



CATALOGO GENERALE 2023





LA NOSTRA STORIA

OUR HISTORY

Krino S.p.A. cresce e si sviluppa nel cuore del Lecchese, luogo con un'antica tradizione nella lavorazione dei metalli. Fondata nel 1982 a Montevecchia, appartiene ad un parco industriale specializzato nella produzione di utensili da taglio per utilizzi professionali e hobbistici, affermandosi presto sul mercato. Lo sviluppo delle attività ha portato alla costruzione di un nuovo insediamento industriale a Monticello Brianza, contribuendo all'espansione della produzione delle linee di utensili, mantenendo alti standard qualitativi made in Italy nel pieno rispetto della sensibilità ambientale.

Krino S.p.A. was born and established in the heart of the Lecco area, a place with an ancient tradition in metalworking. Founded in 1982 in Montevecchia, it belongs to an industrial park specializing in the production of cutting tools for professional and hobbyist uses, soon establishing itself on the market. The development of activities led to the construction of a new industrial site in Monticello Brianza, contributing to the expansion of the production of tool lines, maintaining high quality standards made in Italy while fully respecting environmental sensitivity.



VISIONE

VISION

La capacità di prevedere cosa accadrà e cosa potrebbe accadere: il nostro marchio si è reinventato negli anni, prestando particolare attenzione a richieste del mercato e dei clienti, sempre in anticipo sui tempi.

The ability to predict what will happen and what might happen: our brand has reinvented itself over the years, paying special attention to market and customer demands, always ahead of its time.

MISSIONE

MISSION

Da sempre siamo attenti a fornire ai clienti tutte le informazioni di cui hanno bisogno, il valore della nostra offerta è determinato dall'accurata ricerca di prodotti che soddisfano elevati standard di eccellenza e affidabilità.

We have always been careful to provide customers with all the information they need; the value of our offerings is determined by the careful search for products that meet high standards of excellence and reliability.

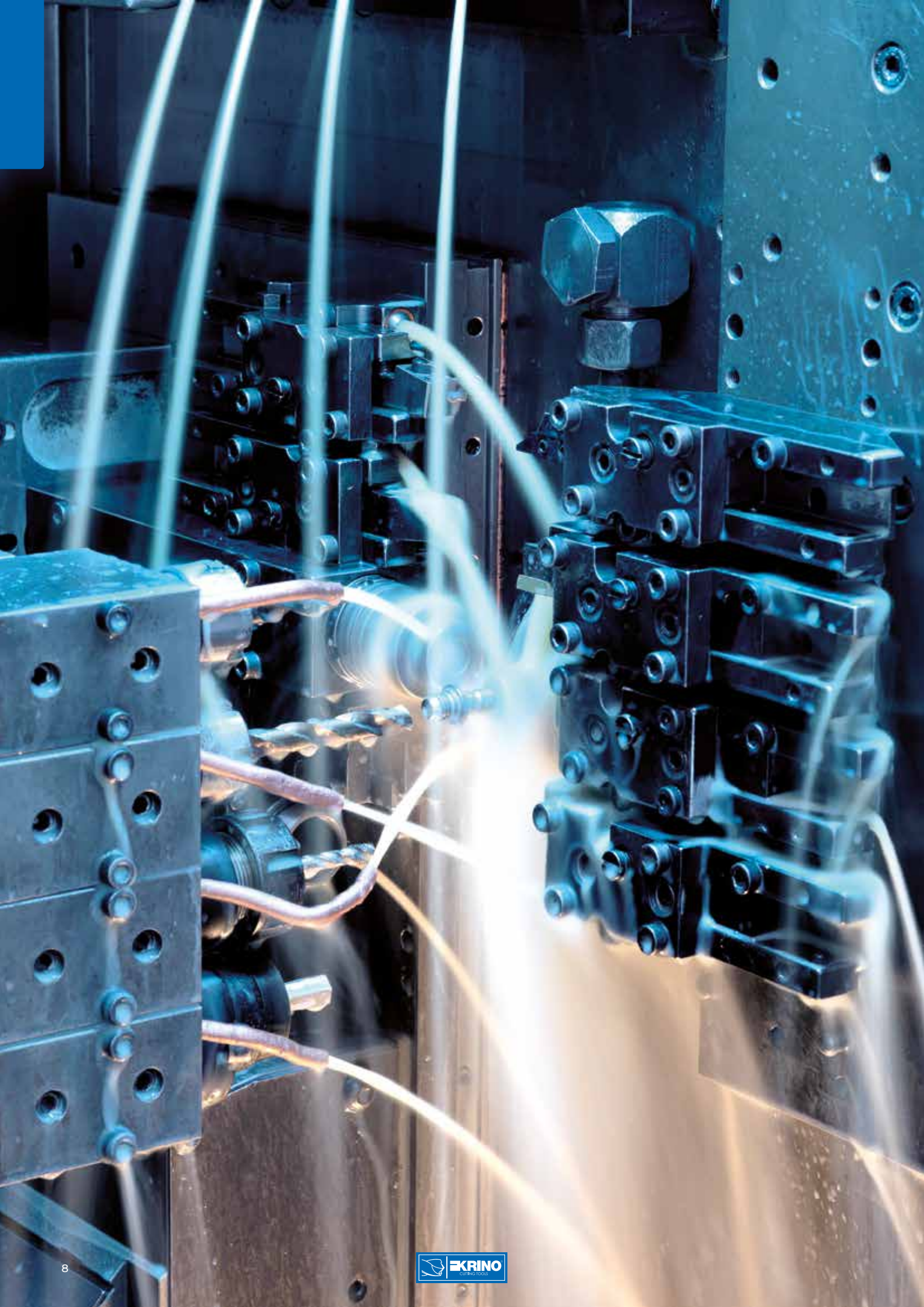
VALORI

VALUES

I nostri prodotti e la nostra azienda sono il riflesso delle nostre azioni e idee imprenditoriali. Costantemente orientati al miglioramento, ma fortemente legati alle nostre convinzioni, l'essenza di Krino deriva dall'integrità delle nostre azioni quotidiane.

Our products and our company are a reflection of our entrepreneurial actions and ideas. Constantly striving for improvement, yet strongly attached to our beliefs, the essence of Krino comes from the integrity of our daily actions.





PRODUZIONE, AUTOMAZIONE, INNOVAZIONE, FORMAZIONE

PRODUCTION, AUTOMATION, INNOVATION, TRAINING

La Brianza, ha un'antichissima tradizione nella lavorazione dei metalli, nucleo di un potente sviluppo artigianale e, poi, industriale. La specializzazione è elevata, e ogni impresa ha una sua propria identità produttiva: lavorazione del metallo duro così come del superrapido, lavorazioni standard come quelle a disegno.

La Krino è orgogliosa di appartenere a questo parco tecnologico e di continuare questa tradizione, indice riconosciuto della qualità made in Italy. Oltre al catalogo dei prodotti standard a norme ISO, che contempla utensili standard tradizionali per utilizzi professionali ed hobbistici, sino a utensili innovativi e tecnologicamente avanzati per le lavorazioni industriali più difficoltose. Siamo in grado di produrre a richiesta utensili speciali a disegno.

L'esperienza specifica più che trentennale nella produzione degli utensili da taglio in acciaio superrapido dei nostri ingegneri e dei tecnici di laboratorio permettono un'assistenza tecnica qualificata ai nostri clienti in tutte le problematiche che nascono nell'utilizzo industriale e professionale. La formazione del nostro personale è attuata direttamente con corsi specifici, sia all'interno della nostra azienda, così come presso le nostre associazioni di categoria come Confindustria. Corsi di formazione specifici sono inoltre effettuati, all'interno del nostro sito, rivolti alla nostra clientela; l'esperienza è sempre positiva e molto gradita.

Brianza, has an ancient tradition in metalworking, the nucleus of a powerful craft and, later, industrial development. Specialization is high, and each company has its own manufacturing identity: machining of hard metal as well as super-rapid, standard machining as well as those made to drawing.

Krino is proud to belong to this technological park and to continue this tradition, a recognized index of Made in Italy quality. In addition to the catalog of standard products to ISO standards, which contemplates traditional standard tools for professional and hobbyist uses, up to innovative and technologically advanced tools for the most difficult industrial machining. We are able to produce special tools according to drawings on request.

More than thirty years of specific experience in the production of super-rapid steel cutting tools of our engineers and laboratory technicians allow qualified technical assistance to our customers in all problems arising in industrial and professional use. The training of our personnel is implemented directly with specific courses, both within our company, as well as at our trade associations such as Confindustria. Specific training courses are also carried out, within our site, aimed at our customers; the experience is always positive and very welcome.

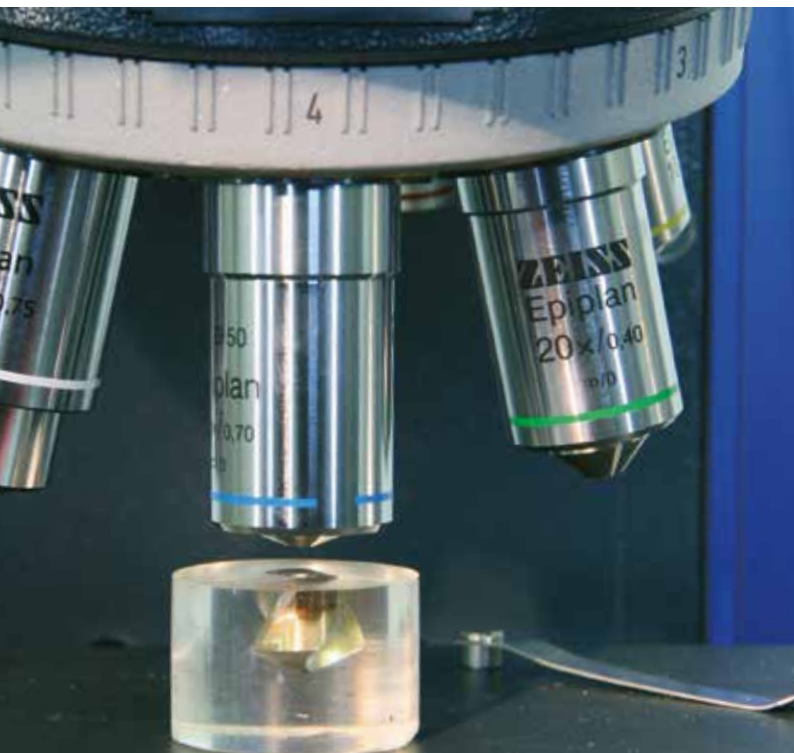
CONTROLLO QUALITÀ

QUALITY CONTROL



L'attrezzato laboratorio di controllo qualità garantisce l'intera produzione dei nostri utensili. Specifici ed accurati controlli metallurgici sugli acciai di produzione europea, effettuati prima e dopo il trattamento termico, assicurano elevate prestazioni degli utensili nella sicurezza più completa.

The modern and very well equipped quality laboratory, guarantees the full production of our cutting tools. Specific and precise tests made on steels, before and after heat treatment, allow high performance totally on safety.



PERSONALIZZAZIONE

CUSTOMIZE

Per raggiungere l'eccellenza nel servizio alla clientela offriamo oggi la possibilità di realizzare set e valigette con contenuti specifici: il nostro parco macchine si è infatti ampliato con una fresatrice taglia spugne che consente la realizzazione di sedi dedicate per l'inserimento di utensili e accessori su esigenza del cliente.

To achieve excellence in customer service we can offer you to create sets and cases with specific contents: our machine fleet has in fact been expanded with a sponge milling machine that allows the creation of dedicated seats for the insertion of tools and accessories on customer's request.



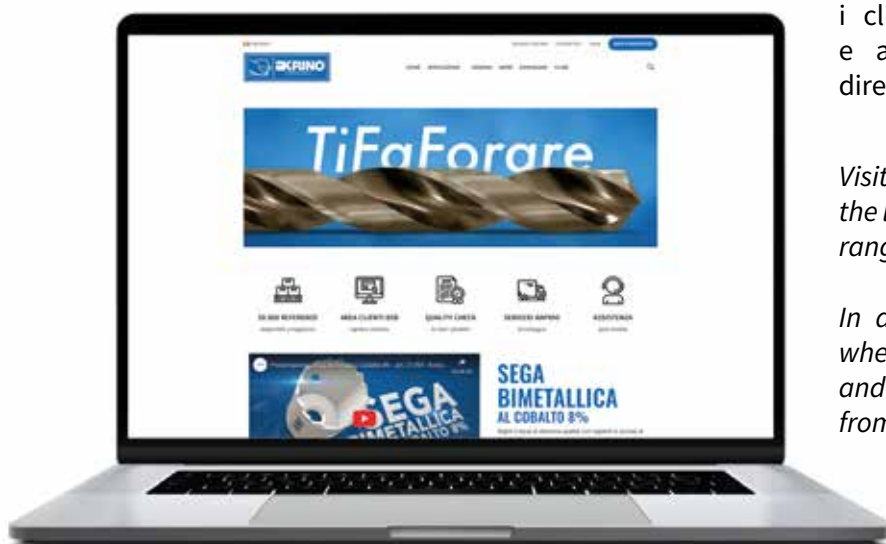
WWW.KRINO.IT

Visita il sito www.krino.it per rimanere aggiornato su tutte le novità di prodotto e scoprire tutta la gamma presente su questo catalogo.

Inoltre, sarà presente un'area riservata, dove i clienti registrati Krino potranno vedere e acquistare i prodotti che desiderano direttamente dal sito.

Visit www.krino.it to keep up to date with all the latest product news and discover the entire range featured in this catalog.

In addition, there will be a restricted area where registered Krino customers can view and purchase the products they want directly from the site.



TiFaForare

Krino è presente anche sui social con tutorial, presentazioni di prodotto e tante altre idee, dimostrazione di un'azienda dinamica e al passo coi tempi che non si accontenta dei soliti standard comunicativi.

Krino is also present on social media with tutorials, product presentations and many other ideas, demonstration of a dynamic company that isn't satisfied with the usual communication standards.



@KrinoTools



DESCRIZIONE
DESCRIPTION

CODICE FAMIGLIA
CODE

CARATTERISTICHE
FEATURES

APPLICAZIONI
APPLICATIONS

MATERIALE
MATERIAL

DIMENSIONI
DIMENSIONS

CODICE ARTICOLO
ITEM NUMBER

SERIE
SERIE

LISTINO PREZZI
PRICE LIST

**PUNTE ELICOIDALI AL COBALTO 8%,
ESECUZIONE INTERAMENTE RETTIFICATA SERIE CORTA**
Cobalt twist drills ground from the solid

0T120 **HSS-CO 8%** **DIN 338 RETTIFICATA**
Ground from the solid

Serie corta
Short serie

130° WZF
ASIMET
HE J 90°-90°
SPLIT POINT
DN 141°C
SPL 3 mm

Confezione
Packaging

Ø	L	g	gca.	cod.	€
3.2	3	18	30	011200130	6,776
3.5	4	19	30	011200135	6,776
4.0	5	20	30	011200140	6,776
4.5	5	20	30	011200145	6,776
5.0	6	22	30	011200150	5,203
5.5	7	24	30	011200155	5,203
6.0	7	24	30	011200160	5,203
6.5	8	26	30	011200165	5,203
7.0	9	28	30	011200170	5,203
7.5	9	28	30	011200175	5,203
8.0	10	30	30	011200180	5,203
8.5	11	30	30	011200185	5,203
9.0	11	32	30	011200190	5,203
9.5	11	32	30	011200195	5,203
10.0	12	34	30	011200200	2,544
11.0	14	36	30	011200110	2,807
12.0	16	38	30	011200120	2,807
13.0	18	38	30	011200130	2,807
14.0	19	40	30	011200140	2,807
15.0	19	40	30	011200150	2,544
16.0	20	43	30	011200160	2,807
17.0	20	43	30	011200170	2,807
17.5	21	46	30	011200175	2,807
18.0	21	46	30	011200180	2,807
19.0	22	46	30	011200190	2,807
20.0	24	49	30	011200200	2,544
21.0	24	49	30	011200210	2,958
22.0	27	53	30	011200220	2,958
23.0	27	53	30	011200230	2,958
24.0	27	53	30	011200240	2,958
25.0	30	57	30	011200250	2,898
26.0	30	57	30	011200260	2,958
27.0	33	61	30	011200270	2,958
27.5	33	61	30	011200275	2,958
28.0	33	61	30	011200280	2,958
29.0	33	61	30	011200290	2,958
30.0	33	61	30	011200300	2,688
31.0	36	65	30	011200310	3,764
32.0	36	65	30	011200320	3,764
33.0	36	65	30	011200330	3,764
34.0	39	70	30	011200340	3,764
35.0	39	70	30	011200350	4,435
36.0	39	70	30	011200360	4,435
37.0	39	70	30	011200370	4,435
37.5	40	70	30	011200375	4,435
38.0	40	70	30	011200380	4,435
39.0	40	70	30	011200390	4,435
40.0	43	75	30	011200400	3,764
41.0	43	75	30	011200410	4,736
42.0	43	75	30	011200420	4,736
42.5	43	75	30	011200425	4,736
43.0	47	80	30	011200430	4,736
44.0	47	80	30	011200440	4,736
45.0	47	80	30	011200450	4,332
46.0	47	80	30	011200460	5,038
47.0	47	80	30	011200470	5,038
47.5	47	80	30	011200475	5,038
48.0	51	86	30	011200480	5,038
49.0	52	86	30	011200490	5,038
50.0	52	86	30	011200500	4,572

Ø g 1400 N/mm²

Applicazioni
Applications

- Acciaio
- Acciaio inox
- Acciaio dolce
- Acciaio duro
- Acciaio inossidabile

Acc. ØT120 Self
Drill bits in series (Professional)

Conte percentuale di Cobalto (e Molibdeno) rende questa punta particolarmente resistente alle sollecitazioni meccaniche e termiche e, pertanto, è adatta alle lavorazioni dell'acciaio inox e degli acciai resistenti al calore. In tutti gli acciai (acciai legati e delle leghe molto tenaci) (Acciaio al Ni-Cr, Hastelloy, Inconel, Inconel).






















































High performances in cutting stainless steel alloy steel up to R_m 1400 N/mm².

IKRINO

La struttura schematica della pagina rende la consultazione del catalogo rapida ed immediata anche grazie alla fotografia del prodotto, corredata da codici specifici, dimensioni, caratteristiche, confezionamento base e norme d'impiego. L'operatore è facilitato nell'impiego degli utensili da simboli molto semplici che specificano le effettive capacità e modalità d'uso.

The catalogue is easy to consult, every page has item number, features, packaging and applications to the left side. To the right side appear: size, dimensions, code and gross price. The operator is helped to the tool choice by simple icons showing the real products purpose

LEGENDA Legenda

 Metalli Metals	 Acciaio Steel	 Inox Stainless	 Alluminio Aluminum
 Leghe leggere Light alloys	 Muro Masonry	 Calcestruzzo Concrete	 Pietra Natural Stones
 Piastrina standard Standard tile	 Ferro Iron	 Plastica Plastic	 Bronzo Bronze
 Ghisa Cast Iron	 Legno Wood	 Pallet	 Truciolato Chipboard
 Multistrato Multilayer	 Multistrato Multilayer	 Legno /chiodi Wood /nails	 Legno vivo Green wood
 Sandwich Sandwich	 Pelli Leather	 GFRP	 Plexiglass
 Tegole Tiles	 Vetro Glass	 Cartone Carton	
 Mattone Brick	 Grès porcellanato Porcelain stoneware	 Grès smaltato Glazed stoneware	 Grès Stoneware
 Marmo Marble	 Granito Granite	 Rame Copper	 Moquette
 Truciolato lungo Long chip	 Truciolato corto Short chip		
 Olio Oil	 Emulsione Lubrificant	 Percussione Rotary percussion	 No Percussione Rotary cut
 Acqua Water	 No Acqua No water	 Trapano Drill	 Avvitatore Screwdriver
 SDS Plus	 SDS Max	 Magnetico Magnetic	 A colonna Drill press
 Reversibile Reversible	 Migliore qualità Top quality	 Su richiesta On demand	 In esaurimento Running out

LAVORARE IN SICUREZZA Safety works



Notevole e costante cura è stata dedicata alla costruzione dei nostri utensili, una qualità che significa massima efficienza ed, insieme totale sicurezza per gli utilizzatori. Rendimenti elevati si ottengono solo con un corretto utilizzo dell'utensile. Per questo motivo, invitiamo ad una scelta appropriata dell'utensile, prima di intraprendere una qualsiasi operazione di taglio, avvalendosi delle informazioni specifiche contenute nel catalogo, sulle confezioni dei prodotti e della consulenza tecnica diretta dei tecnici aziendali. Un corretto utilizzo significa anche e soprattutto usare sempre tutte le protezioni di sicurezza individuali richieste dallo specifico lavoro. La vostra salute è un bene prezioso, difendetela.

A special care has been dedicated during the production of our tools, quality means perfect working order and total safety for the hand users. High performance are possible only with the right use of the tools. For this reason we invite you, before starting with any kind of cutting operation to choose the right tool thanks to the information given by this catalogue or on the products packaging and, when necessary directly from our technical staff. Always use the individual safety protections required by the specific work. Your health is precious, protect it!



UTENSILI PER IL TAGLIO DEI METALLI METAL CUTTING TOOLS

Pagina
Page

26-145

PUNTE PER IL TAGLIO DEI METALLI
Metal cutting twist drills



Pagina
Page

146-237

UTENSILI CONICI, FRESE E SEGHE A TAZZA
PUNTE A GRADINO E SVASATORI
*Conical drill bits, hole cutters and hole saws
subland twist drills and countersinks*



Pagina
Page

238-409

MASCHI E FILIERE
Taps and dies



Pagina
Page

410-495

ALESATORI, FRESE FRONTALI,
UTENSILI SALDOBTRASATI, FRESE ROTATIVE
E LAME DA TAGLIO
*Reamers, end mills, brazed tools,
rotary burrs and cutting blades*



UTENSILI DA TAGLIO PER EDILIZIA
BUILDING AND CONSTRUCTION TOOLS



496-553

Pagina
Page

UTENSILI PER MATERIALI EDILI
Building and construction tools

UTENSILI PER IL TAGLIO DEL LEGNO
WOODWORKING TOOLS



554-571

Pagina
Page

UTENSILI PER IL TAGLIO DEL LEGNO
Woodworking tools



UTENSILI PER IL TAGLIO DEI METALLI METAL CUTTING TOOLS

VISIONE D'INSIEME: PUNTE PER METALLO CON CODOLO CILINDRICO
Overview: straight shank twist drills for metal cutting

28

PUNTE ELICOIDALI - SERIE CORTA Twist drills - Short serie

cod.	DIN	material	page
01089	338	HM	30
01093	338	HM HSS	32
01120	338	HSS-CO 8%	34
01122	338 CR 10	HSS-CO 8%	36
01123	338 CR 13	HSS-CO 8%	36
01300	338	HSS-CO 5% TiAIN	38
01305	338	HSS-CO 5% TiAIN	39
01140	338	HSS-CO 5%	42
01139	338	HSS-CO 5%	47
01145	338	HSS-CO 5%	48
01147	338 CR 10	HSS-CO 5%	50
01146	338 CR 13	HSS-CO 5%	51
01157	ANSI B94 inches	HSS-CO 5%	55
01220	338	HSS-G	57
01401	338	HSS-G	59
01320	338 - 118°	HSS-G TiN	60
01160	338	HSS-G TiN	62
01163	338 CR 10	HSS-G TiN	64
01164	338 CR 13	HSS-G TiN	64
01162	ANSI B94 inches	HSS-G TiN	67
01201	338	HSS-G	68
01203	338 CR 10	HSS-G	70
01209	338 CR 13	HSS-G	70
01060	338	HSS-G	72
01062	338 CR 10	HSS-G	74
01063	338 CR 13	HSS-G	75
01090	338	HSS-G	76
01070	338	HSS-G	86
01072	338 CR 10	HSS-G	88
01074	338 CR 13	HSS-G	89
01115	ANSI B94 inches	HSS-G	95
01079	338	HSS-G	94
01066	338 - 118°	HSS-G	96
01350	338	HSS-G	100
01352	338 CR 10	HSS-G	102





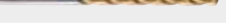

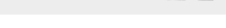
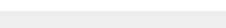
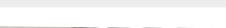


cod.	DIN	material	page
01354	338 CR 13	HSS-G	103
01080	338	HSS-G	106
01082	338 CR 10	HSS-G	108
01084	338 CR 13	HSS-G	108
01001	338	HSS-R	110
01003	338 CR 10	HSS-R	112
01004	338 CR 13	HSS-R	113
01030	ANSI B94 inches	HSS-R	116
01034	ANSI B94 inches	HSS-R	117
01091	338	SPECIAL BRASS	118
01092	338	SPECIAL ALUMINIUM	119

SERIE EXTRA CORTA Extra short serie

cod.	DIN	material	page
01119	1897	HM	31
01126	1897	HSS-CO 8%	37
01307	1897	HSS-CO 5% TiAIN	40
01143	1897	HSS-CO 5%	43
01149	1897	HSS-CO 5%	52
01051	NORMA KRINO	HSS-CO 5%	52
01148	~1897	HSS-CO 5%	53
01166	1897	HSS-G TiN	65
01207	1897	HSS-G	71
01094	1897	HSS-G	77
01095	~1897	HSS-G	79
01067	1897	HSS-G	78
01076	1897	HSS-G	90
01050	NORMA KRINO	HSS-G	91
01077	~1897	HSS-G	92
01022	1897	HSS-G	98
01356	1897	HSS-G	104
01087	1897	HSS-G	109
01018	1897	HSS-R	114



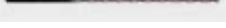

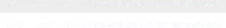
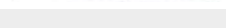






SERIE LUNGA

Long serie

cod.	DIN	material	page
01128 	340	HSS-CO 8%	37
01306 	340	HSS-CO 5% TiAIN	41
01141 	340	HSS-CO 5%	44
01152 	340	HSS-CO 5%	54
01168 	340	HSS-G TiN	66
01208 	340	HSS-G	71
01096 	340	HSS-G	80
01078 	340	HSS-G	93
01358 	340	HSS-G	105
01086 	340	HSS-G	109
01020 	340	HSS-R	115

SERIE EXTRA/SUPER LUNGA

Extra/Super long serie

cod.	DIN	material	page
01376 	1869/1	HSS-CO 5%	45
01377 	1869/2	HSS-CO 5%	45
01378 	1869/3	HSS-CO 5%	46
01370 	1869/1	HSS-G	83
01371 	1869/2	HSS-G	84
01372 	1869/3	HSS-G	84
01098 	1869/1	HSS-G	81
01099 	1869/2	HSS-G	82
01100 	1869/3	HSS-G	82
01129 	NORMA KRINO	HSS-G	83
01105 	NORMA KRINO	HSS-G	85
01114 	NORMA KRINO	HSS-G	85

PARABOLIC









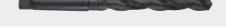


VISIONE D'INSIEME: PUNTE GAMBO RINFORZATO E ATTACCO CONICO MORSE

Overview: reinforced shank twist drills and Morse taper shank

128
















GAMBO RINFORZATO E CONICO MORSE

Reinforced shank twist drills and Morse taper shank

cod.	DIN	material	page
01368 	6537K	HM	130
01366 			131
01369 	6537L	HM	132
01367 			133
01213 	345	HM HSS	134
01150 	345	HSS-CO 5%	136
01097 	345	HSS	138
01028 	341	HSS	140
01088 	1870/1	HSS	142
01069 	341	HSS	141
01025 	345	HSS-R	144

UTENSILI CONICI E A GRADINO

Conical and step drill bits

cod.	DIN	material	page
01182 	-	HSS-G	148
01176 	-	HSS-G C.V.	149
01206 	-	HSS-G TiAIN	150
01200 	-	HSS-G TiN	150
01180 	-	HSS-G	151
01215 	-	HSS-G	151
01248 	-	HSS-G TiAIN	152
01244 	-	HSS-G TiN	152
01240 	-	HSS-G	153
01241 	-	HSS-G	153
01236 	-	HSS-G TiAIN	154
01230 	-	HSS-G TiN	155
01183 	-	HSS-G	155
01239 	-	HSS-G	156
01254 	-	HSS-G	157

TRAPANI A BASE MAGNETICA

Magnetic drills

cod.	page
28011 	160







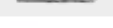
VISIONE D'INSIEME: FRESE E SEGHE A TAZZA

Overview: Hole saws

168

FRESE A CAROTARE

Annular cutter

cod.	material	page
21216 	Weldon TCT	170
21212 	Quick-in® TCT	171
21218 	Weldon TCT	172
21211 	Quick-in HSS-CO 5%	173
21206 	Weldon HSS-CO 5%	174
21207 	Weldon HSS-CO 5%	175
21200 	Weldon HSS-G	176
21202 	Weldon HSS-G	177

FRESE PERFORTRICI

Hole saws

cod.		material	page
21042		TCT	178
21040		TCT	179
21043		TCT	180
21011		HSS-CO 5%	181
21325		HSS-G TiAIN	182
21300		HSS-G TiN	183
21001		HSS-G	184

SEGHE A TAZZA

Bimetal hole saws

cod.		material	page
05078		TCT	187
21100		TCT	186
21105		MD	188
21090		HSS-CO 8% M42	190
21058		HSS M3	195
21060		HSS M3	196
21061		HSS M3	200
21067		HSS M3	201
21070			195 197

BLU-MOL®

21073		HSS-CO 8% M42	204
21065		HSS-CO 8% M42	205
21069		HSS-CO 8% M42	208
26070			209

PUNTE A GRADINO E SVASATORI

Subland twist drills and countersinks

cod.		DIN	material	page
01103		8376 - 180°	HSS-G	214
01059		8376 - 180°	HSS-G	214
01104		8377 - 180°	HSS-G	214
01273		373 - 180°	HSS-G	215
01274		373 - 180°	HSS-G	215
01277		373 - 180°	HSS-G TiAIN	215
01101		8374 - 90°	HSS-G	216
01058		8374 - 90°	HSS-G	216

cod.		DIN	material	page
01102		8375 - 90°	HSS-G	216
01117		8378 - 90°	HSS-G	217
01057		8378 - 90°	HSS-G	217
01272		373 - 180°	HSS-G	217
01110		333/A - 60°	HSS-G	218
01214		333/A - 60°	HSS-G TiN	218
01374		333/A - 60°	HSS-G	218
01375		333/A - 60°	HSS-G	219
01112		333/B 60°/120°	HSS-G	219
01217		333/B 60°/120°	HSS-G TiN	219
01111		333/Raggio	HSS-G	220
01216		333/Raggio	HSS-G TiN	220
01361		90°	HM	221
01363		120°	HM	221
01364		90°	HSS-G	221
01365		120°	HSS-G	221
01264		335/C-90°	HM TiAIN	222
01263		335/C-90°	HM	222
01265		335/C-90° asimmetrico	HSS-G	223
01267		335/C-90° asimmetrico	HSS-CO 5%	224
01266		335/C-90° asimmetrico	HSS-G	224
01262		335/C-90°	HSS-CO 5% TiAIN	225
01261		335/C-90°	HSS-CO 5%	225
01260		335/C-90°	HSS-G TiN	226
01185		335/C-90°	HSS-G	227
19003		335/C-90°	HSS-G	228
19001		335/C-90°	HSS-G	228
01193		335/C-90°	HSS-G	229
01196		335/D-90°	HSS-G	229
01192		335/C-90°	HSS-G	230
01188		90°	HSS-G	230
01197		75°	HSS-G	231
01186		335/C-60°	HSS-G	231
01187		335/C-90°	HSS-G	232
01190		40°	HSS-G	232
01169		≈ 1897	HSS-CO 5% TiN	234
01171		≈ 1897	HSS-CO 5%	234
01179		-	HM TiAIN	235
01173		-	HSS-CO 5% TiN	235
01172		-	HSS-CO 5%	235

INDICE FOTOGRAFICO

Photographic index

cod.	DIN	material	page
01174		HSS-G	236
01175		HSS-G	236
01342		HM	237

VISIONE D'INSIEME: MASCHI A MACCHINA 240
Overview: Machine taps

MASCHI A MACCHINA

Machine taps

cod.	DIN	material	fil/th	p.
10400	371/B	HSS-CO 5% TiAIN	M	244
10401	376/B	HSS-CO 5% TiAIN	M	244
10404	371/C-35°	HSS-CO 5% TiAIN	M	245
10405	376/C-35°	HSS-CO 5% TiAIN	M	245
10350	371/B	HSS-CO 5% TiN	M	246
10351	376/B	HSS-CO 5% TiN	M	246
10354	371/C-35°	HSS-CO 5% TiN	M	247
10355	376/C-35°	HSS-CO 5% TiN	M	247
10362	371/B 376/B	HSS-CO 5% TiN	M	248
10363	371/C-40°	HSS-CO 5% TiN	M	248
10515	371/B 376/B	HSS-CO 5%	M	249
10516	371/C-40° 376/C-40°	HSS-CO 5%	M	250
10504	371/B	HSS-CO 5%	M	251
10505	376/B	HSS-CO 5%	M	251
10506	371C-40°	HSS-CO 5%	M	252
10507	376C-40°	HSS-CO 5%	M	252
10500	371/B	HSS-CO 5%	M	253
10501	376/B	HSS-CO 5%	M	253
10502	371C-40°	HSS-CO 5%	M	254
10503	376C-40°	HSS-CO 5%	M	254
10510	371/A	HSS-CO 5%	M	255
10511	371/C-40°	HSS-CO 5%	M	256
10512	376/C-40°	HSS-CO 5%	M	256
10508	371/C	HSS-CO 5%	M	257
10509	376/C	HSS-CO 5%	M	257
10513	371/C	HSS-CO 5%	M	258
10514	376/C	HSS-CO 5%	M	258
10297	371/B	HSS-CO 5% VAPO	M	259
10298	376/B	HSS-CO 5% VAPO	M	259
10299	371/C-35°	HSS-CO 5% VAPO	M	260
10300	376/C-35°	HSS-CO 5% VAPO	M	260
10250	371/B	HSS-CO 5%	M	261
10253	376/B	HSS-CO 5%	M	261

cod.	DIN	material	fil/th	p.
10251	371/C	HSS-CO 5%	M	262
10254	376/C	HSS-CO 5%	M	262
10256	371/C-15°	HSS-CO 5%	M	263
10258	376/C-15°	HSS-CO 5%	M	263
10255	371/C-35°	HSS-CO 5%	M	264
10257	376/C-35°	HSS-CO 5%	M	264
10291	371/B	HSS-CO 5%	M	265
10292	371/C-35°	HSS-CO 5%	M	265
10340	371/C	HM	M	266
10330	371/C-40°	HSS-CO 5%	M	266
10261	371/B	HSS-CO 5%	M	267
10262	376/B	HSS-CO 5%	M	267
10277	371/B	HSS-CO 5%	M	268
10278	376/B	HSS-CO 5%	M	268
10263	371/C	HSS-CO 5%	M	269
10264	376/C	HSS-CO 5%	M	269
10279	371/C-35°	HSS-CO 5%	M	270
10288	376/C-35°	HSS-CO 5%	M	270
10280	2174	HSS-CO 5%	M	271
10360	2174	HSS-CO 5% TiN	M	271
10281	2174	HSS-CO 5%	M	272
10361	2174	HSS-CO 5% TiN	M	272
10310	371/B - 376/B	HSS-CO 5%	M	273
10313	371/C-35°	HSS-CO 5%	M	273
10311	371/B - 376/B	HSS-CO 5%	M	274
10314	371/C-35° - 376/C-35°	HSS-CO 5%	M	274
10312	371/B - 376/B	HSS-CO 5%	M	275
10315	371/C-35° - 376/C-35°	HSS-CO 5%	M	275
10273	357	HSS-CO 5%	M	276
10290	357	HSS-CO 5%	M	276
10259	374/B	HSS-CO 5%	MF	277
10252	374/C	HSS-CO 5%	MF	278
10260	374/C-35°	HSS-CO 5%	MF	279
10286	374/B	HSS-CO 5%	MF	280
10287	374/C-35°	HSS-CO 5%	MF	281
10268	5156/B	HSS-CO 5%	BSP	282
10276	5156/C	HSS-CO 5%	BSP	282
10267	5156C-35°	HSS-CO 5%	BSP	283
10289	5156/C	HSS-CO 5%	BSP	283

cod.	DIN	material	fil/th	p.
10294	-	HSS-CO 5%	BSPT	284
10265	371/B	HSS-CO 5%	BSW	285
10266	376/B	HSS-CO 5%	BSW	285
10274	371C-35°	HSS-CO 5%	BSW	286
10275	376C-35°	HSS-CO 5%	BSW	286
10293	-	HSS-CO 5%	NPT	287
10308	-	HSS-CO 5%	NPS	288
10309	-	HSS-CO 5%	NPS	288
10306	-	HSS-CO 5%	NPTF	289
10307	-	HSS-CO 5%	NPTF	289
10301	529-2B	HSS-CO 5%	8-UN	290
10269	ANSI B1.1	HSS-CO 5%	UNC	291
10270	ANSI B1.1	HSS-CO 5%	UNC	291
10271	ANSI B1.1	HSS-CO 5%	UNC	292
10272	ANSI B1.1	HSS-CO 5%	UNC	292
10282	ANSI B1.1	HSS-CO 5%	UNF	293
10283	ANSI B1.1	HSS-CO 5%	UNF	293
10284	ANSI B1.1	HSS-CO 5%	UNF	294
10285	ANSI B1.1	HSS-CO 5%	UNF	294
10305	529	HSS-CO 5%	UNEF	295
10162	371/B	HSS-G	M	296
10165	376/B	HSS-G	M	296
10168	371/C	HSS-G	M	297
10171	376/C	HSS-G	M	297
10174	371/C-15°	HSS-G	M	298
10177	376/C-15°	HSS-G	M	298
10183	371/C-35°	HSS-G	M	299
10180	376/C-35°	HSS-G	M	299
10172	529/B	HSS-G	M	300
10173	529/C-35°	HSS-G	M	300
10230	-	HSS-G TIN	M	301
10212	-	HSS-G	M	301
10210	-	HSS-G	M	302
10198	374/C-15°	HSS-G	MF	302
10204	374/C-15°	HSS-G	BSP	303
10139	-	HSS-G	BSPT	303
10134	ANSI B2.1	HSS-G	NPT	303




VISIONE D'INSIEME: MASCHI A MANO
Overview: Hand taps

MASCHI A MANO
Machine taps

cod.	DIN	material	fil/th	p.
10147	352	HSS-CO 5% VAPO	M	308
10144	352	HSS-CO 5%	M	308
10146	2181	HSS-CO 5%	MF	309
10148	5157	HSS-CO 5%	BSP	309
10155	352	HSS-G TIN	M	311
10100	352	HSS-G	M	310
10100	352	HSS-G	M	310
10102	352	HSS-G	M	311
10105	2181	HSS-G	MF	312
10105	2181	HSS-G	MF	312
10107	2181	HSS-G	MF	314
10115	5157	HSS-G	BSP	315
10117	5157	HSS-G	BSP	315
10139	-	HSS-G	BSPT	303
10112	2181	HSS-G	BSF	316
10110	352	HSS-G	BSW	317
10111	352	HSS-G	BSW	317
10134	ANSI B2.1	HSS-G	NPT	303
10120	352	HSS-G	UNC	319
10122	352	HSS-G	UNC	319
10125	2181	HSS-G	UNF	320
10127	2181	HSS-G	UNF	320
10136	40432	HSS-G	Pg	321
10612	ISO 1/4 H	HSS-G	M + MF	405
10617	-	HSS-G	BSP	406
10616	-	HSS-G	BSF	406
10615	-	HSS-G	BSW	406
10613	-	HSS-G	UNC	406
10614	-	HSS-G	UNF	406
10620	-	HSS-G	M + MF	405
10001	4535	C.V.	M	322
10001	4535	C.V.	M	322
10030	357	C.V.	M	323
10003	4535	C.V.	M + MF	324
10003	4535	C.V.	MF	324
10015	338	C.V.	BSP	326
10017	6125	C.V.	BSPT	326
10012	2709	C.V.	BSF	326
10010	2709	C.V.	BSW	327

INDICE FOTOGRAFICO

Photographic index

cod.	DIN	material	fil/th	p.
10032 	ANSI B2.1	C.V.	NPT	327
10020 	ANSI B1.1	C.V.	UNC	328
10025 	ANSI B1.1	C.V.	UNF	329






























VISIONE D'INSIEME: FILIERE










Overview: round dies

332

FILIERE

Round dies

cod.	DIN	material	fil/th	p.
12144 	223	HSS-CO 5%	M	334
12146 	223	HSS-CO 5%	MF	334
12148 	5158	HSS-CO 5%	BSP	335
12165 	223	HSS-G TIN	M	336
12060 	223	HSS-G	M	337
12062 	223	HSS-G	M	338
12067 	-	HSS-G TIN	M	339
12066 	-	HSS-G	M	339
12094 	382	HSS-G	M	340
12165 	223	HSS-G	MF	336
12065 	223	HSS-G TIN	MF	342
12072 	223	HSS-G	MF	344
12066 	-	HSS-G	MF	339
12069 	223	HSS-G	MF	346
12096 	382	HSS-G	MF	347
12075 	5158	HSS-G	BSP	348
12077 	5158	HSS-G	BSP	348
12098 	382	HSS-G	BSP	349
12089 	352	HSS-G	BSPT	350
12087 	223	HSS-G	BSF	350
12070 	223	HSS-G	BSW	351
12088 	223	HSS-G	BSW	351
12091 	-	HSS-G	NPT	352
12080 	223	HSS-G	UNC	352
12082 	223	HSS-G	UNC	353
12085 	223	HSS-G	UNF	353
12086 	223	HSS-G	UNF	354
12079 	223	HSS-G	UNEF	354
12093 	40434	HSS-G	Pg	355

cod.	DIN	material	fil/th	p.
12001 	223	C.V.	M	356
12005 	223	C.V.	MF	357
12015 	223	C.V.	BSP	358
12017 	223	C.V.	BSPT	358
12012 	223	C.V.	BSF	359
12010 	223	C.V.	BSW	359
12032 	223	C.V.	NPT	360
12020 	223	C.V.	UNC	360
12025 	223	C.V.	UNF	361

cod.	DIN	page
15001 	1814	364
15003		
15010 	-	365
15011		
15005 	-	366
15006		
15037 	225	368
15032		369
15035		
15030		
10065 	-	371
SET 	-	HSS-G 373
SET 	-	C.V. 152
10600 		395
10605		396
10631		397
10606		401
10625		402
10612 		405
10620		
10613		
10615		
10614		
10616		
10617		
10618		

ALESATORI, FRESE E UTENSILI SALDOBRASATI

Reamers, mills and brazed tools

cod.		DIN		page
29020		212/2B	HSS-CO 5%	412
29021		212/2C		413
29026		208/B	HSS-CO 5%	414
29039		311	HSS-G	414
29040		219B	HSS-G	415
29001		206B	HSS-G	416
29006		859/B	HSS-G	417
29005				
29010		9B	HSS-G	418

cod.				page
24150			HM	419
24152			HM TiAIN	
24151				
24153				
24161			HM	420
24163			HM TiAIN	
24162				
24164				
24181				421
24184				
24165			HM	
24167			HM TiAIN	
24166				422
24168				
24183				
24182				
24169			HM	424
24171			HM TiAIN	
24170				
24172				
24174				425
24175				
24177			HM	
24185			HM TiAIN	
24178				426
24186				
24176				
24154		Alu	HM	
24155				
24180		Alu	HM	429
24156				
24157			HM	430
24159			HM TiAIN	
24158				
24160				
24179				431
24001			HSS-CO 8%	
24003			HSS-CO 8% TiAIN	
24002				
24004				432
24009			HSS-CO 8%	
24011			HSS-CO 8% TiAIN	
24010				
24012				433
24013			HSS-CO 8%	
24015			HSS-CO 8% TiAIN	
24014				
24016				434
24017			HSS-CO 8%	
24019			HSS-CO 8% TiAIN	
24018				
24020				435
24017			HSS-CO 8%	
24019			HSS-CO 8% TiAIN	
24018				

cod.				page
24021			HSS-CO 8%	436
24023			HSS-CO 8% TiAIN	
24022				
24024				
24005			HSS-CO 8%	437
24007			HSS-CO 8% TiAIN	
24006				
24008				
24025			HSS-CO 5%	438
24026				
24029			HSS-CO 5%	439
24030			HSS-CO 5%	439
26100		Alu	HSS-G	439
28200				440
28202				
28204				
28206				
28208				
28210				
28212				
28214				444
28216				
28218				
28220				
28224				
28226				
28212				
26150			HSS-CO 10%	445
26152				
26154				
26015			HM	448
26033			HM TiAIN	
26016				459
26027				
26028				
26026				
26001			HSS-G	460
26003				

LAME DA TAGLIO

Cutting blades

cod.		DIN		page
27001		~UNI 4012	HSS-G VAPO	464
27002				
27003				
27011		~UNI 4012	HSS-CO 5% VAPO	464
27012				
27013				
27050			HM	465
27055				
27060			HM	466
27070				
26125			HM HSS-CO 8% HSS-CO 5%	468
25018			ASP	469
25011			BIM M42	470
25016		Dente rinforzato	BIM M42	471
25010			BIM M42	472

INDICE FOTOGRAFICO

Photographic index

cod.			page
23620		Attacco BOSCH®	475
23600			476
23610			477
23630			478
23710		Attacco BLACK&DECKER®	479
23720			479
23700			480
23810		Attacco universale SABRE®	482
23815			483
23800			484
23820			485
23001			486
23010			487
23005			487
23405		Starlock®	489
23410			490
23415			491
23400			492
23505		Quick Change Universal	493
23510			494
23515			494
23500			495
23529			495



UTENSILI DA TAGLIO PER EDILIZIA

BUILDING AND CONSTRUCTION TOOLS

VISIONE D'INSIEME: PUNTE PER MURO CON CODOLO CILINDRICO
Overview: Masonry drills with Straight shank 498

PUNTE PER MURO CON CODOLO CILINDRICO

Masonry drills with Straight shank

cod.	L		page
03043		Serie corta GRESMASTER	501
03042		Serie corta GRES+	503
03110		Serie corta Super Granit	504
03112	L = 150 ÷ 250		
03100		Serie corta Extreme hard cut	505
03072		Serie corta K-MAX4	506
03069	L = 150 ÷ 250 L = 300 ÷ 400	Serie corta SDD UNIVERSALE	507
03060		Serie corta SUPERIOR	508
03063	L = 150 ÷ 200		
03065	L = 400		
03067	L = 600		
03059		Serie corta SUPERIOR	509
03052		Serie corta STANDARD PLUS	510
03053	L = 150 ÷ 200		
03054	L = 400		
03051	L = 600		
03001		Serie corta STANDARD	512
03005	L = 200		
03009	L = 300		513
03011	L = 400		
03015	L = 600		
03076		Serie corta MULTI	514
03077		Serie corta MULTI	515

cod.	DIN	page
03080	Serie corta L = 250 Foratutto	516
03082		
03089	Serie corta Foratutto	517
03140	Serie corta VETRO E CERAMICA	517

VISIONE D'INSIEME: PUNTE PER MURO CON ATTACCO SDS
Overview: Masonry drills with SDS shank 518

PUNTE PER MURO CON ATTACCO SDS




Masonry drills with SDS shank

cod.	L		page
03169		SDS- PLUS HAMMER	520
03167		SDS- PLUS Speedmaster 4x4	522
03152		SDS- PLUS SDSlite	525
03156		SDS- PLUS K-8	526
03160		SDS- PLUS K4 SUPERPRO	528
03155		SDS- PLUS STANDARD	530
03171		SDS-MAX GRANDI DIAMETRI DA 45 A 80 mm	532
03170		SDS-MAX SUPER PRO	533
03172		SDS-PLUS SDS-MAX DUST FREE	534

cod.		page
21120	Conico 1:8	536
21122	Filetto con molla With spring	537
21110		M16
21111		M22
21015		MD Carbide tip 540
21105		MD Carbide grit 188
21108		189
21106		M14 542
03122		Keramaster Plus 543
03117		Keramaster 544

INDICE FOTOGRAFICO

Photographic index

cod.		page
21104	 Keramaster	544
03125		546
03121		547
03405 03400 03410 03515		548
03221 03220 03222	 SDS-PLUS	QUALITÀ PREMIUM ALTA QUALITÀ QUALITÀ STANDARD 550
03210 03212	 SDS-MAX	ALTA QUALITÀ QUALITÀ STANDARD 552

cod.		DIN	Material	page
05063			C.V.	567
05058 05060			C.V.	568
05077			C.V.	568
05076			C.V.	569
05440			C.V.	569
05072 05070			C.V.	569
05080			C.V.	570
05400 05430			C.V.	571














ACCESSORI

ACCESSORIES



UTENSILI PER TAGLIO DEL LEGNO

WOODWORKING TOOLS

cod.	L	Material	page
05054		C.V.	556
05200	 Serie corta	HSS	556
05210 05212	 L = 245 L = 400	C.V.	557
05001 05020 05025	 Serie corta L = 245 L = 400	C.V.	558 559
05009	 HEX 1/4"	C.V.	559
05035 05036 05040 05042 05044	 L = 155 L = 235 L = 300 L = 460 L = 600	C.V.	560
05037 05038	 L = 235 L = 460 SDS-PLUS	C.V.	561
05030 05033	 L = 400 L = 600	C.V.	562 563
05045 05048	 L = 150÷160 L = 400	C.V.	564 565
05046		C.V.	564
05050		C.V.	565
05065		C.V.	566
05067		C.V.	566

cod.		page
28031 28051 28007 28009 28053 28055 28054 28058	 Mandrini autoserranti per elettroutensili	574 575
28004 28007 28009 28001 28002 28003	 Mandrini a cremagliera	576 577
28035 28034 28032 28030	 Mandrini per trapani a colonna	578 579
28186 03184 20010	 Raccordi di adattamento per mandrini	580
28160 28165	 Attacchi conici Morse per mandrini	581
28150 28154	 Bussole di riduzione per coni Morse	582
28158	 Estrattori per utensili con cono Morse	583
41004 28020	 Pasta lubrificante Olio da taglio	583





PUNTE PER TAGLIO DEI METALLI

TWIST DRILLS FOR METAL CUTTING

VISIONE D'INSIEME: PUNTE PER METALLO CON CODOLO CILINDRICO

Overview: straight shank twist drills for metal cutting

MATERIALE MATERIAL	RIVESTIMENTO COATING	AFFILATURA SHARPENING	ELICA HELIX ANGLE	IMMAGINE IMAGE	TITANIO E SUPERLEGHE TiAlN SUPERALLOY	INOX STAINLESS STEEL	ACCIAIO STEEL <1400 N/mm	ACCIAIO STEEL <900 N/mm	ACCIAIO STEEL <700 N/mm	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINUM AND ALLOYS	R _{sN} /mm ²
HM	-	120°	27°		✓	✓	✓	✓	✓	✓	✓	1400
HM HSS	-	115°	27°		✓	✓	✓	✓	✓	✓	✓	1400
Co8% AISI M42	-	130°	27°			✓	✓	✓	✓	✓	✓	1400
Co5% AISI M35	TiAlN	130°	27°			✓	✓	✓	✓	✓	✓	1300
	TiAlN	130°	35°			✓	✓	✓	✓	✓	✓	1300
	-	130°	35°			✓	✓	✓	✓	✓	✓	1200
	-	130°	36°			✓	✓	✓	✓	✓	✓	1200
	-	130°	27°			✓	✓	✓	✓	✓	✓	1200
HSS-G AISI M2	-	130°/90°	27°			✓	✓	✓	✓	✓	✓	900
	-	Step Geometry	27°			✓	✓	✓	✓	✓	✓	900
	TiN	118°	27°			✓	✓	✓	✓	✓	✓	900
	TiN	130°	27°			✓	✓	✓	✓	✓	✓	900
	-	130°	27°			✓		✓	✓	✓	✓	850
	-	130°	27°					✓	✓	✓	✓	800
	-	130°	27°					✓	✓	✓	✓	800
	-	118°	27°					✓	✓	✓	✓	800
HSS-G	-	130°	27°						✓	✓	✓	700
	-	130°	27°						✓	✓	✓	650
HSS-R	-	118°	27°						✓	✓	✓	650
SPECIAL	-	118°	20°							✓		650
	-	135°	35°								✓	650



	COD.	01089			01119														
		p.30			p.31														
	COD.	01093																	
		p.32																	
	COD.	01120	01122	01123	01126			01128											
		p.34	p.36	p.36	p.37			p.37											
	COD.	01300																	
		p.38																	
	COD.	01305			01307			01306											
		p.39			p.40			p.41											
	COD.	01140			01143			01141	01376 - 01377 01378										
		p.42			p.43			p.44	p.45-46										
	COD.	01139																	
		p.47																	
	COD.	01145	01147	01146	01149	01051	01148	01152										01157	
		p.48	p.50	p.51	p.52	p.52	p.53	p.54										p.55	
	COD.	01220																	
		p.57																	
	COD.	01401																	
		p.59																	
	COD.	01320																	
		p.61																	
	COD.	01160	01163	01164	01166			01168											01162
		p.62	p.64	p.64	p.65			p.66											p.67
	COD.	01201	01203	01209	01207			01208											
		p.68	p.70	p.70	p.71			p.71											
	COD.	01060 01090 sx	01062	01063	01094 01067 sx		01095	01096	01098 - 01099 01100	01129 01105 - 01114									
		p.72-76	p.74	p.75	p.77 - 78		p.79	p.80	p.81 - 82	p.83 - 85									
	COD.	01070	01072	01074	01076	01050	01077	01078					01079 - 10211						01115
		p.86	p.88	p.89	p.90	p.91	p.92	p.93					p.94						p.95
	COD.	01066			01022														
		p.96			p.98														
	COD.	01350	01352	01354	01356			01358											
		p.100	p.102	p.103	p.104			p.105											
	COD.	01080	01082	01084	01087			01086											
		p.106	p.108	p.108	p.109			p.109											
	COD.	01001	01003	01004	01018			01020										01030	01034
		p.110	p.112	p.113	p.114			p.115										p.116	p.117
	COD.	01091																	
		p.118																	
	COD.	01092																	
		p.119																	

PUNTE ELICOIDALI CILINDRICHE IN METALLO DURO INTEGRALE PER CENTRI DI LAVORO CNC

Tungsten carbide drill bits for CNC

01089

VHM

≈ **DIN 338** **METALLO DURO**
Carbide

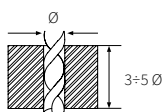
Serie corta
Short serie



W 27°



≤ 5 d



3=5 Ø

R ≤ 1400 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Emulsione
Lubrificant

Taglio di ghisa, acciai duri
al manganese, bronzi e
metalli abrasivi, plastiche
rinforzate con fibre.

Suitable for cutting into
cast iron.

Confezione
Packaging



Ø h7	l	L	pcs.	cod.	€ cad/each	Ø h7	l	L	pcs.	cod.	€ cad/each
1	12	34	1	010890100	8,477	5,9	57	93	1	010890590	54,606
1,1	14	36	1	010890110	9,824	6	57	93	1	010890600	52,396
1,2	16	38	1	010890120	10,251	6,1	63	101	1	010890610	63,150
1,3	16	38	1	010890130	9,968	6,2	63	101	1	010890620	62,865
1,4	18	40	1	010890140	9,901	6,3	63	101	1	010890630	63,499
1,5	18	40	1	010890150	9,397	6,4	63	101	1	010890640	67,913
1,6	20	43	1	010890160	9,540	6,5	63	101	1	010890650	66,348
1,7	20	43	1	010890170	10,393	6,6	63	101	1	010890660	67,772
1,8	22	46	1	010890180	10,471	6,7	63	101	1	010890670	68,845
1,9	22	46	1	010890190	10,612	6,8	69	109	1	010890680	76,249
2	24	49	1	010890200	14,096	6,9	69	109	1	010890690	87,774
2,1	24	49	1	010890210	15,168	7	69	109	1	010890700	76,391
2,2	27	53	1	010890220	16,232	7,1	69	109	1	010890710	78,733
2,3	27	53	1	010890230	16,023	7,2	69	109	1	010890720	87,563
2,4	30	57	1	010890240	17,874	7,3	69	109	1	010890730	88,779
2,5	30	57	1	010890250	18,302	7,4	69	109	1	010890740	86,784
2,6	30	57	1	010890260	19,014	7,5	69	109	1	010890750	85,569
2,7	33	61	1	010890270	21,500	7,6	75	117	1	010890760	98,602
2,8	33	61	1	010890280	20,930	7,7	75	117	1	010890770	99,313
2,9	33	61	1	010890290	20,930	7,8	75	117	1	010890780	96,390
3	33	61	1	010890300	20,787	7,9	75	117	1	010890790	97,670
3,1	36	65	1	010890310	23,634	8	75	117	1	010890800	94,757
3,2	36	65	1	010890320	22,857	8,1	75	117	1	010890810	110,912
3,3	36	65	1	010890330	22,857	8,2	75	117	1	010890820	109,850
3,4	39	70	1	010890340	25,278	8,3	75	117	1	010890830	110,705
3,5	39	70	1	010890350	25,059	8,4	75	117	1	010890840	110,845
3,6	39	70	1	010890360	26,909	8,5	75	117	1	010890850	107,430
3,7	39	70	1	010890370	27,129	8,6	81	125	1	010890860	140,674
3,8	43	75	1	010890380	29,122	8,7	81	125	1	010890870	129,071
3,9	43	75	1	010890390	29,613	8,8	81	125	1	010890880	128,216
4	43	75	1	010890400	30,120	8,9	81	125	1	010890890	130,986
4,1	43	75	1	010890410	30,547	9	81	125	1	010890900	124,942
4,2	43	75	1	010890420	30,469	9,1	81	125	1	010890910	132,269
4,3	47	80	1	010890430	34,313	9,2	81	125	1	010890920	143,374
4,4	47	80	1	010890440	34,390	9,3	81	125	1	010890930	142,169
4,5	47	80	1	010890450	35,452	9,4	81	125	1	010890940	144,086
4,6	47	80	1	010890460	35,670	9,5	81	125	1	010890950	139,180
4,7	47	80	1	010890470	36,591	9,6	87	133	1	010890960	155,477
4,8	52	86	1	010890480	41,716	9,7	87	133	1	010890970	154,622
4,9	52	86	1	010890490	42,790	9,8	87	133	1	010890980	150,777
5	52	86	1	010890500	41,433	9,9	87	133	1	010890990	154,051
5,1	52	86	1	010890510	47,500	10	87	133	1	010891000	147,646
5,2	52	86	1	010890520	45,351	10,2	87	133	1	010891020	174,413
5,3	52	86	1	010890530	45,781	10,5	87	133	1	010891050	172,703
5,4	57	93	1	010890540	51,114	10,8	94	142	1	010891080	205,598
5,5	57	93	1	010890550	49,765	11	94	142	1	010891100	200,544
5,6	57	93	1	010890560	51,541	11,5	94	142	1	010891150	220,258
5,7	57	93	1	010890570	54,956	12	101	151	1	010891200	248,241
5,8	57	93	1	010890580	53,249						

Caratteristiche del metallo duro Features of hard metal

Il metallo duro è un prodotto sinterizzato costituito principalmente da WC e Co in proporzioni variabili. Da questa proporzione dipendono le caratteristiche specifiche dell'utensile: la qualità a grana fine K20 che usiamo per i nostri prodotti è composta dal 94% di WC e dal restante 6% di Co e presenta una resistenza a rottura di 2200 MPa e una durezza di 91.9 HVA. Tale prodotto è caratterizzato da un'ottima resistenza a usura e da una discreta resistenza a flessione anche se, naturalmente, si consiglia di evitare qualsiasi urto o eccessivo sforzo flettente. Vista l'elevata durezza, l'utensile è infatti discretamente fragile e sensibile a condizioni di lavoro non omogenee. Si consideri poi che il metallo duro è mediamente rigido il doppio rispetto all'acciaio superrapido: pertanto, con punte in metallo duro, si producono di norma fori molto più cilindrici.

The hard metal is produced by sintering of WC and Co powders. The main features of the product depend on the content of these 2 components: we chose K20 fine grain type, which means 94% WC and 6% Co, with 2200 MPa resistance and 91.9 HVA hardness. This product has an excellent wear resistance and a good bending resistance. By the way, it's recommended to avoid any accidental crash, because the product is very hard and thus fragile. The hard metal stiffness is quite double comparing to the high speed steel one: you can drill "very cylindrical" holes with an hard metal tool.

PUNTE ELICOIDALI CILINDRICHE IN METALLO DURO INTEGRALE PER CENTRI DI LAVORO CNC

Tungsten carbide drill bits for CNC

OT119

VHM

DIN 1897/6539 METALLO DURO
Carbide

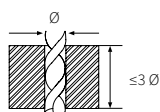
Serie extra corta
Extra short serie



W 27°



≤ 3 d



Confezione
Packaging



R ≤ 1400 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Emulsione
Lubrificant

Taglio di ghisa, acciai duri
al manganese, bronzi e
metalli abrasivi, plastiche
rinforzate con fibre.

Suitable for cutting into
cast iron.

Ø h7	l	L	pcs.	cod.	€ cad/each	Ø h7	l	L	pcs.	cod.	€ cad/each
0,5	6	26	1	011190050	12,153	6	28	66	1	011190600	34,622
0,6	6	26	1	011190060	11,221	6,1	31	70	1	011190610	41,303
0,7	6	26	1	011190070	10,313	6,2	31	70	1	011190620	41,752
0,8	6	26	1	011190080	9,276	6,3	31	70	1	011190630	41,951
0,9	6	26	1	011190090	8,888	6,4	31	70	1	011190640	44,285
1	6	26	1	011190100	6,164	6,5	31	70	1	011190650	43,438
1,1	7	28	1	011190110	7,391	6,6	31	70	1	011190660	44,604
1,2	8	30	1	011190120	7,201	6,7	31	70	1	011190670	45,453
1,3	8	30	1	011190130	7,072	6,8	34	74	1	011190680	49,403
1,4	9	32	1	011190140	7,003	6,9	34	74	1	011190690	56,307
1,5	9	32	1	011190150	7,709	7	34	74	1	011190700	48,955
1,6	10	34	1	011190160	7,475	7,1	34	74	1	011190710	51,417
1,7	10	34	1	011190170	7,003	7,2	34	74	1	011190720	56,923
1,8	11	36	1	011190180	7,261	7,3	34	74	1	011190730	57,641
1,9	11	36	1	011190190	7,261	7,4	34	74	1	011190740	56,794
2	12	38	1	011190200	10,762	7,5	34	74	1	011190750	55,696
2,1	12	38	1	011190210	11,541	7,6	36	79	1	011190760	60,944
2,2	13	40	1	011190220	12,318	7,7	36	79	1	011190770	61,202
2,3	13	40	1	011190230	12,258	7,8	36	79	1	011190780	60,164
2,4	14	43	1	011190240	13,226	7,9	36	79	1	011190790	61,272
2,5	14	43	1	011190250	13,556	8	36	79	1	011190800	58,610
2,6	14	43	1	011190260	14,003	8,1	36	79	1	011190810	61,011
2,7	16	46	1	011190270	15,819	8,2	36	79	1	011190820	63,866
2,8	16	46	1	011190280	15,241	8,3	36	79	1	011190830	64,963
2,9	16	46	1	011190290	15,370	8,4	36	79	1	011190840	65,222
3	16	46	1	011190300	15,241	8,5	36	79	1	011190850	62,888
3,1	18	49	1	011190310	17,316	8,6	40	84	1	011190860	83,062
3,2	18	49	1	011190320	16,927	8,7	40	84	1	011190870	78,707
3,3	18	49	1	011190330	17,185	8,8	40	84	1	011190880	77,869
3,4	20	52	1	011190340	18,153	8,9	40	84	1	011190890	79,036
3,5	20	52	1	011190350	17,894	9	40	84	1	011190900	75,924
3,6	20	52	1	011190360	19,579	9,1	40	84	1	011190910	78,707
3,7	20	52	1	011190370	19,450	9,2	40	84	1	011190920	87,264
3,8	22	55	1	011190380	20,877	9,3	40	84	1	011190930	87,395
3,9	22	55	1	011190390	21,006	9,4	40	84	1	011190940	88,761
4	22	55	1	011190400	21,336	9,5	40	84	1	011190950	85,579
4,1	22	55	1	011190410	21,913	9,6	43	89	1	011190960	93,748
4,2	22	55	1	011190420	21,524	9,7	43	89	1	011190970	94,077
4,3	24	58	1	011190430	23,280	9,8	43	89	1	011190980	92,711
4,4	24	58	1	011190440	23,280	9,9	43	89	1	011190990	95,173
4,5	24	58	1	011190450	23,928	10	43	89	1	011191000	90,188
4,6	24	58	1	011190460	24,706	10,2	43	89	1	011191020	103,155
4,7	24	58	1	011190470	24,767	10,5	43	89	1	011191050	103,283
4,8	26	62	1	011190480	28,395	10,8	47	95	1	011191080	107,492
4,9	26	62	1	011190490	28,984	11	47	95	1	011191100	117,676
5	26	62	1	011190500	27,878	11,5	47	95	1	011191150	140,816
5,1	26	62	1	011190510	31,853	12	51	102	1	011191200	155,988
5,2	26	62	1	011190520	30,542	12,5	51	102	1	011191250	159,558
5,3	26	62	1	011190530	30,929	13	51	102	1	011191300	175,119
5,4	28	66	1	011190540	34,491	13,5	54	107	1	011191350	257,551
5,5	28	66	1	011190550	33,134	14	54	107	1	011191400	201,181
5,6	28	66	1	011190560	34,171	14,5	56	111	1	011191450	296,922
5,7	28	66	1	011190570	35,468	15	56	111	1	011191500	217,260
5,8	28	66	1	011190580	35,468	15,5	58	115	1	011191550	400,183
5,9	28	66	1	011190590	35,729	16	58	115	1	011191600	269,903

**PUNTE ELICOIDALI CON PLACCHETTA IN METALLO DURO K20
PER IL TAGLIO DEI METALLI**
Carbide tipped twist drills for metal cutting

01093

HM HSS

DIN 338 RETTIFICATA
Ground from the solid

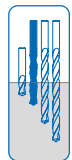
Serie corta
Short serie



W 27°



HM/K20
HSS



<5 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
2	24	49	1	010930200	30,598
2,5	30	57	1	010930250	30,598
3	33	61	1	010930300	30,598
3,5	39	70	1	010930350	30,598
4	43	75	1	010930400	17,000
4,5	47	80	1	010930450	17,721
5	52	86	1	010930500	18,785
5,5	57	93	1	010930550	19,495
6	57	93	1	010930600	20,204
6,5	63	101	1	010930650	22,320
7	69	109	1	010930700	22,674
7,5	69	109	1	010930750	24,083
8	75	117	1	010930800	26,221
8,5	75	117	1	010930850	30,111
9	81	125	1	010930900	30,111
9,5	81	125	1	010930950	32,238
10	87	133	1	010931000	34,710
10,5	87	133	1	010931050	37,558
11	94	142	1	010931100	40,396
11,5	94	142	1	010931150	43,920
12	101	151	1	010931200	47,457
12,5	101	151	1	010931250	51,001
13	101	151	1	010931300	55,247

R ≤ 1400 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



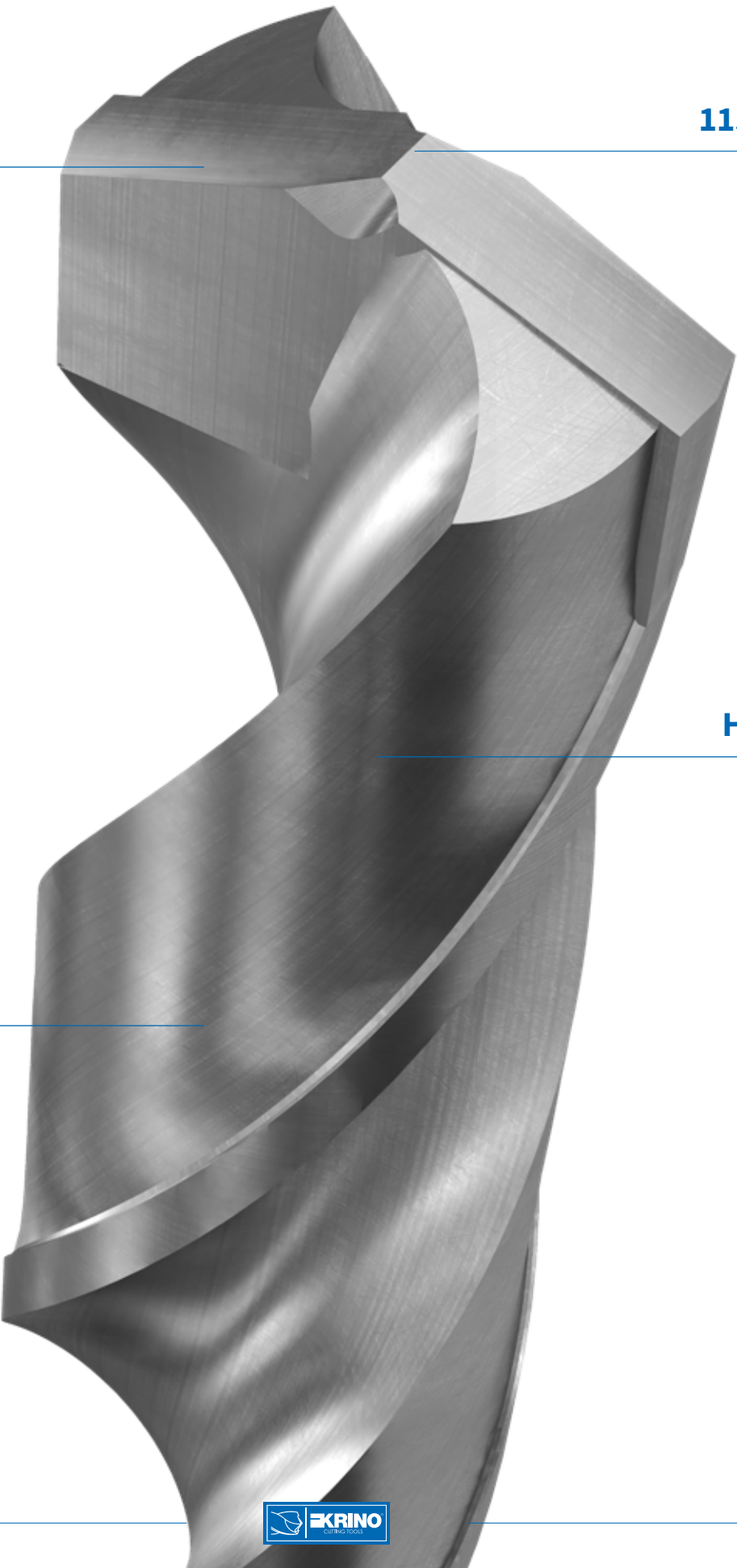
Acciaio al manganese
Manganese steel

Taglio degli acciai duri trattati ed abrasivi con R da 750 N/mm² a 1400 N/mm², acciai per molle, acciai al manganese, molibdeno puro, ghisa in conchiglia con HB>300, bronzo duro.

For drilling in: Hardened steel, tough cast iron, manganese steel, bronze, abrasive tough steel.

HM/K20

115°



HSS

W 27°

PUNTE ELICOIDALI AL COBALTO 8%,
ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA
Cobalt twist drills ground from the solid

01120

HSS-CO 8%

DIN 338 RETTIFICATA
Ground from the solid

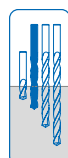
Serie corta
Short serie



W 27°



HV = 850÷920
AISI M42
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)



<5 d



Confezione
Packaging



R ≤ 1400 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel




Emulsione
Lubrificant





Art. 01121 Self
Disponibile su richiesta
On demand

L'alta percentuale di Cobalto (e Molibdeno) rende questa punta particolarmente resistente alle sollecitazioni meccaniche e termiche e, pertanto, è adatta alle lavorazioni dell'acciaio inox e degli acciai resistenti al calore, di tutti gli acciai alto legati e delle leghe molto tenaci (Acciai al Ni Cr, hastelloy, nimonic, inconel).

High performances in cutting stainless steel, alloy steel up to R ≤ 1400 N/mm².

Ø h8	l	L	 pcs.	cod.	€ cad/each
0,3	3	19	10	011200030	6,776
0,35	4	19	10	011200035	6,776
0,4	5	20	10	011200040	6,776
0,45	5	20	10	011200045	6,776
0,5	6	22	10	011200050	5,202
0,55	7	24	10	011200055	5,202
0,6	7	24	10	011200060	5,202
0,65	8	26	10	011200065	5,202
0,7	9	28	10	011200070	5,202
0,75	9	28	10	011200075	5,202
0,8	10	30	10	011200080	5,202
0,85	10	30	10	011200085	5,202
0,9	11	32	10	011200090	5,202
0,95	11	32	10	011200095	5,202
1	12	34	10	011200100	2,546
1,1	14	36	10	011200110	2,807
1,2	16	38	10	011200120	2,807
1,25	16	38	10	011200125	2,807
1,3	16	38	10	011200130	2,807
1,4	18	40	10	011200140	2,807
1,5	18	40	10	011200150	2,546
1,6	20	43	10	011200160	2,807
1,7	20	43	10	011200170	2,807
1,75	22	46	10	011200175	2,807
1,8	22	46	10	011200180	2,807
1,9	22	46	10	011200190	2,807
2	24	49	10	011200200	2,546
2,1	24	49	10	011200210	2,958
2,2	27	53	10	011200220	2,958
2,25	27	53	10	011200225	2,958
2,3	27	53	10	011200230	2,958
2,4	30	57	10	011200240	2,958
2,5	30	57	10	011200250	2,698
2,6	30	57	10	011200260	2,958
2,7	33	61	10	011200270	2,958
2,75	33	61	10	011200275	2,958
2,8	33	61	10	011200280	2,958
2,9	33	61	10	011200290	2,958
3	33	61	10	011200300	2,698
3,1	36	65	10	011200310	3,764
3,2	36	65	10	011200320	3,764
3,25	36	65	10	011200325	3,764
3,3	36	65	10	011200330	3,764
3,4	39	70	10	011200340	3,764
3,5	39	70	10	011200350	3,425
3,6	39	70	10	011200360	4,135
3,7	39	70	10	011200370	4,135
3,75	39	70	10	011200375	4,135
3,8	43	75	10	011200380	4,135
3,9	43	75	10	011200390	4,135
4	43	75	10	011200400	3,764
4,1	43	75	10	011200410	4,736
4,2	43	75	10	011200420	4,736
4,25	43	75	10	011200425	4,736
4,3	47	80	10	011200430	4,736
4,4	47	80	10	011200440	4,736
4,5	47	80	10	011200450	4,312
4,6	47	80	10	011200460	5,038
4,7	47	80	10	011200470	5,038
4,75	47	80	10	011200475	5,038
4,8	52	86	10	011200480	5,038
4,9	52	86	10	011200490	5,038
5	52	86	10	011200500	4,572

Serie corta
Short serie

Ø h8	l	L	 pcs.	cod.	€ cad/each	Ø h8	l	L	 pcs.	cod.	€ cad/each
5,1	52	86	10	011200510	6,817	10,3	87	133	5	011201030	25,573
5,2	52	86	10	011200520	6,817	10,4	87	133	5	011201040	25,573
5,25	52	86	10	011200525	6,817	10,5	87	133	5	011201050	24,506
5,3	52	86	10	011200530	6,817	10,6	87	133	5	011201060	29,611
5,4	57	93	10	011200540	6,817	10,7	94	142	5	011201070	29,611
5,5	57	93	10	011200550	6,188	10,75	94	142	5	011201075	29,611
5,6	57	93	10	011200560	7,106	10,8	94	142	5	011201080	29,611
5,7	57	93	10	011200570	7,106	10,9	94	142	5	011201090	29,611
5,75	57	93	10	011200575	7,106	11	94	142	5	011201100	28,271
5,8	57	93	10	011200580	7,106	11,1	94	142	5	011201110	32,173
5,9	57	93	10	011200590	7,106	11,2	94	142	5	011201120	32,173
6	57	93	10	011200600	6,461	11,25	94	142	5	011201125	32,173
6,1	63	101	10	011200610	9,007	11,3	94	142	5	011201130	32,173
6,2	63	101	10	011200620	9,007	11,4	94	142	5	011201140	32,173
6,25	63	101	10	011200625	9,007	11,5	94	142	5	011201150	29,982
6,3	63	101	10	011200630	9,007	11,6	94	142	5	011201160	33,609
6,4	63	101	10	011200640	9,007	11,7	94	142	5	011201170	33,609
6,5	63	101	10	011200650	8,558	11,75	94	142	5	011201175	33,609
6,6	63	101	10	011200660	10,568	11,8	94	142	5	011201180	33,609
6,7	63	101	10	011200670	10,568	11,9	101	151	5	011201190	33,609
6,75	69	109	10	011200675	10,568	12	101	151	5	011201200	32,650
6,8	69	109	10	011200680	10,568	12,1	101	151	5	011201210	37,374
6,9	69	109	10	011200690	10,568	12,2	101	151	5	011201220	37,374
7	69	109	10	011200700	9,857	12,25	101	151	5	011201225	37,374
7,1	69	109	5	011200710	12,869	12,3	101	151	5	011201230	37,374
7,2	69	109	5	011200720	12,869	12,4	101	151	5	011201240	37,374
7,25	69	109	5	011200725	12,869	12,5	101	151	5	011201250	35,320
7,3	69	109	5	011200730	12,869	12,6	101	151	5	011201260	39,782
7,4	69	109	5	011200740	12,869	12,7	101	151	5	011201270	39,782
7,5	69	109	5	011200750	10,951	12,75	101	151	5	011201275	39,782
7,6	75	117	5	011200760	13,963	12,8	101	151	5	011201280	39,782
7,7	75	117	5	011200770	13,963	12,9	101	151	5	011201290	39,782
7,75	75	117	5	011200775	13,963	13	101	151	5	011201300	38,059
7,8	75	117	5	011200780	13,963	13,25	108	160	3	011201325	57,568
7,9	75	117	5	011200790	13,963	13,5	108	160	3	011201350	57,568
8	75	117	5	011200800	12,732	13,75	108	160	3	011201375	57,568
8,1	75	117	5	011200810	15,334	14	108	160	3	011201400	57,568
8,2	75	117	5	011200820	15,334	14,25	114	169	3	011201425	78,773
8,25	75	117	5	011200825	15,334	14,5	114	169	3	011201450	78,773
8,3	75	117	5	011200830	15,334	14,75	114	169	3	011201475	78,773
8,4	75	117	5	011200840	15,334	15	114	169	3	011201500	78,773
8,5	75	117	5	011200850	14,102	15,25	120	178	3	011201525	84,371
8,6	81	125	5	011200860	17,935	15,5	120	178	3	011201550	84,371
8,7	81	125	5	011200870	17,935	15,75	120	178	3	011201575	84,371
8,75	81	125	5	011200875	17,935	16	120	178	3	011201600	84,371
8,8	81	125	5	011200880	17,935	16,5	125	184	1	011201650	102,677
8,9	81	125	5	011200890	17,935	17	125	184	1	011201700	102,677
9	81	125	5	011200900	16,975	17,5	130	191	1	011201750	116,367
9,1	81	125	5	011200910	20,877	18	130	191	1	011201800	116,367
9,2	81	125	5	011200920	20,877	18,5	135	198	1	011201850	130,057
9,25	81	125	5	011200925	20,877	19	135	198	1	011201900	130,057
9,3	81	125	5	011200930	20,877	19,5	140	205	1	011201950	147,853
9,4	81	125	5	011200940	20,877	20	140	205	1	011202000	147,853
9,5	81	125	5	011200950	18,070						
9,6	87	133	5	011200960	21,834						
9,7	87	133	5	011200970	21,834						
9,75	87	133	5	011200975	21,834						
9,8	87	133	5	011200980	21,834						
9,9	87	133	5	011200990	21,834						
10	87	133	5	011201000	21,000						
10,1	87	133	5	011201010	25,573						
10,2	87	133	5	011201020	25,573						
10,25	87	133	5	011201025	25,573						

**PUNTE ELICOIDALI AL COBALTO 8%,
SERIE CORTA, CODOLO RIDOTTO**
Cobalt straight shank twist drills, stub serie

01122

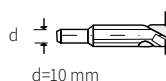
HSS-CO 8%

DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 10mm
Reduced shank - 10 mm



$\le 5d$



$d=10\text{ mm}$

$R \le 1400\text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Art. 01124 Self
Disponibile su richiesta
On demand



Confezione
Packaging



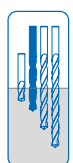
\emptyset h8	l	L	d	 pcs.	cod.	€ cad/each
10,25	87	133	10	5	011221025	28,489
10,5	87	133	10	5	011221050	28,489
10,75	94	142	10	5	011221075	32,665
11	94	142	10	5	011221100	32,665
11,25	94	142	10	5	011221125	36,211
11,5	94	142	10	5	011221150	36,211
11,75	94	142	10	5	011221175	39,647
12	101	151	10	5	011221200	39,647
12,25	101	151	10	5	011221225	43,068
12,5	101	151	10	5	011221250	43,068
12,75	101	151	10	5	011221275	46,328
13	101	151	10	5	011221300	46,328
13,25	108	160	10	3	011221325	63,700
13,5	108	160	10	3	011221350	63,700
13,75	108	160	10	3	011221375	63,700
14	108	160	10	3	011221400	63,700
14,25	114	169	10	3	011221425	76,281
14,5	114	169	10	3	011221450	76,281
14,75	114	169	10	3	011221475	76,281
15	114	169	10	3	011221500	76,281
15,25	120	178	10	3	011221525	90,807
15,5	120	178	10	3	011221550	90,807
15,75	120	178	10	3	011221575	90,807
16	120	178	10	3	011221600	90,807
16,5	125	184	10	1	011221650	105,153
17	125	184	10	1	011221700	105,153
17,5	130	191	10	1	011221750	121,432
18	130	191	10	1	011221800	141,213
18,5	135	198	10	1	011221850	141,213
19	135	198	10	1	011221900	141,213
19,5	140	205	10	1	011221950	158,723
20	140	205	10	1	011222000	158,723

01123

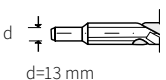
HSS-CO 8%

DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 13 mm
Reduced shank - 13 mm



$\le 5d$



$d=13\text{ mm}$

$R \le 1400\text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Confezione
Packaging



\emptyset h8	l	L	d	 pcs.	cod.	€ cad/each
13,25	108	160	13	3	011231325	63,700
13,5	108	160	13	3	011231350	63,700
13,75	108	160	13	3	011231375	63,700
14	108	160	13	3	011231400	63,700
14,25	114	169	13	3	011231425	76,281
14,5	114	169	13	3	011231450	76,281
14,75	114	169	13	3	011231475	76,281
15	114	169	13	3	011231500	76,281
15,25	120	178	13	3	011231525	90,807
15,5	120	178	13	3	011231550	90,807
15,75	120	178	13	3	011231575	90,807
16	120	178	13	3	011231600	90,807
16,5	125	184	13	1	011231650	105,153
17	125	184	13	1	011231700	105,153
17,5	130	191	13	1	011231750	121,432
18	130	191	13	1	011231800	121,432
18,5	135	198	13	1	011231850	139,064
19	135	198	13	1	011231900	139,064
19,5	140	205	13	1	011231950	158,723
20	140	205	13	1	011232000	158,723

PUNTE ELICOIDALI AL COBALTO 8%,
SERIE EXTRA CORTA, SERIE LUNGA
Cobalt straight shank twist drills, stub serie

01126

HSS-CO 8% DIN 1897

Serie extra corta
Stub serie



W 27°



HV ≈ 850÷920
AISI M42
SPLIT POINT
DIN 1412 C



<3 d

Confezione
Packaging



Ø h8	l	L	pcs. 	cod.	€ cad/each
3	16	46	10	011260300	2,835
3,25	18	49	10	011260325	3,601
3,5	20	52	10	011260350	3,601
3,75	20	52	10	011260375	3,956
4	22	55	10	011260400	3,956
4,25	22	55	10	011260425	4,533
4,5	24	58	10	011260450	4,533
4,75	24	58	10	011260475	4,805
5	26	62	10	011260500	4,805
5,5	28	66	10	011260550	6,502
6	28	66	10	011260600	6,776

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubricant



01128

HSS-CO 8% DIN 340

Serie lunga
Long serie



W 27°



HV ≈ 850÷920
AISI M42
SPLIT POINT
DIN 1412 C



<8 d

Confezione
Packaging



Ø h8	l	L	pcs. 	cod.	€ cad/each
3	66	100	10	011280300	5,887
3,25	69	106	10	011280325	6,625
3,5	73	112	10	011280350	6,625
3,75	73	112	10	011280375	7,980
4	78	119	10	011280400	7,980
4,25	78	119	10	011280425	9,514
4,5	82	126	10	011280450	9,514
4,75	82	126	10	011280475	10,432
5	87	132	10	011280500	9,939
5,25	87	132	10	011280525	12,183
5,5	91	139	10	011280550	11,610
5,75	91	139	10	011280575	15,211
6	91	139	10	011280600	14,497
6,5	97	148	5	011280650	16,975
7	102	156	5	011280700	19,644
7,5	102	156	5	011280750	24,985
8	109	165	5	011280800	27,928
8,5	109	165	5	011280850	32,077
9	115	175	5	011280900	36,552
9,5	115	175	5	011280950	42,097
10	121	184	5	011281000	49,587

Applicazioni
Applications



Inox
Stainless



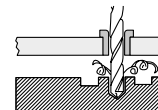
Metalli
Metals



Acciaio
Steel



Emulsione
Lubricant



PUNTE ELICOIDALI CILINDRICHE AL COBALTO

RIVESTITE AL TiAlN

HSS-CO TiAlN coated twist drills

01300

HSS-CO 5%

TiAlN

DIN 338

Serie corta

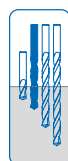
Short serie



W 27°



HV 0,05 = 3300
Riv. TiAlN



<math>< 5 d</math>

R ≥ 1300 N/mm²

Applicazioni
Applications



Inco
Stainless



Metalli
Metals



Acciaio
Steel

Taglio a secco, ad altissima velocità di rotazione ed avanzamento su tutti gli acciai durissimi (acciai alto legati in genere, acciai inox) e materiali fortemente abrasivi (ghisa, leghe Al-Si).

H.S.C. in high alloy steel, stainless steel, abrasive metals as cast iron, Al-Si Alloys.

Confezione
Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
1	12	34	1	013000100	7,834
1,25	16	38	1	013000125	8,046
1,5	18	40	1	013000150	8,046
1,75	22	46	1	013000175	7,892
2	24	49	1	013000200	7,892
2,25	27	53	1	013000225	7,892
2,5	30	57	1	013000250	7,892
2,75	33	61	1	013000275	7,892
3	33	61	1	013000300	7,892
3,2	36	65	1	013000320	8,521
3,25	36	65	1	013000325	8,521
3,5	39	70	1	013000350	8,521
3,75	39	70	1	013000375	8,678
4	43	75	1	013000400	8,678
4,2	43	75	1	013000420	10,550
4,25	43	75	1	013000425	10,550
4,5	47	80	1	013000450	10,550
4,75	47	80	1	013000475	10,550
4,8	52	86	1	013000480	10,550
5	52	86	1	013000500	10,550
5,2	52	86	1	013000520	11,747
5,25	52	86	1	013000525	11,747
5,5	57	93	1	013000550	11,747
5,75	57	93	1	013000575	11,747
6	57	93	1	013000600	11,747
6,25	63	101	1	013000625	17,124
6,5	63	101	1	013000650	17,124
6,75	69	109	1	013000675	18,097
7	69	109	1	013000700	18,097
7,25	69	109	1	013000725	18,097
7,5	69	109	1	013000750	18,097
7,75	75	117	1	013000775	19,338
8	75	117	1	013000800	19,338
8,25	75	117	1	013000825	21,068
8,5	75	117	1	013000850	21,068
8,75	81	125	1	013000875	22,720
9	81	125	1	013000900	22,720
9,25	81	125	1	013000925	23,406
9,5	81	125	1	013000950	23,406
9,75	87	133	1	013000975	26,254
10	87	133	1	013001000	26,254
10,25	87	133	1	013001025	32,370
10,5	87	133	1	013001050	32,370
10,75	94	142	1	013001075	34,621
11	94	142	1	013001100	34,621
11,25	94	142	1	013001125	35,364
11,5	94	142	1	013001150	35,364
11,75	94	142	1	013001175	37,048
12	101	151	1	013001200	37,048
12,25	101	151	1	013001225	39,731
12,5	101	151	1	013001250	39,731
12,75	101	151	1	013001275	42,137
13	101	151	1	013001300	42,137

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting, short serie

01305

HSS-CO 5%

TiAlN

DIN 338 RETTIFICATA

Ground from the solid

Serie corta

Short serie



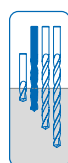
W 35°



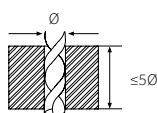
HSS-CO
Parabolic

DIN 1412/C
HV = 800±860

AFFILATURA
A CROCE
Cross sharpening



≤5 d



≤5Ø



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	24	49	1	013050200	10,340
2,25	27	53	1	013050225	10,340
2,5	30	57	1	013050250	10,340
2,75	33	61	1	013050275	10,537
3	33	61	1	013050300	10,537
3,2	36	65	1	013050320	10,876
3,25	36	65	1	013050325	10,876
3,5	39	70	1	013050350	10,876
3,75	39	70	1	013050375	11,213
4	43	75	1	013050400	11,213
4,2	43	75	1	013050420	13,298
4,25	43	75	1	013050425	13,298
4,5	47	80	1	013050450	13,298
4,75	47	80	1	013050475	13,696
4,8	52	86	1	013050480	13,696
5	52	86	1	013050500	13,696
5,2	52	86	1	013050520	14,581
5,25	52	86	1	013050525	14,581
5,5	57	93	1	013050550	14,581
5,75	57	93	1	013050575	15,172
6	57	93	1	013050600	15,172
6,25	63	101	1	013050625	19,984
6,5	63	101	1	013050650	19,984
6,75	63	101	1	013050675	21,267
7	69	109	1	013050700	21,267
7,5	69	109	1	013050750	22,467
8	75	117	1	013050800	23,520
8,5	75	117	1	013050850	26,205
9	81	125	1	013050900	30,176
9,5	81	125	1	013050950	32,153
10	87	133	1	013051000	34,132
10,5	87	133	1	013051050	39,976
11	94	142	1	013051100	42,409
11,5	94	142	1	013051150	46,493
12	101	151	1	013051200	46,493
12,5	101	151	1	013051250	54,189
13	101	151	1	013051300	57,401

R ≤ 1300 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

PARABOLIC

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting, short serie

01307

HSS-CO 5%

TiAIN

DIN 1897 RETTIFICATA
Ground from the solid

Serie extra corta
Extra short serie

PARABOLIC



W 35°



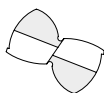
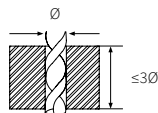
HSS-CO+TiAIN
Parabolic
DIN 1412/C
HV=800÷860
AFFILATURA
A CROCE
Cross sharpening



Confezione
Packaging



<3 d



R ≤ 1300 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	46	1	013070300	9,455
3,2	18	49	1	013070320	9,496
3,25	18	49	1	013070325	9,496
3,3	18	49	1	013070330	9,496
3,5	20	52	1	013070350	9,582
3,7	20	52	1	013070370	9,812
3,75	20	52	1	013070375	9,812
3,8	22	55	1	013070380	9,812
4	22	55	1	013070400	9,812
4,2	22	55	1	013070420	11,161
4,25	22	55	1	013070425	11,161
4,5	24	58	1	013070450	11,444
4,7	24	58	1	013070470	11,885
4,75	24	58	1	013070475	11,885
4,8	26	62	1	013070480	11,885
5	26	62	1	013070500	11,885
5,2	26	62	1	013070520	12,918
5,25	26	62	1	013070525	12,918
5,5	28	66	1	013070550	12,550
5,7	28	66	1	013070570	14,402
5,75	28	66	1	013070575	14,402
5,8	28	66	1	013070580	14,402
6	28	66	1	013070600	12,781
6,5	31	70	1	013070650	16,897
6,8	34	74	1	013070680	17,460
7	34	74	1	013070700	18,078
7,5	34	74	1	013070750	18,489
8	37	79	1	013070800	19,108
8,5	37	79	1	013070850	24,732
9	40	84	1	013070900	24,732
9,5	40	84	1	013070950	29,669
10	43	89	1	013071000	29,669
10,5	43	89	1	013071050	36,786
11	47	95	1	013071100	38,071
11,5	47	95	1	013071150	39,482
12	51	102	1	013071200	42,134
12,5	51	102	1	013071250	44,588
13	51	102	1	013071300	44,588

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE - SERIE LUNGA

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting, short serie

01306

HSS-CO 5%

TiAIN

DIN 340 RETTIFICATA
Ground from the solid

Serie lunga
Long serie



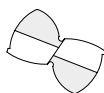
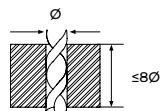
W 35°



HSS-CO+TiAIN
Parabolic
DIN 1412/C
HV = 800÷860
AFFILATURA
A CROCE
Cross sharpening




<8 d



R ≤ 1300 N/mm²

Confezione
Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
2,5	62	95	1	013060250	12,496
3	66	100	1	013060300	12,844
3,25	69	106	1	013060325	13,792
3,5	73	112	1	013060350	13,792
3,75	73	112	1	013060375	14,392
4	78	119	1	013060400	14,392
4,25	78	119	1	013060425	17,065
4,5	82	126	1	013060450	17,065
4,75	82	126	1	013060475	17,563
5	87	132	1	013060500	17,563
5,25	87	132	1	013060525	19,351
5,5	91	139	1	013060550	19,351
5,75	91	139	1	013060575	19,351
6	91	139	1	013060600	19,351
6,25	97	148	1	013060625	27,248
6,5	97	148	1	013060650	27,248
7	102	156	1	013060700	29,753
7,5	102	156	1	013060750	31,184
8	109	165	1	013060800	34,364
8,5	109	165	1	013060850	38,134
9	115	175	1	013060900	39,828
9,5	115	175	1	013060950	40,229
10	121	184	1	013061000	44,294
10,5	121	184	1	013061050	55,169
11	128	195	1	013061100	58,676
11,5	128	195	1	013061150	59,528
12	134	205	1	013061200	68,161
12,5	134	205	1	013061250	71,951
13	134	205	1	013061300	74,204

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE - SERIE CORTA

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting, short serie

01140

HSS-CO 5%

DIN 338 RETTIFICATA

Ground from the solid

Serie corta

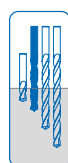
Short serie



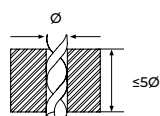
W 35°



HSS-CO
Parabolic
DIN 1412/C
HV = 800-860
AFFILATURA
A CROCE
Cross sharpening



≤5 d



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	24	49	10	011400200	2,686
2,25	27	53	10	011400225	2,686
2,5	30	57	10	011400250	2,686
2,75	33	61	10	011400275	2,864
3	33	61	10	011400300	2,864
3,2	36	65	10	011400320	3,191
3,25	36	65	10	011400325	3,191
3,5	39	70	10	011400350	3,191
3,75	39	70	10	011400375	3,519
4	43	75	10	011400400	3,519
4,2	43	75	10	011400420	4,240
4,25	43	75	10	011400425	4,240
4,5	47	80	10	011400450	4,240
4,75	47	80	10	011400475	4,637
4,8	52	86	10	011400480	4,637
5	52	86	10	011400500	4,637
5,2	52	86	10	011400520	5,481
5,25	52	86	10	011400525	5,481
5,5	57	93	10	011400550	5,481
5,75	57	93	10	011400575	6,065
6	57	93	10	011400600	6,065
6,25	63	101	10	011400625	7,868
6,5	63	101	10	011400650	7,868
6,75	63	101	10	011400675	9,117
7	69	109	10	011400700	9,117
7,5	69	109	5	011400750	10,276
8	75	117	5	011400800	11,305
8,5	75	117	5	011400850	13,910
9	81	125	5	011400900	15,062
9,5	81	125	5	011400950	16,985
10	87	133	5	011401000	18,896
10,5	87	133	5	011401050	22,128
11	94	142	5	011401100	24,485
11,5	94	142	5	011401150	28,450
12	101	151	5	011401200	28,450
12,5	101	151	5	011401250	34,037
13	101	151	5	011401300	37,160

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting

01143

HSS-CO 5%

DIN 1897 RETTIFICATA
Ground from the solid

Serie extra corta
Extra short serie



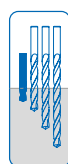
W 35°



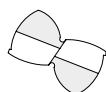
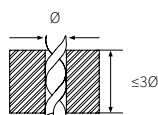
HSS-CO
Parabolic
DIN 1412/C
HV= 800÷860
AFFILATURA
A CROCE
Cross sharpening



Confezione
Packaging



< 3 d



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	46	10	011430300	1,821
3,2	18	49	10	011430320	1,864
3,25	18	49	10	011430325	1,864
3,3	18	49	10	011430330	1,864
3,5	20	52	10	011430350	1,953
3,7	20	52	10	011430370	2,180
3,75	20	52	10	011430375	2,180
3,8	22	55	10	011430380	2,180
4	22	55	10	011430400	2,180
4,2	22	55	10	011430420	2,288
4,25	22	55	10	011430425	2,431
4,5	24	58	10	011430450	2,581
4,7	24	58	10	011430470	3,028
4,75	24	58	10	011430475	3,216
4,8	26	62	10	011430480	3,330
5	26	62	10	011430500	3,330
5,2	26	62	10	011430520	3,895
5,25	26	62	10	011430525	3,895
5,5	28	66	10	011430550	3,537
5,7	28	66	10	011430570	5,352
5,75	28	66	10	011430575	5,352
5,8	28	66	10	011430580	5,352
6	28	66	10	011430600	3,756
6,5	31	70	10	011430650	4,906
6,8	34	74	10	011430680	7,132
7	34	74	10	011430700	6,054
7,5	34	74	5	011430750	6,461
8	37	79	5	011430800	7,065
8,5	37	79	5	011430850	9,840
9	40	84	5	011430900	9,840
9,5	40	84	5	011430950	14,666
10	43	89	5	011431000	14,666
10,5	43	89	5	011431050	19,135
11	47	95	5	011431100	20,393
11,5	47	95	5	011431150	21,771
12	51	102	5	011431200	24,358
12,5	51	102	5	011431250	24,873
13	51	102	5	011431300	24,873

PARABOLIC

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting

01141

HSS-CO 5%

DIN 340 RETTIFICATA

Ground from the solid

Serie lunga

Long serie



W 35°



HSS-CO
Parabolic
DIN 1412/C

HV = 800÷860

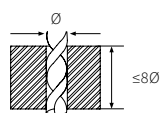
AFFILATURA

A CROCE

Cross sharpening



<8 d



R ≤ 1200 N/mm²

Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2,5	62	95	10	011410250	4,806
3	66	100	10	011410300	5,144
3,25	69	106	10	011410325	6,075
3,5	73	112	10	011410350	6,075
3,75	73	112	10	011410375	6,649
4	78	119	10	011410400	6,649
4,25	78	119	10	011410425	7,948
4,5	82	126	10	011410450	7,948
4,75	82	126	10	011410475	8,434
5	87	132	10	011410500	8,434
5,25	87	132	10	011410525	10,177
5,5	91	139	10	011410550	10,177
5,75	91	139	10	011410575	10,177
6	91	139	10	011410600	10,177
6,25	97	148	5	011410625	15,011
6,5	97	148	5	011410650	15,011
7	102	156	5	011410700	17,460
7,5	102	156	5	011410750	18,847
8	109	165	5	011410800	20,889
8,5	109	165	5	011410850	22,930
9	115	175	5	011410900	24,584
9,5	115	175	5	011410950	24,970
10	121	184	5	011411000	26,883
10,5	121	184	5	011411050	37,090
11	128	195	5	011411100	40,518
11,5	128	195	5	011411150	41,340
12	134	205	5	011411200	45,503
12,5	134	205	5	011411250	46,899
13	134	205	5	011411300	49,100

Applicazioni
Applications



Inox
Stainless



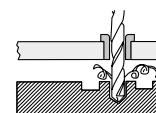
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE AL COBALTO 5%,
SERIE EXTRA LUNGA
Cobalt extra long straight shank twist drills

01376

HSS-CO 5% DIN 1869/1 PARABOLIC

Serie extra lunga
Extra long serie



W 35°



≥10 d



Confezione
Packaging



∅ h8	l	L	pcs.	cod.	€ cad/each
3	100	150	1	013760300	39,006
3,5	115	165	1	013760350	39,006
4	120	175	1	013760400	39,836
4,5	125	185	1	013760450	41,380
5	135	195	1	013760500	31,891
5,5	140	205	1	013760550	36,941
6	140	205	1	013760600	37,399
6,5	150	215	1	013760650	46,156
7	155	225	1	013760700	52,915
7,5	155	225	1	013760750	56,626
8	165	240	1	013760800	52,692
8,5	165	240	1	013760850	69,550
9	175	250	1	013760900	71,244
9,5	175	250	1	013760950	84,648
10	185	265	1	013761000	77,119

Applicazioni
Applications



Inox
Stainless



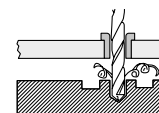
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



01377

HSS-CO 5% DIN 1869/2 PARABOLIC

Serie extra lunga
Extra long serie



W 35°



≥10 d



Confezione
Packaging



∅ h8	l	L	pcs.	cod.	€ cad/each
3	130	190	1	013770300	55,732
3,5	145	210	1	013770350	49,212
4	150	220	1	013770400	50,356
4,5	160	235	1	013770450	54,072
5	170	245	1	013770500	51,605
5,5	180	260	1	013770550	56,281
6	180	260	1	013770600	53,138
6,5	190	275	1	013770650	79,574
7	200	290	1	013770700	84,286
7,5	200	290	1	013770750	88,729
8	210	305	1	013770800	88,378
8,5	210	305	1	013770850	96,571
9	220	320	1	013770900	92,836
9,5	220	320	1	013770950	107,195
10	235	340	1	013771000	89,978

Applicazioni
Applications



Inox
Stainless



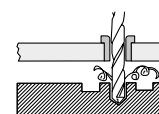
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE AL COBALTO 5%,
SERIE EXTRA LUNGA
Cobalt extra long straight shank twist drills

01378

HSS-CO 5% DIN 1869/3 PARABOLIC

Serie extra lunga
Extra long serie

PARABOLIC



W 35°




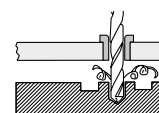
≥10 d



Confezione
Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
3	160	240	1	013780300	72,458
3,5	180	265	1	013780350	64,023
4	190	280	1	013780400	65,503
4,5	200	295	1	013780450	70,287
5	210	315	1	013780500	70,926
5,5	225	330	1	013780550	69,393
6	225	330	1	013780600	66,783
6,5	235	350	1	013780650	98,057
7	250	370	1	013780700	103,930
7,5	250	370	1	013780750	109,356
8	265	390	1	013780800	105,334
8,5	265	390	1	013780850	125,603
9	280	410	1	013780900	114,464
9,5	280	410	1	013780950	144,724
10	295	430	1	013781000	140,212
10,5	295	430	1	013781050	162,964
11	310	455	1	013781100	220,879
11,5	310	455	1	013781150	243,318
12	330	480	1	013781200	245,385
12,5	330	480	1	013781250	245,385
13	330	480	1	013781300	259,677



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI AL COBALTO 5% CON ELICA RAPIDA TIPO W, PER IL TAGLIO DEGLI ACCIAI INOX, ACCIAI RESISTENTI AL CALORE ED AUSTENITICI (V2A-V4A)

Cobalt twist drill with W type flute to cut stainless steel, heat resistant steel, austenitic steel (V2A-V4A)

01139

HSS-CO 5%

DIN 338 RETTIFICATA W36°

Ground from the solid

Serie corta

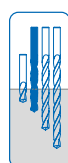
Short serie



W36°



HV = 800±860
AISI M35
SPLIT POINT
DIN 1412 C
(Ø ≥ 3 mm)



<5 d



Confezione
Packaging



W 36°

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	l	L	pcs. €	cod.	cad/each
1	12	34	10	011390100	2,475
1,25	16	38	10	011390125	2,475
1,5	18	40	10	011390150	1,939
1,75	22	46	10	011390175	2,218
2	24	49	10	011390200	1,761
2,25	27	53	10	011390225	1,939
2,5	30	57	10	011390250	1,939
2,75	33	61	10	011390275	1,939
2,8	33	61	10	011390280	1,939
3	33	61	10	011390300	1,939
3,2	36	65	10	011390320	1,939
3,25	36	65	10	011390325	2,308
3,3	36	65	10	011390330	2,308
3,4	39	70	10	011390340	2,386
3,5	39	70	10	011390350	2,386
3,7	39	70	10	011390370	2,475
3,75	39	70	10	011390375	2,821
3,8	43	75	10	011390380	2,821
4	43	75	10	011390400	2,664
4,1	43	75	10	011390410	2,921
4,2	43	75	10	011390420	2,921
4,25	43	75	10	011390425	3,099
4,5	47	80	10	011390450	2,999
4,75	47	80	10	011390475	3,277
4,8	52	86	10	011390480	3,277
5	52	86	10	011390500	3,277
5,2	52	86	10	011390520	3,624
5,25	52	86	10	011390525	3,624
5,5	57	93	10	011390550	4,415
5,75	57	93	10	011390575	4,415
6	57	93	10	011390600	4,415
6,25	63	101	10	011390625	7,124
6,5	63	101	10	011390650	7,637
6,75	69	109	10	011390675	9,799
7	69	109	10	011390700	9,152
7,25	69	109	5	011390725	10,301
7,5	69	109	5	011390750	10,301
7,75	75	117	5	011390775	11,048
8	75	117	5	011390800	11,048
8,25	75	117	5	011390825	11,816
8,5	75	117	5	011390850	11,694
8,75	81	125	5	011390875	14,357
9	81	125	5	011390900	14,357
9,25	81	125	5	011390925	15,506
9,5	81	125	5	011390950	15,506
9,75	87	133	5	011390975	17,022
10	87	133	5	011391000	17,022
10,25	87	133	5	011391025	21,348
10,5	87	133	5	011391050	21,348
10,75	94	142	5	011391075	25,026
11	94	142	5	011391100	25,026
11,25	94	142	5	011391125	26,176
11,5	94	142	5	011391150	26,176
11,75	94	142	5	011391175	28,951
12	101	151	5	011391200	28,951
12,25	101	151	5	011391225	31,615
12,5	101	151	5	011391250	31,615
12,75	101	151	5	011391275	32,262
13	101	151	5	011391300	32,262

V2A è la classificazione tedesca dell'acciaio inox 304, mentre V4A è l'inox 316.

V2A is german standard for 304 stainless steel, V4A is 316 stainless steel.

PUNTE ELICOIDALI AL COBALTO 5%,
ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA
Cobalt twist drills ground from the solid

01145

HSS-CO 5%

DIN 338
Ground from the solid

Serie corta
Short serie



W 27°



HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C
(Ø ≥ 3 mm)



<5 μ



Confezione
Packaging



$R \leq 1200 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant





Art. 01144 Self
Disponibile su richiesta
On demand

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R fino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to $R \leq 1200 \text{ N/mm}^2$.

Ø	h8	l	L	pcs.	cod.	€	Ø	h8	l	L	pcs.	cod.	€
						cad/each							cad/each
0,2	2,5	19	10	011450020	2,591		4,9	52	86	10	011450490	3,298	
0,25	3	19	10	011450025	2,591		5	52	86	10	011450500	2,999	
0,3	3	19	10	011450030	2,591		5,1	52	86	10	011450510	4,018	
0,35	4	19	10	011450035	2,591		5,2	52	86	10	011450520	4,018	
0,4	5	20	10	011450040	2,591		5,25	52	86	10	011450525	4,018	
0,45	5	20	10	011450045	2,591		5,3	52	86	10	011450530	4,018	
0,5	6	22	10	011450050	2,591		5,4	57	93	10	011450540	4,018	
0,55	7	24	10	011450055	2,591		5,5	57	93	10	011450550	3,825	
0,6	7	24	10	011450060	2,591		5,6	57	93	10	011450560	4,629	
0,65	8	26	10	011450065	2,591		5,7	57	93	10	011450570	4,629	
0,7	9	28	10	011450070	2,591		5,75	57	93	10	011450575	4,629	
0,75	9	28	10	011450075	2,591		5,8	57	93	10	011450580	4,629	
0,8	10	30	10	011450080	2,591		5,9	57	93	10	011450590	4,629	
0,85	10	30	10	011450085	2,591		6	57	93	10	011450600	4,245	
0,9	11	32	10	011450090	2,591		6,1	63	101	10	011450610	5,455	
0,95	11	32	10	011450095	2,591		6,2	63	101	10	011450620	5,455	
1	12	34	10	011450100	1,655		6,25	63	101	10	011450625	5,455	
1,1	14	36	10	011450110	1,834		6,3	63	101	10	011450630	5,455	
1,2	16	38	10	011450120	1,834		6,4	63	101	10	011450640	5,455	
1,25	16	38	10	011450125	1,834		6,5	63	101	10	011450650	5,049	
1,3	16	38	10	011450130	1,834		6,6	63	101	10	011450660	6,668	
1,4	18	40	10	011450140	1,834		6,7	63	101	10	011450670	6,668	
1,5	18	40	10	011450150	1,655		6,75	69	109	10	011450675	6,668	
1,6	20	43	10	011450160	1,750		6,8	69	109	10	011450680	6,668	
1,7	20	43	10	011450170	1,750		6,9	69	109	10	011450690	6,668	
1,75	22	46	10	011450175	1,750		7	69	109	10	011450700	6,165	
1,8	22	46	10	011450180	1,750		7,1	69	109	5	011450710	7,435	
1,9	22	46	10	011450190	1,750		7,2	69	109	5	011450720	7,435	
2	24	49	10	011450200	1,595		7,25	69	109	5	011450725	7,435	
2,1	24	49	10	011450210	1,943		7,3	69	109	5	011450730	7,435	
2,2	27	53	10	011450220	1,943		7,4	69	109	5	011450740	7,435	
2,25	27	53	10	011450225	1,943		7,5	69	109	5	011450750	6,764	
2,3	27	53	10	011450230	1,943		7,6	75	117	5	011450760	8,756	
2,4	30	57	10	011450240	1,943		7,7	75	117	5	011450770	8,756	
2,5	30	57	10	011450250	1,679		7,75	75	117	5	011450775	8,756	
2,6	30	57	10	011450260	1,847		7,8	75	117	5	011450780	8,756	
2,7	33	61	10	011450270	1,847		7,9	75	117	5	011450790	8,756	
2,75	33	61	10	011450275	1,847		8	75	117	5	011450800	7,962	
2,8	33	61	10	011450280	1,847		8,1	75	117	5	011450810	9,271	
2,9	33	61	10	011450290	1,847		8,2	75	117	5	011450820	9,271	
3	33	61	10	011450300	1,679		8,25	75	117	5	011450825	9,271	
3,1	36	65	10	011450310	2,301		8,3	75	117	5	011450830	9,271	
3,2	36	65	10	011450320	2,301		8,4	75	117	5	011450840	9,271	
3,25	36	65	10	011450325	2,301		8,5	75	117	5	011450850	8,430	
3,3	36	65	10	011450330	2,301		8,6	81	125	5	011450860	11,333	
3,4	39	70	10	011450340	2,301		8,7	81	125	5	011450870	11,333	
3,5	39	70	10	011450350	2,087		8,75	81	125	5	011450875	11,333	
3,6	39	70	10	011450360	2,722		8,8	81	125	5	011450880	11,333	
3,7	39	70	10	011450370	2,722		8,9	81	125	5	011450890	11,333	
3,75	39	70	10	011450375	2,722		9	81	125	5	011450900	10,302	
3,8	43	75	10	011450380	2,722		9,1	81	125	5	011450910	11,859	
3,9	43	75	10	011450390	2,722		9,2	81	125	5	011450920	11,859	
4	43	75	10	011450400	2,482		9,25	81	125	5	011450925	11,859	
4,1	43	75	10	011450410	3,129		9,3	81	125	5	011450930	11,859	
4,2	43	75	10	011450420	3,129		9,4	81	125	5	011450940	11,859	
4,25	43	75	10	011450425	3,129		9,5	81	125	5	011450950	10,782	
4,3	47	80	10	011450430	3,129		9,6	87	133	5	011450960	13,767	
4,4	47	80	10	011450440	3,129		9,7	87	133	5	011450970	13,767	
4,5	47	80	10	011450450	2,843		9,75	87	133	5	011450975	13,767	
4,6	47	80	10	011450460	3,298		9,8	87	133	5	011450980	13,767	
4,7	47	80	10	011450470	3,298		9,9	87	133	5	011450990	13,767	
4,75	47	80	10	011450475	3,298		10	87	133	5	011451000	12,519	
4,8	52	86	10	011450480	3,298		10,1	87	133	5	011451010	16,393	

Serie corta
Short serie

Ø h8	l	L	 pcs.	cod.	€ cad/each	Ø h8	l	L	 pcs.	cod.	€ cad/each
10,2	87	133	5	011451020	16,393	15,4	120	178	3	011451540	53,128
10,25	87	133	5	011451025	16,393	15,5	120	178	3	011451550	53,128
10,3	87	133	5	011451030	16,393	15,6	120	178	3	011451560	53,128
10,4	87	133	5	011451040	16,393	15,7	120	178	3	011451570	53,128
10,5	87	133	5	011451050	14,906	15,75	120	178	3	011451575	54,409
10,6	87	133	5	011451060	18,540	15,8	120	178	3	011451580	54,409
10,7	94	142	5	011451070	18,540	15,9	120	178	3	011451590	54,409
10,75	94	142	5	011451075	18,540	16	120	178	3	011451600	54,409
10,8	94	142	5	011451080	18,540	16,25	125	184	1	011451625	55,345
10,9	94	142	5	011451090	18,540	16,5	125	184	1	011451650	55,345
11	94	142	5	011451100	16,850	16,75	125	184	1	011451675	55,345
11,1	94	142	5	011451110	20,206	17	125	184	1	011451700	55,345
11,2	94	142	5	011451120	20,206	17,25	130	191	1	011451725	71,835
11,25	94	142	5	011451125	20,206	17,5	130	191	1	011451750	71,835
11,3	94	142	5	011451130	20,206	17,75	130	191	1	011451775	71,835
11,4	94	142	5	011451140	20,206	18	130	191	1	011451800	71,835
11,5	94	142	5	011451150	18,372	18,25	135	198	1	011451825	82,483
11,6	94	142	5	011451160	22,246	18,5	135	198	1	011451850	82,483
11,7	94	142	5	011451170	22,246	18,75	135	198	1	011451875	82,483
11,75	94	142	5	011451175	22,246	19	135	198	1	011451900	82,483
11,8	94	142	5	011451180	22,246	19,25	140	205	1	011451925	95,293
11,9	101	151	5	011451190	22,246	19,5	140	205	1	011451950	95,293
12	101	151	5	011451200	20,219	19,75	140	205	1	011451975	95,293
12,1	101	151	5	011451210	24,057	20	140	205	1	011452000	95,293
12,2	101	151	5	011451220	24,057						
12,25	101	151	5	011451225	24,057						
12,3	101	151	5	011451230	24,057						
12,4	101	151	5	011451240	24,057						
12,5	101	151	5	011451250	21,874						
12,6	101	151	5	011451260	26,205						
12,7	101	151	5	011451270	26,205						
12,75	101	151	5	011451275	26,205						
12,8	101	151	5	011451280	26,205						
12,9	101	151	5	011451290	26,205						
13	101	151	5	011451300	23,817						
13,1	101	151	3	011451310	37,777						
13,2	101	151	3	011451320	37,777						
13,25	108	160	3	011451325	37,777						
13,3	108	160	3	011451330	37,777						
13,4	108	160	3	011451340	37,777						
13,5	108	160	3	011451350	37,777						
13,6	108	160	3	011451360	39,814						
13,7	108	160	3	011451370	39,814						
13,75	108	160	3	011451375	39,814						
13,8	108	160	3	011451380	39,814						
13,9	108	160	3	011451390	39,814						
14	108	160	3	011451400	39,814						
14,1	108	160	3	011451410	43,918						
14,2	114	169	3	011451420	43,918						
14,25	114	169	3	011451425	43,918						
14,3	114	169	3	011451430	43,918						
14,4	114	169	3	011451440	43,918						
14,5	114	169	3	011451450	43,918						
14,6	114	169	3	011451460	46,171						
14,7	114	169	3	011451470	46,171						
14,75	114	169	3	011451475	46,171						
14,8	114	169	3	011451480	46,171						
14,9	114	169	3	011451490	46,171						
15	114	169	3	011451500	46,171						
15,1	120	178	3	011451510	46,171						
15,2	120	178	3	011451520	46,171						
15,25	120	178	3	011451525	46,171						
15,3	120	178	3	011451530	53,128						

**PUNTE ELICOIDALI AL COBALTO 5% CON CODOLO RIDOTTO,
ESECUZIONE RETTIFICATA, SERIE CORTA**
Cobalt twist drills ground from the solid

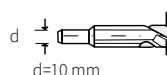
01147

HSS-CO 5%

DIN 338

Codolo ridotto - 10mm

Reduced shank - 10mm



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	011471025	17,897
10,5	87	133	10	5	011471050	16,505
10,75	94	142	10	5	011471075	19,907
11	94	142	10	5	011471100	18,322
11,25	94	142	10	5	011471125	21,465
11,5	94	142	10	5	011471150	19,748
11,75	94	142	10	5	011471175	23,374
12	101	151	10	5	011471200	21,478
12,25	101	151	10	5	011471225	25,081
12,5	101	151	10	5	011471250	23,027
12,75	101	151	10	5	011471275	27,079
13	101	151	10	5	011471300	24,845
13,25	108	160	10	3	011471325	38,510
13,5	108	160	10	3	011471350	38,510
13,75	108	160	10	3	011471375	39,519
14	108	160	10	3	011471400	39,519
14,25	114	169	10	3	011471425	44,684
14,5	114	169	10	3	011471450	44,684
14,75	114	169	10	3	011471475	46,143
15	114	169	10	3	011471500	46,143
15,25	120	178	10	3	011471525	53,666
15,5	120	178	10	3	011471550	53,666
15,75	120	178	10	3	011471575	55,596
16	120	178	10	3	011471600	55,596
16,5	125	184	10	1	011471650	56,471
17	125	184	10	1	011471700	56,471
17,5	130	191	10	1	011471750	72,695
18	130	191	10	1	011471800	72,695
18,5	135	198	10	1	011471850	83,439
19	135	198	10	1	011471900	83,439
19,5	140	205	10	1	011471950	97,057
20	140	205	10	1	011472000	97,057

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².



Art. 01151 Self
Disponibile su richiesta
On demand

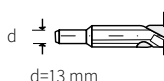
**PUNTE ELICOIDALI AL COBALTO 5% CON CODOLO RIDOTTO,
ESECUZIONE RETTIFICATA, SERIE CORTA**
Cobalt twist drills ground from the solid

01146

HSS-CO 5%

DIN 338

Codolo ridotto - 13mm
Reduced shank - 13mm



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	011461325	38,510
13,5	108	160	13	3	011461350	38,510
13,75	108	160	13	3	011461375	39,519
14	108	160	13	3	011461400	39,519
14,25	114	169	13	3	011461425	44,684
14,5	114	169	13	3	011461450	44,684
14,75	114	169	13	3	011461475	46,143
15	114	169	13	3	011461500	46,143
15,25	120	178	13	3	011461525	53,666
15,5	120	178	13	3	011461550	53,666
15,75	120	178	13	3	011461575	55,596
16	120	178	13	3	011461600	55,596
16,5	125	184	13	1	011461650	56,471
17	125	184	13	1	011461700	56,471
17,5	130	191	13	1	011461750	72,695
18	130	191	13	1	011461800	72,695
18,5	135	198	13	1	011461850	83,439
19	135	198	13	1	011461900	83,439
19,5	140	205	13	1	011461950	97,057
20	140	205	13	1	011462000	97,057
20,5	145	213	13	1	011462050	100,997
21	145	213	13	1	011462100	100,997
21,5	150	221	13	1	011462150	102,364
22	150	221	13	1	011462200	102,364
22,5	150	221	13	1	011462250	109,945
23	155	229	13	1	011462300	109,945
23,5	155	229	13	1	011462350	118,615
24	160	236	13	1	011462400	118,615
24,5	160	236	13	1	011462450	127,637
25	160	236	13	1	011462500	127,637

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

**PUNTE ELICOIDALI AL COBALTO 5%,
SERIE EXTRA CORTA**
Cobalt straight shank twist drills, stub serie

01149

HSS-CO 5%

DIN 1897

Extra corta
Extra short serie



W 27°



HV = 800-860
AISI M35
SPLIT POINT
DIN 1412 C



<3d



Confezione
Packaging



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø	l	L	pcs.	cod.	€ cad/each
3	16	46	10	011490300	2,187
3,2	18	49	10	011490320	2,532
3,25	18	49	10	011490325	2,781
3,5	20	52	10	011490350	2,781
3,75	20	52	10	011490375	3,065
4	22	55	10	011490400	3,065
4,2	22	55	10	011490420	3,262
4,25	22	55	10	011490425	3,496
4,5	24	58	10	011490450	3,496
4,75	24	58	10	011490475	3,719
5	26	62	10	011490500	3,719
5,25	26	62	10	011490525	4,059
5,5	28	66	10	011490550	5,053
5,75	28	66	10	011490575	5,251
6	28	66	10	011490600	5,251
6,5	31	70	10	011490650	5,475
7	34	74	10	011490700	6,615
7,5	34	74	5	011490750	7,596
8	37	79	5	011490800	9,371
8,5	37	79	5	011490850	9,811
9	40	84	5	011490900	11,424
9,5	40	84	5	011490950	12,519
10	43	89	5	011491000	15,123

Punte speciali per la foratura di lamiera e tubi in acciaio inox e lamiera metalliche in genere (acciaio, ferro, rame). Speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori.



*Super short twist drills for cutting stainless metal sheets.
Special for journeymen's, carpenters, locksmith's, tinsmith's.*

01051

HSS-CO 5%

NORMA KRINO

Super corta
Super short serie



W 27°



HV = 800-860
AISI M35
SPLIT POINT
DIN 1412 C



<3d



Confezione
Packaging



Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

Ø	l	L	pcs.	cod.	€ cad/each
3	16	35	10	010510300	1,484
3,25	19	40	10	010510325	1,484
3,5	19	40	10	010510350	1,484
3,75	19	40	10	010510375	2,111
4	20	40	10	010510400	2,231
4,25	20	40	10	010510425	2,425
4,5	23	42	10	010510450	2,805
5	23	45	10	010510500	3,108

Punte speciali per la foratura di lamiera e tubi in acciaio inox e lamiera metalliche in genere (acciaio, ferro, rame). Speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori.



*Super short twist drills for cutting stainless metal sheets.
Special for journeymen's, carpenters, locksmith's, tinsmith's.*

PUNTE ELICOIDALI AL COBALTO 5%,
ELICA CONTRAPPOSTA
Cobalt straight shank twist drills, double ended

01148

HSS-CO 5%

Elica contrapposta
Double ended



130°

W 27°



HV ≈ 800±860
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)



<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
2	10	38	10	011480200	2,947
2,5	10	43	10	011480250	2,947
3	10	46	10	011480300	2,947
3,25	10	49	10	011480325	3,767
3,5	12	52	10	011480350	3,413
3,75	12	55	10	011480375	4,038
4	12	55	10	011480400	3,659
4,1	12	55	10	011480410	4,523
4,25	12	58	10	011480425	4,523
4,5	12	58	10	011480450	4,125
4,75	13	62	10	011480475	5,301
4,9	13	62	10	011480490	4,825
5	13	62	10	011480500	4,825
5,1	13	62	10	011480510	5,840
5,5	16	66	10	011480550	5,840
6	16	66	10	011480600	6,909



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE AL COBALTO 5%, SERIE LUNGA

Cobalt long straight shank twist drills

01152

HSS-CO 5%

DIN 340

Serie lunga
Long serie



W 27°



HV = 800+860
AISI M35
SPLIT POINT
DIN 1412 C



<math>< -8 d</math>



Confezione
Packaging



Applicazioni
Applications



Inox
Stainless



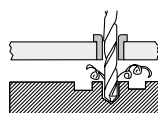
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Ø h8	l	L	 pcs.	cod.	€ cad/each
1	33	56	10	011520100	1,572
1,5	45	70	10	011520150	1,572
1,75	53	80	10	011520175	1,913
2	56	85	10	011520200	3,283
2,25	59	90	10	011520225	2,532
2,5	62	95	10	011520250	3,837
2,75	66	100	10	011520275	3,821
3	66	100	10	011520300	4,110
3,25	69	106	10	011520325	4,580
3,5	73	112	10	011520350	4,580
3,75	73	112	10	011520375	5,729
4	78	119	10	011520400	5,729
4,25	78	119	10	011520425	6,840
4,5	82	126	10	011520450	6,840
4,75	82	126	10	011520475	7,264
5	87	132	10	011520500	7,264
5,25	87	132	10	011520525	9,101
5,5	91	139	10	011520550	9,101
5,75	91	139	10	011520575	9,814
6	91	139	10	011520600	9,814
6,25	97	148	5	011520625	11,747
6,5	97	148	5	011520650	11,747
6,75	97	148	5	011520675	13,646
7	102	156	5	011520700	13,646
7,25	102	156	5	011520725	14,842
7,5	102	156	5	011520750	14,842
7,75	109	165	5	011520775	17,525
8	109	165	5	011520800	17,525
8,25	109	165	5	011520825	18,613
8,5	109	165	5	011520850	18,613
8,75	115	175	5	011520875	21,756
9	115	175	5	011520900	21,756
9,25	115	175	5	011520925	24,112
9,5	115	175	5	011520950	24,112
9,75	121	184	5	011520975	28,041
10	121	184	5	011521000	28,041
10,25	121	184	5	011521025	30,401
10,5	121	184	5	011521050	33,252
10,75	128	195	5	011521075	33,741
11	128	195	5	011521100	38,340
11,25	128	195	5	011521125	36,687
11,5	128	195	5	011521150	41,722
11,75	134	205	5	011521175	42,361
11,8	134	205	5	011521180	42,361
12	134	205	5	011521200	48,171
12,25	134	205	5	011521225	45,531
12,5	134	205	5	011521250	51,774
12,75	134	205	5	011521275	48,733
13	134	205	5	011521300	55,409
13,5	140	214	3	011521350	62,920
14	140	214	3	011521400	62,920
14,5	144	220	3	011521450	71,007
15	144	220	3	011521500	71,007
15,5	149	227	3	011521550	83,709
16	149	227	3	011521600	83,709
16,5	154	235	1	011521650	95,920
17	154	235	1	011521700	95,920
17,5	158	241	1	011521750	110,595
18	158	241	1	011521800	110,595
18,5	162	247	1	011521850	137,790
19	162	247	1	011521900	137,790
19,5	166	254	1	011521950	157,621
20	166	254	1	011522000	157,621

**PUNTE ELICOIDALI IN POLLICI AL COBALTO 5%,
ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA**
Cobalt twist drills ground from the solid in inches

01157

HSS-CO 5% ANSI B94

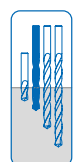
Serie corta - Pollici
Short series - Inches



W 27°



HV ≈800÷860
AISI M35
SPLIT POINT
DIN 1412 C



<5 d



Confezione
Packaging



Ø inch	Ø mm	l inch	L inch	pcs.	cod.	€ cad/each
1/16	1,59	7/8	1-7/8	10	0115714	2,365
5/64	1,98	1"	2"	10	0115715	2,365
3/32	2,38	1-1/4	2-1/4	10	0115716	2,458
7/64	2,78	1-1/2	2-5/8	10	0115717	2,458
1/8	3,17	1-5/8	2-3/4	10	0115718	2,458
9/64	3,57	1-3/4	2-7/8	10	0115719	2,994
5/32	3,97	2	3-1/8	10	0115720	3,211
11/64	4,37	2-1/8	3-1/4	10	0115721	3,640
3/16	4,76	2-5/16	3-1/2	10	0115722	3,949
13/64	5,16	2-7/16	3-5/8	10	0115723	4,377
7/32	5,56	2-1/2	3-3/4	10	0115724	5,238
15/64	5,95	2-5/8	3-7/8	10	0115725	5,238
1/4	6,35	2-3/4	4"	10	0115726	6,971
17/64	6,75	2-7/8	4-1/8	10	0115727	8,836
9/32	7,14	2-15/16	4-1/4	5	0115728	9,063
19/64	7,54	3-1/16	4-3/8	5	0115729	9,412
5/16	7,94	3-3/16	4-1/2	5	0115730	10,098
21/64	8,33	3-5/16	4-5/8	5	0115731	10,797
11/32	8,73	3-7/16	4-3/4	5	0115732	13,001
23/64	9,13	3-1/2	4-7/8	5	0115733	13,214
3/8	9,52	3-5/8	5"	5	0115734	14,746
25/64	9,92	3-3/4	5-1/8	5	0115735	15,445
13/32	10,32	3-7/8	5-1/4	5	0115736	19,472
27/64	10,72	3-15/16	5-3/8	5	0115737	22,763
7/16	11,11	4-1/16	5-1/2	5	0115738	23,797
29/64	11,51	4-3/16	5-5/8	5	0115739	23,797
15/32	11,91	4-5/16	5-3/4	5	0115740	26,469
31/64	12,30	4-7/16	5-7/8	5	0115741	28,887
1/2	12,70	4-1/2	6"	5	0115742	29,410

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

01 Taglio altamente professionale

High quality cuts

Taglio altamente professionale con trapani portatili o stazionari in: acciai legati ed altamente legati, acciaio inox fino a $R \leq 900 \text{ N/mm}^2$, ferro, alluminio, metalli.

High quality cuts with portable or bench drilling machines into: alloy steel, high alloy steel, stainless steel up to $R \leq 900 \text{ N/mm}^2$, iron, aluminium, metals.

02 3 pianetti antislittamento ($\varnothing > 5 \text{ mm}$)

3 plats antirotation ($\varnothing > 5 \text{ mm}$)

Piena trasmissione della potenza

Full power transmission

03 Cave ampie e lisce

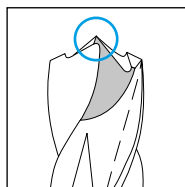
Wide and smooth flutes

Facile estrazione dei trucioli

Easy chip removal

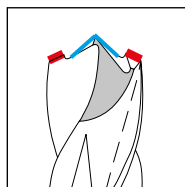
04 Affilatura speciale

Special Sharpening



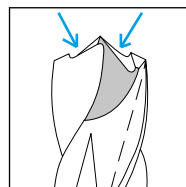
Micro punta autocentrante:
Facile centratura sul pezzo
e agevole partenza del taglio.

Micro self-centering tip:
Easiness of spot-drilling and start cut.



**Doppia coppia di taglienti
con spoglia variabile:**
Massima capacità di taglio con
grande durata del filo tagliente.

*Double couple of cutting edges
with variable relief:*
*Maximum cutting capacity,
with high resistance of the cutting edges.*



Coppia di rompitruciolo:
Evita la formazione di
taglienti di riporto.

Double chip-breaker:
*Avoid the creation of
built-up cutting edges.*



PUNTE ELICOIDALI CILINDRICHE
RETTIFICATE A DOPPIO CONOIDE
HSS-G fully ground twist drills "Speedmaster®"

Speedmaster®

01220

HSS-G

DIN 338
Ground from the solid

Serie corta
Short serie



W 27°



AISI M2
HV = 820÷850
SPLIT POINT
(Ø ≥ 2,5 mm)



<5 d

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



Art. 01221 Self
Disponibile su richiesta
On demand



Confezione
Packaging



Doppio conoide
Double conoid

Ø h8	l	L	pcs. 	cod.	€ cad/each
1	12	34	10	012200100	1,804
1,25	16	38	10	012200125	1,979
1,5	18	40	10	012200150	1,804
1,75	22	46	10	012200175	1,979
2	24	49	10	012200200	1,804
2,25	27	53	10	012200225	2,007
2,5	30	57	10	012200250	1,831
2,75	33	61	10	012200275	2,157
3	33	61	10	012200300	1,953
3,1	33	61	10	012200310	2,241
3,25	36	65	10	012200325	2,521
3,3	36	65	10	012200330	2,292
3,5	39	70	10	012200350	2,292
3,75	39	70	10	012200375	2,780
4	43	75	10	012200400	2,521
4,1	43	75	10	012200410	2,897
4,25	43	75	10	012200425	3,011
4,3	43	75	10	012200430	3,011
4,5	47	80	10	012200450	2,725
4,75	47	80	10	012200475	3,444
5	52	86	10	012200500	3,282
5,1	52	86	10	012200510	4,461
5,25	52	86	10	012200525	4,461
5,5	57	93	10	012200550	4,135
5,75	57	93	10	012200575	4,841
6	57	93	10	012200600	4,407
6,25	63	101	10	012200625	5,709
6,5	63	101	10	012200650	5,195
6,75	69	109	10	012200675	6,685
7	69	109	10	012200700	6,075
7,25	69	109	5	012200725	7,160
7,5	69	109	5	012200750	6,495
7,75	75	117	5	012200775	8,407
8	75	117	5	012200800	8,001
8,25	75	117	5	012200825	9,194
8,5	75	117	5	012200850	8,651
8,75	81	125	5	012200875	10,903
9	81	125	5	012200900	9,900
9,25	81	125	5	012200925	11,553
9,5	81	125	5	012200950	10,847
9,75	87	133	5	012200975	13,070
10	87	133	5	012201000	12,462
10,25	87	133	5	012201025	14,427
10,5	87	133	5	012201050	13,492
10,75	94	142	5	012201075	16,746
11	94	142	5	012201100	15,228
11,25	94	142	5	012201125	18,211
11,5	94	142	5	012201150	16,542
11,75	94	142	5	012201175	20,299
12	101	151	5	012201200	18,996
12,25	101	151	5	012201225	21,899
12,5	101	151	5	012201250	20,367
12,75	101	151	5	012201275	23,323
13	101	151	5	012201300	21,777

Taglio altamente professionale con trapani portatili o stazionari in: acciai legati ed altamente legati, acciaio inox fino a R ≤ 900 N/mm², ferro, alluminio, metalli.

High quality cuts with portable or bench drilling machines into: alloy steel, high alloy steel, stainless steel up to R ≤ 900 N/mm², iron, aluminium, metals.



01 **Fori perfetti** *Perfect holes*

La speciale geometria della punta a gradino ($\varnothing \geq 3$ mm) permette di eseguire fori estremamente precisi nelle dimensioni e perfettamente circolari nella forma.

The special geometry of the step drill bit ($\varnothing \geq 3$ mm) permits making holes that are extremely precise in size and perfectly circular in shape.

02 **30% più veloce** *30% Faster*

La punta STEP+ risulta il 30% più veloce rispetto ad una punta elicoidale con affilatura tradizionale.

The STEP+ drill bit is 30% faster than a traditionally sharpened helical drill bit

03 **Elevata durata** *High durability*

La punta STEP+ garantisce un'elevata costanza di rendimento ed una prolungata vita utile anche in condizioni d'uso intensivo.

The STEP+ drill bit guarantees high consistency of performance and prolonged tool life even under intensive use.

04 **Pratica, anche su superfici tonde** *Practical, even on round surfaces*

La STEP+ infatti non «strappa» mai, il foro viene eseguito dolcemente senza generare eccessiva forza torcente.

The STEP+ never "tears" and the hole is drilled smoothly without generating excessive torque.

05 **Versatile** *Versatile*

STEP+ risulta estremamente pratica anche per allargare fori pre esistenti, e risulta efficace anche su svariati materiali solidi come plastica e legno.

STEP+ is also extremely practical for enlarging preexisting holes, and is also effective on a variety of solid materials such as plastic and wood.



PUNTE ELICOIDALI CILINDRICHE
CON GEOMETRIA A GRADINO
HSS-G fully ground twist drills whit step geometry

STEP+

01401

HSS-G

DIN 338
Ground from the solid

Serie corta
Short serie



$\varnothing \geq 3 \text{ mm}$



W 27°



<5 d



Confezione
Packaging



\varnothing	<i>l</i>	L	n° gradini n° steps	pcs.	cod.	€ cad/each
1	12	34	-	10	014010100	1,714
1.5	18	40	-	10	014010150	1,714
2	24	49	-	10	014010200	1,714
2.5	30	57	-	10	014010250	1,739
3	33	61	1	10	014010300	1,855
3.2	36	65	1	10	014010320	2,395
3.5	39	70	1	10	014010350	2,177
4	43	75	1	10	014010400	2,395
4.2	43	75	2	10	014010420	2,752
4.5	47	80	2	10	014010450	2,860
4.8	52	86	2	10	014010480	2,589
5	52	86	2	10	014010500	3,118
5.2	52	86	2	10	014010520	4,238
5.5	57	93	3	10	014010550	3,928
6	57	93	3	10	014010600	4,187
6.5	63	101	3	10	014010650	4,935
7	69	109	4	10	014010700	5,771
7.5	69	109	4	5	014010750	6,170
8	75	117	5	5	014010800	7,601
8.5	75	117	5	5	014010850	8,218
9	81	125	5	5	014010900	9,405
9.5	81	125	6	5	014010950	10,305
10	87	133	6	5	014011000	11,839
10.5	87	133	7	5	014011050	12,817
11	94	142	7	5	014011100	14,467
11.5	94	142	8	5	014011150	15,715
12	101	151	8	5	014011200	18,046
12.5	101	151	8	5	014011250	19,349
13	101	151	8	5	014011300	20,688

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



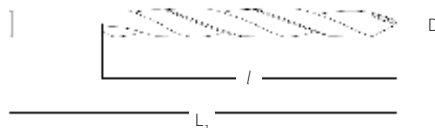
Emulsione
Lubrificant



Plastica
Plastic



Legno
Wood



La speciale geometria della punta a gradino ($\varnothing \geq 3 \text{ mm}$) permette di eseguire fori estremamente precisi nelle dimensioni e perfettamente circolari nella forma. Ideale per un utilizzo manuale in lavorazioni in cui è richiesta un'ottima precisione, in particolare su lamiere di ridotti spessori, profilati in alluminio, ecc.

PUNTE ELICOIDALI CILINDRICHE CON RIVESTIMENTO AL NITRURO DI TITANIO SUI TAGLIENTI E CON ANGOLO AL VERTICE DI 118°

TiN coated twist drills

01320

HSS-G

TiN

DIN 338 - 118° RIVESTITA SUI TAGLIENTI
Titanium coated

Serie corta - 118°
Short serie - 118°



W 27°



HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
($\varnothing \geq 2,5$ mm)



<5 d



Confezione
Packaging



R \leq 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals




Acciaio
Steel




Emulsione
Lubrificant

Rendimenti elevati e maggiore durata dei taglienti nella foratura degli acciai legati, nelle ghise e nei metalli in genere.

High level of performances in cutting alloy steel, cast iron, metals up to R \leq 900 N/mm².

\varnothing h8	l	L	 pcs.	cod.	€ cad/each
2	24	49	10	013200200	1,449
2,1	24	49	10	013200210	1,449
2,2	27	53	10	013200220	1,449
2,25	27	53	10	013200225	1,449
2,3	27	53	10	013200230	1,449
2,4	30	57	10	013200240	1,449
2,5	30	57	10	013200250	1,449
2,6	30	57	10	013200260	1,711
2,7	33	61	10	013200270	1,711
2,75	33	61	10	013200275	1,711
2,8	33	61	10	013200280	1,711
2,9	33	61	10	013200290	1,711
3	33	61	10	013200300	1,711
3,1	36	65	10	013200310	1,949
3,2	36	65	10	013200320	1,949
3,25	36	65	10	013200325	1,949
3,3	36	65	10	013200330	1,949
3,4	39	70	10	013200340	1,949
3,5	39	70	10	013200350	1,949
3,6	39	70	10	013200360	2,274
3,7	39	70	10	013200370	2,274
3,75	39	70	10	013200375	2,274
3,8	43	75	10	013200380	2,274
3,9	43	75	10	013200390	2,274
4	43	75	10	013200400	2,274
4,1	43	75	10	013200410	2,897
4,2	43	75	10	013200420	2,897
4,25	43	75	10	013200425	2,897
4,3	47	80	10	013200430	2,897
4,4	47	80	10	013200440	2,897
4,5	47	80	10	013200450	2,897
4,6	47	80	10	013200460	3,296
4,7	47	80	10	013200470	3,296
4,75	47	80	10	013200475	3,296
4,8	52	86	10	013200480	3,296
4,9	52	86	10	013200490	3,296
5	52	86	10	013200500	3,296
5,1	52	86	10	013200510	4,034
5,2	52	86	10	013200520	4,034
5,25	52	86	10	013200525	4,034
5,3	52	86	10	013200530	4,034
5,4	57	93	10	013200540	4,034
5,5	57	93	10	013200550	4,034
5,6	57	93	10	013200560	4,471
5,7	57	93	10	013200570	4,471
5,75	57	93	10	013200575	4,471
5,8	57	93	10	013200580	4,471
5,9	57	93	10	013200590	4,471
6	57	93	10	013200600	4,471
6,1	63	101	10	013200610	5,258
6,2	63	101	10	013200620	5,258
6,25	63	101	10	013200625	5,258
6,3	63	101	10	013200630	5,258
6,4	63	101	10	013200640	5,258
6,5	63	101	10	013200650	5,258
6,6	63	101	10	013200660	5,920
6,7	63	101	10	013200670	5,920
6,75	69	109	10	013200675	5,920
6,8	69	109	10	013200680	5,920
6,9	69	109	10	013200690	5,920
7	69	109	10	013200700	5,920
7,1	69	109	5	013200710	6,882
7,2	69	109	5	013200720	6,882

Ø h8	l	L	 pcs.	cod.	€ cad/each	Ø h8	l	L	pcs.	cod.	€ cad/each
7,25	69	109	5	013200725	6,882	10,2	87	133	5	013201020	14,726
7,3	69	109	5	013200730	6,882	10,25	87	133	5	013201025	14,726
7,4	69	109	5	013200740	6,882	10,3	87	133	5	013201030	14,726
7,5	69	109	5	013200750	6,882	10,4	87	133	5	013201040	14,726
7,6	75	117	5	013200760	8,355	10,5	87	133	5	013201050	14,726
7,7	75	117	5	013200770	8,355	10,6	87	133	5	013201060	16,124
7,75	75	117	5	013200775	8,355	10,7	94	142	5	013201070	16,124
7,8	75	117	5	013200780	8,355	10,75	94	142	5	013201075	16,124
7,9	75	117	5	013200790	8,355	10,8	94	142	5	013201080	16,124
8	75	117	5	013200800	8,355	10,9	94	142	5	013201090	16,124
8,1	75	117	5	013200810	9,892	11	94	142	5	013201100	16,124
8,2	75	117	5	013200820	9,892	11,1	94	142	5	013201110	17,485
8,25	75	117	5	013200825	9,892	11,2	94	142	5	013201120	17,485
8,3	75	117	5	013200830	9,892	11,25	94	142	5	013201125	17,485
8,4	75	117	5	013200840	9,892	11,3	94	142	5	013201130	17,485
8,5	75	117	5	013200850	9,892	11,4	94	142	5	013201140	17,485
8,6	81	125	5	013200860	10,827	11,5	94	142	5	013201150	17,485
8,7	81	125	5	013200870	10,827	11,6	94	142	5	013201160	19,320
8,75	81	125	5	013200875	10,827	11,7	94	142	5	013201170	19,320
8,8	81	125	5	013200880	10,827	11,75	94	142	5	013201175	19,320
8,9	81	125	5	013200890	10,827	11,8	94	142	5	013201180	19,320
9	81	125	5	013200900	10,827	11,9	101	151	5	013201190	19,320
9,1	81	125	5	013200910	12,015	12	101	151	5	013201200	19,320
9,2	81	125	5	013200920	12,015	12,1	101	151	5	013201210	21,382
9,25	81	125	5	013200925	12,015	12,2	101	151	5	013201220	21,382
9,3	81	125	5	013200930	12,015	12,25	101	151	5	013201225	21,382
9,4	81	125	5	013200940	12,015	12,3	101	151	5	013201230	21,382
9,5	81	125	5	013200950	12,015	12,4	101	151	5	013201240	21,382
9,6	87	133	5	013200960	13,214	12,5	101	151	5	013201250	21,382
9,7	87	133	5	013200970	13,214	12,6	101	151	5	013201260	23,381
9,75	87	133	5	013200975	13,214	12,7	101	151	5	013201270	23,381
9,8	87	133	5	013200980	13,352	12,75	101	151	5	013201275	23,381
9,9	87	133	5	013200990	13,352	12,8	101	151	5	013201280	23,381
10	87	133	5	013201000	13,352	12,9	101	151	5	013201290	23,381
10,1	87	133	5	013201010	14,726	13	101	151	5	013201300	23,381

Caratteristiche del rivestimento TiN

Features of TiN coating

Il rivestimento monostrato TiN ha lo scopo di incrementare la resistenza a fenomeni di usura e ossidazione cui gli utensili sono sottoposti durante le lavorazioni di foratura: ha ottime caratteristiche di microdurezza (HV 0.05 2300), un basso coefficiente di attrito (0.4), una temperatura massima di esercizio pari a 500°C. Il rivestimento di pochi µm, depositato per via fisica mediante vapore (Physical Vapour Deposition), consente pertanto di aumentare la vita utile degli utensili da taglio, migliorando anche la finitura superficiale ed il conseguente scorrimento dei trucioli di lavorazione.

TiN monolayer coating can increase both wear and oxidation resistance of every tool. It has high hardness (HV 0.05 2300), low friction coefficient (0.4), maximum working temperature 500°C. The coating thickness is very low (µm) and it's produced by Physical Vapour Deposition. TiN coating increases the life cycle of the tool, also improving the surface finishing and the drilling chips removal.

PUNTE ELICOIDALI CILINDRICHE CON RIVESTIMENTO AL NITRURO DI TITANIO

TiN coated twist drills

01160

HSS-G

TiN

DIN 338 RETTIFICATA
Titanium coated

Serie corta
Short serie



W 27°



HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
($\varnothing \geq 2,5$ mm)



<5 d



Confezione
Packaging



$R \leq 900$ N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel




Emulsione
Lubrificant





Art. 01161 Self
Disponibile su richiesta
On demand

Rendimenti elevati e maggiore durata dei
taglienti nella foratura degli acciai legati, nelle
ghise e nei metalli in genere.

High level of performances in cutting alloy steel,
cast iron, metals up to $R \leq 900$ N/mm².

\varnothing h8	l	L	 pcs.	cod.	€ cad/each
1	12	34	10	011600100	1,383
1,1	14	36	10	011600110	1,383
1,2	16	38	10	011600120	1,383
1,25	16	38	10	011600125	1,250
1,3	16	38	10	011600130	1,250
1,4	18	40	10	011600140	1,250
1,5	18	40	10	011600150	1,168
1,6	20	43	10	011600160	1,558
1,7	20	43	10	011600170	1,558
1,75	22	46	10	011600175	1,410
1,8	22	46	10	011600180	1,463
1,9	22	46	10	011600190	1,463
2	24	49	10	011600200	1,342
2,1	24	49	10	011600210	1,558
2,2	27	53	10	011600220	1,558
2,25	27	53	10	011600225	1,558
2,3	27	53	10	011600230	1,558
2,4	30	57	10	011600240	1,558
2,5	30	57	10	011600250	1,410
2,6	30	57	10	011600260	1,907
2,7	33	61	10	011600270	1,907
2,75	33	61	10	011600275	1,907
2,8	33	61	10	011600280	1,907
2,9	33	61	10	011600290	1,907
3	33	61	10	011600300	1,733
3,1	36	65	10	011600310	2,069
3,2	36	65	10	011600320	2,069
3,25	36	65	10	011600325	2,069
3,3	36	65	10	011600330	2,069
3,4	39	70	10	011600340	2,069
3,5	39	70	10	011600350	1,880
3,6	39	70	10	011600360	2,176
3,7	39	70	10	011600370	2,176
3,75	39	70	10	011600375	2,176
3,8	43	75	10	011600380	2,176
3,9	43	75	10	011600390	2,176
4	43	75	10	011600400	1,973
4,1	43	75	10	011600410	2,606
4,2	43	75	10	011600420	2,606
4,25	43	75	10	011600425	2,606
4,3	47	80	10	011600430	2,606
4,4	47	80	10	011600440	2,606
4,5	47	80	10	011600450	2,365
4,6	47	80	10	011600460	2,832
4,7	47	80	10	011600470	2,832
4,75	47	80	10	011600475	2,832
4,8	52	86	10	011600480	2,832
4,9	52	86	10	011600490	2,832
5	52	86	10	011600500	2,578
5,1	52	86	10	011600510	3,451
5,2	52	86	10	011600520	3,451
5,25	52	86	10	011600525	3,451
5,3	52	86	10	011600530	3,451
5,4	57	93	10	011600540	3,451
5,5	57	93	10	011600550	3,144
5,6	57	93	10	011600560	3,788
5,7	57	93	10	011600570	3,788
5,75	57	93	10	011600575	3,788
5,8	57	93	10	011600580	3,788
5,9	57	93	10	011600590	3,788
6	57	93	10	011600600	3,438
6,1	63	101	10	011600610	4,244
6,2	63	101	10	011600620	4,244

Serie corta Short serie

Ø h8	l	L	 pcs.	cod.	€ cad/each	Ø h8	l	L	 pcs.	cod.	€ cad/each
6,25	63	101	10	011600625	4,244	10,5	87	133	5	011601050	10,731
6,3	63	101	10	011600630	4,244	10,75	94	142	5	011601075	12,758
6,4	63	101	10	011600640	4,244	11	94	142	5	011601100	11,590
6,5	63	101	10	011600650	3,854	11,25	94	142	5	011601125	13,886
6,6	63	101	10	011600660	4,728	11,5	94	142	5	011601150	12,625
6,7	63	101	10	011600670	4,728	11,75	94	142	5	011601175	14,652
6,75	69	109	10	011600675	4,728	12	101	151	5	011601200	15,043
6,8	69	109	10	011600680	4,728	12,25	101	151	5	011601225	16,047
6,9	69	109	10	011600690	4,728	12,5	101	151	5	011601250	16,384
7	69	109	10	011600700	4,284	12,75	101	151	5	011601275	17,847
7,1	69	109	5	011600710	5,856	13	101	151	5	011601300	17,325
7,2	69	109	5	011600720	5,856	13,5	108	160	3	011601350	25,969
7,25	69	109	5	011600725	5,856	14	108	160	3	011601400	27,985
7,3	69	109	5	011600730	5,856	14,5	114	169	3	011601450	31,020
7,4	69	109	5	011600740	5,856	15	114	169	3	011601500	33,357
7,5	69	109	5	011600750	5,319	15,5	120	178	3	011601550	36,860
7,6	75	117	5	011600760	6,810	16	120	178	3	011601600	39,141
7,7	75	117	5	011600770	6,810	16,5	125	184	1	011601650	42,608
7,75	75	117	5	011600775	6,810	17	125	184	1	011601700	45,222
7,8	75	117	5	011600780	6,810	17,5	130	191	1	011601750	49,133
7,9	75	117	5	011600790	6,810	18	130	191	1	011601800	51,962
8	75	117	5	011600800	6,190	18,5	135	198	1	011601850	56,186
8,1	75	117	5	011600810	8,273	19	135	198	1	011601900	59,339
8,2	75	117	5	011600820	8,273	19,5	140	205	1	011601950	61,247
8,25	75	117	5	011600825	8,273	20	140	205	1	011602000	64,079
8,3	75	117	5	011600830	8,273						
8,4	75	117	5	011600840	8,273						
8,5	75	117	5	011600850	7,507						
8,6	81	125	5	011600860	8,971						
8,7	81	125	5	011600870	8,971						
8,75	81	125	5	011600875	8,971						
8,8	81	125	5	011600880	8,971						
8,9	81	125	5	011600890	8,971						
9	81	125	5	011600900	8,165						
9,1	81	125	5	011600910	10,139						
9,2	81	125	5	011600920	10,139						
9,25	81	125	5	011600925	10,139						
9,3	81	125	5	011600930	10,139						
9,4	81	125	5	011600940	10,139						
9,5	81	125	5	011600950	9,224						
9,6	87	133	5	011600960	10,555						
9,7	87	133	5	011600970	10,555						
9,75	87	133	5	011600975	10,555						
9,8	87	133	5	011600980	10,555						
9,9	87	133	5	011600990	10,555						
10	87	133	5	011601000	9,602						
10,25	87	133	5	011601025	11,805						

Caratteristiche del rivestimento TiN

Features of TiN coating

Il rivestimento monostrato TiN ha lo scopo di incrementare la resistenza a fenomeni di usura e ossidazione cui gli utensili sono sottoposti durante le lavorazioni di foratura: ha ottime caratteristiche di microdurezza (HV 0.05 2300), un basso coefficiente di attrito (0.4), una temperatura massima di esercizio pari a 500°C. Il rivestimento di pochi µm, depositato per via fisica mediante vapore (Physical Vapour Deposition), consente pertanto di aumentare la vita utile degli utensili da taglio, migliorando anche la finitura superficiale ed il conseguente scorrimento dei trucioli di lavorazione.

TiN monolayer coating can increase both wear and oxidation resistance of every tool. It has high hardness (HV 0.05 2300), low friction coefficient (0.4), maximum working temperature 500°C. The coating thickness is very low (µm) and it's produced by Physical Vapour Deposition. TiN coating increases the life cycle of the tool, also improving the surface finishing and the drilling chips removal.

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO RIVESTITE AL NITRURO DI TITANIO

Reduced shank TiN coated twist drills

01163

HSS-G

TiN

DIN 338 RETTIFICATA
Titanium coated

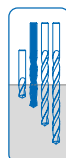
Codolo ridotto - 10mm
Reduced shank - 10mm



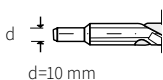
W 27°



HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)



<5 d



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Confezione
Packaging



Ø	h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	5	011631025	14,411
10,5	87	133	10	5	5	011631050	13,309
10,75	94	142	10	5	5	011631075	15,362
11	94	142	10	5	5	011631100	14,168
11,25	94	142	10	5	5	011631125	16,477
11,5	94	142	10	5	5	011631150	15,188
11,75	94	142	10	5	5	011631175	17,176
12	101	151	10	5	5	011631200	17,457
12,25	101	151	10	5	5	011631225	19,742
12,5	101	151	10	5	5	011631250	20,279
12,75	101	151	10	5	5	011631275	20,817
13	101	151	10	5	5	011631300	20,413
13,5	108	160	10	3	3	011631350	32,579
14	108	160	10	3	3	011631400	34,836
14,5	114	169	10	3	3	011631450	38,233
15	114	169	10	3	3	011631500	40,852
15,5	120	178	10	3	3	011631550	44,774
16	120	178	10	3	3	011631600	47,324
16,5	125	184	10	1	1	011631650	51,206
17	125	184	10	1	1	011631700	54,135
17,5	130	191	10	1	1	011631750	58,512
18	130	191	10	1	1	011631800	61,667
18,5	135	198	10	1	1	011631850	66,409
19	135	198	10	1	1	011631900	69,941
19,5	140	205	10	1	1	011631950	72,074
20	140	205	10	1	1	011632000	75,245

01164

HSS-G

TiN

DIN 338 RETTIFICATA
Titanium coated

Codolo ridotto - 13mm
Reduced shank - 13mm



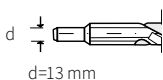
W 27°



HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)



<5 d



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Confezione
Packaging



Ø	h8	l	L	d	pcs.	cod.	€ cad/each
13,5	108	160	13	3	3	011641350	32,579
14	108	160	13	3	3	011641400	34,836
14,5	114	169	13	3	3	011641450	38,233
15	114	169	13	3	3	011641500	40,852
15,5	120	178	13	3	3	011641550	44,774
16	120	178	13	3	3	011641600	47,324
16,5	125	184	13	1	1	011641650	51,206
17	125	184	13	1	1	011641700	54,135
17,5	130	191	13	1	1	011641750	58,512
18	130	191	13	1	1	011641800	61,667
18,5	135	198	13	1	1	011641850	66,409
19	135	198	13	1	1	011641900	69,941
19,5	140	205	13	1	1	011641950	72,074
20	140	205	13	1	1	011642000	75,245

PUNTE ELICOIDALI CILINDRICHE RIVESTITE AL NITRURO DI TITANIO, SERIE EXTRA CORTA

HSS-G TiN coated twist drills, stub serie

01166

HSS-G

TiN

DIN 1897 RETTIFICATA
Titanium coated

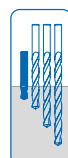
Serie extra corta
Extra short serie



W 27°



HV 0,05 = 2500
SPLIT POINT
DIN 1412C
(Ø ≥ 3 mm)



<3 d



Confezione
Packaging



Ø h8	l	L	pcs. 	cod.	€ cad/each
3	16	46	10	011660300	1,733
3,25	18	49	10	011660325	2,069
3,50	20	52	10	011660350	1,880
3,75	20	52	10	011660375	2,176
4	22	55	10	011660400	1,973
4,50	24	58	10	011660450	2,365
5	26	62	10	011660500	2,578
5,5	28	66	10	011660550	3,144
6	28	66	10	011660600	3,339
6,5	28	66	10	011660650	5,680



Applicazioni Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE RIVESTITE AL NITRURO DI TITANIO,
SERIE LUNGA
HSS-G TiN coated twist drills, long serie

01168

HSS-G

TiN

DIN 340 RETTIFICATA

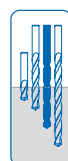
Serie lunga
Long serie



W 27°




HV 0,05 = 2500
SPLIT POINT
DIN 1412C
(Ø ≥ 3 mm)



$\leq 8 d$

Confezione
Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
3	66	100	10	011680300	3,303
3,25	69	106	10	011680325	3,479
3,5	73	112	10	011680350	3,479
3,75	73	112	10	011680375	3,867
4	78	119	10	011680400	3,867
4,25	78	119	10	011680425	4,445
4,5	82	126	10	011680450	4,445
4,75	82	126	10	011680475	5,009
5	87	132	10	011680500	5,009
5,25	87	132	10	011680525	5,856
5,5	91	139	10	011680550	5,856
5,75	91	139	10	011680575	6,447
6	91	139	10	011680600	6,447
6,5	97	148	5	011680650	6,782
7	102	156	5	011680700	8,729
7,5	102	156	5	011680750	10,474
8	109	165	5	011680800	12,758
8,5	109	165	5	011680850	14,948
9	115	175	5	011680900	16,384
9,5	115	175	5	011680950	17,996
10	121	184	5	011681000	20,951

$R \leq 900 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



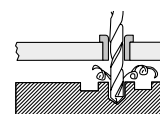
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE RIVESTITE AL NITRURO DI TITANIO,
SERIE CORTA, IN POLLICI
TiN coated twist drills

01162

HSS-G

TiN

ANSI B94 RETTIFICATA
Ground from the solid

Serie corta - Pollici
Short serie - Inches



W 27°



HV 0,05 = 2500
SPLIT POINT
DIN 1412 C



<5 d



Confezione
Packaging



Ø inch	Ø mm	l inch	L inch	pcs. pcs.	cod.	€ cad/each
1/16	1,59	7/8	1-7/8	10	0116214	1,088
5/64	1,98	1"	2"	10	0116215	1,196
3/32	2,38	1-1/4	2-1/4	10	0116216	1,437
7/64	2,78	1-1/2	2-5/8	10	0116217	1,786
1/8	3,17	1-5/8	2-3/4	10	0116218	1,894
9/64	3,57	1-3/4	2-7/8	10	0116219	2,109
5/32	3,97	2"	3-1/8	10	0116220	2,242
11/64	4,37	2-1/8	3-1/4	10	0116221	2,445
3/16	4,76	2-5/16	3-1/2	10	0116222	2,753
13/64	5,16	2-7/16	3-5/8	10	0116223	3,183
7/32	5,56	2-1/2	3-3/4	10	0116224	3,504
15/64	5,95	2-5/8	3-7/8	10	0116225	3,693
1/4	6,35	2-3/4	4"	10	0116226	3,949
17/64	6,75	2-7/8	4-1/8	10	0116227	4,434
9/32	7,14	2-15/16	4-1/4	5	0116228	5,117
19/64	7,54	3-1/16	4-3/8	5	0116229	5,452
5/16	7,94	3-3/16	4-1/2	5	0116230	5,936
21/64	8,33	3-5/16	4-5/8	5	0116231	8,030
11/32	8,73	3-7/16	4-3/4	5	0116232	8,406
23/64	9,13	3-1/2	4-7/8	5	0116233	8,944
3/8	9,52	3-5/8	5"	5	0116234	9,158
25/64	9,92	3-3/4	5-1/8	5	0116235	9,470
13/32	10,32	3-7/8	5-1/4	5	0116236	10,192
27/64	10,72	3-15/16	5-3/8	5	0116237	10,381
7/16	11,11	4-1/16	5-1/2	5	0116238	11,978
29/64	11,51	4-3/16	5-5/8	5	0116239	12,355
15/32	11,91	4-5/16	5-3/4	5	0116240	12,933
31/64	12,30	4-7/16	5-7/8	5	0116241	13,940
1/2	12,70	4-1/2	6"	5	0116242	15,430

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Rendimenti elevati e maggiore durata dei taglienti nella foratura degli acciai legati, nelle ghise e nei metalli in genere con R ≤ 900 N/mm².

High level of performances in cutting alloy steel, cast iron, metals up to R ≤ 900 N/mm².

PUNTE ELICOIDALI CILINDRICHE,
ESECUZIONE INTERAMENTE RETTIFICATA, "DUAL PERFORMER®"
Fully ground straight shank twist drills "Dual Performer®"

Dual Performer

01201

HSS-G

DIN 338 RETTIFICATA
Ground from the solid

Serie corta
Short serie

DUAL PERFORMER



W 27°



HV 0,05 = 2500
SPLIT POINT
DIN 1412C
(Ø ≥ 3 mm)



$\lt; 5 d$



Confezione
Packaging



$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel





Emulsione
Lubrificant

Taglio dei materiali con $R \leq 850 \text{ N/mm}^2$
quali acciai legati, ghise, tutti i metalli
in genere, la grafite.
Precisione di foratura e costanza
di rendimenti elevati.

High precision and high performances
in cutting alloy steel up to
 $R \leq 850 \text{ N/mm}^2$.

Ø h8	l	L	 pcs.	cod.	€ cad/each
0,3	3	19	10	012010030	2,959
0,35	4	19	10	012010035	2,959
0,4	5	20	10	012010040	2,959
0,45	5	20	10	012010045	2,959
0,5	6	22	10	012010050	2,959
0,55	7	24	10	012010055	2,959
0,6	7	24	10	012010060	2,959
0,65	8	26	10	012010065	2,959
0,7	9	28	10	012010070	2,959
0,75	9	28	10	012010075	2,959
0,8	10	30	10	012010080	2,959
0,85	10	30	10	012010085	2,959
0,9	11	32	10	012010090	2,959
0,95	11	32	10	012010095	2,959
1	12	34	10	012010100	1,652
1,1	14	36	10	012010110	1,746
1,2	16	38	10	012010120	1,746
1,25	16	38	10	012010125	1,746
1,3	16	38	10	012010130	1,746
1,4	18	40	10	012010140	1,746
1,5	18	40	10	012010150	1,531
1,6	20	43	10	012010160	1,424
1,7	20	43	10	012010170	1,424
1,75	22	46	10	012010175	1,424
1,8	22	46	10	012010180	1,424
1,9	22	46	10	012010190	1,424
2	24	49	10	012010200	1,262
2,1	24	49	10	012010210	1,520
2,2	27	53	10	012010220	1,520
2,25	27	53	10	012010225	1,520
2,3	27	53	10	012010230	1,520
2,4	30	57	10	012010240	1,520
2,5	30	57	10	012010250	1,383
2,6	30	57	10	012010260	1,786
2,7	33	61	10	012010270	1,786
2,75	33	61	10	012010275	1,786
2,8	33	61	10	012010280	1,786
2,9	33	61	10	012010290	1,786
3	33	61	10	012010300	1,624
3,1	36	65	10	012010310	2,015
3,2	36	65	10	012010320	2,015
3,25	36	65	10	012010325	2,015
3,3	36	65	10	012010330	2,015
3,4	39	70	10	012010340	2,015
3,5	39	70	10	012010350	1,827
3,6	39	70	10	012010360	2,096
3,7	39	70	10	012010370	2,096
3,75	39	70	10	012010375	2,096
3,8	43	75	10	012010380	2,096
3,9	43	75	10	012010390	2,096
4	43	75	10	012010400	1,921
4,1	43	75	10	012010410	2,458
4,2	43	75	10	012010420	2,458
4,25	43	75	10	012010425	2,458
4,3	47	80	10	012010430	2,458
4,4	47	80	10	012010440	2,458
4,5	47	80	10	012010450	2,336
4,6	47	80	10	012010460	2,606
4,7	47	80	10	012010470	2,606
4,75	47	80	10	012010475	2,606
4,8	52	86	10	012010480	2,606
4,9	52	86	10	012010490	2,606
5	52	86	10	012010500	2,445

∅ h8	l	L	 pcs.	cod.	€ cad/each	∅ h8	l	L	 pcs.	cod.	€ cad/each
5,1	52	86	10	012010510	3,332	11	94	142	5	012011100	13,523
5,2	52	86	10	012010520	3,332	11,25	94	142	5	012011125	16,491
5,25	52	86	10	012010525	3,332	11,5	94	142	5	012011150	14,423
5,3	52	86	10	012010530	3,332	11,75	94	142	5	012011175	17,941
5,4	57	93	10	012010540	3,332	12	101	151	5	012011200	15,550
5,5	57	93	10	012010550	3,196	12,25	101	151	5	012011225	19,540
5,6	57	93	10	012010560	3,693	12,5	101	151	5	012011250	17,002
5,7	57	93	10	012010570	3,693	12,75	101	151	5	012011275	22,131
5,75	57	93	10	012010575	3,693	13	101	151	5	012011300	17,941
5,8	57	93	10	012010580	3,693	13,25	108	160	3	012011325	27,168
5,9	57	93	10	012010590	3,693	13,5	108	160	3	012011350	24,670
6	57	93	10	012010600	3,491	13,75	108	160	3	012011375	27,987
6,1	63	101	10	012010610	4,607	14	108	160	3	012011400	25,449
6,2	63	101	10	012010620	4,607	14,25	114	169	3	012011425	31,963
6,25	63	101	10	012010625	4,607	14,5	114	169	3	012011450	29,034
6,3	63	101	10	012010630	4,607	14,75	114	169	3	012011475	37,521
6,4	63	101	10	012010640	4,607	15	114	169	3	012011500	34,111
6,5	63	101	10	012010650	4,244	15,25	120	178	3	012011525	41,066
6,6	63	101	10	012010660	5,359	15,5	120	178	3	012011550	37,321
6,7	63	101	10	012010670	5,359	15,75	120	178	3	012011575	42,545
6,75	69	109	10	012010675	5,359	16	120	178	3	012011600	38,665
6,8	69	109	10	012010680	5,359	16,5	125	184	1	012011650	40,006
6,9	69	109	10	012010690	5,359	17	125	184	1	012011700	41,966
7	69	109	10	012010700	4,968	17,5	130	191	1	012011750	43,981
7,1	69	109	5	012010710	5,881	18	130	191	1	012011800	46,748
7,2	69	109	5	012010720	5,881	18,5	135	198	1	012011850	50,884
7,25	69	109	5	012010725	5,881	19	135	198	1	012011900	52,550
7,3	69	109	5	012010730	5,881	19,5	140	205	1	012011950	55,047
7,4	69	109	5	012010740	5,881	20	140	205	1	012012000	57,679
7,5	69	109	5	012010750	5,264						
7,6	75	117	5	012010760	6,621						
7,7	75	117	5	012010770	6,621						
7,75	75	117	5	012010775	6,621						
7,8	75	117	5	012010780	6,621						
7,9	75	117	5	012010790	6,621						
8	75	117	5	012010800	6,246						
8,1	75	117	5	012010810	8,514						
8,2	75	117	5	012010820	8,514						
8,25	75	117	5	012010825	8,514						
8,3	75	117	5	012010830	8,514						
8,4	75	117	5	012010840	8,514						
8,5	75	117	5	012010850	8,111						
8,6	81	125	5	012010860	8,717						
8,7	81	125	5	012010870	8,717						
8,75	81	125	5	012010875	8,717						
8,8	81	125	5	012010880	8,717						
8,9	81	125	5	012010890	8,717						
9	81	125	5	012010900	8,313						
9,1	81	125	5	012010910	9,750						
9,2	81	125	5	012010920	9,750						
9,25	81	125	5	012010925	9,750						
9,3	81	125	5	012010930	9,750						
9,4	81	125	5	012010940	9,750						
9,5	81	125	5	012010950	9,280						
9,6	87	133	5	012010960	10,018						
9,7	87	133	5	012010970	10,018						
9,75	87	133	5	012010975	10,018						
9,8	87	133	5	012010980	10,018						
9,9	87	133	5	012010990	10,018						
10	87	133	5	012011000	9,548						
10,25	87	133	5	012011025	12,891						
10,5	87	133	5	012011050	11,281						
10,75	94	142	5	012011075	15,510						

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE
CON CODOLO RIDOTTO "DUAL PERFORMER®"
Fully ground straight shank twist drills "Dual Performer®"

Dual Performer

01203

HSS-G

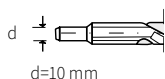
DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 10mm
Reduced shank - 10mm

DUAL PERFORMER



<5 d



d=10 mm

Confezione
Packaging



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

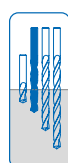
Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	012031025	15,483
10,5	87	133	10	5	012031050	13,858
10,75	94	142	10	5	012031075	18,089
11	94	142	10	5	012031100	16,088
11,25	94	142	10	5	012031125	19,070
11,5	94	142	10	5	012031150	17,014
11,75	94	142	10	5	012031175	20,506
12	101	151	10	5	012031200	18,142
12,25	101	151	10	5	012031225	22,104
12,5	101	151	10	5	012031250	19,553
12,75	101	151	10	5	012031275	24,722
13	101	151	10	5	012031300	20,506
13,25	108	160	10	3	012031325	31,224
13,5	108	160	10	3	012031350	28,390
13,75	108	160	10	3	012031375	32,203
14	108	160	10	3	012031400	29,263
14,25	114	169	10	3	012031425	36,729
14,5	114	169	10	3	012031450	33,398
14,75	114	169	10	3	012031475	43,150
15	114	169	10	3	012031500	39,227
15,25	120	178	10	3	012031525	47,218
15,5	120	178	10	3	012031550	42,921
15,75	120	178	10	3	012031575	48,923
16	120	178	10	3	012031600	44,465
16,5	125	184	10	1	012031650	45,996
17	125	184	10	1	012031700	48,253
17,5	130	191	10	1	012031750	50,588
18	130	191	10	1	012031800	53,758
18,5	135	198	10	1	012031850	58,512
19	135	198	10	1	012031900	60,432
19,5	140	205	10	1	012031950	63,319
20	140	205	10	1	012032000	66,341

01209

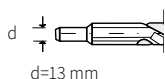
HSS-G

DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 13mm
Reduced shank - 13mm



<5 d



d=13 mm

Confezione
Packaging



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	012091325	31,224
13,5	108	160	13	3	012091350	28,390
13,75	108	160	13	3	012091375	32,203
14	108	160	13	3	012091400	29,263
14,25	114	169	13	3	012091425	36,729
14,5	114	169	13	3	012091450	33,398
14,75	114	169	13	3	012091475	43,150
15	114	169	13	3	012091500	39,227
15,25	120	178	13	3	012091525	47,218
15,5	120	178	13	3	012091550	42,921
15,75	120	178	13	3	012091575	48,923
16	120	178	13	3	012091600	44,465
16,5	125	184	13	1	012091650	45,996
17	125	184	13	1	012091700	48,253
17,5	130	191	13	1	012091750	50,588
18	130	191	13	1	012091800	53,758
18,5	135	198	13	1	012091850	58,512
19	135	198	13	1	012091900	60,432
19,5	140	205	13	1	012091950	63,319
20	140	205	13	1	012092000	66,341

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE,
SERIE EXTRA CORTA E LUNGA "DUAL PERFORMER®"
Straight shank twist drills, stub serie "Dual Performer®"

Dual Performer

01207

HSS-G

DIN 1897 RETTIFICATA
Ground from the solid

Serie extra corta
Extra short serie



W 27°



HV = 820
SPLIT POINT
DIN 1412C



<3 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	46	10	012070300	1,840
3,25	18	49	10	012070325	1,934
3,5	20	52	10	012070350	1,934
3,75	20	52	10	012070375	1,934
4	22	55	10	012070400	1,934
4,25	22	55	10	012070425	2,445
4,5	24	58	10	012070450	2,445
4,75	24	58	10	012070475	2,592
5	26	62	10	012070500	2,592
5,25	26	62	10	012070525	3,237
5,5	28	66	10	012070550	3,237
5,75	28	66	10	012070575	3,572
6	28	66	10	012070600	3,572

R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



01208

HSS-G

DIN 340 RETTIFICATA
Ground from the solid

Serie lunga
Long serie



W 27°



HV = 820
SPLIT POINT
DIN 1412C



<8 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	66	100	10	012080300	3,559
3,25	69	106	10	012080325	3,707
3,5	73	112	10	012080350	3,707
3,75	73	112	10	012080375	3,707
4	78	119	10	012080400	3,707
4,25	78	119	10	012080425	4,713
4,5	82	126	10	012080450	4,713
4,75	82	126	10	012080475	5,089
5	87	132	10	012080500	5,089
5,25	87	132	10	012080525	6,231
5,5	91	139	10	012080550	6,231
5,75	91	139	10	012080575	6,875
6	91	139	10	012080600	6,875
6,5	97	148	5	012080650	8,514
7	102	156	5	012080700	9,333
7,5	102	156	5	012080750	10,139
8	109	165	5	012080800	12,758
8,5	109	165	5	012080850	16,371
9	115	175	5	012080900	16,371
9,5	115	175	5	012080950	18,292
10	121	184	5	012081000	20,116

R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



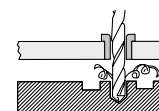
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE,
ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA
Fully ground straight shank twist drills

01060

HSS-G

DIN 338 RETTIFICATA

Ground from the solid

Serie corta

Short serie



W 27°



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø ≥ 2,5)



<5 d



Confezione
Packaging



MICRO DRILLS

Ø	l	L	pcs.	cod.	€ cad/each	Ø	l	L	pcs.	cod.	€ cad/each
h8						h8					
0,2	2,5	19	10	010600020	2,871	4,25	43	75	10	010600425	2,088
0,21	2,5	19	10	010600021	2,871	4,3	47	80	10	010600430	2,088
0,22	2,5	19	10	010600022	2,871	4,4	47	80	10	010600440	2,088
0,23	2,5	19	10	010600023	2,871	4,5	47	80	10	010600450	1,900
0,24	2,5	19	10	010600024	2,871	4,6	47	80	10	010600460	2,139
0,25	3	19	10	010600025	2,871	4,7	47	80	10	010600470	2,139
0,26	3	19	10	010600026	2,871	4,75	47	80	10	010600475	2,139
0,27	3	19	10	010600027	2,871	4,8	52	86	10	010600480	2,139
0,28	3	19	10	010600028	2,871	4,9	52	86	10	010600490	2,139
0,29	3	19	10	010600029	2,871	5	52	86	10	010600500	1,968
0,3	3	19	10	010600030	2,871	5,1	52	86	10	010600510	2,737
0,35	4	19	10	010600035	2,605	5,2	52	86	10	010600520	2,737
0,4	5	20	10	010600040	2,471	5,25	52	86	10	010600525	2,737
0,45	5	20	10	010600045	2,471	5,3	52	86	10	010600530	2,737
0,5	6	22	10	010600050	2,126	5,4	57	93	10	010600540	2,737
0,55	7	24	10	010600055	2,471	5,5	57	93	10	010600550	2,631
0,6	7	24	10	010600060	1,952	5,6	57	93	10	010600560	3,043
0,65	8	26	10	010600065	2,126	5,7	57	93	10	010600570	3,043
0,7	9	28	10	010600070	1,820	5,75	57	93	10	010600575	3,043
0,75	9	28	10	010600075	1,820	5,8	57	93	10	010600580	3,043
0,8	10	30	10	010600080	1,820	5,9	57	93	10	010600590	3,043
0,85	10	30	10	010600085	1,820	6	57	93	10	010600600	2,737
0,9	11	32	10	010600090	1,700	6,1	63	101	10	010600610	3,800
0,95	11	32	10	010600095	1,820	6,2	63	101	10	010600620	3,800
1	12	34	10	010600100	1,382	6,25	63	101	10	010600625	3,800
1,1	14	36	10	010600110	1,448	6,3	63	101	10	010600630	3,800
1,2	16	38	10	010600120	1,448	6,4	63	101	10	010600640	3,800
1,25	16	38	10	010600125	1,448	6,5	63	101	10	010600650	3,507
1,3	16	38	10	010600130	1,448	6,6	63	101	10	010600660	4,426
1,4	18	40	10	010600140	1,448	6,7	63	101	10	010600670	4,426
1,5	18	40	10	010600150	1,249	6,75	69	109	10	010600675	4,426
1,6	20	43	10	010600160	1,182	6,8	69	109	10	010600680	4,426
1,7	20	43	10	010600170	1,182	6,9	69	109	10	010600690	4,426
1,75	22	46	10	010600175	1,182	7	69	109	10	010600700	4,094
1,8	22	46	10	010600180	1,182	7,1	69	109	5	010600710	4,864
1,9	22	46	10	010600190	1,182	7,2	69	109	5	010600720	4,864
2	24	49	10	010600200	1,036	7,25	69	109	5	010600725	4,864
2,1	24	49	10	010600210	1,249	7,3	69	109	5	010600730	4,864
2,2	27	53	10	010600220	1,249	7,4	69	109	5	010600740	4,864
2,25	27	53	10	010600225	1,249	7,5	69	109	5	010600750	4,332
2,3	27	53	10	010600230	1,249	7,6	75	117	5	010600760	5,461
2,4	30	57	10	010600240	1,249	7,7	75	117	5	010600770	5,461
2,5	30	57	10	010600250	1,144	7,75	75	117	5	010600775	5,461
2,6	30	57	10	010600260	1,436	7,8	75	117	5	010600780	5,461
2,7	33	61	10	010600270	1,436	7,9	75	117	5	010600790	5,461
2,75	33	61	10	010600275	1,436	8	75	117	5	010600800	5,156
2,8	33	61	10	010600280	1,436	8,1	75	117	5	010600810	6,711
2,9	33	61	10	010600290	1,436	8,2	75	117	5	010600820	6,711
3	33	61	10	010600300	1,301	8,25	75	117	5	010600825	6,711
3,1	36	65	10	010600310	1,541	8,3	75	117	5	010600830	6,711
3,2	36	65	10	010600320	1,541	8,4	75	117	5	010600840	6,711
3,25	36	65	10	010600325	1,541	8,5	75	117	5	010600850	6,366
3,3	36	65	10	010600330	1,541	8,6	81	125	5	010600860	6,962
3,4	39	70	10	010600340	1,541	8,7	81	125	5	010600870	6,962
3,5	39	70	10	010600350	1,448	8,75	81	125	5	010600875	6,962
3,6	39	70	10	010600360	1,688	8,8	81	125	5	010600880	6,962
3,7	39	70	10	010600370	1,688	8,9	81	125	5	010600890	6,962
3,75	39	70	10	010600375	1,688	9	81	125	5	010600900	6,672
3,8	43	75	10	010600380	1,688	9,1	81	125	5	010600910	7,881
3,9	43	75	10	010600390	1,688	9,2	81	125	5	010600920	7,881
4	43	75	10	010600400	1,581	9,25	81	125	5	010600925	7,881
4,1	43	75	10	010600410	2,088	9,3	81	125	5	010600930	7,881
4,2	43	75	10	010600420	2,088	9,4	81	125	5	010600940	7,881

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals





Emulsione
Lubrificant

Taglio dei materiali con
R ≤ 800 N/mm² quali acciai legati,
ghise, tutti i metalli in genere, la
grafite. Precisione di foratura e
costanza di rendimenti elevati.

High precision and high performances
in cutting alloy steel up to
R ≤ 800 N/mm².

Serie corta
Short serie

Ø h8	l	L	 pcs.	cod.	€ cad/each	Ø h8	l	L	 pcs.	cod.	€ cad/each
9,5	81	125	5	010600950	7,175	14,75	114	169	3	010601475	25,702
9,6	87	133	5	010600960	8,346	14,8	114	169	3	010601480	25,702
9,7	87	133	5	010600970	8,346	14,9	114	169	3	010601490	25,702
9,75	87	133	5	010600975	8,346	15	114	169	3	010601500	23,415
9,8	87	133	5	010600980	8,346	15,1	120	178	3	010601510	29,262
9,9	87	133	5	010600990	8,346	15,2	120	178	3	010601520	29,262
10	87	133	5	010601000	7,508	15,25	120	178	3	010601525	29,262
10,1	87	133	5	010601010	10,670	15,3	120	178	3	010601530	29,262
10,2	87	133	5	010601020	10,670	15,4	120	178	3	010601540	29,262
10,25	87	133	5	010601025	10,670	15,5	120	178	3	010601550	27,480
10,3	87	133	5	010601030	10,670	15,6	120	178	3	010601560	29,262
10,4	87	133	5	010601040	10,670	15,7	120	178	3	010601570	29,262
10,5	87	133	5	010601050	9,314	15,75	120	178	3	010601575	29,262
10,6	87	133	5	010601060	12,785	15,8	120	178	3	010601580	29,262
10,7	94	142	5	010601070	12,785	15,9	120	178	3	010601590	29,262
10,75	94	142	5	010601075	12,785	16	120	178	3	010601600	29,037
10,8	94	142	5	010601080	12,785	16,25	125	184	1	010601625	29,262
10,9	94	142	5	010601090	12,785	16,5	125	184	1	010601650	29,262
11	94	142	5	010601100	11,150	16,75	125	184	1	010601675	31,096
11,1	94	142	5	010601110	13,580	17	125	184	1	010601700	31,096
11,2	94	142	5	010601120	13,580	17,25	130	191	1	010601725	31,096
11,25	94	142	5	010601125	13,580	17,5	130	191	1	010601750	32,797
11,3	94	142	5	010601130	13,580	17,75	130	191	1	010601775	32,797
11,4	94	142	5	010601140	13,580	18	130	191	1	010601800	35,335
11,5	94	142	5	010601150	11,894	18,25	135	198	1	010601825	35,335
11,6	94	142	5	010601160	14,816	18,5	135	198	1	010601850	38,948
11,7	94	142	5	010601170	14,816	18,75	135	198	1	010601875	38,948
11,75	94	142	5	010601175	14,816	19	135	198	1	010601900	40,369
11,8	94	142	5	010601180	14,816	19,25	140	205	1	010601925	43,542
11,9	101	151	5	010601190	14,816	19,5	140	205	1	010601950	45,581
12	101	151	5	010601200	12,836	19,75	140	205	1	010601975	45,581
12,1	101	151	5	010601210	16,145	20	140	205	1	010602000	45,581
12,2	101	151	5	010601220	16,145						
12,25	101	151	5	010601225	16,145						
12,3	101	151	5	010601230	16,145						
12,4	101	151	5	010601240	16,145						
12,5	101	151	5	010601250	14,004						
12,6	101	151	5	010601260	18,258						
12,7	101	151	5	010601270	18,258						
12,75	101	151	5	010601275	18,258						
12,8	101	151	5	010601280	18,258						
12,9	101	151	5	010601290	18,258						
13	101	151	5	010601300	15,109						
13,1	101	151	3	010601310	21,408						
13,2	101	151	3	010601320	21,408						
13,25	108	160	3	010601325	21,408						
13,3	108	160	3	010601330	21,408						
13,4	108	160	3	010601340	21,408						
13,5	108	160	3	010601350	19,228						
13,6	108	160	3	010601360	21,408						
13,7	108	160	3	010601370	21,408						
13,75	108	160	3	010601375	21,408						
13,8	108	160	3	010601380	21,408						
13,9	108	160	3	010601390	21,408						
14	108	160	3	010601400	19,759						
14,1	108	160	3	010601410	25,702						
14,2	114	169	3	010601420	25,702						
14,25	114	169	3	010601425	25,702						
14,3	114	169	3	010601430	25,702						
14,4	114	169	3	010601440	25,702						
14,5	114	169	3	010601450	21,914						
14,6	114	169	3	010601460	25,702						
14,7	114	169	3	010601470	25,702						

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO,
INTERAMENTE RETTIFICATE
Reduced shank twist drills

01062

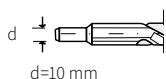
HSS-G

DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 10mm
Reduced shank - 10mm



$\leq d$




d=10 mm



Confezione
Packaging



\emptyset h8	l	L	d	 pcs.	cod.	€ cad/each
10,25	87	133	10	5	010621025	13,688
10,5	87	133	10	5	010621050	12,332
10,75	94	142	10	5	010621075	15,800
11	94	142	10	5	010621100	14,165
11,25	94	142	10	5	010621125	16,597
11,5	94	142	10	5	010621150	14,911
11,75	94	142	10	5	010621175	17,834
12	101	151	10	5	010621200	15,854
12,25	101	151	10	5	010621225	19,163
12,5	101	151	10	5	010621250	17,023
12,75	101	151	10	5	010621275	21,276
13	101	151	10	5	010621300	18,125
13,25	108	160	10	3	010621325	24,851
13,5	108	160	10	3	010621350	22,682
13,75	108	160	10	3	010621375	24,851
14	108	160	10	3	010621400	23,214
14,25	114	169	10	3	010621425	29,155
14,5	114	169	10	3	010621450	25,368
14,75	114	169	10	3	010621475	29,155
15	114	169	10	3	010621500	26,870
15,25	120	178	10	3	010621525	35,468
15,5	120	178	10	3	010621550	30,936
15,75	120	178	10	3	010621575	35,468
16	120	178	10	3	010621600	32,477
16,5	125	184	10	1	010621650	32,716
17	125	184	10	1	010621700	34,537
17,5	130	191	10	1	010621750	36,251
18	130	191	10	1	010621800	38,776
18,5	135	198	10	1	010621850	42,403
19	135	198	10	1	010621900	43,824
19,5	140	205	10	1	010621950	49,020
20	140	205	10	1	010622000	49,020

R \leq 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO, INTERAMENTE RETTIFICATE

Reduced shank twist drills

01063

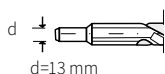
HSS-G

DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 13mm
Reduced shank - 13mm



$< d$




d=13 mm



Confezione
Packaging



\emptyset h8	l	L	d	 pcs.	cod.	€ cad/each
13,25	108	160	13	3	010631325	24,851
13,5	108	160	13	3	010631350	22,682
13,75	108	160	13	3	010631375	24,851
14	108	160	13	3	010631400	23,214
14,25	114	169	13	3	010631425	29,155
14,5	114	169	13	3	010631450	25,368
14,75	114	169	13	3	010631475	29,155
15	114	169	13	3	010631500	26,870
15,25	120	178	13	3	010631525	35,468
15,5	120	178	13	3	010631550	30,936
15,75	120	178	13	3	010631575	35,468
16	120	178	13	3	010631600	32,477
16,5	125	184	13	1	010631650	32,716
17	125	184	13	1	010631700	34,537
17,5	130	191	13	1	010631750	36,251
18	130	191	13	1	010631800	38,776
18,5	135	198	13	1	010631850	42,403
19	135	198	13	1	010631900	43,824
19,5	140	205	13	1	010631950	49,020
20	140	205	13	1	010632000	49,020
20,5	145	213	13	1	010632050	50,439
21	145	213	13	1	010632100	50,439
21,5	150	221	13	1	010632150	51,706
22	150	221	13	1	010632200	51,706
22,5	150	221	13	1	010632250	53,408
23	155	229	13	1	010632300	53,408
23,5	155	229	13	1	010632350	54,311
24	160	236	13	1	010632400	54,311
24,5	160	236	13	1	010632450	57,099
25	160	236	13	1	010632500	57,099

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



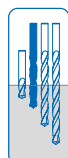
Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE SINISTRE, INTERAMENTE RETTIFICATE

Straight shank twist drills, left hand

01090**HSS-G****DIN 338 RETTIFICATA**
Ground from the solid**Serie corta - Sinistra**
Short serie - Left hand

W 27°

Confezione
Packaging

± d

R ≤ 800 N/mm²Applicazioni
ApplicationsAcciaio
SteelMetalli
MetalsEmulsione
Lubrificant

Ø h8	l	L	 pcs.	cod.	€ cad/each
1	12	34	10	010900100	3,716
1,5	18	40	10	010900150	2,937
2	24	49	10	010900200	2,937
2,1	24	49	10	010900210	2,937
2,2	27	53	10	010900220	2,937
2,3	27	53	10	010900230	2,937
2,4	30	57	10	010900240	2,937
2,5	30	57	10	010900250	2,937
2,6	30	57	10	010900260	2,937
2,7	33	61	10	010900270	2,937
2,8	33	61	10	010900280	2,937
2,9	33	61	10	010900290	2,937
3	33	61	10	010900300	2,937
3,2	36	65	10	010900320	3,604
3,3	36	65	10	010900330	3,604
3,4	36	65	10	010900340	6,938
3,5	39	70	10	010900350	3,604
3,7	39	70	10	010900370	3,964
3,8	43	75	10	010900380	3,964
4	43	75	10	010900400	3,964
4,1	43	75	10	010900410	4,558
4,2	43	75	10	010900420	4,558
4,5	47	80	10	010900450	4,558
4,6	47	80	10	010900460	4,930
4,7	47	80	10	010900470	4,930
4,8	52	86	10	010900480	4,930
5	52	86	10	010900500	4,930
5,1	52	86	10	010900510	6,676
5,2	52	86	10	010900520	6,676
5,5	57	93	10	010900550	6,676
5,8	57	93	10	010900580	7,309
6	57	93	10	010900600	7,309
6,2	57	101	10	010900620	15,767
6,3	57	101	10	010900630	16,257
6,5	63	101	10	010900650	8,868
7	69	109	10	010900700	10,652
7,5	69	109	5	010900750	12,028
7,8	69	117	5	010900780	22,979
8	75	117	5	010900800	12,919
8,5	75	117	5	010900850	13,649
8,7	75	117	5	010900870	28,113
9	81	125	5	010900900	16,760
9,5	81	125	5	010900950	18,096
10	87	133	5	010901000	19,868
10,5	87	133	5	010901050	24,958
11	94	142	5	010901100	29,242
11,5	94	142	5	010901150	30,606
12	101	151	5	010901200	33,901
12,5	101	151	5	010901250	36,973
13	101	151	5	010901300	37,753
13,5	101	151	5	010901350	58,656

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA CORTA,
INTERAMENTE RETTIFICATE
Straight shank twist drills, stub serie

01094

HSS-G

DIN 1897 RETTIFICATA

Ground from the solid

Serie extra corta

Extra short serie



W 27°



HV 820
SPLIT POINT
DIN 1412C
($\varnothing \geq 3$)



<3 d

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



Art. 01373 Self
Disponibile su richiesta
On demand

Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
1,5	9	32	10	010940150	0,996
2	12	38	10	010940200	0,996
2,2	13	40	10	010940220	1,208
2,25	13	40	10	010940225	1,208
2,5	14	43	10	010940250	1,103
2,75	16	46	10	010940275	1,369
2,8	16	46	10	010940280	1,369
3	16	46	10	010940300	1,369
3,1	18	49	10	010940310	1,503
3,2	18	49	10	010940320	1,503
3,25	18	49	10	010940325	1,503
3,5	20	52	10	010940350	1,503
3,7	20	52	10	010940370	1,661
3,75	20	52	10	010940375	1,661
3,8	22	55	10	010940380	1,661
4	22	55	10	010940400	1,661
4,1	22	55	10	010940410	2,073
4,2	22	55	10	010940420	2,073
4,25	22	55	10	010940425	2,073
4,5	24	58	10	010940450	1,887
4,75	24	58	10	010940475	2,113
4,8	26	62	10	010940480	2,113
5	26	62	10	010940500	1,968
5,1	26	62	10	010940510	2,764
5,2	26	62	10	010940520	2,764
5,25	26	62	10	010940525	2,764
5,5	28	66	10	010940550	2,605
5,75	28	66	10	010940575	3,110
5,8	28	66	10	010940580	3,110
6	28	66	10	010940600	2,911
6,25	31	70	10	010940625	3,496
6,5	31	70	10	010940650	3,496
6,75	34	74	10	010940675	4,078
7	34	74	10	010940700	4,078
7,25	34	74	5	010940725	4,332
7,5	34	74	5	010940750	4,332
7,75	37	79	5	010940775	5,264
8	37	79	5	010940800	5,264
8,25	37	79	5	010940825	7,043
8,5	37	79	5	010940850	7,043
8,75	40	84	5	010940875	8,081
9	40	84	5	010940900	8,081
9,25	40	84	5	010940925	9,182
9,5	40	84	5	010940950	9,182
9,75	40	84	5	010940975	10,366
10	43	89	5	010941000	10,366
10,25	43	89	5	010941025	14,814
10,5	43	89	5	010941050	14,814
10,75	47	95	5	010941075	15,802
11	47	95	5	010941100	15,802
11,25	47	95	5	010941125	16,667
11,5	47	95	5	010941150	16,667
11,75	47	95	5	010941175	17,161
12	51	102	5	010941200	17,161
12,25	51	102	5	010941225	18,888
12,5	51	102	5	010941250	18,888
12,75	51	102	5	010941275	19,383
13	51	102	5	010941300	19,383



**PUNTE ELICOIDALI CILINDRICHE SINISTRE,
INTERAMENTE RETTIFICATE, SERIE EXTRA CORTA**
Straight shank twist drills, left hand, stub serie

01067

HSS-G

DIN 1897 RETTIFICATA
Ground from the solid

Serie extracorta - Sinistra
Stub serie - Left hand



W 27°



Confezione
Packaging



$\angle < 3d$

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
1,5	9	32	10	010670150	43,404
2	12	38	10	010670200	21,276
2,2	13	40	10	010670220	33,834
2,5	14	43	10	010670250	32,475
2,7	16	46	10	010670270	37,291
2,8	16	46	10	010670280	43,712
3	16	46	10	010670300	26,364
3,1	18	49	10	010670310	30,537
3,2	18	49	10	010670320	31,611
3,5	20	52	10	010670350	29,018
3,7	20	52	10	010670370	33,759
3,75	20	52	10	010670375	34,574
3,8	22	55	10	010670380	34,574
4	22	55	10	010670400	31,402
4,2	22	55	10	010670420	34,327
4,5	24	58	10	010670450	32,969
4,8	26	62	10	010670480	37,044
5	26	62	10	010670500	32,969
5,1	26	62	10	010670510	37,390
5,2	26	62	10	010670520	39,514
5,5	28	66	10	010670550	33,710
5,7	28	66	10	010670570	42,230
5,8	28	66	10	010670580	42,230
6	28	66	10	010670600	33,710
6,5	31	70	10	010670650	35,686
7	34	74	10	010670700	37,167
7,5	34	74	5	010670750	40,193
8	37	79	5	010670800	40,378
8,5	37	79	5	010670850	40,378
9	40	84	5	010670900	42,329
9,5	40	84	5	010670950	42,329
10	43	89	5	010671000	43,218
10,2	43	89	5	010671020	45,194
10,5	43	89	5	010671050	49,787
11	47	95	5	010671100	61,740
11,5	47	95	5	010671150	67,667
12	51	102	5	010671200	70,878
12,5	51	102	5	010671250	76,187
13	51	102	5	010671300	80,015
14	54	107	3	010671400	93,104
15	56	111	3	010671500	113,108
16	58	115	3	010671600	128,172

PUNTE ELICOIDALI CILINDRICHE, SERIE ELICA CONTRAPPOSTA,
INTERAMENTE RETTIFICATE
Straight shank twist drills, double ended

01095

HSS-G

RETTIFICATA
Ground from the solid

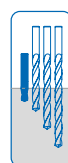
Elica contrapposta
Double ended



W 27°



HV 820
SPLIT POINT
DIN 1412C
($\varnothing \geq 3$)



<3 d

R ≤ 800 N/mm²



Confezione
Packaging



\varnothing h8	l	L	 pcs.	cod.	€ cad/each
2	10	38	10	010950200	1,711
2,5	10	43	10	010950250	1,711
3	11	46	10	010950300	1,969
3,2	11	49	10	010950320	1,969
3,25	11	49	10	010950325	1,969
3,3	11	49	10	010950330	1,969
3,4	14	52	10	010950340	1,969
3,5	14	52	10	010950350	1,969
3,75	14	55	10	010950375	2,212
4	14	55	10	010950400	2,212
4,1	14	55	10	010950410	2,632
4,2	17	58	10	010950420	2,632
4,25	17	58	10	010950425	2,632
4,5	17	58	10	010950450	2,900
4,75	17	62	10	010950475	3,207
4,9	17	62	10	010950490	3,207
5	17	62	10	010950500	3,207
5,1	17	62	10	010950510	4,281
5,5	17	66	10	010950550	4,281
6	17	66	10	010950600	4,702
6,5	17	66	10	010950650	5,309

Applicazioni
Applications



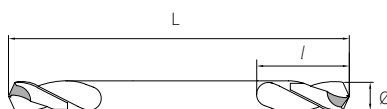
Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE SERIE LUNGA, INTERAMENTE RETTIFICATE

Long straight shank twist drills

01096

HSS-G

DIN 340 RETTIFICATA

Ground from the solid

Serie lunga

Long serie



W 27°



HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)



$\pm 8 d$



Confezione
Packaging



$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



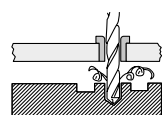
Acciaio
Steel




Metalli
Metals



Emulsione
Lubrificant



Ø h8	l	L	 pcs.	cod.	€ cad/each
1	33	56	10	010960100	2,139
1,5	45	70	10	010960150	2,139
1,75	53	80	10	010960175	2,365
2	56	85	10	010960200	2,247
2,25	59	90	10	010960225	2,484
2,5	62	95	10	010960250	2,365
2,75	66	100	10	010960275	2,737
3	66	100	10	010960300	2,737
3,25	69	106	10	010960325	2,976
3,5	73	112	10	010960350	2,911
3,75	73	112	10	010960375	3,096
4	78	119	10	010960400	2,950
4,25	78	119	10	010960425	3,748
4,5	82	126	10	010960450	3,800
4,75	82	126	10	010960475	3,880
5	87	132	10	010960500	3,694
5,25	87	132	10	010960525	5,116
5,5	91	139	10	010960550	5,116
5,75	91	139	10	010960575	5,594
6	91	139	10	010960600	5,594
6,25	97	148	5	010960625	6,326
6,5	97	148	5	010960650	6,021
6,75	97	148	5	010960675	7,375
7	102	156	5	010960700	6,765
7,25	102	156	5	010960725	8,319
7,5	102	156	5	010960750	7,921
7,75	109	165	5	010960775	9,462
8	109	165	5	010960800	9,010
8,25	109	165	5	010960825	12,452
8,5	109	165	5	010960850	12,452
8,75	115	175	5	010960875	13,036
9	115	175	5	010960900	13,036
9,25	115	175	5	010960925	14,670
9,5	115	175	5	010960950	13,966
9,75	121	184	5	010960975	16,065
10	121	184	5	010961000	15,308
10,25	121	184	5	010961025	18,459
10,5	121	184	5	010961050	18,459
10,75	121	184	5	010961075	18,763
11	128	195	5	010961100	18,763
11,25	128	195	5	010961125	20,717
11,5	128	195	5	010961150	20,717
11,75	128	195	5	010961175	22,562
11,8	128	195	5	010961180	22,562
12	134	205	5	010961200	22,562
12,25	134	205	5	010961225	23,308
12,5	134	205	5	010961250	23,308
12,75	134	205	5	010961275	27,308
13	134	205	5	010961300	27,308
13,5	140	214	3	010961350	37,659
14	140	214	3	010961400	37,659
14,5	144	220	3	010961450	53,301
15	144	220	3	010961500	50,762
15,5	149	227	3	010961550	61,873
16	149	227	3	010961600	58,934
16,5	154	235	1	010961650	61,087
17	154	235	1	010961700	62,814
17,5	158	241	1	010961750	69,711
18	158	241	1	010961800	70,855
18,5	162	247	1	010961850	80,489
19	162	247	1	010961900	82,070
19,5	166	254	1	010961950	86,959
20	166	254	1	010962000	87,957

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA,
INTERAMENTE RETTIFICATE
Extra long straight shank twist drills

01098

HSS-G

DIN 1869/1 RETTIFICATA
Ground from the solid

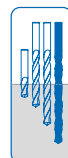
Serie extra lunga
Extra long serie



W 27°



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



<10 d

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



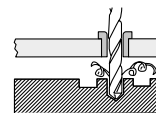
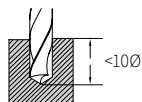
Emulsione
Lubrificant



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	85	125	1	010980200	10,853
2,5	95	140	1	010980250	11,398
3	100	150	1	010980300	12,620
3,5	115	165	1	010980350	13,391
4	120	175	1	010980400	13,391
4,5	125	185	1	010980450	14,562
5	135	195	1	010980500	14,562
5,25	135	195	1	010980525	17,689
5,5	140	205	1	010980550	17,689
5,75	140	205	1	010980575	17,689
6	140	205	1	010980600	17,689
6,5	150	215	1	010980650	21,093
6,8	155	225	1	010980680	24,350
7	155	225	1	010980700	24,350
7,5	155	225	1	010980750	27,542
7,75	165	240	1	010980775	30,135
8	165	240	1	010980800	30,135
8,5	165	240	1	010980850	31,639
9	175	250	1	010980900	40,003
9,5	175	250	1	010980950	43,529
10	185	265	1	010981000	43,529
10,2	185	265	1	010981020	43,529
10,5	185	265	1	010981050	43,529
11	195	280	1	010981100	43,529
11,5	195	280	1	010981150	54,844
11,75	205	295	1	010981175	54,844
12	205	295	1	010981200	54,844
12,5	205	295	1	010981250	57,439
13	205	295	1	010981300	57,439



PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE

Extra long straight shank twist drills

01099

HSS-G

DIN 1869/2 RETTIFICATA

Ground from the solid

Serie extra lunga

Extra long serie



W 27°



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



<10 d

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



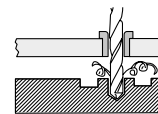
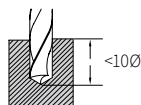
Emulsione
Lubrificant



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	130	190	1	010990300	15,520
3,5	145	210	1	010990350	16,118
4	150	220	1	010990400	16,666
4,5	160	235	1	010990450	19,257
5	170	245	1	010990500	19,789
5,5	180	260	1	010990550	25,853
5,75	180	260	1	010990575	25,853
6	180	260	1	010990600	25,853
6,5	190	275	1	010990650	27,542
7	200	290	1	010990700	31,958
7,5	200	290	1	010990750	36,732
8	210	305	1	010990800	37,411
8,5	210	305	1	010990850	48,966
9	220	320	1	010990900	58,262
9,5	220	320	1	010990950	58,980
10	235	340	1	010991000	58,980
10,5	235	340	1	010991050	61,201
11	250	365	1	010991100	61,201
11,5	250	365	1	010991150	64,276
12	260	375	1	010991200	77,122
12,5	260	375	1	010991250	80,964
13	260	375	1	010991300	80,964



01100

HSS-G

DIN 1869/3 RETTIFICATA

Ground from the solid

Serie extra lunga

Extra long serie



W 27°



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



<10 d

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



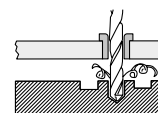
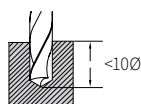
Emulsione
Lubrificant



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3,5	180	265	1	011000350	20,360
4	190	280	1	011000400	19,630
4,5	200	295	1	011000450	23,393
5	210	315	1	011000500	24,390
5,5	225	330	1	011000550	26,186
6	225	330	1	011000600	27,369
6,5	235	350	1	011000650	30,349
7	250	370	1	011000700	39,285
7,5	250	370	1	011000750	44,632
8	265	390	1	011000800	44,632
8,5	265	390	1	011000850	58,315
9	280	410	1	011000900	63,078
9,5	280	410	1	011000950	68,436
10	295	430	1	011001000	68,436
10,5	295	430	1	011001050	68,436
11	310	455	1	011001100	68,436
11,5	310	455	1	011001150	71,867
12	330	480	1	011001200	86,230
12,5	330	480	1	011001250	99,596
13	330	480	1	011001300	99,596



PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE

Extra long straight shank twist drills

01129

HSS-G

Speciale infissi
Special for casing



W 27°



HV 820
SPLIT POINT
DIN 1412C

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



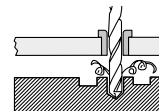
Metalli
Metals



Emulsione
Lubrificant



Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	100	10	011291000300	3,646
5	30	210	10	011292100500	7,282
5,3	30	210	10	011292100530	7,457
5,8	30	150	10	011291500580	5,645
5,8	30	210	10	011292100580	7,710



01370

HSS-G

DIN 1869/1 RETTIFICATA
Ground from the solid

Serie extra lunga
Extra long serie



W 35°



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



≥10 d

Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	85	125	1	013700200	17,569
2,5	95	140	1	013700250	17,488
3	100	150	1	013700300	19,489
3,5	115	165	1	013700350	20,121
4	120	175	1	013700400	22,384
4,5	125	185	1	013700450	22,754
5	135	195	1	013700500	23,281
5,25	135	195	1	013700525	26,547
5,5	140	205	1	013700550	26,547
5,75	140	205	1	013700575	26,547
6	140	205	1	013700600	26,547
6,5	150	215	1	013700650	33,184
7	155	225	1	013700700	37,925
7,5	155	225	1	013700750	44,773
8	165	240	1	013700800	48,565
8,5	165	240	1	013700850	62,575
9	175	250	1	013700900	66,368
9,5	175	250	1	013700950	75,850
10	185	265	1	013701000	70,161
10,5	185	265	1	013701050	84,170
11	195	280	1	013701100	94,389
11,5	195	280	1	013701150	103,133
12	205	295	1	013701200	124,731
12,5	205	295	1	013701250	130,839
13	205	295	1	013701300	125,572

R ≤ 800 N/mm²

Applicazioni
Applications



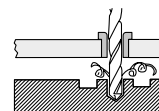
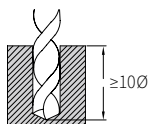
Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA,
INTERAMENTE RETTIFICATE
Extra long straight shank twist drills

01371

HSS-G

DIN 1869/2 RETTIFICATA
Ground from the solid

Serie extra lunga
Extra long serie



W 35°



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



≥10 d

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals




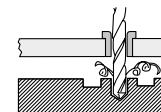
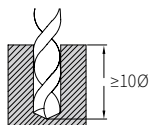
Emulsione
Lubrificant



Confezione
Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
3	130	190	1	013710300	23,667
3,5	145	210	1	013710350	23,983
4	150	220	1	013710400	24,182
4,5	160	235	1	013710450	29,356
5	170	245	1	013710500	28,257
5,5	180	260	1	013710550	37,610
6	180	260	1	013710600	36,719
6,5	190	275	1	013710650	41,191
7	200	290	1	013710700	46,563
7,5	200	290	1	013710750	55,518
8	210	305	1	013710800	55,518
8,5	210	305	1	013710850	75,217
9	220	320	1	013710900	77,009
9,5	220	320	1	013710950	91,334
10	235	340	1	013711000	87,753
10,5	235	340	1	013711050	114,616
11	250	365	1	013711100	131,437
11,5	250	365	1	013711150	146,453
12	260	375	1	013711200	147,555
12,5	260	375	1	013711250	156,205
13	260	375	1	013711300	154,014



01372

HSS-G

DIN 1869/3 RETTIFICATA
Ground from the solid

Serie extra lunga
Extra long serie



W 35°



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



≥10 d

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals




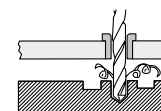
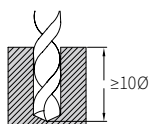
Emulsione
Lubrificant



Confezione
Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
3,5	180	265	1	013720350	36,028
4	190	280	1	013720400	36,028
4,5	200	295	1	013720450	45,510
5	210	315	1	013720500	45,510
5,5	225	330	1	013720550	48,565
6	225	330	1	013720600	49,301
6,5	235	350	1	013720650	54,990
7	250	370	1	013720700	72,058
7,5	250	370	1	013720750	81,538
8	265	390	1	013720800	83,434
8,5	265	390	1	013720850	106,189
9	280	410	1	013720900	117,564
9,5	280	410	1	013720950	130,839
10	295	430	1	013721000	130,839
10,5	295	430	1	013721050	137,264
11	310	455	1	013721100	156,649
11,5	310	455	1	013721150	168,343
12	330	480	1	013721200	175,611
12,5	330	480	1	013721250	180,561
13	330	480	1	013721300	180,561



PUNTE ELICOIDALI CILINDRICHE HSS RETTIFICATE,
SERIE SPECIALI SUPER LUNGHE
Long straight shank twist drills

01105

HSS-G

NORMA KRINO
Ground from the solid

L=305 mm



W 27°



HV 820
SPLIT POINT
DIN 1412C



<10 d

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



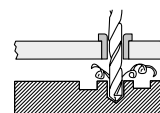
Emulsione
Lubrificant



Confezione
Packaging



Ø	l	L	d	pcs.	cod.	€ cad/each
6	228	305	6	1	011050600	27,329
6,5	228	305	6,5	1	011050650	30,212
7	228	305	7	1	011050700	38,834
7,5	228	305	7,5	1	011050750	44,595
8	228	305	8	1	011050800	48,907
8,5	228	305	8,5	1	011050850	58,260
9	228	305	9	1	011050900	58,260
9,5	228	305	9,5	1	011050950	60,412
10	228	305	10	1	011051000	60,412
10,5	228	305	10,5	1	011051050	61,852
11	228	305	11	1	011051100	61,852
11,5	228	305	11,5	1	011051150	64,012
12	228	305	12	1	011051200	64,012
12,5	228	305	12,5	1	011051250	67,127
13	228	305	13	1	011051300	67,127
14	228	305	13	1	011051400	83,430
15	228	305	13	1	011051500	95,941
16	228	305	13	1	011051600	107,046



01114

HSS-G

NORMA KRINO
Ground from the solid

L=460 mm



W 27°



HV 820
SPLIT POINT
DIN 1412C



<10 d

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



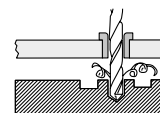
Emulsione
Lubrificant



Confezione
Packaging



Ø	l	L	d	pcs.	cod.	€ cad/each
6	330	460	6	1	011140600	43,403
8	330	460	8	1	011140800	69,403
10	330	460	10	1	011141000	100,460
12	330	460	12	1	011141200	137,162
14	330	460	14	1	011141400	191,792
16	330	460	16	1	011141600	239,734



PUNTE ELICOIDALI CILINDRICHE, INTERAMENTE RETTIFICATE, SERIE CORTA, FINITURA BRILLANTE

Fully ground straight shank twist drills

01070

HSS-G

DIN 338 RETTIFICATA

Ground from the solid

Serie corta

Short serie



W 27°



HV = 820
AISI M2
SPLIT POINT
DIN 1412C
($\varnothing \geq 2,5$)



<5d



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel




Emulsione
Lubrificant



Art. 01071 Self
Disponibile su richiesta
On demand


Taglio dei materiali con $R \leq 800$ N/mm²
quali acciai legati, ghise, tutti i metalli
in genere, la grafite. Precisione di
foratura e costanza di
rendimenti elevati.

*High precision and high performances
in cutting alloy steel up to
 $R \leq 800$ N/mm².*

\varnothing h8	l	L	 pcs.	cod.	€ cad/each
0,3	3	19	10	010700030	2,784
0,35	4	19	10	010700035	2,526
0,4	5	20	10	010700040	2,398
0,45	5	20	10	010700045	2,398
0,5	6	22	10	010700050	2,063
0,55	7	24	10	010700055	2,398
0,6	7	24	10	010700060	1,895
0,65	8	26	10	010700065	2,063
0,7	9	28	10	010700070	1,766
0,75	9	28	10	010700075	1,766
0,8	10	30	10	010700080	1,766
0,85	10	30	10	010700085	1,766
0,9	11	32	10	010700090	1,651
0,95	11	32	10	010700095	1,766
1	12	34	10	010700100	1,341
1,1	14	36	10	010700110	1,404
1,2	16	38	10	010700120	1,404
1,25	16	38	10	010700125	1,404
1,3	16	38	10	010700130	1,404
1,4	18	40	10	010700140	1,404
1,5	18	40	10	010700150	1,212
1,6	20	43	10	010700160	1,148
1,7	20	43	10	010700170	1,148
1,75	22	46	10	010700175	1,148
1,8	22	46	10	010700180	1,148
1,9	22	46	10	010700190	1,148
2	24	49	10	010700200	1,005
2,1	24	49	10	010700210	1,212
2,2	27	53	10	010700220	1,212
2,25	27	53	10	010700225	1,212
2,3	27	53	10	010700230	1,212
2,4	30	57	10	010700240	1,212
2,5	30	57	10	010700250	1,110
2,6	30	57	10	010700260	1,393
2,7	33	61	10	010700270	1,393
2,75	33	61	10	010700275	1,393
2,8	33	61	10	010700280	1,393
2,9	33	61	10	010700290	1,393
3	33	61	10	010700300	1,264
3,1	36	65	10	010700310	1,496
3,2	36	65	10	010700320	1,496
3,25	36	65	10	010700325	1,496
3,3	36	65	10	010700330	1,496
3,4	39	70	10	010700340	1,496
3,5	39	70	10	010700350	1,404
3,6	39	70	10	010700360	1,637
3,7	39	70	10	010700370	1,637
3,75	39	70	10	010700375	1,637
3,8	43	75	10	010700380	1,637
3,9	43	75	10	010700390	1,637
4	43	75	10	010700400	1,534
4,1	43	75	10	010700410	2,024
4,2	43	75	10	010700420	2,024
4,25	43	75	10	010700425	2,024
4,3	47	80	10	010700430	2,024
4,4	47	80	10	010700440	2,024
4,5	47	80	10	010700450	1,844
4,6	47	80	10	010700460	2,075
4,7	47	80	10	010700470	2,075
4,75	47	80	10	010700475	2,075
4,8	52	86	10	010700480	2,075
4,9	52	86	10	010700490	2,075
5	52	86	10	010700500	1,907

Serie corta
Short serie

∅ h8	l	L	 pcs.	cod.	€ cad/each
5,1	52	86	10	010700510	2,657
5,2	52	86	10	010700520	2,657
5,25	52	86	10	010700525	2,657
5,3	52	86	10	010700530	2,657
5,4	57	93	10	010700540	2,657
5,5	57	93	10	010700550	2,554
5,6	57	93	10	010700560	2,952
5,7	57	93	10	010700570	2,952
5,75	57	93	10	010700575	2,952
5,8	57	93	10	010700580	2,952
5,9	57	93	10	010700590	2,952
6	57	93	10	010700600	2,657
6,1	63	101	10	010700610	3,686
6,2	63	101	10	010700620	3,686
6,25	63	101	10	010700625	3,686
6,3	63	101	10	010700630	3,686
6,4	63	101	10	010700640	3,686
6,5	63	101	10	010700650	3,403
6,6	63	101	10	010700660	4,295
6,7	63	101	10	010700670	4,295
6,75	69	109	10	010700675	4,295
6,8	69	109	10	010700680	4,295
6,9	69	109	10	010700690	4,295
7	69	109	10	010700700	3,970
7,1	69	109	5	010700710	4,720
7,2	69	109	5	010700720	4,720
7,25	69	109	5	010700725	4,720
7,3	69	109	5	010700730	4,720
7,4	69	109	5	010700740	4,720
7,5	69	109	5	010700750	4,202
7,6	75	117	5	010700760	5,299
7,7	75	117	5	010700770	5,299
7,75	75	117	5	010700775	5,299
7,8	75	117	5	010700780	5,299
7,9	75	117	5	010700790	5,299
8	75	117	5	010700800	5,003
8,1	75	117	5	010700810	6,511
8,2	75	117	5	010700820	6,511
8,25	75	117	5	010700825	6,511
8,3	75	117	5	010700830	6,511
8,4	75	117	5	010700840	6,511
8,5	75	117	5	010700850	6,176
8,6	81	125	5	010700860	6,755
8,7	81	125	5	010700870	6,755
8,75	81	125	5	010700875	6,755
8,8	81	125	5	010700880	6,755
8,9	81	125	5	010700890	6,755
9	81	125	5	010700900	6,472
9,1	81	125	5	010700910	7,646
9,2	81	125	5	010700920	7,646
9,25	81	125	5	010700925	7,646
9,3	81	125	5	010700930	7,646
9,4	81	125	5	010700940	7,646
9,5	81	125	5	010700950	6,962
9,6	87	133	5	010700960	8,096
9,7	87	133	5	010700970	8,096
9,75	87	133	5	010700975	8,096
9,8	87	133	5	010700980	8,096
9,9	87	133	5	010700990	8,096
10	87	133	5	010701000	7,284
10,2	87	133	5	010701020	10,351
10,25	87	133	5	010701025	10,351
10,4	87	133	5	010701040	10,351

∅ h8	l	L	 pcs.	cod.	€ cad/each
10,5	87	133	5	010701050	9,036
10,75	94	142	5	010701075	12,403
11	94	142	5	010701100	10,817
11,25	94	142	5	010701125	13,176
11,5	94	142	5	010701150	11,539
11,75	94	142	5	010701175	14,375
12	101	151	5	010701200	12,454
12,25	101	151	5	010701225	15,663
12,4	101	151	5	010701240	15,663
12,5	101	151	5	010701250	13,589
12,75	101	151	5	010701275	17,714
13	101	151	5	010701300	14,659
13,25	108	160	3	010701325	20,769
13,5	108	160	3	010701350	18,654
13,75	108	160	3	010701375	20,769
14	108	160	3	010701400	19,171
14,25	114	169	3	010701425	24,935
14,5	114	169	3	010701450	21,260
14,75	114	169	3	010701475	24,935
15	114	169	3	010701500	22,716
15,25	120	178	3	010701525	31,071
15,5	120	178	3	010701550	26,662
15,75	120	178	3	010701575	31,071
16	120	178	3	010701600	28,171
16,5	125	184	1	010701650	28,389
17	125	184	1	010701700	30,168
17,5	130	191	1	010701750	31,819
18	130	191	1	010701800	34,281
18,5	135	198	1	010701850	37,787
19	135	198	1	010701900	39,165
20	140	205	1	010702000	44,221

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO INTERAMENTE RETTIFICATE, FINITURA BRILLANTE

Reduced shank twist drills

01072

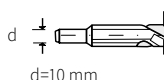
HSS-G

DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 10mm
Reduced shank - 10mm



<5 d



d=10 mm



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	010721025	13,280
10,5	87	133	10	5	010721050	11,965
10,75	94	142	10	5	010721075	15,328
11	94	142	10	5	010721100	13,742
11,25	94	142	10	5	010721125	16,102
11,5	94	142	10	5	010721150	14,465
11,75	94	142	10	5	010721175	17,302
12	101	151	10	5	010721200	15,381
12,25	101	151	10	5	010721225	18,591
12,5	101	151	10	5	010721250	16,514
12,75	101	151	10	5	010721275	20,642
13	101	151	10	5	010721300	17,585
13,25	108	160	10	3	010721325	24,109
13,5	108	160	10	3	010721350	22,007
13,75	108	160	10	3	010721375	24,109
14	108	160	10	3	010721400	22,522
14,25	114	169	10	3	010721425	28,286
14,5	114	169	10	3	010721450	24,610
14,75	114	169	10	3	010721475	28,286
15	114	169	10	3	010721500	26,068
15,25	120	178	10	3	010721525	34,410
15,5	120	178	10	3	010721550	30,014
15,75	120	178	10	3	010721575	34,410
16	120	178	10	3	010721600	31,509
16,5	125	184	10	1	010721650	31,741
17	125	184	10	1	010721700	33,507
17,5	130	191	10	1	010721750	35,169
18	130	191	10	1	010721800	37,619
18,5	135	198	10	1	010721850	41,138
19	135	198	10	1	010721900	42,519
19,5	140	205	10	1	010721950	47,559
20	140	205	10	1	010722000	47,559

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Art. 01073 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO INTERAMENTE RETTIFICATE, FINITURA BRILLANTE

Reduced shank twist drills

01074

HSS-G

DIN 338 RETTIFICATA

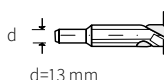
Ground from the solid

Codolo ridotto - 13mm

Reduced shank - 13mm



$< 5d$




$d=13\text{ mm}$



Confezione
Packaging



\emptyset h8	l	L	d	 pcs.	cod.	€ cad/each
13,25	108	160	13	3	010741325	24,109
13,5	108	160	13	3	010741350	22,007
13,75	108	160	13	3	010741375	24,109
14	108	160	13	3	010741400	22,522
14,25	114	169	13	3	010741425	28,286
14,5	114	169	13	3	010741450	24,610
14,75	114	169	13	3	010741475	28,286
15	114	169	13	3	010741500	26,068
15,25	120	178	13	3	010741525	34,410
15,5	120	178	13	3	010741550	30,014
15,75	120	178	13	3	010741575	34,410
16	120	178	13	3	010741600	31,509
16,5	125	184	13	1	010741650	31,741
17	125	184	13	1	010741700	33,507
17,5	130	191	13	1	010741750	35,169
18	130	191	13	1	010741800	37,619
18,5	135	198	13	1	010741850	41,138
19	135	198	13	1	010741900	42,519
19,5	140	205	13	1	010741950	47,559
20	140	205	13	1	010742000	47,559

R \leq 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Art. 01073 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI CILINDRICHE INTERAMENTE RETTIFICATE,
SERIE EXTRA CORTA, FINITURA BRILLANTE
Straight shank twist drills, stub serie

01076

HSS-G

DIN 1897 RETTIFICATA

Ground from the solid

Serie extra corta

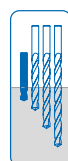
Extra short serie



W 27°



HV = 820
SPLIT POINT
DIN 1412C
($\varnothing \geq 3$)



< 3 d



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications




Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	l	L	 pcs.	cod.	€ cad/each
1,5	9	32	10	010760150	0,939
2	12	38	10	010760200	0,939
2,2	13	40	10	010760220	1,139
2,25	13	40	10	010760225	1,139
2,5	14	43	10	010760250	1,038
2,75	16	46	10	010760275	1,289
2,8	16	46	10	010760280	1,289
3	16	46	10	010760300	1,289
3,1	18	49	10	010760310	1,416
3,2	18	49	10	010760320	1,416
3,25	18	49	10	010760325	1,416
3,3	18	49	10	010760330	1,416
3,5	20	52	10	010760350	1,416
3,7	20	52	10	010760370	1,566
3,75	20	52	10	010760375	1,566
3,8	22	55	10	010760380	1,566
4	22	55	10	010760400	1,566
4,1	22	55	10	010760410	1,953
4,2	22	55	10	010760420	1,953
4,25	22	55	10	010760425	1,953
4,5	24	58	10	010760450	1,779
4,75	24	58	10	010760475	1,990
4,8	26	62	10	010760480	1,990
5	26	62	10	010760500	1,852
5,1	26	62	10	010760510	2,604
5,2	26	62	10	010760520	2,604
5,25	26	62	10	010760525	2,604
5,5	28	66	10	010760550	2,453
5,75	28	66	10	010760575	2,930
5,8	28	66	10	010760580	2,930
6	28	66	10	010760600	2,743
6,25	31	70	10	010760625	2,972
6,5	31	70	10	010760650	3,292
6,75	34	74	10	010760675	3,662
7	34	74	10	010760700	3,842
7,5	34	74	5	010760750	4,079
8	37	79	5	010760800	4,957
8,5	37	79	5	010760850	6,634
9	40	84	5	010760900	7,610
9,5	40	84	5	010760950	8,650
10	43	89	5	010761000	9,763
10,5	43	89	5	010761050	10,232
11	47	95	5	010761100	11,484
11,5	47	95	5	010761150	12,516
12	51	102	5	010761200	14,426
12,5	51	102	5	010761250	15,779
13	51	102	5	010761300	16,911



**PUNTE ELICOIDALI SUPERCORTE
PER LATTONIERI, FINITURA BRILLANTE**
Extra short twist drills for portable applications

01050

HSS-G

NORMA KRINO RETTIFICATA

Ground from the solid

Serie Supercorta

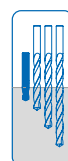
Supershort serie



W 27°



HV = 750÷820
SPLIT POINT
DIN 1412C



<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.90°	€ cad/each
3	16	35	10	010500300	1,029
3,2	19	40	10	010500320	1,079
3,25	19	40	10	010500325	1,079
3,3	19	40	10	010500330	1,079
3,5	19	40	10	010500350	1,079
3,6	19	40	10	010500360	1,189
3,75	19	40	10	010500375	1,189
4	20	40	10	010500400	1,189
4,1	20	40	10	010500410	1,458
4,2	20	40	10	010500420	1,458
4,25	20	40	10	010500425	1,458
4,5	23	42	10	010500450	1,458
5	23	45	10	010500500	1,594

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Punte speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori. Foratura dolce e precisa, grazie all'affilatura split point autocentrante, su lamiere e tubi in acciaio, rame e plastica.

Super short twist drills for cutting metal sheets, special for journeymen's, carpenters, locksmith's, tinsmith's.



PUNTE ELICOIDALI ELICA CONTRAPPOSTA, INTERAMENTE RETTIFICATE,
 FINITURA BRILLANTE
Fully ground twist drills

01077

HSS-G

RETTIFICATA
 Ground from the solid

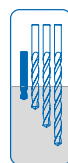
Elica contrapposta
 Double ended



W 27°



HV 820
 SPLIT POINT
 DIN 1412C
 (Ø≥3)




<3 d



Confezione
 Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
2	10	38	10	010770200	0,871
2,5	10	43	10	010770250	1,044
3	11	46	10	010770300	1,280
3,2	11	49	10	010770320	1,345
3,25	11	49	10	010770325	1,345
3,3	11	49	10	010770330	1,529
3,4	14	52	10	010770340	1,690
3,5	14	52	10	010770350	1,690
3,75	14	55	10	010770375	1,830
4	14	55	10	010770400	1,959
4,1	14	55	10	010770410	1,959
4,2	17	58	10	010770420	2,390
4,25	17	58	10	010770425	2,390
4,5	17	58	10	010770450	2,390
4,75	17	62	10	010770475	2,809
4,9	17	62	10	010770490	3,154
5	17	62	10	010770500	3,154
5,1	17	62	10	010770510	3,175
5,5	17	66	10	010770550	3,509
6	17	66	10	010770600	3,768

R ≤ 800 N/mm²

Applicazioni
 Applications



Metalli
 Metals



Acciaio
 Steel



Emulsione
 Lubrificant

PUNTE ELICOIDALI CILINDRICHE SERIE LUNGA, INTERAMENTE RETTIFICATE,
FINITURA BRILLANTE
Long straight shank twist drills

01078

HSS-G

DIN 340 RETTIFICATA

Ground from the solid

Serie lunga

Long serie



W 27°



HV = 820
SPLIT POINT
DIN 1412C
(Ø ≥ 3)



<8 d



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals




Acciaio
Steel

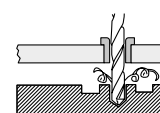


Emulsione
Lubrificant

Taglio dei materiali con
R ≤ 800 N/mm² quali acciai legati,
ghise tutti i metalli in genere, la
grafite. Precisione di foratura e
costanza di rendimenti elevati.

High precision and high
performances in cutting alloy steel
up to R ≤ 800 N/mm².

Ø h8	l	L	 pcs.	cod.	€ cad/each
1,5	45	70	10	010780150	2,056
1,75	53	80	10	010780175	2,275
2	56	85	10	010780200	2,160
2,25	59	90	10	010780225	2,389
2,5	62	95	10	010780250	2,275
2,75	66	100	10	010780275	2,632
3	66	100	10	010780300	2,632
3,25	69	106	10	010780325	2,862
3,5	73	112	10	010780350	2,799
3,75	73	112	10	010780375	2,977
4	78	119	10	010780400	2,838
4,25	78	119	10	010780425	3,603
4,5	82	126	10	010780450	3,653
4,75	82	126	10	010780475	3,731
5	87	132	10	010780500	3,552
5,25	87	132	10	010780525	4,919
5,5	91	139	10	010780550	4,919
5,75	91	139	10	010780575	5,379
6	91	139	10	010780600	5,379
6,25	97	148	5	010780625	6,083
6,5	97	148	5	010780650	5,789
6,75	97	148	5	010780675	7,092
7	102	156	5	010780700	6,504
7,25	102	156	5	010780725	7,998
7,5	102	156	5	010780750	7,616
7,75	109	165	5	010780775	9,098
8	109	165	5	010780800	8,663
8,25	109	165	5	010780825	11,973
8,5	109	165	5	010780850	11,973
8,75	115	175	5	010780875	12,534
9	115	175	5	010780900	12,534
9,25	115	175	5	010780925	14,105
9,5	115	175	5	010780950	13,429
9,75	121	184	5	010780975	15,448
10	121	184	5	010781000	14,720
10,5	121	184	5	010781050	17,749
11	128	195	5	010781100	18,042
11,5	128	195	5	010781150	19,919
12	134	205	5	010781200	21,696
12,5	134	205	5	010781250	22,411
13	134	205	5	010781300	26,257
13,5	140	214	3	010781350	36,212
14	140	214	3	010781400	36,212
14,5	144	220	3	010781450	51,251
15	144	220	3	010781500	48,810
15,5	149	227	3	010781550	59,494
16	149	227	3	010781600	56,668
16,5	154	235	1	010781650	58,737
17	154	235	1	010781700	60,398
17,5	158	241	1	010781750	67,031
18	158	241	1	010781800	68,130
18,5	162	247	1	010781850	77,394
19	162	247	1	010781900	78,914
19,5	166	254	1	010781950	83,615
20	166	254	1	010782000	84,573



**PUNTE ELICOIDALI INTERAMENTE RETTIFICATE,
ATTACCO 1/4" HEX FORM E, FINITURA BRILLANTE**
Fully ground twist drills whit 1/4" quich change shank

01079

HSS-G

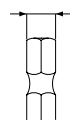
~DIN 338
Ground from the solid

1/4" HEX FORM E



<5 d

1/4" HEX FORM E



Confezione
Packaging



Ø h8	l	L	Hex d	Box pcs.	cod.	€ cad/each
1,5	18	60	1/4	10	010790150	1,524
2	24	69	1/4	10	010790200	1,524
2,5	30	77	1/4	10	010790250	1,585
3	33	81	1/4	10	010790300	1,981
3,25	36	85	1/4	10	010790325	2,107
3,5	39	90	1/4	10	010790350	2,107
4	43	95	1/4	10	010790400	2,304
4,25	43	95	1/4	10	010790425	2,699
4,5	47	100	1/4	10	010790450	2,699
5	52	106	1/4	10	010790500	2,899
5,5	57	113	1/4	10	010790550	3,494
6	57	113	1/4	10	010790600	3,877
6,5	63	121	1/4	10	010790650	5,190
7	69	109	1/4	10	010790700	6,008
7,5	69	109	1/4	5	010790750	7,743
8	75	117	1/4	5	010790800	7,743
8,5	75	117	1/4	5	010790850	9,636
9	81	125	1/4	5	010790900	11,197
9,5	81	125	1/4	5	010790950	12,338
10	87	133	1/4	5	010791000	12,781

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubricant



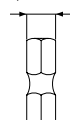
PUNTA CON ATTACCO ESAGONALE 1/4"
PER AVVITATORI E TRAPANI REVERSIBILI
Drill bits with 1/4 hexagon drive for power screwdrivers and cordless drills

10211

HSS-G

1/4" HEX

1/4" HEX



Ø h8	l	L	Hex d	Box pcs.	cod.	€ cad/each
1	7	32	1/4	1	102110100	7,194
1,5	10	32	1/4	1	102110150	7,194
2	12	34	1/4	1	102110200	7,194
2,5 (M3)	14	36	1/4	1	102110250	7,194
3	16	38	1/4	1	102110300	7,194
3,3 (M4)	18	40	1/4	1	102110330	7,194
3,5	18	40	1/4	1	102110350	7,194
4	20	44	1/4	1	102110400	7,194
4,2 (M5)	20	45	1/4	1	102110420	7,194
4,5	24	46	1/4	1	102110450	7,194
5 (M6)	26	50	1/4	1	102110500	7,194
5,5	26	50	1/4	1	102110550	7,476
6	26	50	1/4	1	102110600	7,476
6,5	30	50	1/4	1	102110650	7,476
6,8 (M8)	30	50	1/4	1	102110680	7,476
7	30	50	1/4	1	102110700	7,476
7,5	32	51	1/4	1	102110750	8,801
8	32	51	1/4	1	102110800	8,801
8,5 (M10)	33	53	1/4	1	102110850	10,058
9	33	53	1/4	1	102110900	10,058
9,5	38	54	1/4	1	102110950	11,311
10	38	54	1/4	1	102111000	11,311
10,2 (M12)	38	54	1/4	1	102111020	11,311

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubricant



PUNTE ELICOIDALI CILINDRICHE IN POLLICI, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA, FINITURA BRILLANTE

Fully ground straight shank twist drills in inches

01115

HSS-G

ANSI B94 RETTIFICATA
Ground from the solid

Serie corta - Pollici
Short serie - Inches



W 27°



HV = 820
SPLIT POINT
DIN 1412 C



<5 d



Confezione
Packaging



Ø inch	Ø mm	l inch	L inch	pcs.	cod.	€ cad/each
1/16	1,59	7/8	1-7/8	10	0111514	0,899
5/64	1,98	1"	2"	10	0111515	0,954
3/32	2,38	1-1/4	2-1/4	10	0111516	1,101
7/64	2,78	1-1/2	2-5/8	10	0111517	1,276
1/8	3,17	1-5/8	2-3/4	10	0111518	1,342
9/64	3,57	1-3/4	2-7/8	10	0111519	1,491
5/32	3,97	2"	3-1/8	10	0111520	1,584
11/64	4,37	2-1/8	3-1/4	10	0111521	1,719
3/16	4,76	2-5/16	3-1/2	10	0111522	1,948
13/64	5,16	2-7/16	3-5/8	10	0111523	2,270
7/32	5,56	2-1/2	3-3/4	10	0111524	2,498
15/64	5,95	2-5/8	3-7/8	10	0111525	2,632
1/4	6,35	2-3/4	4"	10	0111526	2,832
17/64	6,75	2-7/8	4-1/8	10	0111527	3,183
9/32	7,14	2-15/16	4-1/4	5	0111528	3,707
19/64	7,54	3-1/16	4-3/8	5	0111529	3,949
5/16	7,94	3-3/16	4-1/2	5	0111530	4,324
21/64	8,33	3-5/16	4-5/8	5	0111531	5,976
11/32	8,73	3-7/16	4-3/4	5	0111532	6,246
23/64	9,13	3-1/2	4-7/8	5	0111533	6,675
3/8	9,52	3-5/8	5"	5	0111534	6,810
25/64	9,92	3-3/4	5-1/8	5	0111535	7,036
13/32	10,32	3-7/8	5-1/4	5	0111536	7,600
27/64	10,72	3-15/16	5-3/8	5	0111537	8,501
7/16	11,11	4-1/16	5-1/2	5	0111538	9,869
29/64	11,51	4-3/16	5-5/8	5	0111539	10,192
15/32	11,91	4-5/16	5-3/4	5	0111540	10,676
31/64	12,30	4-7/16	5-7/8	5	0111541	11,521
1/2	12,70	4-1/2	6"	5	0111542	12,812

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Taglio dei materiali con
R ≤ 800 N/mm² quali acciai legati,
ghise, tutti i metalli in genere, la
grafite. Precisione di foratura e
costanza di rendimenti elevati.

*High precision and high performances
in cutting alloy steel up to
R ≤ 800 N/mm².*

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA,
SERIE CORTA CON ANGOLO AL VERTICE DI 118°
Fully ground straight shank twist drills

01066

HSS-G

DIN 338 - 118° RETTIFICATA
Ground from the solid

Serie corta - 118°
Short serie - 118°



W 27°



AISI M2
HV = 820



$\leq 5 d$



Confezione
Packaging



$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals




Acciaio
Steel





Emulsione
Lubrificant

Taglio dei materiali con
 $R \leq 800 \text{ N/mm}^2$ quali acciai legati,
ghise, tutti i metalli in genere, la
grafite. Precisione di foratura e
costanza di rendimenti elevati.

High precision and high performances
in cutting alloy steel up to
 $R \leq 800 \text{ N/mm}^2$.

\emptyset h8	l	L	 pcs.	cod.	€ cad/each
1	12	34	10	010660100	0,780
1,1	14	36	10	010660110	0,780
1,2	16	38	10	010660120	0,780
1,25	16	38	10	010660125	0,780
1,3	16	38	10	010660130	0,780
1,4	18	40	10	010660140	0,780
1,5	18	40	10	010660150	0,780
1,6	20	43	10	010660160	0,780
1,7	20	43	10	010660170	0,780
1,75	22	46	10	010660175	0,780
1,8	22	46	10	010660180	0,780
1,9	22	46	10	010660190	0,780
2	24	49	10	010660200	0,780
2,1	24	49	10	010660210	0,780
2,2	27	53	10	010660220	0,780
2,25	27	53	10	010660225	0,780
2,3	27	53	10	010660230	0,780
2,4	30	57	10	010660240	0,780
2,5	30	57	10	010660250	0,780
2,6	30	57	10	010660260	0,780
2,7	33	61	10	010660270	0,780
2,75	33	61	10	010660275	0,780
2,8	33	61	10	010660280	0,780
2,9	33	61	10	010660290	0,780
3	36	61	10	010660300	0,780
3,1	36	65	10	010660310	0,917
3,2	36	65	10	010660320	0,917
3,25	36	65	10	010660325	0,917
3,3	36	65	10	010660330	0,917
3,4	39	70	10	010660340	0,917
3,5	39	70	10	010660350	0,917
3,6	39	70	10	010660360	0,991
3,7	39	70	10	010660370	0,991
3,75	39	70	10	010660375	0,991
3,8	43	75	10	010660380	0,991
3,9	43	75	10	010660390	0,991
4	43	75	10	010660400	0,991
4,1	43	75	10	010660410	1,263
4,2	43	75	10	010660420	1,263
4,25	43	75	10	010660425	1,263
4,3	47	80	10	010660430	1,263
4,4	47	80	10	010660440	1,263
4,5	47	80	10	010660450	1,263
4,6	47	80	10	010660460	1,585
4,7	47	80	10	010660470	1,585
4,75	47	80	10	010660475	1,585
4,8	52	86	10	010660480	1,585
4,9	52	86	10	010660490	1,585
5	52	86	10	010660500	1,585
5,1	52	86	10	010660510	2,093
5,2	52	86	10	010660520	2,093
5,25	52	86	10	010660525	2,093
5,3	52	86	10	010660530	2,093
5,4	57	93	10	010660540	2,093
5,5	57	93	10	010660550	2,093
5,6	57	93	10	010660560	2,416
5,7	57	93	10	010660570	2,416
5,75	57	93	10	010660575	2,416
5,8	57	93	10	010660580	2,416
5,9	57	93	10	010660590	2,416
6	57	93	10	010660600	2,416
6,1	63	101	10	010660610	2,613
6,2	63	101	10	010660620	2,613

Serie corta - 118°
Short serie - 118°

Ø h8	l	L	 pcs.	cod.	€ cad/each	Ø h8	l	L	 pcs.	cod.	€ cad/each
6,25	63	101	10	010660625	2,613	11,5	94	142	5	010661150	10,339
6,3	63	101	10	010660630	2,613	11,6	94	142	5	010661160	11,927
6,4	63	101	10	010660640	2,613	11,7	94	142	5	010661170	11,927
6,5	63	101	10	010660650	2,613	11,75	94	142	5	010661175	11,927
6,6	63	101	10	010660660	3,158	11,8	94	142	5	010661180	11,927
6,7	63	101	10	010660670	3,158	11,9	101	151	5	010661190	11,927
6,75	69	109	10	010660675	3,158	12	101	151	5	010661200	11,927
6,8	69	109	10	010660680	3,158	12,1	101	151	5	010661210	13,044
6,9	69	109	10	010660690	3,158	12,2	101	151	5	010661220	13,044
7	69	109	10	010660700	3,158	12,25	101	151	5	010661225	13,044
7,1	69	109	5	010660710	3,705	12,3	101	151	5	010661230	13,044
7,2	69	109	5	010660720	3,705	12,4	101	151	5	010661240	13,044
7,25	69	109	5	010660725	3,705	12,5	101	151	5	010661250	13,044
7,3	69	109	5	010660730	3,705	12,6	101	151	5	010661260	14,136
7,4	69	109	5	010660740	3,705	12,7	101	151	5	010661270	14,136
7,5	69	109	5	010660750	3,705	12,75	101	151	5	010661275	14,136
7,6	75	117	5	010660760	4,670	12,8	101	151	5	010661280	14,136
7,7	75	117	5	010660770	4,670	12,9	101	151	5	010661290	14,136
7,75	75	117	5	010660775	4,670	13	101	151	5	010661300	14,136
7,8	75	117	5	010660780	4,670						
7,9	75	117	5	010660790	4,670						
8	75	117	5	010660800	4,670						
8,1	75	117	5	010660810	5,065						
8,2	75	117	5	010660820	5,065						
8,25	75	117	5	010660825	5,065						
8,3	75	117	5	010660830	5,065						
8,4	75	117	5	010660840	5,065						
8,5	75	117	5	010660850	5,065						
8,6	81	125	5	010660860	5,897						
8,7	81	125	5	010660870	5,897						
8,75	81	125	5	010660875	5,897						
8,8	81	125	5	010660880	5,897						
8,9	81	125	5	010660890	5,897						
9	81	125	5	010660900	5,897						
9,1	81	125	5	010660910	6,415						
9,2	81	125	5	010660920	6,415						
9,25	81	125	5	010660925	6,415						
9,3	81	125	5	010660930	6,415						
9,4	81	125	5	010660940	6,415						
9,5	81	125	5	010660950	6,415						
9,6	87	133	5	010660960	7,582						
9,7	87	133	5	010660970	7,582						
9,75	87	133	5	010660975	7,582						
9,8	87	133	5	010660980	7,582						
9,9	87	133	5	010660990	7,582						
10	87	133	5	010661000	7,582						
10,1	87	133	5	010661010	8,454						
10,2	87	133	5	010661020	8,454						
10,25	87	133	5	010661025	8,454						
10,3	87	133	5	010661030	8,454						
10,4	87	133	5	010661040	8,454						
10,5	87	133	5	010661050	8,454						
10,6	87	133	5	010661060	9,494						
10,7	94	142	5	010661070	9,494						
10,75	94	142	5	010661075	9,494						
10,8	94	142	5	010661080	9,494						
10,9	94	142	5	010661090	9,494						
11	94	142	5	010661100	9,494						
11,1	94	142	5	010661110	10,339						
11,2	94	142	5	010661120	10,339						
11,25	94	142	5	010661125	10,339						
11,3	94	142	5	010661130	10,339						
11,4	94	142	5	010661140	10,339						

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA,
SERIE EXTRA CORTA CON ANGOLO AL VERTICE DI 118°
Fully ground straight shank twist drills, stub serie

01022

HSS-G

DIN 1897 - 118° RETTIFICATA
Ground from the solid

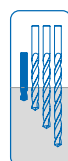
Serie extra corta - 118°
Stub serie - 118°



W 27°



AISI M2
HV = 820




$\lt; 3d$



Confezione
Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
2,5	14	43	10	010220250	1,028
3	16	46	10	010220300	1,276
3,2	18	49	10	010220320	1,401
3,25	18	49	10	010220325	1,401
3,5	20	52	10	010220350	1,401
3,7	20	52	10	010220370	1,549
3,75	20	52	10	010220375	1,549
4	22	55	10	010220400	1,549
4,2	22	55	10	010220420	1,933
4,25	22	55	10	010220425	1,933
4,5	24	58	10	010220450	1,760
5	26	62	10	010220500	1,833
5,5	28	66	10	010220550	2,427
6	28	66	10	010220600	2,714

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



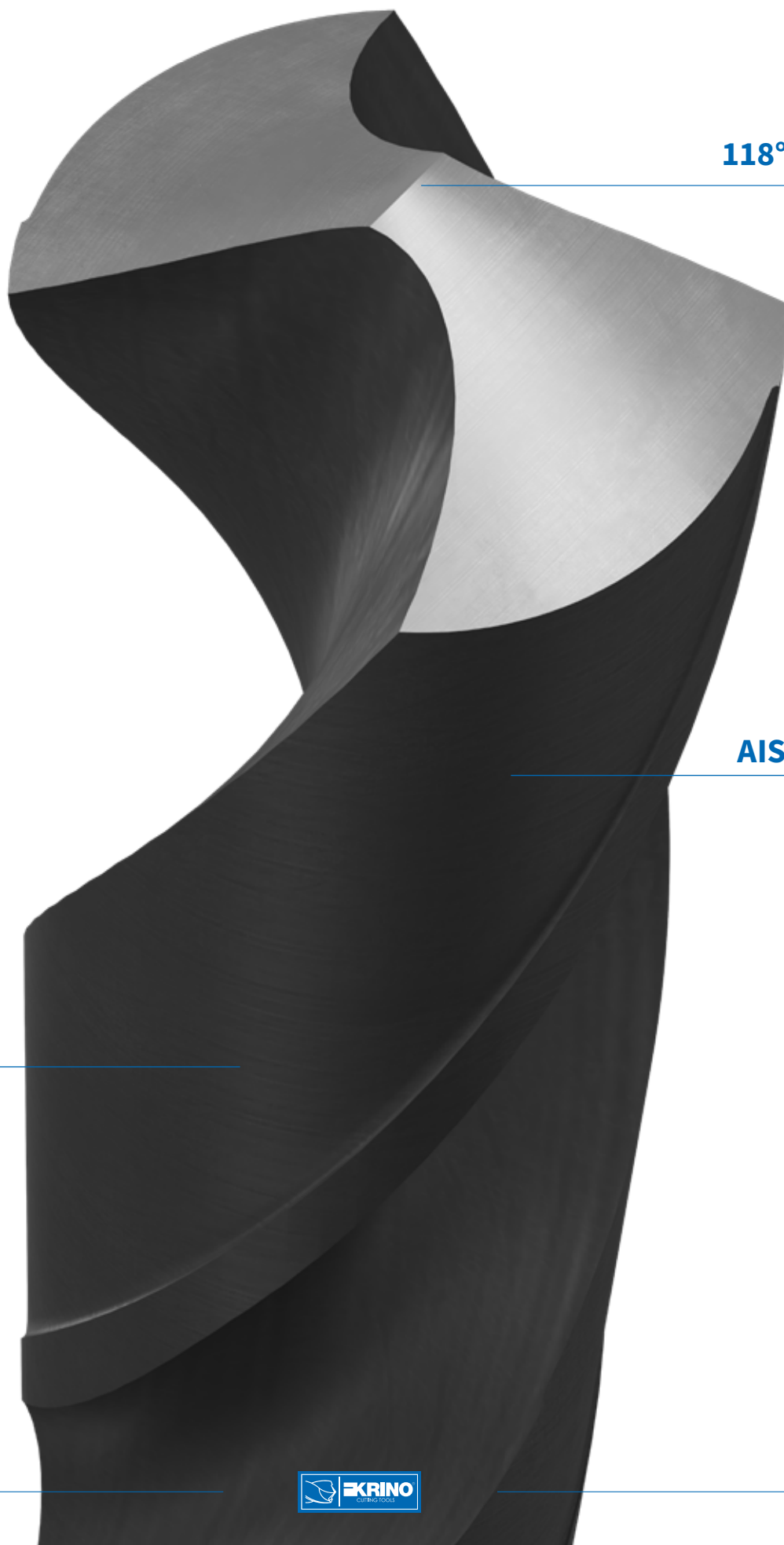
Acciaio
Steel



Emulsione
Lubrificant

Taglio dei materiali con $R \leq 800 \text{ N/mm}^2$ quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to $R \leq 800 \text{ N/mm}^2$.



118°

**HSS
AISI M2**

W 27°

PUNTE ELICOIDALI CILINDRICHE "BASIC", ESECUZIONE RETTIFICATA,
SERIE CORTA, FINITURA LUCIDA
"Basic" fully ground straight shank twist drills

01350

HSS-G

DIN 338 RETTIFICATA
Ground from the solid

Serie corta
Short serie



W 27°



HV = 750÷820
SPLIT POINT
DIN 1412C
(Ø ≥ 3 mm)



<5 d



Confezione
Packaging



R ≤ 700 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant





Art. 01351 Self
Disponibile su richiesta
On demand

Taglio dei materiali con R ≤ 700 N/mm²
quali acciai legati, ghise, tutti i metalli
in genere, la grafite.
Precisione di foratura e costanza
di rendimenti elevati.

High precision and high performances
in cutting alloy steel up to
R ≤ 700 N/mm².

Ø h8	l	L	pcs.	cod.	€ cad/each	Ø h8	l	L	pcs.	cod.	€ cad/each
0,2	2,5	19	10	013500020	1,199	4,9	52	86	10	013500490	1,199
0,25	3	19	10	013500025	1,199	5	52	86	10	013500500	1,137
0,3	3	19	10	013500030	1,199	5,1	52	86	10	013500510	1,560
0,35	4	19	10	013500035	1,199	5,2	52	86	10	013500520	1,560
0,4	5	20	10	013500040	1,199	5,25	52	86	10	013500525	1,560
0,45	5	20	10	013500045	1,199	5,3	52	86	10	013500530	1,560
0,5	6	22	10	013500050	1,032	5,4	57	93	10	013500540	1,560
0,55	7	24	10	013500055	1,032	5,5	57	93	10	013500550	1,518
0,6	7	24	10	013500060	1,032	5,6	57	93	10	013500560	1,663
0,65	8	26	10	013500065	1,032	5,7	57	93	10	013500570	1,663
0,7	9	28	10	013500070	1,032	5,75	57	93	10	013500575	1,663
0,75	9	28	10	013500075	1,032	5,8	57	93	10	013500580	1,663
0,8	10	30	10	013500080	1,032	5,9	57	93	10	013500590	1,663
0,85	10	30	10	013500085	1,032	6	57	93	10	013500600	1,591
0,9	11	32	10	013500090	1,032	6,1	63	101	10	013500610	2,035
0,95	11	32	10	013500095	1,032	6,2	63	101	10	013500620	2,035
1	12	34	10	013500100	0,774	6,25	63	101	10	013500625	2,035
1,1	14	36	10	013500110	0,804	6,3	63	101	10	013500630	2,035
1,2	16	38	10	013500120	0,804	6,4	63	101	10	013500640	2,035
1,25	16	38	10	013500125	0,804	6,5	63	101	10	013500650	1,963
1,3	16	38	10	013500130	0,804	6,6	63	101	10	013500660	2,365
1,4	18	40	10	013500140	0,804	6,7	63	101	10	013500670	2,365
1,5	18	40	10	013500150	0,703	6,75	69	109	10	013500675	2,365
1,6	20	43	10	013500160	0,660	6,8	69	109	10	013500680	2,365
1,7	20	43	10	013500170	0,660	6,9	69	109	10	013500690	2,365
1,75	22	46	10	013500175	0,660	7	69	109	10	013500700	2,293
1,8	22	46	10	013500180	0,660	7,1	69	109	5	013500710	2,570
1,9	22	46	10	013500190	0,660	7,2	69	109	5	013500720	2,570
2	24	49	10	013500200	0,578	7,25	69	109	5	013500725	2,570
2,1	24	49	10	013500210	0,671	7,3	69	109	5	013500730	2,570
2,2	27	53	10	013500220	0,671	7,4	69	109	5	013500740	2,570
2,25	27	53	10	013500225	0,671	7,5	69	109	5	013500750	2,426
2,3	27	53	10	013500230	0,671	7,6	75	117	5	013500760	3,057
2,4	30	57	10	013500240	0,671	7,7	75	117	5	013500770	3,057
2,5	30	57	10	013500250	0,640	7,75	75	117	5	013500775	3,057
2,6	30	57	10	013500260	0,774	7,8	75	117	5	013500780	3,057
2,7	33	61	10	013500270	0,774	7,9	75	117	5	013500790	3,057
2,75	33	61	10	013500275	0,774	8	75	117	5	013500800	2,892
2,8	33	61	10	013500280	0,774	8,1	75	117	5	013500810	3,748
2,9	33	61	10	013500290	0,774	8,2	75	117	5	013500820	3,748
3	33	61	10	013500300	0,724	8,25	75	117	5	013500825	3,748
3,1	36	65	10	013500310	0,897	8,3	75	117	5	013500830	3,748
3,2	36	65	10	013500320	0,897	8,4	75	117	5	013500840	3,748
3,25	36	65	10	013500325	0,897	8,5	75	117	5	013500850	3,562
3,3	36	65	10	013500330	0,897	8,6	81	125	5	013500860	3,902
3,4	39	70	10	013500340	0,897	8,7	81	125	5	013500870	3,902
3,5	39	70	10	013500350	0,867	8,75	81	125	5	013500875	3,902
3,6	39	70	10	013500360	0,971	8,8	81	125	5	013500880	3,902
3,7	39	70	10	013500370	0,971	8,9	81	125	5	013500890	3,902
3,75	39	70	10	013500375	0,971	9	81	125	5	013500900	3,728
3,8	43	75	10	013500380	0,971	9,1	81	125	5	013500910	4,079
3,9	43	75	10	013500390	0,971	9,2	81	125	5	013500920	4,079
4	43	75	10	013500400	0,939	9,25	81	125	5	013500925	4,079
4,1	43	75	10	013500410	1,116	9,3	81	125	5	013500930	4,079
4,2	43	75	10	013500420	1,116	9,4	81	125	5	013500940	4,079
4,25	43	75	10	013500425	1,116	9,5	81	125	5	013500950	3,902
4,3	47	80	10	013500430	1,116	9,6	87	133	5	013500960	4,678
4,4	47	80	10	013500440	1,116	9,7	87	133	5	013500970	4,678
4,5	47	80	10	013500450	1,075	9,75	87	133	5	013500975	4,678
4,6	47	80	10	013500460	1,199	9,8	87	133	5	013500980	4,678
4,7	47	80	10	013500470	1,199	9,9	87	133	5	013500990	4,678
4,75	47	80	10	013500475	1,199	10	87	133	5	013501000	4,359
4,8	52	86	10	013500480	1,199	10,1	87	133	5	013501010	5,834

Serie corta
Short serie

Ø h8	l	L	 pcs.	cod.	€ cad/each	Ø h8	l	L	 pcs.	cod.	€ cad/each
10,2	87	133	5	013501020	5,834	15,4	120	178	3	013501540	16,873
10,25	87	133	5	013501025	5,834	15,5	120	178	3	013501550	16,873
10,3	87	133	5	013501030	5,834	15,6	120	178	3	013501560	17,802
10,4	87	133	5	013501040	5,834	15,7	120	178	3	013501570	17,802
10,5	87	133	5	013501050	5,204	15,75	120	178	3	013501575	17,802
10,6	87	133	5	013501060	6,981	15,8	120	178	3	013501580	17,802
10,7	94	142	5	013501070	6,981	15,9	120	178	3	013501590	17,802
10,75	94	142	5	013501075	6,981	16	120	178	3	013501600	17,802
10,8	94	142	5	013501080	6,981	16,25	125	184	1	013501625	20,250
10,9	94	142	5	013501090	6,981	16,5	125	184	1	013501650	20,250
11	94	142	5	013501100	6,247	16,75	125	184	1	013501675	21,262
11,1	94	142	5	013501110	7,445	17	125	184	1	013501700	21,262
11,2	94	142	5	013501120	7,445	17,25	130	191	1	013501725	23,874
11,25	94	142	5	013501125	7,445	17,5	130	191	1	013501750	23,874
11,3	94	142	5	013501130	7,445	17,75	130	191	1	013501775	25,062
11,4	94	142	5	013501140	7,445	18	130	191	1	013501800	25,062
11,5	94	142	5	013501150	6,661	18,25	135	198	1	013501825	25,062
11,6	94	142	5	013501160	8,034	18,5	135	198	1	013501850	25,062
11,7	94	142	5	013501170	8,034	18,75	135	198	1	013501875	26,921
11,75	94	142	5	013501175	8,034	19	135	198	1	013501900	26,921
11,8	94	142	5	013501180	8,034	19,25	140	205	1	013501925	30,050
11,9	101	151	5	013501190	8,034	19,5	140	205	1	013501950	30,050
12	101	151	5	013501200	7,176	19,75	140	205	1	013501975	30,886
12,1	101	151	5	013501210	8,767	20	140	205	1	013502000	30,886
12,2	101	151	5	013501220	8,767						
12,25	101	151	5	013501225	8,767						
12,3	101	151	5	013501230	8,767						
12,4	101	151	5	013501240	8,767						
12,5	101	151	5	013501250	7,828						
12,6	101	151	5	013501260	9,284						
12,7	101	151	5	013501270	9,284						
12,75	101	151	5	013501275	9,284						
12,8	101	151	5	013501280	9,284						
12,9	101	151	5	013501290	9,284						
13	101	151	5	013501300	8,292						
13,1	101	151	3	013501310	11,482						
13,2	101	151	3	013501320	11,482						
13,25	108	160	3	013501325	11,482						
13,3	108	160	3	013501330	11,482						
13,4	108	160	3	013501340	11,482						
13,5	108	160	3	013501350	11,482						
13,6	108	160	3	013501360	12,485						
13,7	108	160	3	013501370	12,485						
13,75	108	160	3	013501375	12,485						
13,8	108	160	3	013501380	12,485						
13,9	108	160	3	013501390	12,485						
14	108	160	3	013501400	12,485						
14,1	108	160	3	013501410	14,518						
14,2	114	169	3	013501420	14,518						
14,25	114	169	3	013501425	14,518						
14,3	114	169	3	013501430	14,518						
14,4	114	169	3	013501440	14,518						
14,5	114	169	3	013501450	14,518						
14,6	114	169	3	013501460	15,191						
14,7	114	169	3	013501470	15,191						
14,75	114	169	3	013501475	15,191						
14,8	114	169	3	013501480	15,191						
14,9	114	169	3	013501490	15,191						
15	114	169	3	013501500	15,191						
15,1	120	178	3	013501510	16,873						
15,2	120	178	3	013501520	16,873						
15,25	120	178	3	013501525	16,873						
15,3	120	178	3	013501530	16,873						

PUNTE ELICOIDALI CILINDRICHE "BASIC", CON CODOLO RIDOTTO,
INTERAMENTE RETTIFICATE, FINITURA LUCIDA
Fully ground straight shank twist drills

01352

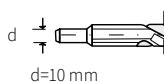
HSS-G

DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 10mm
Reduced shank - 10mm




<5 d



Confezione
Packaging



Ø h8	l	L	d	 pcs.	cod.	€ cad/each
10,25	87	133	10	5	013521025	8,205
10,5	87	133	10	5	013521050	7,589
10,75	94	142	10	5	013521075	9,338
11	94	142	10	5	013521100	8,614
11,25	94	142	10	5	013521125	9,814
11,5	94	142	10	5	013521150	9,025
11,75	94	142	10	5	013521175	10,386
12	101	151	10	5	013521200	9,543
12,25	101	151	10	5	013521225	11,108
12,5	101	151	10	5	013521250	10,181
12,75	101	151	10	5	013521275	11,616
13	101	151	10	5	013521300	11,119
13,25	108	160	10	3	013521325	15,621
13,5	108	160	10	3	013521350	15,621
13,75	108	160	10	3	013521375	15,913
14	108	160	10	3	013521400	15,913
14,25	114	169	10	3	013521425	18,040
14,5	114	169	10	3	013521450	18,040
14,75	114	169	10	3	013521475	18,752
15	114	169	10	3	013521500	18,752
15,25	120	178	10	3	013521525	20,523
15,5	120	178	10	3	013521550	20,523
15,75	120	178	10	3	013521575	21,494
16	120	178	10	3	013521600	21,494
16,5	125	184	10	1	013521650	24,074
17	125	184	10	1	013521700	25,132
17,5	130	191	10	1	013521750	27,884
18	130	191	10	1	013521800	29,126
18,5	135	198	10	1	013521850	29,126
19	135	198	10	1	013521900	31,081
19,5	140	205	10	1	013521950	34,363
20	140	205	10	1	013522000	35,248

R ≤ 700 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

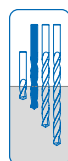
PUNTE ELICOIDALI CILINDRICHE "BASIC", CON CODOLO RIDOTTO,
INTERAMENTE RETTIFICATE, FINITURA LUCIDA
Fully ground straight shank twist drills

01354

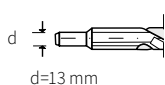
HSS-G

DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 13mm
Reduced shank - 13mm



<5 d



d=13 mm



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	013541325	15,621
13,5	108	160	13	3	013541350	15,621
13,75	108	160	13	3	013541375	15,913
14	108	160	13	3	013541400	15,913
14,25	114	169	13	3	013541425	18,040
14,5	114	169	13	3	013541450	18,040
14,75	114	169	13	3	013541475	18,752
15	114	169	13	3	013541500	18,752
15,25	120	178	13	3	013541525	20,523
15,5	120	178	13	3	013541550	20,523
15,75	120	178	13	3	013541575	21,494
16	120	178	13	3	013541600	21,494
16,5	125	184	13	1	013541650	24,074
17	125	184	13	1	013541700	25,132
17,5	130	191	13	1	013541750	27,884
18	130	191	13	1	013541800	29,126
18,5	135	198	13	1	013541850	29,126
19	135	198	13	1	013541900	31,081
19,5	140	205	13	1	013541950	34,363
20	140	205	13	1	013542000	35,248
20,5	145	213	13	1	013542050	40,626
21	145	213	13	1	013542100	40,626
21,5	150	221	13	1	013542150	41,633
22	150	221	13	1	013542200	41,633
22,5	150	221	13	1	013542250	42,899
23	155	229	13	1	013542300	42,899
23,5	155	229	13	1	013542350	44,743
24	160	236	13	1	013542400	51,227
24,5	160	236	13	1	013542450	46,337
25	160	236	13	1	013542500	51,227

R ≤ 700 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE "BASIC", RETTIFICATE LUCIDE, SERIE EXTRA CORTA

Fully ground straight shank twist drills

01356

HSS-G

DIN 1897 RETTIFICATA

Ground from the solid

Serie extra corta

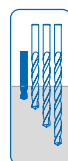
Extra short serie



W 27°



HV = 750÷820
SPLIT POINT
DIN 1412C



< 3 d



Confezione
Packaging



R ≤ 700 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø	l	L	pcs.	cod.	€ cad/each
1,5	9	32	10	013560150	0,672
2	12	38	10	013560200	0,713
2,2	13	40	10	013560220	0,889
2,25	13	40	10	013560225	0,889
2,5	14	43	10	013560250	1,073
2,75	16	46	10	013560275	1,073
2,8	16	46	10	013560280	1,073
3	16	46	10	013560300	1,148
3,1	18	49	10	013560310	1,261
3,2	18	49	10	013560320	1,261
3,25	18	49	10	013560325	1,261
3,5	20	52	10	013560350	1,261
3,7	20	52	10	013560370	1,394
3,75	20	52	10	013560375	1,394
4	22	55	10	013560400	1,394
4,1	22	55	10	013560410	1,170
4,2	22	55	10	013560420	1,170
4,25	22	55	10	013560425	1,170
4,5	24	58	10	013560450	1,170
4,75	24	58	10	013560475	1,360
4,8	26	62	10	013560480	1,360
5	26	62	10	013560500	1,360
5,1	26	62	10	013560510	1,560
5,2	26	62	10	013560520	1,560
5,25	26	62	10	013560525	1,560
5,5	28	66	10	013560550	1,560
5,75	28	66	10	013560575	1,751
6	28	66	10	013560600	1,751
6,25	31	70	10	013560625	1,938
6,5	31	70	10	013560650	1,938
6,75	34	74	10	013560675	2,239
7	34	74	10	013560700	2,239
7,25	34	74	5	013560725	2,498
7,5	34	74	5	013560750	2,498
7,75	37	79	5	013560775	2,779
8	37	79	5	013560800	2,779
8,25	37	79	5	013560825	3,201
8,5	37	79	5	013560825	3,201
8,75	40	84	5	013560875	3,780
9	40	84	5	013560900	3,780
9,25	40	84	5	013560925	4,233
9,5	40	84	5	013560950	4,233
9,75	40	84	5	013560975	4,683
10	43	89	5	013561000	4,683
10,25	43	89	5	013561025	4,989
10,5	43	89	5	013561050	4,989
10,75	47	95	5	013561075	4,989
11	47	95	5	013561100	5,292
11,25	47	95	5	013561125	5,744
11,5	47	95	5	013561150	5,744
11,75	47	95	5	013561175	6,500
12	51	102	5	013561200	6,500
12,25	51	102	5	013561225	6,804
12,5	51	102	5	013561250	6,804
12,75	51	102	5	013561275	7,256
13	51	102	5	013561300	7,256



PUNTE ELICOIDALI CILINDRICHE "BASIC", RETTIFICATE LUCIDE, SERIE LUNGA

Long straight shank twist drills

01358

HSS-G

DIN 340 RETTIFICATA

Ground from the solid

Serie lunga

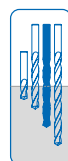
Long serie



W 27°



HV= 750÷820
SPLIT POINT
DIN 1412C



<8 d



Confezione
Packaging



R ≤ 700 N/mm²

Applicazioni
Applications



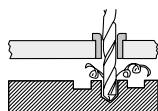
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Ø	l	L	pcs.	cod.	€ cad/each
1	33	56	10	013580100	1,103
1,5	45	70	10	013580150	1,284
1,75	53	80	10	013580175	1,399
2	56	85	10	013580200	1,399
2,25	59	90	10	013580225	1,523
2,5	62	95	10	013580250	1,523
2,75	66	100	10	013580275	1,735
3	66	100	10	013580300	1,934
3,25	69	106	10	013580325	2,356
3,5	73	112	10	013580350	2,356
3,75	73	112	10	013580375	2,596
4	78	119	10	013580400	2,596
4,25	78	119	10	013580425	2,848
4,5	82	126	10	013580450	2,848
4,75	82	126	10	013580475	3,062
5	87	132	10	013580500	3,062
5,25	87	132	10	013580525	3,551
5,5	91	139	10	013580550	3,551
5,75	91	139	10	013580575	3,950
6	91	139	10	013580600	3,950
6,25	97	148	5	013580625	4,542
6,5	97	148	5	013580650	4,542
6,75	97	148	5	013580675	5,224
7	102	156	5	013580700	5,224
7,25	102	156	5	013580725	6,021
7,5	102	156	5	013580750	6,021
7,75	109	165	5	013580775	6,978
8	109	165	5	013580800	6,978
8,25	109	165	5	013580825	7,604
8,5	109	165	5	013580850	7,604
8,75	115	175	5	013580875	8,751
9	115	175	5	013580900	8,751
9,25	115	175	5	013580925	9,344
9,5	115	175	5	013580950	9,344
9,75	121	184	5	013580975	10,882
10	121	184	5	013581000	10,882
10,25	121	184	5	013581025	12,112
10,5	121	184	5	013581050	12,112
10,75	128	195	5	013581075	14,119
11	128	195	5	013581100	14,119
11,25	128	195	5	013581125	15,661
11,5	128	195	5	013581150	15,661
11,75	134	205	5	013581175	17,559
11,8	134	205	5	013581180	17,559
12	134	205	5	013581200	17,559
12,25	134	205	5	013581225	18,771
12,5	134	205	5	013581250	18,771
12,75	134	205	5	013581275	19,558
13	134	205	5	013581300	19,558
13,5	140	214	3	013581350	21,486
14	140	214	3	013581400	24,642
14,5	144	220	3	013581450	27,152
15	144	220	3	013581500	28,868
15,5	149	227	3	013581550	29,513
16	149	227	3	013581600	30,608
16,5	154	235	1	013581650	33,385
17	154	235	1	013581700	34,401
17,5	158	241	1	013581750	37,754
18	158	241	1	013581800	40,642
18,5	162	247	1	013581850	42,822
19	162	247	1	013581900	45,632
19,5	166	254	1	013581950	47,733
20	166	254	1	013582000	50,645

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE, QUALITÀ STANDARD, FINITURA BLACK & WHITE

Standard fully ground straight shank drills with black & white finish

01080

HSS-G

DIN 338 RETTIFICATA

Ground from the solid

Serie corta

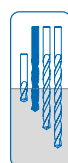
Short serie



W 27°



HV = 750÷820
SPLIT POINT
DIN 1412C



<math>< 5 d</math>



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant





Art. 01081 Self
Disponibile su richiesta
On demand

Taglio del ferro, acciaio, metalli in genere con R ≤ 650 N/mm².

For drilling in iron, steel, metals up to R ≤ 650 N/mm².

Ø	l	L	pcs.	cod.	€ cad/each
1	12	34	10	010800100	0,601
1,1	14	36	10	010800110	0,642
1,2	16	38	10	010800120	0,642
1,25	16	38	10	010800125	0,642
1,3	16	38	10	010800130	0,601
1,4	18	40	10	010800140	0,601
1,5	18	40	10	010800150	0,601
1,6	20	43	10	010800160	0,642
1,7	20	43	10	010800170	0,642
1,75	22	46	10	010800175	0,642
1,8	22	46	10	010800180	0,590
1,9	22	46	10	010800190	0,590
2	24	49	10	010800200	0,590
2,1	24	49	10	010800210	0,684
2,2	27	53	10	010800220	0,684
2,25	27	53	10	010800225	0,684
2,3	27	53	10	010800230	0,632
2,4	30	57	10	010800240	0,632
2,5	30	57	10	010800250	0,632
2,6	30	57	10	010800260	0,684
2,7	33	61	10	010800270	0,684
2,75	33	61	10	010800275	0,684
2,8	33	61	10	010800280	0,642
2,9	33	61	10	010800290	0,642
3	33	61	10	010800300	0,642
3,1	36	65	10	010800310	0,853
3,2	36	65	10	010800320	0,853
3,25	36	65	10	010800325	0,853
3,3	36	65	10	010800330	0,789
3,4	39	70	10	010800340	0,789
3,5	39	70	10	010800350	0,789
3,6	39	70	10	010800360	0,915
3,7	39	70	10	010800370	0,915
3,75	39	70	10	010800375	0,915
3,8	43	75	10	010800380	0,873
3,9	43	75	10	010800390	0,873
4	43	75	10	010800400	0,873
4,1	43	75	10	010800410	0,990
4,2	43	75	10	010800420	0,990
4,25	43	75	10	010800425	0,990
4,3	47	80	10	010800430	0,937
4,4	47	80	10	010800440	0,937
4,5	47	80	10	010800450	0,937
4,6	47	80	10	010800460	1,052
4,7	47	80	10	010800470	1,052
4,75	47	80	10	010800475	1,052
4,8	52	86	10	010800480	0,959
4,9	52	86	10	010800490	0,959
5	52	86	10	010800500	0,959
5,1	52	86	10	010800510	1,411
5,2	52	86	10	010800520	1,411
5,25	52	86	10	010800525	1,411
5,3	52	86	10	010800530	1,274
5,4	57	93	10	010800540	1,274
5,5	57	93	10	010800550	1,274
5,6	57	93	10	010800560	1,485
5,7	57	93	10	010800570	1,485
5,75	57	93	10	010800575	1,485
5,8	57	93	10	010800580	1,348
5,9	57	93	10	010800590	1,348
6	57	93	10	010800600	1,348
6,1	63	101	10	010800610	1,674
6,2	63	101	10	010800620	1,674

Serie corta
Short serie

Ø	l	L	 pcs.	cod.	€ cad/each	Ø	l	L	 pcs.	cod.	€ cad/each
6,25	63	101	10	010800625	1,674	14,5	114	169	3	010801450	14,705
6,3	63	101	10	010800630	1,518	14,75	114	169	3	010801475	17,328
6,4	63	101	10	010800640	1,518	15	114	169	3	010801500	17,328
6,5	63	101	10	010800650	1,518	15,25	120	178	3	010801525	18,970
6,6	63	101	10	010800660	1,717	15,5	120	178	3	010801550	18,970
6,7	63	101	10	010800670	1,717	15,75	120	178	3	010801575	19,865
6,75	69	109	10	010800675	1,717	16	120	178	3	010801600	19,865
6,8	69	109	10	010800680	1,685	16,5	125	184	1	010801650	22,245
6,9	69	109	10	010800690	1,685	17	125	184	1	010801700	23,225
7	69	109	10	010800700	1,685	17,5	130	191	1	010801750	25,774
7,1	69	109	5	010800710	2,255	18	130	191	1	010801800	26,922
7,2	69	109	5	010800720	2,255	18,5	135	198	1	010801850	26,922
7,25	69	109	5	010800725	2,255	19	135	198	1	010801900	28,733
7,3	69	109	5	010800730	2,064	19,5	140	205	1	010801950	31,768
7,4	69	109	5	010800740	2,064	20	140	205	1	010802000	32,580
7,5	69	109	5	010800750	2,064						
7,6	75	117	5	010800760	2,422						
7,7	75	117	5	010800770	2,422						
7,75	75	117	5	010800775	2,422						
7,8	75	117	5	010800780	2,223						
7,9	75	117	5	010800790	2,223						
8	75	117	5	010800800	2,223						
8,1	75	117	5	010800810	3,338						
8,2	75	117	5	010800820	3,338						
8,25	75	117	5	010800825	3,338						
8,3	75	117	5	010800830	3,033						
8,4	75	117	5	010800840	3,033						
8,5	75	117	5	010800850	3,033						
8,6	81	125	5	010800860	3,581						
8,7	81	125	5	010800870	3,581						
8,75	81	125	5	010800875	3,581						
8,8	81	125	5	010800880	3,233						
8,9	81	125	5	010800890	3,233						
9	81	125	5	010800900	3,233						
9,1	81	125	5	010800910	3,761						
9,2	81	125	5	010800920	3,761						
9,25	81	125	5	010800925	3,761						
9,3	81	125	5	010800930	3,403						
9,4	81	125	5	010800940	3,403						
9,5	81	125	5	010800950	3,403						
9,6	87	133	5	010800960	3,981						
9,7	87	133	5	010800970	3,981						
9,75	87	133	5	010800975	3,981						
9,8	87	133	5	010800980	3,614						
9,9	87	133	5	010800990	3,614						
10	87	133	5	010801000	3,614						
10,25	87	133	5	010801025	4,560						
10,5	87	133	5	010801050	4,149						
10,75	94	142	5	010801075	4,751						
11	94	142	5	010801100	4,382						
11,25	94	142	5	010801125	5,129						
11,5	94	142	5	010801150	4,635						
11,75	94	142	5	010801175	5,519						
12	101	151	5	010801200	5,192						
12,25	101	151	5	010801225	6,026						
12,5	101	151	5	010801250	5,718						
12,75	101	151	5	010801275	7,753						
13	101	151	5	010801300	7,005						
13,25	108	160	3	010801325	12,419						
13,5	108	160	3	010801350	12,419						
13,75	108	160	3	010801375	12,756						
14	108	160	3	010801400	12,756						
14,25	114	169	3	010801425	14,705						

PUNTE ELICOIDALI CILINDRICHE ELICOIDALI, QUALITA' STANDARD, CODOLO RIDOTTO, FINITURA BLACK & WHITE

Standard fully ground straight shank drills with black & white finish

01082

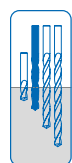
HSS-G

DIN 338 RETTIFICATA

Ground from the solid

Codolo ridotto - 10mm

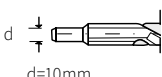
Reduced shank - 10mm



$< 5d$



Confezione
Packaging



$d=10\text{mm}$

$R \leq 650 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubricant

\emptyset	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	010821025	6,660
10,5	87	133	10	5	010821050	6,232
10,75	94	142	10	5	010821075	6,863
11	94	142	10	5	010821100	6,470
11,25	94	142	10	5	010821125	7,268
11,5	94	142	10	5	010821150	6,751
11,75	94	142	10	5	010821175	7,707
12	101	151	10	5	010821200	7,337
12,25	101	151	10	5	010821225	6,807
12,5	101	151	10	5	010821250	7,910
12,75	101	151	10	5	010821275	10,070
13	101	151	10	5	010821300	9,271
13,25	101	151	10	3	010821325	16,302
13,5	108	160	10	3	010821350	16,302
13,75	108	160	10	3	010821375	16,675
14	108	160	10	3	010821400	16,675
14,25	114	169	10	3	010821425	18,755
14,5	114	169	10	3	010821450	18,755
14,75	114	169	10	3	010821475	21,557
15	114	169	10	3	010821500	21,557
15,25	120	178	10	3	010821525	23,301
15,5	120	178	10	3	010821550	23,301
15,75	120	178	10	3	010821575	24,268
16	120	178	10	3	010821600	24,268
16,5	125	184	10	1	010821650	26,812
17	125	184	10	1	010821700	27,858
17,5	130	191	10	1	010821750	30,569
18	130	191	10	1	010821800	31,795
18,5	135	198	10	1	010821850	31,795
19	135	198	10	1	010821900	33,730
19,5	140	205	10	1	010821950	36,970
20	140	205	10	1	010822000	37,847

01084

HSS-G

DIN 338 RETTIFICATA

Ground from the solid

Codolo ridotto - 13mm

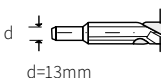
Reduced shank - 13mm



$< 5d$



Confezione
Packaging



$d=13\text{mm}$

\emptyset	l	L	d	pcs.	cod.	€ cad/each
13,25	101	151	13	3	010841325	16,302
13,5	108	160	13	3	010841350	16,302
13,75	108	160	13	3	010841375	16,675
14	108	160	13	3	010841400	16,675
14,25	114	169	13	3	010841425	18,755
14,5	114	169	13	3	010841450	18,755
14,75	114	169	13	3	010841475	21,557
15	114	169	13	3	010841500	21,557
15,25	120	178	13	3	010841525	23,301
15,5	120	178	13	3	010841550	23,301
15,75	120	178	13	3	010841575	24,268
16	120	178	13	3	010841600	24,268
16,5	125	184	13	1	010841650	26,812
17	125	184	13	1	010841700	27,858
17,5	130	191	13	1	010841750	30,569
18	130	191	13	1	010841800	31,795
18,5	135	198	13	1	010841850	31,795
19	135	198	13	1	010841900	33,730
19,5	140	205	13	1	010841950	36,970
20	140	205	13	1	010842000	37,847

PUNTE ELICOIDALI CILINDRICHE ELICOIDALI, QUALITA' STANDARD, FINITURA BLACK & WHITE

Standard fully ground straight shank drills with black & white finish

01087

HSS-G

DIN 1897

Ground from the solid

Serie corta

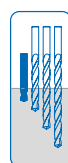
Short serie



W 27°



HV= 750÷820
SPLIT POINT
DIN 1412C



<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
3	16	46	10	010870300	0,731
3,25	18	49	10	010870325	0,970
3,5	20	52	10	010870350	0,897
3,75	20	52	10	010870375	1,040
4	22	55	10	010870400	0,993
4,25	22	55	10	010870425	1,125
4,5	24	58	10	010870450	1,065
4,75	24	58	10	010870475	1,089
5	26	62	10	010870500	1,089
5,25	26	62	10	010870525	1,161
5,5	28	66	10	010870550	1,447
5,75	28	66	10	010870575	1,531
6	28	66	10	010870600	1,531



01086

HSS-G

DIN 340

Ground from the solid

Serie lunga

Long serie



W 27°



HV= 750÷820
SPLIT POINT
DIN 1412C



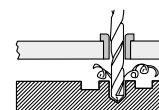
<8 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
3	66	100	10	010860300	1,281
3,25	69	106	10	010860325	1,628
3,5	73	112	10	010860350	1,628
3,75	73	112	10	010860375	1,712
4	78	119	10	010860400	1,712
4,25	78	119	10	010860425	2,346
4,5	82	126	10	010860450	2,346
4,75	82	126	10	010860475	2,382
5	87	132	10	010860500	2,382
5,25	87	132	10	010860525	2,716
5,5	91	139	10	010860550	2,716
5,75	91	139	10	010860575	2,776
6	91	139	10	010860600	2,776
6,5	97	148	5	010860650	3,603
7	102	156	5	010860700	3,674
7,5	102	156	5	010860750	4,250
8	109	165	5	010860800	4,729
8,5	109	165	5	010860850	7,134
9	115	175	5	010860900	7,170
9,5	115	175	5	010860950	8,020
10	121	184	5	010861000	8,091



PUNTE ELICOIDALI CILINDRICHE, SERIE CORTA, ESECUZIONE RULLATA

Rolled straight shank twist drills

01001

HSS-R

DIN 338 ESECUZIONE RULLATA
Rolled

Serie corta
Short serie



W 27°



HV= 750÷820



<math>< 5d</math>



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant




Art. 01002 Self
Disponibile su richiesta
On demand


Per forare: tutti i metalli, ferro, acciaio
etc...

For drilling in: iron, steel, metals...

Ø	l	L	pcs.	cod.	€ cad/each	Ø	l	L	pcs.	cod.	€ cad/each
0,3	3	19	10	010010030	1,313	5,1	52	86	10	010010510	0,973
0,35	4	19	10	010010035	1,165	5,2	52	86	10	010010520	0,973
0,4	5	20	10	010010040	1,165	5,25	52	86	10	010010525	0,973
0,45	5	20	10	010010045	1,165	5,3	52	86	10	010010530	0,973
0,5	6	22	10	010010050	0,963	5,4	57	93	10	010010540	0,973
0,55	7	24	10	010010055	1,165	5,5	57	93	10	010010550	0,888
0,6	7	24	10	010010060	0,963	5,6	57	93	10	010010560	1,001
0,65	8	26	10	010010065	0,937	5,7	57	93	10	010010570	1,001
0,7	9	28	10	010010070	0,813	5,75	57	93	10	010010575	1,001
0,75	9	28	10	010010075	0,813	5,8	57	93	10	010010580	1,001
0,8	10	30	10	010010080	0,813	5,9	57	93	10	010010590	1,001
0,85	10	30	10	010010085	0,850	6	57	93	10	010010600	0,925
0,9	11	32	10	010010090	0,888	6,1	63	101	10	010010610	1,225
0,95	11	32	10	010010095	0,850	6,2	63	101	10	010010620	1,225
1	12	34	10	010010100	0,539	6,25	63	101	10	010010625	1,225
1,1	14	36	10	010010110	0,539	6,3	63	101	10	010010630	1,225
1,2	16	38	10	010010120	0,539	6,4	63	101	10	010010640	1,225
1,25	16	38	10	010010125	0,539	6,5	63	101	10	010010650	1,113
1,3	16	38	10	010010130	0,501	6,6	63	101	10	010010660	1,438
1,4	18	40	10	010010140	0,501	6,7	63	101	10	010010670	1,438
1,5	18	40	10	010010150	0,376	6,75	69	109	10	010010675	1,438
1,6	20	43	10	010010160	0,426	6,8	69	109	10	010010680	1,438
1,7	20	43	10	010010170	0,426	6,9	69	109	10	010010690	1,438
1,75	22	46	10	010010175	0,426	7	69	109	10	010010700	1,313
1,8	22	46	10	010010180	0,426	7,1	69	109	5	010010710	1,562
1,9	22	46	10	010010190	0,426	7,2	69	109	5	010010720	1,562
2	24	49	10	010010200	0,389	7,25	69	109	5	010010725	1,562
2,1	24	49	10	010010210	0,437	7,3	69	109	5	010010730	1,562
2,2	27	53	10	010010220	0,437	7,4	69	109	5	010010740	1,562
2,25	27	53	10	010010225	0,437	7,5	69	109	5	010010750	1,438
2,3	27	53	10	010010230	0,437	7,6	75	117	5	010010760	1,936
2,4	30	57	10	010010240	0,437	7,7	75	117	5	010010770	1,936
2,5	30	57	10	010010250	0,420	7,75	75	117	5	010010775	1,936
2,6	30	57	10	010010260	0,500	7,8	75	117	5	010010780	1,936
2,7	33	61	10	010010270	0,500	7,9	75	117	5	010010790	1,936
2,75	33	61	10	010010275	0,500	8	75	117	5	010010800	1,824
2,8	33	61	10	010010280	0,500	8,1	75	117	5	010010810	2,075
2,9	33	61	10	010010290	0,500	8,2	75	117	5	010010820	2,075
3	33	61	10	010010300	0,460	8,25	75	117	5	010010825	2,075
3,1	36	65	10	010010310	0,539	8,3	75	117	5	010010830	2,075
3,2	36	65	10	010010320	0,539	8,4	75	117	5	010010840	2,075
3,25	36	65	10	010010325	0,539	8,5	75	117	5	010010850	1,888
3,3	36	65	10	010010330	0,539	8,6	81	125	5	010010860	2,376
3,4	39	70	10	010010340	0,539	8,7	81	125	5	010010870	2,376
3,5	39	70	10	010010350	0,501	8,75	81	125	5	010010875	2,376
3,6	39	70	10	010010360	0,613	8,8	81	125	5	010010880	2,376
3,7	39	70	10	010010370	0,613	8,9	81	125	5	010010890	2,376
3,75	39	70	10	010010375	0,613	9	81	125	5	010010900	2,164
3,8	43	75	10	010010380	0,613	9,1	81	125	5	010010910	2,687
3,9	43	75	10	010010390	0,613	9,2	81	125	5	010010920	2,687
4	43	75	10	010010400	0,549	9,25	81	125	5	010010925	2,687
4,1	43	75	10	010010410	0,688	9,3	81	125	5	010010930	2,687
4,2	43	75	10	010010420	0,688	9,4	81	125	5	010010940	2,687
4,25	43	75	10	010010425	0,688	9,5	81	125	5	010010950	2,425
4,3	47	80	10	010010430	0,688	9,6	87	133	5	010010960	2,999
4,4	47	80	10	010010440	0,688	9,7	87	133	5	010010970	2,999
4,5	47	80	10	010010450	0,613	9,75	87	133	5	010010975	2,999
4,6	47	80	10	010010460	0,786	9,8	87	133	5	010010980	2,999
4,7	47	80	10	010010470	0,786	9,9	87	133	5	010010990	2,999
4,75	47	80	10	010010475	0,786	10	87	133	5	010011000	2,788
4,8	52	86	10	010010480	0,786	10,1	87	133	5	010011010	4,263
4,9	52	86	10	010010490	0,786	10,2	87	133	5	010011020	4,263
5	52	86	10	010010500	0,712	10,25	87	133	5	010011025	3,527

Serie corta
Short serie

Ø	l	L	 pcs.	cod.	€ cad/each
10,3	87	133	5	010011030	4,263
10,4	87	133	5	010011040	4,263
10,5	87	133	5	010011050	3,213
10,6	87	133	5	010011060	4,874
10,7	94	142	5	010011070	4,874
10,75	94	142	5	010011075	4,088
10,8	94	142	5	010011080	4,874
10,9	94	142	5	010011090	4,874
11	94	142	5	010011100	3,687
11,1	94	142	5	010011110	5,300
11,2	94	142	5	010011120	5,300
11,25	94	142	5	010011125	4,413
11,3	94	142	5	010011130	5,300
11,4	94	142	5	010011140	5,300
11,5	94	142	5	010011150	4,000
11,6	94	142	5	010011160	5,664
11,7	94	142	5	010011170	5,664
11,75	94	142	5	010011175	4,725
11,8	94	142	5	010011180	5,664
11,9	101	151	5	010011190	5,664
12	101	151	5	010011200	4,325
12,1	101	151	5	010011210	6,214
12,2	101	151	5	010011220	6,214
12,25	101	151	5	010011225	5,176
12,3	101	151	5	010011230	6,214
12,4	101	151	5	010011240	6,214
12,5	101	151	5	010011250	4,738
12,6	101	151	5	010011260	6,513
12,7	101	151	5	010011270	6,513
12,75	101	151	5	010011275	5,436
12,8	101	151	5	010011280	6,513
12,9	101	151	5	010011290	6,513
13	101	151	5	010011300	5,025
13,25	108	160	3	010011325	7,338
13,5	108	160	3	010011350	6,801
13,75	108	160	3	010011375	7,338
14	108	160	3	010011400	6,801
14,25	114	169	3	010011425	8,313
14,5	114	169	3	010011450	7,614
14,75	114	169	3	010011475	10,849
15	114	169	3	010011500	9,864
15,25	120	178	3	010011525	12,212
15,5	120	178	3	010011550	11,101
15,75	120	178	3	010011575	13,414
16	120	178	3	010011600	12,201
16,25	125	184	1	010011625	15,525
16,5	125	184	1	010011650	12,901
16,75	125	184	1	010011675	15,525
17	125	184	1	010011700	12,901
17,25	130	191	1	010011725	16,850
17,5	130	191	1	010011750	14,039
17,75	130	191	1	010011775	16,850
18	130	191	1	010011800	15,427
18,25	135	198	1	010011825	19,765
18,5	135	198	1	010011850	16,463
18,75	135	198	1	010011875	19,765
19	135	198	1	010011900	16,463
19,25	140	205	1	010011925	23,051
19,5	140	205	1	010011950	19,239
19,75	140	205	1	010011975	23,051
20	140	205	1	010012000	19,239
20,5	145	213	1	010012050	21,802
21	145	213	1	010012100	23,815

Ø	l	L	 pcs.	cod.	€ cad/each
21,5	150	221	1	010012150	25,654
22	150	221	1	010012200	26,839
22,5	150	221	1	010012250	27,353
23	155	229	1	010012300	29,551
23,5	155	229	1	010012350	35,153
24	160	236	1	010012400	36,040
24,5	160	236	1	010012450	36,616
25	160	236	1	010012500	37,491

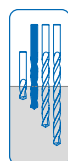
PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO,
ESECUZIONE RULLATA
Reduced shank twist drills

01003

HSS-R

DIN 338 ESECUZIONE RULLATA
Rolled

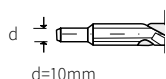
Codolo ridotto - 10mm
Reduced shank - 10mm



<5 d



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Art. 01005 Self
Disponibile su richiesta
On demand

Ø	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	010031025	5,369
10,5	87	133	10	5	010031050	4,537
10,75	94	142	10	5	010031075	6,039
11	94	142	10	5	010031100	5,015
11,25	94	142	10	5	010031125	6,392
11,5	94	142	10	5	010031150	5,308
11,75	94	142	10	5	010031175	6,746
12	101	151	10	5	010031200	5,636
12,25	101	151	10	5	010031225	7,251
12,5	101	151	10	5	010031250	6,065
12,75	101	151	10	5	010031275	7,821
13	101	151	10	5	010031300	6,506
13,25	108	160	10	3	010031325	10,107
13,5	108	160	10	3	010031350	8,401
13,75	108	160	10	3	010031375	10,107
14	108	160	10	3	010031400	8,401
14,25	114	169	10	3	010031425	10,891
14,5	114	169	10	3	010031450	9,361
14,75	114	169	10	3	010031475	12,494
15	114	169	10	3	010031500	11,498
15,25	120	178	10	3	010031525	14,402
15,5	120	178	10	3	010031550	12,584
15,75	120	178	10	3	010031575	14,402
16	120	178	10	3	010031600	13,859
16,25	125	184	10	1	010031625	16,764
16,5	125	184	10	1	010031650	14,580
16,75	125	184	10	1	010031675	16,764
17	125	184	10	1	010031700	14,580
17,25	125	184	10	1	010031725	18,054
17,5	130	191	10	1	010031750	15,705
17,75	130	191	10	1	010031775	18,054
18	130	191	10	1	010031800	15,705
18,25	130	191	10	1	010031825	20,835
18,5	135	198	10	1	010031850	18,117
18,75	135	198	10	1	010031875	20,835
19	135	198	10	1	010031900	18,117
19,25	135	198	10	1	010031925	23,967
19,5	140	205	10	1	010031950	20,835
19,75	140	205	10	1	010031975	23,967
20	140	205	10	1	010032000	20,835

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO,
ESECUZIONE RULLATA
Reduced shank twist drills

01004

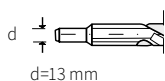
HSS-R

DIN 338 ESECUZIONE RULLATA
Rolled

Codolo ridotto - 13mm
Reduced shank - 13mm



<5 d



Confezione
Packaging



Ø	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	010041325	10,107
13,5	108	160	13	3	010041350	8,401
13,75	108	160	13	3	010041375	10,107
14	108	160	13	3	010041400	8,401
14,25	114	169	13	3	010041425	10,891
14,5	114	169	13	3	010041450	9,361
14,75	114	169	13	3	010041475	12,494
15	114	169	13	3	010041500	11,498
15,25	120	178	13	3	010041525	14,402
15,5	120	178	13	3	010041550	12,584
15,75	120	178	13	3	010041575	14,402
16	120	178	13	3	010041600	13,859
16,25	125	184	13	1	010041625	16,764
16,5	125	184	13	1	010041650	14,580
16,75	125	184	13	1	010041675	16,764
17	125	184	13	1	010041700	14,580
17,25	130	191	13	1	010041725	18,054
17,5	130	191	13	1	010041750	15,705
17,75	130	191	13	1	010041775	18,054
18	130	191	13	1	010041800	15,705
18,25	135	198	13	1	010041825	20,835
18,5	135	198	13	1	010041850	18,117
18,75	135	198	13	1	010041875	20,835
19	135	198	13	1	010041900	18,117
19,25	140	205	13	1	010041925	23,967
19,5	140	205	13	1	010041950	20,835
19,75	140	205	13	1	010041975	23,967
20	140	205	13	1	010042000	20,835
20,5	145	213	13	1	010042050	28,793
21	145	213	13	1	010042100	31,003
21,5	150	221	13	1	010042150	33,025
22	150	221	13	1	010042200	34,326
22,5	150	221	13	1	010042250	34,882
23	155	229	13	1	010042300	37,322
23,5	155	229	13	1	010042350	43,462
24	160	236	13	1	010042400	44,423
24,5	160	236	13	1	010042450	45,065
25	160	236	13	1	010042500	46,039

R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Art. 01005 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI CILINDRICHE SERIE EXTRA CORTA, ESECUZIONE RULLATA

Straight shank twist drills-stub serie

01018

HSS-R

DIN 1897 ESECUZIONE RULLATA
Rolled

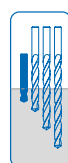
Serie extra corta
Extra short serie



W 27°



HV_{0,05} = 750 ± 820



< 3 d



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Art. 01019 Self
Disponibile su richiesta
On demand

Ø	l	L	pcs.	cod.	€ cad/each
2	12	38	10	010180200	0,516
2,2	13	40	10	010180220	0,542
2,25	13	40	10	010180225	0,542
2,5	14	43	10	010180250	0,542
2,75	16	46	10	010180275	0,556
2,8	16	46	10	010180280	0,556
3	16	46	10	010180300	0,556
3,2	18	49	10	010180320	0,632
3,25	18	49	10	010180325	0,632
3,3	18	49	10	010180330	0,632
3,5	20	52	10	010180350	0,632
3,75	20	52	10	010180375	0,697
3,8	22	55	10	010180380	0,697
4	22	55	10	010180400	0,697
4,2	22	55	10	010180420	0,824
4,25	22	55	10	010180425	0,824
4,5	24	58	10	010180450	0,824
4,75	24	58	10	010180475	0,955
4,8	26	62	10	010180480	0,955
5	26	62	10	010180500	0,955
5,2	26	62	10	010180520	1,186
5,25	26	62	10	010180525	1,186
5,5	28	66	10	010180550	1,186
5,75	28	66	10	010180575	1,201
5,8	28	66	10	010180580	1,201
6	28	66	10	010180600	1,201
6,5	31	70	5	010180650	1,575
7	34	74	5	010180700	1,781
7,5	34	74	5	010180750	2,037
8	37	79	5	010180800	2,593
8,5	37	79	5	010180850	2,942
9	40	84	5	010180900	3,432
9,5	40	84	5	010180950	3,728
10	43	89	5	010181000	4,657



PUNTE ELICOIDALI CILINDRICHE SERIE LUNGA, ESECUZIONE RULLATA

Straight shank twist drills, long serie

01020

HSS-R

DIN 340 ESECUZIONE RULLATA

Rolled

Serie lunga

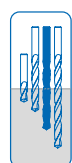
Long serie



W 27°



HV = 750÷820



<8 d



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

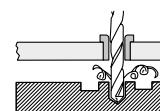


Art. 01021 Self
Disponibile su richiesta
On demand

Per forare: tutti i metalli,
ferro, acciaio etc...

For drilling in: iron, steel, metals...

Ø	l	L	pcs.	cod.	€ cad/each
1,5	45	70	10	010200150	1,954
1,75	53	80	10	010200175	1,515
2	56	85	10	010200200	1,515
2,2	59	90	10	010200220	1,608
2,25	59	90	10	010200225	1,608
2,5	62	95	10	010200250	1,608
2,75	66	100	10	010200275	1,648
2,8	66	100	10	010200280	1,648
3	66	100	10	010200300	1,648
3,2	69	106	10	010200320	1,915
3,25	69	106	10	010200325	1,915
3,5	73	112	10	010200350	1,915
3,75	73	112	10	010200375	2,100
3,8	78	119	10	010200380	2,100
4	78	119	10	010200400	2,100
4,2	78	119	10	010200420	2,485
4,25	78	119	10	010200425	2,485
4,5	82	126	10	010200450	2,485
4,75	82	126	10	010200475	2,647
4,8	87	132	10	010200480	2,647
5	87	132	10	010200500	2,647
5,2	87	132	10	010200520	3,311
5,25	87	132	10	010200525	3,311
5,5	91	139	10	010200550	3,311
5,75	91	139	10	010200575	3,565
5,8	91	139	10	010200580	3,565
6	91	139	10	010200600	3,565
6,25	97	148	5	010200625	4,282
6,5	97	148	5	010200650	4,282
6,75	97	148	5	010200675	5,027
7	102	156	5	010200700	5,027
7,25	102	156	5	010200725	5,411
7,5	102	156	5	010200750	5,411
7,75	109	165	5	010200775	6,077
8	109	165	5	010200800	6,077
8,25	109	165	5	010200825	6,649
8,5	109	165	5	010200850	6,649
8,75	115	175	5	010200875	7,075
9	115	175	5	010200900	7,075
9,25	115	175	5	010200925	7,195
9,5	115	175	5	010200950	7,195
9,75	121	184	5	010200975	8,313
10	121	184	5	010201000	8,313
10,5	121	184	5	010201050	10,653
11	128	195	5	010201100	11,491
11,5	128	195	5	010201150	11,902
12	134	205	5	010201200	13,020
12,5	134	205	5	010201250	13,485
13	134	205	5	010201300	15,319
13,5	140	214	3	010201350	22,356
14	140	214	3	010201400	22,356
14,5	144	220	3	010201450	23,806
15	144	220	3	010201500	29,325
15,5	149	227	3	010201550	30,614
16	149	227	3	010201600	33,341
17	154	235	1	010201700	39,963
18	158	241	1	010201800	43,953
19	162	247	1	010201900	48,461
20	166	254	1	010202000	54,406



PUNTE HSS RULLATE IN POLLICI

HSS roll-forged straight shank twist drills-jobber's length

01030

HSS-R

ANSI B94 ESECUZIONE RULLATA
Rolled

Serie corta - Pollici
Short serie - Inches



W 27°



HV= 750÷820



<math>L <math>



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Per forare: tutti i metalli,
ferro, acciaio etc...

For drilling in: iron, steel, metals...

Ø inch	Ø mm	l inch	L inch	pcs.	cod.	€ cad/each
1/64	0,40	13/64	7/8	10	0103011	0,917
1/32	0,79	13/32	1-1/4	10	0103012	0,917
3/64	1,19	5/8	1-3/4	10	0103013	0,917
1/16	1,59	7/8	1-7/8	10	0103014	0,358
5/64	1,98	1"	2"	10	0103015	0,373
3/32	2,38	1-1/4	2-1/4	10	0103016	0,384
7/64	2,78	1-1/2	2-5/8	10	0103017	0,424
1/8	3,17	1-5/8	2-3/4	10	0103018	0,440
9/64	3,57	1-3/4	2-7/8	10	0103019	0,533
5/32	3,97	2"	3-1/8	10	0103020	0,600
11/64	4,37	2-1/8	3-1/4	10	0103021	0,612
3/16	4,76	2-5/16	3-1/2	10	0103022	0,718
13/64	5,16	2-7/16	3-5/8	10	0103023	0,797
7/32	5,56	2-1/2	3-3/4	10	0103024	0,904
15/64	5,95	2-5/8	3-7/8	10	0103025	0,933
1/4	6,35	2-3/4	4"	10	0103026	1,053
17/64	6,75	2-7/8	4-1/8	10	0103027	1,304
9/32	7,14	2-15/16	4-1/4	5	0103028	1,449
19/64	7,54	3-1/16	4-3/8	5	0103029	1,543
5/16	7,94	3-3/16	4-1/2	5	0103030	1,902
21/64	8,33	3-5/16	4-5/8	5	0103031	2,022
11/32	8,73	3-7/16	4-3/4	5	0103032	2,287
23/64	9,13	3-1/2	4-7/8	5	0103033	2,406
3/8	9,52	3-5/8	5"	5	0103034	2,446
25/64	9,92	3-3/4	5-1/8	5	0103035	3,073
13/32	10,32	3-7/8	5-1/4	5	0103036	3,179
27/64	10,72	3-15/16	5-3/8	5	0103037	3,272
7/16	11,11	4-1/16	5-1/2	5	0103038	3,631
29/64	11,51	4-3/16	5-5/8	5	0103039	3,684
15/32	11,91	4-5/16	5-3/4	5	0103040	4,415
31/64	12,30	4-7/16	5-7/8	5	0103041	4,602
1/2	12,70	4-1/2	6"	5	0103042	4,788
33/64	13,00	4-13/16	6-5/8	5	0103043	5,652
17/32	13,50	4-13/16	6-5/8	3	0103044	5,812
35/64	14,00	4-13/16	6-5/8	3	0103045	6,412
9/16	14,30	4-13/16	6-5/8	3	0103046	7,035
37/64	14,70	4-13/16	6-5/8	3	0103047	8,338
19/32	15,00	5-3/16	7-1/8	3	0103048	9,602
39/64	15,50	5-3/16	7-1/8	3	0103049	10,638
5/8	16,00	5-3/16	7-1/8	3	0103050	11,637
11/16	17,50	5-3/16	7-1/8	1	0103054	14,562
3/4	19,00	5-5/16	7-3/8	1	0103058	16,636

PUNTE HSS RULLATE IN POLLICI CON CODOLO RIDOTTO

Reduced shank HSS roll-forged straight shank twist drills-jobber's length

01034

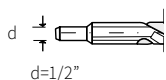
HSS

SILVER&DEMING ANSI B94
ESECUZIONE FRESATA
Milled

Codolo ridotto - Pollici 1/2"
Reduced shank - Inches 1/2"



<math>< 5d</math>




$d=1/2''$



Confezione
Packaging



\emptyset inch	\emptyset mm	l inch	L inch	D	 pcs.	cod.	€ cad/each
17/32	13,50	3-1/8	6"	1/2"	1	0103402	13,415
9/16	14,30	3-1/8	6"	1/2"	1	0103404	13,599
19/32	15,00	3-1/8	6"	1/2"	1	0103406	15,385
5/8	16,00	3-1/8	6"	1/2"	1	0103408	15,594
21/32	16,70	3-1/8	6"	1/2"	1	0103410	16,807
11/16	17,50	3-1/8	6"	1/2"	1	0103412	18,343
23/32	18,25	3-1/8	6"	1/2"	1	0103414	19,557
3/4	19,00	3-1/8	6"	1/2"	1	0103416	21,279
25/32	20,00	3-1/8	6"	1/2"	1	0103418	22,596
13/16	20,50	3-1/8	6"	1/2"	1	0103420	24,863
27/32	21,50	3-1/8	6"	1/2"	1	0103422	26,624
7/8	22,25	3-1/8	6"	1/2"	1	0103424	29,701
29/32	23,00	3-1/8	6"	1/2"	1	0103426	33,092
15/16	24,00	3-1/8	6"	1/2"	1	0103428	35,502
31/32	24,50	3-1/8	6"	1/2"	1	0103430	39,141
1"	25,40	3-1/8	6"	1/2"	1	0103432	41,854
1.3/32	27,75	3-1/8	6"	1/2"	1	0103438	50,718
1.1/8	28,50	3-1/8	6"	1/2"	1	0103440	51,619
1.1/4	31,75	3-1/8	6"	1/2"	1	0103448	84,422
1.3/8	35,00	3-1/8	6"	1/2"	1	0103456	106,796
1.1/2	38,00	3-1/8	6"	1/2"	1	0103464	159,784

$R \leq 650 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Per forare: tutti i metalli,
ferro, acciaio etc...

For drilling in: iron, steel, metals...

PUNTE PER OTTONE E PER MATERIALI A TRUCIOLO CORTO, SERIE CORTA

Fully ground twist drills for brass

01091

HSS-G

DIN 338 RETTIFICATA

Ground from the solid

Speciale per ottone

Special for brass



H 20°




<math>< d</math>



Confezione
Packaging



Ø h8	l	L	 pcs.	cod.	€ cad/each
1	12	34	10	010910100	4,471
1,5	18	40	10	010910150	3,966
2	24	49	10	010910200	3,966
2,25	27	53	10	010910225	4,540
2,5	30	57	10	010910250	4,049
2,75	33	61	10	010910275	4,906
3	33	61	10	010910300	4,460
3,25	36	65	10	010910325	5,398
3,5	39	70	10	010910350	4,906
3,75	39	70	10	010910375	5,867
4	43	75	10	010910400	5,317
4,25	43	75	10	010910425	7,264
4,5	47	80	10	010910450	6,430
4,75	47	80	10	010910475	7,345
5	52	86	10	010910500	6,607
5,25	52	86	10	010910525	9,363
5,5	57	93	10	010910550	8,917
5,75	57	93	10	010910575	9,363
6	57	93	10	010910600	8,508
6,25	63	101	10	010910625	11,204
6,5	63	101	10	010910650	10,199
6,75	69	109	10	010910675	11,394
7	69	109	10	010910700	10,362
7,5	69	109	5	010910750	15,208
7,75	75	117	5	010910775	16,938
8	75	117	5	010910800	16,260
8,25	75	117	5	010910825	16,502
8,5	75	117	5	010910850	15,249
8,75	81	125	5	010910875	17,242
9	81	125	5	010910900	15,761
9,25	81	125	5	010910925	17,972
9,5	81	125	5	010910950	17,242
9,75	87	133	5	010910975	19,077
10	87	133	5	010911000	17,595
10,5	87	133	5	010911050	21,404
11	94	142	5	010911100	26,004
11,5	94	142	5	010911150	30,530
12	101	151	5	010911200	33,377
12,5	101	151	5	010911250	34,745
13	101	151	5	010911300	34,745

R ≤ 650 N/mm²

Applicazioni
Applications



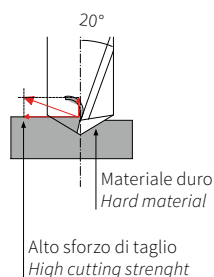
Ottone
Brass



Truciolo corto
Short chip



Emulsione
Lubrificant



PUNTE PER ALLUMINIO E PER MATERIALI A TRUCIOLO LUNGO, SERIE CORTA

Fully ground twist drills for light alloys

01092

HSS-G

DIN 338 RETTIFICATA

Ground from the solid

Speciale per alluminio

Special for aluminium



W 35°



<math>< 5d</math>



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications

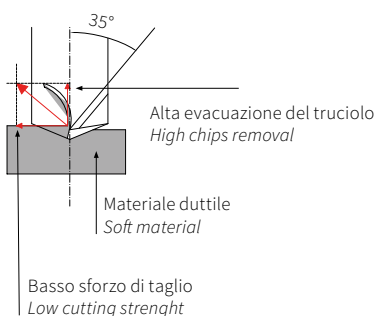


Alluminio
Aluminum



Trucio lungo
Long chip

Ø h8	l	L	pcs. 	cod.	€ cad/each
1	12	34	10	010920100	4,471
1,5	18	40	10	010920150	3,966
2	24	49	10	010920200	3,966
2,25	27	53	10	010920225	4,540
2,5	30	57	10	010920250	4,049
2,75	33	61	10	010920275	4,906
3	33	61	10	010920300	4,460
3,2	36	65	10	010920320	5,398
3,25	36	65	10	010920325	5,398
3,5	39	70	10	010920350	4,906
3,75	39	70	10	010920375	5,867
4	43	75	10	010920400	5,317
4,2	43	75	10	010920420	7,264
4,25	43	75	10	010920425	7,264
4,5	47	80	10	010920450	6,430
4,75	47	80	10	010920475	7,345
5	52	86	10	010920500	6,607
5,2	52	86	10	010920520	9,363
5,25	52	86	10	010920525	9,363
5,5	57	93	10	010920550	8,917
5,75	57	93	10	010920575	9,363
6	57	93	10	010920600	8,508
6,25	63	101	10	010920625	11,204
6,5	63	101	10	010920650	10,199
6,75	69	109	10	010920675	11,394
7	69	109	10	010920700	10,362
7,25	69	109	5	010920725	15,208
7,5	69	109	5	010920750	16,158
7,75	75	117	5	010920775	17,996
8	75	117	5	010920800	17,277
8,25	75	117	5	010920825	17,532
8,5	75	117	5	010920850	16,203
8,75	81	125	5	010920875	18,320
9	81	125	5	010920900	16,746
9,25	81	125	5	010920925	19,095
9,5	81	125	5	010920950	18,320
9,75	87	133	5	010920975	20,270
10	87	133	5	010921000	18,696
10,5	87	133	5	010921050	22,742
11	94	142	5	010921100	27,629
11,5	94	142	5	010921150	32,437
12	101	151	5	010921200	35,464
12,5	101	151	5	010921250	36,916
13	101	151	5	010921300	36,916



ASSORTIMENTI DI PUNTE PER METALLO: UN FORMATO PER OGNI ESIGENZA

Metal cutting twist drills assortments: one size for every need

Per ciascuna tipologia di punta sono disponibili diverse tipologie e dimensioni di assortimenti: individua il più adatto alla tue esigenze e consulta la visione d'insieme alla pagina successiva.

Different types and sizes of assortments are available for each type of twist drill: identify the most suitable for your needs and consult the overview on the next page.



SELETTORE IN PLASTICA PLASTIC SELECTOR

Contenitore in plastica di forma cilindrica, permette una pratica organizzazione delle punte per diametro. Disponibile solo per le punte rullate.

Cylindrical plastic box, allows a practical organization of the twist drills by diameter. Only available for rolled twist drills.

n. pezzi No. pieces	Range ø punte Drill bit ø range	Passo (mm) Passo (mm)
19	1÷10	0,5



SLIM LINE SLIM LINE

Astucci in PPT compatti e leggeri, grazie alla profilo estremamente sottile sono la scelta ideale per l'allestimento di assortimenti a libero servizio. Disponibili i 4 diversi assortimenti con i diametri ed i passi di maggiore utilizzo.

Compact and light PPT boxes, thanks to the extremely thin profile, are the ideal choice for the set-up of self-service assortments. Available in 4 different assortments with the most commonly used diameters and pitches.

n. pezzi No. pieces	Range ø punte Drill bit ø range	Passo (mm) Passo (mm)
6	2÷8	1
10	1÷10	1
13	2÷8	0,5
13	1,5÷6,5	0,5 + prefori



BOX ABS ABS BOX

Box in ABS resistente agli urti, appendibili, proteggono le punte da polvere ed umidità, sono la scelta preferita dai professionisti per custodire i loro migliori assortimenti. Disponibili in due diverse dimensioni per assortimenti completi di interi e mezzi.

Shock-resistant ABS boxes, hangable, protect the twist drills from dust and humidity, they are the preferred choice by professionals to keep their best assortments. Available in two different sizes with whole numbers and fractions.

n. pezzi No. pieces	Range ø punte Drill bit ø range	Passo (mm) Passo (mm)
19	1÷10	0,5
25	1÷13	0,5



BOX IN METALLO METAL BOX

Box in metallo, appendibili, con pratica finestrella che rende visibili gli utensili contenuti, permettono di tenere organizzate le punte per diametro per una pratica e veloce individuazione. Disponibili in un'ampia scelta di assortimenti completi di interi, mezzi e decimali.

Metal box, hangable, with a practical window that makes the tools contained visible, allowing you to keep the twist drills organized by diameter for practical and quick identification. Available in a wide choice of complete assortments of whole numbers, fractions and decimals.

n. pezzi No. pieces	Range ø punte Drill bit ø range	Passo (mm) Passo (mm)
19	1÷10	0,5
25	1÷13	0,5
37	1÷10	0,25
49	1÷13	0,25
51	1÷6	0,1
41	6÷10	0,1



Dimensioni
Dimensions
330x240x55 mm

VALIGETTA IN METALLO METAL BOX

Valigetta in metallo con scoparti interni, permettono una funzionale e pratica organizzazione di una grande quantità di punte, preservandole da polvere ed umidità. Disponibili in due diversi assortimenti, il numero di pezzi contenuti varia in base alla tipologia di punta contenuta.

Metal case with internal compartments, they allow a functional and practical organization of a large one number of twist drills, preserving them from dust and humidity. Available in two different assortments, the number of pieces contained varies according to the type of twist drill contained.

n. pezzi No. pieces	Range ø punte Drill bit ø range	Passo (mm) Passo (mm)
116 +	1÷10	0,5
128 +	1÷13	0,5



Dimensioni versione compatta
Compact version Dimensions
375x240x200 mm

Dimensioni versione estesa
Extended version Dimensions
390x460x230 mm

Apertura solo frontale
Front only opening

ESPOSITORI DA BANCO IN METALLO METAL DISPLAYS

Espositori in metallo ideali per l'esposizione a banco di una gamma completa di punte. Il crowner personalizzato per ciascuna linea permette di comunicare il modo intuitivo la tipologia di punta contenuta e le sue principali caratteristiche tecniche. Disponibile in versione compatta, per assortimenti con passo 0,5 mm, o in versione grande per assortimenti completi con passo 0,25 mm. Il numero di pezzi contenuti varia in base alla tipologia di punta scelta.

Metal displays ideal to show a complete range of drill bits. The personalized crowner for each line allows you to intuitively communicate the type of twist drills contained and its main ones technical features. Available in compact version, for assortments with 0.5 mm pitch, or in version large for complete sets with 0.25 mm pitch. The number of pieces contained varies according to the chosen type of twist drill.

n. pezzi No. pieces	Range ø punte Drill bit ø range	Passo (mm) Passo (mm)
168 +	1÷13	0,5
240 +	1÷13	0,25

ESPOSITORI DA BANCO IN PLASTICA PLASTIC DISPLAYS

Espositori da banco in plastica per l'esposizione a banco di una gamma completa di punte con passo 0,5 mm. Il crowner personalizzato per ciascuna linea permette di comunicare il modo intuitivo la tipologia di punta contenuta e le sue principali caratteristiche tecniche. In base alla tipologia di punta varia il numero di pezzi contenuti.

Plastic displays to show a complete range of 0.5 mm pitch twist drills. The personalized crowner for each line allows you to intuitively communicate the type of twist drill contained and its main technical characteristics. The number of pieces varies according to the chosen type of twist drill.




























Dimensioni
Dimensions
400x345x210 mm

n. pezzi No. pieces	Range ø punte Drill bit ø range	Passo (mm) Passo (mm)
168 +	1÷13	0,5

VISIONE D'INSIEME: ASSORTIMENTI PUNTE PER METALLO, SERIE CORTA DIN 338

Overview: DIN 338 short serie twist drills assortments

		N° PCS.	6	10	13	13					
		GAMMA/RANGE Ø	2÷8	1÷10	2÷8	1.5÷6,5					
		PASSO/PITCH (mm)	1	1	0,5	0,5 + PREFORI					
		MATERIALE / MATERIAL	SLIM								
MATERIALE MATERIAL	RIVESTIMENTO COATING	CODICE PUNTA CODE	IMMAGINE IMAGE	1							
			COD.	€	COD.	€	COD.	€	COD.	€	
HM HSS	-	01093		01068208 (5 pcs)	94,502 €						
Co8% AISI M42	-	01120		01135204	30,995 €	01135201	68,720 €	01135205	67,374 €	01135203	47,165 €
Co5% AISI M35	TiAIN	01300									
	TiAIN	01305									
	-	01140									
	-	01139									
	-	01145		01155204	22,460 €	01155201	51,326 €	01155205	48,765 €	01155203	34,645 €
	-	01157									
HSS-G AISI M2	-	01220				01229201	50,500 €	01229205	47,500 €		
	-	01401		01402204	23,000 €	01402201	49,800 €	01402205	47,250 €		
	TiN	01320									
	TiN	01160		01170204	19,032 €	01170201	36,742 €	01170205	35,325 €	01170203	24,093 €
	-	01201		01205204	18,950 €	01205201	36,500 €	01205205	35,000 €	01205203	23,900 €
	-	01060		01068204	18,500 €	01068201	34,694 €	01068205	34,000 €	01068202	23,000 €
	-	01090 sx		01068209	29,750 €			01068207	45,000 €		
	-	01070		01075204	17,500 €	01075201	33,133 €	01075205	32,800 €	01075203	22,500 €
	-	01115									
	-	01079		01068700 (5 pcs)	22,948 €						
	-	01066				01068211	41,000 €	01068215	38,900 €		
HSS-G	-	01350				01360201	25,958 €	01360205	25,400 €		
	-	01080				01085201	21,640 €	01085205	21,300 €		
HSS-R	-	01001		01016204	8,098 €	01016201 (HSS) 09010231 (9 pcs HSS+W) 09013232 (9 pcs HSS+W+S)	13,926 € 11,500 € 11,708 €	01016205	13,789 €	01016203	10,089 €
	-	01030						01040202	12,126 €		
SPECIAL	-	01091						01068216	105,000 €		
	-	01092								01068203	79,500 €

19	19	19	25	19	25
1÷10	1÷10	1÷10	1÷13	1÷10	1÷13
0,5	0,5	0,5	0,5	0,5	0,5
SLIM	SELETTORE	ABS		METAL	

COD.	€	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
				01135301	121,267 €	01135302	266,802 €				
				01310301	216,839 €	01310302	393,763 €				
				01310305	277,144 €	01310306	503,860 €				
				01142401	154,503 €	01142402	328,563 €				
				01155303	135,093 €	01155304	311,105 €				
				01155301	88,547 €	01155302	177,094 €				
				01159401	105,766 €	01159402	265,119 €				
				01229301	92,394 €	01229302	191,391 €				
				01402301	90,542 €	01402302	187,562 €				
				01170311	105,007 €	01170312	210,917 €				
				01170301	54,792 €	01170302	122,475 €				
				01205301	62,230 €	01205302	129,019 €				
				01068301	56,681 €	01068302	114,551 €	01068401	55,567 €	01068402	110,258 €
				01068307	143,848 €	01068308	307,359 €				
				01075301	57,259 €	01075302	113,452 €	01075401	53,984 €	01075402	103,998 €
				01118401	64,060 €	01118402	141,008 €				
				01068311	54,673 €	01068312	117,169 €				
								01360401	40,173 €	01360402	70,286 €
								01085401	33,802 €	01085402	60,843 €
01016206	19,163 €	01016101 HSS 09001102 HSS+W 09005105 MIX	17,893 € 17,512 € 18,084 €					01016401	25,192 €	01016402	44,080 €
				01040401 (21 PCS)	29,433 €	01040402 (29 PCS)	59,994 €				



VISIONE D'INSIEME: ASSORTIMENTI PUNTE PER METALLO, SERIE CORTA DIN 338

Overview: DIN 338 short serie twist drills assortments

N° PCS.	37	49	51	41
GAMMA/RANGE Ø	1÷10	1÷13	1÷6	6÷10
PASSO/PITCH (mm)	0,25	0,25	0,1	0,1
MATERIALE / MATERIAL	METAL			

MATERIALE MATERIAL	RIVESTIMENTO COATING	CODICE PUNTA CODE	IMMAGINE IMAGE								
											

			COD.	€	COD.	€	COD.	€	COD.	€
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HM HSS	-	01093									
Co8% AISI M42	-	01120		01135411	275,904 €	01135412	614,702 €	01135403	220,980 €	01135404	665,644 €
Co5% AISI M35	TiAlN	01300									
	TiAlN	01305									
	-	01140									
	-	01139									
	-	01145		01155411	180,176 €	01155412	391,530 €	01155403	134,748 €	01155404	365,743 €
	-	01157									
HSS-G AISI M2	-	01220		01229411	176,416 €	01229412	374,408 €				
	-	01401									
	TiN	01320									
	TiN	01160		01170411	142,083 €	01170412	289,378 €	01170407	82,402 €	01170408	252,966 €
	-	01201		01205411	142,605 €	01205412	285,199 €	01205404	81,862 €	01205405	251,871 €
	-	01060		01068411	135,575 €	01068412	271,152 €	01068404	78,634 €	01068405	228,968 €
	-	01090 sx									
	-	01070		01075411	135,575 €	01075412	271,152 €	01075407	75,470 €	01075408	219,810 €
	-	01115									
	-	01079									
	-	01066		01068413	124,458 €	01068414	268,454 €	01068422	62,000 €	01068423	195,000 €
HSS-G	-	01350		01360411	98,838 €	01360412	181,861 €	01360407	50,500 €	01360408	125,800 €
	-	01080		01085411	92,214 €	01085412	163,611 €	01085407	45,000 €	01085408	110,000 €
HSS-R	-	01001		01016411	71,396 €	01016412	114,936 €	01016407	41,243 €	01016408	98,709 €
	-	01030									
SPECIAL	-	01091									
	-	01092									

116+		128+		168+		240+		128+	
1÷10		1÷13		1÷13		1÷13		1÷13	
0,5		0,5		0,5		0,25		0,5	
METAL						ABS			
									
COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
01135450 (116 pcs)	550,000 €	01135451 (148 pcs)	1.010,000 €	01135501 (168 pcs)	1.500,000 €	01135507 (240 pcs)	2.025,000 €	01135510 (128 pcs)	925,000 €
01310452 (71 pcs)	860,000 €								
01142450 (116 pcs)	550,000 €								
01155454 (116 pcs)	471,000 €								
01155450 (116 pcs)	372,000 €	01155451 (148 pcs)	659,000 €	01155501 (168 pcs)	955,000 €	01155507 (255 pcs)	1.514,000 €	01155510 (128 pcs)	604,000 €
01229450 (116 pcs)	386,000 €	01229451 (148 pcs)	647,000 €	01229501 (168 pcs)	942,000 €	01229502 (240 pcs)	1.285,000 €	01229510 (168 pcs)	919,000 €
01402450 (116 pcs)	370,000 €	01402451 (148 pcs)	623,000 €	01402501 (168 pcs)	898,000 €			01402510 (168 pcs)	876,000 €
01170452 (116 pcs)	372,000 €								
01170450 (116 pcs)	305,000 €	01170451 (148 pcs)	520,000 €	01170501 (168 pcs)	745,000 €	01170507 (255 pcs)	1.168,000 €	01170510 (158 pcs)	713,000 €
01205450 (150 pcs)	485,000 €	01205451 (188 pcs)	799,000 €	01205501 (540 pcs)	1.650,000 €	01205507 (700 pcs)	2.160,000 €	01205510 (168 pcs)	640,000 €
01068450 (150 pcs)	393,000 €	01068451 (188 pcs)	653,000 €	01068501 (600 pcs)	1.468,000 €	01068507 (760 pcs)	1.857,000 €	01068510 (168 pcs)	616,000 €
01075450 (150 pcs)	382,000 €	01075451 (188 pcs)	555,000 €	01075501 (600 pcs)	1.425,000 €	01075507 (760 pcs)	1.800,000 €	01075510 (168 pcs)	598,000 €
01068460 (150 pcs)	330,000 €								
01360450 (150 pcs)	222,000 €	01360451 (188 pcs)	367,000 €	01360502 (600 pcs)	833,000 €	01360507 (760 pcs)	1.045,000 €		
01085450 (150 pcs)	200,000 €	01085451 (188 pcs)	350,000 €	01085501 (720 pcs)	830,000 €	01085507 (900 pcs)	1.200,000 €		
01016450 (150 pcs)	145,000 €	01016451 (188 pcs)	260,000 €	01016501 (880 pcs)	613,000 €	01016507 (1110 pcs)	1.025,000 €	01016510 (610 pcs)	499,000 €

COMPOSIZIONE ASSORTIMENTI IN VALIGETTA ED ESPOSITORI DA BANCO

Composition of metal cases and displays

VALIGETTA IN METALLO

METAL CASE

1÷10 x 0,5 mm

Misure: 330x240x55 mm
Measures: 330x240x55 mm



COD ART.	01135450	01310452	01155454	01142450	01155450	01229450	01402450	01170452	01170450	01205450	01068450	01075450	01068460	01360450	01085450	01016450
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1,5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2,5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3	10	5	10	10	10	10	10	10	10	20	20	20	20	20	20	20
3,5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4,5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5,5	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
6	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
6,5	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
7	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
7,5	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
8	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
8,5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
9	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
9,5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
10	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
tot. pcs.	116	71	116	116	116	116	116	116	116	150	150	150	150	150	150	150

VALIGETTA IN METALLO

METAL CASE

1÷13 x 0,5 mm

Misure: 550x310x55 mm
Measures: 550x310x55 mm



COD ART.	01135451	01155451	01229451	01402451	01170451	01205451	01068451	01075451	01360451	01085451	01016451
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	10	10	10	10	10	10	10	10	10	10
1,5	10	10	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10	10	10
2,5	10	10	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	10	20	20	20	20	20
3,3	10	10	10	10	10	10	10	10	10	10	10
3,5	10	10	10	10	10	10	10	10	10	10	10
4	10	10	10	10	10	10	10	10	10	10	10
4,2	10	10	10	10	10	10	10	10	10	10	10
4,5	10	10	10	10	10	10	10	10	10	10	10
5	10	10	10	10	10	10	10	10	10	10	10
5,5	3	3	3	3	3	3	5	5	5	5	5
6	3	3	3	3	3	3	5	5	5	5	5
6,5	3	3	3	3	3	3	5	5	5	5	5
7	3	3	3	3	3	3	5	5	5	5	5
7,5	3	3	3	3	3	3	5	5	5	5	5
8	3	3	3	3	3	3	5	5	5	5	5
8,5	2	2	2	2	2	2	5	5	5	5	5
9	2	2	2	2	2	2	5	5	5	5	5
9,5	2	2	2	2	2	2	5	5	5	5	5
10	2	2	2	2	2	2	5	5	5	5	5
10,5	2	2	2	2	2	2	3	3	3	3	3
11	2	2	2	2	2	2	3	3	3	3	3
11,5	2	2	2	2	2	2	3	3	3	3	3
12	2	2	2	2	2	2	3	3	3	3	3
12,5	2	2	2	2	2	2	3	3	3	3	3
13	2	2	2	2	2	2	3	3	3	3	3
tot. pcs.	148	148	148	148	148	148	188	188	188	188	188

ESPOSITORE IN METALLO

METAL DISPLAY

1÷13 x 0,5 mm

Misure: 375x240x200 mm
Measures: 375x240x200 mm



COD ART.	01135501	01155501	01229501	01402501	01170501	01205501	01068501	01075501	01360501	01085501	01016501
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	10	10	10	10	30	30	30	30	30	50
1,5	10	10	10	10	10	30	30	30	30	30	100
2	10	10	10	10	10	50	50	50	50	50	100
2,5	10	10	10	10	10	50	50	50	50	70	100
3	10	10	10	10	10	80	100	100	100	100	150
3,5	10	10	10	10	10	50	50	50	50	70	100
4	10	10	10	10	10	80	100	100	100	100	100
4,5	10	10	10	10	10	30	30	30	30	50	30
5	10	10	10	10	10	30	30	30	30	50	30
5,5	10	10	10	10	10	10	20	20	20	30	10
6	10	10	10	10	10	20	20	20	20	40	20
6,5	5	5	5	5	5	5	10	10	10	10	10
7	5	5	5	5	5	5	10	10	10	10	10
7,5	5	5	5	5	5	5	5	5	5	5	5
8	5	5	5	5	5	10	10	10	10	20	10
8,5	5	5	5	5	5	5	5	5	5	5	5
9	5	5	5	5	5	5	5	5	5	5	5
9,5	5	5	5	5	5	5	5	5	5	5	5
10	5	5	5	5	5	10	10	10	10	10	10
10,5	3	3	3	3	3	5	5	5	5	5	5
11	3	3	3	3	3	5	5	5	5	5	5
11,5	3	3	3	3	3	5	5	5	5	5	5
12	3	3	3	3	3	5	5	5	5	5	5
12,5	3	3	3	3	3	5	5	5	5	5	5
13	3	3	3	3	3	5	5	5	5	5	5
tot. pcs.	168	168	168	168	168	540	600	600	600	720	880

ESPOSITORE IN METALLO METAL DISPLAY

1÷13 x 0,25 mm

Misure: 390x460x230 mm
Measures: 390x460x230 mm



COD ART.	01135507	01155507	01229502	01170507	01205507	01068507	01075507	01360507	01085507	01016510
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	10	10	10	20	30	30	30	30	50
1,25	5	5	5	5	10	10	10	10	10	10
1,5	10	10	10	10	30	30	30	30	30	50
1,75	5	5	5	5	10	10	10	10	10	10
2	10	10	10	10	40	50	50	50	50	50
2,25	5	5	5	5	10	10	10	10	10	10
2,5	10	10	10	10	50	50	50	50	50	100
2,75	5	5	5	5	10	10	10	10	10	20
3	10	10	10	10	100	100	100	100	100	100
3,25	10	10	10	10	10	10	10	10	10	20
3,5	10	10	10	10	50	50	50	50	100	100
3,75	10	10	10	10	10	10	10	10	10	20
4	10	10	10	10	60	80	80	80	100	100
4,25	10	10	10	10	10	10	10	10	10	10
4,5	10	10	10	10	50	50	50	50	50	50
4,75	3	3	3	3	10	10	10	10	10	10
5	10	10	10	10	40	60	60	60	100	50
5,25	3	3	3	3	5	5	5	5	5	10
5,5	10	10	10	10	30	30	30	30	30	30
5,75	2	3	2	3	5	5	5	5	5	10
6	10	10	10	10	30	30	30	30	30	30
6,25	2	2	2	2	3	3	3	3	3	10
6,5	5	5	5	5	20	20	20	20	20	30
6,75	2	2	2	2	2	2	2	2	3	10
7	5	5	5	5	5	5	5	5	10	30
7,25	2	2	2	2	2	2	2	2	2	5
7,5	5	5	5	5	5	5	5	5	5	30
7,75	2	2	2	2	2	2	2	2	2	3
8	5	5	5	5	10	10	10	10	20	30
8,25	2	2	2	2	2	2	2	2	2	3
8,5	3	5	3	5	5	5	5	5	5	20
8,75	2	2	2	2	2	2	2	2	2	3
9	3	5	3	5	5	5	5	5	5	20
9,25	2	2	2	2	2	2	2	2	2	2
9,5	3	5	3	5	5	5	5	5	5	20
9,75	2	2	2	2	2	2	2	2	2	2
10	3	5	3	5	10	10	10	10	10	10
10,25	2	2	2	2	2	2	2	2	2	2
10,5	2	3	2	3	3	3	3	3	5	5
10,75	2	2	2	2	2	2	2	2	2	2
11	2	3	2	3	3	3	3	3	5	5
11,25	2	2	2	2	2	2	2	2	2	2
11,5	2	3	2	3	2	2	2	2	5	5
11,75	2	2	2	2	2	2	2	2	2	2
12	2	3	2	3	3	3	3	3	5	5
12,25	2	2	2	2	2	2	2	2	2	2
12,5	2	3	2	3	2	2	2	2	5	5
12,75	2	2	2	2	2	2	2	2	2	2
13	2	3	2	3	3	3	3	3	5	5
tot. pcs.	240	255	240	255	700	760	760	760	900	1110

ESPOSITORE IN PLASTICA PLASTIC DISPLAY

1÷13 x 0,5 mm

Misure: 400X345X210 mm
Measures: 400X345X210 mm



COD ART.	01135510	01155510	01229510	01402510	01170510	01205510	01068510	01075510	01016510
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	10	10	10	10	10	10	10	30
1,5	10	10	10	10	10	10	10	10	50
2	10	10	10	10	10	10	10	10	50
2,5	10	10	10	10	10	10	10	10	50
3	10	10	20	20	10	20	20	20	100
3,5	10	10	10	10	10	10	10	10	50
4	10	10	10	10	10	10	10	10	100
4,5	10	10	10	10	10	10	10	10	30
5	10	10	10	10	10	10	10	10	30
5,5	3	3	5	5	5	5	5	5	10
6	3	3	5	5	5	5	5	5	20
6,5	3	3	5	5	5	5	5	5	10
7	3	3	5	5	5	5	5	5	10
7,5	3	3	5	5	5	5	5	5	5
8	3	3	5	5	5	5	5	5	10
8,5	2	2	5	5	5	5	5	5	5
9	2	2	5	5	5	5	5	5	5
9,5	2	2	5	5	5	5	5	5	5
10	2	2	5	5	5	5	5	5	10
10,5	2	2	3	3	3	3	3	3	5
11	2	2	3	3	3	3	3	3	5
11,5	2	2	3	3	3	3	3	3	5
12	2	2	3	3	3	3	3	3	5
12,5	2	2	3	3	3	3	3	3	5
13	2	2	3	3	3	3	3	3	5
tot. pcs.	128	128	168	168	158	168	168	168	610

VISIONE D'INSIEME: PUNTE GAMBO RINFORZATO E ATTACCO CONICO MORSE

Overview: reinforced shank twist drills and Morse taper shank

	MATERIALE MATERIAL	AFFILATURA SHARPENING	ELICA HELIX ANGLE	FORI DI LUBRIFICAZIONE OIL HOLES	IMMAGINE IMAGE	TITANIO E SUPERLEGHE Ti/Al/ND SUPERALLOY	INOX STAINLESS STEEL	ACCIAIO STEEL <1400 N/mm	ACCIAIO STEEL <900 N/mm	ACCIAIO STEEL <700 N/mm	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINUM AND ALLOYS	R _{sN} /mm ²
GAMBO RINFORZATO	MD	140°	27°	-		✓		✓	✓	✓	✓	✓	1200
		140°	27°	SI YES		✓	✓	✓	✓	✓	✓	✓	1200
CODOLO CONICO	HM HSS	118°	27°	-					✓	✓	✓		1100
	HSS Co	130°	27°	-			✓		✓	✓	✓	✓	1200
	HSS-G	118°	27°	-					✓	✓	✓	✓	800
		118°	27°	SI YES					✓	✓	✓	✓	800
HSS-R	118	27°	-						✓	✓		650	



COD.				01368	01369
				p.130	p.131
COD.				01366	01367
				p.132	p.133

COD.	01213				
	p.134				

COD.	01150				
	p.136				

COD.	01097	01028	01088		
	p.138	p.140	p.142		

COD.		01069			
		p.141			

COD.	01025				
	p.144				

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAIN CON GAMBO RINFORZATO, SERIE CORTA DIN 6537K

TiAIN coated tungsten carbide drill bits with reinforced shank, short serie DIN 6537K

01368

VHM

TiAIN

DIN 6537K METALLO DURO
Carbide

Serie corta
Short serie



W 27°

VHM+TiAIN
Senza fori
Without holes



<3 d

R ≤ 1200 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel

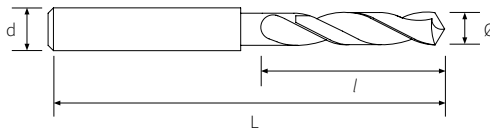


Titanio e superleghe
titanium and nickel-based super alloys

Confezione
Packaging



Ø m7	d h6	l	L	pcs.	cod.	€ cad/each	Ø m7	d h6	l	L	pcs.	cod.	€ cad/each
3	6	20	62	1	013680300	79,436	7,2	8	41	79	1	013680720	79,436
3,1	6	20	62	1	013680310	79,436	7,3	8	41	79	1	013680730	79,436
3,2	6	20	62	1	013680320	79,436	7,4	8	41	79	1	013680740	79,436
3,3	6	20	62	1	013680330	79,436	7,5	8	41	79	1	013680750	79,436
3,4	6	20	62	1	013680340	79,436	7,6	8	41	79	1	013680760	79,436
3,5	6	20	62	1	013680350	79,436	7,7	8	41	79	1	013680770	79,436
3,6	6	20	62	1	013680360	79,436	7,8	8	41	79	1	013680780	79,436
3,7	6	20	62	1	013680370	79,436	7,9	8	41	79	1	013680790	79,436
3,8	6	24	66	1	013680380	79,436	8	8	41	79	1	013680800	79,436
3,9	6	24	66	1	013680390	79,436	8,1	10	47	89	1	013680810	89,092
4	6	24	66	1	013680400	79,436	8,2	10	47	89	1	013680820	89,092
4,1	6	24	66	1	013680410	79,436	8,3	10	47	89	1	013680830	89,092
4,2	6	24	66	1	013680420	79,436	8,4	10	47	89	1	013680840	89,092
4,3	6	24	66	1	013680430	79,436	8,5	10	47	89	1	013680850	89,092
4,4	6	24	66	1	013680440	79,436	8,6	10	47	89	1	013680860	89,092
4,5	6	24	66	1	013680450	79,436	8,7	10	47	89	1	013680870	89,092
4,6	6	24	66	1	013680460	79,436	8,8	10	47	89	1	013680880	89,092
4,7	6	28	66	1	013680470	79,436	8,9	10	47	89	1	013680890	89,092
4,8	6	28	66	1	013680480	79,436	9	10	47	89	1	013680900	89,092
4,9	6	28	66	1	013680490	79,436	9,1	10	47	89	1	013680910	89,092
5	6	28	66	1	013680500	79,436	9,2	10	47	89	1	013680920	89,092
5,1	6	28	66	1	013680510	79,436	9,3	10	47	89	1	013680930	89,092
5,2	6	28	66	1	013680520	79,436	9,4	10	47	89	1	013680940	89,092
5,3	6	28	66	1	013680530	79,436	9,5	10	47	89	1	013680950	89,092
5,4	6	28	66	1	013680540	79,436	9,6	10	47	89	1	013680960	89,092
5,5	6	28	66	1	013680550	79,436	9,7	10	47	89	1	013680970	89,092
5,6	6	28	66	1	013680560	79,436	9,8	10	47	89	1	013680980	89,092
5,7	6	28	66	1	013680570	79,436	10	10	47	89	1	013681000	89,092
5,8	6	28	66	1	013680580	79,436	10,2	12	55	102	1	013681020	132,871
5,9	6	28	66	1	013680590	79,436	10,5	12	55	102	1	013681050	132,871
6	6	28	66	1	013680600	79,436	11	12	55	102	1	013681100	132,871
6,1	8	34	79	1	013680610	79,436	11,5	12	55	102	1	013681150	132,871
6,2	8	34	79	1	013680620	79,436	12	12	55	102	1	013681200	132,871
6,3	8	34	79	1	013680630	79,436	12,5	14	60	107	1	013681250	178,322
6,4	8	34	79	1	013680640	79,436	13	14	60	107	1	013681300	178,322
6,5	8	34	79	1	013680650	79,436	13,5	14	60	107	1	013681350	178,322
6,6	8	34	79	1	013680660	79,436	14	14	60	107	1	013681400	178,322
6,7	8	34	79	1	013680670	79,436	14,5	16	65	115	1	013681450	230,024
6,8	8	34	79	1	013680680	79,436	15	16	65	115	1	013681500	230,024
6,9	8	34	79	1	013680690	79,436	15,5	16	65	115	1	013681550	230,024
7	8	34	79	1	013680700	79,436	16	16	65	115	1	013681600	230,024
7,1	8	41	79	1	013680710	79,436							



Profondità di foratura 3 Ø
Cutting depth 3 Ø

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm², acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm², carbon steels, bronze, cast iron, high alloyed Al-Si alloys.

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAIN CON GAMBO RINFORZATO, SERIE LUNGA DIN 6537L

TiAIN coated tungsten carbide drill bits with reinforced shank, long serie DIN 6537L

01369

VHM

TiAIN

DIN 6537L METALLO DURO
Carbide

Serie lunga
Long serie



W 27°

VHM+TiAIN
Senza fori
Without holes



<5 d

R ≤ 1200 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel

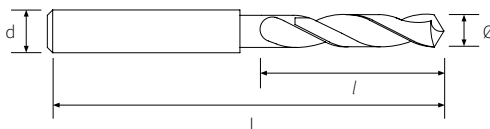


Titanio e superleghe
titanium and nickel-based super alloys

Confezione
Packaging



Ø m7	d h6	l	L	pcs.	cod.	€ cad/each	Ø m7	d h6	l	L	pcs.	cod.	€ cad/each
3	6	28	66	1	013690300	90,834	7,2	8	53	91	1	013690720	92,428
3,1	6	28	66	1	013690310	90,834	7,3	8	53	91	1	013690730	92,428
3,2	6	28	66	1	013690320	90,834	7,4	8	53	91	1	013690740	92,428
3,3	6	28	66	1	013690330	90,834	7,5	8	53	91	1	013690750	92,428
3,4	6	28	66	1	013690340	90,834	7,6	8	53	91	1	013690760	92,428
3,5	6	28	66	1	013690350	90,834	7,7	8	53	91	1	013690770	92,428
3,6	6	28	66	1	013690360	90,834	7,8	8	53	91	1	013690780	92,428
3,7	6	28	66	1	013690370	90,834	7,9	8	53	91	1	013690790	92,428
3,8	6	36	74	1	013690380	90,834	8	8	53	91	1	013690800	92,428
3,9	6	36	74	1	013690390	90,834	8,1	10	61	103	1	013690810	102,092
4	6	36	74	1	013690400	90,834	8,2	10	61	103	1	013690820	102,092
4,1	6	36	74	1	013690410	90,834	8,3	10	61	103	1	013690830	102,092
4,2	6	36	74	1	013690420	90,834	8,4	10	61	103	1	013690840	102,092
4,3	6	36	74	1	013690430	90,834	8,5	10	61	103	1	013690850	102,092
4,4	6	36	74	1	013690440	90,834	8,6	10	61	103	1	013690860	102,092
4,5	6	36	74	1	013690450	90,834	8,7	10	61	103	1	013690870	102,092
4,6	6	36	74	1	013690460	90,834	8,8	10	61	103	1	013690880	102,092
4,7	6	44	82	1	013690470	90,834	8,9	10	61	103	1	013690890	102,092
4,8	6	44	82	1	013690480	90,834	9	10	61	103	1	013690900	102,092
4,9	6	44	82	1	013690490	90,834	9,1	10	61	103	1	013690910	102,092
5	6	44	82	1	013690500	90,834	9,2	10	61	103	1	013690920	102,092
5,1	6	44	82	1	013690510	90,834	9,3	10	61	103	1	013690930	102,092
5,2	6	44	82	1	013690520	90,834	9,4	10	61	103	1	013690940	102,092
5,3	6	44	82	1	013690530	90,834	9,5	10	61	103	1	013690950	102,092
5,4	6	44	82	1	013690540	90,834	9,6	10	61	103	1	013690960	102,092
5,5	6	44	82	1	013690550	90,834	9,7	10	61	103	1	013690970	102,092
5,6	6	44	82	1	013690560	90,834	9,8	10	61	103	1	013690980	102,092
5,7	6	44	82	1	013690570	90,834	10	10	61	103	1	013691000	102,092
5,8	6	44	82	1	013690580	90,834	10,2	12	71	118	1	013691020	152,405
5,9	6	44	82	1	013690590	90,834	10,5	12	71	118	1	013691050	152,405
6	6	44	82	1	013690600	90,834	11	12	71	118	1	013691100	152,405
6,1	8	53	91	1	013690610	92,428	11,5	12	71	118	1	013691150	152,405
6,2	8	53	91	1	013690620	92,428	12	12	71	118	1	013691200	152,405
6,3	8	53	91	1	013690630	92,428	12,5	14	77	124	1	013691250	200,911
6,4	8	53	91	1	013690640	92,428	13	14	77	124	1	013691300	200,911
6,5	8	53	91	1	013690650	92,428	13,5	14	77	124	1	013691350	200,911
6,6	8	53	91	1	013690660	92,428	14	14	77	124	1	013691400	200,911
6,7	8	53	91	1	013690670	92,428	14,5	16	83	133	1	013691450	260,879
6,8	8	53	91	1	013690680	92,428	15	16	83	133	1	013691500	260,879
6,9	8	53	91	1	013690690	92,428	15,5	16	83	133	1	013691550	260,879
7	8	53	91	1	013690700	92,428	16	16	83	133	1	013691600	260,879
7,1	8	53	91	1	013690710	92,428							



Profondità di foratura 5 Ø
Cutting depth 5 Ø

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm², acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm², carbon steels, bronze, cast iron, high alloyed Al-Si alloys.

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAIN CON GAMBO RINFORZATO, SERIE CORTA DIN 6537K - CON FORI

TiAIN coated tungsten carbide drill bits with reinforced shank, short serie DIN 6537K

01366

VHM

TiAIN

DIN 6537K METALLO DURO
Carbide

Serie corta - con fori
Short serie - with holes



W 27°

VHM+TiAIN
Con fori
With holes



Confezione
Packaging



<math>< 3d</math>

$R \leq 1200 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals

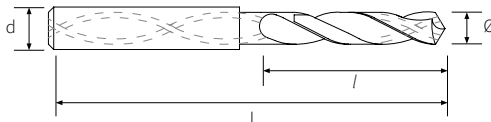


Acciaio
Steel



Titanio e superleghe
titanium and nickel-based super alloys

\emptyset m7	D h6	l	L	pcs.	cod.	€ cad/each	\emptyset m7	D h6	l	L	pcs.	cod.	€ cad/each
3	6	20	62	1	013660300	94,170	7,2	8	41	79	1	013660720	138,475
3,1	6	20	62	1	013660310	94,170	7,3	8	41	79	1	013660730	138,475
3,2	6	20	62	1	013660320	94,170	7,4	8	41	79	1	013660740	138,475
3,3	6	20	62	1	013660330	94,170	7,5	8	41	79	1	013660750	138,475
3,4	6	20	62	1	013660340	94,170	7,6	8	41	79	1	013660760	138,475
3,5	6	20	62	1	013660350	94,170	7,7	8	41	79	1	013660770	138,475
3,6	6	20	62	1	013660360	94,170	7,8	8	41	79	1	013660780	138,475
3,7	6	20	62	1	013660370	94,170	7,9	8	41	79	1	013660790	138,475
3,8	6	24	66	1	013660380	94,170	8	8	41	79	1	013660800	138,475
3,9	6	24	66	1	013660390	94,170	8,1	10	47	89	1	013660810	155,250
4	6	24	66	1	013660400	102,061	8,2	10	47	89	1	013660820	155,250
4,1	6	24	66	1	013660410	102,061	8,3	10	47	89	1	013660830	155,250
4,2	6	24	66	1	013660420	102,061	8,4	10	47	89	1	013660840	155,250
4,3	6	24	66	1	013660430	102,061	8,5	10	47	89	1	013660850	155,250
4,4	6	24	66	1	013660440	102,061	8,6	10	47	89	1	013660860	155,250
4,5	6	24	66	1	013660450	102,061	8,7	10	47	89	1	013660870	155,250
4,6	6	24	66	1	013660460	102,061	8,8	10	47	89	1	013660880	155,250
4,7	6	28	66	1	013660470	102,061	8,9	10	47	89	1	013660890	155,250
4,8	6	28	66	1	013660480	102,061	9	10	47	89	1	013660900	155,250
4,9	6	28	66	1	013660490	102,061	9,1	10	47	89	1	013660910	155,250
5	6	28	66	1	013660500	102,061	9,2	10	47	89	1	013660920	155,250
5,1	6	28	66	1	013660510	102,061	9,3	10	47	89	1	013660930	155,250
5,2	6	28	66	1	013660520	102,061	9,4	10	47	89	1	013660940	155,250
5,3	6	28	66	1	013660530	102,061	9,5	10	47	89	1	013660950	155,250
5,4	6	28	66	1	013660540	102,061	9,6	10	47	89	1	013660960	155,250
5,5	6	28	66	1	013660550	102,061	9,7	10	47	89	1	013660970	155,250
5,6	6	28	66	1	013660560	102,061	9,8	10	47	89	1	013660980	155,250
5,7	6	28	66	1	013660570	102,061	10	10	47	89	1	013661000	155,250
5,8	6	28	66	1	013660580	102,061	10,2	12	55	102	1	013661020	222,202
5,9	6	28	66	1	013660590	102,061	10,5	12	55	102	1	013661050	222,202
6	6	28	66	1	013660600	102,061	11	12	55	102	1	013661100	222,202
6,1	8	34	79	1	013660610	138,475	11,5	12	55	102	1	013661150	222,202
6,2	8	34	79	1	013660620	138,475	12	12	55	102	1	013661200	222,202
6,3	8	34	79	1	013660630	138,475	12,5	14	60	107	1	013661250	310,489
6,4	8	34	79	1	013660640	138,475	13	14	60	107	1	013661300	310,489
6,5	8	34	79	1	013660650	138,475	13,5	14	60	107	1	013661350	310,489
6,6	8	34	79	1	013660660	138,475	14	14	60	107	1	013661400	310,489
6,7	8	34	79	1	013660670	138,475	14,5	16	65	115	1	013661450	379,008
6,8	8	34	79	1	013660680	138,475	15	16	65	115	1	013661500	379,008
6,9	8	34	79	1	013660690	138,475	15,5	16	65	115	1	013661550	379,008
7	8	34	79	1	013660700	138,475	16	16	65	115	1	013661600	379,008
7,1	8	41	79	1	013660710	138,475							



Profondità di foratura $3 \emptyset$
Cutting depth $3 \emptyset$

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm^2 , acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm^2 , carbon steels, bronze, cast iron, high alloyed Al-Si alloys.

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAIN CON GAMBO RINFORZATO, SERIE LUNGA DIN 6537L - CON FORI

TiAIN coated tungsten carbide drill bits with reinforced shank, long serie DIN 6537L

01367

VHM

TiAIN

DIN 6537L METALLO DURO
Carbide

Serie lunga - con fori
Long serie - with holes



W 27°



Confezione
Packaging



VHM+TiAIN
Con fori
With holes



<math>< 5d</math>

R ≤ 1200 N/mm²

Applicazioni
Applications



Metalli
Metals

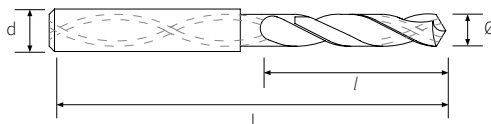


Acciaio
Steel



Titanio e superleghe
titanium and nickel-based super alloys

Ø m7	D h6	l	L	pcs.	cod.	€ cad/each	Ø m7	D h6	l	L	pcs.	cod.	€ cad/each
3	6	28	66	1	013670300	121,708	7,2	8	53	91	1	013670720	144,678
3,1	6	28	66	1	013670310	121,708	7,3	8	53	91	1	013670730	144,678
3,2	6	28	66	1	013670320	121,708	7,4	8	53	91	1	013670740	144,678
3,3	6	28	66	1	013670330	121,708	7,5	8	53	91	1	013670750	144,678
3,4	6	28	66	1	013670340	121,708	7,6	8	53	91	1	013670760	144,678
3,5	6	28	66	1	013670350	121,708	7,7	8	53	91	1	013670770	144,678
3,6	6	28	66	1	013670360	121,708	7,8	8	53	91	1	013670780	144,678
3,7	6	28	66	1	013670370	121,708	7,9	8	53	91	1	013670790	144,678
3,8	6	36	74	1	013670380	121,708	8	8	53	91	1	013670800	144,678
3,9	6	36	74	1	013670390	121,708	8,1	10	61	103	1	013670810	165,822
4	6	36	74	1	013670400	130,975	8,2	10	61	103	1	013670820	165,822
4,1	6	36	74	1	013670410	130,975	8,3	10	61	103	1	013670830	165,822
4,2	6	36	74	1	013670420	130,975	8,4	10	61	103	1	013670840	165,822
4,3	6	36	74	1	013670430	130,975	8,5	10	61	103	1	013670850	165,822
4,4	6	36	74	1	013670440	130,975	8,6	10	61	103	1	013670860	165,822
4,5	6	36	74	1	013670450	130,975	8,7	10	61	103	1	013670870	165,822
4,6	6	36	74	1	013670460	130,975	8,8	10	61	103	1	013670880	165,822
4,7	6	44	82	1	013670470	130,975	8,9	10	61	103	1	013670890	165,822
4,8	6	44	82	1	013670480	130,975	9	10	61	103	1	013670900	165,822
4,9	6	44	82	1	013670490	130,975	9,1	10	61	103	1	013670910	165,822
5	6	44	82	1	013670500	130,975	9,2	10	61	103	1	013670920	165,822
5,1	6	44	82	1	013670510	130,975	9,3	10	61	103	1	013670930	165,822
5,2	6	44	82	1	013670520	130,975	9,4	10	61	103	1	013670940	165,822
5,3	6	44	82	1	013670530	130,975	9,5	10	61	103	1	013670950	165,822
5,4	6	44	82	1	013670540	130,975	9,6	10	61	103	1	013670960	165,822
5,5	6	44	82	1	013670550	130,975	9,7	10	61	103	1	013670970	165,822
5,6	6	44	82	1	013670560	130,975	9,8	10	61	103	1	013670980	165,822
5,7	6	44	82	1	013670570	130,975	10	10	61	103	1	013671000	165,822
5,8	6	44	82	1	013670580	130,975	10,2	12	71	118	1	013671020	242,040
5,9	6	44	82	1	013670590	130,975	10,5	12	71	118	1	013671050	242,040
6	6	44	82	1	013670600	130,975	11	12	71	118	1	013671100	242,040
6,1	8	53	91	1	013670610	144,678	11,5	12	71	118	1	013671150	242,040
6,2	8	53	91	1	013670620	144,678	12	12	71	118	1	013671200	242,040
6,3	8	53	91	1	013670630	144,678	12,5	14	77	124	1	013671250	325,568
6,4	8	53	91	1	013670640	144,678	13	14	77	124	1	013671300	325,568
6,5	8	53	91	1	013670650	144,678	13,5	14	77	124	1	013671350	325,568
6,6	8	53	91	1	013670660	144,678	14	14	77	124	1	013671400	325,568
6,7	8	53	91	1	013670670	144,678	14,5	16	83	133	1	013671450	401,718
6,8	8	53	91	1	013670680	144,678	15	16	83	133	1	013671500	401,718
6,9	8	53	91	1	013670690	144,678	15,5	16	83	133	1	013671550	401,718
7	8	53	91	1	013670700	144,678	16	16	83	133	1	013671600	401,718
7,1	8	53	91	1	013670710	144,678							



Profondità di foratura 5 Ø
Cutting depth 5 Ø

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm², acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm², carbon steels, bronze, cast iron, high alloyed Al-Si alloys.

PUNTE ELICOIDALI CODOLO CONICO MORSE CON TAGLIANTI IN METALLO DURO

Morse taper shank twist drills with carbide tips

01213

HM HSS

DIN 345 FRESATA

Milled

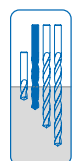
Serie corta

Short serie



W 27°

Carbide tip
HM/K20



<5 d

Confezione
Packaging



$R \leq 1100 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	M.K.	l	L	pcs. QTY	cod.	€ cad/each
10	1	87	168	1	012131000	93,222
10,5	1	87	168	1	012131050	93,222
11	1	94	175	1	012131100	93,222
11,5	1	94	175	1	012131150	97,335
12	1	101	182	1	012131200	97,335
12,5	1	101	182	1	012131250	104,031
13	1	101	182	1	012131300	104,031
13,5	1	108	189	1	012131350	120,515
14	1	108	189	1	012131400	120,515
14,5	2	114	212	1	012131450	123,601
15,5	2	120	218	1	012131550	128,752
16	2	120	218	1	012131600	128,752
16,5	2	125	223	1	012131650	141,113
17	2	125	223	1	012131700	141,113
17,5	2	130	228	1	012131750	141,113
18	2	130	228	1	012131800	141,113
18,5	2	135	233	1	012131850	149,351
20	2	140	238	1	012132000	191,587
21	2	145	243	1	012132100	206,005
21,5	2	150	248	1	012132150	211,157
22	2	150	248	1	012132200	211,157
22,5	2	155	253	1	012132250	216,309
23,5	3	155	276	1	012132350	224,547
24	3	160	281	1	012132400	224,547
24,5	3	160	281	1	012132450	236,906
25	3	160	281	1	012132500	236,906
26,5	3	165	286	1	012132650	306,949
27	3	170	291	1	012132700	306,949
27,5	3	170	291	1	012132750	323,424
28	3	170	291	1	012132800	323,424
28,5	3	175	296	1	012132850	360,507
29,5	3	175	296	1	012132950	388,314
30,5	3	180	301	1	012133050	407,590
31	3	180	301	1	012133100	407,590
31,5	3	180	301	1	012133150	453,300
32	4	185	334	1	012133200	453,300
32,5	4	185	334	1	012133250	459,965
33	4	185	334	1	012133300	459,965
33,5	4	185	334	1	012133350	470,443
34,5	4	190	339	1	012133450	479,965
35	4	190	339	1	012133500	479,965

Taglio di acciai duri con $R \leq 1100 \text{ N/mm}^2$, acciai per molle, ghisa temperata, molibdeno puro, bronzo duro, materie plastiche termoindurenti con azione abrasiva, materie sintetiche con fibre vetrose,...

Cut of hard steels $R \leq 1100 \text{ N/mm}^2$, spring steel, hard cast iron, Mo, hard bronze, abrasive thermosetting plastics, glass fiber reinforced plastics,...

HM/K20

118°

HSS

W 27°

PUNTE ELICOIDALI AL COBALTO 5%
CODOLO CONICO MORSE
Cobalt Morse taper shank twist drills

01150

HSS-CO 5%

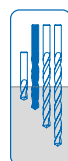
DIN 345 FRESATA

Serie corta
Short serie



W 27°

HV = 800÷860
 AISI M35
 DIN 1412 C



$\leq 5 d$

R \leq 1200 N/mm²

Applicazioni
Applications



Inox
 Stainless



Acciaio
 Steel



Metalli
 Metals



Emulsione
 Lubrificant



Confezione
Packaging




\varnothing h8	M.K.	l	L	 pcs.	cod.	€ cad/each
7	1	69	150	1	011500700	48,431
7,5	1	69	150	1	011500750	48,431
8	1	75	156	1	011500800	48,431
8,5	1	75	156	1	011500850	48,431
9	1	81	162	1	011500900	48,431
9,25	1	81	162	1	011500925	48,431
9,5	1	81	162	1	011500950	48,431
10	1	87	168	1	011501000	48,431
10,25	1	87	168	1	011501025	48,431
10,5	1	87	168	1	011501050	48,431
10,75	1	94	175	1	011501075	48,431
11	1	94	175	1	011501100	48,431
11,25	1	94	175	1	011501125	48,431
11,5	1	94	175	1	011501150	48,431
11,75	1	94	175	1	011501175	48,431
12	1	101	182	1	011501200	48,431
12,25	1	101	182	1	011501225	51,202
12,5	1	101	182	1	011501250	51,202
12,75	1	101	182	1	011501275	51,202
13	1	101	182	1	011501300	51,202
13,25	1	108	189	1	011501325	55,969
13,5	1	108	189	1	011501350	55,969
13,75	1	108	189	1	011501375	59,847
14	1	108	189	1	011501400	59,847
14,25	2	114	212	1	011501425	70,352
14,5	2	114	212	1	011501450	70,352
14,75	2	114	212	1	011501475	71,127
15	2	114	212	1	011501500	71,127
15,25	2	120	218	1	011501525	77,380
15,5	2	120	218	1	011501550	77,380
15,75	2	120	218	1	011501575	77,380
16	2	120	218	1	011501600	77,380
16,25	2	125	223	1	011501625	82,898
16,5	2	125	223	1	011501650	82,898
16,75	2	125	223	1	011501675	82,898
17	2	125	223	1	011501700	82,898
17,25	2	130	228	1	011501725	85,944
17,5	2	130	228	1	011501750	85,944
17,75	2	130	228	1	011501775	85,944
18	2	130	228	1	011501800	85,944
18,25	2	135	233	1	011501825	91,388
18,5	2	135	233	1	011501850	91,388
18,75	2	135	233	1	011501875	91,388
19	2	135	233	1	011501900	91,388
19,25	2	140	238	1	011501925	106,269
19,5	2	140	238	1	011501950	106,269
19,75	2	140	238	1	011501975	106,269
20	2	140	238	1	011502000	106,269
20,25	2	145	243	1	011502025	127,449
20,5	2	145	243	1	011502050	127,449
20,75	2	145	243	1	011502075	130,884
21	2	145	243	1	011502100	130,884
21,25	2	150	248	1	011502125	143,098
21,5	2	150	248	1	011502150	143,098
21,75	2	150	248	1	011502175	143,098
22	2	150	248	1	011502200	143,098
22,25	2	155	248	1	011502225	151,021
22,5	2	155	253	1	011502250	151,021
22,75	2	155	253	1	011502275	164,319
23	2	155	253	1	011502300	164,319
23,25	3	155	276	1	011502325	166,979
23,5	3	155	276	1	011502350	166,979

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non, con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R \leq 1200 N/mm².

Serie corta
Short serie

Ø h8	M.K.	l	L	 pcs.	cod.	€ cad/each
23,75	3	160	281	1	011502375	182,861
24	3	160	281	1	011502400	182,861
24,25	3	160	281	1	011502425	188,147
24,5	3	160	281	1	011502450	188,147
24,75	3	160	281	1	011502475	188,147
25	3	160	281	1	011502500	188,147
25,25	3	165	286	1	011502525	212,018
25,5	3	165	286	1	011502550	212,018
25,75	3	165	286	1	011502575	214,679
26	3	165	286	1	011502600	214,679
26,25	3	165	286	1	011502625	217,283
26,5	3	165	286	1	011502650	217,283
26,75	3	170	291	1	011502675	230,549
27	3	170	291	1	011502700	230,549
27,25	3	170	291	1	011502725	238,485
27,5	3	170	291	1	011502750	238,485
27,75	3	170	291	1	011502775	238,485
28	3	170	291	1	011502800	238,485
28,25	3	175	296	1	011502825	255,142
28,5	3	175	296	1	011502850	255,142
28,75	3	175	296	1	011502875	259,685
29	3	175	296	1	011502900	259,685
29,25	3	175	296	1	011502925	259,685
29,5	3	175	296	1	011502950	259,685
29,75	3	175	296	1	011502975	272,917
30	3	175	296	1	011503000	272,917
30,25	3	180	301	1	011503025	330,919
30,5	3	180	301	1	011503050	330,919
30,75	3	180	301	1	011503075	330,919
31	3	180	301	1	011503100	330,919
31,25	3	180	301	1	011503125	355,793
31,5	3	180	301	1	011503150	355,793
31,75	3	185	306	1	011503175	355,793
32	4	185	334	1	011503200	355,793
32,25	4	185	334	1	011503225	372,978
32,5	4	185	334	1	011503250	372,978
32,75	4	185	334	1	011503275	372,978
33	4	185	334	1	011503300	372,978
33,25	4	185	334	1	011503325	404,876
33,5	4	185	334	1	011503350	404,876
33,75	4	185	334	1	011503375	404,876
34	4	190	339	1	011503400	404,876
34,25	4	190	339	1	011503425	419,598
34,5	4	190	339	1	011503450	419,598
34,75	4	190	339	1	011503475	419,598
35	4	190	339	1	011503500	419,598
35,25	4	190	339	1	011503525	471,120
35,5	4	190	339	1	011503550	471,120
35,75	4	190	339	1	011503575	471,120
36	4	195	344	1	011503600	471,120
36,25	4	195	344	1	011503625	501,791
36,5	4	195	344	1	011503650	501,791
36,75	4	195	344	1	011503675	501,791
37	4	195	344	1	011503700	501,791
37,25	4	195	344	1	011503725	539,825
37,5	4	195	344	1	011503750	539,825
37,75	4	195	344	1	011503775	539,825
38	4	200	349	1	011503800	539,825
38,25	4	200	349	1	011503825	634,303
38,5	4	200	349	1	011503850	634,303
38,75	4	200	349	1	011503875	634,303
39	4	200	349	1	011503900	634,303

Ø h8	M.K.	l	L	 pcs.	cod.	€ cad/each
39,25	4	200	349	1	011503925	634,303
39,5	4	200	349	1	011503950	634,303
39,75	4	200	349	1	011503975	634,303
40	4	200	349	1	011504000	634,303
40,5	4	205	354	1	011504050	660,892
41	4	205	354	1	011504100	729,485
41,5	4	205	354	1	011504150	729,485
42	4	205	354	1	011504200	760,667
42,5	4	205	354	1	011504250	760,667
43	4	210	359	1	011504300	835,430
43,5	4	210	359	1	011504350	835,430
44	4	210	359	1	011504400	854,180
44,5	4	210	359	1	011504450	854,180
45	4	210	359	1	011504500	910,284
45,5	4	215	364	1	011504550	910,284
46	4	215	364	1	011504600	916,534
46,5	4	215	364	1	011504650	916,534
47	4	215	364	1	011504700	972,627
47,5	4	215	364	1	011504750	972,627
48	4	220	369	1	011504800	1.059,890
48,5	4	220	369	1	011504850	1.059,890
49	4	220	369	1	011504900	1.084,823
49,5	4	220	369	1	011504950	1.084,823
50	4	220	369	1	011505000	1.109,744
50,5	4	225	374	1	011505050	1.109,744
51	4	225	412	1	011505100	1.353,442
51,5	5	225	412	1	011505150	1.353,442
52	5	225	412	1	011505200	1.407,992
52,5	5	225	412	1	011505250	1.407,992
53	5	225	412	1	011505300	1.428,785
53,5	5	230	417	1	011505350	1.428,785
54	5	230	417	1	011505400	1.532,689
54,5	5	230	417	1	011505450	1.532,689
55	5	230	417	1	011505500	1.558,665
55,5	5	230	417	1	011505550	1.558,665
56	5	230	417	1	011505600	1.558,665
56,5	5	235	422	1	011505650	1.558,665
57	5	235	422	1	011505700	1.652,190
57,5	5	235	422	1	011505750	1.652,190
58	5	235	422	1	011505800	1.745,715
58,5	5	235	422	1	011505850	1.745,715
59	5	235	422	1	011505900	1.745,715
59,5	5	235	422	1	011505950	1.808,057
60	5	235	422	1	011506000	1.808,057

PUNTE ELICOIDALI CODOLO CONICO MORSE, ESECUZIONE FRESATA

Morse taper shank twist drills

01097

HSS

DIN 345 FRESATA

Milled

Serie corta

Short serie



W 27°



HV = 820



$\leq d$

$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Taglio dei materiali con $R \leq 800 \text{ N/mm}^2$ quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to $R \leq 800 \text{ N/mm}^2$.


Confezione
Packaging



Ø	h8	M.K.	L	d	pcs.	cod.	€ cad/each	Ø	h8	M.K.	L	d	pcs.	cod.	€ cad/each
5	1	52	133	1	010970500	16,625	21	2	145	243	1	010972100	44,410		
5,5	1	57	138	1	010970550	22,222	21,25	2	150	248	1	010972125	48,835		
6	1	57	138	1	010970600	16,625	21,5	2	150	248	1	010972150	44,410		
6,25	1	63	144	1	010970625	18,299	21,75	2	150	248	1	010972175	50,124		
6,5	1	63	144	1	010970650	16,625	22	2	150	248	1	010972200	45,566		
6,75	1	69	150	1	010970675	18,299	22,25	2	155	248	1	010972225	50,124		
7	1	69	150	1	010970700	16,625	22,5	2	155	253	1	010972250	45,566		
7,25	1	69	150	1	010970725	18,299	22,75	2	155	253	1	010972275	55,268		
7,5	1	69	150	1	010970750	16,625	23	2	155	253	1	010972300	50,231		
7,75	1	75	156	1	010970775	18,299	23,25	3	155	276	1	010972325	67,985		
8	1	75	156	1	010970800	16,625	23,5	3	155	276	1	010972350	61,806		
8,25	1	75	156	1	010970825	18,299	23,75	3	160	281	1	010972375	67,985		
8,5	1	75	156	1	010970850	16,625	24	3	160	281	1	010972400	61,806		
8,75	1	81	162	1	010970875	18,299	24,25	3	160	281	1	010972425	67,985		
9	1	81	162	1	010970900	16,625	24,5	3	160	281	1	010972450	61,806		
9,25	1	81	162	1	010970925	18,299	24,75	3	160	281	1	010972475	69,406		
9,5	1	81	162	1	010970950	16,625	25	3	160	281	1	010972500	63,095		
9,75	1	87	168	1	010970975	18,299	25,25	3	165	286	1	010972525	69,406		
10	1	87	168	1	010971000	16,625	25,5	3	165	286	1	010972550	63,095		
10,25	1	87	168	1	010971025	20,052	25,75	3	165	286	1	010972575	86,162		
10,5	1	87	168	1	010971050	18,220	26	3	165	286	1	010972600	78,337		
10,75	1	94	175	1	010971075	20,052	26,25	3	165	286	1	010972625	86,162		
11	1	94	175	1	010971100	18,220	26,5	3	165	286	1	010972650	78,337		
11,25	1	94	175	1	010971125	20,052	26,75	3	170	291	1	010972675	89,618		
11,5	1	94	175	1	010971150	18,220	27	3	170	291	1	010972700	81,472		
11,75	1	94	175	1	010971175	21,688	27,25	3	170	291	1	010972725	89,618		
12	1	101	182	1	010971200	19,719	27,5	3	170	291	1	010972750	81,472		
12,25	1	101	182	1	010971225	21,688	27,75	3	170	291	1	010972775	93,193		
12,5	1	101	182	1	010971250	19,719	28	3	170	291	1	010972800	84,729		
12,75	1	101	182	1	010971275	23,906	28,25	3	175	296	1	010972825	93,193		
13	1	101	182	1	010971300	21,727	28,5	3	175	296	1	010972850	84,729		
13,25	1	108	189	1	010971325	23,906	28,75	3	175	296	1	010972875	107,185		
13,5	1	108	189	1	010971350	21,727	29	3	175	296	1	010972900	97,446		
13,75	1	108	189	1	010971375	27,018	29,25	3	175	296	1	010972925	107,185		
14	1	108	189	1	010971400	24,571	29,5	3	175	296	1	010972950	97,446		
14,25	2	114	212	1	010971425	27,018	29,75	3	175	296	1	010972975	110,415		
14,5	2	114	212	1	010971450	24,571	30	3	175	296	1	010973000	100,381		
14,5	2	192	212	1	010971450C192	39,000	30,25	3	180	301	1	010973025	110,415		
14,75	2	114	212	1	010971475	27,018	30,5	3	180	301	1	010973050	100,381		
15	2	114	212	1	010971500	24,571	30,75	3	180	301	1	010973075	123,664		
15,25	2	120	218	1	010971525	27,018	31	3	180	301	1	010973100	112,421		
15,5	2	120	218	1	010971550	24,571	31,25	3	180	301	1	010973125	130,082		
15,75	2	120	218	1	010971575	30,671	31,5	3	180	301	1	010973150	118,241		
16	2	120	218	1	010971600	27,878	31,75	3	185	306	1	010973175	132,673		
16,25	2	125	223	1	010971625	33,061	32	4	185	334	1	010973200	120,620		
16,5	2	125	223	1	010971650	30,045	32,25	4	185	334	1	010973225	132,673		
16,75	2	125	223	1	010971675	35,375	32,5	4	185	334	1	010973250	120,620		
17	2	125	223	1	010971700	32,157	32,75	4	185	334	1	010973275	132,673		
17,25	2	130	228	1	010971725	37,156	33	4	185	334	1	010973300	120,620		
17,5	2	130	228	1	010971750	33,779	33,25	4	185	334	1	010973325	153,788		
17,75	2	130	228	1	010971775	39,016	33,5	4	185	334	1	010973350	139,663		
18	2	130	228	1	010971800	35,455	33,75	4	185	334	1	010973375	158,106		
18,25	2	135	233	1	010971825	39,016	34	4	190	339	1	010973400	142,454		
18,5	2	135	233	1	010971850	35,455	34,25	4	190	339	1	010973425	168,167		
18,75	2	135	233	1	010971875	43,016	34,5	4	190	339	1	010973450	153,788		
19	2	135	233	1	010971900	39,107	34,75	4	190	339	1	010973475	176,791		
19,25	2	140	238	1	010971925	44,265	35	4	190	339	1	010973500	160,976		
19,5	2	140	238	1	010971950	40,251	35,25	4	190	339	1	010973525	176,791		
19,75	2	140	238	1	010971975	45,606	35,5	4	190	339	1	010973550	160,976		
20	2	140	238	1	010972000	41,461	35,75	4	190	339	1	010973575	204,100		
20,25	2	145	243	1	010972025	45,606	36	4	195	344	1	010973600	185,416		
20,5	2	145	243	1	010972050	41,461	36,25	4	195	344	1	010973625	204,100		
20,75	2	145	243	1	010972075	48,835	36,5	4	195	344	1	010973650	185,416		

Serie corta
Short serie

Ø						€
h8	M.K.	L	d	pcs.	cod.	cad/each
36,75	4	195	344	1	010973675	204,100
37	4	195	344	1	010973700	185,416
37,25	4	195	344	1	010973725	204,100
37,5	4	195	344	1	010973750	185,416
37,75	4	195	344	1	010973775	226,647
38	4	200	349	1	010973800	205,921
38,25	4	200	349	1	010973825	226,647
38,5	4	200	349	1	010973850	205,921
38,75	4	200	349	1	010973875	226,647
39	4	200	349	1	010973900	205,921
39,25	4	200	349	1	010973925	226,647
39,5	4	200	349	1	010973950	205,921
39,75	4	200	349	1	010973975	226,647
40	4	200	349	1	010974000	205,921
40,5	4	205	354	1	010974050	247,383
41	4	205	354	1	010974100	247,383
41,5	4	205	354	1	010974150	254,283
42	4	205	354	1	010974200	254,283
42,5	4	205	354	1	010974250	254,283
43	4	210	359	1	010974300	254,283
43,5	4	210	359	1	010974350	254,283
44	4	210	359	1	010974400	265,349
44,5	4	210	359	1	010974450	265,349
45	4	210	359	1	010974500	277,780
45,5	4	215	364	1	010974550	277,780
46	4	215	364	1	010974600	277,780
46,5	4	215	364	1	010974650	277,780
47	4	215	364	1	010974700	306,813
47,5	4	215	364	1	010974750	306,813
48	4	220	369	1	010974800	306,813
48,5	4	220	369	1	010974850	337,210
49	4	220	369	1	010974900	337,210
49,5	4	220	369	1	010974950	348,263
50	4	220	369	1	010975000	348,263
50,5	4	225	374	1	010975050	415,983
51	5	225	412	1	010975100	415,983
52	5	225	412	1	010975200	415,983
52,5	5	225	412	1	010975250	415,983
53	5	225	412	1	010975300	415,983
53,5	5	230	417	1	010975350	507,201
54	5	230	417	1	010975400	507,201
54,5	5	230	417	1	010975450	507,201
55	5	230	417	1	010975500	507,201
55,5	5	230	417	1	010975550	507,201
56	5	230	417	1	010975600	583,214
56,5	5	235	422	1	010975650	583,214
57	5	235	422	1	010975700	583,214
57,5	5	235	422	1	010975750	583,214
58	5	235	422	1	010975800	583,214
58,5	5	235	422	1	010975850	583,214
59	5	235	422	1	010975900	583,214
59,5	5	235	422	1	010975950	583,214
60	5	235	422	1	010976000	583,214
61	5	240	427	1	010976100	769,777
62	5	240	427	1	010976200	769,777
63	5	240	427	1	010976300	769,777
64	5	245	432	1	010976400	769,777
65	5	245	432	1	010976500	769,777
66	5	245	432	1	010976600	978,459
67	5	245	432	1	010976700	978,459
68	5	250	437	1	010976800	978,459
69	5	250	437	1	010976900	978,459
70	5	250	437	1	010977000	1.121,848

Ø						€
h8	M.K.	L	d	pcs.	cod.	cad/each
71	5	250	437	1	010977100	1.162,957
72	5	255	442	1	010977200	1.222,874
73	5	255	442	1	010977300	1.268,688
74	5	255	442	1	010977400	1.342,693
75	5	255	442	1	010977500	1.367,358
76	5	260	447	1	010977600	1.487,185
77	6	260	514	1	010977700	1.534,169
78	6	260	514	1	010977800	1.582,337
79	6	260	514	1	010977900	1.653,986
80	6	260	514	1	010978000	1.702,153
81	6	265	519	1	010978100	1.798,479
82	6	265	519	1	010978200	1.821,971
83	6	265	519	1	010978300	1.893,630
84	6	265	519	1	010978400	1.893,630
85	6	265	519	1	010978500	1.918,295
86	6	270	524	1	010978600	1.966,464
87	6	270	524	1	010978700	1.989,954
88	6	270	524	1	010978800	2.038,123
89	6	270	524	1	010978900	2.086,279
90	6	270	524	1	010979000	2.086,279
91	6	275	529	1	010979100	2.253,092
92	6	275	529	1	010979200	2.349,416
93	6	275	529	1	010979300	2.372,909
94	6	275	529	1	010979400	2.372,909
95	6	275	529	1	010979500	2.421,076
96	6	280	534	1	010979600	2.490,380
97	6	280	534	1	010979700	2.540,892
98	6	280	534	1	010979800	2.589,060
99	6	280	534	1	010979900	2.777,008
100	6	280	534	1	0109710000	4.647,696

PUNTE ELICOIDALI CODOLO CONICO MORSE, SERIE LUNGA, ESECUZIONE FRESATA

Morse taper shank twist drills, long serie

01028

HSS

DIN 341 FRESATA

Milled

Serie lunga

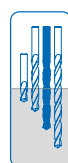
Long serie



W 27°



HV=820



<8 d



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	M.K.	l	d	pcs.	cod.	€ cad/each	Ø h8	M.K.	l	d	pcs.	cod.	€ cad/each
8	1	100	181	1	010280800	30,589	24,5	3	206	327	1	010282450	139,680
8,5	1	100	181	1	010280850	31,541	25	3	206	327	1	010282500	148,033
9	1	107	188	1	010280900	35,029	25,5	3	214	335	1	010282550	154,458
9,5	1	107	188	1	010280950	35,029	26	3	214	335	1	010282600	154,458
10	1	116	197	1	010281000	35,523	26,5	3	214	335	1	010282650	171,015
10,25	1	116	197	1	010281025	37,335	27	3	222	343	1	010282700	171,015
10,5	1	116	197	1	010281050	37,335	27,5	3	222	343	1	010282750	186,395
11	1	125	206	1	010281100	38,883	28	3	222	343	1	010282800	186,395
11,5	1	125	206	1	010281150	41,832	28,5	3	230	351	1	010282850	201,793
12	1	134	215	1	010281200	43,771	29	3	230	351	1	010282900	201,793
12,25	1	134	215	1	010281225	45,689	29,5	3	230	351	1	010282950	212,045
12,5	1	134	215	1	010281250	45,689	30	3	230	351	1	010283000	212,045
13	1	134	215	1	010281300	45,689	31	3	239	360	1	010283100	239,411
13,25	1	142	223	1	010281325	49,542	32	4	248	397	1	010283200	262,561
13,5	1	142	223	1	010281350	49,542	33	4	248	397	1	010283300	294,750
14	1	142	223	1	010281400	52,594	34	4	257	406	1	010283400	315,073
14,5	2	147	245	1	010281450	55,487	35	4	257	406	1	010283500	321,856
15	2	147	245	1	010281500	61,143	35,5	4	267	416	1	010283550	347,810
15,5	2	153	251	1	010281550	63,575	36	4	267	416	1	010283600	348,958
16	2	153	251	1	010281600	63,575	36,5	4	267	416	1	010283650	350,187
16,5	2	159	257	1	010281650	67,328	37	4	267	416	1	010283700	350,084
17	2	159	257	1	010281700	67,328	37,5	4	267	416	1	010283750	368,948
17,5	2	165	263	1	010281750	71,067	38	4	277	426	1	010283800	367,833
18	2	165	263	1	010281800	76,070	39	4	277	426	1	010283900	400,098
18,5	2	171	269	1	010281850	79,168	40	4	277	426	1	010284000	413,006
19	2	171	269	1	010281900	79,168	41	4	287	436	1	010284100	450,110
19,5	2	177	275	1	010281950	82,645	42	4	287	436	1	010284200	474,308
20	2	177	275	1	010282000	82,645	43	4	298	447	1	010284300	524,322
20,5	2	184	282	1	010282050	96,034	44	4	298	447	1	010284400	535,613
21	2	184	282	1	010282100	96,034	45	4	298	447	1	010284500	574,336
21,5	2	191	289	1	010282150	104,788	46	4	310	459	1	010284600	587,231
22	2	191	289	1	010282200	104,788	47	4	310	459	1	010284700	611,429
22,5	2	198	296	1	010282250	110,962	48	4	321	470	1	010284800	663,061
23	2	198	296	1	010282300	119,716	49	4	321	470	1	010284900	679,194
23,5	3	198	319	1	010282350	123,582	50	4	321	470	1	010285000	687,259
24	3	206	327	1	010282400	134,516							

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

PUNTE ELICOIDALI CODOLO CONICO MORSE CON FORI DI LUBROREFRIGERAZIONE

Morse taper shank twist drills with internal coolant

01069

HSS

DIN 341 FRESATA
Milled

Serie lunga - con fori
Long serie - with holes



118°

W 27°



AISI M2
HV = 820



$<10 d$



Confezione
Packaging



Ø h8	M.K.	l	d	pcs.	cod.	€ cad/each
10	2	116	233	1	010691000	278,704
11	2	125	242	1	010691100	307,136
12	2	134	251	1	010691200	298,429
13	2	134	251	1	010691300	295,216
14	2	142	259	1	010691400	309,846
15	2	147	264	1	010691500	359,271
16	2	153	270	1	010691600	367,328
17	2	159	276	1	010691700	377,000
18	2	165	282	1	010691800	386,203
19	3	171	307	1	010691900	536,191
20	3	177	313	1	010692000	544,697
21	3	184	320	1	010692100	558,753
22	3	191	327	1	010692200	551,180
23	3	198	334	1	010692300	650,087
24	3	206	342	1	010692400	646,200
25	3	206	342	1	010692500	695,783
26	3	214	335	1	010692600	695,783
27	3	222	343	1	010692700	842,046
28	3	222	343	1	010692800	837,221
29	3	230	351	1	010692900	915,021
30	3	230	351	1	010693000	886,858
32	4	248	397	1	010693200	986,024

$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel

Taglio dei materiali con $R \leq 800 \text{ N/mm}^2$ quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to $R \leq 800 \text{ N/mm}^2$.

PUNTE ELICOIDALI CODOLO CONICO MORSE, SERIE EXTRA LUNGA, ESECUZIONE FRESATA

Morse taper shank twist drills, extra long serie

01088

HSS

DIN 1870/1 FRESATA
Milled

Serie extra lunga
Extra long serie



W 27°



HV=820



$R \le 10 \mu m$



Confezione
Packaging



$R \le 800 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

\emptyset	h8	M.K.	l	d	pcs.	cod.	€ cad/each	\emptyset	h8	M.K.	l	d	pcs.	cod.	€ cad/each
8	1	165	265	1	1	010880800	87,136	24,5	3	290	440	1	1	010882450	405,541
8,5	1	165	265	1	1	010880850	97,668	25	3	290	440	1	1	010882500	368,367
9	1	175	275	1	1	010880900	97,668	25,5	3	290	440	1	1	010882550	439,336
9,5	1	175	275	1	1	010880950	105,327	26	3	290	440	1	1	010882600	395,403
10	1	185	285	1	1	010881000	105,327	26,5	3	290	440	1	1	010882650	466,372
10,5	1	185	285	1	1	010881050	120,650	27	3	305	460	1	1	010882700	408,920
11	1	195	300	1	1	010881100	120,650	27,5	3	305	460	1	1	010882750	483,270
11,5	1	195	300	1	1	010881150	132,139	28	3	305	460	1	1	010882800	439,336
12	1	205	310	1	1	010881200	126,393	28,5	3	305	460	1	1	010882850	517,065
12,5	1	205	310	1	1	010881250	128,308	29	3	305	460	1	1	010882900	466,372
13	1	205	310	1	1	010881300	126,393	29,5	3	305	460	1	1	010882950	540,721
13,5	1	220	325	1	1	010881350	141,715	30	3	305	460	1	1	010883000	479,891
14	1	220	325	1	1	010881400	141,715	31	3	320	480	1	1	010883100	581,276
14,5	2	220	340	1	1	010881450	158,950	32	4	320	505	1	1	010883200	594,794
15	2	220	340	1	1	010881500	168,524	33	4	320	505	1	1	010883300	621,830
15,5	2	230	355	1	1	010881550	173,663	34	4	340	530	1	1	010883400	672,523
16	2	230	355	1	1	010881600	168,119	35	4	340	530	1	1	010883500	682,661
16,5	2	230	355	1	1	010881650	169,966	36	4	340	530	1	1	010883600	726,594
17	2	230	355	1	1	010881700	188,441	37	4	340	530	1	1	010883700	733,352
17,5	2	245	370	1	1	010881750	206,916	38	4	360	555	1	1	010883800	777,286
18	2	245	370	1	1	010881800	203,221	39	4	360	555	1	1	010883900	817,841
18,5	2	245	370	1	1	010881850	205,069	40	4	360	555	1	1	010884000	821,220
19	2	245	370	1	1	010881900	205,069	41	4	360	555	1	1	010884100	878,672
19,5	2	260	385	1	1	010881950	229,086	42	4	360	555	1	1	010884200	895,570
20	2	260	385	1	1	010882000	223,542	43	4	385	585	1	1	010884300	980,056
20,5	2	260	385	1	1	010882050	272,050	44	4	385	585	1	1	010884400	980,056
21	2	260	385	1	1	010882100	251,774	45	4	385	585	1	1	010884500	1.030,749
21,5	2	270	405	1	1	010882150	295,707	46	4	385	585	1	1	010884600	1.081,442
22	2	270	405	1	1	010882200	266,981	47	4	385	585	1	1	010884700	1.132,134
22,5	2	270	405	1	1	010882250	322,743	48	4	405	605	1	1	010884800	1.233,520
23	2	270	405	1	1	010882300	305,845	49	4	405	605	1	1	010884900	1.284,212
23,5	3	270	425	1	1	010882350	381,884	50	4	405	605	1	1	010885000	1.267,314
24	3	290	440	1	1	010882400	348,090								

Taglio dei materiali con $R \le 800 \text{ N/mm}^2$ quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to $R \le 800 \text{ N/mm}^2$.

W 27°

118°

HSS

PUNTE ELICOIDALI CODOLO CONICO MORSE, ESECUZIONE RULLATA

Morse taper shank twist drills

01025

HSS-R

DIN 345 ESECUZIONE RULLATA

Rolled

Serie corta

Short serie



W 27°



HV = 750÷820



<5 d

R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Confezione
Packaging





Ø	M.K.	l	L	pcs.	cod.	€ cad/each	Ø	M.K.	l	L	pcs.	cod.	€ cad/each
5	1	52	133	1	010250500	10,510	21,5	2	150	248	1	010252150	30,706
6	1	57	138	1	010250600	10,510	21,75	2	150	248	1	010252175	35,449
6,25	1	63	144	1	010250625	10,510	22	2	150	248	1	010252200	30,706
6,5	1	63	144	1	010250650	10,510	22,25	2	150	248	1	010252225	40,077
6,75	1	69	150	1	010250675	10,510	22,5	2	155	253	1	010252250	34,657
7	1	69	150	1	010250700	10,510	22,75	2	155	253	1	010252275	40,077
7,25	1	69	150	1	010250725	10,510	23	2	155	253	1	010252300	34,657
7,5	1	69	150	1	010250750	10,510	23,25	3	155	276	1	010252325	45,487
7,75	1	75	156	1	010250775	10,510	23,5	3	155	276	1	010252350	41,732
8	1	75	156	1	010250800	10,510	23,75	3	160	281	1	010252375	45,487
8,25	1	75	156	1	010250825	10,414	24	3	160	281	1	010252400	41,732
8,5	1	75	156	1	010250850	10,414	24,25	3	160	281	1	010252425	48,235
8,75	1	81	162	1	010250875	10,414	24,5	3	160	281	1	010252450	43,400
9	1	81	162	1	010250900	10,414	24,75	3	160	281	1	010252475	48,235
9,25	1	81	162	1	010250925	10,414	25	3	160	281	1	010252500	43,400
9,5	1	81	162	1	010250950	10,414	25,25	3	165	286	1	010252525	47,910
9,75	1	87	168	1	010250975	10,414	25,5	3	165	286	1	010252550	47,910
10	1	87	168	1	010251000	10,414	25,75	3	165	286	1	010252575	58,050
10,25	1	87	168	1	010251025	10,829	26	3	165	286	1	010252600	52,784
10,5	1	87	168	1	010251050	10,829	26,25	3	165	286	1	010252625	59,782
10,75	1	94	175	1	010251075	10,829	26,5	3	165	286	1	010252650	54,361
11	1	94	175	1	010251100	10,829	26,75	3	170	291	1	010252675	55,259
11,25	1	94	175	1	010251125	11,586	27	3	170	291	1	010252700	55,259
11,5	1	94	175	1	010251150	11,586	27,25	3	170	291	1	010252725	64,109
11,75	1	94	175	1	010251175	11,586	27,5	3	170	291	1	010252750	58,284
12	1	101	182	1	010251200	11,586	27,75	3	170	291	1	010252775	64,109
12,25	1	101	182	1	010251225	12,042	28	3	170	291	1	010252800	58,284
12,5	1	101	182	1	010251250	12,042	28,25	3	175	296	1	010252825	69,063
12,75	1	101	182	1	010251275	12,317	28,5	3	175	296	1	010252850	62,741
13	1	101	182	1	010251300	12,317	28,75	3	175	296	1	010252875	73,076
13,25	1	108	189	1	010251325	17,451	29	3	175	296	1	010252900	66,442
13,5	1	108	189	1	010251350	14,806	29,25	3	175	296	1	010252925	75,318
13,75	1	108	189	1	010251375	17,451	29,5	3	175	296	1	010252950	68,463
14	1	108	189	1	010251400	14,806	29,75	3	175	296	1	010252975	75,318
14,25	2	114	212	1	010251425	18,833	30	3	175	296	1	010253000	68,463
14,5	2	114	212	1	010251450	16,004	30,25	3	180	301	1	010253025	86,266
14,75	2	114	212	1	010251475	20,580	30,5	3	180	301	1	010253050	82,146
15	2	114	212	1	010251500	17,451	30,75	3	180	301	1	010253075	86,266
15,25	2	120	218	1	010251525	20,840	31	3	180	301	1	010253100	82,146
15,5	2	120	218	1	010251550	17,752	31,25	3	180	301	1	010253125	92,732
15,75	2	120	218	1	010251575	20,840	31,5	3	180	301	1	010253150	88,312
16	2	120	218	1	010251600	17,752	31,75	3	185	306	1	010253175	112,214
16,25	2	125	223	1	010251625	23,538	32	4	185	334	1	010253200	112,214
16,5	2	125	223	1	010251650	19,967	32,25	4	185	334	1	010253225	115,595
16,75	2	125	223	1	010251675	23,538	32,5	4	185	334	1	010253250	115,595
17	2	125	223	1	010251700	19,967	32,75	4	185	334	1	010253275	118,444
17,25	2	130	228	1	010251725	25,454	33	4	185	334	1	010253300	118,444
17,5	2	130	228	1	010251750	21,584	33,25	4	185	334	1	010253325	123,175
17,75	2	130	228	1	010251775	25,454	33,5	4	185	334	1	010253350	123,175
18	2	130	228	1	010251800	21,584	33,75	4	185	334	1	010253375	129,340
18,25	2	135	233	1	010251825	26,822	34	4	190	339	1	010253400	129,340
18,5	2	135	233	1	010251850	22,690	34,25	4	190	339	1	010253425	133,224
18,75	2	135	233	1	010251875	26,822	34,5	4	190	339	1	010253450	133,224
19	2	135	233	1	010251900	22,690	34,75	4	190	339	1	010253475	139,558
19,25	2	140	238	1	010251925	27,824	35	4	190	339	1	010253500	139,558
19,5	2	140	238	1	010251950	23,615	35,25	4	190	339	1	010253525	143,779
19,75	2	140	238	1	010251975	27,824	35,5	4	190	339	1	010253550	143,779
20	2	140	238	1	010252000	24,241	35,75	4	190	339	1	010253575	162,103
20,25	2	145	243	1	010252025	33,835	36	4	195	344	1	010253600	162,103
20,5	2	145	243	1	010252050	29,193	36,25	4	195	344	1	010253625	164,932
20,75	2	145	243	1	010252075	33,835	36,5	4	195	344	1	010253650	164,932
21	2	145	243	1	010252100	30,066	36,75	4	195	344	1	010253675	164,932
21,25	2	150	248	1	010252125	35,449	37	4	195	344	1	010253700	164,932

Taglio dei materiali con R ≤ 650 N/mm²
quali acciai legati, ghise tutti i metalli
in genere, la grafite.
Precisione di foratura e costanza di
rendimenti elevati.

High precision and high performances
in cutting alloy steel up to
R ≤ 650 N/mm².

Serie corta
Short serie

Ø	M.K.	l	L	 pcs.	cod.	€ cad/each
37,25	4	195	344	1	010253725	167,748
37,5	4	195	344	1	010253750	167,748
37,75	4	195	344	1	010253775	181,851
38	4	200	349	1	010253800	181,851
38,25	4	200	349	1	010253825	184,663
38,5	4	200	349	1	010253850	184,663
38,75	4	200	349	1	010253875	184,663
39	4	200	349	1	010253900	184,663
39,25	4	200	349	1	010253925	188,888
39,5	4	200	349	1	010253950	188,888
39,75	4	200	349	1	010253975	188,888
40	4	200	349	1	010254000	188,888
40,25	4	205	354	1	010254025	225,549
40,5	4	205	354	1	010254050	225,549
40,75	4	205	354	1	010254075	225,549
41	4	205	354	1	010254100	225,549
41,25	4	205	354	1	010254125	232,587
41,5	4	205	354	1	010254150	232,587
41,75	4	205	354	1	010254175	232,587
42	4	205	354	1	010254200	232,587
42,25	4	205	354	1	010254225	235,415
42,5	4	205	354	1	010254250	235,415
42,75	4	205	354	1	010254275	235,415
43	4	210	359	1	010254300	235,415
43,25	4	210	359	1	010254325	239,637
43,5	4	210	359	1	010254350	239,637
43,75	4	210	359	1	010254375	239,637
44	4	210	359	1	010254400	239,637
44,25	4	210	359	1	010254425	248,097
44,5	4	210	359	1	010254450	248,097
44,75	4	210	359	1	010254475	248,097
45	4	210	359	1	010254500	248,097
45,25	4	215	364	1	010254525	253,739
45,5	4	215	364	1	010254550	253,739
45,75	4	215	364	1	010254575	253,739
46	4	215	364	1	010254600	253,739
46,25	4	215	364	1	010254625	287,573
46,5	4	215	364	1	010254650	287,573
46,75	4	215	364	1	010254675	287,573
47	4	215	364	1	010254700	287,573
47,25	4	215	364	1	010254725	294,610
47,5	4	215	364	1	010254750	294,610
47,75	4	215	364	1	010254775	294,610
48	4	220	369	1	010254800	294,610
48,25	4	220	369	1	010254825	307,306
48,5	4	220	369	1	010254850	307,306
48,75	4	220	369	1	010254875	307,306
49	4	220	369	1	010254900	307,306
49,25	4	220	369	1	010254925	314,357
49,5	4	220	369	1	010254950	314,357
49,75	4	220	369	1	010254975	314,357
50	4	220	369	1	010255000	314,357
50,5	4	225	374	1	010255050	380,602
51	5	225	412	1	010255100	380,602
52	5	225	412	1	010255200	407,385
53	5	225	412	1	010255300	413,029
54	5	230	417	1	010255400	441,220
55	5	230	417	1	010255500	449,678
56	5	230	417	1	010255600	503,244
57	5	235	422	1	010255700	503,244
58	5	235	422	1	010255800	510,294
59	5	235	422	1	010255900	510,294
60	5	235	422	1	010256000	521,569

Ø	M.K.	l	L	 pcs.	cod.	€ cad/each
61	5	240	427	1	010256100	708,970
62	5	240	427	1	010256200	750,989
63	5	240	427	1	010256300	750,989
64	5	245	432	1	010256400	750,989
65	5	245	432	1	010256500	750,989
66	5	245	432	1	010256600	945,291
67	5	245	432	1	010256700	945,291
68	5	250	437	1	010256800	945,291
69	5	250	437	1	010256900	945,291
70	5	250	437	1	010257000	1.107,933
71	5	250	437	1	010257100	1.148,062
72	5	255	442	1	010257200	1.194,276
73	5	255	442	1	010257300	1.240,490
74	5	255	442	1	010257400	1.311,035
75	5	255	442	1	010257500	1.335,356
76	6	260	447	1	010257600	1.452,104
77	6	260	514	1	010257700	1.498,319
78	6	260	514	1	010257800	1.545,745
79	6	260	514	1	010257900	1.616,291
80	6	260	514	1	010258000	1.662,505
81	6	265	519	1	010258100	1.756,147
82	6	265	519	1	010258200	1.779,253
83	6	265	519	1	010258300	1.849,789
84	6	265	519	1	010258400	1.849,789
85	6	265	519	1	010258500	1.872,893
86	6	270	524	1	010258600	1.920,334
87	6	270	524	1	010258700	1.943,442
88	6	270	524	1	010258800	1.990,868
89	6	270	524	1	010258900	2.037,082
90	6	270	524	1	010259000	2.037,082
91	6	275	529	1	010259100	2.201,270
92	6	275	529	1	010259200	2.294,910
93	6	275	529	1	010259300	2.318,018
94	6	275	529	1	010259400	2.318,018
95	6	275	529	1	010259500	2.365,446
96	6	280	534	1	010259600	2.432,337
97	6	280	534	1	010259700	2.482,204
98	6	280	534	1	010259800	2.528,418
99	6	280	534	1	010259900	2.713,271
100	6	280	534	1	0102510000	4.472,822





UTENSILI CONICI E A GRADINO

CONICAL AND STEP DRILL BITS

UTENSILI CONICI INTEGRALI IN HSS-G CON SCALATURA ELICOIDALE E SPOGLIA MULTIPLA PER FORARE E ALLARGARE LAMIERE E TUBI

Conical drill bits with spiral flute and multiple clearance for metal sheets and tubes

01182

HSS-G

INTERAMENTE RETTIFICATA

Fully ground



AISI M2
HV:820

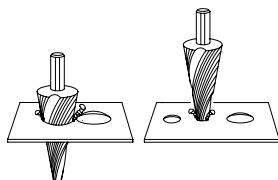
Gambo antidrucciolo
Spoglia multipla
High grip shank
Multiple clearance



Confezione
Packaging



Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
1	3 ÷ 14	6	35	60	0118201	31,186
2	6 ÷ 20	8	45	70	0118202	46,885
3	5 ÷ 31	10	80	105	0118203	100,811



Art. 01182100
€ 182,535

Composizione
Description

Gr.1 3÷14 mm
Gr.2 6÷20 mm
Gr.3 5÷31 mm

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



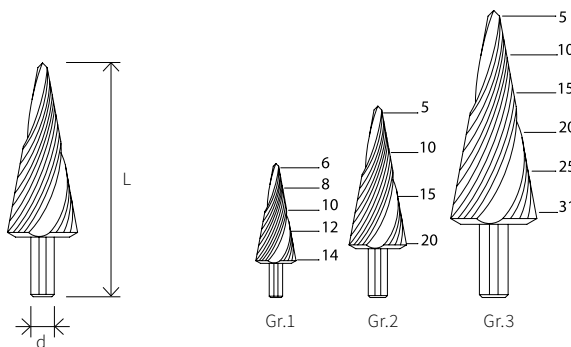
Alluminio
Aluminum



Plastica
Plastic

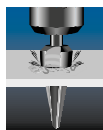


Emulsione
Lubrificant



Grande capacità di taglio, grande rendimento grazie alla nuova scanalatura a spirale e alla spoglia multipla. Usare una leggera pressione durante il taglio: l'elicoide è autoalimentante.

Better cutting performances due to the new spiral flute and multiple clearance. Please use a very soft press when drilling: the tool proceeds by itself.



Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore

For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexiglass up to 5 mm thickness

FRESA CONICA ALLARGAFORI PER LAMIERE, SPECIALE PER MECCANICI, ELETTRAUTO, CARROZZIERI

Conical drill bits for metal sheets

01176

INTERAMENTE RETTIFICATA
Fully ground



R ≤ 800 N/mm²

Applicazioni

Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



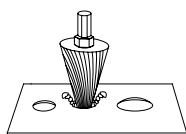
Plastica
Plastic



Emulsione
Lubricant

HSS			€
Øxl	d	cod.	cad/each
25 x 40	10	0117601	28,554
32 x 50	10	0117603	53,588
45 x 60	12	0117604	88,138

C.V.			€
Øxl	d	cod.	cad/each
25 x 40	10	0117602	24,121



La fresa allargafori va usata con velocità massima di 420 giri/min per allargare fori in lamiere di materiali dolci con spessore inferiore a 0,5 mm.

The conical drill bit should work at max 420 rpm to enlarge holes inside mild steel sheet 0,5 mm thick.



Art. 01177 Self
Disponibile su richiesta
On demand



Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore

For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexiglass up to 5 mm thickness

UTENSILI CONICI PER FORARE ED ALLARGARE LAMIERE E TUBI

Conical drill bits for metal sheets and tubes

01206

HSS-G

TiAlN



HSS-G+TiAlN
HV 0,05 = 3300

Gambo antidrucciolo
High grip shank

Uso intensivo
Intensive use



Confezione
Packaging



Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
1	3 ÷ 14	6	21	58	0120601	37,927
2	6 ÷ 20	8	21	70	0120602	64,445
3	16 ÷ 30,5	10	25	79	0120603	122,261
4	26 ÷ 40	10	25	86	0120604	249,324
5	36 ÷ 50	13	25	90	0120605	352,414
6	40 ÷ 61	13	25	97	0120606	565,784
7	3 ÷ 31	10	21	109	0120607	180,999
8	3 ÷ 22,5	8	21	85	0120608	100,270

R ≤ 1400 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



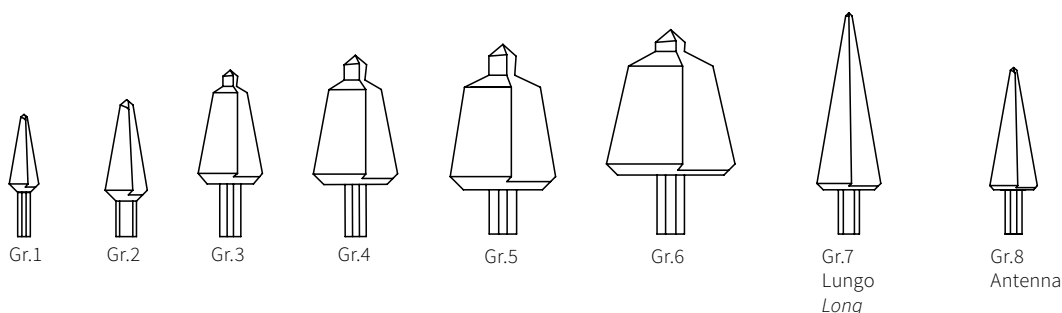
Alluminio
Aluminum



Emulsione
Lubrificant



Plastica
Plastic



01200

HSS-G

TiN



HSS-G+TiN
HV 0,05 = 2300

Gambo antidrucciolo
High grip shank

Uso intensivo
Intensive use



Confezione
Packaging



Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
1	3 ÷ 14	6	21	58	0120001	32,856
2	6 ÷ 20	8	21	70	0120002	55,810
3	16 ÷ 30,5	10	25	79	0120003	103,055
4	26 ÷ 40	10	25	86	0120004	219,615
5	36 ÷ 50	13	25	90	0120005	315,308
6	40 ÷ 61	13	25	97	0120006	512,839
7	3 ÷ 31	10	21	109	0120007	164,997
8	3 ÷ 22,5	8	21	85	0120008	88,841

R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Plastica
Plastic



Emulsione
Lubrificant

UTENSILI CONICI PER FORARE ED ALLARGARE LAMIERE E TUBI

Conical drill bits for metal sheets and tubes

01180

HSS-G



AISI M2
HV:820

Gambo antidrucciolo
High grip shank



Confezione
Packaging



Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
1	3 ÷ 14	6	21	58	0118001	22,82
2	6 ÷ 20	8	21	70	0118002	37,81
3	16 ÷ 30,5	10	25	79	0118003	64,93
4	26 ÷ 40	10	25	86	0118004	135,38
5	36 ÷ 50	13	25	90	0118005	208,72
6	40 ÷ 61	13	25	97	0118006	358,20
7	3 ÷ 31	10	21	109	0118007	97,30
8	3 ÷ 22,5	8	21	85	0118008	69,10

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



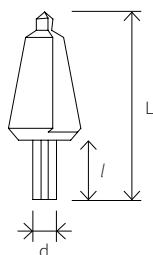
Metalli
Metals



Plastica
Plastic



Emulsione
Lubrificant



Art. 01181 Self
Disponibile su richiesta
On demand



Art. 01195101
€ 148,635

Composizione
Description

Gr.1 3÷14 mm
Gr.2 6÷20 mm
Gr.3 16÷30,5 mm

01215

HSS-G

ATTACCO 1/4" HEX FORM E PER AVVITATORI



AISI M2
HV:820

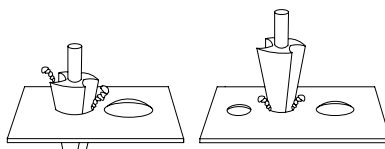
Gambo antidrucciolo
High grip shank



Confezione
Packaging



Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
2	8 ÷ 20	1/4	20	68	0121502	37,159



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



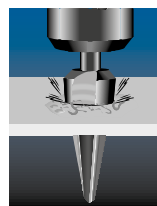
Metalli
Metals



Plastica
Plastic



Emulsione
Lubrificant



Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore

For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexiglass up to 5 mm thickness

Campo di applicazione degli utensili conici rivestiti
Range of application for HSS conical drill-bits



UTENSILI CONICI A GRADINO CON TAGLIANTI ELICOIDALI AD ALTO RENDIMENTO

Spiral step drill bits

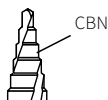
01248

HSS-G

TiAIN



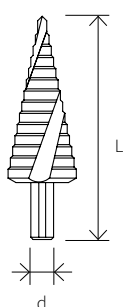
HSS-G+TiAIN
HV 0,05=3300
Gambo antidrucciolo
High grip shank



Confezione
Packaging

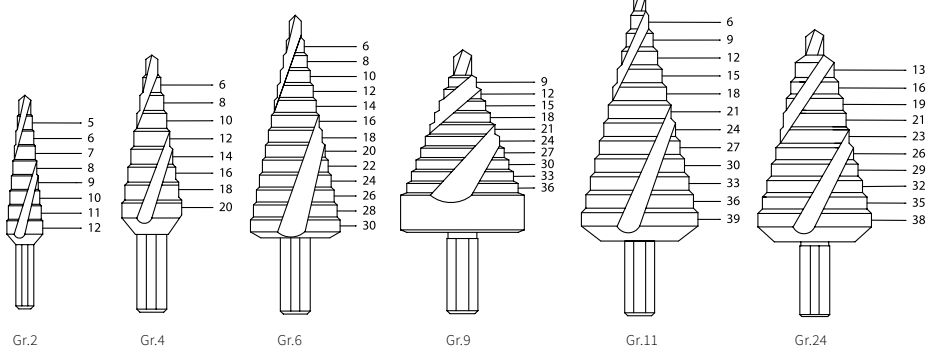


Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
2	4 ÷ 12	1	9	6	70	0124802	52,805
4	4 ÷ 20	2	9	10	85	0124804	86,836
6	4 ÷ 30	2	13	10	100	0124806	178,362
9	6 ÷ 36	3	10	10	80	0124809	272,238
11	4 ÷ 39	3	13	10	107	0124811	310,961
24	6 ÷ 38	-	11	10	96	0124824	287,493



R ≤ 1400 N/mm²

Applicazioni
Applications



Art. 01259109
€ 309,201

Composizione
Description

Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

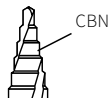
01244

HSS-G

TiN



HSS-G+TiN
HV 0,05=2300
Gambo antidrucciolo
High grip shank



Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
2	4 ÷ 12	1	9	6	70	0124402	48,111
4	4 ÷ 20	2	9	10	85	0124404	77,447
6	4 ÷ 30	2	13	10	100	0124406	163,109
9	6 ÷ 36	3	10	10	80	0124409	246,422
11	4 ÷ 39	3	13	10	107	0124411	264,024
24	6 ÷ 38	-	11	10	96	0124424	272,238

R ≤ 1000 N/mm²

Applicazioni
Applications



Art. 01259108
€ 291,013

Composizione
Description

Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

UTENSILI CONICI A GRADINO CON TAGLIANTI ELICOIDALI AD ALTO RENDIMENTO

Spiral step drill bits

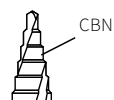
01240

HSS-G



HSS-G
HV 820

Gambo antisdrucchiolo
High grip shank



Confezione
Packaging



$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Emulsione
Lubrificant



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
2	4 ÷ 12	1	9	6	70	0124002	43,652
4	4 ÷ 20	2	9	10	85	0124004	54,565
6	4 ÷ 30	2	13	10	100	0124006	145,507
9	6 ÷ 36	3	10	10	80	0124009	177,033
11	4 ÷ 39	3	13	10	107	0124011	194,010
24	6 ÷ 38	-	11	10	96	0124024	196,433



Art. 01259107
€ 194,791

Composizione
Description

Gr.2 4÷12 mm
Gr.3 4÷20 mm
Gr.4 4÷30 mm

01241

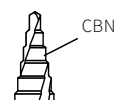
HSS-G

ATTACCO 1/4" HEX FORM E PER AVVITATORI



HSS-G
HV 820

Gambo antisdrucchiolo
High grip shank



Confezione
Packaging



$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



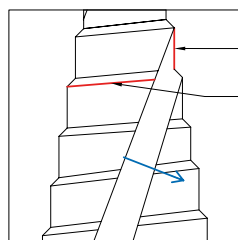
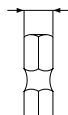
Emulsione
Lubrificant



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	l mm	L mm	cod.	€ cad/each
4	4 ÷ 20	2	9	1/4	25	76	0124104	46,938
6	4 ÷ 30	2	13	1/4	25	100	0124106	126,731



1/4" HEX FORM E



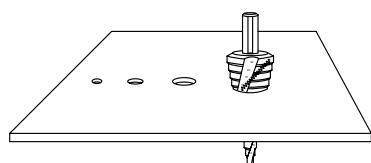
Spoglia assiale
Axial relief

Spoglia radiale
Radial relief

Componente di taglio
Cutting strength

Forza applicata / Strength

Componente
estrazione truciolo
Chip removal strength



Esercitare solo una lieve pressione durante il taglio. L'elicoide è autoalimentante grazie alla componente assiale della forza di taglio.

Please use a very soft press while drilling.

The tool proceeds by itself, due to the axial cutting strength.

UTENSILI CONICI INTEGRALI A GRADINO PER LA FORATURA ED ALLARGATURA DELLA LAMIERA

HSS step drill bits

01236

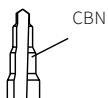
HSS-G

TiAlN

M



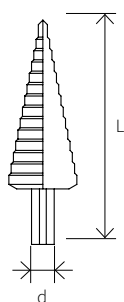
HSS-G + TiAlN
HV 0,05 = 3300
Gambo antidrucciolo
High grip shank
Uso intensivo
Intensive use



Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
1	4 ÷ 12	2	5	6	56	0123601	52,232
2	4 ÷ 12	1	9	6	70	0123602	53,583
3	12 ÷ 20	1	9	10	85	0123603	134,253
4	4 ÷ 20	2	9	10	85	0123604	88,704
5	20 ÷ 30	1	11	10	97	0123605	231,346
6	4 ÷ 30	2	13	10	97	0123606	177,408
7	30 ÷ 40	1	11	13	97	0123607	332,031
8	40 ÷ 50	1	11	13	100	0123608	453,108
9	6 ÷ 36	3	10	10	80	0123609	278,094
*10	25 ÷ 58	3	12	13	90	0123610	619,722
11	4 ÷ 39	3	13	10	107	0123611	290,082
24	6 ÷ 38	-	11	10	96	0123624	281,695



Per tubi di conduzione elettrica
For electrical conduction tubes

PG

21	6,3 ÷ 26,75	-	7	10	91	0123621	214,567
22	6 ÷ 30,5	-	7	10	80	0123622	153,438
23	6 ÷ 37	-	7	10	85	0123623	294,871

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



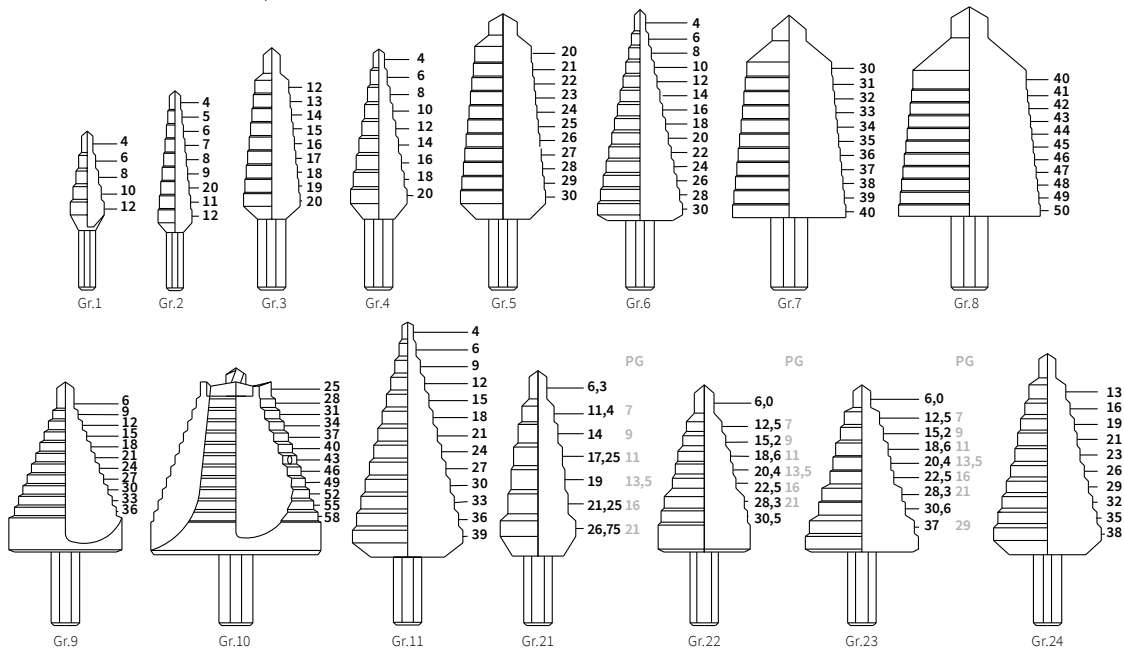
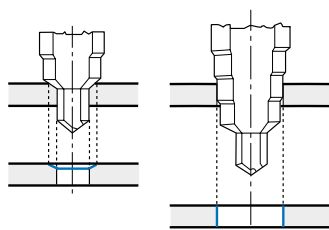
Metalli
Metals



Alluminio
Aluminum



Emulsione
Lubrificant



Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.

For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.

* Punta a centrare per utensile conico Gr.10
Pilot drill for Gr.10 step drill bit

Ø x L	cod.	€ cad/each
Ø 8x48	0118300	33,553

UTENSILI CONICI INTEGRALI A GRADINO PER LA FORATURA ED ALLARGATURA DELLA LAMIERA

HSS step drill bits

01230

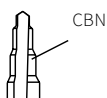
HSS-G

TiN

M



HSS-G+TiN
HV 0,05=2300
Gambo antidrucciolo
High grip shank



Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€
							cad/each
1	4 ÷ 12	2	5	6	56	0123001	47,457
2	4 ÷ 12	1	9	6	70	0123002	48,929
3	12 ÷ 20	1	9	10	85	0123003	123,470
4	4 ÷ 20	2	9	10	85	0123004	79,119
5	20 ÷ 30	1	11	10	97	0123005	212,164
6	4 ÷ 30	2	13	10	97	0123006	158,225
7	30 ÷ 40	1	11	13	97	0123007	302,065
8	40 ÷ 50	1	11	13	100	0123008	417,145
9	6 ÷ 36	3	10	10	80	0123009	252,925
*10	25 ÷ 58	3	12	13	90	0123010	564,575
11	4 ÷ 39	3	13	10	107	0123011	254,122
24	6 ÷ 38	-	11	10	96	0123024	252,925

R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Emulsione
Lubrificant



Per tubi di conduzione elettrica
For electrical conduction tubes

PG

21	6,3 ÷ 26,75	-	7	10	91	0123021	190,586
22	6 ÷ 30,5	-	7	10	80	0123022	147,441
23	6 ÷ 37	-	7	10	85	0123023	264,905



Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.

For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.

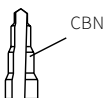
01183

HSS-G

M



AISI M2
HV:820
Gambo antidrucciolo
High grip shank



Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€
							cad/each
1	4 ÷ 12	2	5	6	56	0118301	30,472
2	4 ÷ 12	1	9	6	70	0118302	33,143
3	12 ÷ 20	1	9	10	85	0118303	85,518
4	4 ÷ 20	2	9	10	85	0118304	44,617
5	20 ÷ 30	1	11	10	97	0118305	135,309
6	4 ÷ 30	2	13	10	97	0118306	99,090
7	30 ÷ 40	1	11	13	97	0118307	196,942
8	40 ÷ 50	1	11	13	100	0118308	285,354
9	6 ÷ 36	3	10	10	80	0118309	180,867
*10	25 ÷ 58	3	12	12	90	0118310	458,175
11	4 ÷ 39	3	13	10	107	0118311	170,136
24	6 ÷ 38	-	11	10	96	0118324	156,745

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Emulsione
Lubrificant



Per tubi di conduzione elettrica
For electrical conduction tubes

PG

21	6,3 ÷ 26,75	-	7	10	91	0118321	125,936
22	6 ÷ 30,5	-	7	10	80	0118322	112,533
23	6 ÷ 37	-	7	10	85	0118323	170,136



Art. 01184 Self
Disponibile su richiesta
On demand

UTENSILI CONICI INTEGRALI A GRADINO PER LA FORATURA ED ALLARGATURA DELLA LAMIERA

HSS step drill bits

SET

HSS-G



Art. 01259102
Abs
€ 168,799

Composizione
Description

Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm



Art. 01259105
Abs
€ 183,056

Composizione
Description

Gr.2 4÷12 mm
Gr.3 12÷20 mm
Gr.5 20÷30 mm



Art. 01259103
€ 279,220

TIN

Composizione
Description

Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

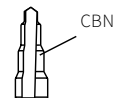
01239

HSS-G

ATTACCO 1/4" HEX FORM E PER AVVITATORI



AISI M2
HV:820



1/4" HEX FORM E



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€
							cad/each
2	4 ÷ 12	1	9	1/4	68	0123902	29,813
4	4 ÷ 20	2	9	1/4	78	0123904	40,452
6	4 ÷ 30	2	13	1/4	101	0123906	89,768



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Plastica
Plastic



Emulsione
Lubrificant



Per fori cilindrici e precisi in lamiera di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.

For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.



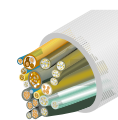
Art. 01259118
Abs
€ 164,896

Composizione
Description

Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

UTENSILI CONICI UNIVERSALI PER PREFORI DI FILETTATURA DI TUBI PER CAVI DI CONDUZIONE ELETTRICA

Universal step drill bits for cables connections

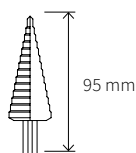


0125405

HSS-G

Metrica Universale
Art. 0125405
€ 188,272

Composizione
Description
Ø 7 ÷ 40,5 mm
M 12 x 1,5 ÷ 40 x 1,5



0125406

HSS-G

Metrica Universale
Art. 0125406
€ 291,079

Composizione
Description
Ø 7 ÷ 40,5 mm
M 12 x 1,5 ÷ 40 x 1,5



TiN

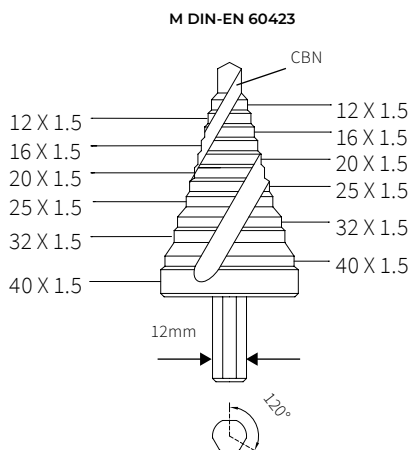
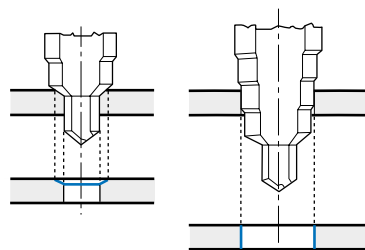
**METRICA
DIN-EN 60423**

Confezione
Packaging



Combinato UNIVERSALE: per fori nocciolo e fori passanti DIN EN 60423

Combined UNIVERSAL: for core holes and through holes DIN EN 60423



COMBINATO UNIVERSALE:
per fori nocciolo (quando è prevista la successiva filettatura) e fori passanti (quando si inserisce un raccordo filettato serrato con un relativo dado).

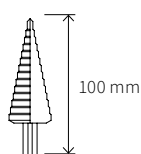
UNIVERSAL COMBINED:
for core holes (when the thread is needed) and through holes (when inserting a threaded connection with a relative nut).

0125403

HSS-G

PG Drill Universal
Art. 0125403
€ 174,843

Composizione
Description
Ø 8 ÷ 37 mm
Pg 7 ÷ 29



Confezione
Packaging

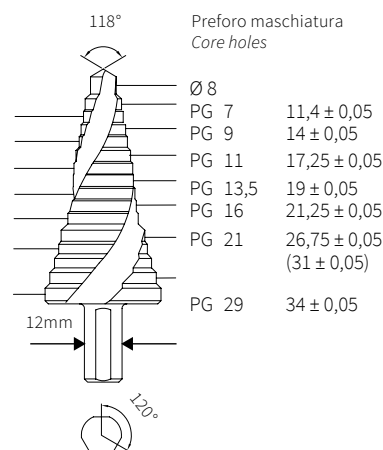


Foro passante
Through holes

12,5 ± 0,05	PG 7
15,2 ± 0,05	PG 9
18,6 ± 0,05	PG 11
20,4 ± 0,05	PG 13,5
22,5 ± 0,05	PG 16
28,3 ± 0,05	PG 21
37 ± 0,05	PG 29

PG DIN-EN 40430

Preforo maschiatura
Core holes



Combinato UNIVERSALE: per fori nocciolo e fori passanti DIN EN 40430

Combined UNIVERSAL: for core holes and through holes DIN EN 40430



TRAPANI A BASE MAGNETICA

MAGNETIC DRILLS

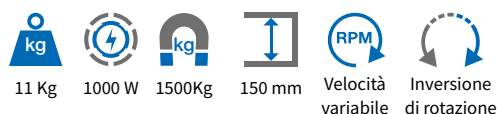
TRAPANO CON BASE MAGNETICA PER FRESE A CAROTARE
FINO A Ø 32 mm, VELOCITÀ VARIABILE ED INVERSIONE DI ROTAZIONE
Magnetic drill for max Ø 32 mm annular cutters, adjustable speed and R/L rotation

28011202

FULL32t



32 mm 13 mm 40 mm M12



Capacità di foratura

Drilling capacity

Frese a carotare (Ø max) <i>Frese a carotare (Ø max)</i>	12 - 32 mm
Punte elicoidali (Ø max) <i>Punte elicoidali (Ø max)</i>	1 - 13 mm
Svasatori (Ø max) <i>Svasatori (Ø max)</i>	10 - 40 mm
Maschi (Ø) <i>Maschi (Ø)</i>	M3 - M12

Dimensioni trapano

Drilling machine dimensions

Altezza <i>Altezza</i>	370 - 512 mm
Lunghezza <i>Lunghezza</i>	320 mm
Larghezza <i>Larghezza</i>	210 mm
Corsa <i>Corsa</i>	150 mm
Peso <i>Weight</i>	11 Kg

Magnete (L x W x H) <i>Magnete (L x W x H)</i>	160x80x42 mm
Forza del magnete <i>Forza del magnete</i>	1500 Kg
Potenza del motore <i>Potenza del motore</i>	1000 W
Tensione <i>Tensione</i>	220-240 AC / 50-60 Hz
Velocità (a vuoto) <i>Velocità (a vuoto)</i>	100 - 600 rpm
Velocità (sotto carico 1000W, 9,1A) <i>Velocità (sotto carico 1000W, 9,1A)</i>	225 rpm
Attacco <i>Attacco</i>	Weldon 19,05 mm



Art. 28011202
€ 2.300,000

CONTENUTO DELLA CONFEZIONE:

- 1 x trapano a base magnetica
- 1 x protezione di sicurezza
- 3 x maniglie
- 3 x adattatori Weldon per maschi con gambo Ø 7,8,9
- 1 chiave esagonale da 2,5 mm
- 1 chiave esagonale da 3 mm
- 1 chiave esagonale da 4 mm
- 1 chiave esagonale da 5 mm
- 1 x sistema di lubrificazione
- 1 x catena di sicurezza
- 1 x manuale d'uso (I-E)
- 1 x espulsore

CASE CONTENT:

- 1 x magnetic drilling machine
- 1 x safety guard
- 3 x handles
- 3 x tap holder (Weldon) for taps with shank Ø 7,8,9
- 1 x hex key 2.5 mm
- 1 x hex key 3 mm
- 1 x hex key 4 mm
- 1 x hex key 5 mm
- 1 x lubrication system
- 1 x safety chain
- 1 x user manual
- 1 x ejector

FULL32T: SCHEMA D'UTILIZZO DEGLI ACCESSORI

FULL32T: accessories usage diagram



Art. 28015010
(incluso / included)

Adattatore per maschi con gambo Ø 7 mm
Adaptor for taps with Ø 7 mm shank

Art. 28015011
(incluso / included)

Adattatore per maschi con gambo Ø 8 mm
Adaptor for taps with Ø 8 mm shank

Art. 28015012
(incluso / included)

Adattatore per maschi con gambo Ø 9 mm
Adaptor for taps with Ø 9 mm shank



WELDON



Art. 28015001

Adattatore
Weldon 19.05 Quick-in
Adaptor
Weldon 19.05 Quick-in



Quick-IN



Art. 28015004

Adattatore
Weldon 19.05 - 1/2 UNF
Adaptor
Weldon 19.05 - 1/2 UNF



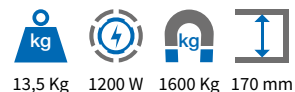
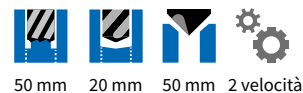
Mandrino attacco 1/2 x 20 UNF
Chuck attachment 1/2 x 20 UNF



TRAPANO CON BASE MAGNETICA
PER FRESE A CAROTARE FINO A Ø 50 mm, DUE VELOCITÀ
Magnetic drill for max Ø 50 mm annular cutters, 2 gears

28011201

PURE-50



Capacità di foratura
Drilling capacity

Frese a carotare (Ø max) <i>Frese a carotare (Ø max)</i>	12 - 50 mm
Punte elicoidali (Ø max) <i>Punte elicoidali (Ø max)</i>	1 - 20 mm
Svasatori (Ø max) <i>Svasatori (Ø max)</i>	10 - 50 mm

Dimensioni trapano
Drilling machine dimensions

Altezza <i>Altezza</i>	385 - 550 mm
Lunghezza <i>Lunghezza</i>	320 mm
Larghezza <i>Larghezza</i>	210 mm
Corsa <i>Corsa</i>	170 mm
Peso <i>Weight</i>	13,5 Kg

Art. 28011201
€ 1.500,000

Magnete (L x W x H) <i>Magnete (L x W x H)</i>	168x84x49 mm
Forza del magnete <i>Forza del magnete</i>	1600 Kg
Potenza del motore <i>Potenza del motore</i>	1200 W
Tensione <i>Tensione</i>	220-240 AC / 50-60 Hz
Velocità (a vuoto) <i>Velocità (a vuoto)</i>	380 rpm / 690 rpm
Velocità (sotto carico) <i>Velocità (sotto carico)</i>	235 rpm / 425 rpm
Attacco <i>Attacco</i>	Weldon 19,05 mm

PURE.50: SCHEMA D'UTILIZZO DEGLI ACCESSORI
PURE.50: accessories usage diagram



Art. 28015001
Adattatore
Weldon 19.05 - Quick-in
Adaptor
Weldon 19.05 - Quick-in



Art. 28015004
Adattatore
Weldon 19.05 - 1/2 UNF
Adaptor
Weldon 19.05 - 1/2 UNF

Mandrino attacco
1/2 x 20 UNF
Mandrino attacco
1/2 x 20 UNF



WELDON



Quick-IN



CONTENUTO DELLA CONFEZIONE:

- 1 x trapano magnetico
- 1 x protezione di sicurezza
- 3 x maniglie
- 1 chiave esagonale da 2,5 mm
- 1 chiave esagonale da 3 mm
- 1 chiave esagonale da 4 mm
- 1 chiave esagonale da 5 mm
- 1 x sistema di lubrificazione
- 1 x catena di sicurezza
- 1 x manuale d'uso
- 1 x espulsore

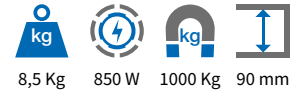
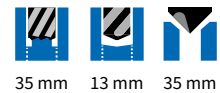
CASE CONTENT:

- 1 x magnetic drilling machine
- 1 x safety guard
- 3 x handles
- 1 x hex key 2.5 mm
- 1 x hex key 3 mm
- 1 x hex key 4 mm
- 1 x hex key 5 mm
- 1 x lubrication system
- 1 x safety chain
- 1 x user manual
- 1 x ejector

TRAPANO CON BASE MAGNETICA
PER FRESE A CAROTARE FINO A Ø 35 mm
Magnetic drill for max Ø 35 mm annular cutters

28011200

PURE-35



Art. 28011200
€ 1.000,000

Capacità di foratura
Drilling capacity

Frese a carotare (Ø max) <i>Frese a carotare (Ø max)</i>	12 - 35 mm
Punte elicoidali (Ø max) <i>Punte elicoidali (Ø max)</i>	1 - 13 mm
Svasatori (Ø max) <i>Svasatori (Ø max)</i>	10 - 35 mm

Dimensioni trapano
Drilling machine dimensions

Altezza <i>Altezza</i>	293 - 383 mm
Lunghezza <i>Lunghezza</i>	265 mm
Larghezza <i>Larghezza</i>	175 mm
Corsa <i>Corsa</i>	90 mm
Peso <i>Weight</i>	8,5 Kg

Magnete (L x W x H) <i>Magnete (L x W x H)</i>	160x81x36 mm
Forza del magnete <i>Forza del magnete</i>	1000 Kg
Potenza del motore <i>Potenza del motore</i>	850 W
Tensione <i>Tensione</i>	220-240 AC / 50-60 Hz
Velocità (a vuoto) <i>Velocità (a vuoto)</i>	750 rpm
Velocità (sotto carico) <i>Velocità (sotto carico)</i>	400 rpm
Attacco <i>Attacco</i>	Weldon 19,05 mm

PURE.35: SCHEMA D'UTILIZZO DEGLI ACCESSORI
PURE.35: accessories usage diagram



Art. 28015001
Adattatore
Weldon 19.05 - Quick-in
*Adaptor
Weldon 19.05 - Quick-in*



WELDON



Quick-IN

CONTENUTO DELLA CONFEZIONE:

- 1 x trapano magnetico
- 1 x protezione di sicurezza
- 3 x maniglie
- 1 chiave esagonale da 2,5 mm
- 1 chiave esagonale da 3 mm
- 1 chiave esagonale da 4 mm
- 1 chiave esagonale da 5 mm
- 1 x sistema di lubrificazione
- 1 x catena di sicurezza
- 1 x manuale d'uso
- 1 x espulsore

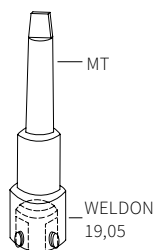
CASE CONTENT:

- 1 x magnetic drilling machine
- 1 x safety guard
- 3 x handles
- 1 x hex key 2.5 mm
- 1 x hex key 3 mm
- 1 x hex key 4 mm
- 1 x hex key 5 mm
- 1 x lubrication system
- 1 x safety chain
- 1 x user manual
- 1 x ejector

ACCESSORI PER L'UTILIZZO DELLE FRESE
A CAROTARE
Accessories for core drills

28012

MANDRINO SENZA LUBRIFICAZIONE INTERNA
Holder without lubrication



MT	L	Weldon	pcs.	cod.	€ cad/each
2	160	12÷60	1	28012001	199,015
3	175	12÷60	1	28012002	199,015

28013

MANDRINO CON LUBRIFICAZIONE INTERNA
Holder with lubrication



MT	L	Weldon	pcs.	cod.	€ cad/each
2	160	12÷60	1	28013001	284,299
3	160	12÷60	1	28013002	284,299
2	160	12÷60	1	28013003	312,501
3	160	12÷60	1	28013004	312,501

ACCESSORI PER L'UTILIZZO DELLE FRESE

A CAROTARE

Accessories for core drills

28015

ADATTATORI

Adaptors





	 pcs.	cod.	€ cad/each
WELDON - 18 Quick IN	1	28015001	65,439
18 Quick IN - WELDON	1	28015002	64,422
WELDON - 1/2 UNF	1	28015004	23,093

ESPULSORI

Ejector

Non adatti all'uso con adattatori art. 28015
They cannot be used with adaptors item n. 28015



∅	 L	 pcs.	cod.	€ cad/each
6,35 x 77	63 mm	1	28016001	12,686
6,35 x 102	83 mm	1	28016002	14,720
6,35 x 123	83 mm	1	28016003	16,859
6,35 x 112	93 mm	1	21216000	25,816
7,1 x 112	93 mm	1	21216001	25,816
8,0 x 112	93 mm	1	21216002	25,816
8,0 x 90	60 mm	1	21218000	7,139



FRESE E SEGHE A TAZZA

HOLE SAWS FOR METAL CUTTING

VISIONE D'INSIEME: FRESE E SEGHE A TAZZA









Overview: Hole saws

FRESE A CAROTARE / ANNULAR CUTTERS




MATERIALE MATERIAL	SPESSORE LAVORABILE MATERIAL THICKNESS	ATTACCO / SERIE SHANK / SERIES	GAMMA DISPONIBILE (Ø MIN+ MAX mm)	IMMAGINE IMAGE	INOX STAINLESS STEEL	HARDOX, WELDOX 400 HARDOX, WELDOX 400	ACCIAIO <1200 N/mm STEEL <1200 N/mm	ACCIAIO <800 N/mm STEEL <800 N/mm	LAMIERE IRON	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM	LEGNO DURO HARD WOOD	LEGNO DOLCE SOFT WOOD	PLASTICA, LAMINATI, CARTONGESSO PLASTER BOARD	MARMO E GRANITO MARBLE AND GRANIT	PIASTRELLE TILES	MATTONI MASONRY	R _s N/mm ²	COD.	
TCT	50 mm	WELDON SERIE LUNGA WELDON LONG SERIES	12÷80		✓	✓	✓	✓	✓	✓	✓							1200	21216	170
	50 mm	QUICK-IN QUICK-IN	12÷60		✓	✓	✓	✓	✓	✓	✓							1200	21212	171
	25 mm	WELDON WELDON	19÷36		✓	✓	✓	✓	✓	✓	✓							1200	21218	172
HSS-Co AISI M35	50 mm	QUICK-IN QUICK-IN	12÷50		✓		✓	✓	✓	✓	✓							1200	21211	173
	30 mm	WELDON WELDON	12÷60		✓		✓	✓	✓	✓	✓							1200	21206	174
	50 mm	WELDON WELDON	12÷60		✓		✓	✓	✓	✓	✓							1200	21207	175
HSS-G	30 mm	WELDON WELDON	12÷60					✓	✓	✓	✓							850	21200	176
	50 mm	WELDON WELDON	12÷60					✓	✓	✓	✓							850	21202	177

FRESE PERFORTRICI / HOLE SAWS

TCT	5 mm	SERIE LUNGA LONG SERIE	20÷100		✓		✓	✓	✓	✓	✓							1300	21042	178
	5 mm		15÷150		✓		✓	✓	✓	✓	✓							1300	21040	179
	5 mm		15÷130		✓		✓	✓	✓	✓	✓							1100	21043	180
HSS-Co AISI M35	5 mm		12÷80		✓			✓	✓	✓	✓							1000	21011	181
HSS-G	TiAIN 5 mm		12÷100		✓		✓	✓	✓	✓	✓							1300	21325	182
	TiN 5 mm		12÷100		✓			✓	✓	✓	✓							1000	21300	183
	5 mm		10÷120					✓	✓	✓	✓							800	21001	184

MATERIALE MATERIAL	SPESSORE LAVORABILE MATERIAL THICKNESS	SPECIALITÀ FEATURES	GAMMA DISPONIBILE (Ø MIN+ MAX mm) RANGE	IMMAGINE IMAGE	INOX STAINLESS STEEL	HARDOX, WELDOX 400 HARDOX, WELDOX 400	ACCIAIO <1200 N/mm STEEL <1200 N/mm	ACCIAIO <800 N/mm STEEL <800 N/mm	LAMIERE IRON	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM	LEGNO DURO HARD WOOD	LEGNO DOLCE SOFT WOOD	PLASTICA, LAMINATI, CARTONGESSO PLASTER BOARD	MARMO E GRANITO MARBLE AND GRANIT	PIASTRELLE TILES	MATTONI MASONRY	R _{sN} /mm ²	COD.	
TCT	50 mm	PER LEGNO FOR WOOD	19÷152						✓			✓	✓	✓			✓	1200	05078	187
	4 mm acciaio steel/ 20 mm legno wood	UNIVERSALE UNIVERSAL	19÷108		✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	1200	21100	186
MD	5 mm	PER MATERIALI EDILI PER MATERIALI EDILI	16÷114						✓						✓	✓	✓	1200	21105	188
HSS-Co M42	3 mm acciaio steel/ 20 mm legno wood	-	14÷305		✓		✓	✓	✓	✓	✓	✓	✓	✓				1000	21090	190
HSS M3	4 mm acciaio steel/ 30 mm legno wood	DENTE RINFORZATO ALTE PRESTAZIONI SISTEMA K-LOCK REINFORCED TOOTH HIGH PERFORMANCE K-LOCK SYSTEM	16÷133					✓	✓	✓	✓	✓	✓	✓				850	21058	195
	3 mm acciaio steel/ 20 mm legno wood	-	14÷305					✓	✓	✓	✓	✓	✓	✓				800	21060	196
	3 mm acciaio steel/ 20 mm legno wood	ALBERO FISSO ALBERO FISSO	16÷102					✓	✓	✓	✓	✓	✓	✓				800	21061	200
	3 mm acciaio steel/ 20 mm legno wood	-	14÷210					✓	✓	✓	✓	✓	✓	✓				750	21067	201

BLU-MOL®

HSS-Co M42	4 mm acciaio steel/ 30 mm legno wood	ALTE PRESTAZIONI ALTE PRESTAZIONI	14÷152		✓		✓	✓	✓	✓	✓	✓	✓	✓				1000	21073	204
	3 mm acciaio steel/ 20 mm legno wood	-	14÷152		✓		✓	✓	✓	✓	✓	✓	✓	✓				1000	21065	205
	2 mm	SPECIALE LAMIERE SOTTILI ATTACCO 1/4" HEX. SPECIALE LAMIERE SOTTILI ATTACCO 1/4" HEX.	16÷38		✓		✓	✓	✓	✓	✓			✓				1000	21069	208

FRESE A CAROTARE CON TAGLIENTI IN METALLO DURO, ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank carbide tip core drill for magnetic drilling machines

21216

TCT

Attacco Weldon - Serie lunga
Weldon shank - Long serie



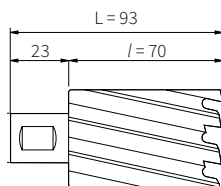
Confezione
Packaging



Inseriti in metallo duro
Carbide tips



WELDON 19.05



R ≤ 1200 N/mm²

Applicazioni
Applications



Hardox
Weldox
400



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys

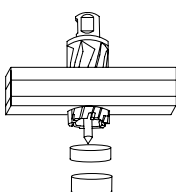


Alluminio
Aluminum

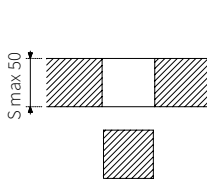


Emulsione
Lubricant

Acciaio accoppiato
Stacked steel



Spessore lavorabile
Material tickness workable



Art. 21210308
€ 1.828,278

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Consigliate per il taglio molto veloce, economico e con grande rendimento in acciaio inox, acciai refrattari, acciai resistenti agli acidi, HARDOX®, WELDOX® 400, tutti gli acciai in genere, ghisa... Particolarmente adatto al taglio delle putrelle e delle rotaie.

The core drills allow a very fast and economical cut in stainless steel, acid resistant steel, HARDOX®, WELDOX® 400, steel and cast iron... Suitable for cut iron beam and rails. WELDOX® is a structural-high strength steel; it's defined by a number which gives its yield strength (MPa).

Ø	l	L	cod.	cad/each	€	Ø	l	L	cod.	cad/each	€
12	70	93	212161200	106,913		39	70	93	212163900	149,685	
14	70	93	212161400	106,913		40	70	93	212164000	149,685	
15	70	93	212161500	106,913		41	70	93	212164100	171,064	
16	70	93	212161600	106,913		42	70	93	212164200	171,064	
17	70	93	212161700	106,913		43	70	93	212164300	171,064	
18	70	93	212161800	106,913		44	70	93	212164400	171,064	
19	70	93	212161900	106,913		45	70	93	212164500	171,064	
20	70	93	212162000	109,295		46	70	93	212164600	192,444	
21	70	93	212162100	109,295		47	70	93	212164700	192,444	
22	70	93	212162200	109,295		48	70	93	212164800	192,444	
23	70	93	212162300	109,295		49	70	93	212164900	192,444	
24	70	93	212162400	109,295		50	70	93	212165000	192,444	
25	70	93	212162500	109,295		51	70	93	212165100	236,401	
26	70	93	212162600	119,984		52	70	93	212165200	236,401	
27	70	93	212162700	119,984		53	70	93	212165300	236,401	
28	70	93	212162800	119,984		54	70	93	212165400	236,401	
29	70	93	212162900	128,305		55	70	93	212165500	236,401	
30	70	93	212163000	128,305		56	70	93	212165600	261,349	
31	70	93	212163100	133,057		57	70	93	212165700	261,349	
32	70	93	212163200	133,057		58	70	93	212165800	261,349	
33	70	93	212163300	149,685		59	70	93	212165900	261,349	
34	70	93	212163400	149,685		60	70	93	212166000	261,349	
35	70	93	212163500	149,685		65	70	93	212166500	285,111	
36	70	93	212163600	149,685		70	70	93	212167000	355,201	
37	70	93	212163700	149,685		75	70	93	212167500	380,148	
38	70	93	212163800	149,685		80	70	93	212168000	402,725	

Ø	Ø per frese Ø lorem ipsum	cod.	cad/each	€
Ø 6,35 x 112 mm	Ø 12mm	21216000	25,816	
Ø 7,1 x 112 mm	Ø 14÷16 mm	21216001	25,816	
Ø 8,0 x 112 mm	Ø 17÷80 mm	21216002	25,816	

FRESE A CAROTARE CON TAGLIENTI IN METALLO DURO, ATTACCO QUICK-IN 18 MM PER TRAPANI A BASE MAGNETICA

Quick-IN 18 mm shank carbide tip core drill for magnetic drilling machines

21212

TCT

Attacco Quick-in - Serie lunga
Quick-IN shank - Long serie



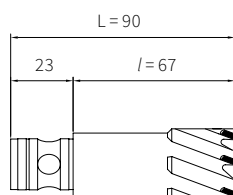
Confezione
Packaging



Inseri in metallo duro
Carbide tips



QUICK-IN



R ≤ 1200 N/mm²

Applicazioni
Applications



Hardox
Weldox
400



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys

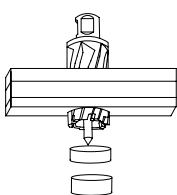


Alluminio
Aluminum

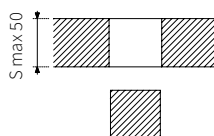


Emulsione
Lubrificant

Acciaio accoppiato
Stacked steel



Spessore lavorabile
Material tickness workable



Art. 21210310
€ 1.275,701

16 pcs

Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Consigliate per il taglio molto veloce, economico e con grande rendimento in acciaio inox, acciai refrattari, acciai resistenti agli acidi, HARDOX®, WELDOX®400, tutti gli acciai in genere, ghisa... Particolarmente adatto al taglio delle putrelle e delle rotaie.

The core drills allow a very fast and economical cut in stainless steel, acid resistant steel, HARDOX®, WELDOX®400, steel and cast iron Suitable for cut iron beam and rails.

Nota: HARDOX® è un acciaio resistente all'abrasione; è identificato solitamente da un numero che ne indica la durezza (HBW). WELDOX® è un acciaio ad alta resistenza, identificato da un numero che ne fornisce la resistenza a snervamento (MPa).

Note: HARDOX® is an abrasion resistant steel; it's defined by a number which gives its hardness (HBW). WELDOX® is a structural-high strength steel; it's defined by a number which gives its yield strength (MPa).



FRESE A CAROTARE CON DENTI IN METALLO DURO, ATTACCO WELDON
PER TRAPANI CON BASE MAGNETICA - SPECIALI PER ROTAIE

Weldon shank carbide tip core drill for magnetic drilling machines

21218

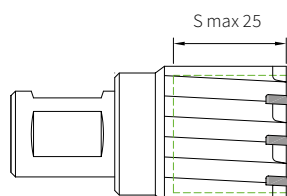
TCT

Attacco Weldon - Speciale rotaie

Weldon shank - Special for rails

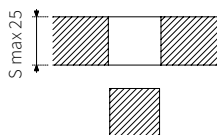
Confezione
Packaging

WELDON 19.05

R ≤ 1200 N/mm²Applicazioni
ApplicationsHardox
Weldox
400Inox
StainlessAcciaio
SteelLeghe leggere
Light alloysAlluminio
AluminumEmulsione
Lubrificant

Ø	l	L	cod.	€ cad/each
19	37	60	212181900	96,800
20	37	60	212182000	96,800
21	37	60	212182100	97,637
22	37	60	212182200	97,637
23	37	60	212182300	98,949
24	37	60	212182400	98,949
25	37	60	212182500	100,383
26	37	60	212182600	101,112
26,5	37	60	212182650	101,112
27	37	60	212182700	101,396
27,5	37	60	212182750	101,396
28	37	60	212182800	102,332
29	37	60	212182900	102,332
30	37	60	212183000	103,881
31	37	60	212183100	106,381
32	37	60	212183200	107,657
33	37	60	212183300	110,415
34	37	60	212183400	111,434
35	37	60	212183500	113,439
36	37	60	212183600	119,787

Ø	cod.	€ cad/each
Ø 8 x 90	21218000	7,139

Spessore lavorabile
Material tickness workable

FRESE A CAROTARE IN HSS-CO 5% CON ATTACCO QUICK-IN 18 mm PER TRAPANI CON BASE MAGNETICA

Quick-IN 18 mm shank carbide tip core drill for magnetic drilling machines

21211

HSS-CO 5%

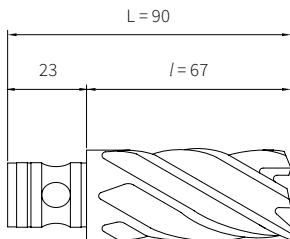
Attacco QUICK-IN - Serie lunga
QUICK-IN shank - Long serie



Confezione
Packaging



QUICK-IN



$R \leq 850 \text{ N/mm}^2$

Ø	l	L	cod.	€ cad/each
12	67	90	2121101200	63,720
13	67	90	2121101300	66,051
14	67	90	2121101400	66,051
15	67	90	2121101500	69,276
16	67	90	2121101600	69,276
17	67	90	2121101700	77,148
18	67	90	2121101800	77,148
19	67	90	2121101900	80,377
20	67	90	2121102000	86,589
21	67	90	2121102100	92,695
22	67	90	2121102200	100,243
23	67	90	2121102300	100,243
24	67	90	2121102400	107,682
25	67	90	2121102500	116,011
26	67	90	2121102600	116,011
27	67	90	2121102700	122,117
28	67	90	2121102800	128,327
29	67	90	2121102900	128,327
30	67	90	2121103000	134,656
31	67	90	2121103100	144,312
32	67	90	2121103200	145,980
33	67	90	2121103300	145,980
34	67	90	2121103400	152,309
35	67	90	2121103500	156,522
36	67	90	2121103600	166,966
37	67	90	2121103700	166,966
38	67	90	2121103800	174,290
39	67	90	2121103900	178,502
40	67	90	2121104000	181,506
41	67	90	2121104100	188,200
42	67	90	2121104200	192,417
43	67	90	2121104300	203,109
44	67	90	2121104400	209,817
45	67	90	2121104500	225,351
46	67	90	2121104600	235,904
47	67	90	2121104700	244,539
48	67	90	2121104800	258,796
49	67	90	2121104900	267,561
50	67	90	2121105000	278,536

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys



Alluminio
Aluminum

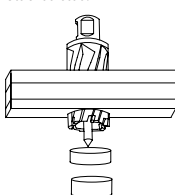


Emulsione
Lubrificant

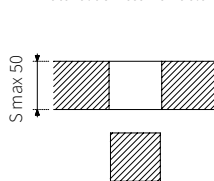


Ø	cod.	€ cad/each
Ø 6,35 x 102	28016002	14,720

Acciaio accoppiato
Stacked steel



Spessore lavorabile
Material tickness workable



Art. 21210309
€ 1.608,228

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Consigliate per il taglio molto veloce, economico e con grande rendimento in acciaio inox, acciai da costruzione, ferro, ghisa, leghe leggere e metalli non ferrosi in genere. Particolarmente adatto al taglio di piatte e lamiere di grandi spessori, tubi, putrelle e profilati.

The core drills allow a very fast and economical cut in stainless steel, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A CAROTARE IN HSS-CO 5% CON ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank HSS-CO 5% core drills for magnetic drilling machines

21206

HSS-CO 5%

Attacco Weldon - Serie corta

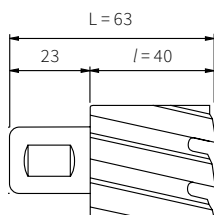
Weldon shank - Short serie



Confezione
Packaging



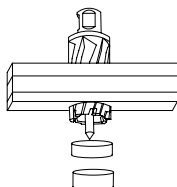
WELDON 19.05



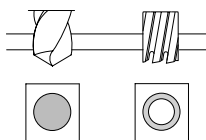
Ø	l	L	cod.	€ cad/each	Ø	l	L	cod.	€ cad/each
12	40	63	212061200	43,801	33	40	63	212063300	109,963
13	40	63	212061300	46,583	34	40	63	212063400	115,554
14	40	63	212061400	52,185	35	40	63	212063500	120,203
15	40	63	212061500	55,909	36	40	63	212063600	124,861
16	40	63	212061600	58,710	37	40	63	212063700	130,462
17	40	63	212061700	58,710	38	40	63	212063800	135,121
18	40	63	212061800	58,830	39	40	63	212063900	140,713
19	40	63	212061900	60,106	40	40	63	212064000	145,361
20	40	63	212062000	61,853	41	40	63	212064100	150,964
21	40	63	212062100	63,641	42	40	63	212064200	157,488
22	40	63	212062200	65,518	43	40	63	212064300	162,148
23	40	63	212062300	67,474	44	40	63	212064400	169,597
24	40	63	212062400	71,721	45	40	63	212064500	180,688
25	40	63	212062500	73,759	46	40	63	212064600	184,163
26	40	63	212062600	84,833	47	40	63	212064700	187,638
27	40	63	212062700	87,735	48	40	63	212064800	191,110
28	40	63	212062800	90,345	49	40	63	212064900	195,457
29	40	63	212062900	92,082	50	40	63	212065000	198,931
30	40	63	212063000	94,692	55	40	63	212065500	235,414
31	40	63	212063100	99,028	60	40	63	212066000	362,214
32	40	63	212063200	102,502					

Ø	cod.	€ cad/each
6,35 x 77	28016001	12,686

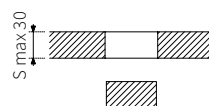
Acciaio accoppiato
Stacked steel



Vantaggi
Advantages



Spessore lavorabile
Material thickness workable



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys



Alluminio
Aluminum



Emulsione
Lubrificant



Art. 21210306
€ 1.156,158

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Art. 21210406
€ 384,888

6 pcs
Ø 12 - 14 - 16
18 - 20 - 22
1 pcs



Le frese a carotare al cobalto 5% permettono un taglio molto veloce ed economico nell'acciaio inox, acciaio da costruzione, ferro, ghisa, leghe leggere e metalli non ferrosi in genere. Speciale per piatti e lamiere di grande spessore, tubi, putrelle e profilati.

The 5% cobalt core drills allow a very fast and economical cut in, stainless steel, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A CAROTARE IN HSS-CO 5% CON ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank HSS-CO 5% core drills for magnetic drilling machines

Attacco Weldon - Serie lunga Weldon shank - Long serie

21207

HSS-CO 5%



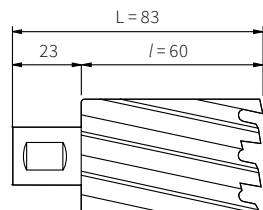
Confezione
Packaging



Ø	l	L	cod.	€ cad/each	Ø	l	L	cod.	€ cad/each
12	60	83	212071200	61,527	33	60	83	212073300	145,448
13	60	83	212071300	62,800	34	60	83	212073400	148,500
14	60	83	212071400	73,741	35	60	83	212073500	151,540
15	60	83	212071500	74,944	36	60	83	212073600	156,949
16	60	83	212071600	79,961	37	60	83	212073700	160,506
17	60	83	212071700	83,002	38	60	83	212073800	164,360
18	60	83	212071800	86,815	39	60	83	212073900	166,824
19	60	83	212071900	88,332	40	60	83	212074000	169,054
20	60	83	212072000	90,619	41	60	83	212074100	196,473
21	60	83	212072100	92,906	42	60	83	212074200	200,276
22	60	83	212072200	95,185	43	60	83	212074300	204,091
23	60	83	212072300	97,474	44	60	83	212074400	207,894
24	60	83	212072400	102,804	45	60	83	212074500	248,250
25	60	83	212072500	105,091	46	60	83	212074600	252,065
26	60	83	212072600	121,841	47	60	83	212074700	255,870
27	60	83	212072700	124,893	48	60	83	212074800	260,436
28	60	83	212072800	127,173	49	60	83	212074900	264,249
29	60	83	212072900	130,222	50	60	83	212075000	268,816
30	60	83	212073000	133,264	55	60	83	212075500	316,790
31	60	83	212073100	139,356	60	60	83	212076000	375,274
32	60	83	212073200	142,407					



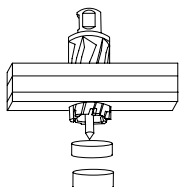
WELDON 19.05



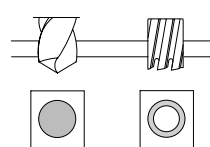
R ≤ 1200 N/mm²

Ø	cod.	€ cad/each
6,35 x 102	28016002	14,720

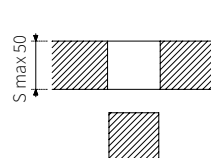
Acciaio accoppiato
Stacked steel



Vantaggi
Advantages



Spessore lavorabile
Material thickness workable



Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys



Alluminio
Aluminum



Emulsione
Lubricant



Art. 21210307
€ 1.625,258

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Art. 21210407
€ 518,239

6 pcs
Ø 12 - 14 - 16
18 - 20 - 22
1 pcs



Le frese a carotare al cobalto 5% permettono un taglio molto veloce ed economico nell'acciaio inox, acciaio da costruzione, ferro, ghisa, leghe leggere e metalli non ferrosi in genere. Speciale per piatti e lamiere di grande spessore, tubi, putrelle e profilati.

The 5% cobalt core drills allow a very fast and economical cut in, stainless steel, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A CAROTARE IN HSS-G CON ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank HSS core drills for magnetic drilling machines

21200

HSS-G

Attacco Weldon - Serie corta

Weldon shank - Short serie

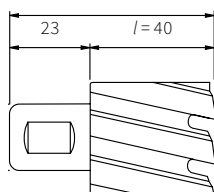


Confezione
Packaging



WELDON 19.05

L = 63



Ø	l	L	cod.	€ cad/each	Ø	l	L	cod.	€ cad/each
12	40	63	212001200	27,985	35	40	63	212003500	75,424
13	40	63	212001300	28,725	36	40	63	212003600	77,448
14	40	63	212001400	33,711	37	40	63	212003700	79,513
15	40	63	212001500	34,452	38	40	63	212003800	82,037
16	40	63	212001600	36,736	39	40	63	212003900	84,477
17	40	63	212001700	38,385	40	40	63	212004000	86,104
18	40	63	212001800	40,210	41	40	63	212004100	99,100
19	40	63	212001900	41,252	42	40	63	212004200	101,531
20	40	63	212002000	42,504	43	40	63	212004300	103,159
21	40	63	212002100	43,705	44	40	63	212004400	105,598
22	40	63	212002200	44,997	45	40	63	212004500	124,281
23	40	63	212002300	46,323	46	40	63	212004600	126,721
24	40	63	212002400	49,232	47	40	63	212004700	129,151
25	40	63	212002500	50,641	48	40	63	212004800	131,592
26	40	63	212002600	58,266	49	40	63	212004900	134,021
27	40	63	212002700	59,830	50	40	63	212005000	136,463
28	40	63	212002800	61,457	51	40	63	212005100	148,448
29	40	63	212002900	63,137	52	40	63	212005200	151,358
30	40	63	212003000	64,888	53	40	63	212005300	154,278
31	40	63	212003100	67,997	54	40	63	212005400	157,179
32	40	63	212003200	69,782	55	40	63	212005500	161,643
33	40	63	212003300	71,616	60	40	63	212006000	190,891
34	40	63	212003400	73,483					

Ø	cod.	€ cad/each
6,35 x 77	28016001	12,686

R ≤ 850 N/mm²

Applicazioni
Applications



Acciaio
Steel



Leghe leggere
Light alloys

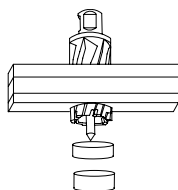


Alluminio
Aluminum

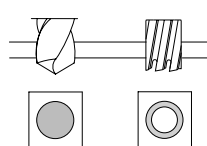


Emulsione
Lubricant

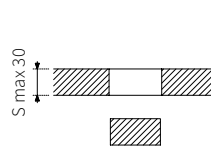
Acciaio accoppiato
Stacked steel



Vantaggi
Advantages



Spessore lavorabile
Material thickness workable



Art. 21210300
€ 773,697

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Art. 21210400
€ 296,449

6 pcs
Ø 12 - 14 - 16
18 - 20 - 22
1 pcs



Le frese a carotare permettono un taglio molto veloce ed economico nel ferro, acciaio da costruzione, ghisa, leghe leggere e metalli non ferrosi in genere. Speciale per piatti e lamiere di grande spessore, tubi, putrelle e profilati.

The core drills allow a very fast and economical cut in, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A CAROTARE IN HSS-G CON ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank HSS core drills for magnetic drilling machines

21202

HSS-G

Attacco Weldon - Serie lunga

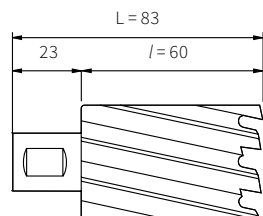
Weldon shank - Long serie



Confezione
Packaging



WELDON 19.05



$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Acciaio
Steel



Leghe leggere
Light alloys



Alluminio
Aluminum

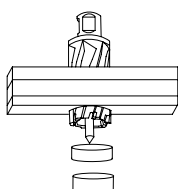


Emulsione
Lubricant

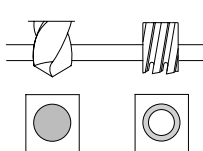
Ø	l	L	cod.	€ cad/each	Ø	l	L	cod.	€ cad/each
12	60	83	212021200	38,885	35	60	83	212023500	96,034
13	60	83	212021300	39,677	36	60	83	212023600	98,194
14	60	83	212021400	46,624	37	60	83	212023700	100,363
15	60	83	212021500	47,376	38	60	83	212023800	102,533
16	60	83	212021600	50,328	39	60	83	212023900	104,691
17	60	83	212021700	52,372	40	60	83	212024000	106,860
18	60	83	212021800	54,603	41	60	83	212024100	124,187
19	60	83	212021900	55,699	42	60	83	212024200	126,356
20	60	83	212022000	57,044	43	60	83	212024300	129,245
21	60	83	212022100	58,339	44	60	83	212024400	131,404
22	60	83	212022200	59,715	45	60	83	212024500	156,679
23	60	83	212022300	61,133	46	60	83	212024600	159,566
24	60	83	212022400	64,837	47	60	83	212024700	161,736
25	60	83	212022500	66,317	48	60	83	212024800	164,625
26	60	83	212022600	77,259	49	60	83	212024900	167,515
27	60	83	212022700	78,699	50	60	83	212025000	177,685
28	60	83	212022800	80,868	51	60	83	212025100	206,640
29	60	83	212022900	82,309	52	60	83	212025200	212,220
30	60	83	212023000	87,368	53	60	83	212025300	217,812
31	60	83	212023100	88,086	54	60	83	212025400	223,392
32	60	83	212023200	90,255	55	60	83	212025500	223,392
33	60	83	212023300	91,696	60	60	83	212026000	239,070
34	60	83	212023400	93,866					

Ø	cod.	€ cad/each
6,35 x 102	28016002	14,720

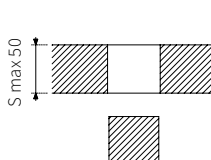
Acciaio accoppiato
Stacked steel



Vantaggi
Advantages



Spessore lavorabile
Material thickness workable



Art. 21210302
€ 1.028,914

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Art. 21210402
€ 323,180

6 pcs
Ø 12 - 14 - 16
18 - 20 - 22
1 pcs



Le frese a carotare permettono un taglio molto veloce ed economico nel ferro, acciaio da costruzione, ghisa, leghe leggere e metalli non ferrosi in genere. Speciale per piatti e lamiere di grande spessore, tubi, putrelle e profilati.

The core drills allow a very fast and economical cut in, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A TAZZA TCT AD ALBERO MOBILE PER FORARE LAMIERE, TUBI, PROFILATI IN ACCIAIO INOX E ACCIAI DURI TRATTATI

Tungsten carbide tipped hole saws for stainless and hard metal sheets

21042

TCT

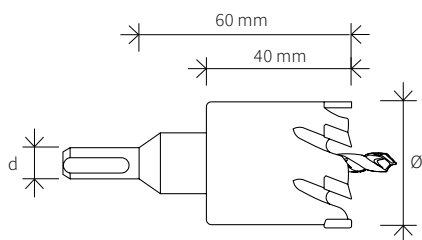
Serie lunga
Long serie



Confezione
Packaging



Inserti in metallo duro
Carbide tips



R ≤ 1300 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys




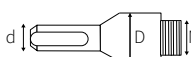
Plastica
Plastic



Emulsione
Lubrificant

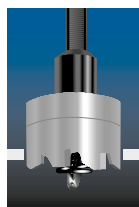
Ø	d	cod.	€ cad/each	Ø	d	cod.	€ cad/each
20	10	2104202000	44,875	45	13	2104204500	81,280
21	10	2104202100	44,875	46	13	2104204600	90,616
22	10	2104202200	44,875	47	13	2104204700	90,616
23	10	2104202300	44,875	48	13	2104204800	90,616
24	10	2104202400	44,875	49	13	2104204900	90,616
25	10	2104202500	44,875	50	13	2104205000	90,616
26	10	2104202600	51,706	51	13	2104205100	104,431
27	10	2104202700	51,706	52	13	2104205200	104,431
28	10	2104202800	51,706	53	13	2104205300	104,431
29	10	2104202900	51,706	54	13	2104205400	104,431
30	10	2104203000	51,706	55	13	2104205500	104,431
31	10	2104203100	60,564	56	13	2104205600	118,235
32	10	2104203200	60,564	57	13	2104205700	118,235
33	10	2104203300	60,564	58	13	2104205800	118,235
34	10	2104203400	60,564	59	13	2104205900	118,235
35	10	2104203500	60,564	60	13	2104206000	139,819
36	10	2104203600	68,433	65	13	2104206500	139,819
37	10	2104203700	68,433	70	13	2104207000	151,031
38	10	2104203800	68,433	75	13	2104207500	162,251
39	13	2104203900	68,433	80	13	2104208000	175,198
40	13	2104204000	68,433	85	13	2104208500	196,773
41	13	2104204100	81,280	90	13	2104209000	210,586
42	13	2104204200	81,280	95	13	2104209500	221,806
43	13	2104204300	81,280	100	13	2104210000	238,205
44	13	2104204400	81,280				

	pcs.	cod.	€ cad/each
 Ø ≥ 15mm	5	21045098	0,706

Gambo Arbor	Per frese Fit hole cutters	d	D	M	cod.	€ cad/each
	Ø 15 ÷ 21	10	15	12 x 1,5	21045120	9,009
	Ø 22 ÷ 38	10	19	14 x 1,5	21045121	10,927
	Ø 39 ÷ 100	13	22	14 x 1,5	21045122	13,508

Punta pilota Pilot drill	Ø x L	cod.	€ cad/each
	Ø 6 x 78	21045102	13,964

Spessore lavorabile
Material thickness workable



La speciale geometria variabile dei denti in metallo duro di altissima qualità consente il taglio altamente professionale e con grande rendimento in tubi, profilati e lamiere in acciaio inox, acciai alto-legati e materiali composti ad elevata resistenza.

The special variable geometry of the high-quality tungsten carbide teeth makes it possible to realise a very professional and efficient cut in pipes, structural sections and metal sheets in stainless steel, high-alloy steel and high-resistance materials.

FRESE A TAZZA TCT AD ALBERO MOBILE PER FORARE LAMIERE IN ACCIAIO INOX, ACCIAI DURI TRATTATI

Tungsten carbide tipped hole saws for stainless and hard metal sheets

21040

TCT

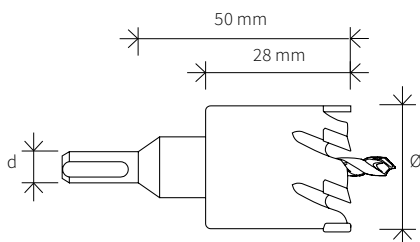
Serie corta
Short serie



Confezione
Packaging



Inserti in metallo duro
Carbide tips



R ≤ 1300 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Plastica
Plastic



Emulsione
Lubrificant

Spessore lavorabile
Material tickness workable



Ø	d	cod.	€ cad/each	Ø	d	cod.	€ cad/each
15	10	2104001500	35,199	48	13	2104004800	79,294
16	10	2104001600	35,199	49	13	2104004900	79,294
17	10	2104001700	35,199	50	13	2104005000	79,294
18	10	2104001800	35,199	51	13	2104005100	89,268
19	10	2104001900	36,728	52	13	2104005200	89,268
20	10	2104002000	36,728	53	13	2104005300	89,268
21	10	2104002100	36,728	54	13	2104005400	89,268
22	10	2104002200	36,728	55	13	2104005500	89,268
23	10	2104002300	37,492	56	13	2104005600	107,124
24	10	2104002400	37,492	57	13	2104005700	107,124
25	10	2104002500	37,492	58	13	2104005800	107,124
26	10	2104002600	44,231	59	13	2104005900	107,124
27	10	2104002700	44,231	60	13	2104006000	120,832
28	10	2104002800	44,231	63	13	2104006300	120,832
29	10	2104002900	44,231	65	13	2104006500	120,832
30	10	2104003000	44,231	70	13	2104007000	120,832
31	10	2104003100	51,511	75	13	2104007500	156,429
32	10	2104003200	51,511	76	13	2104007600	169,373
33	10	2104003300	51,511	80	13	2104008000	169,373
34	10	2104003400	51,511	85	13	2104008500	186,639
35	10	2104003500	51,511	90	13	2104009000	201,734
36	10	2104003600	59,690	95	13	2104009500	212,529
37	10	2104003700	59,690	100	13	2104010000	229,785
38	13	2104003800	59,690	*105	13	2104010500	287,679
39	13	2104003900	59,690	*110	13	2104011000	294,871
40	13	2104004000	59,690	*115	13	2104011500	338,026
41	13	2104004100	68,357	*120	13	2104012000	363,206
42	13	2104004200	68,357	*125	13	2104012500	370,811
43	13	2104004300	68,357	*130	13	2104013000	385,661
44	13	2104004400	68,357	*135	13	2104013500	399,697
45	13	2104004500	68,357	*140	13	2104014000	424,599
46	13	2104004600	79,294	*145	13	2104014500	439,087
47	13	2104004700	79,294	*150	13	2104015000	449,410

*Integrale / One piece



pcs.

cod.

€
cad/each



Ø ≥ 15mm

5

21045098

0,706

Gambo
Arbor

Per frese
Fit hole cutters

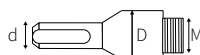
d

D

M

cod.

€
cad/each



Ø 15 ÷ 21

10

15

12 x 1,5

21045120

9,009

Ø 22 ÷ 38

10

19

14 x 1,5

21045121

10,927

Ø 39 ÷ 100

13

22

14 x 1,5

21045122

13,508

Punta pilota
Pilot drill

Per frese
Fit hole cutters

Ø x L

cod.

€
cad/each



Ø 15 ÷ 100

6 x 62

21045100

9,009

Ø 105 ÷ 120

8 x 62

21045101

12,920

Art. 21055302
€ 315,168

8 pcs
Ø 51 ÷ 54 mm



Ø 51 ÷ 54 mm



210705546B



Ø 6 ÷ 8 mm



HM4 Ø 12

Art. 21055303
€ 315,168

8 pcs
Ø 54 ÷ 57 mm



Ø 54 ÷ 57 mm



210705546B



Ø 6 ÷ 8 mm



HM4 Ø 12



Art. 21055130
€ 1.324,994

28 pcs
Ø 15 ÷ 40 x 1 + 45 - 50mm



Art. 21055300
€ 364,403

8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

FRESE A TAZZA TCT AD ALBERO FISSO PER FORARE LAMIERE, TUBI, PROFILATI IN ACCIAIO INOX E ACCIAI DURI TRATTATI
Tungsten carbide tipped hole saws for stainless and hard metal sheets

TCTlite

Serie corta
Short serie

21043

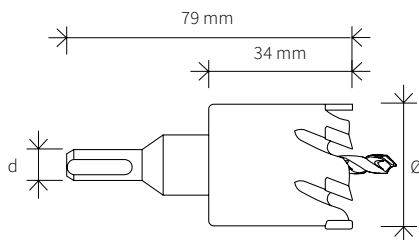
TCT



Confezione
Packaging



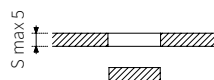
Inserti in metallo duro
Carbide tips



Ø	d	cod.	€ cad/each
12	10	2104301200	9,000
14	10	2104301400	13,550
15	10	2104301500	14,400
16	10	2104301600	15,350
17	10	2104301700	16,350
18	10	2104301800	17,350
19	10	2104301900	18,300
20	10	2104302000	19,250
21	10	2104302100	20,200
22	10	2104302200	21,200
23	10	2104302300	22,150
24	10	2104302400	23,100
25	10	2104302500	24,100
26	10	2104302600	25,050
27	10	2104302700	26,000
28	10	2104302800	27,000
29	10	2104302900	27,950
30	10	2104303000	28,900
31	10	2104303100	29,950
32	10	2104303200	30,850
33	10	2104303300	31,800
34	10	2104303400	32,700
35	10	2104303500	33,750
36	10	2104303600	34,700
37	10	2104303700	35,650
38	10	2104303800	36,600
39	10	2104303900	37,650
40	10	2104304000	38,600
41	10	2104304100	39,500
42	10	2104304200	40,450
43	10	2104304300	41,450

Ø	d	cod.	€ cad/each
44	10	2104304400	42,350
45	10	2104304500	43,300
46	10	2104304600	44,300
47	10	2104304700	45,250
48	10	2104304800	46,250
49	10	2104304900	47,200
50	10	2104305000	48,150
51	10	2104305100	49,150
52	10	2104305200	50,200
53	10	2104305300	51,100
54	10	2104305400	52,100
55	10	2104305500	53,000
56	10	2104305600	54,200
57	10	2104305700	55,050
58	10	2104305800	56,800
60	10	2104306000	57,900
65	10	2104306500	67,250
70	10	2104307000	71,650
75	10	2104307500	76,600
80	10	2104308000	81,200
85	10	2104308500	86,700
90	10	2104309000	92,250
95	10	2104309500	97,500
100	10	2104310000	102,550
105	10	2104310500	113,650
110	10	2104311000	118,700
115	10	2104311500	124,550
120	10	2104312000	128,400
125	10	2104312500	133,950
130	10	2104313000	139,350

Spessore lavorabile
Material tickness workable



Art. 21055305
€ 200,000

8 pcs
 Ø 16 - 18 - 20 - 22
 25 - 30 - 32 - 35

R ≤ 1100 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Alluminio
Aluminum



Leghe leggere
Light alloys



Plastica
Plastic



Emulsione
Lubrificant

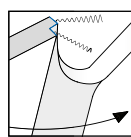
FRESE A TAZZA IN HSS-CO 5% RETTIFICATE PER FORARE LAMIERE IN ACCIAIO INOX, ACCIAI ALTAMENTE LEGATI, FERRO, LEGHE LEGGERE E METALLI IN GENERE.
HSS-CO fully ground hole cutters

21011

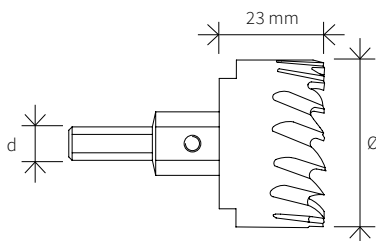
HSS-CO 5% AISI M35



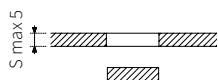
Confezione
Packaging



HRC= 64 ÷ 65



Spessore lavorabile
Material thickness workable



R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Alluminio
Aluminum



Leghe leggere
Light alloys



Emulsione
Lubrificant



La speciale geometria variabile dei denti in metallo duro di altissima qualità consente il taglio altamente professionale e con grande rendimento in tubi, profilati e lamiere in acciaio inox, acciai alto-legati e materiali composti ad elevata resistenza.

The special variable geometry of the high-quality tungsten carbide teeth makes it possible to realise a very professional and efficient cut in pipes, structural sections and metal sheets in stainless steel, high-alloy steel and high-resistance materials.

Ø	D	cod.	€ cad/each	Ø	D	cod.	€ cad/each
12	4	2101101200	22,933	39	10	2101103900	54,196
13	4	2101101300	22,933	40	12	2101104000	54,196
14	4	2101101400	23,425	41	12	2101104100	54,882
15	4	2101101500	23,425	42	12	2101104200	58,103
16	4	2101101600	23,425	43	12	2101104300	60,145
17	4	2101101700	23,425	44	14	2101104400	61,240
18	4	2101101800	23,425	45	14	2101104500	64,764
19	6	2101101900	24,168	46	14	2101104600	64,764
20	6	2101102000	25,613	47	14	2101104700	65,331
21	6	2101102100	26,798	48	14	2101104800	75,000
22	6	2101102200	28,036	49	14	2101104900	77,000
23	6	2101102300	30,221	50	14	2101105000	82,000
24	6	2101102400	30,711	51	16	2101105100	85,863
25	6	2101102500	31,746	52	16	2101105200	87,654
26	8	2101102600	33,865	53	16	2101105300	89,845
27	8	2101102700	34,390	54	16	2101105400	93,331
28	8	2101102800	35,797	55	16	2101105500	94,990
29	8	2101102900	37,088	56	16	2101105600	95,631
30	8	2101103000	37,731	57	16	2101105700	95,631
31	10	2101103100	39,272	58	16	2101105800	99,354
32	10	2101103200	40,457	59	16	2101105900	102,547
33	10	2101103300	41,764	60	16	2101106000	110,000
34	10	2101103400	43,204	65	18	2101106500	132,227
35	10	2101103500	45,922	70	18	2101107000	141,830
36	10	2101103600	48,140	75	20	2101107500	152,746
37	10	2101103700	48,670	80	20	2101108000	170,726
38	10	2101103800	49,972				



pcs.

cod.

€
cad/each



Ø ≥ 20mm

5

21005098

0,706

Gambo

Per frese

€

Arbor

Fit hole cutters

d

D

M

cod.

€
cad/each



Ø 12 ÷ 14

56

8

10 x 1,25

21005099

5,841

Ø 15 ÷ 34

56

10

12 x 1,25

21005100

5,841

Ø 35 ÷ 50

56

10

14 x 1,5

21005102

8,749

Ø 51 ÷ 120

60

12

16 x 1,5

21005101

8,749

Punta pilota AISI M35

Per frese

€

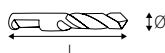
Pilot drill

Fit hole cutters

Ø x L

cod.

€
cad/each



Ø 12 ÷ 80

6 x 52

21005115

4,511



Art. 21012300
€ 287,676

Art. 21012301
€ 191,787

8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

6 pcs
Ø 16 - 18 - 20
22 - 25 - 30



FRESE A TAZZA IN HSS-G RETTIFICATE RIVESTITE AL TIALN PER FORARE LAMIERE IN ACCIAIO ALTOLEGATO, ACCIAIO INOX, FERRO, TUTTI I MATERIALI METALLICI, PLASTICA DURA
HSS-G+TiAlN fully ground hole cutters

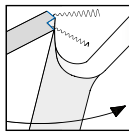
21325

HSS-G

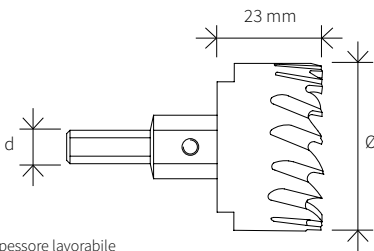
TiAlN



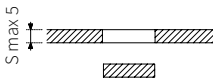
Confezione
Packaging



HSS-G+TiAlN
HV 0,05 = 3300



Spessore lavorabile
Material tickness workable



R ≤ 1300 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Plastica
Plastic

Ø	cod.	€ cad/each	Ø	cod.	€ cad/each
12	2132501200	33,098	41	2132504100	67,003
13	2132501300	33,098	42	2132504200	67,003
14	2132501400	33,098	43	2132504300	69,399
15	2132501500	33,098	44	2132504400	69,399
16	2132501600	35,900	45	2132504500	73,379
17	2132501700	35,900	46	2132504600	73,379
18	2132501800	35,900	47	2132504700	73,379
19	2132501900	37,477	48	2132504800	78,972
20	2132502000	37,477	49	2132504900	78,972
21	2132502100	38,919	50	2132505000	78,972
22	2132502200	38,919	51	2132505100	79,924
23	2132502300	41,708	52	2132505200	79,924
24	2132502400	41,708	53	2132505300	79,924
25	2132502500	41,708	54	2132505400	79,924
26	2132502600	44,510	55	2132505500	79,924
27	2132502700	44,510	56	2132505600	82,239
28	2132502800	44,510	57	2132505700	82,239
29	2132502900	44,510	58	2132505800	82,239
30	2132503000	46,257	59	2132505900	82,239
31	2132503100	46,257	60	2132506000	82,239
32	2132503200	46,257	65	2132506500	117,835
33	2132503300	46,257	70	2132507000	125,139
34	2132503400	46,257	75	2132507500	134,961
35	2132503500	46,257	80	2132508000	147,224
36	2132503600	54,244	85	2132508500	164,398
37	2132503700	54,244	90	2132509000	177,896
38	2132503800	54,244	95	2132509500	187,719
39	2132503900	59,825	100	2132510000	201,207
40	2132504000	59,825			



pcs.

cod.

€

cad/each



Ø ≥ 20mm

5

21005098

€ 0,706

Gambo

Per frese

€

Arbor

Fit hole cutters

d

D

M

cod.

cad/each



Ø 12 ÷ 14

56

8

10 x 1,25

21005099

€ 5,841

Ø 15 ÷ 34

56

10

12 x 1,25

21005100

€ 5,841

Ø 35 ÷ 50

56

10

14 x 1,5

21005102

€ 8,749

Ø 51 ÷ 100

60

12

16 x 1,5

21005101

€ 8,749

Punta pilota AISI M35

Per frese

€

Pilot drill

Fit hole cutters

Ø x L

cod.

cad/each



Ø 12 ÷ 100

6 x 52

21005115

€ 4,511



Art. 21335300
€ 329,637

8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Art. 21335301
€ 251,729

6 pcs
Ø 16 - 18 - 20
22 - 25 - 30



Art. 21335100
€ 1.985,832

39 pcs
Ø 12 ÷ 50 x 1 mm

Art. 21335102
€ 937,713

21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm

Art. 21335101
€ 1.408,328

31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm

Frese a tazza HSS+TiAlN: più si "scalda", più rende. È un esclusivo rivestimento PVD che permette il taglio a secco ad elevati parametri di taglio e con rendimenti eccezionali nell'acciaio inox e in tutti i materiali in genere.

HSS+TiAlN hole cutters: The more it "heats" the more it performs. It is a special PVD Coating which allows the dry cut with high cutting parameters, and a great performance while drilling into the stainless steel and all kind of materials.

FRESE A TAZZA IN HSS-G RETTIFICATE RIVESTITE AL TIN PER FORARE LAMIERE IN ACCIAIO ALTOLEGATO, ACCIAIO INOX, FERRO, TUTTI I MATERIALI METALLICI, PLASTICA DURA

HSS-G+TiN fully ground hole cutters

21300

HSS-G

TiN



R ≤ 1000 N/mm²

Applicazioni Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Emulsione
Lubrificant



Art. 21320300
€ 293,675

8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Art. 21320301
€ 221,762

6 pcs
Ø 16 - 18 - 20
22 - 25 - 30



Art. 21320100
€ 1.692,540

39 pcs
Ø 12 ÷ 50 x 1 mm

Art. 21320101
€ 1.222,655

31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm

Art. 21320102
€ 863,047

21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm

Ø	cod.	€ cad/each	Ø	cod.	€ cad/each
12	2130001200	28,432	41	2130004100	61,793
13	2130001300	28,432	42	2130004200	61,793
14	2130001400	28,432	43	2130004300	64,281
15	2130001500	28,432	44	2130004400	64,281
16	2130001600	31,308	45	2130004500	67,754
17	2130001700	31,308	46	2130004600	67,754
18	2130001800	31,308	47	2130004700	67,754
19	2130001900	31,308	48	2130004800	72,940
20	2130002000	31,308	49	2130004900	72,940
21	2130002100	34,241	50	2130005000	72,940
22	2130002200	34,241	51	2130005100	78,175
23	2130002300	37,045	52	2130005200	78,175
24	2130002400	37,045	53	2130005300	78,175
25	2130002500	37,045	54	2130005400	78,175
26	2130002600	39,887	55	2130005500	78,175
27	2130002700	39,887	56	2130005600	79,466
28	2130002800	39,887	57	2130005700	79,466
29	2130002900	39,887	58	2130005800	79,466
30	2130003000	41,177	59	2130005900	79,466
31	2130003100	41,177	60	2130006000	79,466
32	2130003200	41,177	65	2130006500	105,984
33	2130003300	41,177	70	2130007000	112,006
34	2130003400	41,177	75	2130007500	120,700
35	2130003500	41,177	80	2130008000	132,000
36	2130003600	49,931	85	2130008500	147,231
37	2130003700	49,931	90	2130009000	159,917
38	2130003800	49,931	95	2130009500	168,800
39	2130003900	55,692	100	2130010000	181,496
40	2130004000	55,692			



pcs.

cod.

€

cad/each



Ø ≥ 20mm

5

21005098

€ 0,706

Gambo

Per frese

€

Arbor

Fit hole cutters

d

D

M

cod.

cad/each



Ø 12 ÷ 14

56

8

10 x 1,25

21005099

€ 5,841

Ø 15 ÷ 34

56

10

12 x 1,25

21005100

€ 5,841

Ø 35 ÷ 50

56

10

14 x 1,5

21005102

€ 8,749

Ø 51 ÷ 100

60

12

16 x 1,5

21005101

€ 8,749

Punta pilota

AISI M35

Per frese

€

Pilot drill

Fit hole cutters

Ø x L

cod.

cad/each



Ø 12 ÷ 100

6 x 52

21005115

€ 4,511

Il Rivestimento in Nitrato di Titanio, elevando la durezza superficiale e riducendo notevolmente il coefficiente di attrito, permette il taglio negli acciai alto legati ed in particolare nell'acciaio inox. Le frese al TiN sono, inoltre molto adatte per il taglio dell'alluminio e di tutti i materiali abrasivi (plastica dura, vetroresina). Naturalmente, il rendimento nel taglio degli acciai dolci è elevatissimo.

The Titanium Nitride Coating allows high performances in stainless steel cutting, low alloy steel cutting. Aluminium and abrasive materials such as fiberglass.

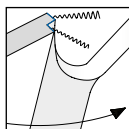
FRESE A TAZZA IN HSS-G RETTIFICATE PER FORARE LAMIERE IN ACCIAIO, FERRO, LEGHE LEGGERE, TUTTI I MATERIALI METALLICI, PLASTICA DURA
HSSG fully ground hole cutters

21001

HSS-G

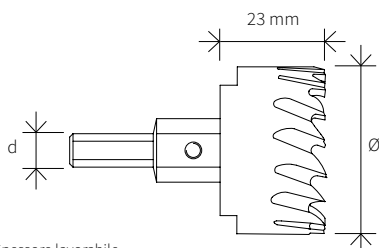


Confezione Packaging



HSS-G
HRC = 64

Taglio laterale:
miglior estrazione
dei trucioli
Side cut: easy chips
removal



Spessore lavorabile
Material tickness workable



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



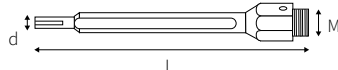
Plastica
Plastic



Emulsione
Lubrificant

Innovativo disegno dei denti e taglio laterale: migliore scarico dei trucioli con grande rendimento del taglio.

Upgrade teeth design and side cut: easy chips removal with high cutting performances



Ø	Z	cod.	€ cad/each	Ø	Z	cod.	€ cad/each
*10	5	2100101000	18,346	41	14	2100104100	40,653
12	5	2100101200	17,641	42	14	2100104200	41,502
13	5	2100101300	17,641	43	14	2100104300	42,961
14	6	2100101400	18,019	44	16	2100104400	43,743
15	6	2100101500	18,019	45	16	2100104500	46,260
16	6	2100101600	18,019	46	16	2100104600	46,260
17	6	2100101700	18,019	47	16	2100104700	46,665
18	6	2100101800	18,019	48	16	2100104800	49,389
19	8	2100101900	18,591	49	16	2100104900	50,315
20	8	2100102000	19,702	50	16	2100105000	50,315
21	8	2100102100	20,614	51	18	2100105100	61,331
22	8	2100102200	21,566	52	18	2100105200	62,610
23	8	2100102300	23,247	53	18	2100105300	64,175
24	8	2100102400	23,624	54	18	2100105400	66,665
25	8	2100102500	24,420	55	18	2100105500	67,850
26	10	2100102600	26,050	56	18	2100105600	68,308
27	10	2100102700	26,454	57	18	2100105700	68,308
28	10	2100102800	27,536	58	18	2100105800	70,967
29	10	2100102900	28,529	59	18	2100105900	73,248
30	10	2100103000	29,024	60	18	2100106000	73,248
31	12	2100103100	30,209	65	20	2100106500	94,448
32	12	2100103200	31,121	70	20	2100107000	101,307
33	12	2100103300	32,126	75	22	2100107500	109,104
34	12	2100103400	33,234	80	22	2100108000	121,947
35	12	2100103500	34,016	85	24	2100108500	137,527
36	12	2100103600	35,659	90	24	2100109000	152,299
37	12	2100103700	36,052	95	24	2100109500	163,589
38	12	2100103800	37,016	100	24	2100110000	176,277
39	12	2100103900	40,145	120	30	2100112000	313,544
40	14	2100104000	40,145				

*Integrale
*One piece



pcs.

cod.

€

cad/each



Ø ≥ 20mm

5

21005098

0,706

Gambo
Arbor

Per frese
Fit hole cutters

d

D

M

cod.

€

cad/each



Ø 12 ÷ 14

56

8

10 x 1,25

21005099

5,841

Ø 15 ÷ 34

56

10

12 x 1,25

21005100

5,841

Ø 35 ÷ 50

56

10

14 x 1,5

21005102

8,749

Ø 51 ÷ 120

60

12

16 x 1,5

21005101

8,749

Punta Pilota AISI M2
Arbor

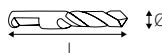
Per frese
Fit hole cutters

d

cod.

€

cad/each



Ø 10

4 x 50

21005109

2,101

Ø 12 ÷ 120

6 x 52

21005110

3,104

Prolunga 400mm
Extension 400mm

Per frese
Fit hole cutters

L

d

M

cod.

€

cad/each

Ø 15 ÷ 34

400

13

12 x 1,25

21005120

33,340

Ø 35 ÷ 50

400

13

14 x 1,5

21005122

33,340

Ø 51 ÷ 120

400

13

16 x 1,5

21005121

33,340

ASSORTIMENTI FRESE PERFORATRICI A TAZZA IN HSS-G

HSS-G hole-cutters sets

HSS-G



Art. 21010100
€ 1.222,517

39 pcs
Ø 12 ÷ 50 x 1 mm

Art. 21010101
€ 861,030

31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm

Art. 21010102
€ 580,901

21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm

Art. 21010104
€ 270,490

11 pcs
Ø 16 - 18 - 20 - 21 - 22 - 25
27 - 28 - 30 - 32 - 35 mm



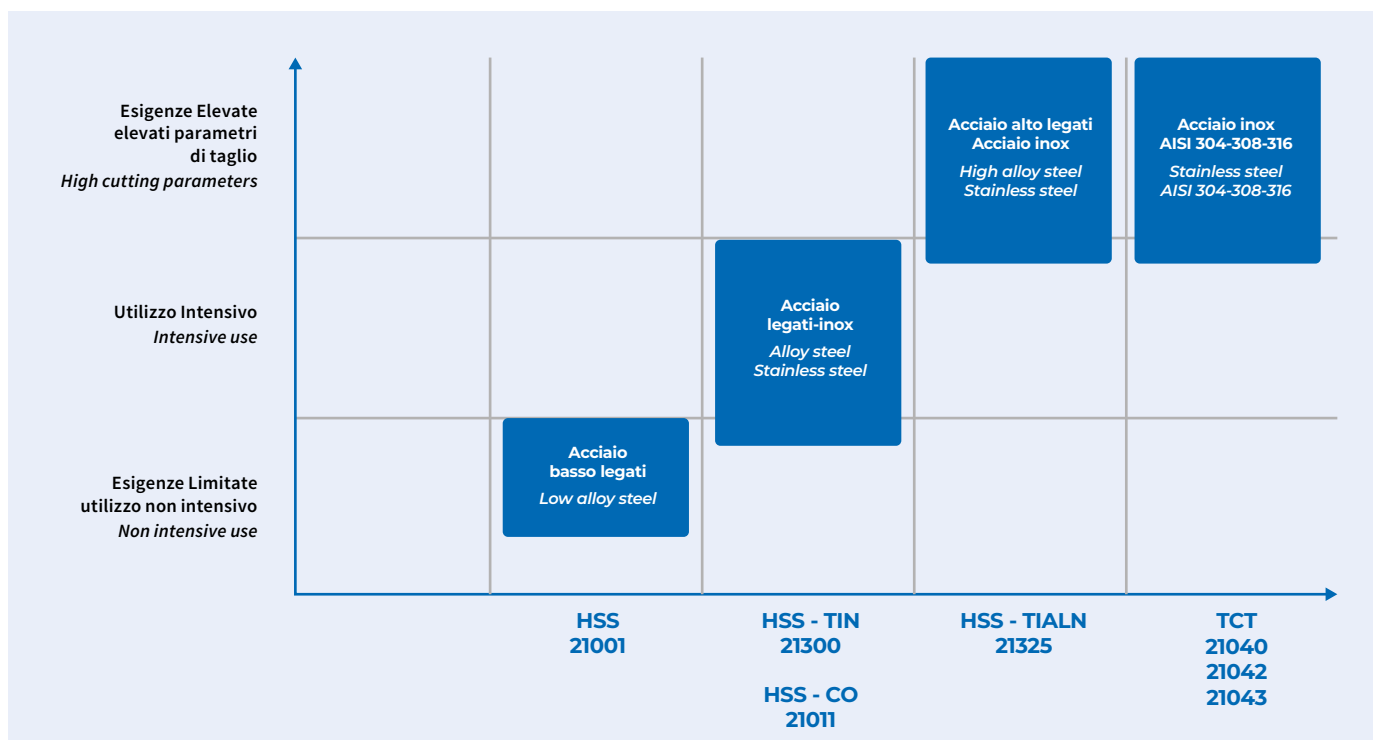
Art. 21010300
€ 228,455

8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35 mm

Art. 21010301
€ 169,223

6 pcs
Ø 16 - 18 - 20
22 - 25 - 30 mm

Guida alla scelta della tazza
Choosing chart



Dentatura ricavata interamente di rettifica, taglio laterale rompitruciolo, molla di espulsione del dischetto.
Grande rendimento, precisione di foratura nel taglio anche profondo di tutte le lamiere in acciaio, leghe leggere, materiali metallici in genere, utensile riaffilabile.

Fully ground cutting teeth with chipbreaker, regrindable. High performances and precision in hole-making into metal sheets, light alloys, all kind of metals.

SEGHE A TAZZA CON DENTI IN METALLO DURO - USO INTENSIVO

Carbide tipped professional multi-purpose hole saws

21100

TCT

Usa intensivo - multimateriale
Intensive use - multipurpose

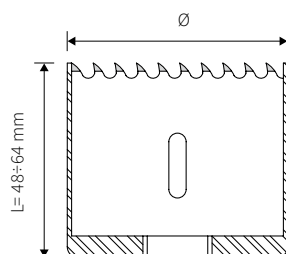


Confezione
Packaging



Inserti in metallo duro
Carbide tips

Ø mm	Ø pollici / inch	d filetto / thread	cod.	€ cad/each
19	3/4	UNF 1/2 x 20	2110001900	18,346
22	7/8		2110002200	20,792
25	1"		2110002500	20,792
29	1-1/8		2110002900	21,638
32	1-1/4	UNF 5/8 x 18	2110003200	23,417
35	1-3/8		2110003500	23,417
38	1-1/2		2110003800	25,092
44	1-3/4		2110004400	26,342
51	2"		2110005100	28,431
57	2-1/4		2110005700	34,283
64	2-1/2		2110006400	35,957
68	2-23/32		2110006800	37,632
76	3"		2110007600	39,307
89	3-1/2		2110008900	47,040
108	4-1/4		2110010800	61,152

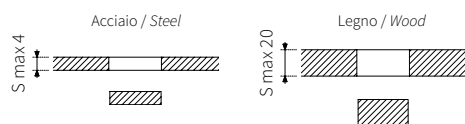


Per frese
Fit hole cutters



Ø	d mm	cod.	€ cad/each
19 ÷ 29	HEX 8,5	210707519	16,636
32 ÷ 108	HEX 8,5	210707546	29,609
	6,35x90	21070202	5,254

Spessore lavorabile
Material tickness workable



Art. 21109301
€ 239,903

6 pcs
Ø 19 - 22 - 29
38 - 44 - 57

5519 - 5546



2 pcs
Ø 7 x 100



R ≤ 1200 N/mm²

Applicazioni
Applications



Art. 21101 Self
Disponibile su richiesta
On demand



Taglio professionale nel legno, plastica, fibre di vetro, ceramica, piastrelle, materiali edili leggeri, acciaio inox, fragranite.
Max profondità di foratura: 40 mm.

Multi purpose hole saws for wood, plastics, tiles, light construction materials, stainless steel, fragranite. Maximum cutting depth: 40 mm.

SEGHE A TAZZA CON DENTI IN METALLO DURO PER LEGNO, TRUCIOLATI, AGGLOMERATI, ETC.

Carbide tipped hole saws for wood

05078

TCT

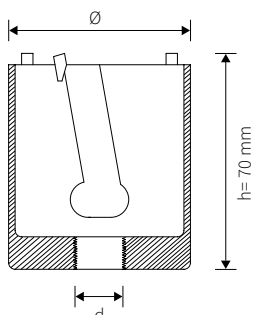
Alto rendimento - multimateriale
High performance - multipurpose



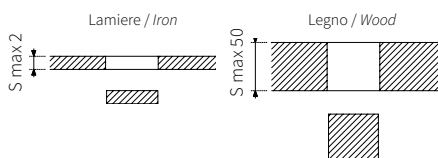
Confezione
Packaging



Inseri in metallo duro
Carbide tips



Spessore lavorabile
Material thickness workable



$R \leq 1200 \text{ N/mm}^2$

Applicazioni
Applications



Art. 05081 Self
Disponibile su richiesta
On demand

Ø mm	Ø pollici / inch	d filetto / thread	pcs.	cod.	€ cad/each
19	3/4"	UNF 1/2 x 20	1	0507801900	11,969
22	7/8"		1	0507802200	12,469
25	1"		1	0507802500	13,165
29	1.1/8"		1	0507802900	13,965
32	1.1/4"	UNF 5/8 x 18	2	0507803200	15,152
35	1.3/8"		2	0507803500	16,578
38	1.1/2"		2	0507803800	17,924
41	1.5/8"		2	0507804100	19,350
44	1.3/4"		2	0507804400	20,786
48	1.7/8"		3	0507804800	22,721
51	2"		3	0507805100	24,068
54	2.1/8"		3	0507805400	24,077
57	2.1/4"		3	0507805700	25,435
60	2.3/8"		3	0507806000	25,214
64	2.1/2"		3	0507806400	26,855
67	2.5/8"		3	0507806700	28,123
68	2.23/32"		3	0507806800	30,136
70	2.3/4"		3	0507807000	30,136
73	2.7/8"		4	0507807300	31,412
76	3"		4	0507807600	32,760
79	3.1/8"		4	0507807900	34,037
83	3.1/4"		4	0507808300	35,748
89	3.1/2"		4	0507808900	38,301
95	3.3/4"		4	0507809500	40,917
102	4"		5	0507810200	48,319
114	4.1/2"		5	0507811400	54,012
127	5"		5	0507812700	60,209
140	5.1/2"		5	0507814000	66,352
152	6"		5	0507815200	72,027

Per frese
Fit hole saws



Ø	d mm	cod.	€ cad/each
Ø 19 ÷ 29	HEX 8,5	210705580	13,338
Ø 32 ÷ 152	HEX 8,5	210705581	23,339
	6,35 x 100	21070204	5,254



Art. 05079504
€ 1.078,814

32 pcs
Ø 19 - 22 - 25 - 29 - 32
35 - 38 - 41 - 44 - 48
51 - 57 - 60 - 70 - 83
102 (2x)

4 pcs
5580
14÷29



6 pcs
5581
32÷152



5 pcs
21070204



Art. 05079300
€ 243,688

9 pcs
Ø 19 - 22 - 29 - 35
38 - 44 - 51 - 57 - 64

5580 - 5581



Art. 05079301
€ 164,998

6 pcs
Ø 19 - 22 - 29
38 - 44 - 57

5580 - 5581



400 x 650 x 320mm



Per forare con grande rendimento legno duro e dolce, stratificati, truciolati, agglomerati, laminati, materiali sandwich. Taglia anche plastica dura, mattoni forati e porosi, lamiera sottile dolce. max profondità di foratura 50 mm.

High performance on drilling into tough and soft wood, plywood, chipboards, agglomerates, laminated, porous bricks and thin metal sheet. Maximum cutting depth 50mm.

FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI PER MATERIALI EDILI DURI, PIASTRELLE, GRANITO, ETC.

Carbide grit hole saws, high quality

21105

MD

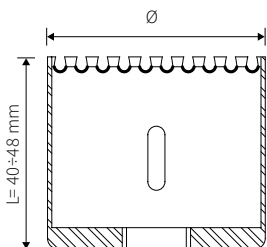
Per materiali edili duri
For hard building materials



Confezione
Packaging



Inseriti in carburo di tungsteno
Carbide grit



Spessore lavorabile
Material tickness workable



R ≤ 1200 N/mm²

Applicazioni Applications



Art. 21135 Self
Disponibile su richiesta
On demand

Ø mm	Ø pollici / inch	d filetto / thread	pcs.	cod.	€ cad/each
16	5/8	UNF 1/2 x 20	1	2110501600	17,873
19	3/4		1	2110501900	17,873
20	-		1	2110502000	18,292
22	7/8		1	2110502200	18,292
25	1"		1	2110502500	18,292
29	1-1/8		1	2110502900	19,024
32	1-1/4	UNF 5/8 x 18	1	2110503200	20,140
35	1-3/8		1	2110503500	20,800
38	1-1/2		1	2110503800	22,263
44	1-3/4		1	2110504400	24,373
48	1-7/8		1	2110504800	24,373
51	2"		1	2110505100	24,373
54	2-1/8		1	2110505400	24,373
57	2-1/4		1	2110505700	24,735
60	2-3/8		1	2110506000	25,863
64	2-1/2		1	2110506400	25,863
70	2-3/4		1	2110507000	30,876
76	3"		1	2110507600	31,942
83	3-1/4		1	2110508300	32,988
86	3-3/8		1	2110508600	34,007
95	3-3/4		1	2110509500	34,380
102	4"		1	2110510200	34,380
114	4-1/2		1	2110511400	40,687

Utilizzo
a rotazione
Rotary use only



Per frese Fit hole cutters



Ø	cod.	€ cad/each
Ø 16 ÷ 29	210706519	13,338
Ø 32 ÷ 114	210706546	23,339

Punta pilota Pilot drill



Ø	cod.	€ cad/each
Ø 7x80	21020112	13,116

Art. 03121002
€ 59,211



Per tagliare: Ceramica, gres, granito, marmo, ardesia, fibre di vetro, ghisa, laminati e tutti i materiali abrasivi.

Cuts: Ceramic tile, laminates, composition board, marble, fiberglass, cast iron, and other abrasive materials.

ASSORTIMENTI FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI

Carbide tipped professional multi-purpose hole saws

HSS-G DIN 338



Art. 21107301
€ 104,976

6 pcs
Art. 211105
Ø 16 - 20 - 22 - 25 - 32 - 35 mm (1x)

1 pcs
Art. 210706519
Ø 16÷29 N. 1 pc

1 pcs
Art. 210706546
Ø 32÷114 N. 1 pc

FRESA A TAZZA MULTIPLA PER EDILIZIA IN CARBURO DI TUNGSTENO IN GRANI

Multiple sizes carbide grit hole saw

21108



Confezione
Packaging



Ø mm	Hex d	Box pcs.	cod.	€ cad/each
33-43-53-67-83	10	1	21108100	53,309

h = 60mm

Qualità standard
Standard quality

Applicazioni
Applications



Mattoni
brick



Art. 21107600
€ 74,808

10 pcs
Art. 211105
Ø 33 - 53 - 67 - 73 - 83 mm (1x)

Art. 23010060
€ 7,511



Art. 23005050
€ 7,015



SEGHE A TAZZA BIMETALLICHE AL COBALTO 8% AISI M42 A DENTATURA VARIABILE

HSS-CO 8% AISI M42 bimetal hole saws with variable teeth

21090

HSS-CO 8%

AISI M42

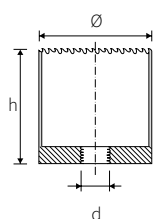
Lavori gravosi - per acciaio inox
Heavy works - for stainless steel



Confezione
Packaging



BIM.
HSS-CO 8% AISI M42



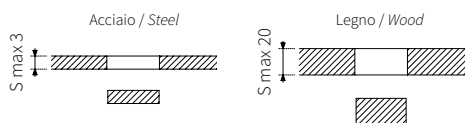
Ø	h
14÷17	67±1
19÷37	61±1
38÷210	54±1
220÷305	44±1



Variable: nuovo disegno dei denti
più performanti Z 4-6

Variable: new upgrade teeth design Z 4-6

Spessore lavorabile
Material thickness workable



$R \leq 1000 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Legno
Wood



Sandwich
Sandwich



Truciolo
Chipboard

Ø	pollici inch	d filetto thread	cod.	€ cad/each
14	9/16	UNF 1/2 x 20	2109001400	10,340
16	5/8		2109001600	10,340
17	11/16		2109001700	10,340
19	3/4		2109001900	11,087
20	-		2109002000	11,087
21	13/16		2109002100	11,819
22	7/8		2109002200	11,819
24	15/16		2109002400	12,517
25	1"		2109002500	12,517
27	1.1/16		2109002700	13,616
29	1.1/8		2109002900	13,616
30	1.3/16		2109003000	14,443
32	1.1/4	UNF 5/8 x 18	2109003200	14,443
33	1.5/16		2109003300	14,938
35	1.3/8		2109003500	16,528
37	1.7/16		2109003700	16,935
38	1.1/2		2109003800	16,935
40	1.9/16		2109004000	17,372
41	1.5/8		2109004100	17,748
43	1.11/16		2109004300	17,748
44	1.3/4		2109004400	19,281
45	-		2109004500	19,281
46	1.13/16		2109004600	19,281
48	1.7/8		2109004800	19,704
50	-		2109005000	20,403
51	2"		2109005100	20,403
52	2.1/16		2109005200	22,605
54	2.1/8		2109005400	22,605
57	2.1/4		2109005700	23,385
59	2.5/16		2109005900	23,908
60	2.3/8		2109006000	23,908
64	2.1/2		2109006400	25,784
65	2.9/16		2109006500	25,784
67	2.5/8		2109006700	28,571

Ø	pollici inch	d filetto thread	cod.	€ cad/each
68	-		2109006800	28,571
70	2.3/4		2109007000	28,571
73	2.7/8		2109007300	29,988
75	-		2109007500	31,162
76	3"		2109007600	31,162
79	3.1/8		2109007900	31,992
83	3.1/4		2109008300	33,330
86	3.3/8		2109008600	33,931
89	3.1/2		2109008900	37,061
92	3.5/8		2109009200	38,805
95	3.3/4		2109009500	38,805
98	3.7/8		2109009800	39,768
100	-		2109010000	39,767
102	4"		2109010200	39,767
105	4.1/8		2109010500	42,749
108	4.1/4		2109010800	46,270
111	4.3/8		2109011100	47,720
114	4.1/2		2109011400	52,659
121	4.3/4		2109012100	54,532
127	5"		2109012700	58,559
133	5.1/4		2109013300	63,034
140	5.1/2		2109014000	64,230
146	5.3/4		2109014600	72,039
152	6"		2109015200	69,178
160	6.5/16		2109016000	74,629
168	6.5/8		2109016800	78,669
177	6.31/32		2109017700	83,526
200	7.7/8		2109020000	90,256
210	8.5/16		2109021000	91,495
220	8"3/4		2109022000	94,743
233	9"1/8		2109023300	124,503
250	9"7/8		2109025000	131,859
260	10"1/4		2109026000	153,615
265	10"1/2		2109026500	168,903
280	11"		2109028000	210,981
305	12"		2109030500	477,750



Fase in M42
M42 zone

Area di saldatura elettronica
Electronic band area

Banda di supporto
Support band

Microdurezza verificata
direttamente sul tagliante
Micro-hardness tested
directly on the cutting tooth

Seghe a tazza di altissima qualità, con taglianti in acciaio al Cobalto 8% per i lavori più gravosi; taglio professionale e profondo nell'acciaio inox, acciai duri, ghisa, alluminio, bronzo, ottone, legno duro e derivati, resine sintetiche, laminati plastici, gomma dura, cartongesso, etc.

High quality hole saws with HSS-CO 8% cutting edges for the toughest jobs; deep and professional cut in stainless steel, hard steel, cast iron, aluminium, bronze, brass, wood and its by-products, synthetic resins, laminated plastic, hard rubber, etc.

ALBERI PER SEGHE A TAZZA BIMETAL HSS-CO 8%

Arbors for HSS-CO 8% bimetal hole saws

ALBERI PER SEGHE BIMETAL Ø 14÷30 mm

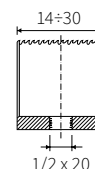
Fit hole saws Ø 14÷30 mm

Art. 210705514B Art. 210705515B Q.C. Art. 210705519B Art. 210705518B Art. 210705519 SDSB



SDS - PLUS

Per seghe Fit hole saws	d mm	cod.	€ cad/each
Ø 14 ÷ 30	Ø 6,35	210705514B	10,014
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515B	11,911
Ø 14 ÷ 30	HEX 8,5	210705519B	11,911
Ø 14 ÷ 30	HEX 11	210705518B	13,338
Ø 14 ÷ 30	SDS PLUS	210705519SDSB	17,342



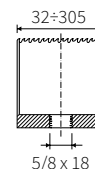
ALBERI PER SEGHE BIMETAL Ø 32÷305 mm

Fit hole saws Ø 32÷305 mm

Art. 210705520B Art. 210705521B Q.C. Art. 210705546B Art. 210705547B Art. 210705548B Q.C.



Per seghe Fit hole saws	d mm	cod.	€ cad/each
Ø 32 ÷ 305	HEX 11	210705520B	13,821
Ø 32 ÷ 305	HEX 6,35 Q.C.	210705521B	13,821
Ø 32 ÷ 305	HEX 8,5	210705546B	20,841
Ø 32 ÷ 305	HEX 11	210705547B	23,339
Ø 32 ÷ 305	HEX 8,5 Q.C.	210705548B	18,671
Ø 32 ÷ 305	SDS PLUS	210705546SDSB	30,339
Ø 32 ÷ 305	SDS PLUS	210705549SDSB	24,271
Ø 32 ÷ 305	HEX 11	210705545B	27,133
Ø 32 ÷ 305	HEX 16	210705573B	22,560



Art. 210705546 SDS Art. 210705549 SDB Art. 210705545B Art. 210705573B



SDS - PLUS

SDS - PLUS

Art. 21070203 Art. 21070204 Art. 21070202 Art. 21070300 Art. 21070302



Punta pilota Pilot drill	Per alberi Fit arbors	cod.	€ cad/each
Ø 6,35 x 115	5514B - 5520B	21070203	5,254
	5545B - 5573B - 5518B		
Ø 6,35 x 90	5515B - 5519B - 5519SDSB	21070202	5,254
	5521B - 5546B - 5546SDSB		
	5547B - 5548B - 5549SDSB		
Adattatore - montato su alberi 5514B - 5519B permette di portare frese da Ø 32 a Ø 305 Arbor adapter - Allows 5514B - 5519B to be used with 1.1/4" through 6" hole saws		21070300	5,164
Prolunga - HEX 11 L = 300 mm 12" extension - to be used with arbors 5518B - 5520B - 5547B - 5545B		21070302	24,174

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS-CO 8%

HSS-CO 8% Bi-metal hole saws kits

KIT PER ELETTRICISTI

Electrician's kit



Art. 21013201K
€ 131,294

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519B - 5546B

1

Art. 21013202K
€ 113,880

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519B - 5546B

1



Art. 21013209K
€ 187,554

7 pcs
Ø 22÷68

Composizione
Description

Ø 22 - 29 - 35
38 - 44 - 51
68

5519B - 5546B

1

Art. 21013207K
€ 247,851

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60

5519B - 5546B

1

KIT PER IDRAULICI

Plumber's kit



Art. 21013204K
€ 120,568

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519B - 5546B

1

KIT INDUSTRIALE

Industrial kit



Art. 21013206K
€ 462,194

15 pcs
Ø 19÷114

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64
76 - 83 - 92
95 - 105 - 114

5519B - 5546B

1

KIT PER INSTALLATORI

Journeyman's kit



Art. 21013205K
€ 186,216

9 pcs
Ø 19÷64

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64

5519B - 5546B

1

1



Art. 21013215K
€ 255,158

11 pcs
Ø 19÷76

Composizione
Description

Ø 19 - 22 - 25 - 29
35 - 38 - 44 - 51
57 - 64 - 76

5519B - 5546B

1

Art. 21013216K
€ 257,635

12 pcs
Ø 16÷76

Composizione
Description

Ø 16 - 19 - 22
25 - 29 - 32
35 - 38 - 44
51 - 64 - 76

5519B - 5546B

1

Art. 21013211K
€ 243,825

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64

5519B - 5546B

1

Art. 21013212K
€ 274,643

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25
30 - 35 - 40
51 - 60 - 64
76 - 83

5519B - 5546B

1

ESPOSITORI SEGHE A TAZZA BIMETALLICHE HSS-CO 8%
HSS-CO 8% Bimetal hole saws display

21013504K

ESPOSITORE
Display



23x18x50 cm

Art. 21013504K
€ 991,376

49 pcs
Ø 16÷102

Composizione
Description

Seghe	Ø 16 - 19 - 20 - 22	2x
	25 - 30 - 32 - 35	
	38 - 40 - 48 - 51	
	57 - 60 - 70 - 83	
	102	
Chiavi	5519B 14÷30	4x
	5546B 32÷152	6x
	21070202	5x

21013503K

ESPOSITORE
Display



Art. 21013503K
€ 502,389

24 pcs
Ø 16÷83

Composizione
Description

Seghe	Ø 16 - 19 - 20 - 22	1x
	25 - 27 - 29 - 30	
	32 - 35 - 38 - 40	
	44 - 51 - 54 - 60	
	64 - 70 - 76 - 83	
Chiavi	5519B 14÷30	2x
	5546B 32÷152	2x

BIMASTER

 **DENTE RINFORZATO**
REINFORCED TOOTH

 **30% PIÙ VELOCE**
30% FASTER

 **FORI PERFETTI**
PERFECT HOLES

**SISTEMA DI AGGANCIAMENTO
ULTRA RAPIDO**
ULTRA-FAST LOCKING SYSTEM



Adattatori universali

1/2" X 20 UNF
5/8" X 18 UNF
Montabili sulle seghe di tutte
le marche da 14 a 305 mm

Universal adaptors

1/2" X 20 UNF
5/8" X 18 UNF
Installable on all brands hole
saws from 14 to 305 mm

Due punte Pilota

HSS-G

L 95 mm
L 105 mm
Incluse nella confezione

Two pilot twist drills

HSS-G

L 95 mm
L 105 mm
Included into the pack

Gambo con 3 pianetti antislittamento
per la massima tenuta nel mandrino

3 flat anti slip flats
for max grip into the chuck

SEGHE A TAZZA BIMETALLICHE HSS AD ALTE PRESTAZIONI CON DENTE RINFORZATO, PER SISTEMA K-LOCK

HSS bimetal high performance hole saws,
reinforced tooth, for K-Lock system

BIMASTER

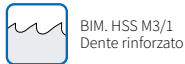
21058

HSS M3

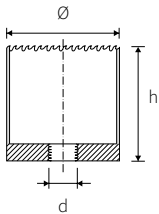
Alte prestazioni - dente rinforzato - sistema K-LOCK
High performance - reinforced tooth - K-LOCK system



Confezione
Packaging



BIM. HSS M3/1
Dente rinforzato



Ø	h
14÷17	56±1
18÷37	51±1
38÷133	44±1

Ø	pollici inch	d filetto thread	cod.	€ cad/each
16	5/8	UNF 1/2 X 20	2105801600	9,263
17	1/16		2105801700	9,263
19	3/4		2105801900	9,928
20			2105802000	9,928
21	13/16		2105802100	10,583
22	7/8		2105802200	10,583
24	15/16		2105802400	11,210
25	1"		2105802500	11,210
27	1.1/16		2105802700	12,198
29	1.1/8		2105802900	12,198
30	1.3/16		2105803000	12,930
32	1.1/4	UNF 5/8 X 18	2105803200	12,930
33	1.5/16		2105803300	13,376
35	1.3/8		2105803500	14,801
38	1.1/2		2105803800	14,801
40	1.9/16		2105804000	15,181
41	1.5/8		2105804100	15,514
43	1.11/16		2105804300	15,514
44	1.3/4		2105804400	16,853
46	1.13/16		2105804600	16,853

Ø	pollici inch	d filetto thread	cod.	€ cad/each
48	1.7/8		2105804800	17,224
51	2"		2105805100	17,832
54	2.1/8		2105805400	19,760
57	2.1/4		2105805700	20,435
60	2.3/8		2105806000	20,891
64	2.1/2		2105806400	22,534
65	2.9/16		2105806500	22,534
67	2.5/8		2105806700	24,976
68			2105806800	24,976
70	2.2/4		2105807000	24,976
73	2.7/8		2105807300	26,211
76	3"		2105807600	27,959
79	3.1/8		2105807900	27,959
83	3.1/4		2105808300	29,127
89	3.1/2		2105808900	32,395
92	3.5/8		2105809200	33,915
98	3.7/8		2105809800	34,761
102	4"		2105810200	34,761
111	4.3/8		2105811100	41,705
121	4.3/4		2105812100	47,662
127	5"		2105812700	51,177
133	5.1/4		2105813300	53,001

R ≤ 850 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Legno
Wood



Sandwich
Sandwich

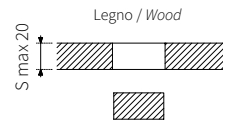


Truciolato
Chipboard

Spessore lavorabile
Material tickness workable



Acciaio / Steel



Legno / Wood

K-LOCK, KIT ALBERO A CAMBIO RAPIDO PER SEGHE A TAZZA BIMETALLICHE

K-LOCK, QUICK CHANGE ARBOR KIT
FOR BIMETAL HOLE SAWS



Art. 210704050
€ 35,000

Composizione kit:
Description:

- 1 x albero K-Lock
1 x K-Lock arbor
- 1 x punta pilota L 95 mm
1 x pilot drill L 95 mm
- 1 x punta pilota L 100 mm
1 x pilot drill L 100 mm
- 1 x adattatore 1/2" X 20 UNF
1 x adaptor 1/2" X 20 UNF
- 1 x adattatore 5/8" X 18 UNF
1 x adaptor 5/8" X 18 UNF

ADATTATORI PER ALBERO K-LOCK ADAPTERS FOR K-LOCK ARBOR



Art. 210704051
18,500

Adattatori:
Adapters:

- 2x 1/2" x 20 UNF
- 3x 5/8" x 18 UNF

UNIVERSALE - Si monta sulle seghe a tazza di tutte le marche. Per seghe da 14 a 305 mm
UNIVERSAL - It fits on hole saws of all brands. For hole saws from 14 to 305 mm

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE

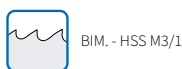
HSS bimetal hole saws

21060

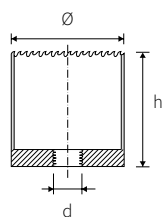
HSS M3



Confezione
Packaging



BIM. - HSS M3/1



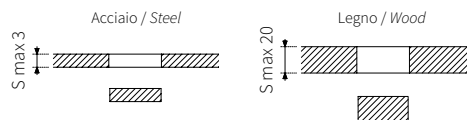
Ø	h
14÷17	57±1
19÷37	51±1
38÷305	44±1



Variabile Z 4-6

Variable Z 4-6

Spessore lavorabile
Material thickness workable



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Legno
Wood



Sandwich
Sandwich



Truciolato
Chipboard

Ø	pollici inch	d filetto thread	cod.	€ cad/each	Ø	pollici inch	d filetto thread	cod.	€ cad/each
14	9/16	UNF 1/2 x 20	2106001400	8,475	65	2.9/16		2106006500	20,627
16	5/8		2106001600	8,475	67	2.5/8		2106006700	22,857
17	11/16		2106001700	8,475	68	-		2106006800	22,857
19	3/4		2106001900	9,088	70	2.3/4		2106007000	22,857
20			2106002000	9,088	73	2.7/8		2106007300	23,990
21	13/16		2106002100	9,688	75	-		2106007500	24,929
22	7/8		2106002200	9,688	76	3"		2106007600	24,929
24	15/16		2106002400	10,260	79	3.1/8		2106007900	25,594
25	1"		2106002500	10,260	83	3.1/4		2106008300	26,664
27	1.1/16		2106002700	11,161	86	3.3/8		2106008600	27,145
29	1.1/8		2106002900	11,161	89	3.1/2		2106008900	29,649
30	1.3/16		2106003000	11,838	92	3.5/8		2106009200	31,044
32	1.1/4	UNF 5/8 x 18	2106003200	11,838	95	3.3/4		2106009500	31,044
33	1.5/16		2106003300	12,244	98	3.7/8		2106009800	31,814
35	1.3/8		2106003500	13,548	100	-		2106010000	31,814
37	1.7/16		2106003700	13,548	102	4"		2106010200	31,814
38	1.1/2		2106003800	13,548	105	4.1/8		2106010500	34,199
40	1.9/16		2106004000	13,898	108	4.1/4		2106010800	37,016
41	1.5/8		2106004100	14,199	111	4.3/8		2106011100	38,176
43	1.11/16		2106004300	14,199	114	4.1/2		2106011400	42,127
44	1.3/4		2106004400	15,425	121	4.3/4		2106012100	43,625
45	-		2106004500	15,425	127	5"		2106012700	46,847
46	1.13/16		2106004600	15,425	133	5.1/4		2106013300	48,515
48	1.7/8		2106004800	15,763	140	5.1/2		2106014000	51,384
50	-		2106005000	16,323	146	5.3/4"		2106014600	53,978
51	2"		2106005100	16,323	152	6"		2106015200	59,088
52	2.1/16		2106005200	18,084	160	6.5/16		2106016000	59,703
54	2.1/8		2106005400	18,084	168	6.5/8		2106016800	62,935
55	-		2106005500	18,084	177	6.31/32		2106017700	66,821
56	-		2106005600	18,708	200	7.7/8		2106020000	72,205
57	2.1/4		2106005700	18,708	210	8.5/16		2106021000	73,196
59	2.5/16		2106005900	19,126	220	8.3/4		2106022000	75,794
60	2.3/8		2106006000	19,126	233	9.1/8		2106023300	99,602
62	-		2106006200	20,627	250	9.7/8		2106025000	105,487
64	2.1/2		2106006400	20,627	260	10.1/4		2106026000	122,892
					265	10.1/2		2106026500	135,122
					280	11"		2106028000	168,785
					305	12"		2106030500	382,200



Art. 21068 Self
Disponibile su richiesta
On demand

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

ALBERI PER SEGHE A TAZZA BIMETAL (INTERCAMBIABILI CON QUALSIASI ALTRA MARCA)

Arbors for bimetel hole saws

ALBERI PER SEGHE BIMETAL Ø 14÷30 mm

Fit hole saws Ø 14÷30 mm

Art.
210705514



Art.
210705515
Q.C.



Art.
210705519



Art.
210705518

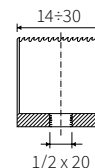


Art.
210705519
SDS



SDS - PLUS

Per seghe Fit hole saws	d mm	cod.	€ cad/each
Ø 14 ÷ 30	Ø 6,35	210705514	10,014
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515	10,712
Ø 14 ÷ 30	HEX 8,5	210705519	10,712
Ø 14 ÷ 30	HEX 11	210705518	13,338
Ø 14 ÷ 30	SDS PLUS	210705519SDS	17,342



ALBERI PER SEGHE BIMETAL Ø 32÷305 mm

Fit hole saws Ø 32÷305 mm

Art.
210705520



Art.
210705521
Q.C.



Art.
210705546



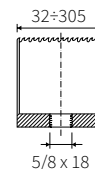
Art.
210705547



Art.
210705548
Q.C.



Per seghe Fit hole saws	d mm	cod.	€ cad/each
Ø 32 ÷ 305	HEX 11	210705520	13,821
Ø 32 ÷ 305	HEX 6,35 Q.C.	210705521	13,821
Ø 32 ÷ 305	HEX 8,5	210705546	18,862
Ø 32 ÷ 305	HEX 11	210705547	23,339
Ø 32 ÷ 305	HEX 8,5 Q.C.	210705548	18,671
Ø 32 ÷ 305	SDS PLUS	210705546SDS	30,339
Ø 32 ÷ 305	SDS PLUS	210705549SDS	24,271
Ø 32 ÷ 305	HEX 11	210705545	24,408
Ø 32 ÷ 305	HEX 16	210705573	21,435



Art.
210705546
SDS



Art.
210705549
SDS



Art.
210705546



Art.
210705545



SDS - PLUS

SDS - PLUS

Art.
21070200



Art.
21070202



Art.
21070201



Art.
21070300



Art.
21070302



Punta pilota Pilot drill	Per alberi Fit arbors	cod.	€ cad/each
Ø 6,35 x 105	5514 - 5520	21070200	5,254
	5545 - 5573 - 5518		
Ø 6,35 x 90	5519B	21070202	5,254
	5519SDSB		
Ø 6,35 x 80	5515 - 5519 - 5519SDS	21070201	5,254
	5521 - 5546 - 5546SDS		
	5547 - 5548 - 5549SDS		
Adattatore - montato su alberi 5514 - 5519 permette di portare frese da Ø 32 a Ø 210 Arbor adapter - Allows 5514 - 5519 to be used with 1.1/4" through 6" hole saws		21070300	5,164
Prolunga - HEX 11 L = 300 mm 12" extension - to be used with arbors 5518 - 5520 - 5547 - 5545		21070302	24,174

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS IN VALIGETTE DI PLASTICA

HSS Bi-metal hole saws kits in plastic cases

KIT PER ELETTRICISTI

Electrician's kit



Art. 21080201K
€ 115,637

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519 - 5546
1

Art. 21080202K
€ 98,712

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519 - 5546
1



Art. 21080207K
€ 186,146

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60

5519 - 5546
1

KIT PER IDRAULICI

Plumber's kit



Art. 21080204K
€ 104,358

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519 - 5546
1

KIT INDUSTRIALE

Industrial kit



Art. 21080206K
€ 369,477

15 pcs
Ø 19÷114

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64
76 - 83 - 92
95 - 105 - 114

5519 - 5546
1

KIT PER INSTALLATORI

Journeyman's kit



Art. 21080205K
€ 162,168

9 pcs
Ø 19÷64

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64

5519 - 5546
1
1



Art. 21080211K
€ 179,095

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64

5519 - 5546
1

Art. 21080212K
€ 239,734

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25
30 - 35 - 40
51 - 60 - 64
76 - 83

5519 - 5546
1

ESPOSITORI SEGHE A TAZZA BIMETALLICHE HSS

Bimetal hole saws display

21080504K

ESPOSITORE
Display






23x18x50 cm

Art. 21080504K
€ 726,037

49 pcs
Ø 16÷102

Composizione
Description

	Ø 16 - 19 - 20 - 22	2x
	25 - 30 - 32 - 35	
	38 - 40 - 48 - 51	
	57 - 60 - 70 - 83	
	102	
	5519 14÷30	4x
	5546 32÷210	6x
	21070201	5x

21080503K



ESPOSITORE
Display



Art. 21080503K
€ 363,859

24 pcs
Ø 16÷83

Composizione
Description

	Ø 16 - 19 - 20 - 22	1x
	25 - 27 - 29 - 30	
	32 - 35 - 38 - 40	
	44 - 51 - 54 - 60	
	64 - 70 - 76 - 83	
	5519 14÷30	2x
	5546 32÷210	2x

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE AD ALBERO FISSO

One piece HSS bimetal hole saws with fixed arbor

21061

HSS M3

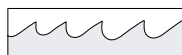
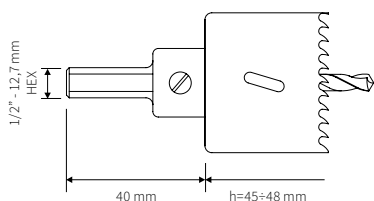
Albero fisso
Fixed arbor



Confezione
Packaging



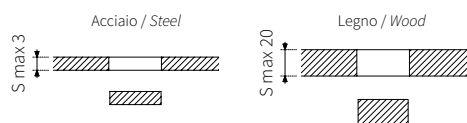
BIM. - HSS M3/1



Variabile Z 4-6

Variable Z 4-6

Spessore lavorabile
Material thickness workable



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Plastica
Plastic



Legno
Wood



Multistrato
Multilayer



Sandwich
Sandwich



Truciolato
Chipboard

Ø	Ø pollici / inch	cod.	€ cad/each
16	5/8	2106101600	13,143
19	3/4	2106101900	14,140
21	13/16	2106102100	14,844
22	7/8	2106102200	15,267
24	15/16	2106102400	15,690
25	1"	2106102500	16,252
27	1.1/16	2106102700	16,686
29	1.1/8	2106102900	17,966
30	1.3/16	2106103000	18,388
32	1.1/4	2106103200	18,952
33	1.5/16	2106103300	19,234
35	1.3/8	2106103500	19,655
38	1.1/2	2106103800	20,499
40	1.9/16	2106104000	20,793
41	1.5/8	2106104100	21,076
44	1.3/4	2106104400	21,778
48	1.7/8	2106104800	22,905
51	2"	2106105100	23,762
54	2.1/8	2106105400	24,761
57	2.1/4	2106105700	25,182
60	2.3/8	2106106000	26,450
64	2.1/2	2106106400	27,588
67	2.5/8	2106106700	29,137
70	2.3/4	2106107000	30,275
76	3"	2106107600	32,258
79	3.1/8	2106107900	33,102
83	3.1/4	2106108300	34,383
89	3.1/2	2106108900	37,070
92	3.5/8	2106109200	37,774
95	3.3/4	2106109500	38,912
102	4"	2106110200	40,895

Punta pilota

Pilot drill



Ø	cod.	€ cad/each
Ø 6,35 x 80	21070201	5,254

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE

HSS bimetal hole saws

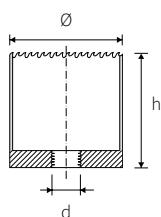
lite

21067

HSS M3



Confezione
Packaging



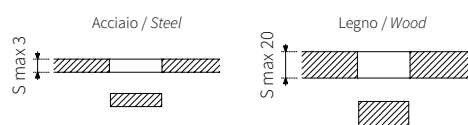
Ø	h
14÷17	57±1
19÷37	51±1
38÷210	44±1



Variabile Z 4-6

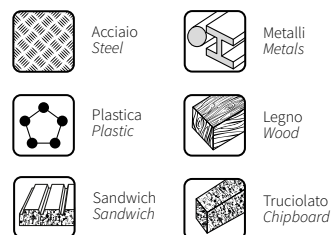
Variable Z 4-6

Spessore lavorabile
Material tickness workable



R ≤ 750 N/mm²

Applicazioni
Applications



Ø	inch	d filetto / thread	cod.	€ cad/each	Ø	inch	d filetto / thread	cod.	€ cad/each
14	9/16	UNF 1/2 x 20	2106701400	6,780	60	2.3/8		2106706000	15,301
16	5/8		2106701600	6,780	62	-		2106706200	16,502
17	11/16		2106701700	6,780	64	2.1/2		2106706400	16,502
19	3/4		2106701900	7,270	65	2.9/16		2106706500	16,502
20			2106702000	7,270	67	2.5/8		2106706700	18,286
21	13/16		2106702100	7,750	68	-		2106706800	18,286
22	7/8		2106702200	7,750	70	2.3/4		2106707000	18,286
24	15/16		2106702400	8,208	73	2.7/8		2106707300	19,192
25	1"		2106702500	8,208	75	-		2106707500	19,943
27	1.1/16		2106702700	8,929	76	3"		2106707600	19,943
29	1.1/8		2106702900	8,929	79	3.1/8		2106707900	20,475
30	1.3/16		2106703000	9,471	83	3.1/4		2106708300	21,331
32	1.1/4	UNF 5/8 x 18	2106703200	9,471	86	3.3/8		2106708600	21,716
33	1.5/16		2106703300	9,795	89	3.1/2		2106708900	23,719
35	1.3/8		2106703500	10,838	92	3.5/8		2106709200	24,835
37	1.7/16		2106703700	10,838	95	3.3/4		2106709500	24,835
38	1.1/2		2106703800	10,838	98	3.7/8		2106709800	25,451
40	1.9/16		2106704000	11,118	100	-		2106710000	25,451
41	1.5/8		2106704100	11,359	102	4"		2106710200	25,451
43	1.11/16		2106704300	11,359	105	4.1/8		2106710500	27,359
44	1.3/4		2106704400	12,340	108	4.1/4		2106710800	29,613
45	-		2106704500	12,340	111	4.3/8		2106711100	30,541
46	1.13/16		2106704600	12,340	114	4.1/2		2106711400	33,701
48	1.7/8		2106704800	12,610	121	4.3/4		2106712100	34,900
50	-		2106705000	13,058	127	5"		2106712700	37,478
51	2"		2106705100	13,058	133	5.1/4		2106713300	38,812
52	2.1/16		2106705200	14,467	140	5.1/2		2106714000	41,108
54	2.1/8		2106705400	14,467	146	5.3/4"		2106714600	43,183
55	-		2106705500	14,467	152	6"		2106715200	47,270
56	-		2106705600	14,967	160	6.5/16		2106716000	47,762
57	2.1/4		2106705700	14,967	168	6.5/8		2106716800	50,348
59	2.5/16		2106705900	15,301	177	6.31/32		2106717700	53,457
					190	7.1/2		2106719000	54,783
					200	7.7/8		2106720000	57,125
					210	8.5/16		2106721000	58,557

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

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ALBERI PER SEGHE A TAZZA BIMETAL (INTERCAMBIABILI CON QUALSIASI ALTRA MARCA)

Arbors for bimetel hole saws

ALBERI PER SEGHE BIMETAL Ø 14÷30 mm

Fit hole saws Ø 14÷30 mm

Art.
210705514



Art.
210705515
Q.C.



Art.
210705519



Art.
210705518

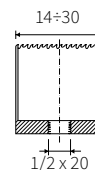


Art.
210705519
SDS



SDS - PLUS

Per seghe Fit hole saws	d mm	cod.	€ cad/each
Ø 14 ÷ 30	Ø 6,35	210705514	10,014
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515	10,712
Ø 14 ÷ 30	HEX 8,5	210705519	10,712
Ø 14 ÷ 30	HEX 11	210705518	13,338
Ø 14 ÷ 30	SDS PLUS	210705519SDS	17,342



ALBERI PER SEGHE BIMETAL Ø 32÷305 mm

Fit hole saws Ø 32÷305 mm

Art.
210705520



Art.
210705521
Q.C.



Art.
210705546



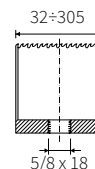
Art.
210705547



Art.
210705548
Q.C.



Per seghe Fit hole saws	d mm	cod.	€ cad/each
Ø 32 ÷ 305	HEX 11	210705520	13,821
Ø 32 ÷ 305	HEX 6,35 Q.C.	210705521	13,821
Ø 32 ÷ 305	HEX 8,5	210705546	18,862
Ø 32 ÷ 305	HEX 11	210705547	23,339
Ø 32 ÷ 305	HEX 8,5 Q.C.	210705548	18,671
Ø 32 ÷ 305	SDS PLUS	210705546SDS	30,339
Ø 32 ÷ 305	SDS PLUS	210705549SDS	24,271
Ø 32 ÷ 305	HEX 11	210705545	24,408
Ø 32 ÷ 305	HEX 16	210705573	21,435



Art.
210705546
SDS



Art.
210705549
SDS



Art.
210705546



Art.
210705545



SDS - PLUS

SDS - PLUS

Art.
21070200



Art.
21070202



Art.
21070201



Art.
21070300



Art.
21070302



Punta pilota Pilot drill	Per alberi Fit arbors	cod.	€ cad/each
Ø 6,35 x 105	5514 - 5520	21070200	5,254
	5545 - 5573 - 5518		
Ø 6,35 x 90	5519B	21070202	5,254
	5519SDSB		
Ø 6,35 x 80	5515 - 5519 - 5519SDS	21070201	5,254
	5521 - 5546 - 5546SDS		
	5547 - 5548 - 5549SDS		
	Adattatore - montato su alberi 5514 - 5519 permette di portare frese da Ø 32 a Ø 210 Arbor adapter - Allows 5514 - 5519 to be used with 1.1/4" through 6" hole saws		
Prolunga - HEX 11 L = 300 mm 12" extension - to be used with arbors 5518 - 5520 - 5547 - 5545		21070302	24,174

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS IN VALIGETTE DI PLASTICA

HSS Bi-metal hole saws kits in plastic cases

KIT PER ELETTRICISTI

Electrician's kit



Art. 21080201E
€ 92,509

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519 - 5546

1

Art. 21080202E
€ 78,970

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519 - 5546

1



Art. 21080207E
€ 148,917

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60

5519 - 5546

1

21070201

KIT PER IDRAULICI

Plumber's kit



Art. 21080204E
€ 83,487

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519 - 5546

1

KIT PER INSTALLATORI

Journeyman's kit



Art. 21080211E
€ 143,276

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64

5519 - 5546

1

Art. 21080212E
€ 191,787

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25
30 - 35 - 40
51 - 60 - 64
76 - 83

5519 - 5546

1

ESPOSITORI

Display



23x18x50 cm

Art. 21080504E
€ 580,829

49 pcs
Ø 16÷102

Composizione
Description

Ø 16 - 19 - 20 - 22 **2x**
25 - 30 - 32 - 35
38 - 40 - 48 - 51
57 - 60 - 70 - 83
102

5519 14÷30 **4x**
5546 32÷210 **6x**

21070201 **5x**



Art. 21080503E
€ 291,087

24 pcs
Ø 16÷83

Composizione
Description

Ø 16 - 19 - 20 - 22 **1x**
25 - 27 - 29 - 30
32 - 35 - 38 - 40
44 - 51 - 54 - 60
64 - 70 - 76 - 83

5519 14÷30 **2x**
5546 32÷210 **2x**

SEGHE A TAZZA BIMETALLICHE HSS-CO 8% DI NUOVA GENERAZIONE "XTREME"

Ultimate bimetal hole saws



21073

HSS-CO 8%

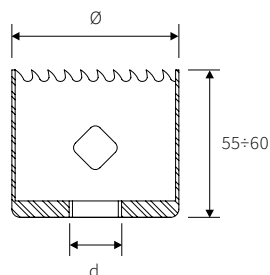
AISI M42

Alte prestazioni - dente rinforzato
High performance - reinforced tooth

XTREME

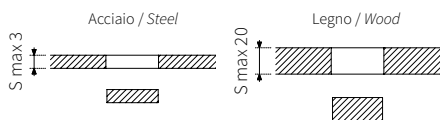


Confezione
Packaging



Z 4÷6 - BIM. AISI M42 - Co8%

Spessore lavorabile
Material tickness workable



$R \leq 1000 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Legno
Wood



Sandwich
Sandwich



Truciolato
Chipboard



Fondo rinforzato
Solid steel plated

Larghe aperture per un'agevole
rimozione del disco
Large openings provide for easy
plug ejection

Ø	pollici / inch	d filetto / thread	pcs.	cod.	€ cad/each
14	9/16	UNF 1/2 x 20	1	2107301400	13,648
16	5/8		1	2107301600	13,648
17	11/16		1	2107301700	13,648
19	3/4		1	2107301900	14,635
20	-		1	2107302000	14,635
21	13/16		1	2107302100	15,602
22	7/8		1	2107302200	15,602
24	15/16		1	2107302400	16,523
25	1"		1	2107302500	16,522
27	1.1/16		1	2107302700	17,973
29	1.1/8		1	2107302900	17,974
30	1.3/16		1	2107303000	19,064
32	1.1/4	UNF 5/8 x 18	1	2107303200	19,064
33	1.5/16		1	2107303300	19,718
35	1.3/8		1	2107303500	20,000
37	1.7/16		1	2107303700	20,491
38	1.1/2		1	2107303800	20,491
40	1.9/16		1	2107304000	21,021
41	1.5/8		1	2107304100	21,477
43	1.11/16		1	2107304300	21,476
44	1.3/4		1	2107304400	23,330
45	-		1	2107304500	23,330
46	1.13/16		1	2107304600	23,330
48	1.7/8		1	2107304800	23,841
50	-		1	2107305000	24,688
51	2"		1	2107305100	24,688
52	2.1/16		1	2107305200	27,352
54	2.1/8		1	2107305400	27,352
55	-		1	2107305500	22,863
57	2.1/4		1	2107305700	27,010
59	2.5/16		1	2107305900	27,613
60	2.3/8		1	2107306000	27,613
64	2.1/2		1	2107306400	29,780
65	2.9/16		1	2107306500	29,780
67	2.5/8		1	2107306700	33,000
68	-		1	2107306800	33,000
70	2.3/4		1	2107307000	33,000
73	2.7/8		1	2107307300	34,636
75	-		1	2107307500	35,991
76	3"		1	2107307600	35,991
79	3.1/8		1	2107307900	36,951
83	3.1/4		1	2107308300	38,496
86	3.3/8		1	2107308600	39,191
89	3.1/2		1	2107308900	42,806
92	3.5/8		1	2107309200	44,819
95	3.3/4		1	2107309500	44,819
98	3.7/8		1	2107309800	45,932
100	-		1	2107310000	45,932
102	4"		1	2107310200	45,932
105	4.1/8		1	2107310500	49,375
108	4.1/4		1	2107310800	53,442
111	4.3/8		1	2107311100	55,117
114	4.1/2		1	2107311400	60,821
121	4.3/4		1	2107312100	62,983
127	5"		1	2107312700	67,635
140	5.1/2		1	2107314000	74,185
146	-		1	2107314600	77,931
152	6"		1	2107315200	85,309

Ø	d mm	cod.	€ cad/each
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515B	11,911
Ø 32 ÷ 152	HEX 8,5 Q.C.	210705548B	18,671
	6,35 x 90	21070202	5,254

SEGHE A TAZZA BIMETALLICHE HSS-CO 8% A DENTATURA VARIABILE "BLU - MOL"

HSS - Co 8% bimetal hole saws

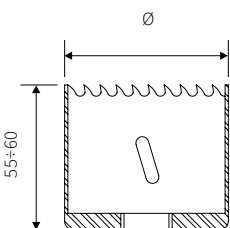
21065

HSS-CO 8%

AIISI M42

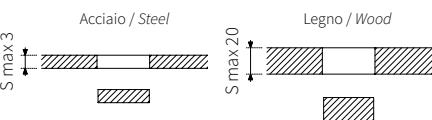


Confezione
Packaging



Z 4÷6 - BIM. AISI M42 - Co8%

Spessore lavorabile
Material tickness workable



R ≤ 1000 N/mm²

Applicazioni
Applications



Ø	Ø pollici / inch	pcs.	cod.	€ cad/each
14	9/16	1	2106501400	12,407
16	5/8	1	2106501600	12,407
17	11/16	1	2106501700	12,407
19	3/4	1	2106501900	13,305
20	-	1	2106502000	13,305
21	13/16	1	2106502100	14,183
22	7/8	1	2106502200	14,183
24	15/16	1	2106502400	15,021
25	1"	1	2106502500	15,021
27	1.1/16	1	2106502700	16,340
29	1.1/8	1	2106502900	16,339
30	1.3/16	1	2106503000	17,331
32	1.1/4	1	2106503200	17,331
33	1.5/16	1	2106503300	17,926
35	1.3/8	1	2106503500	18,181
37	1.7/16	1	2106503700	18,628
38	1.1/2	1	2106503800	18,629
40	1.9/16	1	2106504000	19,110
41	1.5/8	1	2106504100	19,524
43	1.11/16	1	2106504300	19,523
44	1.3/4	1	2106504400	21,210
45	-	1	2106504500	21,210
46	1.13/16	1	2106504600	21,209
48	1.7/8	1	2106504800	21,674
50	-	1	2106505000	22,444
51	2"	1	2106505100	22,444
52	2.1/16	1	2106505200	24,866
54	2.1/8	1	2106505400	24,866
55	-	1	2106505500	24,137
57	2.1/4	1	2106505700	25,724
59	2.5/16	1	2106505900	26,299
60	2.3/8	1	2106506000	26,298
64	2.1/2	1	2106506400	28,362
65	2.9/16	1	2106506500	28,362
67	2.5/8	1	2106506700	31,428
68	-	1	2106506800	31,428
70	2.3/4	1	2106507000	31,428
73	2.7/8	1	2106507300	32,986
75	-	1	2106507500	34,277
76	3"	1	2106507600	34,278
79	3.1/8	1	2106507900	35,192
83	3.1/4	1	2106508300	36,663
86	3.3/8	1	2106508600	37,324
89	3.1/2	1	2106508900	40,767
92	3.5/8	1	2106509200	42,685
95	3.3/4	1	2106509500	42,686
98	3.7/8	1	2106509800	43,744
100	-	1	2106510000	43,744
102	4"	1	2106510200	43,744
105	4.1/8	1	2106510500	47,024
108	4.1/4	1	2106510800	50,897
111	4.3/8	1	2106511100	52,492
114	4.1/2	1	2106511400	57,925
121	4.3/4	1	2106512100	59,984
127	5"	1	2106512700	64,414
140	5.1/2	1	2106514000	70,653
146	5.3/4	1	2106514600	74,219
152	6"	1	2106515200	81,246

Seghe bimetalliche HSS - Co 8% a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

ALBERI PER SEGHE A TAZZA BIMETAL (INTERCAMBIABILI CON QUALSIASI ALTRA MARCA)

Arbors for bimetel hole saws

ALBERI PER SEGHE BIMETAL Ø 14÷30 MM

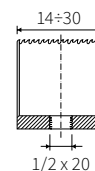
Fit hole saws Ø 14÷30

Art. 210705514B Art. 210705515B Q.C. Art. 210705519B Art. 210705518B Art. 210705519 SDSB



SDS - PLUS

Per seghe Fit hole saws	d mm	cod.	€ cad/each
Ø 14 ÷ 30	Ø 6,35	210705514B	10,014
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515B	11,911
Ø 14 ÷ 30	HEX 8,5	210705519B	11,911
Ø 14 ÷ 30	HEX 11	210705518B	13,338
Ø 14 ÷ 30	SDS PLUS	210705519SDSB	17,342



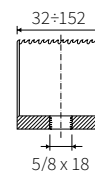
ALBERI PER SEGHE BIMETAL Ø 32÷152 MM

Fit hole saws Ø 32÷152

Art. 210705520B Art. 210705521B Q.C. Art. 210705546B Art. 210705547B Art. 210705548B Q.C.



Per seghe Fit hole saws	d mm	cod.	€ cad/each
Ø 32 ÷ 152	HEX 11	210705520B	13,821
Ø 32 ÷ 152	HEX 6,35 Q.C.	210705521B	13,821
Ø 32 ÷ 152	HEX 8,5	210705546B	20,841
Ø 32 ÷ 152	HEX 11	210705547B	23,339
Ø 32 ÷ 152	HEX 8,5 Q.C.	210705548B	18,671
Ø 32 ÷ 152	SDS PLUS	210705546SDSB	30,339
Ø 32 ÷ 152	SDS PLUS	210705549SDSB	24,271
Ø 32 ÷ 152	HEX 11	210705545B	27,133
Ø 32 ÷ 152	HEX 16	210705573B	22,560



Art. 210705546 SDSB Art. 210705549 SDSB Art. 210705545B Art. 210705573B



SDS - PLUS

SDS - PLUS

Art. 21070203 Art. 21070202 Art. 21070300 Art. 21070302



Punta pilota Pilot drill	Per alberi Fit arbors	cod.	€ cad/each
Ø 6,35 x 115	5514B - 5520B	21070203	5,254
	5545B - 5573B - 5518B		
Ø 6,35 x 90	5515B - 5519B - 5519SDSB	21070202	5,254
	5521B - 5546B - 5546SDSB		
	5547B - 5548B - 5549SDSB		
Adattatore - montato su alberi 5514B - 5519B permette di portare frese da Ø 32 a Ø 152 Arbor adapter - Allows 5514B - 5519B to be used with 1.1/4" through 6" hole saws		21070300	5,164
Prolunga - HEX 11 L = 300 mm 12" extension - to be used with arbors 5518B - 5520B - 5547B - 5545B		21070302	24,174

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE "BLU-MOL" IN VALIGETTE DI PLASTICA

Bi-metal hole saws kits in plastic cases

KIT PER ELETTRICISTI Electrician's kit



Art. 21080201
€ 185,681

6 pcs
Ø 22=64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519B - 5546B

1

KIT METRICO PER ELETTRICISTI Metric electrician's Kit



Art. 21080202
€ 170,203

6 pcs
Ø 16=51

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519B - 5546B

1

KIT PER IDRAULICI Plumber's Kit



Art. 21080204
€ 185,681

6 pcs
Ø 19=57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519B - 5546B

1

KIT PER INSTALLATORI Journeyman's Kit



Art. 21080205
€ 247,579

9 pcs
Ø 19=64

Composizione
Description

Ø 19 - 22 - 29
38 - 38 - 44
51 - 57 - 64

5519B - 5546B

1

**SEGHE A TAZZA BIMETALLICHE HSS-CO 8%
A PASSO FISSO PER LAMIERE SOTTILI**
AISI M42 - Co8% constant pitch Bimetal hole saws for metal sheets

21069

HSS-CO 8%

AISI M42

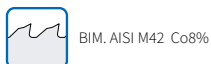
Speciale lamiera sottili
Special for thin sheets



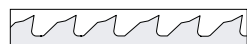
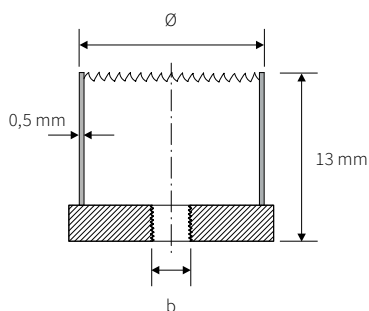
Confezione
Packaging



Ø	Ø pollici / inch	Attacco Shank	pcs.	cod.	€ cad/each
16	5/8	1/4"	1	210691600	35,022
19	3/4	1/4"	1	210691900	35,134
20	-	1/4"	1	210692000	35,227
22	7/8	1/4"	1	210692200	35,376
25	1"	1/4"	1	210692500	34,242
27	1.1/16	1/4"	1	210692700	35,581
29	1.1/8	1/4"	1	210692900	36,081
30	1.3/16	1/4"	1	210693000	35,678
32	1.1/4	1/4"	1	210693200	36,836
35	1.3/8	1/4"	1	210693500	39,203
38	1.1/2	1/4"	1	210693800	40,327



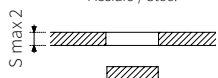
BIM. AISI M42 Co8%



Z = 8

Spessore lavorabile
Material thickness workable

Acciaio / Steel



R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys



Alluminio
Aluminum



Plastica
Plastic

Speciali per trapani a batteria
e avvitatori a impuls
Special for cordless power drills
and impact power tools



Il potere della lama fine:
Minimizza il consumo delle batterie e produce meno trucioli
per un taglio più veloce e sicuro

The power of the thin blade:
Lightweight blades maximize the use of chargeable impact
drivers and drills by using a reduced motor and operation
load. Sheet Metal Hole Saws produce fewer chips
for easier and safer drilling



Fermo di sicurezza
Safety collar stop



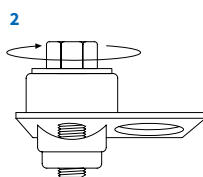
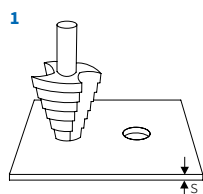
Il sottile spessore della lama e la dentatura costante in AISI M42 le rendono particolarmente adatte al taglio di lamiera sottili di acciaio inox, acciai legati e non, alluminio, metalli non ferrosi, plastica.

The thin blade thickness and the AISI M42 constant pitch make these saws special for cutting into thin stainless steel sheet, alloyed steel and non - alloyed steel, non - ferrous metals and plastic.

PUNZONI STANDARD CON CUSCINETTO

Standard ball bearing punches

26070



Ø	Pg/M	S	cod.	cad/each	€	Ø	Pg/M	S	cod.	cad/each	€
10		1,5	2607001000	81,971		37	Pg 29	2	2607003700	107,708	
11		1,5	2607001100	81,971		38		2	2607003800	107,708	
12		1,5	2607001200	81,971		39		2	2607003900	130,460	
12,5	Pg 7 M 12x1,5	1,5	2607001250	81,971		40		2	2607004000	130,460	
13		1,5	2607001300	81,971		40,5	M 40x1,5	3	2607004050	130,460	
14		1,5	2607001400	91,828		41		2	2607004100	130,460	
15		1,5	2607001500	91,828		42		2	2607004200	142,430	
15,2	Pg 9	1,5	2607001520	91,828		43		2	2607004300	142,430	
16		2	2607001600	67,486		44		2	2607004400	142,430	
16,5	M 16x1,5	2	2607001650	67,486		45		2	2607004500	152,299	
17		2	2607001700	67,486		46		2	2607004600	152,299	
18		2	2607001800	67,486		47	Pg 36	2	2607004700	152,299	
18,6	Pg 11	2	2607001860	71,776		48		2	2607004800	164,998	
19		2	2607001900	71,776		50		2	2607005000	164,998	
20		2	2607002000	71,776		50,5	M 50x1,5	4	2607005050	180,515	
20,5	Pg 13,5 M 20x1,5	2	2607002050	71,776		51		3	2607005100	180,515	
21		2	2607002100	71,776		52		3	2607005200	180,515	
22		2	2607002200	76,014		52,5		3	2607005250	266,528	
22,5	Pg 16	2	2607002250	76,014		54	Pg 42	3	2607005400	193,200	
23		2	2607002300	76,014		55		3	2607005500	193,200	
24		2	2607002400	76,014		57		3	2607005700	205,886	
25		2	2607002500	84,436		58		3	2607005800	205,886	
25,5	M 25x1,5	2	2607002550	84,436		59		3	2607005900	205,886	
26		2	2607002600	84,436		60	Pg 48	3	2607006000	224,218	
27		2	2607002700	84,436		60,5		3	2607006050	331,405	
28		2	2607002800	88,764		61		3	2607006100	224,218	
28,3	Pg 21	2	2607002830	88,764		62		3	2607006200	224,218	
29		2	2607002900	88,764		63		3	2607006300	273,581	
30		2	2607003000	88,764		63,5	M 63x1,5	3	2607006350	273,581	
30,5		2	2607003050	90,955		64		3	2607006400	273,581	
32		2	2607003200	90,955		65		3	2607006500	273,581	
32,5	M 32x1,5	2	2607003250	99,117		70		3,5	2607007000	344,092	
33		2	2607003300	99,117		73		3,5	2607007300	403,324	
34		2	2607003400	99,117		75		3,5	2607007500	403,324	
35		2	2607003500	99,117		80		3,5	2607008000	480,889	
36		2	2607003600	107,708		85		3,5	2607008500	689,591	
						89		3,5	2607008900	700,883	
						102		3,5	2607010200	981,505	

26071

TIRANTI CON CUSCINETTI

Draw stud



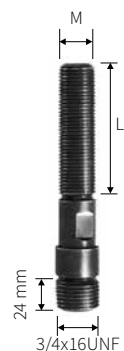
Per punzoni For punches	M	a	cod.	cad/each	€
Ø 10÷13	6x1	5	2607106X1	35,648	
Ø 14÷15.2	8x1	13	2607108X1	43,569	
Ø 16÷38	10x1	17	2607110X1	21,197	
Ø 39÷50	12x1,5	19	2607112X15	27,011	
Ø 51÷62	16x1,5	24	2607116X15	31,372	
Ø 66÷85	20x1,5	30	2607120X15	39,816	
Ø 86÷102	24x1,5	36	2607124X15	62,227	

a = Dimensione della chiave per la testa del tirante

TIRANTI PER POMPA IDRAULICA

Draw stud for hydraulic pump

26084



Per punzoni For punches	M	L ¹	cod.	cad/each	€
Ø14÷15,2	8 x 1	38	2608408x1	60,641	
Ø16÷38	10 x 1	40	2608410x1	60,641	
Ø39÷50	12 x 1,5	50	2608412x15	60,641	
Ø51÷62	16 x 1,5	60	2608416x15	60,641	
Ø63÷85	20 x 1,5	73	2608420x15	76,156	
Ø89÷102	24 x 1,5	81	2608424x15	83,197	

Applicazioni
Applications



Adatti per fori precisi in lamiere di acciaio, acciaio inox, tutti i metalli, plastica
For precise holes in steel and stainless steel metal sheets, metals, plastics

ASSORTIMENTI PUNZONI
Set of ball bearing punches

ASSORTIMENTI PUNZONI
Set of ball bearing punches



Utilizzo
con chiave
To be used
with wrench

Art. 26085100
€ 406,412

Composizione
Description

Pg 7 - Pg 29

Ø 12,5 - 15,2 - 18,6
20,5 - 22,5 - 28,3
37



Utilizzo
con chiave
To be used
with wrench

Art. 26085110
€ 1.205,735

Composizione
Description

Pg 7 - Pg 48

Ø 12,5 - 15,2 - 18,6
20,5 - 22,5 - 28,3
37 - 47 - 54 - 60

Art. 26085111
€ 1.027,582

Composizione
Description

M 12x1,5 - M 63x1,5

Ø 12,5 - 16,5 - 20,5
25,5 - 32,5 - 40,5
50,5 - 63,5



Ø 7=21 mm



Utilizzo con pompa
idraulica
To be used with
hydraulic pump

Art. 26085112
€ 1.762,824

Composizione
Description

Pg 9 - Pg 48

Ø 15,2 - 18,6 - 20,5
22,5 - 28,3 - 37
47 - 54 - 60

Art. 26085113
€ 1.475,880

Composizione
Description

M 16x1,5 - M 63x1,5

Ø 16,5 - 20,5 - 25,5
32,5 - 40,5 - 50,5
63,5

ASSORTIMENTI PUNZONI

Set of ball bearing punches

ASSORTIMENTI PUNZONI CON POMPA IDRAULICA

Set of ball bearing punches with hydraulic pump



Utilizzo
con pompa
idraulica
*To be used with
hydraulic pump*

Art. 26085120
€ 1.879,248

Composizione
Description

Pg 9 - Pg 29

Ø 15,2 - 18,6 - 20,5
22,5 - 28,3 - 37

Pompa/Pump
Art. 2607514

Art. 26085121
€ 1.879,248

Composizione
Description

M 16x1,5 - M 40x1,5

Ø 16,5 - 20,5 - 25,5
32,5 - 40,5

Pompa/Pump
Art. 2607514

POMPA IDRAULICA

Hydraulic pump



Art. 2607514
€ 1.598,320

Pompa idraulica manuale a testa orientabile (600 bar)
Utilizzo con punzoni fino a 63,5 mm - Contiene 4 tiranti e 4 spessori.
Hydraulic pump with revolving head - With 4 drawstud and 4 shims.



Art. 2607515
€ 2.890,937



In esaurimento
To be discontinued

Pompa idraulica manuale (700 bar)
Utilizzo con punzoni fino a 150 mm. Lunghezza tubo: 0,9 m
Hand Hydraulic pump.



PUNTE A GRADINO E SVASATORI

SUBLAND TWIST DRILLS AND COUNTERSINKS

PUNTE A GRADINO PER FORI PASSANTI DI SEDI VITI - 180°

Subland twist drills for through screw holes - 180°

01103

HSS

DIN 8376

180° - Grado fine
180° - Fine grade



Eliche indipendenti
Independent spirals

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



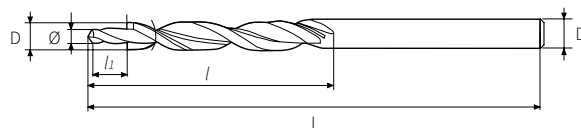
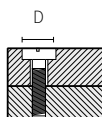
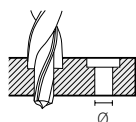
Alluminio
Aluminum



Confezione
Packaging



Vite Thread	Ø	D	l ₁	l	L	cod.	€ cad/each
M 3	3,4	6	9	57	93	011030300	38,754
4	4,5	8	11	75	117	011030400	43,604
5	5,5	10	13	87	133	011030500	53,304
6	6,6	11	15	94	142	011030600	62,980
8	9	15	19	114	169	011030800	78,476
10	11	18	23	130	191	011031000	117,254



01059

HSS

DIN 8376 SERIE CORTA

180° - Grado fine
180° - Fine grade

Elica singola
Single spiral

Applicazioni
Applications



Acciaio
Steel



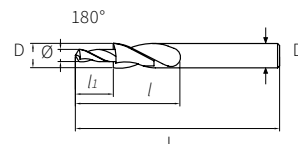
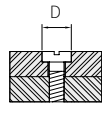
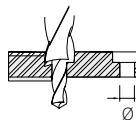
Metalli
Metals



Confezione
Packaging



Vite Thread	Ø	D	l ₁	l	L	cod.	€ cad/each
M 3	3,4	6	9	28	66	010590300	17,472
4	4,5	8	11	37	79	010590400	21,850
5	5,5	10	13	43	89	010590500	32,773
6	6,6	11	15	47	95	010590600	48,066
8	9,0	15	19	56	111	010590800	69,903
10	11,0	18	23	62	123	010591000	109,235



01104

HSS

DIN 8377 CODOLO CONICO

180° - Grado fine
180° - Fine grade



Eliche indipendenti
Independent spirals

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



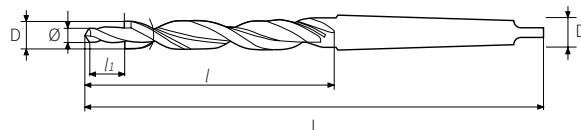
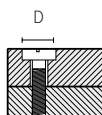
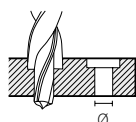
Alluminio
Aluminum



Confezione
Packaging



Vite Thread	Ø	D	l ₁	l	L	MK	cod.	€ cad/each
M 5	5,5	10	13	87	168	1	011040500	78,951
6	6,6	11	15	94	175	1	011040600	82,890
8	9	15	19	114	212	2	011040800	111,602
10	11	18	23	130	228	2	011041000	146,889
12	13,5	20	27	140	238	2	011041200	182,296
14	15,5	24	31	160	281	3	011041400	222,952
16	17,5	26	35	165	286	3	011041600	262,300
18	20	30	39	175	296	3	011041800	304,268
20	22	33	43	185	334	4	011042000	354,101



FRESE CON PERNO GUIDA PER FORI PASSANTI DI SEDI VITI - 180° Deburring tools for through screw holes - 180°

01273

HSS

DIN 373

180° - Grado fine 180° - Fine grade

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



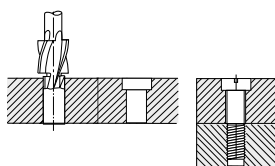
Alluminio
Aluminum



Confezione
Packaging



Vite Thread	Ø	d ¹	L	d	cod.	€ cad/each
M 3	6	3,2	71	5	0127303	21,366
4	8	4,3	71	5	0127304	21,366
5	10	5,3	80	8	0127305	21,366
6	11	6,4	80	8	0127306	22,173
8	15	8,4	100	12,5	0127308	35,635
10	18	10,5	100	12,5	0127310	42,772
12	20	13,0	100	12,5	0127312	46,721



Grado fine per
viteria/bulloneria di
precisione.
*Fine grade to fit
precision screwing.*



Art. 01275100
€ 190,384

6 pcs
M 3÷10

01274

HSS

DIN 373

180° - Grado medio 180° - Medium grade

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



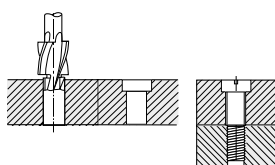
Alluminio
Aluminum



Confezione
Packaging



Vite Thread	Ø	d ¹	L	d	cod.	€ cad/each
M 3	6	3,4	71	5	0127403	21,366
4	8	4,5	71	5	0127404	21,366
5	10	5,5	80	8	0127405	21,366
6	11	6,6	80	8	0127406	22,173
8	15	9,0	100	12,5	0127408	35,635
10	18	11,0	100	12,5	0127410	42,772
12	20	14,0	100	12,5	0127412	49,180



Grado medio
per meccanica standard.
*Medium grade
to fit standard coupling.*



Art. 01275101
€ 190,384

6 pcs
M 3÷10

01277

HSS

TiAlN

DIN 373

180° - Grado medio 180° - Medium grade

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



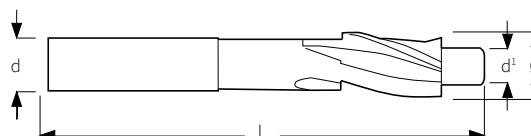
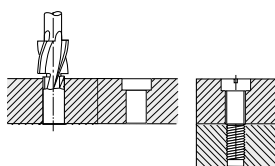
Alluminio
Aluminum



Confezione
Packaging



Vite Thread	Ø	d ¹	L	d	cod.	€ cad/each
M 3	6	3,4	71	5	0127703	25,613
4	8	4,5	71	5	0127704	31,524
5	10	5,5	80	8	0127705	32,799
6	11	6,6	80	8	0127706	39,404
8	15	9,0	100	12,5	0127708	56,673
10	18	11,0	100	12,5	0127710	68,146
12	20	14,0	100	12,5	0127712	90,400



PUNTE A GRADINO PER FORI PASSANTI DI SEDI VITI - 90°

Subland twist drills for through screw holes

01101

HSS

DIN 8374

90° - Grado fine
90° - Fine grade



Eliche
independent
Independent
spirals

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



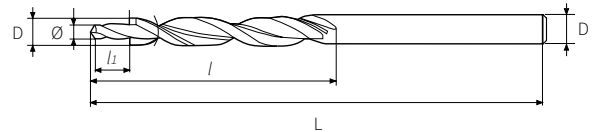
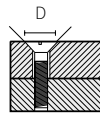
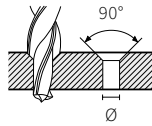
Alluminio
Aluminum



Confezione
Packaging



Vite Thread	Ø	D	l ₁	l	L	cod.	€ cad/each
M 3	3,2	6	9	57	93	011010300	44,052
4	4,3	8	11	75	117	011010400	50,527
5	5,3	10	13	87	133	011010500	63,782
6	6,4	11,5	15	94	142	011010600	73,420
8	8,4	15	19	114	169	011010800	124,335
10	10,5	19	23	135	198	011011000	192,796



01058

HSS

DIN 8374 SERIE CORTA

90° - Grado fine
90° - Fine grade

Elica singola
Single spiral

Applicazioni
Applications



Acciaio
Steel



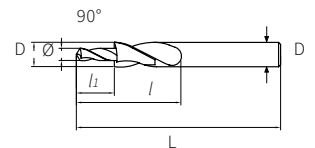
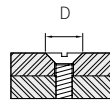
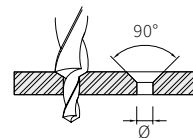
Metalli
Metals



Confezione
Packaging



Vite Thread	Ø	D	l ₁	l	L	cod.	€ cad/each
M 3	3,2	6	9	28	66	010580300	17,472
4	4,3	8	11	37	79	010580400	21,850
5	5,3	10	13	43	89	010580500	32,773
6	6,4	11,5	15	47	95	010580600	48,066
8	8,4	15	19	56	111	010580800	69,903
10	10,5	19	23	62	123	010581000	109,235



01102

HSS

DIN 8375 CODOLO CONICO

90° - Grado fine
90° - Fine grade



Eliche
independent
Independent
spirals

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



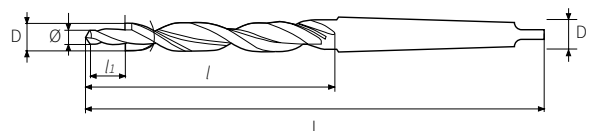
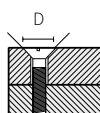
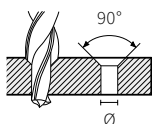
Alluminio
Aluminum



Confezione
Packaging



Vite Thread	Ø	D	l ₁	l	L	M.K.	cod.	€ cad/each
M 5	5,5	11	13	94	175	1	011020500	85,570
6	6,6	13	15	101	182	1	011020600	114,986
8	9	17,2	19	130	228	2	011020800	146,889
10	11	21,5	23	150	248	2	011021000	203,286



PUNTE A GRADINO E FRESE PER PREFORI DI FILETTATURA

Subland twist drills and deburring tools for thread core holes

01117

HSS

DIN 8378

90° - Per prefiori di filettature
90° - For thread core hole



Eliche indipendenti
Independent spirals

Applicazioni
Applications



Acciaio
Steel



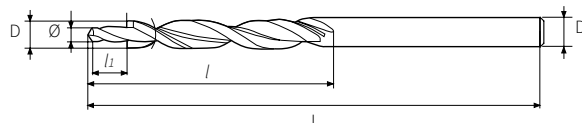
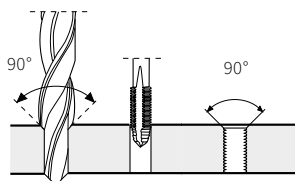
Metalli
Metals



Confezione
Packaging



Vite Thread	Ø	D	l ₁	l	L	cod.	€ cad/each
M 3	2,5	3,4	8,8	39	70	011170300	48,821
4	3,3	4,5	11,4	47	80	011170400	52,083
5	4,2	5,5	13,6	57	93	011170500	53,714
6	5	6,6	16,5	63	101	011170600	61,849
8	6,8	9,0	21	81	125	011170800	69,980
10	8,5	11	25,5	94	142	011171000	91,140
12	10,2	13,5	30	108	160	011171200	118,800



01057

HSS

DIN 8378 SERIE CORTA

90° - Per prefiori di filettature
90° - For thread core hole

Elica singola
Single spiral

Applicazioni
Applications



Acciaio
Steel



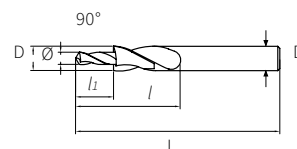
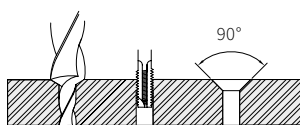
Metalli
Metals



Confezione
Packaging



Vite Thread	Ø	D	l ₁	l	L	cod.	€ cad/each
M 3	2,5	3,4	8,8	20	52	010570300	18,351
4	3,3	4,5	11,4	24	58	010570400	18,351
5	4,2	5,5	13,6	28	66	010570500	20,970
6	5,0	6,6	16,5	31	70	010570600	23,597
8	6,8	9,0	21,0	40	84	010570800	31,461
10	8,5	11,0	25,5	47	95	010571000	47,183
12	10,2	13,5	30,0	54	107	010571200	65,537



01272

HSS

DIN 373

180° - Per prefiori di filettature
180° - For thread core hole

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



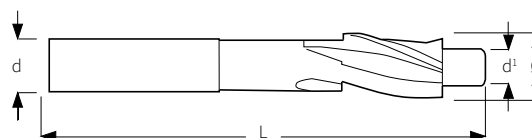
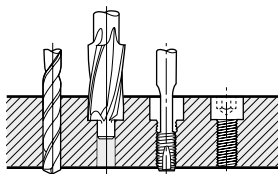
Alluminio
Aluminum



Confezione
Packaging



Vite Thread	Ø	d ¹	L	d	cod.	€ cad/each
M 3	6	2,5	71	5	0127203	21,366
4	8	3,3	71	5	0127204	21,366
5	10	4,2	80	8	0127205	21,366
6	11	5,0	80	8	0127206	22,173
8	15	6,8	100	12,5	0127208	35,635
10	18	8,5	100	12,5	0127210	42,772
12	20	10,2	100	12,5	0127212	46,721



PUNTE A CENTRARE

Center drills

OTTO

HSS-G

DIN 333/A

60°



HSS-G



Ø k12	D h8	L	pcs.	cod.	€ cad/each
1	3,15	31,5	1	011100100	6,375
1,6	4	35,5	1	011100160	6,246
2	5	40	1	011100200	6,610
2,5	6,3	45	1	011100250	7,119
3,15	8	50	1	011100315	8,332
4	10	56	1	011100400	16,272
5	12,5	63	1	011100500	22,086
6,3	16	71	1	011100630	37,159

01214

HSS-G

TiN

DIN 333/A

60°



HSS-G + TiN



Ø k12	D h8	L	pcs.	cod.	€ cad/each
1	3,15	31,5	1	012140100	10,373
1,6	4	35,5	1	012140160	10,510
2	5	40	1	012140200	10,941
2,5	6,3	45	1	012140250	11,813
3,15	8	50	1	012140315	13,397
4	10	56	1	012140400	22,512
5	12,5	63	1	012140500	30,601
6,3	16	71	1	012140630	45,917

01374

HSS-G

DIN 333/A ESECUZIONE PROLUNGATA

60°



HSS-G



Ø	D	L	pcs.	cod.	€ cad/each
1	4	120	1	013740100	28,315
1,6	5	120	1	013740160	28,315
2	6	120	1	013740200	28,315
2,5	8	120	1	013740250	30,834
3,15	10	120	1	013740315	59,762

PUNTE A CENTRARE
Center drills

01375

HSS-G

DIN 333/A ESECUZIONE CON PIANO

60°



HSS-G



Ø	D	S		pcs.	cod.	€ cad/each
1,6	4	35,5	3,25	1	013750160	17,268
2	5	40	4,2	1	013750200	17,268
2,5	6,3	45	5,35	1	013750250	17,268
3,15	8	50	6,95	1	013750315	21,877
4	10	56	8,4	1	013750400	30,834
5	12,5	63	10,95	1	013750500	47,180
6,3	16	71	14	1	013750630	83,039

01112

HSS-G

DIN 333/B

60° / 120°



HSS-G



Ø	D	L		pcs.	cod.	€ cad/each
1	4	35,5		1	011120100	9,727
1,6	6,3	45		1	011120160	10,652
2	8	50		1	011120200	11,500
2,5	10	56		1	011120250	14,681
3,15	11,2	60		1	011120315	17,641
4	14	67		1	011120400	27,914
5	18	75		1	011120500	35,097
6,3	20	80		1	011120630	51,475

01217

HSS-G

TiN

DIN 333/B

60° / 120°



HSS-G + TiN



Ø	D	L		pcs.	cod.	€ cad/each
1	4	35,5		1	012170100	15,547
1,6	6,3	45		1	012170160	16,264
2	8	50		1	012170200	17,287
2,5	10	56		1	012170250	24,966
3,15	11,2	60		1	012170315	27,048
4	14	67		1	012170400	40,454
5	18	75		1	012170500	56,624
6,3	20	80		1	012170630	74,558

PUNTE A CENTRARE

Center drills

01111

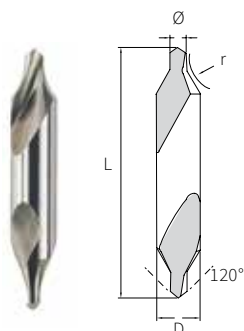
HSS-G

DIN 333/R

A RAGGIO



HSS-G



Ø	r	D	L	pcs.	cod.	€ cad/each
1	3,15	3,15	31,5	1	011110100	6,375
1,6	5	4	35,5	1	011110160	6,246
2	6,3	5	40	1	011110200	6,610
2,5	8	6,3	45	1	011110250	7,119
3,15	10	8	50	1	011110315	8,332
4	12,5	10	56	1	011110400	16,272
5	16	12,5	63	1	011110500	22,086
6,3	20	16	71	1	011110630	37,159

01216

HSS-G

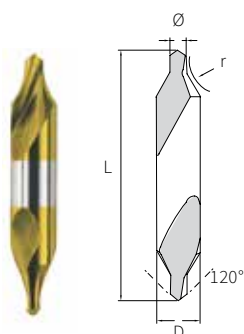
TiN

DIN 333/R

A RAGGIO



HSS-G + TiN

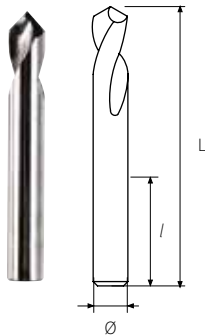
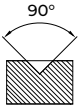


Ø	r	D	L	pcs.	cod.	€ cad/each
1	3,15	3,15	31,5	1	012160100	10,735
1,6	5	4	35,5	1	012160160	10,889
2	6,3	5	40	1	012160200	11,393
2,5	8	6,3	45	1	012160250	12,410
3,15	10	8	50	1	012160315	14,237
4	12,5	10	56	1	012160400	23,704
5	16	12,5	63	1	012160500	32,549
6,3	20	16	71	1	012160630	49,300

PUNTE A CENTRARE CILINDRICHE PER CENTRI CN

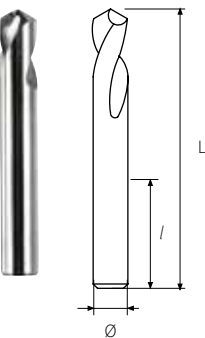
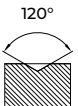
Center drills for CN machines

01361
VHM
METALLO DURO
Carbide

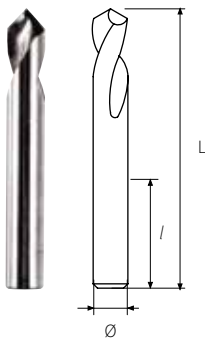
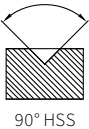
90°


Ø h7	l	L	pcs.	cod.	€ cad/each
5	10	50	1	013610500	44,171
6	15	50	1	013610600	57,420
8	20	63	1	013610800	79,504
10	22	72	1	013611000	110,415
12	22	73	1	013611200	176,671
14	25	75	1	013611400	238,208
16	25	82	1	013611600	309,173
20	30	104	1	013612000	530,013

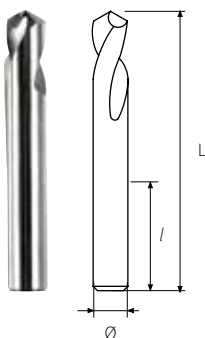
01363
VHM
METALLO DURO
Carbide

120°


Ø h7	l	L	pcs.	cod.	€ cad/each
5	10	50	1	013630500	44,171
6	15	50	1	013630600	57,420
8	20	63	1	013630800	79,504
10	22	72	1	013631000	110,415
12	22	73	1	013631200	176,671
14	25	75	1	013631400	238,208
16	25	82	1	013631600	309,173
20	30	104	1	013632000	530,013

01364
HSS-G
90°


Ø	l mm	L mm	pcs.	cod.	€ cad/each
3	12	46	1	013640300	13,811
4	12	55	1	013640400	14,769
5	14	62	1	013640500	16,615
6	16	66	1	013640600	19,213
8	21	79	1	013640800	29,059
10	25	89	1	013641000	36,784
12	30	102	1	013641200	51,964
14	33	107	1	013641400	74,184
16	37	115	1	013641600	80,884
20	45	131	1	013642000	138,317

01365
HSS-G
120°


Ø	l mm	L mm	pcs.	cod.	€ cad/each
3	12	46	1	013650300	13,811
4	12	55	1	013650400	14,769
5	14	62	1	013650500	16,615
6	16	66	1	013650600	19,213
8	21	79	1	013650800	29,059
10	25	89	1	013651000	36,784
12	30	102	1	013651200	51,964
14	33	107	1	013651400	74,184
16	37	115	1	013651600	80,884
20	45	131	1	013652000	138,317

SVASATORI A 3 TAGLIENTI A 90° IN METALLO DURO

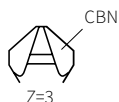
90° 3 flutes carbide countersinks

01264

MD

TiAlN

DIN 335/C-90°
Carbide



Confezione
Packaging



Ø h10	d h7	L	per viti / for screws DIN 74 BF ⊙	cod.	€ cad/each
6,3	6	50	M 3	012640630	117,743
8,3	6	50	M 4	012640830	127,690
10,4	6	60	M 5	012641040	137,128
12,4	8	60	M 6	012641240	150,395
16,5	10	60	M 8	012641650	214,446
20,5	10	63	M 10	012642050	335,358
25	10	67	M 12	012642500	478,322

Applicazioni
Applications



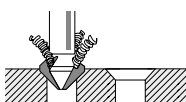
Inox
Stainless



Acciaio
Steel



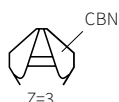
Metalli
Metals



01263

MD

DIN 335/C-90°
Carbide



Confezione
Packaging



Ø h10	d h7	L	per viti / for screws DIN 74 BF ⊙	cod.	€ cad/each
6,3	6	50	M 3	012630630	102,799
8,3	6	50	M 4	012630830	112,431
10,4	6	60	M 5	012631040	115,644
12,4	8	60	M 6	012631240	128,492
16,5	10	60	M 8	012631650	186,309
20,5	10	63	M 10	012632050	295,536
25	10	67	M 12	012632500	417,600

Applicazioni
Applications



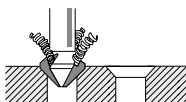
Inox
Stainless



Acciaio
Steel



Metalli
Metals



SVASATORI A 90° CON GEOMETRIA ASIMMETRICA DEI 3 TAGLIENTI E FORMA ELICOIDALE

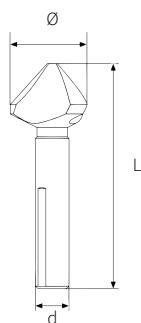
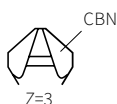
90° 3 unique cutting edges countersinks with spiral shape

01265

HSS

~DIN 335-90° ASIMMETRICO ELICOIDALE

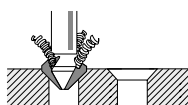
Finitura perfetta
Massima velocità
Perfect finish - Max speed



Confezione
Packaging



Ø mm	d mm	L mm	per viti / for screws		cod.	€ cad/each
			DIN 74 AF	DIN 74 BF		
6,3	5	45		M3	012650630	15,327
8,3	6	50		M4	012650830	17,379
10,4	6	50		M5	012651040	20,937
12,4	8	56		M6	012651240	22,598
15	10	60	M8		012651500	26,488
16,5	10	60		M8	012651650	27,673
20,5	10	63		M10	012652050	38,084
25	10	67		M12	012652500	58,485
31	12	71		M16	012653100	80,535



Art. 01270114
€ 145,000

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

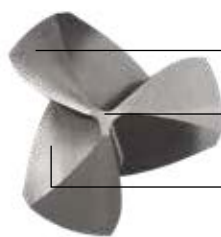
Applicazioni
Applications



Acciaio
Steel



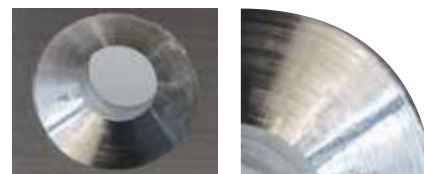
Metalli
Metals



Geometria asimmetrica
Unequal pitch

Geometria a spirale
Spiral geometry

3 Taglienti 90°
3 flutes 90°



MINORI VIBRAZIONI, FINITURA PERFETTA: la speciale forma elicoidale dei taglienti smorza sensibilmente le vibrazioni che si sviluppano durante le lavorazioni anche più gravose, contribuendo a migliorare il livello di finitura oltre che l'esperienza di utilizzo con elettroutensili portatili.

MASSIMA VELOCITÀ: la forma a spirale dei taglienti permette una più rapida ed efficiente espulsione dei trucioli, garantendo lavorazioni estremamente rapide.

HSS: utensile prodotto con acciaio super rapido di alta qualità, ideale per lavori di svasatura su acciai legati, ghise, tutti i metalli in generale.

PIANETTI ANTISLITTAMENTO: il codolo è dotato di tre le superfici rettificata che garantiscono la massima presa delle griffe eliminando il rischio di slittamento dell'utensile nel mandrino.

LESS VIBRATIONS, PERFECT FINISH: the special helical shape of the cutting edges significantly REDUCES the vibrations that develop during the heaviest jobs, helping to improve the level of finish as well as the experience of using portable power tools.

MAXIMUM SPEED: the spiral shape of the cutting edges allows for faster and more efficient chip ejection, guaranteeing machining extremely fast.

HSS: tool produced with high quality super-rapid steel, ideal for flaring work on alloy steels, cast irons, all metals in general.

ANTI-SLIP PLATES: the SHANK is equipped with three ground surfaces that guarantee maximum grip of the jaws, eliminating the risk slippage of the tool in the spindle.

SVASATORI A 90° CON GEOMETRIA ASIMMETRICA DEI 3 TAGLIENTI

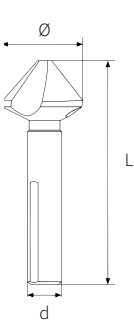
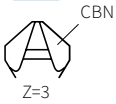
90° 3 unequal cutting edges countersinks

01267

HSS-CO

~DIN 335-90°

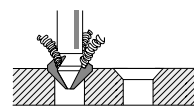
Asimmetrico - Finitura perfetta
Asymmetric - Perfect finish



Confezione
Packaging



Ø mm	d mm	L mm	per viti / for screws		cod.	€ cad/each
			DIN 74 AF	DIN 74 BF		
6,3	5	45		M3	012670630	16,493
8,3	6	50		M4	012670830	18,580
10,4	6	50		M5	012671040	26,665
12,4	8	56		M6	012671240	29,832
15	10	60	M8		012671500	34,173
16,5	10	60		M8	012671650	36,680
20,5	10	63		M10	012672050	50,919
25	10	67		M12	012672500	69,189
31	12	71		M16	012673100	92,555



Art. 0127013
€ 156,000

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



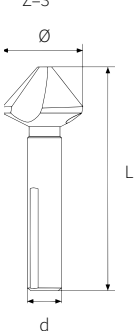
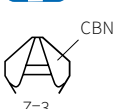
Metalli
Metals

01266

HSS

~DIN 335-90°

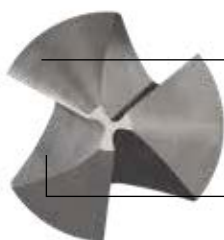
Asimmetrico - Finitura perfetta
Asymmetric - Perfect finish



Confezione
Packaging



Ø mm	d mm	L mm	per viti / for screws		cod.	€ cad/each
			DIN 74 AF	DIN 74 BF		
6,3	5	45		M3	012660630	14,191
8,3	6	50		M4	012660830	16,092
10,4	6	50		M5	012661040	19,386
12,4	8	56		M6	012661240	20,924
15	10	60	M8		012661500	24,526
16,5	10	60		M8	012661650	25,623
20,5	10	63		M10	012662050	35,263
25	10	67		M12	012662500	54,153
31	12	71		M16	012663100	74,569



Geometria asimmetrica
Unequal pitch

3 Taglienti 90°
3 flutes 90°



Art. 0127012
€ 131,000

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

GEOMETRIA ASIMMETRICA: la speciale geometria asimmetrica, grazie al differente angolo di spoglia di ciascun tagliente, garantisce una perfetta finitura del foro, che risulta tondo e liscio.

HSS e HSS-CO: utensile ideale per lavori di svasatura su acciai legati, ghise, tutti i metalli in generale e, nella versione al cobalto 5%, anche su acciaio inox.

PIANETTI ANTISLITTAMENTO: il codolo è dotato di tre superfici rettificata (per $\phi \geq 12,4$ mm) che garantiscono la massima presa delle griffe eliminando il rischio di slittamento dell'utensile nel mandrino.

ASYMMETRIC GEOMETRY: the special asymmetric geometry, thanks to the different rake angle of each cutting edge, guarantees perfect finish of the hole, which is round and smooth.

HSS and HSS-CO: ideal tool for flaring work on alloy steels, cast irons, all metals in general and, in the 5% cobalt version, also on stainless steel.

ANTI-SLIP PLATES: the tang has three ground surfaces (for $\phi \geq 12,4$ mm) which guarantee maximum grip of the jaws eliminating the risk of tool slippage in the spindle.



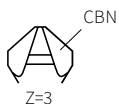
SVASATORI A 3 TAGLIENTI A 90° 90° 3 cutting edges countersinks

01262

HSS-CO

TiAlN

DIN 335/C-90°

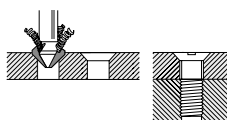


Confezione
Packaging



Ø mm	d mm	L mm	per viti / for screws		cod.	€ cad/each
			DIN 74 AF	DIN 74 BF		
6,3	5	45		M 3	012620630	17,837
8,3	6	50		M 4	012620830	23,358
10,4	6	50		M 5	012621040	34,211
12,4	8	56		M 6	012621240	42,470
15	10	60	M 8		012621500	46,598
16,5	10	60		M 8	012621650	50,727
20,5	10	63		M 10	012622050	69,602
25	10	67		M 12	012622500	106,173
28	12	71		M 16	012622800	112,281
30	12	71			012623000	119,336
31	12	71			012623100	126,228
40	15	80			012624000	145,377

Applicazioni
Applications



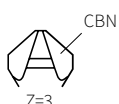
Art. 0127011
€ 207,569

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

01261

HSS-CO

DIN 335/C-90°

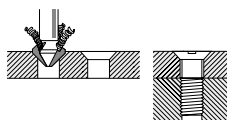


Confezione
Packaging



Ø mm	d mm	L mm	per viti / for screws		cod.	€ cad/each
			DIN 74 AF	DIN 74 BF		
6,3	5	45		M 3	012610630	14,341
8,3	6	50		M 4	012610830	16,157
10,4	6	50		M 5	012611040	23,187
12,4	8	56		M 6	012611240	25,941
15	10	60	M 8		012611500	29,716
16,5	10	60		M 8	012611650	31,896
20,5	10	63		M 10	012612050	44,278
25	10	67		M 12	012612500	60,165
28	12	71		M 16	012612800	64,482
30	12	71			012613000	68,995
31	12	71			012613100	80,482
40	15	80			012614000	85,224

Applicazioni
Applications



Art. 0127010
€ 135,598

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

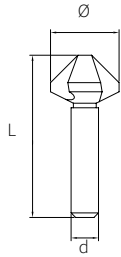
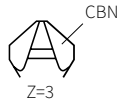
SVASATORI A 3 TAGLIENTI A 90° 90° 3 cutting edges countersinks

01260

HSS

TiN

DIN 335/C-90°



Confezione
Packaging



Ø mm	d mm	L mm	per viti / for screws		cod.	€ cad/each
			DIN 74 AF	DIN 74 BF		
4,3	4	40			012600430	17,532
5	4	40	M 2,5		012600500	17,532
5,3	4	40			012600530	17,532
5,8	5	45			012600580	17,773
6	5	45	M 3		012600600	17,773
6,3	5	45		M 3	012600630	18,149
7	6	50	M 3,5		012600700	19,460
7,3	6	50			012600730	19,460
8	6	50	M 4		012600800	19,836
8,3	6	50		M 4	012600830	19,836
9,4	6	50			012600940	21,272
10	6	50	M 5		012601000	25,055
10,4	6	50		M 5	012601040	25,055
11,5	8	56	M 6		012601150	26,564
12,4	8	56		M 6	012601240	26,564
13,4	8	56			012601340	28,996
15	10	60	M 8		012601500	31,015
16,5	10	60		M 8	012601650	34,689
19	10	63	M 10		012601900	43,780
20,5	10	63		M 10	012602050	45,384
23	10	67	M 12		012602300	71,402
25	10	67		M 12	012602500	69,140
26	12	67	M 14		012602600	82,741
28	12	71		M 14	012602800	86,136
30	12	71	M 16		012603000	88,409
31	12	71		M 16	012603100	90,674
40	15	80			012604000	130,746

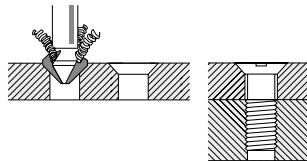
Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Art. 01270109
€ 170,013

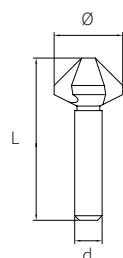
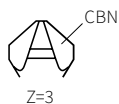
6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

SVASATORI A 3 TAGLIENTI A 90° 90° 3 cutting edges countersinks

01185

HSS

DIN 335/C-90°



Confezione
Packaging



Ø mm	d mm	L mm	per viti / for screws		cod.	€ cad/each
			DIN 74 AF	DIN 74 BF		
4,3	4	40			011850430	11,970
5	4	40	M 2,5		011850500	11,970
5,3	4	40			011850530	11,970
5,8	5	45			011850580	12,342
6	5	45	M 3		011850600	12,342
6,3	5	45		M 3	011850630	12,342
7	6	50	M 3,5		011850700	13,679
7,3	6	50			011850730	13,679
8	6	50	M 4		011850800	13,995
8,3	6	50		M 4	011850830	13,995
9,4	6	50			011850940	15,346
10	6	50	M 5		011851000	16,860
10,4	6	50		M 5	011851040	16,860
11,5	8	56	M 6		011851150	18,198
12,4	8	56		M 6	011851240	18,198
13,4	8	56			011851340	21,330
15	10	60	M 8		011851500	21,330
16,5	10	60		M 8	011851650	22,285
19	10	63	M 10		011851900	30,668
20,5	10	63		M 10	011852050	30,668
23	10	67	M 12		011852300	47,097
25	10	67		M 12	011852500	47,097
26	12	67	M 14		011852600	61,091
28	12	71		M 14	011852800	61,091
30	12	71	M 16		011853000	64,853
31	12	71		M 16	011853100	64,853
40	15	80			011854000	73,357

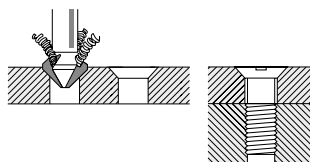
Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Art. 01270107
€ 113,334

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

SVASATORI A 90° CON ATTACCO ESAGONALE 1/4"

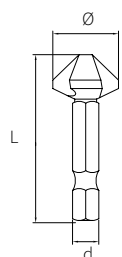
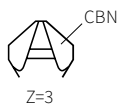
90° countersink with 1/4" hexagon shank

19003

HSS

DIN 335/C-90°

Attacco 1/4" HEX form E
1/4" HEX form E shank



Ø	L	d	per viti / for screws		cod.	€ cad/each
			DIN 74 BF	⊙		
6,3	40	1/4	M 3		190030630	12,340
8,3	45	1/4	M 4		190030830	13,993
10,4	47	1/4	M 5		190031040	16,857
12,4	49	1/4	M 6		190031240	18,195
16,5	52	1/4	M 8		190031650	22,281
20,5	55	1/4	M 10		190032050	30,663



Applicazioni
Applications



Acaccia
Steel



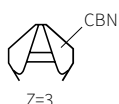
Metalli
Metals

19001

HSS

DIN 335/C-90°

Attacco 1/4" HEX
1/4" HEX shank



Ø	L	d	per viti / for screws		cod.	€ cad/each
			DIN 74 BF	⊙		
6,3	31	1/4	M 3		19001063	12,340
8,3	31	1/4	M 4		19001083	13,993
10,4	34	1/4	M 5		19001104	16,857
12,4	35	1/4	M 6		19001124	18,195
16,5	40	1/4	M 8		19001165	22,281
20,5	41	1/4	M 10		19001205	30,663



Applicazioni
Applications



Acaccia
Steel



Metalli
Metals

Magnetico
Magnetic



ØxL

33x120

cod.

19001000

€
cad/each

16,624



Art. 19002 Self
Disponibile su richiesta
On demand



Art. 19020214
€ 113,281

6 pcs HSS
Attacco 1/4" HEX
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

SVASATORI A 3 TAGLIENTI A 90°
90° 3 cutting edges countersinks

01193

HSS

DIN 335/C-90°

Serie lunga
Long serie



Ø mm	d	L	cod.	€ cad/each
6,3	5	104	011930630	28,726
8,3	6	105	011930830	32,340
10,4	6	107	011931040	39,052
12,4	8	108	011931240	41,494
15	10	109	011931500	47,596
16,5	10	111	011931650	51,068
20,5	10	114	011932050	70,922
25	10	118	011932500	107,063

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

Lunghezza del codolo 100 mm
Shank length 100 mm

01196

HSS

DIN 335/D-90°

Codolo Morse
Morse taper



Ø mm	MK	L	per viti / for screws		cod.	€ cad/each
			DIN 74 AF ⊖	DIN 74 BF ⊕		
15	1	85	M 8		011961500	43,146
16,5	1	85		M 8	011961650	50,822
19	2	100	M 10		011961900	59,716
20,5	2	100		M 10	011962050	61,243
23	2	106	M 12		011962300	64,294
25	2	106		M 12	011962500	84,828
26	2	106	M 14		011962600	84,828
28	2	112		M 14	011962800	104,131
30	2	112	M 16		011963000	112,392
31	2	112		M 16	011963100	122,601
34	2	118	M 18	M 18	011963400	138,655
37	2	118	M 20	M 20	011963700	156,173
40	3	140			011964000	217,475
50	3	150			011965000	351,762

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

SVASATORI A 90°
90° countersinks

01192

HSS

DIN 335/C 90°

1 tagliente
1 cutting edge



Ø mm	D	L	cod.	€ cad/each
6	5	45	011920600	22,659
8	6	50	011920800	25,146
10	6	50	011921000	26,673
12	8	56	011921200	33,936
16	10	60	011921600	41,200
20	10	63	011922000	60,902
25	10	67	011922500	100,517
30	12	71	011923000	130,980

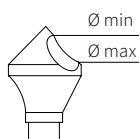
Applicazioni
Applications



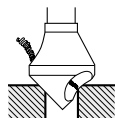
01188

HSS

Speciale alluminio e plastica
Special for aluminium and plastics



Gr.	Ø min - max	d	L	cod.	€ cad/each
1	2 ÷ 5	6	45	0118801	17,212
2	5 ÷ 10	8	48	0118802	21,725
3	10 ÷ 15	10	65	0118803	42,775
4	15 ÷ 20	12	85	0118804	75,798
5	20 ÷ 25	15	102	0118805	138,436
6	25 ÷ 30	15	115	0118806	204,085
7	30 ÷ 35	15	127	0118807	266,868
8	35 ÷ 40	15	136	0118808	375,339
9	40 ÷ 50	20	166	0118809	460,963



Applicazioni
Applications



Speciale per alluminio, metalli leggeri e plastica. Lavora senza vibrazioni, ottima finitura.
For aluminium, metals and plastics. For deburring and small chamfers.
Best surface finish. Works without vibrations.

SVASATORI A 3 TAGLIENTI A 75° E 60°
3 75° and 60° cutting edges countersinks

01197

HSS

75°

75°



Z=3



Ø mm	d	L	cod.	€ cad/each
6,3	5	45	011970630	22,247
8,3	6	50	011970830	24,926
10,4	6	50	011971040	29,013
12,4	8	56	011971240	30,768
13,4	8	56	011971340	37,785
16,5	10	63	011971650	37,785
20,5	10	67	011972050	54,917
25	10	71	011972500	79,619

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

01186

HSS

DIN 334/C 60°

60°



Z=3



Ø mm	d	L	cod.	€ cad/each
6,3	5	45	011860630	16,565
8	6	50	011860800	20,392
10	6	53	011861000	22,551
12,5	8	56	011861250	29,988
16	10	63	011861600	29,988
20	10	67	011862000	40,916
25	10	71	011862500	61,787
31,5	12	76	011863150	85,370

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

SVASATORI MANUALI

Hand countersinks

01187

HSS

DIN 335/C-90°

90°



Ø mm	L	cod.	€ cad/each
6,3	121	011870630	24,398
8,3	122	011870830	27,480
10,4	124	011871040	30,395
12,4	126	011871240	34,223
16,5	130	011871650	43,121
20,5	130	011872050	53,883

Manico
Handle



ØxL	cod.	€ cad/each
33x120	19001000	16,624



Art. 01191 Self
Disponibile su richiesta
On demand



Magnetico
Magnetic

01190

HSS

40°



Z=6



Gr.	Ø min-max	L	cod.	€ cad/each
1	10 ÷ 34	155	0119001	88,660

Speciale per sbavare condutture elettriche, tubi in rame o tubi in generale e grossi fori.
Quick and effective deburring of electrical conduit, copper pipe or any tubes or large holes.



**PUNTA FRESA IN HSS-CO PER RIMUOVERE PUNTI DI SALDATURA
E PER FORARE LAMIERE IN GENERE**
HSS-CO spot drills

01169

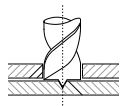
HSS-CO

TiN

≈ **DIN 1897**



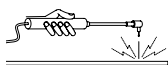
~DIN 1412/E
= DIN 1897



Confezione
Packaging



Ø mm	d	L	cod.	€ cad/each
6	6	66	011690600	21,143
7	7	74	011690700	25,106
8	8	79	011690800	27,745
10	10	89	011691000	34,399



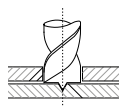
01171

HSS-CO

≈ **DIN 1897**



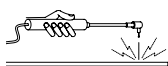
~DIN 1412/E
= DIN 1897



Confezione
Packaging



Ø mm	d	L	cod.	€ cad/each
6	6	66	011710600	14,642
7	7	74	011710700	16,461
8	8	79	011710800	17,415
10	10	89	011711000	22,173



**PUNTA FRESA IN HSS-CO PER RIMUOVERE PUNTI DI SALDATURA
CON MACCHINE PNEUMATICHE**
Milling drill for removing spot welds with pneumatic tools

01179

MD

TiAlN

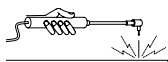


~DIN 1412/E



Ø mm	d	L	cod.	€ cad/each
6,5	8	40	011790650	125,567
8	8	40	011790800	125,567
10	8	44	011791000	154,502

Velocità consigliata 10.000 giri/min
Recommended speed 10.000 rpm



01173

HSS-CO

TiN



~DIN 1412/E



Ø mm	d	L	cod.	€ cad/each
6,5	6,5	40	011730650	19,944
6,5	8	44	011730650V	19,944
8	8	40	011730800	23,323
8	8	44	011730800V	23,323

Velocità consigliata 3.000 giri/min
Recommended speed 3.000 rpm

01172

HSS-CO



~DIN 1412/E



Ø mm	d	L	cod.	€ cad/each
6,5	6,5	40	011720650	16,167
6,5	8	44	011720650V	16,167
8	8	40	011720800	18,426
8	8	44	011720800V	18,426

Velocità consigliata 3.000 giri/min
Recommended speed 3.000 rpm

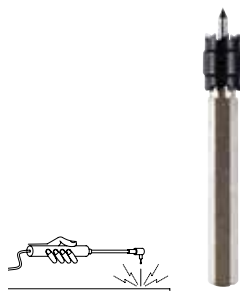
Speciale per taglio di acciai molto duri con carico di resistenza fino a 1500N/mm²; grande rendimento grazie all'accoppiamento metallo duro + rivestimento TiAlN multistrato.

Specially designed for cutting very hard metal sheets up to 1500N/mm² tensile strength; great performances due to the combination of solid carbide and TiAlN multilayer coating.

**FRESA PER RIMUOVERE I PUNTI DI SALDATURA
SU LAMIERE METALLICHE**
Milling cutter for removing spot welds from metal sheets

01174

HSS



\varnothing mm	d	L	cod.	€ cad/each
10	7	72	01174100	14,068

Ricambi
Spare parts



cod.	L	€ cad/each
01174101		7,197
01174102	26	0,848

**PUNTA FRESA UNIVERSALE PER LA FORATURA E FRESATURA
DI LAMIERE E MATERIALI SOTTILI IN LEGNO E PLASTICA**
Universal milling drill for cutting and milling metal sheets and thin wooden or plastic materials

01175

HSS



Confezione
Packaging

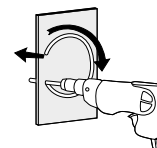


$\varnothing \times L$	cod.	€ cad/each
6x90	011750600	6,779

Applicazioni
Applications



Metalli
Metals



PUNTE PER TRACCIARE
CON RIPORTO IN METALLO DURO
Carbide scribers

0314201

MD



L	cod.	€ cad/each
200	0314201	7,364

0314202

MD



L	cod.	€ cad/each
150	0314202	5,823

PUNTERUOLO
Punch

41001

C.V.



L	cod.	€ cad/each
78	4100101	3,650





UTENSILI A FILETTARE: MASCHI A MACCHINA

THREADING TOOLS: MACHINE TAPS

VISIONE D'INSIEME: MASCHI A MACCHINA

Overview: machine taps

MATERIALE MATERIAL	RIVESTIMENTO COATING	FILETTATURA THREAD	FORO PASSANTE/CIECO BLIND OR TROUGH HOLES	SPIRALE SPIRAL	SPECIALITÀ FEATURES	DIAMETRO FORO HOLE DIAMETER	NORMA STANDARD	IMMAGINE IMAGE	INOX STAINLESS STEEL	ACCIAIO <1200 N/mm STEEL <1200 N/mm	ACCIAIO <900 N/mm STEEL <900 N/mm	ACCIAIO <700 N/mm ACCIAIO <700 N/mm	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM/ALLOYS	R=SN/mm²	COD.		
HSS Co	M	TiAIN		-	-	3÷10	371/B		✓	✓	✓	✓	✓	✓	1300	10400	244	
		TiAIN		-	-	12÷24	376/B		✓	✓	✓	✓	✓	✓	1300	10401	244	
		TiAIN			35°	-	3÷10	371/C-35°		✓	✓	✓	✓	✓	✓	1300	10404	245
		TiAIN			35°	-	12÷24	376/C-35°		✓	✓	✓	✓	✓	✓	1300	10405	245
		TiN			-	-	3÷10	371/B		✓	✓	✓	✓	✓	✓	1200	10350	246
		TiN			-	-	12÷23	376/B		✓	✓	✓	✓	✓	✓	1200	10351	246
		TiN			35°	-	3÷10	371/C-35°		✓	✓	✓	✓	✓	✓	1200	10354	247
		TiN			35°	-	12÷24	376/C-35°		✓	✓	✓	✓	✓	✓	1200	10355	247
		TiN			-	-	2÷10 12÷20	371/B 376/B		✓	✓	✓	✓	✓	✓	1200	10362	248
		TiN			40°	-	2÷10	371/C-40°		✓	✓	✓	✓	✓	✓	1200	10363	248
		-	-		-	-	3÷10 12÷20	371/B 376/B		✓	✓	✓	✓	✓	✓	850	10515	249
		-	-		40°	-	3÷10 12÷20	371/C-40° 376/C-40°		✓	✓	✓	✓	✓	✓	850	10516	250
		-	-		-	-	3÷10	371/B		✓	✓	✓	✓	✓	✓	850	10504	251
		-	-		-	-	12÷20	376/B		✓	✓	✓	✓	✓	✓	850	10505	251
		-	-		40°	-	3÷10	371C-40°		✓	✓	✓	✓	✓	✓	850	10506	252
		-	-		40°	-	12÷20	376C-40°		✓	✓	✓	✓	✓	✓	850	10507	252
		-	-		-	-	3÷10	371/B		✓	✓	✓	✓	✓	✓	1200	10500	253
		-	-		-	-	12÷20	376/B		✓	✓	✓	✓	✓	✓	1200	10501	253
		-	-		40°	-	3÷10	371C-40°		✓	✓	✓	✓	✓	✓	1200	10502	254
		-	-		40°	-	12÷20	376C-40°		✓	✓	✓	✓	✓	✓	1200	10503	254
		-	-		-	-	4÷10	371/A		✓	✓	✓	✓	✓	✓	1200	10510	255
		-	-		40°	-	3÷10	371/C-40°		✓	✓	✓	✓	✓	✓	850	10511	256
		-	-		40°	-	12÷16	376/C-40°		✓	✓	✓	✓	✓	✓	850	10512	256
		-	-		-	-	3÷10	371/C		✓	✓	✓	✓	✓	✓	850	10508	257
-	-		-	-	12÷20	376/C		✓	✓	✓	✓	✓	✓	850	10509	257		
-	-		-	-	3÷10	371/C		✓	✓	✓	✓	✓	✓	850	10513	258		
-	-		-	-	12÷16	376/C		✓	✓	✓	✓	✓	✓	850	10514	258		

MATERIALE MATERIAL	RIVESTIMENTO COATING	FILETTATURA THREAD	FORO PASSANTE/CIECO BLIND OR TROUGH HOLES	SPIRALE SPIRAL	SPECIALITÀ FEATURES	DIAMETRO FORO HOLE DIAMETER	NORMA STANDARD	IMMAGINE IMAGE	INOX STAINLESS STEEL	ACCIAIO <1200 N/mm STEEL <1200 N/mm	ACCIAIO <900 N/mm STEEL <900 N/mm	ACCIAIO <700 N/mm ACCIAIO <700 N/mm	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM/ALLOYS	R=SN/mm ²	COD.	
HSS Co	VAPO	M		-	-	3÷10	371/B		✓	✓	✓	✓	✓	✓	900	10297	259
	VAPO			-	-	12÷20	376/B		✓	✓	✓	✓	✓	✓	900	10298	259
	VAPO			35°	-	3÷10	371/C-35°		✓	✓	✓	✓	✓	✓	900	10299	260
	VAPO			35°	-	12÷20	376/C-35°		✓	✓	✓	✓	✓	✓	900	10300	260
	-			-	-	1÷10	371/B		✓	✓	✓	✓	✓	✓	850	10250	261
	-			-	-	3÷68	376/B		✓	✓	✓	✓	✓	✓	850	10253	261
	-			-	-	3÷10	371/C		✓	✓	✓	✓	✓	✓	850	10251	262
	-			-	-	3÷42	376/C		✓	✓	✓	✓	✓	✓	850	10254	262
	-			15°	-	3÷10	371/C-15°		✓	✓	✓	✓	✓	✓	850	10256	263
	-			15°	-	3÷24	376/C-15°		✓	✓	✓	✓	✓	✓	850	10258	263
	-			35°	-	3÷10	371/C-35°		✓	✓	✓	✓	✓	✓	850	10255	264
	-			35°	-	3÷42	376/C-35°		✓	✓	✓	✓	✓	✓	850	10257	264
	-			-	LUNGI LONG	3÷12	371/B		✓	✓	✓	✓	✓	✓	850	10291	265
	-			35°		3÷12	371/C-35°		✓	✓	✓	✓	✓	✓	850	10292	265
HM	-		-	CON CANALINE INTERNAL COOLING	3÷10	371/C		✓	✓	✓	✓	✓	✓	1300	10340	266	
HSS Co	-	M		40°	CON CANALINE INTERNAL COOLING	5÷10	371/C-40°		✓	✓	✓	✓	✓	✓	850	10330	266
	-			-	ALTERNATI INTERRUPTED THREADS	3÷10	371/B		✓	✓	✓	✓	✓	850	10261	267	
	-			-		12÷30	376/B		✓	✓	✓	✓	✓	850	10262	267	
	-			-		3÷10	371/B		✓	✓	✓	✓	✓	850	10277	268	
	-			-		12÷30	376/B		✓	✓	✓	✓	✓	850	10278	268	
	-			-	SINISTRI LEFT HAND	3÷10	371/C		✓	✓	✓	✓	✓	✓	850	10263	269
	-			-		12÷24	376/C		✓	✓	✓	✓	✓	✓	850	10264	269
	-			35°		3÷10	371/C-35°		✓	✓	✓	✓	✓	✓	850	10279	270
	-			35°		12÷30	376/C-35°		✓	✓	✓	✓	✓	✓	850	10288	270
	-		-	-		3÷16	2174		✓	✓	✓	✓	✓	✓	850	10280	271
	TiN		-	-	A RULLARE PER LAMIERE COLD FORMING FOR SHEETS	3÷16	2174		✓	✓	✓	✓	✓	✓	1200	10360	271
	-		-	-		3÷16	2174		✓	✓	✓	✓	✓	✓	850	10281	272
	TiN		-	-		3÷16	2174		✓	✓	✓	✓	✓	✓	1200	10361	272

VISIONE D'INSIEME: MASCHI A MACCHINA

Overview: machine taps

MATERIALE MATERIAL	RIVESTIMENTO COATING	FILETTATURA THREAD	FORO PASSANTE/CIECO BLIND OR TROUGH HOLES	SPIRALE SPIRAL	SPECIALITÀ FEATURES	DIAMETRO FORO HOLE DIAMETER	NORMA STANDARD	IMMAGINE IMAGE	INOX STAINLESS STEEL	ACCIAIO <1200 N/mm STEEL <1200 N/mm	ACCIAIO <900 N/mm STEEL <900 N/mm	ACCIAIO <700 N/mm ACCIAIO <700 N/mm	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM/ALLOYS	R=SN/mm ²	COD.		
HSS Co	M		-	-	SOVRADIM. 6g OVERSIZE 6g	3÷10 12	371/B 376/B		✓	✓	✓	✓	✓	✓	850	10310	273	
						3÷10	371/C-35°		✓	✓	✓	✓	✓	850	10313	273		
			-	-	SOVRADIM. 7g OVERSIZE 7g	3÷10 12	371/B 376/B		✓	✓	✓	✓	✓	✓	850	10311	274	
						3÷10 12	371/C-35° 376/C-35°		✓	✓	✓	✓	✓	850	10314	274		
			-	-	SOVRADIM. +0,1mm OVERSIZE +0,1mm	3÷10 12	371/B 376/B		✓	✓	✓	✓	✓	✓	850	10312	275	
						3÷10 12	371/C-35° 376/C-35°		✓	✓	✓	✓	✓	850	10315	275		
			-	-	-	PER DADI FOR NUTS	3÷24	357		✓	✓	✓	✓	✓	✓	850	10273	276
							3÷12	357		✓	✓	✓	✓	✓	850	10290	276	
		MF		-	-	-	-	3÷42	374/B		✓	✓	✓	✓	✓	850	10259	277
								4÷42	374/C		✓	✓	✓	✓	✓	850	10252	278
			-	-	-	-	3÷42	374/C-35°		✓	✓	✓	✓	✓	850	10260	279	
							4÷52	374/B		✓	✓	✓	✓	✓	850	10286	280	
			-	-	-	SINISTRI LEFT HAND	4÷52	374/B		✓	✓	✓	✓	✓	850	10287	281	
							4÷52	374/C-35°		✓	✓	✓	✓	✓	850	10287	281	
	BSP			-	-	-	-	1"÷2"	5156/B		✓	✓	✓	✓	✓	850	10268	282
								1/8÷2"	5156/C		✓	✓	✓	✓	✓	850	10276	282
			-	-	-	-	1"÷2"	5156C-35°		✓	✓	✓	✓	✓	850	10267	283	
							1/8÷1"	5156/C		✓	✓	✓	✓	✓	850	10289	283	
	BSPT		-	-	CONICO 1:16 TAPER 1:16	1/8÷1"	-		✓	✓	✓	✓	✓	850	10294	284		
	BSW		-	-	-	-	1/8÷3/8	371/B		✓	✓	✓	✓	✓	850	10265	285	
							7/16÷ 1.1/2	376/B		✓	✓	✓	✓	✓	850	10266	285	
			-	-	-	-	1/8÷3/8	371C-35°		✓	✓	✓	✓	✓	850	10274	286	
							7/16÷ 1.1/2	376C-35°		✓	✓	✓	✓	✓	850	10275	286	
	NPT		-	-	CONICO 1:16 TAPER 1:16	1/8÷1"	-		✓	✓	✓	✓	✓	850	10293	287		
	NPS		-	-	-	CORTI SHORT	1/19÷1"	-		✓	✓	✓	✓	✓	850	10308	288	
							1/16÷1"	-		✓	✓	✓	✓	✓	850	10309	288	
	NPTF		-	-	-	CONICO 1:16 TAPER 1:16	1/16÷1"	-		✓	✓	✓	✓	✓	850	10306	289	
							1/8÷1"	-		✓	✓	✓	✓	✓	850	10307	289	

MATERIALE MATERIAL	RIVESTIMENTO COATING	FILETTATURA THREAD	FORO PASSANTE/CIECO BLIND OR TROUGH HOLES	SPIRALE SPIRAL	SPECIALITÀ FEATURES	DIAMETRO FORO HOLE DIAMETER	NORMA STANDARD	IMMAGINE IMAGE	INOX STAINLESS STEEL	ACCIAIO <1200 N/mm STEEL <1200 N/mm	ACCIAIO <900 N/mm STEEL <900 N/mm	ACCIAIO <700 N/mm ACCIAIO <700 N/mm	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM/ALLOYS	R=SN/mm ²	COD.		
HSS Co	-	8-UN		-	-	1.1/8÷ 2.1/2	529-2B		✓	✓	✓	✓	✓	✓	850	10301	290	
	-	UNC		-	-	6÷3/8	ANSI B1.1		✓	✓	✓	✓	✓	✓	850	10269	291	
	-			-	-	7/16÷ 1.1/2	ANSI B1.1		✓	✓	✓	✓	✓	✓	850	10270	291	
	-			35°	-	6÷3/8	ANSI B1.1		✓	✓	✓	✓	✓	✓	850	10271	292	
	-	UNC		35°	-	7/16÷ 1.1/2	ANSI B1.1		✓	✓	✓	✓	✓	✓	850	10272	292	
	-			-	-	6÷3/8	ANSI B1.1		✓	✓	✓	✓	✓	✓	850	10282	293	
	-	UNF		-	-	7/16÷ 1.1/2	ANSI B1.1		✓	✓	✓	✓	✓	✓	850	10283	293	
	-			35°	-	6÷3/8	ANSI B1.1		✓	✓	✓	✓	✓	✓	850	10284	294	
	-			35°	-	7/16÷ 1.1/2	ANSI B1.1		✓	✓	✓	✓	✓	✓	850	10285	294	
-	UNEF		-	-	1/4÷2"	529		✓	✓	✓	✓	✓	✓	850	10305	295		
HSS-G	-	M		-	-	3÷10	371/B					✓	✓	✓	700	10162	296	
	-			-	-	3÷42	376/B					✓	✓	✓	700	10165	296	
	-			-	-	2÷10	371/C					✓	✓	✓	700	10168	297	
	-			-	-	3÷42	376/C					✓	✓	✓	700	10171	297	
	-			15°	-	3÷10	371/C-15°					✓	✓	✓	700	10174	298	
	-			15°	-	3÷24	376/C-15°					✓	✓	✓	700	10177	298	
	-			35°	-	2÷10	371/C-35°					✓	✓	✓	700	10183	299	
	-			35°	-	3÷42	376/C-35°					✓	✓	✓	700	10180	299	
	-				-	CORTI SHORT	2÷12	529/B					✓	✓	✓	700	10172	300
	-				35°		2,5÷12	529/C-35°					✓	✓	✓	700	10173	300
	TIN					UTENSILE COMBINATO ATTACCO 1/4" COMBINED 1/4" SHANK	3÷10						✓	✓	✓	1200	10230	301
	-						3÷10						✓	✓	✓	600	10212	301
	-					ATTACCO 1/4" 1/4" SHANK	3÷10						✓	✓	✓	700	10210	302
	-		MF		15°		4÷24	374/C-15°					✓	✓	✓	700	10198	302
	-		BSP		15°		1/8÷1"	374/C-15°					✓	✓	✓	700	10204	303
-	BSPT		-		1"÷2"						✓	✓	✓	700	10139	303		
-	NPT		-	CONICO 1:16 TAPER 1:16	1"÷2"	ANSI B2.1					✓	✓	✓	700	10134	303		

MASCHI A MACCHINA AL COBALTO RIVESTITI AL TiAIN, FILETTATURA METRICA ISO A PASSO GROSSO

HSS-CO TiAIN coated machine taps

10400

HSS-CO

TiAIN

DIN 371/B

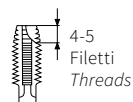
M



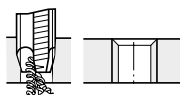
HSS-CO+TiAIN
HV 0,05=3000
T° Max.: 800°C



FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1040003X05	32,439
	4 x 0,7	13	63	4,5	1	1040004X07	32,439
	5 x 0,8	16	70	6	1	1040005X08	32,439
	6 x 1	19	80	6	1	1040006X1	34,552
	8 x 1,25	22	90	8	1	1040008X125	40,901
	10 x 1,5	24	100	10	1	1040010X15	44,317



Art. 10450300
€ 251,026

7 pcs
M 3=12

R ≤ 1400 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

10401

HSS-CO

TiAIN

DIN 376/B

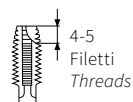
M



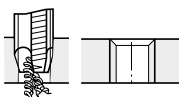
HSS-CO+TiAIN
HV 0,05=3000
T° Max.: 800°C



FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9	1	1040112X175	58,346
	14 x 2	30	110	11	1	1040114X2	74,527
	16 x 2	30	110	12	1	1040116X2	83,927
	18 x 2,5	34	125	14	1	1040118X25	100,134
	20 x 2,5	34	140	16	1	1040120X25	122,690
	22 x 2,5	34	140	18	1	1040122X25	138,205
	24 x 3	38	160	18	1	1040124X3	160,763



R ≤ 1400 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO RIVESTITI AL TiAlN, FILETTATURA METRICA ISO A PASSO GROSSO

HSS-CO TiAlN coated machine taps

10404

HSS-CO

TiAlN

DIN 371/C-35°

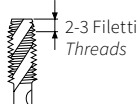
M



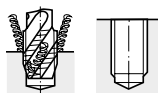
HSS-CO+TiAlN
HV 0,05=3000
T° Max.: 800°C



FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	6	56	3,5	1	1040403X05	38,776
	4 x 0,7	7	63	4,5	1	1040404X07	38,776
	5 x 0,8	8	70	6	1	1040405X08	40,329
	6 x 1	10	80	6	1	1040406X1	41,045
	8 x 1,25	14	90	8	1	1040408X125	50,771
	10 x 1,5	16	100	10	1	1040410X15	55,634



Art. 10450305
€ 280,635

7 pcs
M 3÷12

R ≤ 1400 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

10405

HSS-CO

TiAlN

DIN 376/C-35°

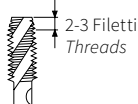
M



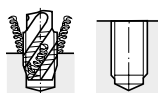
HSS-CO+TiAlN
HV 0,05=3000
T° Max.: 800°C



FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	18	110	9	1	1040512X175	69,912
	14 x 2	20	110	11	1	1040514X2	87,565
	16 x 2	22	110	12	1	1040516X2	98,661
	18 x 2,5	25	125	14	1	1040518X25	117,266
	20 x 2,5	25	140	16	1	1040520X25	142,430
	22 x 2,5	25	140	18	1	1040522X25	160,763
	24 x 3	30	160	18	1	1040524X3	184,738



R ≤ 1400 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO RIVESTITI AL TiN, FILETTATURA METRICA ISO A PASSO GROSSO

HSS-CO TiN coated machine taps, metric thread

10350

HSS-CO

TiN

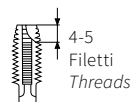
DIN 371/B

M



HSS-CO+TiN
HV 0,05=2500

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1035003X05	29,609
	4 x 0,7	13	63	4,5	1	1035004X07	26,508
	5 x 0,8	16	70	6	1	1035005X08	29,401
	6 x 1	19	80	6	1	1035006X1	30,560
	8 x 1,25	22	90	8	1	1035008X125	39,115
	10 x 1,5	24	100	10	1	1035010X15	42,376



Alto rendimento nella filettatura in acciai ad elevata resistenza sino a $R \leq 1200 \text{ N/mm}^2$, quali acciai da bonifica alto legati, acciai inox, acciai resistenti agli acidi, acciai refrattari. Temperatura max. di lavoro 550° .

High performances in high strength steel $R \leq 1200 \text{ N/mm}^2$, stainless steel, acid resistant steel, high alloy construction steel.

$R \leq 1200 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum



Art. 10390300
€ 218,587

7 pcs
M 3÷12

10351

HSS-CO

TiN

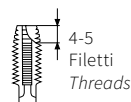
DIN 376/B

M

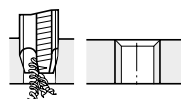


HSS-CO+TiN
HV 0,05=2500

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9	1	1035112X175	50,693
	14 x 2	30	110	11	1	1035114X2	64,462
	16 x 2	30	110	12	1	1035116X2	73,157
	18 x 2,5	34	125	14	1	1035118X25	89,377
	20 x 2,5	34	140	16	1	1035120X25	106,914
	22 x 2,5	34	140	18	1	1035122X25	117,043
	24 x 3	38	160	18	1	1035124X3	141,023



Alto rendimento nella filettatura in acciai ad elevata resistenza sino a $R \leq 1200 \text{ N/mm}^2$, quali acciai da bonifica alto legati, acciai inox, acciai resistenti agli acidi, acciai refrattari. Temperatura max. di lavoro 550° .

High performances in high strength steel $R \leq 1200 \text{ N/mm}^2$, stainless steel, acid resistant steel, high alloy construction steel.

$R \leq 1200 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO RIVESTITI AL TiN, FILETTATURA METRICA ISO A PASSO GROSSO

HSS-CO TiN coated machine taps, metric thread

10354

HSS-CO

TiN

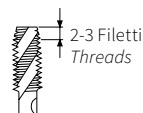
DIN 371/C - 35°

M

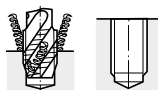


HSS-CO+TiN

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	6	56	3,5	1	1035403X05	35,047
	4 x 0,7	7	63	4,5	1	1035404X07	35,047
	5 x 0,8	8	70	6	1	1035405X08	33,378
	6 x 1	10	80	6	1	1035406X1	34,512
	8 x 1,25	14	90	8	1	1035408X125	44,930
	10 x 1,5	16	100	10	1	1035410X15	50,001



Alto rendimento nella filettatura in acciai ad elevata resistenza sino a $R \leq 1200 \text{ N/mm}^2$, quali acciai da bonifica alto legati, acciai inox, acciai resistenti agli acidi, acciai refrattari. Temperatura max. di lavoro 550° .

High performances in high strength steel $R \leq 1200 \text{ N/mm}^2$, stainless steel, acid resistant steel, high alloy construction steel.

$R \leq 1200 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum



Art. 10390305
€ 253,841

7 pcs
M 3÷12

10355

HSS-CO

TiN

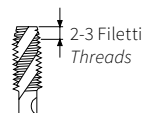
DIN 376/C - 35°

M

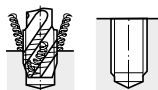


HSS-CO+TiN

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	18	110	9	1	1035512X175	61,227
	14 x 2	20	110	11	1	1035514X2	76,105
	16 x 2	22	110	12	1	1035516X2	86,274
	18 x 2,5	25	125	14	1	1035518X25	104,761
	20 x 2,5	25	140	16	1	1035520X25	124,386
	22 x 2,5	25	140	18	1	1035522X25	143,837
	24 x 3	30	160	18	1	1035524X3	160,763



Alto rendimento nella filettatura in acciai ad elevata resistenza sino a $R \leq 1200 \text{ N/mm}^2$, quali acciai da bonifica alto legati, acciai inox, acciai resistenti agli acidi, acciai refrattari. Temperatura max. di lavoro 550° .

High performances in high strength steel $R \leq 1200 \text{ N/mm}^2$, stainless steel, acid resistant steel, high alloy construction steel.

$R \leq 1200 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO CON ANELLO VERDE UNIVERSALI, FILETTATURA METRICA ISO A PASSO GROSSO

Universal machine taps, metric thread



10362

HSS-CO

TiN

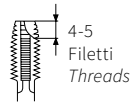
PM

M



HSS-CO (PM) + TiN
HV 0,05=2500

FORM B



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

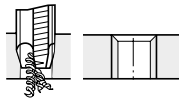
DIN 371/B ISO 2/6H					pcs	cod.	€ cad/each
Ø	l	L	d				
M 2 x 0,4	8	45	2,8	1	1036202X04	31,629	
3 x 0,5	11	56	3,5	1	1036203X05	39,380	
4 x 0,7	13	63	4,5	1	1036204X07	39,380	
5 x 0,8	16	70	6	1	1036205X08	40,322	
6 x 1	19	80	6	1	1036206X1	48,123	
8 x 1,25	22	90	8	1	1036208X125	53,883	
10 x 1,5	24	100	10	1	1036210X15	71,007	



Art. 10390320
€ 398,841

7 pcs
M 3-12

DIN 376/B ISO 2/6H					pcs	cod.	€ cad/each
Ø	l	L	d				
M 12 x 1,75	18	110	9	1	1036212X175	84,726	
14 x 2	20	110	11	1	1036214X2	128,296	
16 x 2	22	110	12	1	1036216X2	128,296	
18 x 2,5	25	125	14	1	1036218X25	208,517	
20 x 2,5	25	140	16	1	1036220X25	215,324	



≤ 3 Ø

Metallurgia delle polveri

L'acciaio superrapido, derivato dal processo di metallurgia delle polveri, offre prestazioni eccezionali: presenta una elevata durezza a caldo e una elevata tenacità, garantita dall'alto contenuto di elementi di lega e dalla microstruttura fortemente omogenea. Gli utensili prodotti con la metallurgia delle polveri (Powder Metallurgy) hanno una durata più elevata ed un rendimento più alto, oltre che una finitura superficiale ottima, che agevola lo scorrimento dei trucioli di lavorazione lontano dalla zona di taglio.

Powder metallurgy

HSS made by powder metallurgy has excellent performances: its homogeneous structure assures high toughness and high resistance. The finishing of the tools are really smooth, so the chip can easily be evacuated far from the cutting zone, thus avoiding built-up edge growth.

10363

HSS-CO

TiN

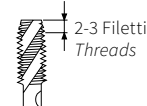
DIN 371/C-40° ISO 2/6H

M



HSS-CO + TiN

FORM C



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



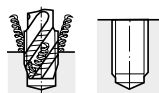
Olio
Oil



Metalli
Metals



Alluminio
Aluminum



≤ 3 Ø

DIN 371/C-40° ISO 2/6H					pcs	cod.	€ cad/each
Ø	l	L	d				
M 2 x 0,4	6	45	2,8	1	1036302X04	29,324	
3 x 0,5	6	56	3,5	1	1036303X05	33,932	
4 x 0,7	7	63	4,5	1	1036304X07	36,183	
5 x 0,8	8	70	6	1	1036305X08	36,655	
6 x 1	10	80	6	1	1036306X1	45,818	
8 x 1,25	14	90	8	1	1036308X125	49,327	
10 x 1,5	16	100	10	1	1036310X15	63,048	

MASCHI A MACCHINA AL COBALTO CON ANELLO VERDE, FILETTATURA METRICA ISO A PASSO GROSSO

Universal machine taps, metric thread



10515

HSS-CO

VAPO

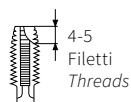
DIN 371/B ISO 2/6H

M



HSS-CO
HV 820=850

FORM B



	VAPO Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1051503X05	23,838
	4 x 0,7	13	63	4,5	1	1051504X07	24,234
	5 x 0,8	16	70	6,0	1	1051505X08	24,234
	6 x 1	19	80	6,0	1	1051506X1	24,678
	8 x 1,25	22	90	8,0	1	1051508X125	28,586
	10 x 1,5	24	100	10,0	1	1051510X15	34,173



Art. 10520307
€ 230,182

7 pcs
M3=12

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

HSS-CO

VAPO

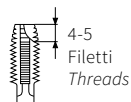
DIN 376/B ISO 2/6H

M

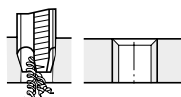


HSS-CO
HV 820=850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9,0	1	1051512X175	43,273
	14 x 2	30	110	11,0	1	1051514X2	63,846
	16 x 2	30	110	12,0	1	1051516X2	63,846
	20 x 2,5	34	140	16,0	1	1051520X25	101,680



R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

Finitura: Ossidazione in vapore di Fe₃O₄ che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe₃O₄, increasing surface hardness and wear resistance.

I maschi con anello verde hanno un alto rendimento nella filettatura di acciai con resistenza R<900 N/mm², materiali mediamente abrasivi, alluminio e sue leghe, acciai in genere e ghise. Il trattamento superficiale di vaporizzazione aumenta la durezza superficiale e la resistenza a usura del maschio.

Green ring machine taps are useful when threading steel with R<900 N/mm², light abrasive materials, aluminium and its alloys, general steels and cast iron. The steam tempering of the tap increases hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO VERDE, FILETTATURA METRICA ISO A PASSO GROSSO

Universal machine taps, metric thread



10516

HSS-CO

VAPO

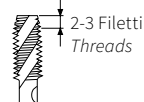
DIN 371/C-40° ISO 2/6H

M

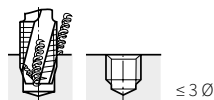


HSS-CO
HV 820=850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	6	56	3,5	1	1051603X05	25,123
	4 x 0,7	7	63	4,5	1	1051604X07	25,123
	5 x 0,8	8	70	6,0	1	1051605X08	26,409
	6 x 1	10	80	6,0	1	1051606X1	27,250
	8 x 1,25	14	90	8,0	1	1051608X125	32,047
	10 x 1,5	16	100	10,0	1	1051610X15	36,795



R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Alluminio
Aluminum

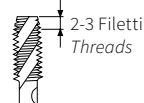


Olio
Oil

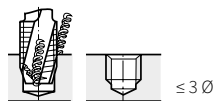


HSS-CO
HV 820=850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	18,5	110	9,0	1	1051612X175	41,987
	16 x 2	20	110	12,0	1	1051616X2	61,720
	20 x 2,5	25	140	16,0	1	1051620X25	93,077



Finitura: Ossidazione in vapore di Fe₃O₄ che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe₃O₄, increasing surface hardness and wear resistance.

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Alluminio
Aluminum



Olio
Oil

I maschi con anello verde hanno un alto rendimento nella filettatura di acciai con resistenza R<900 N/mm², materiali mediamente abrasivi, alluminio e sue leghe, acciai in genere e ghise. Il trattamento superficiale di vaporizzazione aumenta la durezza superficiale e la resistenza a usura del maschio.

Green ring machine taps are useful when threading steel with R<900 N/mm², light abrasive materials, aluminium and its alloys, general steels and cast iron. The steam tempering of the tap increases hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO BIANCO, FILETTATURA METRICA ISO A PASSO GROSSO

White ring machine taps, metric thread



SPECIALE PER ACCIAIO INOX
SPECIAL FOR STAINLESS STEEL

10504

HSS-CO

VAPO

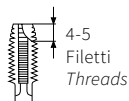
DIN 371/B

M



HSS-CO AISI M35
HV 820=850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1050403X05	25,716
	4 x 0,7	13	63	4,5	1	1050404X07	25,716
	5 x 0,8	16	70	6,0	1	1050405X08	27,662
	6 x 1	19	80	6,0	1	1050406X1	27,662
	8 x 1,25	22	90	8,0	1	1050408X125	31,871
	10 x 1,5	24	100	10,0	1	1050410X15	38,577



Art. 10520300
€ 203,075

7 pcs
M 3=12

R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10505

HSS-CO

VAPO

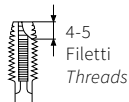
DIN 376/B

M



HSS-CO AISI M35
HV 820=850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9,0	1	1050512X175	46,397
	14 x 2	30	110	11,0	1	1050514X2	59,532
	16 x 2	30	110	12,0	1	1050516X2	67,628
	18 x 2,5	34	125	14,0	1	1050518X25	111,353
	20 x 2,5	34	140	16,0	1	1050520X25	155,628



R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

Per filettature in acciaio inox, acciai per utensili, acciai resistenti al calore, acciai legati in genere, bronzo a truciolo lungo, rame con $R \leq 1000 \text{ N/mm}^2$

For making threads in stainless steel, heat resistant steel, structural steel, long chipping bronze, copper with $R \leq 1000 \text{ N/mm}^2$

Finitura: Ossidazione in vapore di Fe_3O_4 che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe_3O_4 , increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO BIANCO, FILETTATURA METRICA ISO A PASSO GROSSO

White ring machine taps, metric thread



10506

HSS-CO

VAPO

DIN 371/C-40°

M



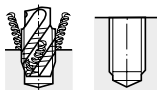
HSS-CO AISI M35
HV 820=850



FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	6	56	3,5	1	1050603X05	32,784
	4 x 0,7	7	63	4,5	1	1050604X07	32,784
	5 x 0,8	8	70	6,0	1	1050605X08	35,110
	6 x 1	10	80	6,0	1	1050606X1	34,763
	8 x 1,25	14	90	8,0	1	1050608X125	40,675
	10 x 1,5	16	100	10,0	1	1050610X15	48,521



Art. 10520301
€ 251,304

7 pcs
M3=12

R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

10507

HSS-CO

VAPO

DIN 376/C-40°

M



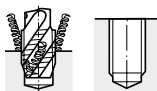
HSS-CO AISI M35
HV 820=850



FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	18	110	9,0	1	1050712X175	63,125
	14 x 2	20	110	11,0	1	1050714X2	79,990
	16 x 2	22	110	12,0	1	1050716X2	97,334
	18 x 2,5	25	125	14,0	1	1050718X25	146,202
	20 x 2,5	25	140	16,0	1	1050720X25	202,080



R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

Per filettature in acciaio inox, acciai per utensili, acciai resistenti al calore, acciai legati in genere, bronzo a truciolo lungo, rame con R≤1000 N/mm²

For making threads in stainless steel, heat resistant steel, structural steel, long chipping bronze, copper with R≤1000 N/mm²

Finitura: Ossidazione in vapore di Fe₃O₄ che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe₃O₄, increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO BLU, FILETTATURA METRICA ISO

Blue ring machine taps, metric thread



SPECIALI PER ACCIAI REFRAZZARI, ACCIAI DA TEMpra E CEMENTAZIONE
SPECIAL FOR WEAR AND HEAT RESISTANT STEEL

10500

HSS-CO

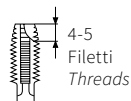
DIN 371/B

M



HSS-CO AISI M35
HV 850=880

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1050003X05	24,080
	4 x 0,7	13	63	4,5	1	1050004X07	24,080
	5 x 0,8	16	70	6,0	1	1050005X08	26,263
	6 x 1	19	80	6,0	1	1050006X1	26,263
	8 x 1,25	22	90	8,0	1	1050008X125	30,615
	10 x 1,5	24	100	10,0	1	1050010X15	36,095



Art. 10520302
€ 196,529

7 pcs
M 3-12

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10501

HSS-CO

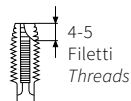
DIN 376/B

M



HSS-CO AISI M35
HV 850=880

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9	1	1050112X175	41,915
	14 x 2	30	110	11	1	1050114X2	59,390
	16 x 2	30	110	12	1	1050116X2	66,875
	18 x 2,5	34	125	14	1	1050118X25	104,538
	20 x 2,5	34	140	16	1	1050120X25	145,961



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

Per filettatura in acciai resistenti all'usura quali gli acciai refrattari, acciai legati da tempra e cementazione, acciai per utensili con R≤1200 N/mm².

For use in wear resistant steel, heat resistant steel, tool steel with R≤1200 N/mm².

MASCHI A MACCHINA AL COBALTO CON ANELLO BLU, FILETTATURA METRICA ISO

Blue ring machine taps, metric thread



10502

HSS-CO DIN 371/C-40°

M

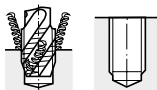


HSS-CO AISI M35
HV 850=880

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	6	56	3,5	1	1050203X05	30,580
	4 x 0,7	7	63	4,5	1	1050204X07	30,580
	5 x 0,8	8	70	6,0	1	1050205X08	33,948
	6 x 1	10	80	6,0	1	1050206X1	35,345
	8 x 1,25	14	90	8,0	1	1050208X125	38,605
	10 x 1,5	16	100	10,0	1	1050210X15	45,049



Art. 10520303
€ 244,825

7 pcs
M 3=12

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

10503

HSS-CO DIN 376/C-40°

M

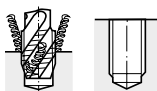


HSS-CO AISI M35
HV 850=880

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	18	110	9	1	1050312X175	53,955
	14 x 2	20	110	11	1	1050314X2	68,341
	16 x 2	22	110	12	1	1050316X2	83,150
	18 x 2,5	25	125	14	1	1050318X25	114,882
	20 x 2,5	25	140	16	1	1050320X25	164,180



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

Per filettatura in acciai resistenti all'usura quali gli acciai refrattari, acciai legati da tempra e cementazione, acciai per utensili con R≤1000 N/mm².

For use in wear resistant steel, heat resistant steel, tool steel with R≤1000 N/mm².

MASCHI A MACCHINA AL COBALTO CON ANELLO ROSSO, FILETTATURA METRICA ISO

Red ring machine taps, metric thread



SPECIALI PER ACCIAI REFRATTARI, ACCIAI DA TEMpra E CEMENTAZIONE
SPECIAL FOR WEAR AND HEAT RESISTANT STEEL

10510

HSS-CO

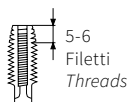
DIN 371/A

M

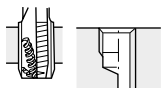


HSS-CO AISI M35
HV 820=850

FORM A



	Ø	l	L	d	pcs	cod.	€ cad/each
M	4 x 0,7	9	63	4,5	1	1051004X07	29,536
	5 x 0,8	11	70	6	1	1051005X08	32,810
	6 x 1	12	80	6	1	1051006X1	32,810
	8 x 1,25	15	90	8	1	1051008X125	36,095
	10 x 1,5	16	100	10	1	1051010X15	42,655



Art. 10520310
€ 164,492

5 pcs
M 4÷10

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

Per filettatura in acciai resistenti all'usura quali gli acciai refrattari, acciai legati da tempra e cementazione, acciai per utensili con R ≤ 1200 N/mm². Imbocco FORM A.

For use in wear resistant steel, heat resistant steel, tool steel with R ≤ 1200 N/mm². FORM A.

MASCHI A MACCHINA AL COBALTO CON ANELLO GIALLO,
FILETTATURA METRICA ISO
Yellow ring machine taps, metric thread



10511

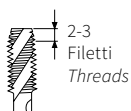
HSS-CO DIN 371/C-40°

M

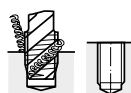


HSS-CO AISI M35
HV 820=850

2 SPIRALI
2 FLUTES



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	6	56	3,5	1	1051103x05	39,509
	4 x 0,7	7	63	4,5	1	1051104x07	39,509
	5 x 0,8	8	70	6	1	1051105x08	42,748
	6 x 1	10	80	6	1	1051106x1	42,748
	8 x 1,25	14	90	8	1	1051108x125	49,120
	10 x 1,5	16	100	10	1	1051110x15	59,506



Art. 10520305
€ 269,071

7 pcs
M 3÷12

R ≤ 850 N/mm²

Applicazioni
Applications



Alluminio
Aluminum



Truciolo lungo
Long chip

10512

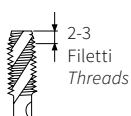
HSS-CO DIN 376/C-40°

M

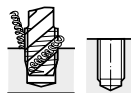


HSS-CO AISI M35
HV 820=850

2 SPIRALI
2 FLUTES



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	18	110	9	1	1051212X175	79,859
	14 x 2	20	110	11	1	1051214X2	104,607
	16 x 2	22	110	12	1	1051216X2	118,779



R ≤ 850 N/mm²

Applicazioni
Applications



Alluminio
Aluminum



Truciolo lungo
Long chip

MASCHI A MACCHINA AL COBALTO CON ANELLO NERO, FILETTATURA METRICA ISO

Black ring machine taps, metric thread

SPECIALI PER GHISA
SPECIAL FOR CAST IRON

10508

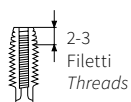
HSS-CO **DIN 371/C**

M

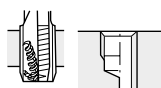


HSS-CO AISI M35
HV 820=850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1050803X05	21,385
	4 x 0,7	13	63	4,5	1	1050804X07	21,385
	5 x 0,8	16	70	6	1	1050805X08	23,001
	6 x 1	19	80	6	1	1050806X1	23,001
	8 x 1,25	22	90	8	1	1050808X125	26,502
	10 x 1,5	24	100	10	1	1050810X15	32,626



Art. 10520304
€ 211,559

7 pcs
M 3=12

Applicazioni
Applications



Ghisa
Cast Iron



Alluminio
Aluminum



Truciolo lungo
Long chip



Leghe leggere
Light alloys



Plastica dura
Hard plastic

Per filettatura in fori ciechi e passanti in ghisa grigia e sferoidale, leghe di magnesio, bronzo e alluminio a truciolo corto, plastica dura.

For making threads into through and blind holes, cast iron, magnesium alloys, bronze and short chip aluminium, hard plastics.

10509

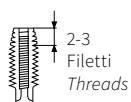
HSS-CO **DIN 376/C**

M

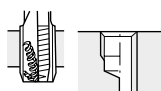


HSS-CO AISI M35
HV 820=850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9	1	1050912X175	38,581
	14 x 2	30	110	11	1	1050914X2	49,503
	16 x 2	30	110	12	1	1050916X2	56,235
	18 x 2,5	34	125	14	1	1050918X25	77,162
	20 x 2,5	34	140	16	1	1050920X25	107,841



Applicazioni
Applications



Ghisa
Cast Iron



Alluminio
Aluminum



Truciolo lungo
Long chip



Leghe leggere
Light alloys



Plastica dura
Hard plastic

Nitrurato / Nitrited

L'arricchimento della superficie con nitrato e carbonio diminuisce la tendenza all'incollamento dei trucioli e aumenta la durezza superficiale e la resistenza ad usura.

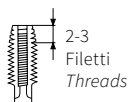
The surface enrichment with nitrate and carbon is aimed to avoiding chips sticking on the tool and to increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO ARANCIO, FILETTATURA METRICA ISO

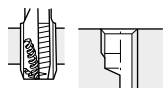
Orange ring machine taps, metric thread

**10513****HSS-CO** **DIN 371/C****M**HSS-CO AISI M35
HV 820-850

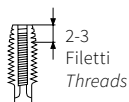
FORM C



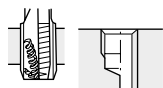
	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1051303x05	28,807
	4 x 0,7	13	63	4,5	1	1051304x07	28,807
	5 x 0,8	16	70	6	1	1051305x08	31,229
	6 x 1	19	80	6	1	1051306x1	31,229
	8 x 1,25	22	90	8	1	1051308x125	35,599
	10 x 1,5	24	100	10	1	1051310x15	43,049

Art. 10520306
€ 232,2605 pcs
M 3-12**R ≤ 850 N/mm²**Applicazioni
ApplicationsOttone
BrassTruciolo corto
Short chip**10514****HSS-CO** **DIN 376/C****M**HSS-CO AISI M35
HV 820-850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9	1	1051412X175	58,072
	14 x 2	30	110	11	1	1051414X2	74,264
	16 x 2	30	110	12	1	1051416X2	85,103

**R ≤ 850 N/mm²**Applicazioni
ApplicationsOttone
BrassTruciolo corto
Short chip

MASCHI A MACCHINA AL COBALTO CON TRATTAMENTO DI RIVESTIMENTO SUPERFICIALE

Machine taps with coating treatment

10297

HSS-CO

VAPO

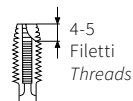
DIN 371/B

M

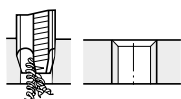


HSS-CO
HV 820+850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1029703X05	19,704
	4 x 0,7	13	63	4,5	1	1029704X07	19,704
	5 x 0,8	16	70	6	1	1029705X08	20,805
	6 x 1	19	80	6	1	1029706X1	20,805
	8 x 1,25	22	90	8	1	1029708X125	24,599
	10 x 1,5	24	100	10	1	1029710X15	29,428



Art. 10345315
€ 186,146

7 pcs
M 3-12

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10298

HSS-CO

VAPO

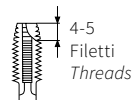
DIN 376/B

M

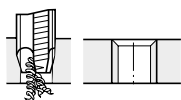


HSS-CO
HV 820+850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9	1	1029812X175	36,841
	14 x 2	30	110	11	1	1029814X2	49,981
	16 x 2	30	110	12	1	1029816X2	57,935
	18 x 2,5	34	125	14	1	1029818X25	92,020
	20 x 2,5	34	140	16	1	1029820X25	132,961



R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

Finitura: Ossidazione in vapore di Fe₃O₄ che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe₃O₄, increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON TRATTAMENTO DI RIVESTIMENTO SUPERFICIALE

Machine taps with coating treatment

10299

HSS-CO

VAPO

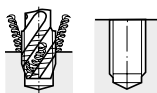
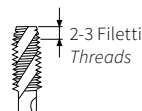
DIN 371/C - 35°

M



HSS-CO
HV 820÷850

FORM C



R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	6	56	3,5	1	1029903X05	28,103
	4 x 0,7	7	63	4,5	1	1029904X07	28,103
	5 x 0,8	8	70	6	1	1029905X08	29,203
	6 x 1	10	80	6	1	1029906X1	29,203
	8 x 1,25	14	90	8	1	1029908X125	35,071
	10 x 1,5	16	100	10	1	1029910X15	40,927



Art. 10345316
€ 228,455

7 pcs
M3÷12

10300

HSS-CO

VAPO

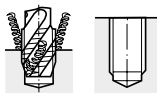
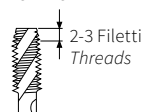
VAPO DIN 376/C - 35°

M



HSS-CO
HV 820÷850

FORM C



R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	18	110	9	1	1030012X175	50,324
	14 x 2	20	110	11	1	1030014X2	64,374
	16 x 2	22	110	12	1	1030016X2	69,029
	18 x 2,5	25	125	14	1	1030018X25	108,053
	20 x 2,5	25	140	16	1	1030020X25	141,440

Per acciai con R ≤ 900 N/mm², materiali mediamente abrasivi, ghisa e metalli in genere.
Suitable for steel with R ≤ 900 N/mm², quite abrasive materials, cast iron, metals.

Finitura: Ossidazione in vapore di Fe₃O₄ che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe₃O₄, increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE, IMB. CORRETTO, FILETTATURA METRICA ISO PASSO GROSSO

Machine taps, spiral point, metric thread

10250

HSS-CO

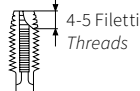
DIN 371/B ISO 2/6H

M



HSS-CO AISI M35
HV 820÷850

FORM B



$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals

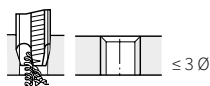


Olio
Oil



MICRO MACHINE
TAPS HSS-CO

	\emptyset	<i>l</i>	L	d	pcs	cod.	€ cad/each
M	1 x 0,25	5	40	2,5	1	1025001x025	63,236
	1,1 x 0,25	5	40	2,5	1	10250011x025	63,236
	1,2 x 0,25	5	40	2,5	1	10250012x025	63,236
	1,4 x 0,3	7	40	2,5	1	10250014x030	56,912
	1,6 x 0,35	8	40	2,5	1	10250016x035	56,912
	1,7 x 0,35	8	40	2,5	1	10250017x035	56,912
	1,8 x 0,35	8	40	2,5	1	10250018x035	56,912
	2 x 0,4	8	45	2,8	1	1025002x04	27,823
	2,5 x 0,45	9	50	2,8	1	10250025x045	27,823
	3 x 0,5	11	56	3,5	1	1025003x05	15,873
	3,5 x 0,6	13	56	4	1	10250035x06	22,915
	4 x 0,7	13	63	4,5	1	1025004x07	15,873
	5 x 0,8	16	70	6	1	1025005x08	16,239
	6 x 1	19	80	6	1	1025006x1	17,163
	7 x 1	19	80	7	1	1025007x1	22,980
	8 x 1,25	22	90	8	1	1025008x125	19,971
	9 x 1,25	22	90	9	1	1025009x125	23,258
10 x 1,5	24	100	10	1	1025010x15	23,258	



Art. 10345300
€ 132,559

7 pcs
M 3÷12



Art. 10345306
€ 156,458

14 pcs
M 3÷12
 \emptyset 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2

Per fori passanti in acciai con $R \leq 850 \text{ N/mm}^2$, ghisa, metalli non ferrosi a truciolo lungo.
For through holes in steel with $R \leq 850 \text{ N/mm}^2$, cast iron, non ferrous metals with long chip

10253

HSS-CO

DIN 376/B ISO 2/6H

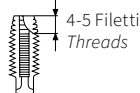
M



HSS-CO AISI M35
HV 820÷850

Gambo cilindrico $\emptyset \leq M3$
Round shank $\emptyset \leq M3$

FORM B



$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



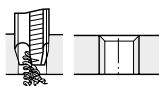
Acciaio
Steel



Metalli
Metals



Olio
Oil



	\emptyset	<i>l</i>	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	2,2	1	1025303X05	20,945
	4 x 0,7	13	63	2,8	1	1025304X07	21,284
	5 x 0,8	16	70	3,5	1	1025305X08	22,082
	6 x 1	19	80	4,5	1	1025306X1	22,259
	8 x 1,25	22	90	6	1	1025308X125	24,031
	10 x 1,5	24	100	7	1	1025310X15	28,012
	12 x 1,75	29	110	9	1	1025312X175	30,175
	14 x 2	30	110	11	1	1025314X2	41,988
	16 x 2	30	110	12	1	1025316X2	49,412
	18 x 2,5	34	125	14	1	1025318X25	61,971
	20 x 2,5	34	140	16	1	1025320X25	78,094
	22 x 2,5	34	140	18	1	1025322X25	98,946
	24 x 3	38	160	18	1	1025324X3	111,428
	27 x 3	38	160	20	1	1025327X3	170,720
	30 x 3,5	45	180	22	1	1025330X35	208,465
	33 x 3,5	50	180	25	1	1025333X35	264,283
	36 x 4	56	200	28	1	1025336X4	295,470
	39 x 4	60	200	32	1	1025339X4	415,503
	42 x 4,5	60	200	32	1	1025342X45	442,854
	45 x 4,5	65	220	36	1	1025345X45	492,447
	48 x 5	70	250	36	1	1025348X5	589,288
	52 x 5	70	250	40	1	1025352X5	686,144
	56 x 5,5	70	250	40	1	1025356X55	1.520,016
	60 x 5,5	75	280	45	1	1025360X55	1.749,834
	64 x 6	80	315	50	1	1025364X6	2.147,063
	68 x 6	80	315	50	1	1025368X6	2.324,354

MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE,
IMB. "C", FILETTATURA ISO PASSO GROSSO
Machine taps, "C" chamfer form, metric thread

10251

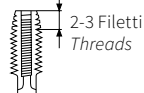
HSS-CO DIN 371/C ISO 2/6H

M



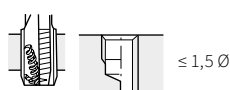
HSS-CO AISI M35
HV 820÷850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	2 x 0,4	8	45	2,8	1	1025102X04	21,044
	2,3 x 0,4	9	45	2,8	1	10251023X04	21,044
	2,5 x 0,45	9	50	2,8	1	10251025X045	21,044
	2,6 x 0,45	9	50	2,8	1	10251026X045	21,044
	3 x 0,5	11	56	3,5	1	1025103X05	15,295
	3,5 x 0,6	13	56	4	1	10251035X06	16,363
	4 x 0,7	13	63	4,5	1	1025104X07	15,295
	5 x 0,8	16	70	6	1	1025105X08	15,295
	6 x 1	19	80	6	1	1025106X1	16,299
	7 x 1	19	80	7	1	1025107X1	20,326
	8 x 1,25	22	90	8	1	1025108X125	18,501
	10 x 1,5	24	100	10	1	1025110X15	21,749

R ≤ 850 N/mm²



Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

Per fori ciechi e passanti in acciai e ghisa con ≤ 850 N/mm²
For blind and through holes in steel with ≤ 850 N/mm²

10254

HSS-CO DIN 376/C ISO 2/6 H

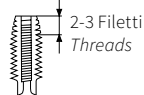
M



HSS-CO AISI M35
HV 820÷850

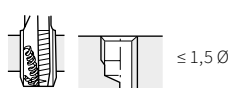
Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	2,2	1	1025403X05	17,190
	4 x 0,7	13	63	2,8	1	1025404X07	17,476
	5 x 0,8	16	70	3,5	1	1025405X08	18,101
	6 x 1	19	80	4,5	1	1025406X1	18,280
	8 x 1,25	22	90	6	1	1025408X125	20,752
	10 x 1,5	24	100	7	1	1025410X15	24,205
	12 x 1,75	29	110	9	1	1025412X175	29,099
	14 x 2	30	110	11	1	1025414X2	36,273
	16 x 2	32	110	12	1	1025416X2	42,668
	18 x 2,5	34	125	14	1	1025418X25	63,767
	20 x 2,5	34	140	16	1	1025420X25	80,796
	22 x 2,5	34	140	18	1	1025422X25	101,644
	24 x 3	38	160	18	1	1025424X3	110,246
	27 x 3	38	160	20	1	1025427X3	145,755
	30 x 3,5	45	180	22	1	1025430X35	199,667
	33 x 3,5	50	180	25	1	1025433X35	228,867
	36 x 4	56	200	28	1	1025436X4	255,324
	39 x 4	60	200	32	1	1025439X4	331,612
	42 x 4,5	60	200	32	1	1025442X45	370,535
45 x 4,5	65	220	36	1	1025445X45	425,032	
48 x 5	70	250	36	1	1025448X5	510,662	
52 x 5	70	250	40	1	1025452X5	604,068	

R ≤ 850 N/mm²



Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO, SCANALATURE DESTRE 15°,
 IMB. "C", FILETTATURA METRICA ISO PASSO GROSSO
 Machine taps, 15° spiral flute, metric thread

10256

HSS-CO DIN 371/C-15° ISO 2/6H

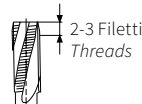
M



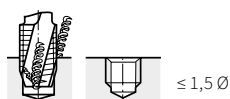
HSS-CO AISI M35
 HV 820÷850



FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1025603X05	20,131
	4 x 0,7	13	63	4,5	1	1025604X07	20,131
	5 x 0,8	16	70	6	1	1025605X08	20,131
	6 x 1	19	80	6	1	1025606X1	21,188
	8 x 1,25	22	90	8	1	1025608X125	23,157
	10 x 1,5	24	100	10	1	1025610X15	27,263



Art. 1034531I
 € 150,891

7 pcs
 M 3÷12



Art. 10345312
 € 190,384

14 pcs
 M 3÷12
 Ø 2,5 - 3,3 - 4,2 - 5
 6,8 - 8,5 - 10,2

R ≤ 850 N/mm²

Applicazioni
 Applications



Inox
 Stainless



Acciaio
 Steel



Metalli
 Metals



Olio
 Oil

Per fori ciechi in acciai con R ≤ 850 N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo.

For blind holes in steel with R ≤ 850 N/mm², malleable cast iron, non ferrous metals with long chip.

10258

HSS-CO DIN 376/C-15° ISO 2/6H

M

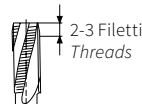


HSS-CO AISI M35
 HV 820÷850

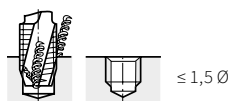
Gambo cilindrico
 Ø ≤ M3
 Round shank
 Ø ≤ M3



FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	2,2	1	1025803X05	21,122
	4 x 0,7	13	63	2,8	1	1025804X07	22,138
	5 x 0,8	16	70	3,5	1	1025805X08	22,138
	6 x 1	19	80	4,5	1	1025806X1	23,157
	8 x 1,25	22	90	6	1	1025808X125	24,773
	10 x 1,5	24	100	7	1	1025810X15	31,031
	12 x 1,75	29	110	9	1	1025812X175	35,295
	14 x 2	30	110	11	1	1025814X2	44,643
	16 x 2	30	110	12	1	1025816X2	52,062
	18 x 2,5	34	125	14	1	1025818X25	79,409
	20 x 2,5	34	140	16	1	1025820X25	84,462
	22 x 2,5	34	140	18	1	1025822X25	107,158
	24 x 3	38	160	18	1	1025824X3	114,763



R ≤ 850 N/mm²

Applicazioni
 Applications



Inox
 Stainless



Acciaio
 Steel



Metalli
 Metals



Olio
 Oil

**MASCHI A MACCHINA AL COBALTO, SCANALATURE DESTRE 35°,
IMB. "C", FILETTATURA METRICA ISO**
Machine taps, 35° spiral flute, metric coarse thread

10255

HSS-CO DIN 371/C-35° ISO 2/6H

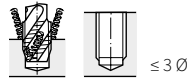
M



HSS-CO AISI M35
HV 820±850

FORM C

2-3 Filetti
Threads



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



MICRO MACHINE
TAPS HSS-CO

	Ø	l	L	d	pcs	cod.	€ cad/each
M	1 x 0,25	4	40	2,5	1	1025501x025	80,837
	1,1 x 0,25	4	40	2,5	1	10255011x025	80,837
	1,2 x 0,25	4	40	2,5	1	10255012x025	80,837
	1,4 x 0,30	5	40	2,5	1	10255014x030	73,013
	1,6 x 0,35	6	40	2,5	1	10255016x035	73,013
	1,7 x 0,35	6	40	2,5	1	10255017x035	73,013
	1,8 x 0,35	6	40	2,5	1	10255018x035	73,013
	2 x 0,4	6	45	2,8	1	1025502X04	33,899
	2,5 x 0,45	6	50	2,8	1	10255025X045	33,899
	3 x 0,5	6	56	3,5	1	1025503X05	23,755
	3,5 x 0,6	13	56	4	1	10255035X06	31,370
	4 x 0,7	7	63	4,5	1	1025504X07	23,755
	5 x 0,8	8	70	6	1	1025505X08	23,939
	6 x 1	10	80	6	1	1025506X1	25,033
	7 x 1	19	80	7	1	1025507X1	36,506
	8 x 1,25	14	90	8	1	1025508X125	27,420
9 x 1,25	14	90	9	1	1025509X125	32,829	
10 x 1,5	16	100	10	1	1025510X15	32,829	



Art. 10345305
€ 163,589

7 pcs
M 3-12



Art. 10345307
€ 197,426

14 pcs
M 3-12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



Art. 10345310
€ 284,859

14 pcs
DIN 371/
B+371/C 35°

10257

HSS-CO DIN 376/C-35° ISO 2/6H

M



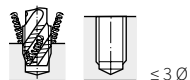
HSS-CO AISI M35
HV 820±850

Gambo cilindrico
Ø ≤ M3

Round shank
Ø ≤ M3

FORM C

2-3 Filetti
Threads



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	5	56	2,2	1	1025703X05	24,889
	4 x 0,7	7	63	2,8	1	1025704X07	26,128
	5 x 0,8	8	70	3,5	1	1025705X08	26,128
	6 x 1	10	80	4,5	1	1025706X1	26,128
	8 x 1,25	13	90	6	1	1025708X125	28,436
	10 x 1,5	15	100	7	1	1025710X15	35,530
	12 x 1,75	18	110	9	1	1025712X175	41,956
	14 x 2	20	110	11	1	1025714X2	53,040
	16 x 2	22	110	12	1	1025716X2	64,553
	18 x 2,5	25	125	14	1	1025718X25	84,893
	20 x 2,5	25	140	16	1	1025720X25	93,997
	22 x 2,5	25	140	18	1	1025722X25	115,449
	24 x 3	30	160	18	1	1025724X3	125,621
	27 x 3	30	160	20	1	1025727X3	185,091
	30 x 3,5	35	180	22	1	1025730X35	226,558
	33 x 3,5	35	180	25	1	1025733X35	273,941
	36 x 4	40	200	28	1	1025736X4	353,543
	39 x 4	40	200	32	1	1025739X4	462,203
	42 x 4,5	45	200	32	1	1025742X45	527,066
	45 x 4,5	45	220	36	1	1025745X45	588,692
	48 x 5	50	250	36	1	1025748X5	668,162
	52 x 5	50	250	40	1	1025752X5	793,029
	56 x 5,5	70	250	40	1	1025756X55	1.732,025
	60 x 5,5	70	280	45	1	1025760X55	1.986,640
64 x 6	75	315	50	1	1025764X6	2.443,970	
68 x 6	75	315	50	1	1025768X6	2.646,688	

MASCHI A MACCHINA AL COBALTO "LUNGI", FILETTATURA METRICA ISO A PASSO GROSSO

Long machine taps, ISO metric coarse threads

10291

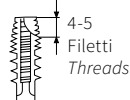
HSS-CO ≈ **DIN 371/B ISO 2/6H**

M



HSS-CO AISI M35
HV 820÷850
Gambo rinforzato
Reinforced shank

FORM B



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel

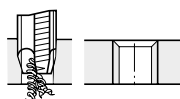


Metalli
Metals



Olio
Oil

	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	100	11	3,5	1	1029103100	28,544
	4 x 0,7	100	13	4,5	1	1029104100	28,544
	4 x 0,7	120	13	4,5	1	1029104120	30,323
	5 x 0,8	100	16	6	1	1029105100	30,323
	5 x 0,8	120	16	6	1	1029105120	32,650
	5 x 0,8	150	16	6	1	1029105150	34,867
	6 x 1	100	19	6	1	1029106100	30,323
	6 x 1	120	19	6	1	1029106120	32,650
	6 x 1	150	19	6	1	1029106150	34,867
	8 x 1,25	120	22	8	1	1029108120	37,210
	8 x 1,25	150	22	8	1	1029108150	43,097
	10 x 1,5	120	24	10	1	1029110120	43,097
	10 x 1,5	150	24	10	1	1029110150	52,419
	12 x 1,75	120	29	12	1	1029112120	49,969
	12 x 1,75	150	29	12	1	1029112150	60,101



10292

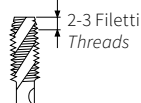
HSS-CO ≈ **DIN 371/C-35° ISO 2/6H**

M



HSS-CO AISI M35
HV 820÷850

FORM C



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



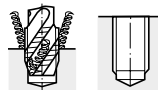
Metalli
Metals



Alluminio
Aluminum



Olio
Oil

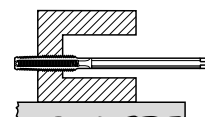


	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	100	6	3,5	1	1029203100	33,759
	4 x 0,7	100	7	4,5	1	1029204100	33,759
	4 x 0,7	120	7	4,5	1	1029204120	34,867
	5 x 0,8	100	8	6	1	1029205100	36,102
	5 x 0,8	120	8	6	1	1029205120	38,427
	5 x 0,8	150	8	6	1	1029205150	41,879
	6 x 1	100	10	6	1	1029206100	36,102
	6 x 1	120	10	6	1	1029206120	38,427
	6 x 1	150	10	6	1	1029206150	41,879
	8 x 1,25	120	14	8	1	1029208120	44,206
	8 x 1,25	150	14	8	1	1029208150	48,862
	10 x 1,5	120	16	10	1	1029210120	51,201
	10 x 1,5	150	16	10	1	1029210150	59,415
	12 x 1,75	120	18	12	1	1029212120	53,392
	12 x 1,75	150	18	12	1	1029212150	63,660



Per maschiature in acciai con R_s850 N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai refrattari, acciai inox.

For threading steel with R_s850 N/mm², malleable cast iron, nonferrous metal with long chips, heat-resistant and refractory steel, stainless steel.



MASCHI A MACCHINA AL COBALTO CON CANALINA DI REFRIGERAZIONE INTERNA, FILETTATURA METRICA ISO A PASSO GROSSO

Machine taps with internal cooling system, ISO metric thread

10340

HM

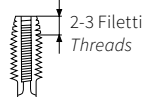
DIN 371/C ISO 6HX
Hm solid carbide

M



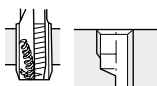
HM
SOLID CARBIDE

FORM C



con canalina
internal cooling system

	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	8	56	3,5	1	1034003X05	167,567
	4 x 0,7	10	63	4,5	1	1034004X07	167,567
	5 x 0,8	10	70	6	1	1034005X08	145,500
	6 x 1	12	80	6	1	1034006X1	197,822
	8 x 1,25	16	90	8	1	1034008X125	300,225
	10 x 1,5	18	100	10	1	1034010X15	300,225



R ≤ 1300 N/mm²

Applicazioni
Applications



Altissimo rendimento nella maschiatura di acciai ad alta resistenza sino R_s1300 N/mm², quali acciai inox, acciai resistenti alla corrosione, acciai refrattari, acciai da bonifica alto legati trattati. Temperatura operativa sino a 800°

High performances in high strength steel with R_s1300 N/mm², stainless steel, heat resistant steel, high alloy steel.

10330

HSS-CO

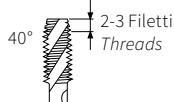
DIN 371/C-40° ISO 2/6H

M



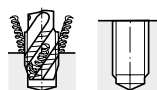
HSS-CO AISI M35
HV 820+850

FORM C



con canalina
internal cooling system

	Ø	l	L	d	pcs	cod.	€ cad/each
M	5 x 0,8	8,5	70	6	1	1033005X08	104,730
	6 x 1	11	80	6	1	1033006X1	104,730
	8 x 1,25	14	90	8	1	1033008X125	104,730
	10 x 1,5	16	100	10	1	1033010X15	148,947



R ≤ 850 N/mm²

Applicazioni
Applications



MASCHI A MACCHINA AL COBALTO, CAVE DIRITTE E FILETTI ALTERNATI, IMB. CORRETTO, FILETTATURA METRICA ISO

Machine taps, straight flutes, interrupted threads, spiral point

10261

HSS-CO

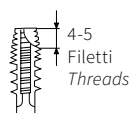
DIN 371/B ISO 2/6H

Serie lunga - M
Long serie

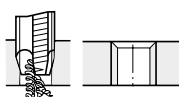


HSS-CO AISI M35
HV 820÷850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1026103X05	22,673
	4 x 0,7	13	63	4,5	1	1026104X07	22,673
	5 x 0,8	16	70	6	1	1026105X08	24,267
	6 x 1	19	80	6	1	1026106X1	24,267
	8 x 1,25	22	90	8	1	1026108X125	29,782
	10 x 1,5	24	100	10	1	1026110X15	35,542



R ≥ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

10262

HSS-CO

DIN 376/B ISO 2/6H

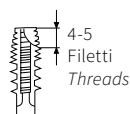
Serie lunga - M
Long serie



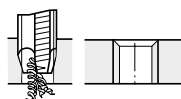
HSS-CO AISI M35
HV 820÷850

Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	2,2	1	1026203X05	24,403
	4 x 0,7	13	63	2,8	1	1026204X07	24,403
	5 x 0,8	16	70	3,5	1	1026205X08	25,639
	6 x 1	19	80	4,5	1	1026206X1	25,639
	8 x 1,25	22	90	6	1	1026208X125	30,885
	10 x 1,5	24	100	7	1	1026210X15	40,768
	12 x 1,75	29	110	9	1	1026212X175	47,225
	14 x 2	30	110	11	1	1026214X2	61,154
	18 x 2,5	34	125	14	1	1026218X25	88,328
	20 x 2,5	34	140	16	1	1026220X25	119,520
	22 x 2,5	34	140	18	1	1026222X25	137,437
	24 x 3	38	160	18	1	1026224X3	146,703



Maschi con filetto alternato

Il filetto alternato assicura meno attrito e quindi meno resistenza, particolarmente importante in fase di filettatura di materiali resilienti e difficili da lavorare (quali per esempio alluminio o bronzo). Il lubrificante penetra più agevolmente sino al bordo tagliente, riducendo la coppia generata.

Per filettature in fori passanti in acciai con R_z≥900 N/mm², acciai da bonifica e cementazione, acciai inox, materiali di difficile truciolabilità, acciai da utensile, bronzi e leghe di rame, alluminio e leghe, materiali sintetici duri.

Taps with interrupted thread.

The interrupted thread ensures less friction and therefore less resistance, which is particularly important when threading resilient and difficult-to-work materials (such as aluminum or bronze). The lubricant penetrates more easily up to the cutting edge, reducing the torque generated.

For through holes in steel with R_z≥900 N/mm², high alloy steel, tool steel, stainless steel, bronze, hard sinterized materials.

R ≥ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

MASCHI A MACCHINA AL COBALTO "SINISTRI", FILETTATURA METRICA ISO A PASSO GROSSO

Machine taps, "left hand", metric coarse thread

10277

HSS-CO DIN 371/B

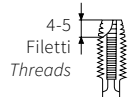
M

Sinistra
Left hand

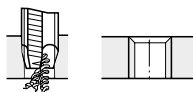


HSS-CO AISI M35
HV 820-850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1027703X05	34,242
	4 x 0,7	13	63	4,5	1	1027704X07	34,242
	5 x 0,8	16	70	6,0	1	1027705X08	35,166
	6 x 1	19	80	6,0	1	1027706X1	35,166
	8 x 1,25	22	90	8,0	1	1027708X125	40,954
	10 x 1,5	24	100	10,0	1	1027710X15	46,549



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10278

HSS-CO DIN 376/B

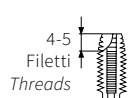
M

Sinistra
Left hand

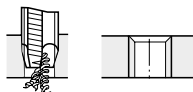


HSS-CO AISI M35
HV 820-850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9,0	1	1027812X175	58,673
	14 x 2	30	110	11,0	1	1027814X2	80,307
	16 x 2	32	110	12,0	1	1027816X2	93,823
	18 x 2,5	34	125	14,0	1	1027818X25	123,111
	20 x 2,5	34	140	16,0	1	1027820X25	178,129
	22 x 2,5	34	140	18,0	1	1027822X25	222,175
	24 x 3	38	160	18,0	1	1027824X3	238,044
	27 x 3	38	160	20,0	1	1027827X3	394,757
	30 x 3,5	45	180	22,0	1	1027830X35	430,550



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO "SINISTRI", FILETTATURA METRICA ISO A PASSO GROSSO

Machine taps, "left hand", metric coarse thread

10263

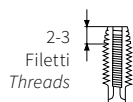
HSS-CO DIN 371/C

M Sinistra
Left hand

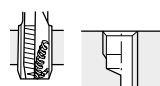


HSS-CO AISI M35
HV 820+850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1026303X05	29,539
	4 x 0,7	13	63	4,5	1	1026304X07	29,539
	5 x 0,8	16	70	6,0	1	1026305X08	30,580
	6 x 1	19	80	6,0	1	1026306X1	30,580
	8 x 1,25	22	90	8,0	1	1026308X125	37,115
	10 x 1,5	24	100	10,0	1	1026310X15	42,197



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10264

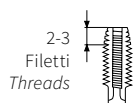
HSS-CO DIN 376/C

M Sinistra
Left hand

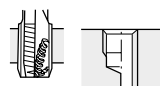


HSS-CO AISI M35
HV 820+850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9,0	1	1026412X175	50,189
	14 x 2	30	110	11,0	1	1026414X2	70,777
	16 x 2	30	110	12,0	1	1026416X2	96,064
	18 x 2,5	34	125	14,0	1	1026418X25	132,282
	20 x 2,5	34	140	16,0	1	1026420X25	183,512
	22 x 2,5	34	140	18,0	1	1026422X25	193,889
	24 x 3	38	160	18,0	1	1026424X3	207,739



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO "SINISTRI",
SCAN. DESTRE 35°, IMB. "C", FILETTATURA METRICA ISO
Machine taps "left hand", 35° spiral flute, metric coarse thread

10279

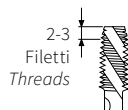
HSS-CO DIN 371/C-35° - ISO 2/6H

M Sinistra
Left hand

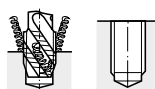


HSS-CO AISI M35
HV 820-850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	6	56	3,5	1	1027903X05	38,771
	4 x 0,7	7	63	4,5	1	1027904X07	38,771
	5 x 0,8	8	70	6,0	1	1027905X08	38,771
	6 x 1	10	80	6,0	1	1027906X1	41,574
	8 x 1,25	14	90	8,0	1	1027908X125	50,047
	10 x 1,5	16	100	10,0	1	1027910X15	56,683



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

10288

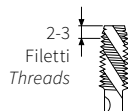
HSS-CO DIN 376/C-35° - ISO 2/6H

M Sinistra
Left hand

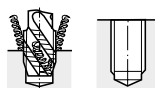


HSS-CO AISI M35
HV 820-850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	12 x 1,75	18	110	9,0	1	1028812X175	61,534
	14 x 2	20	110	11,0	1	1028814X2	80,428
	16 x 2	22	110	12,0	1	1028816X2	90,215
	18 x 2,5	25	125	14,0	1	1028818X25	121,438
	20 x 2,5	25	140	16,0	1	1028820X25	173,481
	22 x 2,5	27	140	18,0	1	1028822X25	192,409
	24 x 3	30	160	18,0	1	1028824X3	198,710
	27 x 3	30	160	20,0	1	1028827X3	340,649
	30 x 3,5	35	180	22,0	1	1028830X35	353,276



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO A RULLARE, FILETTATURA METRICA ISO A PASSO GROSSO

Cold forming machine taps, ISO thread

10360

HSS-CO

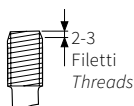
TiN

~ **DIN 2174**

Senza canalini - M

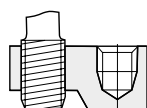


HSS-CO+TiN
HV 0,05=2500
ISO 2X/6HX



DIN 371	Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	2,80	1	1036003X05	48,085
	4 x 0,7	13	63	4,5	3,70	1	1036004X07	52,806
	5 x 0,8	16	70	6,0	4,65	1	1036005X08	61,957
	6 x 1	19	80	6,0	5,55	1	1036006X1	61,957
	8 x 1,25	22	90	8,0	7,45	1	1036008X125	73,952
	10 x 1,5	24	100	10	9,30	1	1036010X15	86,874

DIN 376	Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9,0	11,20	1	1036012X175	127,201
	14 x 2	30	110	11	13,00	1	1036014X2	172,182
	16 x 2	32	110	12	15,01	1	1036016X2	190,801



R ≥ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A RULLARE

Questo tipo di maschi differisce da quelli a tagliare poiché il filetto è prodotto per deformazione plastica del materiale, piuttosto che per la tradizionale azione di taglio. Questo significa che non viene prodotto truciolo durante la lavorazione. I maschi a rullare possono essere impiegati su materiali con buone caratteristiche di deformabilità.

I maschi a rullare senza scanalature sono raccomandati per lavorazioni comuni ed in particolare per la filettatura di lamiera. Sono disponibili anche nella versione con passaggio interno di lubrificante.

COLD FORMING TAPS

This type of tap differs from cutting taps in that the thread is produced by plastic deformation of the material, rather than by the traditional cutting action. This means that no chips are produced during machining. Forming taps can be used on materials with good deformability characteristics.

Cold forming taps are recommended for common machining and especially for sheets. They are also available in the version with internal lubricant passage.

10280

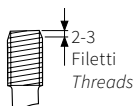
HSS-CO

~ **DIN 2174**

Senza canalini - M

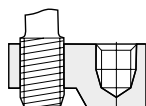


HSS-CO AISI M35
HV 820=850
ISO 2X/6HX



DIN 371	Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	2,80	1	1028003X05	27,723
	4 x 0,7	13	63	4,5	3,70	1	1028004X07	31,239
	5 x 0,8	16	70	6,0	4,65	1	1028005X08	33,780
	6 x 1	19	80	6,0	5,55	1	1028006X1	33,780
	8 x 1,25	22	90	8,0	7,45	1	1028008X125	40,813
	10 x 1,5	24	100	10	9,30	1	1028010X15	48,890

DIN 376	Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9,0	11,20	1	1028012X175	60,607
	14 x 2	30	110	11	13,00	1	1028014X2	85,244
	16 x 2	32	110	12	15,01	1	1028016X2	107,352



R ≥ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO A RULLARE, CON CANALINI DI LUBRIFICAZIONE, FILETTATURA METRICA ISO A PASSO GROSSO

Cold forming machine taps, ISO thread

10361

HSS-CO

TiN

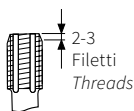
~ **DIN 2174**

Con canalini - M



HSS-CO+TiN
HV 0,05=2500
ISO 2X/6HX

Gambo rinforzato
Reinforced shank



DIN 371	Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	2,80	1	1036103X05	50,640
	4 x 0,7	13	63	4,5	3,70	1	1036104X07	55,270
	5 x 0,8	16	70	6,0	4,65	1	1036105X08	59,506
	6 x 1	19	80	6,0	5,55	1	1036106X1	61,630
	8 x 1,25	22	90	8,0	7,45	1	1036108X125	74,723
	10 x 1,5	24	100	10	9,30	1	1036110X15	89,912

DIN 376	Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9,0	11,20	1	1036112X175	120,317
	14 x 2	30	110	11	13,00	1	1036114X2	164,360
	16 x 2	32	110	12	15,01	1	1036116X2	193,969

R ≥ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel

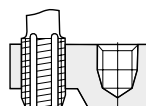


Metalli
Metals



Olio
Oil

Raccomandata
Lubrorefrigerazione
con olio o grafite
Recommended oil
or graphite cooling



Con canalini di
lubrificazione
With oil grooves

10281

HSS-CO

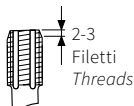
~ **DIN 2174**

Con canalini - M



HSS-CO AISI M35
HV 820+850
ISO 2X/6HX

Gambo rinforzato
Reinforced shank



DIN 371	Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	2,80	1	1028103X05	33,542
	4 x 0,7	13	63	4,5	3,70	1	1028104X07	37,751
	5 x 0,8	16	70	6,0	4,65	1	1028105X08	41,946
	6 x 1	19	80	6,0	5,55	1	1028106X1	41,946
	8 x 1,25	22	90	8,0	7,45	1	1028108X125	49,853
	10 x 1,5	24	100	10	9,30	1	1028110X15	57,669

DIN 376	Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	12 x 1,75	29	110	9,0	11,20	1	1028112X175	72,381
	14 x 2	30	110	11	13,00	1	1028114X2	107,479
	16 x 2	32	110	12	15,01	1	1028116X2	129,563

R ≥ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel

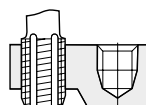


Metalli
Metals



Olio
Oil

Raccomandata
Lubrorefrigerazione
con olio o grafite
Recommended oil
or graphite cooling



Con canalini di
lubrificazione
With oil grooves

MASCHI A MACCHINA AL COBALTO "SOVRADIMENSIONATI", FIL. DIN 13 A PASSO GROSSO

Machine taps oversize

10310

HSS-CO

ISO 3 DIN 371/B | DIN 376/B

6g



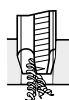
6G
Filetto
con tolleranza lasca
Thread with large
clearance

Gambo rinforzato
Reinforced shank



DIN 371/B		l	L	pcs	cod.	€ cad/each
M	Ø					
3	x 0,5	11	56	1	1031003X05	18,094
4	x 0,7	13	63	1	1031004X07	18,094
5	x 0,8	16	70	1	1031005X08	18,852
6	x 1	19	80	1	1031006X1	18,852
8	x 1,25	22	90	1	1031008X125	23,121
10	x 1,5	24	100	1	1031010X15	26,391

DIN 376/B		l	L	pcs	cod.	€ cad/each
M	Ø					
12	x 1,75	29	110	1	1031012X175	31,667



Per filettature in acciai con $R \leq 850 \text{ N/mm}^2$, ghisa, metalli non erosi a truciolo lungo.
For threading in steel with $R \leq 850 \text{ N/mm}^2$, cast iron, non ferrous metals with long chip.

$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10313

HSS-CO

ISO 3 DIN 371/C-35°

6g



6G
Filetto
con tolleranza lasca
Thread with large
clearance

Gambo rinforzato
Reinforced shank



		l	L	pcs	cod.	€ cad/each
M	Ø					
3	x 0,5	6	56	1	1031303X05	21,614
4	x 0,7	7	63	1	1031304X07	21,614
5	x 0,8	8	70	1	1031305X08	22,622
6	x 1	10	80	1	1031306X1	22,622
8	x 1,25	14	90	1	1031308X125	27,649
10	x 1,5	16	100	1	1031310X15	31,918



Per filettature in acciai con $R \leq 850 \text{ N/mm}^2$, ghisa, metalli non erosi a truciolo lungo.
For threading in steel with $R \leq 850 \text{ N/mm}^2$, cast iron, non ferrous metals with long chip.

$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO "SOVRADIMENSIONATI", FIL. DIN 13 A PASSO GROSSO

Machine taps oversize

10311**HSS-CO****ISO 3 DIN 371/B | DIN 376/B****7g**

7G
Tolleranza necessaria
per tenere conto delle
distorsioni da trattamento
termico
*Allowance for distortion
caused by heat treatment*



DIN 371/B		l	L	pcs	cod.	€ cad/each
M	Ø					
	3 x 0,5	11	56	1	1031103X05	18,353
	4 x 0,7	13	63	1	1031104X07	18,353
	5 x 0,8	16	70	1	1031105X08	19,349
	6 x 1	19	80	1	1031106X1	19,349
	8 x 1,25	22	90	1	1031108X125	24,376
	10 x 1,5	24	100	1	1031110X15	29,154

DIN 376/B		l	L	pcs	cod.	€ cad/each
M	Ø					
	12 x 1,75	29	110	1	1031112X175	33,684



Per filettature in acciai con $R \leq 850$ N/mm², ghisa, metalli non erosi a truciolo lungo.
For threading in steel with $R \leq 850$ N/mm², cast iron, non ferrous metals with long chip.

R ≤ 850 N/mm²

Applicazioni Applications

Inox
StainlessAcciaio
SteelMetalli
MetalsOlio
Oil**10314****HSS-CO****ISO 3 DIN 371/C-35° | DIN 376/C-35°****7g**

7G
Tolleranza necessaria
per tenere conto delle
distorsioni da trattamento
termico
*Allowance for distortion
caused by heat treatment*



DIN 371/C-35°		l	L	pcs	cod.	€ cad/each
M	Ø					
	3 x 0,5	6	56	1	1031403X05	22,123
	4 x 0,7	7	63	1	1031404X07	22,123
	5 x 0,8	8	70	1	1031405X08	23,878
	6 x 1	10	80	1	1031406X1	23,878
	8 x 1,25	14	90	1	1031408X125	30,412
	10 x 1,5	16	100	1	1031410X15	35,947

DIN 376/C-35°		l	L	pcs	cod.	€ cad/each
M	Ø					
	12 x 1,75	18	110	1	1031412X175	38,709



Per filettature in acciai con $R \leq 850$ N/mm², ghisa, metalli non erosi a truciolo lungo.
For threading in steel with $R \leq 850$ N/mm², cast iron, non ferrous metals with long chip.

R ≤ 850 N/mm²

Applicazioni Applications

Inox
StainlessAcciaio
SteelOlio
OilMetalli
MetalsAlluminio
Aluminum

MASCHI A MACCHINA AL COBALTO "SOVRADIMENSIONATI", FIL. DIN 13 A PASSO GROSSO

Machine taps oversize

10312

HSS-CO

ISO 3 DIN 371/B | DIN 376/B

+ 0,1 mm

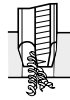


+0,1 mm
Tolleranza che tiene conto
di un eventuale spessore
di rivestimento elettro-
deposto
(0,25 µm)
Electroplating
allowance thickness



DIN 371/B						€
Ø	l	L	pcs	cod.	cad/each	
M 3 x 0,5	11	56	1	1031203X05		18,353
4 x 0,7	13	63	1	1031204X07		18,353
5 x 0,8	16	70	1	1031205X08		19,349
6 x 1	19	80	1	1031206X1		19,349
8 x 1,25	22	90	1	1031208X125		24,376
10 x 1,5	24	100	1	1031210X15		29,154

DIN 376/B						€
Ø	l	L	pcs	cod.	cad/each	
M 12 x 1,75	29	110	1	1031212X175		33,684



Per filettature in acciai con $R \leq 850 \text{ N/mm}^2$, ghisa, metalli non erosi a truciolo lungo.
For threading in steel with $R \leq 850 \text{ N/mm}^2$, cast iron, non ferrous metals with long chip.

$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10315

HSS-CO

ISO 3 DIN 371/C-35° | DIN 376/C-35°

+ 0,1 mm



+0,1 mm
Tolleranza che tiene conto
di un eventuale spessore
di rivestimento elettro-
deposto
(0,25 µm)
Electroplating
allowance thickness



DIN 371/C-35°						€
Ø	l	L	pcs	cod.	cad/each	
M 3 x 0,5	6	56	1	1031503X05		22,123
4 x 0,7	7	63	1	1031504X07		22,123
5 x 0,8	8	70	1	1031505X08		23,878
6 x 1	10	80	1	1031506X1		23,878
8 x 1,25	14	90	1	1031508X125		30,412
10 x 1,5	16	100	1	1031510X15		35,947

DIN 376/C-35°						€
Ø	l	L	pcs	cod.	cad/each	
M 12 x 1,75	18	110	1	1031512X175		38,960



Per filettature in acciai con $R \leq 850 \text{ N/mm}^2$, ghisa, metalli non erosi a truciolo lungo.
For threading in steel with $R \leq 850 \text{ N/mm}^2$, cast iron, non ferrous metals with long chip.

$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO PER DADI, FILETTATURA METRICA ISO A PASSO GROSSO

Machine nut taps, metric coarse thread

10273

HSS-CO **DIN 357 ISO 2/6H**

M



HSS-CO AISI M35
HV 820÷850
Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



R 850 N/mm²

Applicazioni
Applications



Inox
Stainless



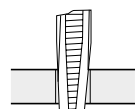
Acciaio
Steel



Metalli
Metals



Olio
Oil



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	22	70	2,2	1	1027303X05	22,060
	4 x 0,7	25	90	2,8	1	1027304X07	22,060
	5 x 0,8	28	100	3,5	1	1027305X08	23,560
	6 x 1	32	110	4,5	1	1027306X1	24,642
	8 x 1,25	40	125	6	1	1027308X125	32,113
	10 x 1,5	45	140	7	1	1027310X15	36,885
	12 x 1,75	50	180	9	1	1027312X175	47,447
	14 x 2	56	200	11	1	1027314X2	62,310
	16 x 2	63	200	12	1	1027316X2	90,873
	18 x 2,5	63	220	14	1	1027318X25	110,222
	20 x 2,5	70	250	16	1	1027320X25	115,139
	22 x 2,5	80	280	18	1	1027322X25	118,452
	24 x 3	80	280	18	1	1027324X3	139,614

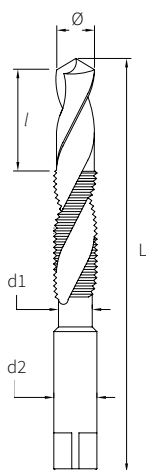
PUNTA-MASCHIO A MACCHINA AL COBALTO PER FORATURE E FILETTATURE IN UNA SOLA OPERAZIONE

Combined machine drill-tap for drilling and threading in one operation

10290

HSS-CO **DIN 357 ISO 2/6H**

M



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



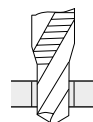
Acciaio
Steel



Metalli
Metals



Olio
Oil



	Ø	l	L	d1	d2	pcs	cod.	€ cad/each
M	3 x 0,5	15	56	2,5	3	1	1029003X05	60,929
	4 x 0,7	15	63	3,3	4	1	1029004X07	60,929
	5 x 0,8	19	71	4,2	5	1	1029005X08	60,929
	6 x 1	22	80	5	6	1	1029006X1	67,564
	8 x 1,25	25	95	6,8	8	1	1029008X125	74,124
	10 x 1,5	30	106	8,5	10	1	1029010X15	83,197
	12 x 1,75	30	115	10,2	12	1	1029012X175	99,417

MASCHI A MACCHINA AL COBALTO, SCAN. DIRITTE, IMB. CORRETTO, FILETTATURA METRICA ISO A PASSO FINE

Machine taps, metric ISO fine thread

10259

HSS-CO

DIN 374/B ISO 2/6H

MF



Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



Ø	l	L	d	pcs.	cod.	€ cad/each	Ø	l	L	d	pcs.	cod.	€ cad/each		
M 3	x 0,35	9	56	2,2	1	1025903X035	36,637	M 25	x 2	28	140	18	1	1025925X2	174,727
4	x 0,35	10	63	2,8	1	1025904X035	36,637	26	x 1	28	140	18	1	1025926X1	173,248
4	x 0,5	10	63	2,8	1	1025904X05	31,957	26	x 1,5	28	140	18	1	1025926X15	173,248
5	x 0,5	12	70	3,5	1	1025905X05	31,957	26	x 2	28	140	18	1	1025926X2	173,248
5	x 0,75	12	70	3,5	1	1025905X075	36,637	27	x 1	28	140	20	1	1025927X1	177,686
6	x 0,5	14	80	4,5	1	1025906X05	32,856	27	x 1,5	28	140	20	1	1025927X15	177,686
6	x 0,75	14	80	4,5	1	1025906X075	32,856	27	x 2	28	140	20	1	1025927X2	177,686
7	x 0,75	14	80	5,5	1	1025907X075	45,203	28	x 1	28	140	20	1	1025928X1	195,454
8	x 0,5	19	80	6	1	1025908X05	52,153	28	x 1,5	28	140	20	1	1025928X15	195,454
8	x 0,75	19	80	6	1	1025908X075	42,376	28	x 2	28	140	20	1	1025928X2	195,454
8	x 1	22	90	6	1	1025908X1	37,094	29	x 1,5	28	150	22	1	1025929X15	239,734
9	x 0,75	19	80	7	1	1025909X075	49,479	30	x 1	28	150	22	1	1025930X1	205,886
9	x 1	22	90	7	1	1025909X1	45,203	30	x 1,5	28	150	22	1	1025930X15	205,886
10	x 0,75	20	90	7	1	1025910X075	43,208	30	x 2	28	150	22	1	1025930X2	205,886
10	x 1	20	90	7	1	1025910X1	43,208	30	x 2,5	45	180	22	1	1025930X25	229,864
10	x 1,25	24	100	7	1	1025910X125	43,208	30	x 3	45	180	22	1	1025930X3	229,864
11	x 1	20	90	8	1	1025911X1	61,215	32	x 1,5	28	150	22	1	1025932X15	258,066
11	x 1,25	22	90	8	1	1025911X125	61,215	32	x 2	28	150	22	1	1025932X2	258,066
12	x 0,75	22	100	9	1	1025912X075	61,215	32	x 3	50	180	22	1	1025932X3	258,066
12	x 1	22	100	9	1	1025912X1	50,419	33	x 1,5	30	160	25	1	1025933X15	287,689
12	x 1,25	22	100	9	1	1025912X125	50,419	33	x 2	30	160	25	1	1025933X2	287,689
12	x 1,5	22	100	9	1	1025912X15	50,419	33	x 3	50	180	25	1	1025933X3	287,689
13	x 1	22	100	11	1	1025913X1	71,683	34	x 1,5	30	170	28	1	1025934X15	293,321
13	x 1,5	22	100	11	1	1025913X15	71,683	34	x 2	30	170	28	1	1025934X2	293,321
14	x 0,75	22	100	11	1	1025914X075	71,683	35	x 1,5	30	170	28	1	1025935X15	306,020
14	x 1	22	100	11	1	1025914X1	71,683	36	x 1,5	30	170	28	1	1025936X15	306,020
14	x 1,25	22	100	11	1	1025914X125	71,683	36	x 2	30	170	28	1	1025936X2	306,020
14	x 1,5	22	100	11	1	1025914X15	71,683	36	x 3	56	200	28	1	1025936X3	306,020
15	x 1	22	100	12	1	1025915X1	71,683	38	x 1,5	30	170	28	1	1025938X15	327,169
15	x 1,5	22	100	12	1	1025915X15	71,683	39	x 1,5	30	170	32	1	1025939X15	327,169
16	x 1	22	100	12	1	1025916X1	71,683	39	x 2	30	170	32	1	1025939X2	327,169
16	x 1,25	22	100	12	1	1025916X125	71,683	39	x 3	60	200	32	1	1025939X3	327,169
16	x 1,5	22	100	12	1	1025916X15	71,683	40	x 1,5	30	170	32	1	1025940X15	353,961
18	x 1	25	110	14	1	1025918X1	86,261	40	x 2	30	170	32	1	1025940X2	353,961
18	x 1,25	25	110	14	1	1025918X125	86,261	40	x 3	60	200	32	1	1025940X3	353,961
18	x 1,5	25	110	14	1	1025918X15	86,261	42	x 1,5	30	170	32	1	1025942X15	396,357
18	x 2	34	125	14	1	1025918X2	86,261	42	x 2	30	170	32	1	1025942X2	396,357
20	x 1	25	125	16	1	1025920X1	110,414	42	x 3	60	200	32	1	1025942X3	396,357
20	x 1,25	25	125	16	1	1025920X125	110,414	45	x 1,5	32	180	36	1	1025945X15	507,636
20	x 1,5	25	125	16	1	1025920X15	110,414	45	x 2	32	180	36	1	1025945X2	507,636
20	x 2	34	140	16	1	1025920X2	110,414	45	x 3	50	200	36	1	1025945X3	507,636
21	x 1,5	25	125	16	1	1025921X15	124,607	48	x 1,5	32	190	36	1	1025948X15	605,209
22	x 1	25	125	18	1	1025922X1	124,607	48	x 2	32	190	36	1	1025948X2	605,209
22	x 1,25	25	125	18	1	1025922X125	124,607	48	x 3	50	225	36	1	1025948X3	605,209
22	x 1,5	25	125	18	1	1025922X15	124,607	50	x 1,5	32	190	36	1	1025950X15	713,440
22	x 2	34	140	18	1	1025922X2	124,607	50	x 2	32	190	36	1	1025950X2	713,440
23	x 1,5	25	125	18	1	1025923X15	166,406	50	x 3	50	225	36	1	1025950X3	713,440
24	x 1	28	140	18	1	1025924X1	143,837	52	x 1,5	32	190	40	1	1025952X15	777,470
24	x 1,25	28	140	18	1	1025924X125	143,837	52	x 2	32	190	40	1	1025952X2	777,470
24	x 1,5	28	140	18	1	1025924X15	143,837	52	x 3	50	225	40	1	1025952X3	777,470
24	x 2	28	140	18	1	1025924X2	143,837	63	x 1,5	50	275	50	1	1025963X15	1.341,315
25	x 1	28	140	18	1	1025925X1	174,727								
25	x 1,5	28	140	18	1	1025925X15	174,727								

R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



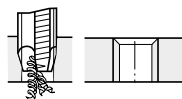
Acciaio
Steel



Metalli
Metals



Olio
Oil



Per fori passanti in acciai con R≤850 N/mm², ghisa, metalli non ferrosi a truciolo lungo.
For through holes in steel with R≤850 N/mm², cast iron, non ferrous metals with long chip.

MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE, IMBOCCO "C",
FIL. METRICA ISO A PASSO FINE
Machine taps, "C" chamfer form, metric fine thread

10252

HSS-CO

DIN 374/C ISO 2/6H

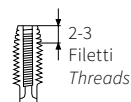
MF



HSS-CO AISI M35
HV 820±850



FORM C



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel

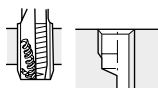


Metalli
Metals



Olio
Oil

	Ø	l	L	d	pcs	cod.	€ cad/each
M	4 x 0,35	10	63	2,8	1	1025204X035	26,599
	5 x 0,5	12	70	3,5	1	1025205X05	26,599
	6 x 0,75	14	80	4,5	1	1025206X075	26,599
	8 x 0,75	19	80	6,0	1	1025208X075	30,782
	8 x 1	22	90	6,0	1	1025208X1	30,782
	10 x 1	20	90	7,0	1	1025210X1	35,386
	10 x 1,25	24	100	7,0	1	1025210X125	35,386
	12 x 1	22	100	9,0	1	1025212X1	36,911
	12 x 1,25	22	100	9,0	1	1025212X125	36,911
	12 x 1,5	22	100	9,0	1	1025212X15	36,911
	14 x 1	22	100	11,0	1	1025214X1	42,309
	14 x 1,25	22	100	11,0	1	1025214X125	42,309
	14 x 1,5	22	100	11,0	1	1025214X15	42,309
	16 x 1	22	100	12,0	1	1025216X1	49,063
	16 x 1,5	22	100	12,0	1	1025216X15	49,063
	18 x 1	25	110	14,0	1	1025218X1	60,497
	18 x 1,5	25	110	14,0	1	1025218X15	60,497
	18 x 2	34	125	14,0	1	1025218X2	60,497
	20 x 1	25	125	16,0	1	1025220X1	94,279
	20 x 1,25	25	125	16,0	1	1025220X125	67,342
	20 x 1,5	25	125	16,0	1	1025220X15	67,342
	20 x 2	34	140	16,0	1	1025220X2	67,342
	22 x 1	25	125	18,0	1	1025222X1	93,967
	22 x 1,5	25	125	18,0	1	1025222X15	93,967
	22 x 2	34	140	18,0	1	1025222X2	93,967
	24 x 1	28	140	18,0	1	1025224X1	106,956
	24 x 1,5	28	140	18,0	1	1025224X15	106,956
	24 x 2	28	140	18,0	1	1025224X2	124,781
	25 x 1	28	140	18,0	1	1025225X1	143,848
	26 x 1,5	28	140	18,0	1	1025226X15	129,610
	27 x 1,5	28	140	20,0	1	1025227X15	144,756
	27 x 2	28	140	20,0	1	1025227X2	144,756
	28 x 1,5	28	140	20,0	1	1025228X15	144,756
	30 x 1,5	28	150	22,0	1	1025230X15	161,496
	30 x 2	28	150	22,0	1	1025230X2	161,496
	32 x 1,5	28	150	22,0	1	1025232X15	182,758
	32 x 2	28	150	22,0	1	1025232X2	182,758
	33 x 2	30	160	25,0	1	1025233X2	204,757
	35 x 1,5	30	170	28,0	1	1025235X15	219,997
	36 x 1,5	30	170	28,0	1	1025236X15	236,911
	36 x 2	30	170	28,0	1	1025236X2	236,911
	38 x 1,5	30	170	28,0	1	1025238X15	253,839
	40 x 1,5	30	170	32,0	1	1025240X15	296,145
	42 x 1,5	30	170	32,0	1	1025242X15	296,145
	45 x 1,5	32	180	36,0	1	1025245X15	350,295
	48 x 1,5	32	190	36,0	1	1025248X15	399,376
	50 x 1,5	32	190	36,0	1	1025250X15	527,985
	52 x 1,5	32	190	40,0	1	1025252X15	527,985



Per fori ciechi e passanti in acciai e ghisa con R≤850 N/mm²

For blind and through holes in steel with R≤850 N/mm²

MASCHI A MACCHINA AL COBALTO, SCAN. ELICOIDALI 35°, FIL. METRICA ISO A PASSO FINE

Machine taps, 35° spiral flute, metric fine thread

10260

HSS-CO

DIN 374/C-35° ISO 2/6H

MF



Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



	Ø	l	L	d	pcs.	cod.	€ cad/each
M	3 x 0,35	9	56	2,2	1	1026003X035	39,115
	4 x 0,35	10	63	2,8	1	1026004X035	41,722
	4 x 0,5	10	63	2,8	1	1026004X05	37,811
	5 x 0,5	12	70	3,5	1	1026005X05	41,722
	5 x 0,75	12	70	3,5	1	1026005X075	41,722
	6 x 0,5	14	80	4,5	1	1026006X05	41,722
	6 x 0,75	14	80	4,5	1	1026006X075	41,722
	7 x 0,75	14	80	5,5	1	1026007X075	41,722
	8 x 0,5	19	80	6	1	1026008X05	50,849
	8 x 0,75	19	80	6	1	1026008X075	37,811
	8 x 1	22	90	6	1	1026008X1	44,331
	9 x 0,75	19	80	7	1	1026009X075	64,631
	9 x 1	22	90	7	1	1026009X1	49,545
	10 x 0,75	20	90	7	1	1026010X075	58,672
	10 x 1	20	90	7	1	1026010X1	49,545
	10 x 1,25	24	100	7	1	1026010X125	51,502
	11 x 1	20	90	8	1	1026011X1	57,239
	11 x 1,25	22	90	8	1	1026011X125	57,239
	12 x 0,75	22	100	9	1	1026012X075	57,239
	12 x 1	22	100	9	1	1026012X1	57,239
	12 x 1,25	22	100	9	1	1026012X125	57,239
	12 x 1,5	22	100	9	1	1026012X15	57,239
	13 x 1	22	100	11	1	1026013X1	69,950
	13 x 1,5	22	100	11	1	1026013X15	69,950
	14 x 0,75	22	100	11	1	1026014X075	69,950
	14 x 1	22	100	11	1	1026014X1	69,950
	14 x 1,25	22	100	11	1	1026014X125	69,950
	14 x 1,5	22	100	11	1	1026014X15	69,950
	15 x 1	22	100	12	1	1026015X1	81,281
	15 x 1,5	22	100	12	1	1026015X15	81,281
	16 x 1	22	100	12	1	1026016X1	81,281
	16 x 1,25	22	100	12	1	1026016X125	81,281
	16 x 1,5	22	100	12	1	1026016X15	81,281
	18 x 1	25	110	14	1	1026018X1	99,768
	18 x 1,25	25	110	14	1	1026018X125	99,768
	18 x 1,5	25	110	14	1	1026018X15	99,768
	18 x 2	34	125	14	1	1026018X2	99,768
	20 x 1	25	125	16	1	1026020X1	122,052
	20 x 1,25	25	125	16	1	1026020X125	122,052
	20 x 1,5	25	125	16	1	1026020X15	122,052
	20 x 2	34	140	16	1	1026020X2	122,052
	21 x 1,5	25	125	16	1	1026021X15	122,052
	22 x 1	25	125	18	1	1026022X1	140,813
	22 x 1,25	25	125	18	1	1026022X125	140,813
	22 x 1,5	25	125	18	1	1026022X15	134,215
	22 x 2	34	140	18	1	1026022X2	134,215
	23 x 1,5	25	125	18	1	1026023X15	162,599
	24 x 1	28	140	18	1	1026024X1	162,599
	24 x 1,25	28	140	18	1	1026024X125	162,599
	24 x 1,5	28	140	18	1	1026024X15	162,599
	24 x 2	28	140	18	1	1026024X2	162,599
	25 x 1	28	140	18	1	1026025X1	178,859

	Ø	l	L	d	pcs.	cod.	€ cad/each
M	25 x 1,5	28	140	18	1	1026025X15	178,859
	25 x 2	28	140	18	1	1026025X2	178,859
	26 x 1	28	140	18	1	1026026X1	180,710
	26 x 1,5	28	140	18	1	1026026X15	180,710
	26 x 2	28	140	18	1	1026026X2	188,923
	27 x 1	28	140	20	1	1026027X1	196,017
	27 x 1,5	28	140	20	1	1026027X15	196,017
	27 x 2	28	140	20	1	1026027X2	196,017
	28 x 1	28	140	20	1	1026028X1	196,017
	28 x 1,5	28	140	20	1	1026028X15	196,017
	28 x 2	28	140	20	1	1026028X2	196,017
	29 x 1,5	28	150	22	1	1026029X15	222,809
	30 x 1	28	150	22	1	1026030X1	222,809
	30 x 1,5	28	150	22	1	1026030X15	222,809
	30 x 2	28	150	22	1	1026030X2	222,809
	30 x 2,5	45	180	22	1	1026030X25	222,809
	30 x 3	45	180	22	1	1026030X3	222,809
	32 x 1,5	28	150	22	1	1026032X15	277,819
	32 x 2	28	150	22	1	1026032X2	277,819
	32 x 3	50	180	22	1	1026032X3	277,819
	33 x 1,5	30	160	25	1	1026033X15	291,710
	33 x 2	30	160	25	1	1026033X2	291,710
	33 x 3	50	180	25	1	1026033X3	291,710
	34 x 1,5	30	170	28	1	1026034X15	291,710
	34 x 2	30	170	28	1	1026034X2	291,710
	35 x 1,5	30	170	28	1	1026035X15	291,710
	36 x 1,5	30	170	28	1	1026036X15	383,162
	36 x 2	30	170	28	1	1026036X2	383,162
	36 x 3	56	200	28	1	1026036X3	383,162
	38 x 1,5	30	170	28	1	1026038X15	384,994
	39 x 1,5	30	170	32	1	1026039X15	384,994
	39 x 2	30	170	32	1	1026039X2	384,994
	39 x 3	60	200	32	1	1026039X3	384,994
	40 x 1,5	30	170	32	1	1026040X15	393,898
	40 x 2	30	170	32	1	1026040X2	393,898
	40 x 3	60	200	32	1	1026040X3	393,898
	42 x 1,5	30	170	32	1	1026042X15	424,190
	42 x 2	30	170	32	1	1026042X2	424,190
	42 x 3	60	200	32	1	1026042X3	424,190
	45 x 1,5	32	180	36	1	1026045X15	497,101
	45 x 2	32	180	36	1	1026045X2	497,101
	45 x 3	50	200	36	1	1026045X3	497,101
	48 x 1,5	32	190	36	1	1026048X15	589,889
	48 x 2	32	190	36	1	1026048X2	589,889
	48 x 3	50	225	36	1	1026048X3	589,889
	50 x 1,5	32	190	36	1	1026050X15	689,310
	50 x 2	32	190	36	1	1026050X2	689,310
	50 x 3	50	225	36	1	1026050X3	689,310
	52 x 1,5	32	190	40	1	1026052X15	756,914
	52 x 2	32	190	40	1	1026052X2	756,914
	52 x 3	50	225	40	1	1026052X3	756,914
	63 x 1,5	40	275	50	1	1026063X15	1.280,531

R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



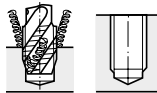
Metalli
Metals



Alluminio
Aluminum



Olio
Oil



Per fori ciechi in acciai con R≤850 N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For blind holes in steel with R≤850 N/mm², malleable cast iron, non ferrous metals with long chips, stainless steel, heat resistant steel.

MASCHI A MACCHINA AL COBALTO "SINISTRI",
FILETTATURA METRICA ISO A PASSO FINE
Machine taps, "left hand", metric thread

10286

HSS-CO

DIN 374/B ISO 2/6H

MF

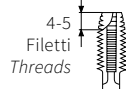
Sinistra
Left hand



HSS-CO AISI M35
HV 820=850



FORM B



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel

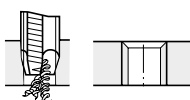


Metalli
Metals



Olio
Oil

	Ø	l	L	d	pcs	cod.	€ cad/each
M	4 x 0,35	10	63	2,8	1	1028604X035	82,106
	5 x 0,5	12	70	3,5	1	1028605X05	82,106
	6 x 0,75	14	80	4,5	1	1028606X075	82,106
	8 x 0,75	19	80	6,0	1	1028608X075	82,106
	8 x 1	22	90	6,0	1	1028608X1	82,106
	10 x 1	20	90	7,0	1	1028610X1	91,422
	10 x 1,25	24	100	7,0	1	1028610X125	91,422
	12 x 1	22	100	9,0	1	1028612X1	127,646
	12 x 1,25	22	100	9,0	1	1028612X125	127,646
	12 x 1,5	22	100	9,0	1	1028612X15	127,646
	14 x 1	22	100	11,0	1	1028614X1	155,247
	14 x 1,25	22	100	11,0	1	1028614X125	155,247
	14 x 1,5	22	100	11,0	1	1028614X15	155,247
	16 x 1	22	100	12,0	1	1028616X1	180,088
	16 x 1,5	22	100	12,0	1	1028616X15	180,088
	18 x 1	25	110	14,0	1	1028618X1	215,620
	18 x 1,5	25	110	14,0	1	1028618X15	215,620
	18 x 2	34	125	14,0	1	1028618X2	215,620
	20 x 1	25	125	16,0	1	1028620X1	236,320
	20 x 1,25	25	125	16,0	1	1028620X125	236,320
	20 x 1,5	25	125	16,0	1	1028620X15	236,320
	20 x 2	34	140	16,0	1	1028620X2	236,320
	22 x 1	25	125	18,0	1	1028622X1	296,694
	22 x 1,5	25	125	18,0	1	1028622X15	296,694
	22 x 2	34	140	18,0	1	1028622X2	296,694
	24 x 1	28	140	18,0	1	1028624X1	346,715
	24 x 1,5	28	140	18,0	1	1028624X15	346,715
	24 x 2	28	140	18,0	1	1028624X2	346,715
	25 x 1	28	140	18,0	1	1028625X1	346,715
	26 x 1,5	28	140	18,0	1	1028626X15	346,715
	27 x 1,5	28	140	20,0	1	1028627X15	434,689
	27 x 2	28	140	20,0	1	1028627X2	434,689
	28 x 1,5	28	140	20,0	1	1028628X15	434,689
	30 x 1,5	28	150	22,0	1	1028630X15	496,787
	30 x 2	28	150	22,0	1	1028630X2	496,787
	32 x 1,5	28	150	22,0	1	1028632X15	614,084
	32 x 2	28	150	22,0	1	1028632X2	614,084
	33 x 2	30	160	25,0	1	1028633X2	614,084
	35 x 1,5	30	170	28,0	1	1028635X15	614,084
	36 x 1,5	30	170	28,0	1	1028636X15	769,331
	36 x 2	30	170	28,0	1	1028636X2	769,331
	38 x 1,5	30	170	28,0	1	1028638X15	814,178
	40 x 1,5	30	170	32,0	1	1028640X15	886,628
	42 x 1,5	30	170	32,0	1	1028642X15	990,124
	45 x 1,5	32	180	36,0	1	1028645X15	1.172,969
	48 x 1,5	32	190	36,0	1	1028648X15	1.414,465
	50 x 1,5	32	190	36,0	1	1028650X15	1.638,709
	52 x 1,5	32	190	40,0	1	1028652X15	1.811,205



Per fori in acciai con R≤850 N/mm² ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For holes in steel with R≤850 N/mm² malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.

MASCHI A MACCHINA AL COBALTO "SINISTRI", FILETTATURA METRICA ISO A PASSO FINE

Machine taps, "left hand", metric thread

10287

HSS-CO

DIN 374/C-35° ISO 2/6H

MF

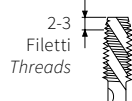
Sinistra
Left hand



HSS-CO AISI M35
HV 820=850



FORM C



$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals

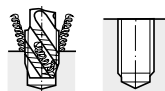


Alluminio
Aluminum



Olio
Oil

	Ø	l	L	d	pcs	cod.	€ cad/each
M	4 x 0,35	10	63	2,8	1	1028704X035	91,422
	5 x 0,5	12	70	3,5	1	1028705X05	91,422
	6 x 0,75	14	80	4,5	1	1028706X075	91,422
	8 x 0,75	19	80	6,0	1	1028708X075	91,422
	8 x 1	22	90	6,0	1	1028708X1	91,422
	10 x 1	20	90	7,0	1	1028710X1	110,397
	10 x 1,25	24	100	7,0	1	1028710X125	110,397
	12 x 1	22	100	9,0	1	1028712X1	141,446
	12 x 1,25	22	100	9,0	1	1028712X125	141,446
	12 x 1,5	22	100	9,0	1	1028712X15	141,446
	14 x 1	22	100	11,0	1	1028714X1	172,496
	14 x 1,25	22	100	11,0	1	1028714X125	172,496
	14 x 1,5	22	100	11,0	1	1028714X15	172,496
	16 x 1	22	100	12,0	1	1028716X1	198,371
	16 x 1,5	22	100	12,0	1	1028716X15	198,371
	18 x 1	25	110	14,0	1	1028718X1	244,944
	18 x 1,5	25	110	14,0	1	1028718X15	244,944
	18 x 2	34	125	14,0	1	1028718X2	244,944
	20 x 1	25	125	16,0	1	1028720X1	274,269
	20 x 1,25	25	125	16,0	1	1028720X125	274,269
	20 x 1,5	25	125	16,0	1	1028720X15	274,269
	20 x 2	34	140	16,0	1	1028720X2	274,269
	22 x 1	25	125	18,0	1	1028722X1	331,191
	22 x 1,5	25	125	18,0	1	1028722X15	331,191
	22 x 2	34	140	18,0	1	1028722X2	331,191
	24 x 1	28	140	18,0	1	1028724X1	396,740
	24 x 1,5	28	140	18,0	1	1028724X15	396,740
	24 x 2	28	140	18,0	1	1028724X2	396,740
	25 x 1	28	140	18,0	1	1028725X1	396,740
	26 x 1,5	28	140	18,0	1	1028726X15	396,740
	27 x 1,5	28	140	20,0	1	1028727X15	479,538
	27 x 2	28	140	20,0	1	1028727X2	479,538
	28 x 1,5	28	140	20,0	1	1028728X15	479,538
	30 x 1,5	28	150	22,0	1	1028730X15	545,085
	30 x 2	28	150	22,0	1	1028730X2	545,085
	32 x 1,5	28	150	22,0	1	1028732X15	679,633
	32 x 2	28	150	22,0	1	1028732X2	679,633
	33 x 2	30	160	25,0	1	1028733X2	679,633
	35 x 1,5	30	170	28,0	1	1028735X15	679,633
	36 x 1,5	30	170	28,0	1	1028736X15	855,579
	36 x 2	30	170	28,0	1	1028736X2	855,579
	38 x 1,5	30	170	28,0	1	1028738X15	896,978
	40 x 1,5	30	170	32,0	1	1028740X15	976,328
	42 x 1,5	30	170	32,0	1	1028742X15	1.103,972
	45 x 1,5	32	180	36,0	1	1028745X15	1.297,167
	48 x 1,5	32	190	36,0	1	1028748X15	1.545,561
	50 x 1,5	32	190	36,0	1	1028750X15	1.800,855
	52 x 1,5	32	190	40,0	1	1028752X15	1.976,801



Per fori in acciai con $R \leq 850 \text{ N/mm}^2$ ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For holes in steel with $R \leq 850 \text{ N/mm}^2$ malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.

MASCHI A MACCHINA AL COBALTO, FILETTATURA GAS CILINDRICA BSP

Machine taps, BSP pipe-thread

10268

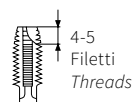
HSS-CO DIN 5156/B

BSP



HSS-CO AISI M35
HV 820+850

FORM B



R ≤ 850 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
G	1/8 x 28	20	90	7	1	102681/8	33,255
	1/4 x 19	22	100	11	1	102681/4	43,405
	3/8 x 19	22	100	12	1	102683/8	53,732
	1/2 x 14	25	125	16	1	102681/2	79,880
	5/8 x 14	25	125	18	1	102685/8	91,894
	3/4 x 14	28	140	20	1	102683/4	127,775
	7/8 x 14	28	150	22	1	102687/8	138,205
	1" x 11	30	160	25	1	102681	185,091
	1.1/8 x 11	30	170	28	1	102681.1/8	296,071
	1.1/4 x 11	30	170	32	1	102681.1/4	381,820
	1.3/8 x 11	32	180	36	1	102681.3/8	542,938
	1.1/2 x 11	32	190	36	1	102681.1/2	613,449
	1.3/4 x 11	32	190	40	1	102681.3/4	765,537
	2" x 11	40	220	45	1	102682	859,389

Applicazioni
Applications



Inox
Stainless



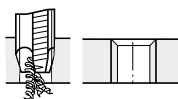
Acciaio
Steel



Metalli
Metals



Olio
Oil



10276

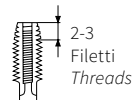
HSS-CO DIN 5156/C

BSP



HSS-CO AISI M35
HV 820+850

FORM C



R ≤ 850 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
G	1/8 x 28	20	90	7	1	102761/8	36,083
	1/4 x 19	22	100	11	1	102761/4	45,319
	3/8 x 19	22	100	12	1	102763/8	56,654
	1/2 x 14	25	125	16	1	102761/2	79,911
	5/8 x 14	25	125	18	1	102765/8	90,943
	3/4 x 14	28	140	20	1	102763/4	117,778
	7/8 x 14	28	150	22	1	102767/8	146,357
	1" x 11	30	160	25	1	102761	190,502
	1.1/8 x 11	30	170	28	1	102761.1/8	265,263
	1.1/4 x 11	30	170	32	1	102761.1/4	353,688
	1.3/8 x 11	32	180	36	1	102761.3/8	511,435
	1.1/2 x 11	32	190	36	1	102761.1/2	544,019
	1.3/4 x 11	32	190	40	1	102761.3/4	694,485
	2" x 11	40	220	45	1	102762	752,498

Applicazioni
Applications



Inox
Stainless



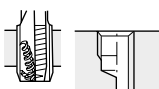
Acciaio
Steel



Metalli
Metals



Olio
Oil



MASCHI A MACCHINA AL COBALTO, FILETTATURA GAS CILINDRICA BSP

Machine taps, BSP pipe-thread

10267

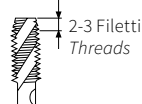
HSS-CO **DIN 5156/C-35°**

BSP



HSS-CO AISI M35
HV 820=850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
G	1/8 x 28	20	90	7	1	102671/8	41,150
	1/4 x 19	22	100	11	1	102671/4	63,288
	3/8 x 19	22	100	12	1	102673/8	81,292
	1/2 x 14	25	125	16	1	102671/2	133,329
	5/8 x 14	25	125	18	1	102675/8	152,952
	3/4 x 14	28	140	20	1	102673/4	200,932
	7/8 x 14	28	150	22	1	102677/8	242,524
	1" x 11	30	160	25	1	102671	271,794
	1.1/8 x 11	30	170	28	1	102671.1/8	413,533
	1.1/4 x 11	30	170	32	1	102671.1/4	500,707
	1.3/8 x 11	32	180	36	1	102671.3/8	727,677
	1.1/2 x 11	32	190	36	1	102671.1/2	769,972
	1.3/4 x 11	32	190	40	1	102671.3/4	1.107,688
	2" x 11	40	220	45	1	102672	1.213,480

R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



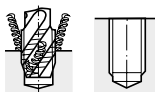
Olio
Oil



Metalli
Metals



Alluminio
Aluminum



10289

HSS-CO **DIN 5156/C**

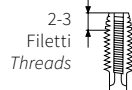
BSP

Sinistra
Left hand

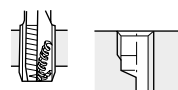


HSS-CO AISI M35
HV 820=850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
G	1/8 x 28	20	90	7,0	1	102891/8	46,647
	1/4 x 19	22	100	11,0	1	102891/4	58,428
	3/8 x 19	22	100	12,0	1	102893/8	73,044
	1/2 x 14	25	125	16,0	1	102891/2	101,996
	5/8 x 14	25	125	18,0	1	102895/8	117,372
	3/4 x 14	28	140	20,0	1	102893/4	151,204
	1" x 11	30	160	25,0	1	102891	220,400



Per fori ciechi e passanti in acciai con $R \leq 850$ N/mm² ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For blind and through holes in steel with $R \leq 850$ N/mm² malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.

R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals

MASCHI A MACCHINA AL COBALTO CONICI PER TUBI, FILETTATURA GAS CONICA BSPT

BSPT machine taps

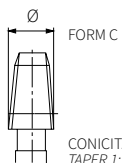
10294

HSS-CO

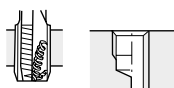
BSPT - Conici



HSS-CO AISI M35
HV 820-850



	Ø	l	L	d	pcs	cod.	€ cad/each
Rc	1/8 x 28	20	90	7	1	102941/8	50,776
	1/4 x 19	22	100	11	1	102941/4	63,621
	3/8 x 19	22	100	12	1	102943/8	79,304
	1/2 x 14	28	125	16	1	102941/2	111,420
	3/4 x 14	28	140	20	1	102943/4	165,408
	1" x 11	38	160	25	1	102941	237,666



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO, FILETTATURA INGLESE WHITWORTH A PASSO GROSSO

Machine taps, british standard thread

10265

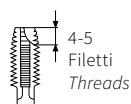
HSS-CO ISO 2/6 H ≈ DIN 371/B

BSW

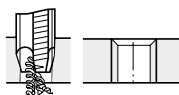


HSS-CO AISI M35
HV 820-850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
BSW	1/8 x 40	5	56	3,5	1	102651/8	22,480
	5/32 x 32	6	63	4,5	1	102655/32	22,480
	3/16 x 24	9	70	5,5	1	102653/16	23,070
	1/4 x 20	10	90	7	1	102651/4	23,070
	5/16 x 18	12	90	8	1	102655/16	28,417
	3/8 x 16	14	100	10	1	102653/8	31,909



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10266

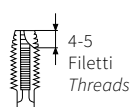
HSS-CO ≈ DIN 376/B

BSW

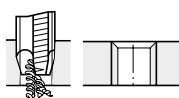


HSS-CO AISI M35
HV 820-850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
BSW	7/16 x 14	20	100	8	1	102667/16	38,195
	1/2 x 12	25	110	9	1	102661/2	38,559
	9/16 x 12	25	110	11	1	102669/16	56,990
	5/8 x 11	28	110	12	1	102665/8	56,990
	3/4 x 10	32	125	14	1	102663/4	118,092
	7/8 x 9	32	140	18	1	102667/8	133,381
	1" x 8	36	160	20	1	102661	151,570
	1.1/4 x 7	40	180	22	1	102661.1/4	225,049
	1.1/2 x 6	50	200	32	1	102661.1/2	481,845



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO, FILETTATURA INGLESE WHITWORTH A PASSO GROSSO

Machine taps, british standard thread

10274

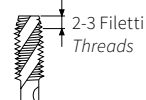
HSS-CO **DIN 371/C-35°**

BSW

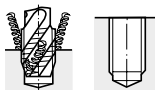


HSS-CO AISI M35
HV 820-850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
BSW	1/8 x 40	5	56	3,5	1	102741/8	31,014
	5/32 x 32	6	63	4,5	1	102745/32	31,014
	3/16 x 24	9	70	5,5	1	102743/16	32,434
	1/4 x 20	10	90	7	1	102741/4	32,434
	5/16 x 18	12	90	8	1	102745/16	39,252
	3/8 x 16	14	100	10	1	102743/8	45,460



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

10275

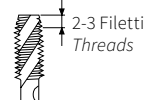
HSS-CO **DIN 376/C-35°**

BSW

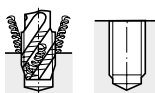


HSS-CO AISI M35
HV 820-850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
BSW	7/16 x 14	20	100	8	1	102757/16	52,429
	1/2 x 12	25	110	9	1	102751/2	52,429
	9/16 x 12	25	110	11	1	102759/16	75,476
	5/8 x 11	28	110	12	1	102755/8	75,476
	3/4 x 10	32	125	14	1	102753/4	150,776
	7/8 x 9	32	140	18	1	102757/8	199,650
	1" x 8	36	160	20	1	102751	205,222
	1.1/4 x 7	40	180	22	1	102751.1/4	301,563
	1.1/2 x 6	50	200	32	1	102751.1/2	663,159



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO CONICI PER TUBI, FILETTATURA AMERICANA NPT

NPT machine taps

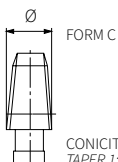
10293

HSS-CO

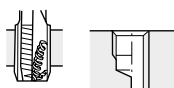
NPT - Conici



HSS-CO AISI M35
HV 820-850



	Ø	l	L	d	pcs	cod.	€ cad/each
NPT	1/8 x 27	20	90	7	1	102931/8	50,776
	1/4 x 18	22	100	11	1	102931/4	63,621
	3/8 x 18	22	100	12	1	102933/8	79,304
	1/2 x 14	28	125	16	1	102931/2	111,420
	3/4 x 14	28	140	20	1	102933/4	165,408
	1" x 11,5	38	160	25	1	102931	237,666



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO CORTI PER TUBI, FILETTATURA CILINDRICA AMERICANA NPS

Short machine taps for pipes

10308

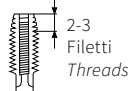
HSS-CO

NPS

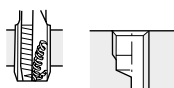


HSS-CO AISI M35
HV 820-850

FORM C



	Ø	l	L	pcs	cod.	€ cad/each
NPS	1/16 x 27	17,5	54	1	103081/16	31,616
	1/8 x 27	19	55	1	103081/8	35,713
	1/4 x 18	28	62	1	103081/4	42,672
	3/8 x 18	28	65	1	103083/8	51,592
	1/2 x 14	35	80	1	103081/2	74,081
	3/4 x 14	35	85	1	103083/4	98,433
	1" x 11,5	45	95	1	103081	140,745



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10309

HSS-CO

FORM C 35°

NPS

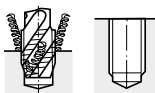


HSS-CO AISI M35
HV 820-850

FORM C 35°



	Ø	l	L	pcs	cod.	€ cad/each
NPS	1/16 x 27	17,5	54	1	103091/16	31,301
	1/8 x 27	19	55	1	103091/8	39,284
	1/4 x 18	28	62	1	103091/4	46,940
	3/8 x 18	28	65	1	103093/8	56,749
	1/2 x 14	35	80	1	103091/2	81,488
	3/4 x 14	35	85	1	103093/4	108,277
	1" x 11,5	45	95	1	103091	154,818



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO CORTI PER TUBI, FILETTATURA CONICA AMERICANA NPTF

Short machine taps for pipes

10306

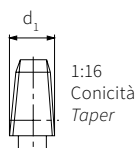
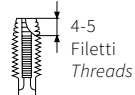
HSS-CO

NPTF - Conici



HSS-CO AISI M35
HV 820-850

FORM B



$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil



	\emptyset	l	L	pcs	cod.	€ cad/each
NPTF	1/16 x 27	19	55	1	103061/16	39,514
	1/8 x 27	19	55	1	103061/8	39,890
	1/4 x 18	28	62	1	103061/4	41,983
	3/8 x 18	28	65	1	103063/8	47,040
	1/2 x 14	35	80	1	103061/2	74,081
	3/4 x 14	35	85	1	103063/4	98,433
	1" x 11,5	45	95	1	103061	140,752



10307

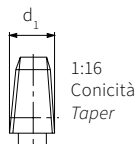
HSS-CO

NPTF - Conici



HSS-CO AISI M35
HV 820-850

FORM C



$R \leq 850 \text{ N/mm}^2$

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



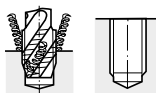
Metalli
Metals



Alluminio
Aluminum



	\emptyset	l	L	pcs	cod.	€ cad/each
NPTF	1/8 x 27	19	55	1	103071/8	39,984
	1/4 x 18	28	62	1	103071/4	44,688
	3/8 x 18	28	65	1	103073/8	52,920
	1/2 x 14	35	80	1	103071/2	81,488
	3/4 x 14	35	85	1	103073/4	108,277
	1" x 11,5	45	95	1	103071	154,828



MASCHI A MACCHINA AL COBALTO CORTI ISO 529

FILETTATURA AMERICANA UN

Short machine taps, American UN thread

10301

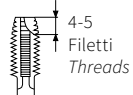
HSS-CO ISO 529-2B

8-UN

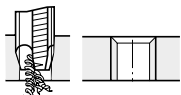


HSS-CO AISI M35
HV 820=850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
UN	1.1/8 x 8	48	138	20,0	1	103011.1/8	172,649
	1.1/4 x 8	51	151	22,4	1	103011.1/4	201,667
	1.1/2 x 8	60	170	28,0	1	103011.1/2	330,006
	2" x 8	70	200	35,5	1	103012	690,570
	2.1/4 x 8	76	221	40,0	1	103012.1/4	1.365,872
	2.1/2 x 8	79	224	40,0	1	103012.1/2	1.986,164



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO,
FILETTATURA AMERICANA UNC A PASSO GROSSO
HSS-CO TiAIN coated machine taps

10269

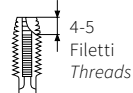
HSS-CO ANSI B1.1 ≈ DIN 371/B

UNC



HSS-CO AISI M35
HV 820-850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
UNC	6 x 32	12	56	4	1	10269NR06	25,741
	8 x 32	13	63	4,5	1	10269NR08	25,741
	10 x 24	15	70	6	1	10269NR10	25,741
	12 x 24	16	70	6	1	10269NR12	25,741
	1/4 x 20	17	80	7	1	102691/4	25,741
	5/16 x 18	20	90	8	1	102695/16	32,147
	3/8 x 16	22	100	9	1	102693/8	36,477



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10270

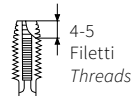
HSS-CO ≈ DIN 376/B

UNC

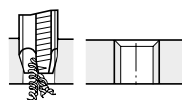


HSS-CO AISI M35
HV 820-850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
UNC	7/16 x 14	22	100	8	1	102707/16	42,871
	1/2 x 13	25	110	9	1	102701/2	42,871
	9/16 x 12	26	110	11	1	102709/16	64,295
	5/8 x 11	27	110	12	1	102705/8	64,295
	3/4 x 10	30	125	14	1	102703/4	124,305
	7/8 x 9	32	140	18	1	102707/8	149,844
	1" x 8	36	160	20	1	102701	171,255
	1.1/4 x 7	40	180	22	1	102701.1/4	251,178
	1.1/2 x 6	50	200	32	1	102701.1/2	582,269



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO, FILETTATURA AMERICANA UNC A PASSO GROSSO HSS-CO TiAlN coated machine taps

10271

HSS-CO ANSI B1.1 ≈ DIN 371/C-35°

UNC

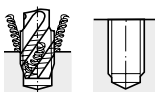


HSS-CO AISI M35
HV 820-850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
UNC	6 x 32	7	56	4	1	10271NR06	32,147
	8 x 32	8	63	4,5	1	10271NR08	32,147
	10 x 24	10	70	6	1	10271NR10	32,147
	12 x 24	10	70	6	1	10271NR12	32,147
	1/4 x 20	13	80	7	1	102711/4	32,147
	5/16 x 18	14	90	8	1	102715/16	42,871
	3/8 x 16	16	100	9	1	102713/8	44,190



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

10272

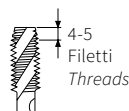
HSS-CO ≈ DIN 376/C-35°

UNC

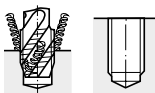


HSS-CO AISI M35
HV 820-850

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
UNC	7/16 x 14	17	100	8	1	102727/16	53,595
	1/2 x 13	20	110	9	1	102721/2	53,595
	9/16 x 12	20	110	11	1	102729/16	77,152
	5/8 x 11	22	110	12	1	102725/8	77,152
	3/4 x 10	25	125	14	1	102723/4	154,125
	7/8 x 9	27	140	18	1	102727/8	204,085
	1" x 8	30	160	20	1	102721	209,783
	1.1/4 x 7	35	180	22	1	102721.1/4	308,263
	1.1/2 x 6	40	200	32	1	102721.1/2	677,896



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO, FILETTATURA AMERICANA UNF A PASSO FINE

Machine taps, american UNF thread

10282

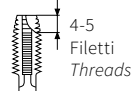
HSS-CO ANSI B1.1 ≈ DIN 371/B

UNF



HSS-CO AISI M35
HV 820-850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
UNF	6 x 40	12	56	4	1	10282NR06	25,803
	8 x 36	13	63	4,5	1	10282NR08	25,803
	10 x 32	15	70	6	1	10282NR10	25,803
	12 x 28	16	70	6	1	10282NR12	25,803
	1/4 x 28	17	80	7	1	102821/4	25,803
	5/16 x 24	17	90	8	1	102825/16	32,663
	3/8 x 24	18	100	9	1	102823/8	35,996



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

10283

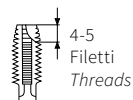
HSS-CO ≈ DIN 376/B

UNF



HSS-CO AISI M35
HV 820-850

FORM B



	Ø	l	L	d	pcs	cod.	€ cad/each
UNF	7/16 x 20	22	100	8	1	102837/16	41,492
	1/2 x 20	22	100	9	1	102831/2	41,492
	9/16 x 18	22	100	11	1	102839/16	63,528
	5/8 x 18	22	100	12	1	102835/8	63,528
	3/4 x 16	25	110	14	1	102833/4	124,391
	7/8 x 14	26	140	18	1	102837/8	149,461
	1" x 14	28	150	20	1	102831	166,590
	1.1/4 x 12	30	150	22	1	102831.1/4	234,242
	1.1/2 x 12	33	170	32	1	102831.1/2	541,594



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO,
FILETTATURA AMERICANA UNF A PASSO FINE
Machine taps, american UNF thread

10284

HSS-CO ANSI B1.1 \approx DIN 371/C-35°

UNF

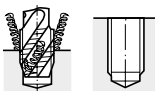


HSS-CO AISI M35
HV 820-850

FORM C



	\emptyset	<i>l</i>	L	d	pcs	cod.	€ cad/each
UNF	6 x 40	7	56	4	1	10284NR06	33,526
	8 x 36	8	63	4,5	1	10284NR08	33,526
	10 x 32	10	70	6	1	10284NR10	33,526
	12 x 28	10	70	6	1	10284NR12	33,526
	1/4 x 28	10	80	7	1	102841/4	33,526
	5/16 x 24	10	90	8	1	102845/16	40,484
	3/8 x 24	10	100	9	1	102843/8	46,206



R \leq 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

10285

HSS-CO \approx DIN 376/C-35°

UNF

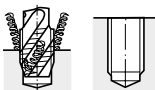


HSS-CO AISI M35
HV 820-850

FORM C



	\emptyset	<i>l</i>	L	d	pcs	cod.	€ cad/each
UNF	7/16 x 20	13	100	8	1	102857/16	51,268
	1/2 x 20	13	100	9	1	102851/2	51,268
	9/16 x 18	15	100	11	1	102859/16	76,896
	5/8 x 18	15	100	12	1	102855/8	76,896
	3/4 x 16	17	110	14	1	102853/4	171,345
	7/8 x 14	17	140	18	1	102857/8	188,479
	1" x 14	20	150	20	1	102851	207,324
	1.1/4 x 12	22	150	22	1	102851.1/4	309,349
	1.1/2 x 12	25	170	32	1	102851.1/2	669,940



R \leq 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO CORTI ISO 529
FILETTATURA AMERICANA UNEF
Short machine taps, American UNEF thread

10305

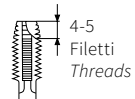
HSS-CO ISO 529-2B

UNEF



HSS-CO AISI M35
HV 820-850

FORM B



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



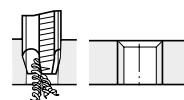
Acciaio
Steel



Metalli
Metals



Olio
Oil



	Ø	l	L	d	pcs	cod.	€ cad/each
UNEF	1/4 x 32	19	66	6,3	1	103051/4	22,000
	5/16 x 32	23	75	10,0	1	103055/16	31,167
	3/8 x 32	24	80	10,0	1	103053/8	31,167
	1/2 x 28	29	89	9,0	1	103051/2	36,670
	9/16 x 24	30	95	11,2	1	103059/16	55,304
	5/8 x 24	32	102	12,5	1	103055/8	56,524
	3/4 x 20	37	112	14,0	1	103053/4	104,506
	7/8 x 20	38	118	16,0	1	103057/8	128,340
	1" x 20	45	130	18,0	1	103051	146,668
	1.1/16 x 18	48	138	20,0	1	103051.1/16	172,649
	1.1/8 x 18	48	138	20,0	1	103051.1/8	172,649
	1.1/4 x 18	51	151	22,4	1	103051.1/4	201,667
	1.1/2 x 18	60	170	28,0	1	103051.1/2	330,006
	1.3/4 x 18	67	187	31,5	1	103051.3/4	446,118
	2" x 18	70	200	35,5	1	103052	690,570

MASCHI A MACCHINA IN HSS, SCANALATURE DIRITTE, IMB. CORRETTO,
FIL. METRICA ISO PASSO GROSSO
Machine taps, spiral point, metric thread

10162

HSS-G

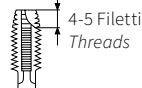
DIN 371/B ISO 2/6H

M



HSS-G AISI M2
HV 750

FORM B



R ≤ 850 N/mm²

Applicazioni
Applications



Acciaio
Steel



Olio
Oil



Metalli
Metals



Art. 10163 Self
Disponibile su richiesta
On demand



	Ø	l	L	d	pcs	cod.	€ cad/each
M	2 x 0,4	8	45	2,8	1	1016202x04	17,769
	2,5 x 0,45	9	50	2,8	1	10162025x045	17,769
	3 x 0,5	11	56	3,5	1	1016203x05	12,279
	3,5 x 0,6	13	56	4	1	10162035x06	20,303
	4 x 0,7	13	63	4,5	1	1016204x07	12,393
	5 x 0,8	16	70	6	1	1016205x08	12,667
	6 x 1	19	80	6	1	1016206x1	12,992
	7 x 1	19	80	7	1	1016207x1	18,211
	8 x 1,25	22	90	8	1	1016208x125	15,708
	10 x 1,5	24	100	10	1	1016210x15	18,211



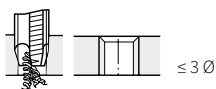
Art. 10240300
€ 99,420

7 pcs
M 3÷12



Art. 10240306
€ 121,958

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



Per fori passanti in acciai con R_s*N/mm², ghisa, metalli non ferrosi a truciolo lungo.
For through holes in steel with R_s*N/mm², cast iron, non ferrous metals with long chip

10165

HSS-G

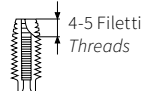
DIN 376/B ISO 2/6H

M



HSS-G AISI M2
HV 750

FORM B



Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3

R ≤ 850 N/mm²

Applicazioni
Applications



Acciaio
Steel



Olio
Oil



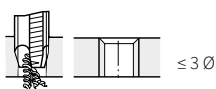
Metalli
Metals



Art. 10166 Self
Disponibile su richiesta
On demand



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	2,2	1	1016503X05	13,618
	4 x 0,7	13	63	2,8	1	1016504X07	13,981
	5 x 0,8	16	70	3,5	1	1016505X08	14,370
	6 x 1	19	80	4,5	1	1016506X1	14,645
	8 x 1,25	22	90	6	1	1016508X125	15,745
	10 x 1,5	24	100	7	1	1016510X15	18,476
	12 x 1,75	29	110	9	1	1016512X175	21,591
	14 x 2	30	110	11	1	1016514X2	27,138
	16 x 2	30	110	12	1	1016516X2	33,056
	18 x 2,5	34	125	14	1	1016518X25	45,360
	20 x 2,5	34	140	16	1	1016520X25	47,713
	22 x 2,5	34	140	18	1	1016522X25	60,600
	24 x 3	38	160	18	1	1016524X3	72,336
	27 x 3	38	160	20	1	1016527X3	141,340
	30 x 3,5	45	180	22	1	1016530X35	170,582
	33 x 3,5	50	180	25	1	1016533X35	249,915
	36 x 4	56	200	28	1	1016536X4	251,812
	39 x 4	60	200	32	1	1016539X4	321,669
	42 x 4,5	60	200	32	1	1016542X45	362,283
	45 x 4,5	65	220	36	1	1016545X45	422,395
48 x 5	70	250	36	1	1016548X5	513,369	
52 x 5	70	250	40	1	1016552X5	573,479	



Per fori passanti in acciai con R_s*N/mm², ghisa, metalli non ferrosi a truciolo lungo.
For through holes in steel with R_s*N/mm², cast iron, non ferrous metals with long chip

MASCHI A MACCHINA IN HSS, SCANALATURE DIRITTE,
IMB. "C", FIL. ISO PASSO GROSSO
Machine taps, "C" chamfer form, metric thread

10168

HSS-G

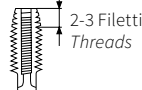
DIN 371/C ISO 2/6H

M



HSS-G AISI M2
HV 750

FORM C



R ≤ 700 N/mm²



Applicazioni
Applications



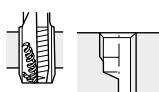
Acciaio
Steel



Olio
Oil



Metalli
Metals



≤ 1,5 Ø

Per fori ciechi e passanti in acciai e ghisa con R 700 ≤ *N/mm²
For blind and trough holes in steel with R 700 ≤ *N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
M	2 x 0,4	8	45	2,8	1	1016802X04	17,798
	2,3 x 0,4	9	45	2,8	1	10168023X04	17,798
	2,5 x 0,45	9	50	2,8	1	10168025X045	17,798
	2,6 x 0,45	9	50	2,8	1	10168026X045	17,798
	3 x 0,5	11	56	3,5	1	1016803X05	11,434
	3,5 x 0,6	13	56	4	1	10168035X06	18,044
	4 x 0,7	13	63	4,5	1	1016804X07	11,434
	5 x 0,8	16	70	6	1	1016805X08	11,695
	6 x 1	19	80	6	1	1016806X1	12,426
	7 x 1	19	80	7	1	1016807X1	15,307
8 x 1,25	22	90	8	1	1016808X125	13,964	
10 x 1,5	24	100	10	1	1016810X15	16,780	

10171

HSS-G

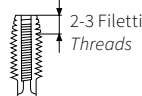
DIN 376/C ISO 2/6 H

M



Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3

FORM C



R ≤ 700 N/mm²



Applicazioni
Applications



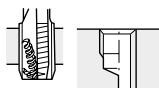
Acciaio
Steel



Olio
Oil



Metalli
Metals



≤ 1,5 Ø

Per fori ciechi e passanti in acciai e ghisa con R 700 ≤ *N/mm²
For blind and trough holes in steel with R 700 ≤ *N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	2,2	1	1017103X05	12,882
	4 x 0,7	13	63	2,8	1	1017104X07	13,116
	5 x 0,8	16	70	3,5	1	1017105X08	13,586
	6 x 1	19	80	4,5	1	1017106X1	13,782
	8 x 1,25	22	90	6	1	1017108X125	14,812
	10 x 1,5	24	100	7	1	1017110X15	17,380
	12 x 1,75	29	110	9	1	1017112X175	20,835
	14 x 2	30	110	11	1	1017114X2	25,725
	16 x 2	32	110	12	1	1017116X2	30,275
	18 x 2,5	34	125	14	1	1017118X25	48,416
	20 x 2,5	34	140	16	1	1017120X25	51,490
	22 x 2,5	34	140	18	1	1017122X25	64,821
	24 x 3	38	160	18	1	1017124X3	70,892
	27 x 3	38	160	20	1	1017127X3	121,850
	30 x 3,5	45	180	22	1	1017130X35	148,917
	33 x 3,5	50	180	25	1	1017133X35	191,224
	36 x 4	56	200	28	1	1017136X4	213,223
	39 x 4	60	200	32	1	1017139X4	277,527
	42 x 4,5	60	200	32	1	1017142X45	309,679
	45 x 4,5	65	220	36	1	1017145X45	355,380
48 x 5	70	250	36	1	1017148X5	426,444	
52 x 5	70	250	40	1	1017152X5	504,297	

MASCHI A MACCHINA IN HSS, SCANALATURE DESTRE 15°, IMB. "C",
FIL.METRICA ISO PASSO GROSSO
Machine taps, 15° spiral flute, metric thread

10174

HSS-G

DIN 371/C-15° ISO 2/6H

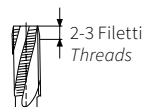
M



HSS-G AISI M2
HV 750



FORM C



R ≤ 700 N/mm²

Applicazioni
Applications



Acciaio
Steel



Olio
Oil



Metalli
Metals

	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	3,5	1	1017403X05	14,720
	4 x 0,7	13	63	4,5	1	1017404X07	15,020
	5 x 0,8	16	70	6	1	1017405X08	15,164
	6 x 1	19	80	6	1	1017406X1	15,672
	8 x 1,25	22	90	8	1	1017408X125	17,288
	10 x 1,5	24	100	10	1	1017410X15	20,614



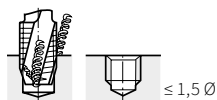
Art. 1024031I
€ 100,743

7 pcs
M 3÷12



Art. 10240312
€ 124,606

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



Per fori ciechi in acciai con R_s ≤ N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo.

For blind holes in steel with R_s ≤ N/mm², malleable cast iron, non ferrous metals with long chip.

10177

HSS-G

DIN 376/C-15° ISO 2/6H

M

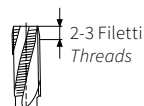


HSS-G AISI M2
HV 750

Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



FORM C



R ≤ 700 N/mm²

Applicazioni
Applications



Acciaio
Steel

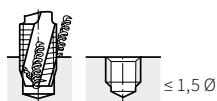


Olio
Oil



Metalli
Metals

	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	11	56	2,2	1	1017703X05	15,933
	4 x 0,7	13	63	2,8	1	1017704X07	16,754
	5 x 0,8	16	70	3,5	1	1017705X08	16,923
	6 x 1	19	80	4,5	1	1017706X1	17,198
	8 x 1,25	22	90	6	1	1017708X125	18,411
	10 x 1,5	24	100	7	1	1017710X15	23,586
	12 x 1,75	29	110	9	1	1017712X175	26,768
	14 x 2	30	110	11	1	1017714X2	32,779
	16 x 2	30	110	12	1	1017716X2	38,254
	18 x 2,5	34	125	14	1	1017718X25	59,181
	20 x 2,5	34	140	16	1	1017720X25	63,005
	22 x 2,5	34	140	18	1	1017722X25	79,574
	24 x 3	38	160	18	1	1017724X3	86,085



Per fori ciechi in acciai con R_s ≤ N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo.

For blind holes in steel with R_s ≤ N/mm², malleable cast iron, non ferrous metals with long chip.

MASCHI A MACCHINA IN HSS, SCANALATURE DESTRE 35°,
IMB. "C", FIL. METRICA ISO
Machine taps, 35° spiral flute, metric coarse thread

10183

HSS-G

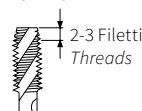
DIN 371/C-35° ISO 2/6H

M



HSS-G AISI M2
HV 750

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	2 x 0,4	6	45	2,8	1	1018302X04	28,828
	2,5 x 0,45	6	50	2,8	1	10183025X045	28,828
	3 x 0,5	6	56	3,5	1	1018303X05	16,610
	3,5 x 0,6	13	56	4	1	10183035X06	23,729
	4 x 0,7	7	63	4,5	1	1018304X07	16,610
	5 x 0,8	8	70	6	1	1018305X08	16,780
	6 x 1	10	80	6	1	1018306X1	17,563
	7 x 1	19	80	7	1	1018307X1	24,773
	8 x 1,25	14	90	8	1	1018308X125	19,257
	10 x 1,5	16	100	10	1	1018310X15	23,040

R ≤ 700 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



Art. 10240305
€ 119,299

7 pcs
M3-12



Art. 10240307
€ 135,206

14 pcs
M 3-12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



Art. 10240310
€ 209,441

14 pcs
DIN 371/
B+371/C 35°

10180

HSS-G

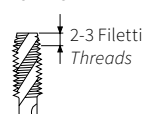
DIN 376/C-35° ISO 2/6H

M



HSS-G AISI M2
HV 750

FORM C



	Ø	l	L	d	pcs	cod.	€ cad/each
M	3 x 0,5	5	56	2,2	1	1018003X05	18,462
	4 x 0,7	7	63	2,8	1	1018004X07	18,462
	5 x 0,8	8	70	3,5	1	1018005X08	18,708
	6 x 1	10	80	4,5	1	1018006X1	19,034
	8 x 1,25	13	90	6	1	1018008X125	20,170
	10 x 1,5	15	100	7	1	1018010X15	25,203
	12 x 1,75	18	110	9	1	1018012X175	29,350
	14 x 2	20	110	11	1	1018014X2	37,172
	16 x 2	22	110	12	1	1018016X2	45,229
	18 x 2,5	25	125	14	1	1018018X25	59,506
	20 x 2,5	25	140	16	1	1018020X25	72,285
	22 x 2,5	25	140	18	1	1018022X25	88,720
	24 x 3	30	160	18	1	1018024X3	96,537
	27 x 3	30	160	20	1	1018027X3	144,266
	30 x 3,5	35	180	22	1	1018030X35	175,289
	33 x 3,5	35	180	25	1	1018033X35	280,140
	36 x 4	40	200	28	1	1018036X4	304,290
	39 x 4	40	200	32	1	1018039X4	392,196
	42 x 4,5	45	200	32	1	1018042X45	459,816
	45 x 4,5	45	220	36	1	1018045X45	513,912
48 x 5	50	250	36	1	1018048X5	568,008	
52 x 5	50	250	40	1	1018052X5	676,200	

R ≤ 700 N/mm²

Applicazioni
Applications



Acciaio
Steel



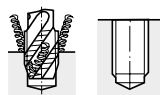
Metalli
Metals



Alluminio
Aluminum



Olio
Oil



≤ 3 Ø

Per fori ciechi in acciai con R_s*N/mm² ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For blind holes in steel with R_s*N/mm² malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.

MASCHI A MACCHINA IN HSS "CORTI"

ISO 529

Short machine taps ISO 529

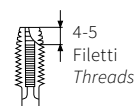
10172

HSS-G

ISO 529/B

M - Corti

FORM B

Applicazioni
ApplicationsAcciaio
SteelMetalli
MetalsOlio
Oil

	Ø	l	L	d	pcs	cod.	€ cad/each
M	2 x 0,4	8	41	2,5	1	1017202X04	19,256
	2,5 x 0,45	9,5	44,5	2,8	1	10172025X045	19,256
	2,6 x 0,45	9,5	44,5	2,9	1	10172026X045	19,256
	3 x 0,5	11	48	3,15	1	1017203X05	11,384
	3,5 x 0,6	13	50	3,55	1	10172035X06	12,144
	4 x 0,7	13	53	4	1	1017204X07	11,384
	5 x 0,8	16	58	5	1	1017205X08	13,471
	6 x 1	19	66	6,3	1	1017206X1	13,471
	8 x 1,25	22	72	8	1	1017208X125	15,549
	10 x 1,5	24	80	10	1	1017210X15	19,703
	12 x 1,75	29	89	9	1	1017212X175	26,930



≤ 3Ø

Per fori passanti in acciai con $R_s \leq N/mm^2$, ghisa, metalli non ferrosi a truciolo lungo.For through holes in steel with $R_s \leq N/mm^2$, cast iron, non ferrous metals with long chipArt. 10240313
€ 108,4667 pcs HSS
M 3÷12

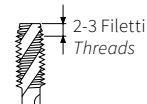
10173

HSS-G

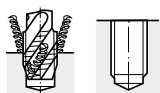
ISO 529/C 35°

M - Corti

FORM C

Applicazioni
ApplicationsAcciaio
SteelMetalli
MetalsAlluminio
AluminumOlio
Oil

	Ø	l	L	d	pcs	cod.	€ cad/each
M	2,5 x 0,45	9,5	44,5	2,8	1	10173025X045	25,312
	2,6 x 0,45	9,5	44,5	2,9	1	10173026X045	25,312
	3 x 0,5	11	48	3,15	1	1017303X05	16,018
	4 x 0,7	13	53	4	1	1017304X07	16,018
	5 x 0,8	16	58	5	1	1017305X08	16,629
	6 x 1	19	66	6,3	1	1017306X1	16,629
	8 x 1,25	22	72	8	1	1017308X125	18,705
	10 x 1,5	24	80	10	1	1017310X15	24,408
	12 x 1,75	29	89	9	1	1017312X175	33,162



≤ 3Ø

Per fori ciechi in acciai con $R_s \leq N/mm^2$ ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.For blind holes in steel with $R_s \leq N/mm^2$ malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.Art. 10240314
€ 124,8277 pcs HSS
M 3÷12

UTENSILE COMBINATO IN HSS CON ATTACCO ESAGONALE 1/4"

PER AVVITATORI E TRAPANI REVERSIBILI

Combined bits for drilling-threading-deburring in one operation with 1/4" hexagon drive

10230

HSS-G

TiN

M



R ≤ 1200 N/mm²

Applicazioni Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Plastica
Plastic



	Ø	l	L	Hex	pcs	cod.	€ cad/each
M	3 x 0,5	2,5	36	1/4	1	1023003x05	16,064
	4 x 0,7	3,3	39	1/4	1	1023004x07	16,064
	5 x 0,8	4,2	41	1/4	1	1023005x08	16,064
	6 x 1	5	44	1/4	1	1023006x1	16,064
	8 x 1,25	6,8	50	1/4	1	1023008x125	21,052
	10 x 1,5	8,5	59	1/4	1	1023010x15	21,052

10212

HSS-G

M



R ≤ 600 N/mm²

Applicazioni Applications



Metalli
Metals



Leghe leggere
Light alloys



Plastica
Plastic



Art. 10213 Self
Disponibile su richiesta
On demand

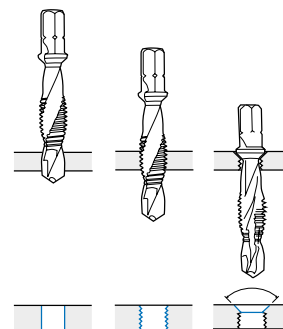
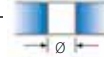
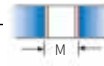
	Ø	l	L	Hex	pcs	cod.	€ cad/each
M	3 x 0,5	2,5	36	1/4	1	1021203x05	11,030
	4 x 0,7	3,3	39	1/4	1	1021204x07	11,030
	5 x 0,8	4,2	41	1/4	1	1021205x08	11,030
	6 x 1	5	44	1/4	1	1021206x1	11,030
	8 x 1,25	6,8	50	1/4	1	1021208x125	12,583
	10 x 1,5	8,5	59	1/4	1	1021210x15	12,583

Attacco esagonale 1/4" per avvitori,
trapani a batteria, trapani portatili
e stazionari reversibili
1/4 hex shank for battery powered
screwdriver, reversible hand powered drills
and stationary power drills

Svasatore
Deburrer

Maschio filettatore
Threading tap

Punta per preforo con affilatura
auto-centrante
Split point self-centering twist drill



Per forare, filettare e svasare in acciaio, alluminio, metalli non ferrosi in genere, plastica sino a R≤600 N/mm² e profondità 1xD.

Drilling, threading and deburring in steel, aluminium, plastics with R≤600 N/mm² and depth 1xD.

MASCHI IN HSS CON ATTACCO ESAGONALE 1/4" PER FILETTARE CON AVVITATORI E TRAPANI REVERSIBILI

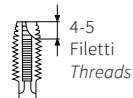
Threading bits with 1/4" hex drive

10210

HSS-G

M

FORM B



R ≤ 700 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Olio
Oil



	Ø	l	L	Hex	pcs	cod.	€ cad/each
M	3 x 0,5	11	33	1/4	1	1021003x05	9,336
	4 x 0,7	12	35	1/4	1	1021004x07	9,336
	5 x 0,8	15	36	1/4	1	1021005x08	10,198
	6 x 1	18	39	1/4	1	1021006x1	10,198
	8 x 1,25	19	40	1/4	1	1021008x125	11,060
	10 x 1,5	21	41	1/4	1	1021010x15	11,441

MASCHI A MACCHINA IN HSS, SCANALATURE DIRITTE, IMBOCCO "C", FIL. METRICA ISO A PASSO FINE

Machine taps, "C" chamfer form, metric fine thread

10198

HSS-G

DIN 374/C-15° ISO 2/6H

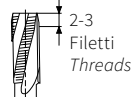
MF



HSS-CO AISI M35
HV 820÷850



FORM C



R ≤ 700 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Olio
Oil



Per fori ciechi in acciai con R_s ≤ N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo.
For blind holes in steel with R_s ≤ N/mm², malleable cast iron, non ferrous metals with long chip.

	Ø	l	L	d	pcs	cod.	€ cad/each
M	4 x 0,5	10	63	2,8	1	1019804X05	14,126
	5 x 0,5	12	70	3,5	1	1019805X05	14,300
	6 x 0,75	14	80	4,5	1	1019806X075	14,343
	8 x 1	22	90	6,0	1	1019808X1	14,452
	10 x 1	20	90	7,0	1	1019810X1	14,840
	10 x 1,25	24	100	7,0	1	1019810X125	20,182
	12 x 1	22	100	9,0	1	1019812X1	17,612
	12 x 1,25	22	100	9,0	1	1019812X125	22,107
	14 x 1,25	22	100	11,0	1	1019814X125	24,860
	14 x 1,5	22	100	11,0	1	1019814X15	22,516
	22 x 1,5	25	125	18,0	1	1019822X15	41,382
	24 x 1,5	28	140	18,0	1	1019824X15	41,382
	24 x 2	28	140	18,0	1	1019824X2	44,287

MASCHI A MACCHINA IN HSS,
FILETTATURA GAS CILINDRICA BSP
Machine taps, BSP pipe-thread

10204

HSS-G

DIN 374/C-15°

BSP

R ≤ 700 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Olio
Oil



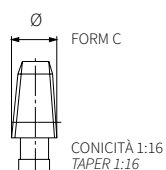
	Ø	l	L	d	pcs	cod.	€ cad/each
G	1/8 x 28	20	90	7	1	102041/8	13,812
	1/4 x 19	22	100	11	1	102041/4	22,714
	3/8 x 19	22	100	12	1	102043/8	23,877
	3/4 x 14	28	140	20	1	102043/4	51,978
	1" x 11	30	160	25	1	102041	76,110

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI,
FILETTATURA GAS CONICA BSPT
BSPT tapered thread taps

10139

HSS-G

BSPT - Conici



R ≤ 700 N/mm²

Applicazioni
Applications



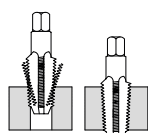
Acciaio
Steel



Metalli
Metals



Olio
Oil



	Ø	l	L	pcs	cod.	€ cad/each
	1/8 x 28	15	59	1	101391/8	39,555
	1/4 x 19	19	67	1	101391/4	45,825
	3/8 x 19	21	75	1	101393/8	56,665
	1/2 x 14	26	87	1	101391/2	75,506
	3/4 x 14	28	96	1	101393/4	118,073
	1" x 11	33	109	1	101391	169,019
	1.1/4 x 11	36	119	1	101391.1/4	291,281
	1.1/2 x 11	37	125	1	101391.1/2	378,788
	2" x 11	41	140	1	101392	673,659

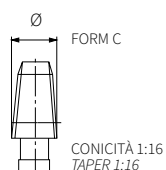
MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI,
FILETTATURA AMERICANA NPT - BSPT
NPT taper thread taps

10134

HSS-G

ANSI B 2.1

NPT - Conici



R ≤ 700 N/mm²

Applicazioni
Applications



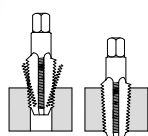
Acciaio
Steel



Metalli
Metals



Olio
Oil



	Ø	l	L	pcs	cod.	€ cad/each
NPT	1/16 x 27	19	54	1	101341/16	34,864
	1/8 x 27	19	54	1	101341/8	39,555
	1/4 x 18	27	62	1	101341/4	45,825
	3/8 x 18	27	65	1	101343/8	56,665
	1/2 x 14	35	79	1	101341/2	85,801
	3/4 x 14	35	83	1	101343/4	141,445
	1" x 11,5	44	95	1	101341	221,762
	1.1/4 x 11,5	44	102	1	101341.1/4	353,607
	1.1/2 x 11,5	44	108	1	101341.1/2	460,290
	2" x 11,5	44	114	1	101342	825,890





UTENSILI A FILETTARE: MASCHI A MANO

THREADING TOOLS: HAND TAPS

VISIONE D'INSIEME: MASCHI A MANO

Overview: hand taps

MATERIALE MATERIAL	RIVESTIMENTO COATING	FILETTATURA THREAD	SPECIALITÀ FEATURES	DIAMETRO FORO HOLE DIAMETER	NORMA STANDARD	N° PEZZI N. OF PIECES	IMMAGINE IMAGE	INOX STAINLESS STEEL	ACCIAIO <1400 N/mm STEEL <1400 N/MM	ACCIAIO <900 N/mm STEEL <900 N/MM	ACCIAIO <700 N/mm ACCIAIO <700 N/MM	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM/ALLOYS	R=SN/mm²	COD.	
HSS Co	VAPO	M	-	3÷12	352	3		✓	✓	✓	✓	✓	✓	1400	10147	308
	-		-	3÷30	352	3		✓	✓	✓	✓	✓	✓	1200	10144	308
	-	MF	-	6÷24	2181	2		✓	✓	✓	✓	✓	✓	1200	10146	309
	-	BSP	-	1/8÷1"	5157	2		✓	✓	✓	✓	✓	✓	1200	10148	309
HSS-G	TiN	M	-	3÷20	352	3		✓	✓	✓	✓	✓	✓	950	10155	311
	-		-	1÷72	352	3		✓	✓	✓	✓	✓	✓	800	10100	310
	-		FINITORE FINITORE	3÷30	352	1		✓	✓	✓	✓	✓	✓	800	10100	310
	-	SINISTRI SINISTRI	3÷52	352	3		✓	✓	✓	✓	✓	✓	800	10102	311	
	-	MF	-	2÷82	2181	2		✓	✓	✓	✓	✓	✓	800	10105	312
	-		PER TUBI CONDUZIONE ELETTRICA PER TUBI CONDUZIONE ELETTRICA	12÷63	2181	2		✓	✓	✓	✓	✓	✓	800	10105	312
	-		SINISTRI SINISTRI	6÷38	2181	2		✓	✓	✓	✓	✓	✓	800	10107	314
	-	BSP	PER TUBI PER TUBI	1/8÷4"	5157	2		✓	✓	✓	✓	✓	✓	800	10115	315
	-		SINISTRI SINISTRI	1/8÷2"	5157	2		✓	✓	✓	✓	✓	✓	800	10117	315
	-	BSPT	CONICI 1:16 CONICI 1:16	1/8÷2"	-	1		✓	✓	✓	✓	✓	✓	800	10139	303
	-	BSF	-	3÷16÷1"	2181	2		✓	✓	✓	✓	✓	✓	800	10112	316
	-	BSW	-	1/16÷2"	352	3		✓	✓	✓	✓	✓	✓	800	10110	317
	-		SINISTRI SINISTRI	1/8÷1"	352	3		✓	✓	✓	✓	✓	✓	800	10111	317
	-	NPT	CONICI 1:16 CONICI 1:16	1/16÷2"	ANSI B2.1	1		✓	✓	✓	✓	✓	✓	800	10134	303
	-	UNC	-	1÷2"	352	3		✓	✓	✓	✓	✓	✓	800	10120	319
-	SINISTRI SINISTRI		6 ÷ 1"	352	3		✓	✓	✓	✓	✓	✓	800	10122	319	

MATERIALE MATERIAL	RIVESTIMENTO COATING	FILETTATURA THREAD	SPECIALITÀ FEATURES	DIAMETRO FORO HOLE DIAMETER	NORMA STANDARD	N° PEZZI N. OF PIECES	IMMAGINE IMAGE	INOX STAINLESS STEEL	ACCIAIO <1400 N/mm STEEL <1400 N/MM	ACCIAIO <900 N/mm STEEL <900 N/MM	ACCIAIO <700 N/mm ACCIAIO <700 N/MM	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM/ALLOYS	R _{sN} /mm ²	COD.	
HSS-G	-	UNF	-	0÷1.1/2	2181	2				✓	✓	✓	✓	800	10125	320
	-	UNF	SINISTRI SINISTRI	10÷1"	2181	2				✓	✓	✓	✓	800	10127	320
	-	Pg	PER TUBI CONDUZIONE ELETTRICA PER TUBI CONDUZIONE ELETTRICA		40432	2				✓	✓	✓	✓	800	10136	321
	-	M + MF	STI - PER INSERIMENTO INSERTI FILETTATI STI - PER INSERIMENTO INSERTI FILETTATI	2÷36	ISO 1/4 H	1				✓	✓	✓	✓	800	10612	405
	-	BSP		1/8÷1"		2				✓	✓	✓	✓	800	10617	406
	-	BSF		3/16÷1"		1				✓	✓	✓	✓	800	10616	406
	-	BSW		1/8÷1"		1				✓	✓	✓	✓	800	10615	406
	-	UNC		8÷1"		1				✓	✓	✓	✓	800	10613	406
	-	UNF		8÷1"		1				✓	✓	✓	✓	800	10614	406
	-	M + MF		COMBI - PER INSERTI FILETTATI - SPECIALE CANDELE COMBI - PER INSERTI FILETTATI - SPECIALE CANDELE	6÷18		1				✓	✓	✓	✓	800	10620
-	M	FINITORE FINITORE		2÷16	4535	1				✓	✓	✓	✓	600	10001	322
-	M	PER FORI PASSANTI SPECIALI PER DADI PER FORI PASSANTI SPECIALI PER DADI	3÷12	357	1				✓	✓	✓	✓	600	10030	323	
C.V.	-	M + MF	-	2÷30	4535	2				✓	✓	✓	✓	600	10003	324
	-	MF	FINITORE FINITORE	6÷18	4535	1				✓	✓	✓	✓	600	10003	324
	-	BSP	PER TUBI PER TUBI	1/8÷2"	338	2				✓	✓	✓	✓	600	10015	326
	-	BSPT	CONICI 1:16 CONICI 1:16	1/8÷2"	6125	1				✓	✓	✓	✓	600	10017	326
	-	BSF	-	3/16÷1"	2709	2				✓	✓	✓	✓	600	10012	326
	-	BSW	-	1/8÷2"	2709	3				✓	✓	✓	✓	600	10010	327
	-	NPT	CONICI 1:16 CONICI 1:16	1/8÷2"	ANSI B2.1	1				✓	✓	✓	✓	600	10032	327
	-	UNC	-	5÷1.1/2	ANSI B1.1	3				✓	✓	✓	✓	600	10020	328
	-	UNF	-	5÷1.1/2	ANSI B1.1	2				✓	✓	✓	✓	600	10025	329

MASCHI A MANO AL COBALTO SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO

Hand taps, 3 pcs set, metric coarse ISO thread

10147

HSS-CO

VAPO

DIN 352 ISO 2/6H

M



HRC = 64+65
AISI M35



R ≤ 1400 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



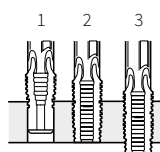
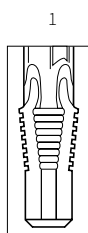
Olio
Oil



Metalli
Metals



Alluminio
Aluminum



Sbozzatore con guida
Taper with guide

	Ø	l	L	pcs	cod.	€ cad/each
M	3 x 0,5	11	40	1	1014703X05	61,012
	4 x 0,7	13	45	1	1014704X07	61,012
	5 x 0,8	16	50	1	1014705X08	64,836
	6 x 1	19	56	1	1014706X1	64,836
	8 x 1,25	22	63	1	1014708X125	72,483
	10 x 1,5	24	70	1	1014710X15	97,289
	12 x 1,75	29	75	1	1014712X175	131,007

Finitura: Ossidazione in vapore di Fe₃O₄ che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe₃O₄, increasing surface hardness and wear resistance.

10144

HSS-CO

DIN 352 ISO 2/6H

M



HRC = 64+65
AISI M35



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

	Ø	l	L	pcs	cod.	€ cad/each
M	3 x 0,5	11	40	1	1014403X05	26,258
	4 x 0,7	13	45	1	1014404X07	26,258
	5 x 0,8	14	50	1	1014405X08	27,171
	6 x 1	16	56	1	1014406X1	28,502
	8 x 1,25	18	63	1	1014408X125	31,381
	10 x 1,5	24	70	1	1014410X15	39,884
	12 x 1,75	29	75	1	1014412X175	51,044
	14 x 2	30	80	1	1014414X2	69,403
	16 x 2	32	80	1	1014416X2	83,772
	18 x 2,5	40	95	1	1014418X25	142,430
	20 x 2,5	40	95	1	1014420X25	152,299
	22 x 2,5	40	100	1	1014422X25	180,515
	24 x 3	50	110	1	1014424X3	233,530
	27 x 3	50	110	1	1014427X3	308,127
	30 x 3,5	56	125	1	1014430X35	392,465

Per filettature in acciai molto duri ed abrasivi, acciai inox, acciai resistenti al calore con R_s1200 N/mm².

For thread in stainless steel, heat-resistant steel, high alloy steel R_s1200 N/mm².

MASCHI A MANO AL COBALTO SERIE DI 2 PEZZI, FILETTATURA METRICA ISO A PASSO FINE

Hand taps, 2 pcs set, metric fine ISO thread

10146

HSS-CO

DIN 2181 ISO 2/6H

MF



HRC = 64+65
AISI M35



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

	Ø	l	L	pcs	cod.	€ cad/each
M	6 x 0,75	14	50	1	1014606x075	38,045
	8 x 0,75	19	50	1	1014608x075	44,734
	8 x 1	22	56	1	1014608x1	38,045
	10 x 1	20	63	1	1014610x1	40,615
	10 x 1,25	24	70	1	1014610x125	50,445
	12 x 1	22	70	1	1014612x1	52,449
	12 x 1,25	22	70	1	1014612x125	66,576
	12 x 1,5	22	70	1	1014612x15	50,684
	14 x 1,25	22	70	1	1014614x125	73,116
	14 x 1,5	22	70	1	1014614x15	63,320
	16 x 1,5	22	70	1	1014616x15	67,724
	18 x 1,5	22	80	1	1014618x15	88,347
	18 x 2	22	80	1	1014618x2	113,216
	20 x 1,5	22	80	1	1014620x15	97,168
	20 x 2	22	80	1	1014620x2	121,003
	22 x 1,5	22	80	1	1014622x15	124,102
	22 x 2	22	80	1	1014622x2	142,717
	24 x 1,5	22	90	1	1014624x15	142,717

Per filettature in acciai molto duri ed abrasivi, acciai inox, acciai resistenti al calore con R≤1200 N/mm².

For thread in stainless steel, heat-resistant steel, high alloy steel R≤1200 N/mm².

MASCHI A MANO AL COBALTO SERIE DI 2 PEZZI, FILETTATURA GAS CILINDRICA ISO 228 PER TUBI

Hand taps, 2 pcs set, Wh pipe thread ISO 228

10148

HSS-CO

DIN 5157

BSP (GAS)



HRC = 64+65
AISI M35



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

	Ø	l	L	pcs	cod.	€ cad/each
G	1/8 x 28	20	63	1	101481/8	45,090
	1/4 x 19	22	70	1	101481/4	59,593
	3/8 x 19	22	70	1	101483/8	81,496
	1/2 x 14	22	80	1	101481/2	119,880
	3/4 x 14	22	90	1	101483/4	174,373
	1" x 11	25	100	1	101481	276,537

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO

Hand taps, 3 pcs set, metric coarse ISO thread

10100

HSS-G

DIN 352 ISO 2/6H

M



HRC = 63±63,5
AISI M2



$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



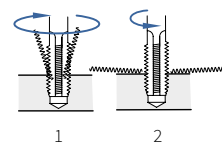
Alluminio
Aluminum



Olio
Oil



Art. 10101 Self
Disponibile su richiesta
On demand



È buona norma, ad ogni rotazione del maschio (1),
effettuare mezzo giro indietro (2) per rompere il truciolo
Please rotate clockwise the tap (1)
then rotate anticlockwise (2) to break the chip.

Per filettature in fori ciechi e passanti
in acciaio da costruzione, acciai da bonifica,
materiali metallici in genere sino a
 $R \leq 800 \text{ N/mm}^2$

For making threads in blind and through
holes in structural steel, malleable cast iron,
heat-treatable steel $R \leq 800 \text{ N/mm}^2$.

Maschio a mano finitore
Bottoming hand tap

HSS-G
DIN 352 III



	Ø	l	L	pcs	cod.	€ cad/each
M	1 x 0,25	8	32	1	1010001X025	132,559
	1,1 x 0,25	8	32	1	10100011X025	132,559
	1,2 x 0,25	8	32	1	10100012X025	132,559
	1,4 x 0,3	10	32	1	10100014X03	132,559
	1,6 x 0,35	10	32	1	10100016X035	132,559
	1,7 x 0,35	10	32	1	10100017X035	132,559
	1,8 x 0,35	10	32	1	10100018X035	132,559
	2 x 0,4	10	36	1	1010002X04	23,326
	2,2 x 0,45	11	36	1	10100022X045	31,358
	2,3 x 0,4	11	36	1	10100023X04	31,358
	2,5 x 0,45	12	40	1	10100025X045	26,038
	2,6 x 0,45	12	40	1	10100026X045	27,642
	3 x 0,5	11	40	1	1010003X05	16,585
	3,5 x 0,6	14	45	1	10100035X06	24,030
	4 x 0,7	13	45	1	1010004X07	17,406
	4,5 x 0,75	16	50	1	10100045X075	30,641
	5 x 0,8	16	50	1	1010005X08	18,097
	5 x 1	16	56	1	1010005X1	33,600
	5,5 x 0,9	18	50	1	10100055X09	48,568
	6 x 1	19	56	1	1010006X1	18,515
	7 x 1	19	56	1	1010007X1	25,099
	8 x 1,25	22	63	1	1010008X125	20,131
	9 x 1,25	22	63	1	1010009X125	32,505
	10 x 1,5	24	70	1	1010010X15	26,050
	11 x 1,5	24	70	1	1010011X15	45,935
	12 x 1,75	28	75	1	1010012X175	33,143
	13 x 1,75	28	75	1	1010013X175	86,001
	14 x 2	30	80	1	1010014X2	41,956
	15 x 2	32	80	1	1010015x2	86,027
	16 x 2	32	80	1	1010016X2	49,690
	18 x 2,5	34	95	1	1010018X25	83,446
	20 x 2,5	34	95	1	1010020X25	90,095
	22 x 2,5	34	100	1	1010022X25	104,696
	24 x 3	38	110	1	1010024X3	120,605
	27 x 3	38	110	1	1010027X3	170,671
	28 x 3	38	110	1	1010028X3	205,714
	30 x 3,5	45	125	1	1010030X35	230,654
	33 x 3,5	50	132	1	1010033X35	277,912
	36 x 4	56	150	1	1010036X4	325,368
	39 x 4	56	150	1	1010039X4	517,337
	42 x 4,5	63	160	1	1010042X45	539,835
	45 x 4,5	63	160	1	1010045X45	624,727
	48 x 5	68	180	1	1010048X5	874,330
	52 x 5	68	180	1	1010052X5	899,714
	56 x 5,5	85	200	1	1010056X55	1.116,892
	60 x 5,5	85	200	1	1010060X55	1.415,860
	64 x 6	90	220	1	1010064X6	1.499,055
	68 x 6	90	220	1	1010068X6	1.666,871
	72 x 6	90	240	1	1010072X6	4.041,847

	Ø	l	L	pcs	cod.	€ cad/each
M	3 x 0,5	12	40	1	1010003X053	5,542
	4 x 0,7	14	45	1	1010004X073	5,803
	5 x 0,8	14	50	1	1010005X083	6,023
	6 x 1	16	56	1	1010006X13	6,168
	8 x 1,25	18	63	1	1010008X1253	6,713
	10 x 1,5	25	70	1	1010010X153	8,683
	12 x 1,75	30	75	1	1010012X1753	11,044
	14 x 2	32	80	1	1010014X23	13,991
	16 x 2	32	80	1	1010016X23	16,559
	18 x 2,5	40	95	1	1010018X253	26,559
	20 x 2,5	40	95	1	1010020X253	29,988

MASCHI A MANO IN HSS CON RIVESTIMENTO AL TiN, SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO

Titan coated hand taps, metric coarse ISO thread

10155
HSS-G
TiN
DIN 352 ISO 2/6H
M

 HV 0,05 = 2500
 AISI M2

 Applicazioni
 Applications

 Inco
 Stainless

 Acciaio
 Steel

 Metalli
 Metals

 Alluminio
 Aluminum

 Olio
 Oil

	Ø	l	L	pcs	cod.	€ cad/each
M	3 x 0,5	12	40	1	1015503X05	36,802
	4 x 0,7	14	45	1	1015504X07	29,868
	4,5 x 0,75	16	50	1	10155045X075	29,868
	5 x 0,8	16	50	1	1015505X08	30,467
	6 x 1	18	56	1	1015506X1	31,091
	8 x 1,25	22	63	1	1015508X125	48,449
	10 x 1,5	25	70	1	1015510X15	53,367
	12 x 1,75	30	75	1	1015512X175	69,859
	14 x 2	32	80	1	1015514X2	87,913
	16 x 2	32	80	1	1015516X2	95,769
	18 x 2,5	40	95	1	1015518X25	135,582
	20 x 2,5	40	95	1	1015520X25	178,391

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA METRICA ISO SINISTRA A PASSO GROSSO

Hand taps, 3 pcs set, metric coarse ISO thread

10102
HSS-G
DIN 352 ISO 2/6H
M

 Sinistra
 Left hand

 HRC = 63+63,5
 AISI M2

R ≤ 800 N/mm²

 Applicazioni
 Applications

 Acciaio
 Steel

 Metalli
 Metals

 Alluminio
 Aluminum

 Olio
 Oil

	Ø	l	L	pcs	cod.	€ cad/each
M	3 x 0,5	11	40	1	1010203X05	26,246
	4 x 0,7	13	45	1	1010204X07	26,246
	5 x 0,8	14	50	1	1010205X08	27,302
	6 x 1	19	56	1	1010206X1	28,802
	7 x 1	19	56	1	1010207X1	38,527
	8 x 1,25	22	63	1	1010208X125	31,071
	10 x 1,5	24	70	1	1010210X15	39,909
	12 x 1,75	28	75	1	1010212X175	51,187
	14 x 2	30	80	1	1010214X2	64,774
	16 x 2	32	80	1	1010216X2	78,320
	18 x 2,5	34	95	1	1010218X25	134,555
	20 x 2,5	34	95	1	1010220X25	144,386
	22 x 2,5	34	100	1	1010222X25	170,788
	24 x 3	38	110	1	1010224X3	215,991
	27 x 3	38	110	1	1010227X3	277,460
	30 x 3,5	45	125	1	1010230X35	385,414
	33 x 3,5	56	125	1	1010233X35	799,295
	36 x 4	63	150	1	1010236X4	931,595
	39 x 4	63	150	1	1010239X4	1.202,750
	42 x 4,5	63	150	1	1010242X45	1.342,676
	45 x 4,5	70	160	1	1010245X45	1.552,030
	48 x 5	75	180	1	1010248X5	2.219,289
52 x 5	75	180	1	1010252X5	2.347,505	

MASCHI A MANO IN HSS SERIE DI 2 PEZZI,
FILETTATURA METRICA ISO A PASSO FINE
Hand taps, 3 pcs set, metric coarse ISO thread

10105

HSS-G

DIN 2181 ISO 2/6H

MF



HRC = 63÷63,5
AISI M2



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

Ø M84 x 1,5÷110 x 4
A richiesta
On demand



	Ø	l	L	pcs	cod.	€ cad/each	
M	2	x 0,25	8	36	1	1010502x025	42,517
	2,2	x 0,25	9	36	1	10105022x025	42,517
	2,5	x 0,35	9	40	1	10105025x035	40,901
	2,6	x 0,35	9	40	1	10105026x035	40,901
	3	x 0,35	9	40	1	1010503X035	24,041
	3,5	x 0,35	10	45	1	10105035X035	24,041
	4	x 0,35	10	45	1	1010504X035	27,497
	4	x 0,5	10	45	1	1010504X05	19,752
	4,5	x 0,5	12	50	1	10105045x05	40,901
	5	x 0,5	12	50	1	1010505X05	21,018
	5	x 0,75	12	50	1	1010505X075	45,022
	5,5	x 0,5	12	50	1	10105055x05	40,901
	6	x 0,5	14	50	1	1010506X05	40,901
	6	x 0,75	14	50	1	1010506X075	21,995
	7	x 0,5	14	50	1	1010507x05	40,901
	7	x 0,75	14	50	1	1010507X075	26,115
	8	x 0,5	19	50	1	1010508X05	52,519
	8	x 0,75	19	50	1	1010508X075	26,729
	8	x 1	22	56	1	1010508X1	22,986
	9	x 0,5	19	56	1	1010509x05	45,126
	9	x 0,75	19	56	1	1010509X075	37,967
	9	x 1	20	63	1	1010509X1	35,113
	10	x 0,5	20	63	1	1010510x05	45,829
	10	x 0,75	20	63	1	1010510X075	35,464
	10	x 1	20	63	1	1010510X1	30,457
	10	x 1,25	24	70	1	1010510X125	25,099
	11	x 0,75	20	63	1	1010511x075	58,946
	11	x 1	20	63	1	1010511X1	39,282
	11	x 1,25	22	63	1	1010511X125	40,714
	12	x 0,5	22	70	1	1010512x05	58,946
	12	x 0,75	22	70	1	1010512X075	36,180
	12	x 1	22	70	1	1010512X1	36,102
	12	x 1,25	22	70	1	1010512X125	31,797
	12	x 1,5	22	70	1	1010512X15	28,906
	13	x 0,5	22	70	1	1010513x05	90,955
	13	x 0,75	22	70	1	1010513X075	90,955
	13	x 1	22	70	1	1010513X1	62,506
	13	x 1,5	22	70	1	1010513X15	62,506
	14	x 0,5	22	70	1	1010514x05	90,955
	14	x 0,75	22	70	1	1010514X075	44,018
	14	x 1	22	70	1	1010514X1	40,470
	14	x 1,25	22	70	1	1010514X125	40,470
	14	x 1,5	22	70	1	1010514X15	34,409
	15	x 0,75	22	70	1	1010515x075	100,968
	15	x 1	22	70	1	1010515X1	67,694
	15	x 1,5	22	70	1	1010515X15	67,694
	16	x 0,5	22	70	1	1010516X05	100,968
	16	x 0,75	22	70	1	1010516X075	100,968
	16	x 1	22	70	1	1010516X1	45,126
	16	x 1,25	22	70	1	1010516X125	42,439
	16	x 1,5	22	70	1	1010516X15	36,663
	17	x 1	22	70	1	1010517x1	109,287
	17	x 1,5	22	70	1	1010517x15	109,287
	18	x 0,5	22	80	1	1010518x05	109,287
	18	x 0,75	22	80	1	1010518X075	109,287
	18	x 1	22	80	1	1010518X1	66,273
	18	x 1,25	22	80	1	1010518X125	66,273
	18	x 1,5	22	80	1	1010518X15	54,291
	18	x 2	22	80	1	1010518X2	68,893
	19	x 1	22	80	1	1010519x1	137,409
	19	x 1,5	22	80	1	1010519x15	137,409
	20	x 0,5	22	80	1	1010520x05	137,409
	20	x 0,75	22	80	1	1010520X075	137,409
	20	x 1	22	80	1	1010520X1	91,659
	20	x 1,25	22	80	1	1010520X125	83,940
	20	x 1,5	22	80	1	1010520X15	59,936
	20	x 2	22	80	1	1010520X2	73,797

Per filettature in fori ciechi e passanti
in acciaio da costruzione, acciai da bonifica,
materiali metallici in genere sino a
R≤800 N/mm²

*For making threads in blind and through
holes in structural steel, malleable cast iron,
heat-treatable steel R≤800 N/mm².*

Ø	l	L	pcs	cod.	€	Ø	l	L	pcs	cod.	€		
					cad/each						cad/each		
21	x 1	22	80	1	1010521X1	140,956	48	x 3	40	140	1	1010548X3	578,752
21	x 1,5	22	80	1	1010521X15	140,956	50	x 1,5	40	140	1	1010550X15	581,287
22	x 0,5	22	80	1	1010522x05	162,978	50	x 2	40	140	1	1010550X2	637,131
22	x 0,75	22	80	1	1010522x075	140,956	50	x 3	40	140	1	1010550X3	712,020
22	x 1	22	80	1	1010522x1	87,251	52	x 1,5	40	140	1	1010552X15	736,133
22	x 1,25	22	80	1	1010522x125	87,251	52	x 2	40	140	1	1010552X2	736,133
22	x 1,5	22	80	1	1010522X15	87,251	52	x 3	40	140	1	1010552X3	736,133
22	x 2	22	80	1	1010522X2	87,251	54	x 1,5	32	140	1	1010554X15	927,719
23	x 1	22	80	1	1010523x1	190,384	54	x 2	36	140	1	1010554X2	927,719
23	x 1,5	22	80	1	1010523X15	127,200	54	x 3	40	140	1	1010554X3	927,719
24	x 0,5	22	90	1	1010524x05	190,384	54	x 4	50	180	1	1010554X4	927,719
24	x 0,75	22	90	1	1010524x075	190,384	55	x 1,5	32	140	1	1010555X15	1.070,116
24	x 1	22	90	1	1010524X1	105,737	55	x 2	36	140	1	1010555X2	1.070,116
24	x 1,25	22	90	1	1010524X125	94,717	55	x 3	40	140	1	1010555X3	1.070,116
24	x 1,5	22	90	1	1010524X15	90,008	55	x 4	50	180	1	1010555X4	1.070,116
24	x 2	22	90	1	1010524X2	94,252	56	x 1,5	32	140	1	1010556X15	1.141,322
25	x 1	22	90	1	1010525X1	128,687	56	x 2	36	140	1	1010556X2	1.141,322
25	x 1,5	22	90	1	1010525X15	128,687	56	x 3	40	140	1	1010556X3	1.141,322
26	x 1	22	90	1	1010526X1	120,865	56	x 4	50	180	1	1010556X4	1.141,322
26	x 1,5	22	90	1	1010526X15	120,865	58	x 1,5	32	160	1	1010558X15	1.169,591
26	x 2	22	90	1	1010526X2	120,865	58	x 2	36	160	1	1010558X2	1.169,591
27	x 1	22	90	1	1010527X1	167,815	58	x 3	40	160	1	1010558X3	1.169,591
27	x 1,5	22	90	1	1010527X15	116,067	58	x 4	55	200	1	1010558X4	1.169,591
27	x 2	22	90	1	1010527X2	116,067	60	x 1,5	34	160	1	1010560X15	1.227,183
28	x 1	22	90	1	1010528X1	172,052	60	x 2	36	160	1	1010560X2	1.227,183
28	x 1,5	22	90	1	1010528X15	136,940	60	x 3	40	160	1	1010560X3	1.227,183
28	x 2	22	90	1	1010528X2	136,940	60	x 4	55	200	1	1010560X4	1.227,183
29	x 1,5	22	90	1	1010529X15	279,227	62	x 1,5	34	160	1	1010562X15	1.326,658
30	x 1	22	90	1	1010530X1	176,016	62	x 2	36	160	1	1010562X2	1.326,658
30	x 1,5	22	90	1	1010530X15	176,016	62	x 3	45	180	1	1010562X3	1.326,658
30	x 2	22	90	1	1010530X2	176,016	62	x 4	55	220	1	1010562X4	1.326,658
30	x 2,5	56	125	1	1010530X25	176,016	63	x 1,5	32	160	1	1010563X15	1.354,926
30	x 3	56	125	1	1010530X3	176,016	64	x 1,5	34	160	1	1010564X15	1.354,926
32	x 1	22	90	1	1010532x1	370,886	64	x 2	36	160	1	1010564X2	1.354,926
32	x 1,5	22	90	1	1010532X15	190,384	64	x 3	45	180	1	1010564X3	1.354,926
32	x 2	22	90	1	1010532x2	370,886	64	x 4	60	220	1	1010564X4	1.354,926
32	x 3	56	125	1	1010532X3	188,963	65	x 1,5	34	160	1	1010565X15	1.440,787
33	x 1,5	25	100	1	1010533X15	266,528	65	x 2	36	160	1	1010565X2	1.440,787
33	x 2	25	100	1	1010533X2	291,912	65	x 3	45	180	1	1010565X3	1.440,787
33	x 3	56	125	1	1010533X3	324,351	65	x 4	60	220	1	1010565X4	1.440,787
34	x 1	25	100	1	1010534x1	452,674	68	x 1,5	36	160	1	1010568X15	1.498,380
34	x 1,5	25	100	1	1010534X15	300,374	68	x 2	40	160	1	1010568X2	1.498,380
34	x 2	40	125	1	1010534X2	300,374	68	x 3	50	180	1	1010568X3	1.498,380
35	x 1	25	100	1	1010535x1	452,674	68	x 4	60	220	1	1010568X4	1.498,380
35	x 1,5	25	100	1	1010535X15	300,374	70	x 1,5	36	160	1	1010570X15	2.425,042
35	x 2	40	125	1	1010535x2	451,267	70	x 2	40	160	1	1010570X2	2.425,042
36	x 1	25	100	1	1010536x1	475,243	70	x 3	50	200	1	1010570X3	2.782,098
36	x 1,5	25	100	1	1010536X15	317,299	70	x 4	60	240	1	1010570X4	2.782,098
36	x 2	40	125	1	1010536X2	317,299	72	x 1,5	36	160	1	1010572X15	2.425,042
36	x 3	40	125	1	1010536X3	317,299	72	x 2	40	160	1	1010572X2	2.425,042
37	x 1,5	25	100	1	1010537x15	526,710	72	x 3	50	200	1	1010572X3	2.782,098
38	x 1	25	100	1	1010538x1	526,710	72	x 4	60	240	1	1010572X4	2.782,098
38	x 1,5	25	100	1	1010538X15	374,408	74	x 1,5	36	160	1	1010574X15	2.638,655
38	x 2	40	125	1	1010538X2	463,250	74	x 2	40	160	1	1010574X2	2.638,655
38	x 3	40	125	1	1010538X3	463,250	74	x 3	50	200	1	1010574X3	3.138,109
39	x 1,5	25	110	1	1010539X15	374,408	74	x 4	60	240	1	1010574X4	3.138,109
39	x 2	40	125	1	1010539X2	374,408	75	x 1,5	36	160	1	1010575X15	2.710,901
39	x 3	40	125	1	1010539X3	374,408	75	x 2	40	160	1	1010575X2	2.710,901
40	x 1	25	110	1	1010540x1	463,250	75	x 3	50	200	1	1010575X3	3.209,307
40	x 1,5	25	110	1	1010540X15	402,457	75	x 4	60	240	1	1010575X4	3.209,307
40	x 2	40	125	1	1010540X2	383,292	76	x 1,5	36	160	1	1010576X15	2.782,098
40	x 3	40	125	1	1010540X3	383,292	76	x 2	40	160	1	1010576X2	2.782,098
42	x 1	25	110	1	1010542x1	463,250	76	x 3	50	220	1	1010576X3	3.352,761
42	x 1,5	25	110	1	1010542X15	390,908	76	x 4	60	260	1	1010576X4	3.352,761
42	x 2	40	125	1	1010542X2	390,908	78	x 1,5	36	160	1	1010578X15	2.782,098
42	x 3	40	125	1	1010542X3	390,908	78	x 2	40	160	1	1010578X2	2.782,098
44	x 1,5	25	110	1	1010544x15	564,788	78	x 3	55	220	1	1010578X3	3.352,761
44	x 2	40	125	1	1010544x2	564,788	78	x 4	65	260	1	1010578X4	3.352,761
45	x 1	25	110	1	1010545x1	564,788	80	x 1,5	36	160	1	1010580X15	2.995,703
45	x 1,5	25	110	1	1010545X15	516,560	80	x 2	40	160	1	1010580X2	2.995,703
45	x 2	40	125	1	1010545X2	516,560	80	x 3	55	220	1	1010580X3	3.708,771
45	x 3	40	125	1	1010545X3	516,560	80	x 4	65	260	1	1010580X4	3.708,771
46	x 1,5	40	140	1	1010546x15	564,788	82	x 1,5	36	160	1	1010582X15	2.995,703
48	x 1	40	140	1	1010548x1	670,140	82	x 2	40	160	1	1010582X2	2.995,703
48	x 1,5	25	140	1	1010548X15	501,328	82	x 3	55	220	1	1010582X3	3.708,771
48	x 2	40	140	1	1010548X2	578,752	82	x 4	65	260	1	1010582X4	3.708,771

MASCHI A MANO IN HSS SERIE DI 2 PEZZI
PER TUBI DI CONDUZIONE ELETTRICA, FILETTATURA METRICA ISO A PASSO FINE
2 pcs hand taps for cable connection

10105

HSS-G

DIN 2181 ISO 2/6H

MF



HRC = 63±63,5
AISI M2



Confezione
Packaging



	Ø	l	L	pcs	cod.	€ cad/each
M	12 x 1,5	22	70	1	1010512x15	28,906
	16 x 1,5	22	70	1	1010516x15	36,663
	20 x 1,5	22	80	1	1010520x15	59,936
	25 x 1,5	22	90	1	1010525x15	128,687
	32 x 1,5	32	90	1	1010532x15	190,384
	40 x 1,5	25	110	1	1010540x15	402,457
	50 x 1,5	40	140	1	1010550x15	581,287
	63 x 1,5	32	160	1	1010563x15	1.354,926

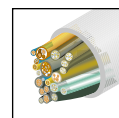
Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Per tubi di
conduzione elettrica
For electrical
conduction tubes

SINISTRI
LEFT HAND

MASCHI A MANO IN HSS SERIE DI 2 PEZZI,
FILETTATURA METRICA SINISTRA A PASSO FINE
Hand taps, metric fine ISO thread, left hand

10107

HSS-G

DIN 2181 ISO 2/6H

MF

Sinistra
Left hand



HRC = 63±63,5
AISI M2



R ≤ 900 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	l	L	pcs	cod.	€ cad/each
M	6 x 0,75	14	50	1	1010706X075	34,650
	8 x 0,75	19	50	1	1010708X075	39,943
	8 x 1	22	56	1	1010708X1	34,650
	10 x 1	20	63	1	1010710X1	37,059
	10 x 1,25	24	70	1	1010710X125	45,235
	12 x 1	22	70	1	1010712X1	45,808
	12 x 1,25	22	70	1	1010712X125	55,834
	12 x 1,5	22	70	1	1010712X15	44,279
	14 x 1,25	22	70	1	1010714X125	60,653
	14 x 1,5	22	70	1	1010714X15	52,966
	16 x 1	22	70	1	1010716X1	68,254
	16 x 1,5	22	70	1	1010716X15	65,152
	18 x 1,5	22	80	1	1010718X15	76,014
	20 x 1,5	22	80	1	1010720X15	84,006
	22 x 1,5	22	80	1	1010722X15	108,022
	24 x 1,5	22	90	1	1010724X15	146,667
	24 x 2	22	90	1	1010724X2	228,664
	30 x 1,5	22	90	1	1010730X15	489,766
	30 x 2	22	90	1	1010730X2	489,766
	38 x 1,5	25	100	1	1010738X15	781,033

Per filettature in fori ciechi e passanti in acciaio da costruzione, acciai da bonifica, materiali metallici in genere sino a R≤800 N/mm².

For making threads in blind and through holes in structural steel, malleable cast iron, heat-treatable steel R≤800 N/mm².

MASCHI A MANO IN HSS SERIE DI 2 PEZZI,
FILETTATURA GAS CILINDRICA ISO 228 PER TUBI
Hand taps, 2 pcs set, Wh pipe thread ISO 228

10115

HSS-G

DIN 5157

BSP (GAS)



HRC = 63+63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	l	L	pcs	cod.	€ cad/each
G	1/8 x 28	20	63	1	101151/8	37,289
	1/4 x 19	22	70	1	101151/4	49,140
	3/8 x 19	22	70	1	101153/8	61,710
	1/2 x 14	22	80	1	101151/2	88,660
	5/8 x 14	22	80	1	101155/8	106,914
	3/4 x 14	22	90	1	101153/4	131,191
	7/8 x 14	22	90	1	101157/8	170,631
	1" x 11	25	100	1	101151	207,308
	1.1/8 x 11	40	125	1	101151.1/8	339,867
	1.1/4 x 11	40	125	1	101151.1/4	339,867
	1.3/8 x 11	40	140	1	101151.3/8	455,505
	1.1/2 x 11	40	140	1	101151.1/2	455,505
	1.5/8 x 11	40	140	1	101151.5/8	791,133
	1.3/4 x 11	40	140	1	101151.3/4	664,206
	2" x 11	40	160	1	101152	664,206
	2.1/4 x 11	40	160	1	101152.1/4	1.541,365
	2.1/2 x 11	40	160	1	101152.1/2	1.624,562
	2.3/4 x 11	40	160	1	101152.3/4	2.166,091
	3" x 11	40	160	1	101153	2.473,520
	3.1/2 x 11	45	180	1	101153.1/2	3.500,150
	4" x 11	45	180	1	101154	4.000,778

MASCHI A MANO IN HSS SERIE DI 2 PEZZI,
FILETTATURA GAS SINISTRA CILINDRICA ISO 228 PER TUBI
Hand taps, 2 pcs set, Wh pipe thread ISO 228

10117

HSS-G

DIN 5157

BSP (GAS)

Sinistra
Left hand



HRC = 63+63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	l	L	pcs	cod.	€ cad/each
G	1/8 x 28	20	63	1	101171/8	62,206
	1/4 x 19	22	70	1	101171/4	74,748
	3/8 x 19	22	70	1	101173/8	93,980
	1/2 x 14	22	80	1	101171/2	153,708
	5/8 x 14	22	80	1	101175/8	227,257
	3/4 x 14	22	90	1	101173/4	241,142
	1" x 11	25	100	1	101171	472,427
	1.1/8 x 11	40	125	1	101171.1/8	627,621
	1.1/4 x 11	40	125	1	101171.1/4	627,621
	1.3/8 x 11	40	140	1	101171.3/8	841,121
	1.1/2 x 11	40	140	1	101171.1/2	841,121
	1.3/4 x 11	40	140	1	101171.3/4	1.734,813
	2" x 11	40	160	1	101172	1.734,813

SINISTRI
LEFT HAND

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI, FILETTATURA GAS CONICA BSPT

BSPT taped thread taps

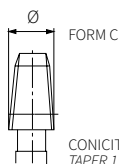
10139

HSS-G

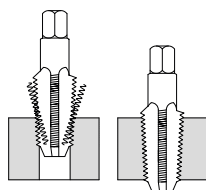
BSPT - Conici



HRC = 63÷63,5
AISI M2



	Ø	l	L	pcs	cod.	€ cad/each
Rc	1/8 x 28	15	59	1	101391/8	39,555
	1/4 x 19	19	67	1	101391/4	45,825
	3/8 x 19	21	75	1	101393/8	56,665
	1/2 x 14	26	87	1	101391/2	75,506
	3/4 x 14	28	96	1	101393/4	118,073
	1" x 11	33	109	1	101391	169,019
	1.1/4 x 11	36	119	1	101391.1/4	291,281
	1.1/2 x 11	37	125	1	101391.1/2	378,788
	2" x 11	41	140	1	101392	673,659



R ≤ 900 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA WHITWORTH A PASSO FINE BS 84

Hand taps, 2 pcs set, british standard fine thread

10112

HSS-G ≈ DIN 2181

BSF



HRC = 63÷63,5
AISI M2



	Ø	l	L	pcs	cod.	€ cad/each
BSF	3/16 x 32	14	50	1	101123/16	23,103
	1/4 x 26	18	50	1	101121/4	25,385
	5/16 x 22	22	56	1	101125/16	27,707
	3/8 x 20	22	63	1	101123/8	32,295
	7/16 x 18	22	63	1	101127/16	36,923
	1/2 x 16	24	75	1	101121/2	43,887
	9/16 x 16	28	80	1	101129/16	60,002
	5/8 x 14	28	80	1	101125/8	60,002
	3/4 x 12	32	95	1	101123/4	80,759
	7/8 x 11	36	100	1	101127/8	104,358
	1" x 10	40	110	1	101121	133,968

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

MASCHI A MANO IN HSS SERIE DI 3 PEZZI,
FILETTATURA WHITWORTH A PASSO GROSSO BS 84
Hand taps, 3 pcs set, british standard thread

TOTTO

HSS-G ≈ **DIN 352**

BSW



HRC = 63÷63,5
AISI M2



	Ø	l	L	pcs	cod.	€ cad/each
BSW	1/16 x 60	10	36	1	101101/16	63,248
	3/32 x 48	10	36	1	101103/32	63,248
	1/8 x 40	12	40	1	101101/8	29,676
	5/32 x 32	14	45	1	101105/32	29,676
	3/16 x 24	18	50	1	101103/16	32,856
	7/32 x 24	18	50	1	101107/32	35,360
	1/4 x 20	19	50	1	101101/4	35,360
	5/16 x 18	22	63	1	101105/16	37,369
	3/8 x 16	24	70	1	101103/8	43,314
	7/16 x 14	24	70	1	101107/16	53,379
	1/2 x 12	29	75	1	101101/2	55,582
	9/16 x 12	30	80	1	101109/16	70,797
	5/8 x 11	32	80	1	101105/8	84,619
	11/16 x 11	32	80	1	101101/16	142,430
	3/4 x 10	40	95	1	101103/4	142,430
	7/8 x 9	40	100	1	101107/8	172,052
	1" x 8	50	110	1	101101	193,200
	1.1/8 x 7	56	132	1	101101.1/8	355,370
	1.1/4 x 7	56	132	1	101101.1/4	355,370
	1.3/8 x 6	63	150	1	101101.3/8	524,607
	1.1/2 x 6	63	150	1	101101.1/2	593,694
	1.5/8 x 5	70	160	1	101101.5/8	1.009,718
	1.3/4 x 5	70	160	1	101101.3/4	1.160,611
	1.7/8 x 4.1/2	80	190	1	101101.7/8	1.604,822
	2" x 4.1/2	80	190	1	101102	1.604,822

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

MASCHI A MANO IN HSS SERIE DI 3 PEZZI,
FILETTATURA SINISTRA WHITWORTH A PASSO GROSSO BS 84
Hand taps, 3 pcs set, british standard thread, left hand

TOTTI

HSS-G ≈ **DIN 352**

BSW

Sinistra
Left hand



HRC = 63÷63,5
AISI M2



	Ø	l	L	pcs	cod.	€ cad/each
BSW	1/8 x 40	12	40	1	101111/8	62,802
	5/32 x 32	14	45	1	101115/32	62,802
	3/16 x 24	18	50	1	101113/16	62,802
	1/4 x 20	22	56	1	101111/4	62,802
	5/16 x 18	25	63	1	101115/16	65,619
	3/8 x 16	28	70	1	101113/8	74,232
	7/16 x 14	30	75	1	101117/16	91,294
	1/2 x 12	32	80	1	101111/2	107,498
	9/16 x 12	32	80	1	101119/16	142,409
	5/8 x 11	36	90	1	101115/8	159,154
	3/4 x 10	40	105	1	101113/4	213,601
	7/8 x 9	45	110	1	101117/8	262,475
	1" x 8	50	110	1	101111	316,922

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

SINISTRI
LEFT HAND

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI,
FILETTATURA AMERICANA NPT
NPT taper thread taps

10134

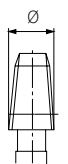
HSS-G

ANSI B 2.1

NPT - Conici



HRC = 63÷63,5
AISI M2

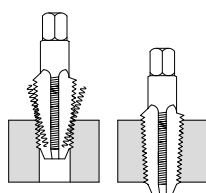


FORM C

CONICITÀ 1:16
TAPER 1:16



	Ø	l	L	pcs	cod.	€ cad/each
NPT	1/16 x 27	19	54	1	101341/16	34,864
	1/8 x 27	19	54	1	101341/8	39,555
	1/4 x 18	27	62	1	101341/4	45,825
	3/8 x 18	27	65	1	101343/8	56,665
	1/2 x 14	35	79	1	101341/2	85,801
	3/4 x 14	35	83	1	101343/4	141,445
	1" x 11,5	44	95	1	101341	221,762
	1.1/4 x 11,5	44	102	1	101341.1/4	353,607
	1.1/2 x 11,5	44	108	1	101341.1/2	460,290
	2" x 11,5	44	114	1	101342	825,890



R ≤ 900 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA AMERICANA UNC A PASSO GROSSO

Hand taps, 3 pcs set, Unified Coarse Thread (UNC)

10120

HSS-G

DIN 352

UNC



HRC = 63±63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	l	L	pcs	cod.	€ cad/each	
N°	1 x 64	10	32	1	10120N01	40,954	
	2 x 56	11	36	1	10120N02	40,954	
	3 x 48	11	36	1	10120N03	34,629	
	4 x 40	12	40	1	10120N04	31,507	
	5 x 40	12	40	1	10120N05	31,507	
	6 x 32	14	45	1	10120N06	30,380	
	8 x 32	14	45	1	10120N08	30,380	
	10 x 24	16	50	1	10120N10	30,380	
	12 x 24	18	50	1	10120N12	30,380	
	UNC	1/4 x 20	19	50	1	101201/4	32,598
		5/16 x 18	22	63	1	101205/16	32,598
		3/8 x 16	24	70	1	101203/8	39,898
7/16 x 14		24	70	1	101207/16	44,591	
1/2 x 13		29	75	1	101201/2	61,019	
9/16 x 12		30	80	1	101209/16	71,076	
5/8 x 11		32	80	1	101205/8	76,450	
3/4 x 10		40	95	1	101203/4	119,937	
7/8 x 12		40	100	1	101207/8	151,925	
1" x 8		50	110	1	101201	199,485	
1.1/8 x 7		56	132	1	101201.1/8	314,763	
1.1/4 x 7		56	132	1	101201.1/4	432,800	
1.3/8 x 6		63	150	1	101201.3/8	713,286	
1.1/2 x 6		63	150	1	101201.1/2	713,286	
1.5/8 x 5		70	160	1	101201.5/8	1.081,348	
1.3/4 x 5		70	160	1	101201.3/4	1.081,348	
1.7/8 x 4,5		80	190	1	101201.7/8	1.510,335	
2" x 4,5		80	190	1	101202	1.510,335	

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA AMERICANA UNC SINISTRA

Unified Coarse Thread

10122

HSS-G

DIN 352

UNC

Sinistra
Left hand



HRC = 63±63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	l	L	pcs	cod.	€ cad/each
N°	6 x 32	14	45	1	10122NR06	90,509
	8 x 32	14	45	1	10122NR08	90,509
	10 x 24	16	50	1	10122NR10	90,509
	12 x 24	18	50	1	10122NR12	90,509
UNC	1/4 x 20	19	50	1	101221/4	57,330
	5/16 x 18	22	63	1	101225/16	60,366
	3/8 x 16	24	70	1	101223/8	70,362
	7/16 x 14	24	70	1	101227/16	85,468
	1/2 x 13	29	75	1	101221/2	102,569
	9/16 x 12	30	80	1	101229/16	133,754
	5/8 x 11	32	80	1	101225/8	150,788
	3/4 x 10	40	95	1	101223/4	201,080
	7/8 x 9	40	100	1	101227/8	251,361
	1" x 8	50	110	1	101221	301,655

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA AMERICANA UNF A PASSO FINE

Hand taps, 2 pcs set, unified fine thread (UNF)

10125

HSS-G ≈ **DIN 2181**

UNF



HRC = 63÷63,5
AISI M2



	Ø	l	L	pcs	cod.	€ cad/each
N°	0 x 80	9	32	1	10125N00	45,313
	1 x 72	9	32	1	10125N01	42,044
	2 x 64	10	32	1	10125N02	42,044
	3 x 56	10	32	1	10125N03	36,765
	4 x 48	11	36	1	10125N04	35,461
	5 x 44	11	36	1	10125N05	34,159
	6 x 40	12	40	1	10125N06	27,342
	8 x 36	12	40	1	10125N08	27,342
	10 x 32	14	45	1	10125N10	27,342
UNF	12 x 28	14	50	1	10125N12	27,342
	1/4 x 28	18	50	1	101251/4	29,418
	5/16 x 24	22	56	1	101255/16	29,418
	3/8 x 24	22	63	1	101253/8	31,882
	7/16 x 20	22	63	1	101257/16	37,808
	1/2 x 20	24	75	1	101251/2	44,721
	9/16 x 18	28	80	1	101259/16	62,182
	5/8 x 18	28	80	1	101255/8	68,716
	3/4 x 16	32	95	1	101253/4	85,860
	7/8 x 14	36	100	1	101257/8	109,154
	1" x 12	40	110	1	10125112	138,337
	* 1" x 14	40	110	1	10125114	229,724
	1.1/8 x 12	50	110	1	101251.1/8	312,216
	1.1/4 x 12	56	132	1	101251.1/4	389,641
	1.3/8 x 12	56	132	1	101251.3/8	640,944
	1.1/2 x 12	63	150	1	101251.1/2	640,944

* Filettatura UNS
UNS thread

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

SINISTRA
LEFT HAND

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA AMERICANA UNF SINISTRA

Hand taps, 2 pcs set, unified fine thread (UNF), left hand

10127

HSS-G ≈ **DIN 2181**

UNF

Sinistra
Left hand



HRC = 63÷63,5
AISI M2



	Ø	l	L	pcs	cod.	€ cad/each
N°	10 x 32	14	45	1	10127NR10	67,929
UNF	1/4 x 28	18	50	1	101271/4	42,999
	5/16 x 24	22	56	1	101275/16	45,256
	3/8 x 24	22	63	1	101273/8	52,818
	7/16 x 20	22	63	1	101277/16	64,148
	1/2 x 20	24	75	1	101271/2	76,926
	9/16 x 18	28	80	1	101279/16	100,316
	5/8 x 18	28	80	1	101275/8	113,173
	3/4 x 16	32	95	1	101273/4	150,891
	7/8 x 14	36	100	1	101277/8	188,584
	1" x 12	40	110	1	101271	226,278

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

MASCHI A MANO IN HSS SERIE DI 2 PEZZI
PER TUBI DI CONDUZIONE ELETTRICA
2 pcs hand taps for cable connection

10136

HSS-G

DIN 40432

Pg



HRC = 63±63,5
AISI M2



	Ø	l	L	pcs	cod.	€ cad/each
Pg	7 x 20	22	70	1	1013607	68,621
	9 x 18	22	70	1	1013609	89,508
	11 x 18	22	80	1	1013611	149,484
	13,5 x 18	22	80	1	10136135	169,223
	16 x 18	22	80	1	1013616	208,612
	21 x 16	22	90	1	1013621	307,429
	29 x 16	25	100	1	1013629	462,557
	36 x 16	40	140	1	1013636	717,102
	42 x 16	40	140	1	1013642	1.095,210
	48 x 16	40	160	1	1013648	1.262,138

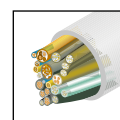
Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Per tubi di
conduzione elettrica
*For electrical
conduction tubes*

MASCHI A MANO AL CV SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO

Standard 3 pcs hand taps, metric coarse pitch

10001

C.V.

UNI 4535 ≈ DIN 352

M



HRC = 62±63



Confezione
Packaging



R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



Art. 10002 Self
Disponibile su richiesta
On demand

	Ø	l	L	pcs	cod.	€ cad/each
M	2 x 0,4	11	36	1	1000102X04	7,625
	2,5 x 0,45	12	40	1	10001025X045	9,065
	3 x 0,5	12	40	1	1000103X05	5,117
	3 x 0,6	12	43	1	1000103X06	7,079
	3,5 x 0,6	14	45	1	10001035X06	7,079
	4 x 0,7	14	45	1	1000104X07	5,117
	4 x 0,75	14	48	1	1000104X075	7,581
	4,5 x 0,75	16	48	1	10001045X075	7,581
	5 x 0,8	16	48	1	1000105X08	5,394
	5 x 0,9	16	50	1	1000105X09	6,064
	6 x 1	18	50	1	1000106X1	5,394
	7 x 1	18	50	1	1000107X1	7,102
	8 x 1,25	22	56	1	1000108X125	6,822
	9 x 1,25	22	63	1	1000109X125	9,564
	10 x 1,5	25	70	1	1000110X15	9,097
	11 x 1,5	25	70	1	1000111X15	12,072
	12 x 1,75	30	75	1	1000112X175	11,448
	14 x 2	32	80	1	1000114X2	14,828
	16 x 2	32	80	1	1000116X2	18,137
18 x 2,5	40	95	1	1000118X25	23,276	
20 x 2,5	40	95	1	1000120X25	28,694	
22 x 2,5	40	100	1	1000122X25	34,826	
24 x 3	50	110	1	1000124X3	41,359	
27 x 3	50	110	1	1000127X3	93,204	
30 x 3,5	56	132	1	1000130X35	124,195	
33 x 3,5	60	132	1	1000133X35	147,105	
36 x 4	60	132	1	1000136X4	162,778	

C.V.

MASCHIO FINITORE
bottoming tap

M

Maschio a mano finitore
Bottoming hand tap

HSS-G
DIN 352 III



	Ø	l	L	pcs	cod.	€ cad/each
M	2 x 0,4	11	36	1	1000102X043	3,420
	3 x 0,5	12	40	1	1000103X053	2,302
	4 x 0,7	14	45	1	1000104X073	2,302
	5 x 0,8	16	48	1	1000105X083	2,411
	6 x 1	18	50	1	1000106X13	2,411
	8 x 1,25	22	56	1	1000108X1253	3,052
	10 x 1,5	25	70	1	1000110X153	4,088
	12 x 1,75	30	75	1	1000112X1753	5,123
14 x 2	32	80	1	1000114X23	6,650	
16 x 2	32	80	1	1000116X23	8,134	

Per filettare fori passanti e ciechi in ferro,
acciaio dolce ed a bassa resistenza sino
R≤600 N/mm²

For making thread in iron, steel up to
R≤600 N/mm²


MASCHI A MACCHINA AL CV E A MANO PER FORI PASSANTI,
SPECIALI PER DADI, FILETTATURA METRICA
Standard 3 pcs hand taps, metric coarse pitch

10030

C.V. ≈ DIN 357

M



	Ø	l	L	 pcs	cod.	€ cad/each
M	3 x 0,5	18	75	10	1003003X05	5,019
	4 x 0,7	23	90	10	1003004X07	5,085
	5 x 0,8	32	100	10	1003005X08	5,881
	6 x 1	40	110	10	1003006X1	6,259
	8 x 1,25	45	132	5	1003008X125	7,745
	10 x 1,5	55	150	5	1003010X15	11,369
	12 x 1,75	55	180	5	1003012X175	16,610

R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



Alluminio
Aluminum



Metalli
Metals



Olio
Oil

MASCHI A MANO AL CV IN SERIE DI 2 PEZZI,
FILETTATURA METRICA PASSO GROSSO E FINE
Two pieces hand taps, coarse and fine pitch

10003

C.V.

UNI 4535 ≈ DIN 2181

M - MF



HRC = 62±63



R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



Alluminio
Aluminum



Metalli
Metals



Olio
Oil

	Ø	l	L	pcs	cod.	€ cad/each
M	2 x 0,4	11	36	1	1000302X04	5,930
	3 x 0,5	12	40	1	1000303X05	4,091
	4 x 0,7	14	45	1	1000304X07	4,091
	5 x 0,8	16	48	1	1000305X08	4,270
	6 x 0,75	18	50	1	1000306X075	4,270
	6 x 1	18	50	1	1000306X1	4,270
	7 x 0,75	18	50	1	1000307X075	5,474
	7 x 1	18	50	1	1000307X1	5,474
	8 x 0,75	22	56	1	1000308X075	6,082
	8 x 1	22	56	1	1000308X1	5,474
	8 x 1,25	22	56	1	1000308X125	5,474
	9 x 0,75	22	63	1	1000309X075	7,223
	9 x 1	22	63	1	1000309X1	7,223
	9 x 1,25	22	63	1	1000309X125	7,223
	10 x 0,75	25	70	1	1000310X075	7,223
	10 x 1	25	70	1	1000310X1	7,223
	10 x 1,25	25	70	1	1000310X125	7,223
	10 x 1,5	25	70	1	1000310X15	7,223
	11 x 0,75	25	70	1	1000311X075	9,676
	11 x 1	25	70	1	1000311X1	9,676
	11 x 1,25	25	70	1	1000311X125	9,676
	11 x 1,5	25	70	1	1000311X15	9,676
	12 x 0,75	30	75	1	1000312X075	9,364
	12 x 1	30	75	1	1000312X1	9,364
	12 x 1,25	30	75	1	1000312X125	9,364
	12 x 1,5	30	75	1	1000312X15	9,364
	12 x 1,75	30	75	1	1000312X175	9,364
	14 x 1	32	80	1	1000314X1	11,638
	14 x 1,25	32	80	1	1000314X125	11,638
	14 x 1,5	32	80	1	1000314X15	11,638
	14 x 2	32	80	1	1000314X2	11,638
	16 x 1	32	80	1	1000316X1	13,936
16 x 1,5	32	80	1	1000316X15	13,936	
16 x 2	32	80	1	1000316X2	13,936	
18 x 1,5	40	95	1	1000318X15	16,845	
18 x 2	40	95	1	1000318X2	22,139	
18 x 2,5	40	95	1	1000318X25	22,139	
20 x 1,5	40	95	1	1000320X15	25,463	
20 x 2	40	95	1	1000320X2	30,445	
20 x 2,5	40	95	1	1000320X25	30,445	
22 x 1,5	40	100	1	1000322X15	30,445	
22 x 2	40	100	1	1000322X2	36,442	
22 x 2,5	40	100	1	1000322X25	36,442	
24 x 1,5	50	110	1	1000324X15	36,442	
24 x 2	50	110	1	1000324X2	36,442	
24 x 3	50	110	1	1000324X3	36,442	
27 x 1,5	50	110	1	1000327X15	70,409	
27 x 2	50	110	1	1000327X2	70,409	
27 x 3	50	110	1	1000327X3	70,409	
30 x 1,5	56	132	1	1000330X15	100,832	
30 x 2	56	132	1	1000330X2	100,832	

C.V.

MASCHIO FINITORE
 bottoming tap

MF

 Maschio a mano finitore
 Bottoming hand tap

 HSS-G
 DIN 352 III


	Ø		l	L	pcs	cod.	€ cad/each	
M	6	x	0,75	18	50	1	1000306X0753	2,849
	7	x	0,75	18	50	1	1000307X0753	3,571
	8	x	0,75	22	56	1	1000308X0753	3,571
	8	x	1	22	56	1	1000308X13	3,571
	9	x	0,75	22	63	1	1000309X0753	4,701
	9	x	1	22	63	1	1000309X13	4,701
	10	x	0,75	25	70	1	1000310X0753	4,701
	10	x	1	25	70	1	1000310X13	4,701
	10	x	1,25	25	70	1	1000310X1253	4,701
	11	x	0,75	25	70	1	1000311X0753	6,172
	11	x	1	25	70	1	1000311X13	6,172
	11	x	1,25	25	70	1	1000311X1253	6,172
	12	x	0,75	30	75	1	1000312X0753	6,158
	12	x	1	30	75	1	1000312X13	6,158
	12	x	1,25	30	75	1	1000312X1253	6,158
	12	x	1,5	30	75	1	1000312X153	6,158
	14	x	1	32	80	1	1000314X13	7,712
	14	x	1,25	32	80	1	1000314X1253	7,712
	14	x	1,5	32	80	1	1000314X153	7,712
	16	x	1	32	80	1	1000316X13	9,225
	16	x	1,5	32	80	1	1000316X153	9,225
	18	x	1,5	40	95	1	1000318X153	11,322

MASCHI A MANO AL CV SERIE DI 2 PEZZI,
FILETTATURA GAS CILINDRICA ISO 228 PER TUBI
Hand taps, 2 pcs set, Wh pipe thread ISO 228

10015

C.V.

UNI 4535 ≈ DIN 5157

BSP (GAS)

R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



	Ø		l	L	pcs	cod.	€ cad/each
G	1/8 x 28		18	65	1	100151/8	8,064
	1/4 x 19		24	70	1	100151/4	10,653
	3/8 x 19		25	75	1	100153/8	13,303
	1/2 x 14		31	80	1	100151/2	20,264
	3/4 x 14		33	90	1	100153/4	34,917
	1" x 11		39	100	1	100151	58,400
	1.1/4 x 11		32	125	1	100151.1/4	114,575
	1.1/2 x 11		32	140	1	100151.1/2	194,254
	2" x 11		32	140	1	100152	411,288

MASCHI CONICI AL CV PER TUBI,
FILETTATURA GAS CONICA BSPT (CON. 1:16)
BSPT taper thread (1:16 taper)

10017

C.V.

UNI 6125

BSPT - Conici

R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



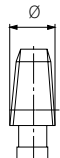
Metalli
Metals



Alluminio
Aluminum



Olio
Oil



CONICITÀ 1:16
TAPER 1:16

	Ø		l	L	pcs	cod.	€ cad/each
G	1/8 x 28		15	59	1	100171/8	10,824
	1/4 x 19		19	67	1	100171/4	16,264
	3/8 x 19		21	75	1	100173/8	19,240
	1/2 x 14		26	87	1	100171/2	23,399
	3/4 x 14		28	96	1	100173/4	68,000
	1" x 11		33	109	1	100171	98,455
	1.1/4 x 11		36	119	1	100171.1/4	151,921
	1.1/2 x 11		37	125	1	100171.1/2	221,849
	2" x 11		41	140	1	100172	332,781

MASCHI A MANO AL CV SERIE DI 2 PEZZI,
FILETTATURA WHITWORTH A PASSO FINE
2 pcs hand taps, british standard fine

10012

C.V.

UNI 2709 ≈ DIN 2181

BSF

R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



	Ø		l	L	pcs	cod.	€ cad/each
BSF	3/16 x 32		16	48	1	100123/16	5,413
	1/4 x 26		18	50	1	100121/4	5,834
	5/16 x 22		22	56	1	100125/16	6,230
	3/8 x 20		25	70	1	100123/8	7,072
	7/16 x 18		25	70	1	100127/16	8,312
	1/2 x 16		30	75	1	100121/2	10,305
	9/16 x 16		32	80	1	100129/16	11,643
	5/8 x 14		32	80	1	100125/8	13,563
	3/4 x 12		40	95	1	100123/4	18,456
	7/8 x 11		40	100	1	100127/8	22,740
	1" x 10		50	110	1	100121	36,132

MASCHI A MANO AL CV SERIE DI 3 PEZZI,
FILETTATURA WHITWORTH PASSO GROSSO
3 pcs hand taps, Whitworth coarse thread

10010

C.V.

UNI 2709 ≈ DIN 352

BSW



R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø		l	L	pcs	cod.	€ cad/each
BSW	1/8	x 40	12	40	1	100101/8	6,774
	5/32	x 32	12	45	1	100105/32	6,774
	3/16	x 24	16	48	1	100103/16	6,774
	1/4	x 20	18	50	1	100101/4	7,655
	5/16	x 18	22	56	1	100105/16	8,014
	3/8	x 16	25	70	1	100103/8	9,688
	7/16	x 14	25	70	1	100107/16	11,395
	1/2	x 12	30	75	1	100101/2	14,059
	9/16	x 12	32	80	1	100109/16	15,793
	5/8	x 11	32	80	1	100105/8	18,418
	3/4	x 10	40	95	1	100103/4	25,120
	7/8	x 9	40	100	1	100107/8	34,373
	1"	x 8	50	110	1	100101	49,355
	1.1/8	x 7	56	125	1	100101.1/8	108,083
	1.1/4	x 7	56	125	1	100101.1/4	114,734
	1.3/8	x 6	63	150	1	100101.3/8	156,748
	1.1/2	x 6	63	150	1	100101.1/2	265,266
	1.3/4	x 5	70	160	1	100101.3/4	356,367
	2"	x 4.5	80	190	1	100102	531,868

MASCHI CONICI AL CV PER TUBI,
FILETTATURA CONICA AMERICANA NPT
NPT taper thread /Tarauds conique NPT

10032

C.V.

ANSI B2.1

NPT - Conici



CONICITÀ 1:16
TAPER 1:16



R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø		l	L	pcs	cod.	€ cad/each
NPT	1/8	x 27	19	54	1	100321/8	10,824
	1/4	x 18	27	62	1	100321/4	16,264
	3/8	x 18	27	65	1	100323/8	19,240
	1/2	x 14	35	79	1	100321/2	23,399
	3/4	x 14	35	83	1	100323/4	68,000
	1"	x 11,5	44	95	1	100321	98,455
	1.1/4	x 11,5	44	102	1	100321.1/4	151,921
	1.1/2	x 11,5	44	108	1	100321.1/2	221,849
	2"	x 11,5	44	114	1	100322	332,781

MASCHI A MANO AL CV SERIE 3 PEZZI,
FILETTATURA AMERICANA A PASSO GROSSO UNC
3 pcs hand taps, UNC coarse pitch

10020

C.V.

ANSI B1.1

UNC



	Ø		l	L	pcs	cod.	€ cad/each	
N°	5	x	40	18	50	1	10020N05	11,482
	6	x	32	18	50	1	10020N06	11,482
	8	x	32	18	50	1	10020N08	11,482
	10	x	24	30	70	1	10020N10	11,482
UNC	12	x	24	30	70	1	10020N12	11,482
	1/4	x	20	30	70	1	100201/4	11,482
	5/16	x	18	30	70	1	100205/16	13,006
	3/8	x	16	35	75	1	100203/8	14,295
	7/16	x	14	40	80	1	100207/16	18,505
	1/2	x	13	45	85	1	100201/2	24,079
	9/16	x	12	45	90	1	100209/16	29,221
	5/8	x	11	47	100	1	100205/8	33,914
	3/4	x	10	50	110	1	100203/4	46,139
	7/8	x	9	60	120	1	100207/8	55,445
	1"	x	8	60	130	1	100201	74,903
	1.1/8	x	7	60	130	1	100201.1/8	128,866
1.1/4	x	7	60	130	1	100201.1/4	159,424	
1.3/8	x	6	65	150	1	100201.3/8	223,734	
1.1/2	x	6	65	150	1	100201.1/2	318,849	

R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

MASCHI A MANO AL CV SERIE DI 2 PEZZI,
FILETTATURA AMERICANA A PASSO FINE UNF
2 pcs hand taps, UNF fine pitch


10025

C.V.

ANSI B1.1

UNF



	Ø		l	L	 pcs	cod.	€ cad/each	
N°	5	x	44	11	36	1	10025N05	7,347
	6	x	40	12	40	1	10025N06	7,347
	8	x	36	12	40	1	10025N08	7,347
	10	x	32	14	45	1	10025N10	7,347
	12	x	28	14	50	1	10025N12	7,347
UNF	1/4	x	28	30	70	1	100251/4	7,347
	5/16	x	24	30	70	1	100255/16	8,718
	3/8	x	24	35	75	1	100253/8	9,476
	7/16	x	20	40	80	1	100257/16	12,423
	1/2	x	20	45	85	1	100251/2	16,090
	9/16	x	18	45	90	1	100259/16	19,471
	5/8	x	18	47	100	1	100255/8	22,617
	3/4	x	16	50	110	1	100253/4	30,805
	7/8	x	14	60	120	1	100257/8	42,657
	1"	x	12	60	130	1	100251	58,702
	1.1/8	x	12	60	130	1	100251.1/8	99,771
	1.1/4	x	12	60	130	1	100251.1/4	112,246
1.3/8	x	12	65	150	1	100251.3/8	147,373	
1.1/2	x	12	65	150	1	100251.1/2	214,358	

R ≤ 600 N/mm²

Applicazioni
Applications



Leghe leggere
Light alloys



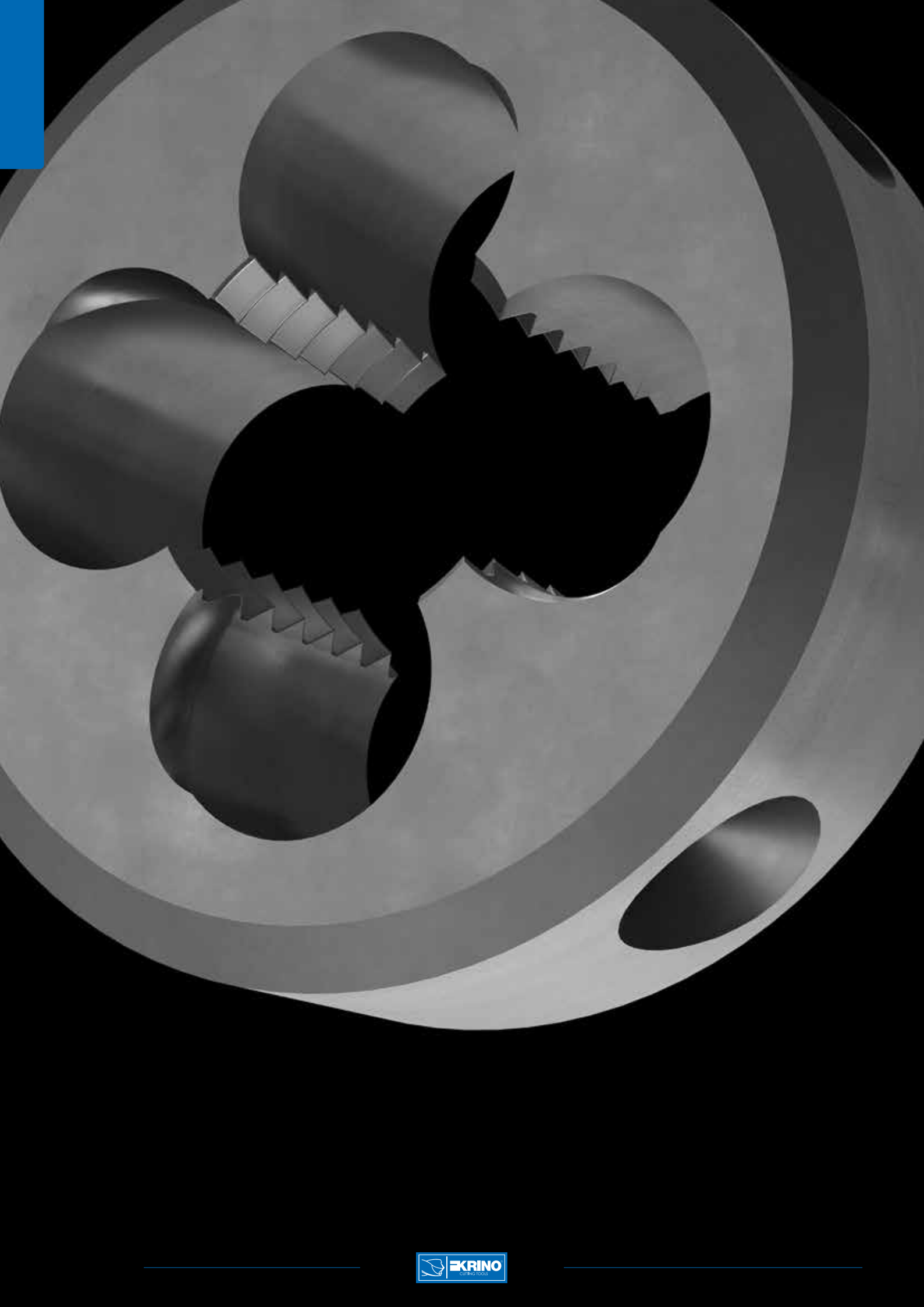
Metalli
Metals



Alluminio
Aluminum



Olio
Oil












UTENSILI A FILETTARE: FILIERE

THREADING TOOLS: ROUND DIES

VISIONE D'INSIEME: FILIERE

Overview: round dies

MATERIALE MATERIAL	RIVESTIMENTO COATING	FILETTATURA THREAD	SPECIALITÀ FEATURES	DIAMETRO INTERNO INTERNAL DIAMETER	NORMA STANDARD	IMMAGINE IMAGE	INOX STAINLESS STEEL	ACCIAIO <1400 N/mm STEEL <1400 N/mm	ACCIAIO <900 N/mm STEEL <900 N/mm	ACCIAIO <700 N/mm ACCIAIO <700 N/mm	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM/ALLOYS	R _s N/mm ²	COD.		
HSS Co	-	M	-	3÷30	DIN 223		✓	✓	✓	✓	✓	✓	1200	12144	334	
	-	MF	-	6÷24	DIN 223		✓	✓	✓	✓	✓	✓	1200	12146	334	
	-	BSP	-	1/8÷1"	DIN 5158		✓	✓	✓	✓	✓	✓	1200	12148	335	
HSS	TiN	M	-	3÷20	DIN 223		✓		✓	✓	✓	✓	950	12165	336	
	-		-	1÷72	DIN 223				✓	✓	✓	✓	800	12060	337	
	-		SINISTRA SINISTRA	2÷52	DIN 223				✓	✓	✓	✓	800	12062	338	
	TiN		NON A NORMA DIN NON A NORMA DIN	3÷12			✓		✓	✓	✓	✓	950	12067	339	
	-		NON A NORMA DIN NON A NORMA DIN	2÷20					✓	✓	✓	✓	800	12066	339	
	-		ESAGONALI ESAGONALI	3÷68	DIN 382				✓	✓	✓	✓	800	12094	340	
	TiN		-	14÷22	DIN 223		✓		✓	✓	✓	✓	950	12165	336	
	-		-	2,5÷82	DIN 223				✓	✓	✓	✓	800	12065	342	
	-		SINISTRA SINISTRA	3÷36	DIN 223				✓	✓	✓	✓	800	12072	344	
	-		NON A NORMA DIN NON A NORMA DIN						✓	✓	✓	✓	800	12066	339	
	-		PER TUBI DI CONDUZIONE ELETTRICA PER TUBI DI CONDUZIONE ELETTRICA	12÷63	DIN 223				✓	✓	✓	✓	800	12069	346	
	-		ESAGONALI ESAGONALI	3÷20	DIN 382				✓	✓	✓	✓	800	12096	347	
	-		-	1/8÷4"	DIN 5158				✓	✓	✓	✓	800	12075	348	
	-		BSP	SINISTRA SINISTRA	1/8÷2"	DIN 5158				✓	✓	✓	✓	800	12077	348
	-		ESAGONALI ESAGONALI	1/8÷2"	DIN 382				✓	✓	✓	✓	800	12098	349	
-	BSPT	CONICA 1:16 CONICA 1:16	1/8÷2"	352				✓	✓	✓	✓	800	12089	350		

MATERIALE MATERIAL	RIVESTIMENTO COATING	FILETTATURA THREAD	SPECIALITÀ FEATURES	DIAMETRO INTERNO INTERNAL DIAMETER	NORMA STANDARD	IMMAGINE IMAGE	INOX STAINLESS STEEL	ACCIAIO <1400 N/mm STEEL <1400 N/mm	ACCIAIO <900 N/mm STEEL <900 N/mm	ACCIAIO <700 N/mm ACCIAIO <700 N/mm	OTTONE BRASS	ALLUMINIO E LEGHE ALUMINIUM/ALLOYS	R_S/mm ²	COD.	
HSS	-	BSF	-	3/16÷1"	DIN 223				✓	✓	✓	✓	800	12087	350
	-	BSW	SINISTRA SINISTRA	1/16÷2"	DIN 223				✓	✓	✓	✓	800	12070	351
	-	NPT	CONICA 1:16 CONICA 1:16	1/8÷1"	DIN 223				✓	✓	✓	✓	800	12088	351
	-	UNC	-	4÷2"	DIN 223				✓	✓	✓	✓	800	12091	352
	-	UNF	SINISTRA SINISTRA	6÷1"	DIN 223				✓	✓	✓	✓	800	12080	352
	-	UNF	-	2÷1.1/2	DIN 223				✓	✓	✓	✓	800	12082	353
	-	UNEF	-	1/4 ÷ 1.1/8	DIN 223				✓	✓	✓	✓	800	12085	353
	-	Pg	PER TUBI DI CONDUZIONE ELETTRICA PER TUBI DI CONDUZIONE ELETTRICA	13,5÷48	DIN 40434				✓	✓	✓	✓	800	12086	354
	-	M	-	2÷36	DIN 223				✓	✓	✓	✓	800	12079	354
	-	MF	-	6÷30	DIN 223				✓	✓	✓	✓	800	12093	355
C.V.	-	BSP	-	1/8÷2"	DIN 223				✓	✓	✓	✓	600	12001	356
	-	BSPT	CONICA 1:16 CONICA 1:16	1/8÷2"	DIN 223				✓	✓	✓	✓	600	12005	357
	-	BSF	-	3/16÷1"	DIN 223				✓	✓	✓	✓	600	12015	358
	-	BSW	-	1/8÷2"	DIN 223				✓	✓	✓	✓	600	12017	358
	-	NPT	CONICA 1:16 CONICA 1:16	1/8÷2"	DIN 223				✓	✓	✓	✓	600	12012	359
	-	UNC	-	5÷1.1/2	DIN 223				✓	✓	✓	✓	600	12010	359
	-	UNF	-	5÷1.1/2	DIN 223				✓	✓	✓	✓	600	12032	360
	-	UNC	-	5÷1.1/2	DIN 223				✓	✓	✓	✓	600	12020	360
	-	UNF	-	5÷1.1/2	DIN 223				✓	✓	✓	✓	600	12025	361

**FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO,
FILETTATURA METRICA ISO A PASSO GROSSO**
Round dies, spiral point, metric coarse thread

12144

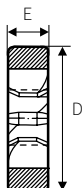
HSS-CO DIN 223 - EN 22568 6g

M



HRC = 63+64
AISI M35
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
M	3 x 0,5	20 x 5	1	1214403X05	22,335
	4 x 0,7	20 x 5	1	1214404X07	22,335
	5 x 0,8	20 x 7	1	1214405X08	22,922
	6 x 1	20 x 7	1	1214406X1	22,922
	8 x 1,25	25 x 9	1	1214408X125	23,834
	10 x 1,5	30 x 11	1	1214410X15	28,345
	12 x 1,75	38 x 14	1	1214412X175	44,174
	14 x 2	38 x 14	1	1214414X2	50,758
	16 x 2	45 x 18	1	1214416X2	68,254
	18 x 2,5	45 x 18	1	1214418X25	80,694
	20 x 2,5	45 x 18	1	1214420X25	80,694
	22 x 2,5	55 x 22	1	1214422X25	135,377
	24 x 3	55 x 22	1	1214424X3	135,377
	27 x 3	65 x 25	1	1214427X3	189,054
	30 x 3,5	65 x 25	1	1214430X35	189,054

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

**FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO,
FILETTATURA METRICA ISO A PASSO FINE**
Round dies, spiral point, metric coarse thread

12146

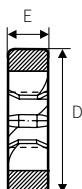
HSS-CO DIN 223 - EN 22568 6g

MF



HRC = 63+64
AISI M35
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
M	6 x 0,75	20 x 7	1	1214606X075	33,019
	8 x 0,75	25 x 9	1	1214608X075	35,036
	8 x 1	25 x 9	1	1214608X1	35,036
	10 x 1	30 x 11	1	1214610X1	41,130
	10 x 1,25	30 x 11	1	1214610X125	46,049
	12 x 1	38 x 10	1	1214612X1	66,268
	12 x 1,25	38 x 10	1	1214612X125	59,636
	12 x 1,5	38 x 10	1	1214612X15	57,203
	14 x 1,25	38 x 10	1	1214614X125	63,090
	14 x 1,5	38 x 10	1	1214614X15	58,453
	16 x 1,5	45 x 14	1	1214616X15	89,862
	18 x 1,5	45 x 14	1	1214618X15	103,983
	18 x 2	45 x 14	1	1214618X2	108,041
	20 x 1,5	45 x 14	1	1214620X15	103,983
	20 x 2	45 x 14	1	1214620X2	108,041
	22 x 1,5	55 x 16	1	1214622X15	178,042
	24 x 1,5	55 x 16	1	1214624X15	178,042

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO,
FILETTATURA GAS CILINDRICA ISO 228
Spiral point round dies, spiral point, Whitworth pipe thread ISO 228

12148

HSS-CO **DIN 5158 - EN 24231**

BSP (GAS)

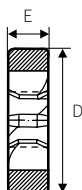


HRC = 63+64
AISI M35
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
G	1/8 x 28	30 x 11	1	121481/8	56,189
	1/4 x 19	38 x 10	1	121481/4	63,018
	3/8 x 19	45 x 14	1	121483/8	90,940
	1/2 x 14	45 x 14	1	121481/2	90,940
	3/4 x 14	55 x 16	1	121483/4	121,725
	1" x 11	65 x 18	1	121481	196,570



R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

**FILIERE TONDE IN HSS A IMBOCCO CORRETTO RIVESTITE AL TIN,
FILETTATURA METRICA ISO A PASSO GROSSO**
TiN round dies, metric coarse thread

12165

HSS

TiN

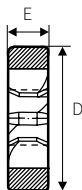
DIN 223 - EN 22568 6g

M



HV 0,05 ≈ 2500
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 950 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
M	3 x 0,5	20 x 5	1	1216503X05	22,047
	4 x 0,7	20 x 5	1	1216504X07	22,047
	5 x 0,8	20 x 7	1	1216505X08	22,518
	6 x 1	20 x 7	1	1216506X1	22,518
	8 x 1,25	25 x 9	1	1216508X125	25,467
	10 x 1,5	30 x 11	1	1216510X15	30,692
	12 x 1,75	38 x 14	1	1216512X175	44,443
	14 x 2	38 x 14	1	1216514X2	48,887
	16 x 2	45 x 18	1	1216516X2	58,017
	18 x 2,5	45 x 18	1	1216518X25	67,381
20 x 2,5	45 x 18	1	1216520X25	67,381	
MF	14 x 1,5	38 x 14	1	1216514X15	48,887
	16 x 1,5	45 x 18	1	1216516X15	58,017
	18 x 1,5	45 x 18	1	1216518X15	67,381
	22 x 1,5	45 x 18	1	1216522X15	127,456

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA METRICA ISO A PASSO GROSSO

Round dies, metric coarse thread

12060

HSS

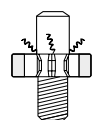
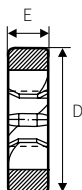
DIN 223 - EN 22568 6g

M



HV = 62±63
AISI M2
FORM B

Imbocco corretto
Spiral Point



$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



Confezione
Packaging



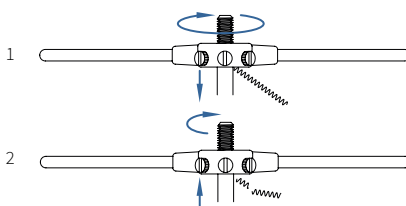
15037



15035



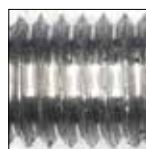
	Ø	DxE	pcs	cod.	€ cad/each
M	1 x 0,25	16 x 5	1	1206001X025	46,012
	1,1 x 0,25	16 x 5	1	12060011X025	46,012
	1,2 x 0,25	16 x 5	1	12060012X025	46,012
	1,4 x 0,3	16 x 5	1	12060014X03	46,012
	1,6 x 0,35	16 x 5	1	12060016X035	46,012
	1,7 x 0,35	16 x 5	1	12060017X035	46,012
	1,8 x 0,35	16 x 5	1	12060018X035	46,012
	2 x 0,4	16 x 5	1	1206002X04	22,138
	2,2 x 0,45	16 x 5	1	12060022X045	28,268
	2,3 x 0,4	16 x 5	1	12060023X04	28,268
	2,5 x 0,45	16 x 5	1	12060025X045	22,309
	2,6 x 0,45	16 x 5	1	12060026X045	28,268
	3 x 0,5	20 x 5	1	1206003X05	18,670
	3,5 x 0,6	20 x 5	1	12060035X06	28,268
	4 x 0,7	20 x 5	1	1206004X07	18,670
	4,5 x 0,75	20 x 7	1	12060045X075	22,309
	5 x 0,8	20 x 7	1	1206005X08	19,309
	5,5 x 0,9	20 x 7	1	12060055X09	28,411
	6 x 1	20 x 7	1	1206006X1	20,261
	7 x 1	25 x 9	1	1206007X1	22,818
	8 x 1,25	25 x 9	1	1206008X125	21,474
	9 x 1,25	25 x 9	1	1206009X125	27,354
10 x 1,5	30 x 11	1	1206010X15	24,264	
11 x 1,5	30 x 11	1	1206011X15	38,149	
12 x 1,75	38 x 14	1	1206012X175	35,542	
14 x 2	38 x 14	1	1206014X2	37,369	
15 x 2	38 x 14	1	1206015X2	58,672	
16 x 2	45 x 18	1	1206016X2	45,686	
18 x 2,5	45 x 18	1	1206018X25	50,158	
19 x 2,5	45 x 18	1	1206019X25	64,210	
20 x 2,5	45 x 18	1	1206020X25	54,486	
22 x 2,5	55 x 22	1	1206022X25	86,027	
24 x 3	55 x 22	1	1206024X3	101,358	
27 x 3	65 x 25	1	1206027X3	125,486	
30 x 3,5	65 x 25	1	1206030X35	135,746	
33 x 3,5	65 x 25	1	1206033X35	148,598	
36 x 4	65 x 25	1	1206036X4	152,927	
39 x 4	75 x 30	1	1206039X4	223,607	
42 x 4,5	75 x 30	1	1206042X45	238,037	
45 x 4,5	90 x 36	1	1206045X45	353,448	
48 x 5	90 x 36	1	1206048X5	321,315	
52 x 5	90 x 36	1	1206052X5	369,053	
56 x 5,5	105 x 36	1	1206056X55	496,085	
60 x 5,5	105 x 36	1	1206060X55	496,085	
64 x 6	120 x 36	1	1206064X6	498,505	
68 x 6	120 x 36	1	1206068X6	498,505	
72 x 6	130 x 36	1	1206072X6	1.689,088	



É buona norma, ad ogni rotazione della filiera⁽¹⁾,
effettuare mezzo giro indietro per rompere
il truciolo⁽²⁾

Please rotate clockwise the round die⁽¹⁾
then anticlockwise to break the chip⁽²⁾

Risultato: ottima finitura del filetto
Result: good thread finishing



FILIERE TONDE IN HSS SINISTRE,
FILETTATURA METRICA A PASSO GROSSO
Round dies, metric coarse thread, left hand

12062

HSS

DIN 223 - EN 22568 6g

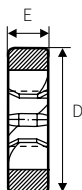
M

Sinistra
Left hand



HV = 63±64
AISI M35
FORM B

Imbocco corretto
Spiral Point



Confezione
Packaging



1 pcs

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
M	2 x 0,4	16 x 5	1	1206202X04	41,395
	3 x 0,5	20 x 5	1	1206203X05	22,482
	4 x 0,7	20 x 5	1	1206204X07	22,482
	5 x 0,8	20 x 7	1	1206205X08	23,257
	6 x 1	20 x 7	1	1206206X1	23,257
	7 x 1	25 x 9	1	1206207X1	28,276
	8 x 1,25	25 x 9	1	1206208X125	24,639
	10 x 1,5	30 x 11	1	1206210X15	29,612
	12 x 1,75	38 x 14	1	1206212X175	45,387
	14 x 2	38 x 14	1	1206214X2	45,387
	16 x 2	45 x 18	1	1206216X2	61,004
	18 x 2,5	45 x 18	1	1206218X25	73,797
	20 x 2,5	45 x 18	1	1206220X25	73,797
	22 x 2,5	55 x 22	1	1206222X25	140,948
	24 x 3	55 x 22	1	1206224X3	140,948
	27 x 3	65 x 25	1	1206227X3	197,379
30 x 3,5	65 x 25	1	1206230X35	197,379	
33 x 3,5	65 x 25	1	1206233X35	220,867	
36 x 4	65 x 25	1	1206236X4	242,633	
39 x 4	75 x 30	1	1206239X4	405,247	
42 x 4,5	75 x 30	1	1206242X45	405,247	
45 x 4,5	90 x 36	1	1206245X45	637,391	
48 x 5	90 x 36	1	1206248X5	637,391	
52 x 5	90 x 36	1	1206252X5	637,391	

FILIERE TONDE IN HSS NON A NORMA DIN, FILETTATURA METRICA ISO A PASSO GROSSO

Round dies with special outside diameter

DIAMETRO ESTERNO SPECIALE
SPECIAL OUTSIDE DIAMETER

12067

HSS

TiN

6g NON A NORMA DIN

M



Filiera con Ø esterno speciale
Round dies with special outside diameter



R ≤ 950 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
M	3 x 0,5	25 x 9	1	12067203X05	16,423
	4 x 0,7	25 x 9	1	12067204X07	16,423
	5 x 0,8	25 x 9	1	12067205X08	16,423
	6 x 1	25 x 9	1	12067206X1	16,423
	8 x 1,25	25 x 9	1	12067208X125	16,861
	10 x 1,5	25 x 9	1	12067210X15	16,861
	12 x 1,75	25 x 9	1	12067212X175	17,462

12066

HSS

6g NON A NORMA DIN

M



Filiera con Ø esterno speciale
Round dies with special outside diameter



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
M	2 x 0,4	25 x 9	1	12066202X04	29,479
	3 x 0,5	25 x 9	1	12066203X05	12,994
	4 x 0,7	25 x 9	1	12066204X07	12,994
	5 x 0,8	25 x 9	1	12066205X08	12,994
	6 x 1	25 x 9	1	12066206X1	12,994
	7 x 1	25 x 9	1	12066207X1	12,994
	8 x 1,25	25 x 9	1	12066208X125	12,994
	10 x 1,5	25 x 9	1	12066210X15	12,994
	12 x 1,75	25 x 9	1	12066212X175	15,409
	10 x 1,5	38 x 14	1	12066310X15	22,037
	12 x 1,75	38 x 14	1	12066312X175	26,556
	14 x 2	38 x 14	1	12066314X2	26,556
	16 x 2	38 x 14	1	12066316X2	26,556
	18 x 2,5	38 x 14	1	12066318X25	30,544
	20 x 2,5	38 x 14	1	12066320X25	30,544

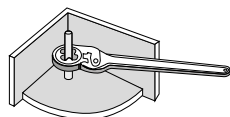
FILIERE IN HSS
ESAGONALI
Exagonal round dies

12094

HSS

DIN 382 6g

M



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
M	3 x 0,5	19 x 5	1	1209403x05	28,651
	4 x 0,7	19 x 5	1	1209404x07	28,651
	5 x 0,8	19 x 7	1	1209405x08	28,651
	6 x 1	19 x 7	1	1209406x1	28,651
	7 x 1	22 x 9	1	1209407x1	30,520
	8 x 1,25	22 x 9	1	1209408x125	30,408
	9 x 1,25	22 x 9	1	1209409x125	30,520
	10 x 1,5	27 x 11	1	1209410x15	38,175
	11 x 1,5	27 x 11	1	1209411x15	38,175
	12 x 1,75	36 x 14	1	1209412x175	50,661
	14 x 2	36 x 14	1	1209414x2	50,661
	16 x 2	41 x 18	1	1209416x2	71,604
	18 x 2,5	41 x 18	1	1209418x25	71,604
	20 x 2,5	41 x 18	1	1209420x25	71,604
	22 x 2,5	50 x 22	1	1209422x25	133,951
	24 x 3	50 x 22	1	1209424x3	160,089
	27 x 3	60 x 25	1	1209427x3	239,875
	30 x 3,5	60 x 25	1	1209430x35	239,875
	33 x 3,5	60 x 25	1	1209433x35	239,875
	36 x 4	60 x 25	1	1209436x4	239,875
39 x 4	70 x 30	1	1209439x4	396,593	
42 x 4,5	70 x 30	1	1209442x45	396,593	
45 x 4,5	85 x 36	1	1209445x45	550,113	
48 x 5	85 x 36	1	1209448x5	550,113	
52 x 5	85 x 36	1	1209452x5	550,113	
56 x 5,5	100 x 36	1	1209456x55	953,103	
60 x 5,5	100 x 36	1	1209460x55	953,103	
64 x 6	100 x 36	1	1209464x6	953,103	
68 x 6	115 x 36	1	1209468x6	1.247,351	

Per generare nuovi filetti e ripassare filettature danneggiate in punti di difficile accesso.

To generate new threads and overhaul the damaged ones.

FILIERE TONDE IN HSS A IMBOCCO CORRETTO RIVESTITE AL TIN,
FILETTATURA METRICA ISO A PASSO FINE
TiN round dies, metric coarse thread

12165

HSS

TiN

DIN 223 - EN 22568 6g

MF

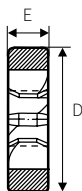


HV 0,05 = 2500
AISI M2
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
MF	14 x 1,5	38 x 14	1	1216514x15	48,887
	16 x 1,5	45 x 18	1	1216516x15	58,017
	18 x 1,5	45 x 18	1	1216518x15	67,381
	22 x 1,5	45 x 18	1	1216522x15	127,456



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

**FILIERE TONDE IN HSS A IMBOCCO CORRETTO,
FILETTATURA METRICA A PASSO FINE**
Round dies, spiral point, metric fine thread

12065

HSS

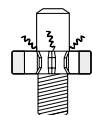
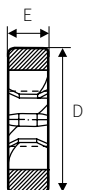
DIN 223 - EN 22568 - 6g

MF



HV = 62±63
AISI M2
FORM B

Imbocco corretto
Spiral Point



Confezione
Packaging



1 pcs

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



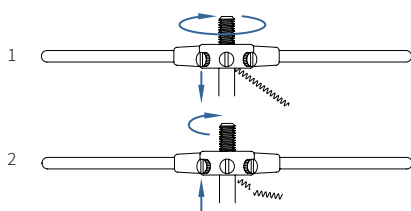
Metalli
Metals



Alluminio
Aluminum



Olio
Oil



È buona norma, ad ogni rotazione della filiera⁽¹⁾,
effettuare mezzo giro indietro per rompere
il truciolo⁽²⁾

Please rotate clockwise the round die⁽¹⁾
then anticlockwise to break the chip⁽²⁾



Risultato:
ottima finitura del filetto
Result:
good thread finishing

Ø M84 x 1,5÷105 x 4

A richiesta
On demand



	Ø	DxE	pcs	cod.	€ cad/each	
M	2,5	x 0,35	16 x 5	1	12065025X035	44,317
	2,6	x 0,35	16 x 5	1	12065026X035	44,317
	3	x 0,35	20 x 5	1	1206503X035	23,274
	3,5	x 0,35	20 x 5	1	12065035X035	27,928
	4	x 0,35	20 x 5	1	1206504X035	36,597
	4	x 0,5	20 x 5	1	1206504X05	25,601
	4,5	x 0,5	20 x 5	1	12065045X05	41,462
	5	x 0,5	20 x 5	1	1206505X05	25,601
	5	x 0,75	20 x 7	1	1206505X075	31,801
	5,5	x 0,5	20 x 5	1	12065055X05	41,462
	6	x 0,5	20 x 5	1	1206506X05	31,801
	6	x 0,75	20 x 7	1	1206506X075	31,801
	7	x 0,5	25 x 9	1	1206507X05	41,462
	7	x 0,75	25 x 9	1	1206507X075	31,801
	8	x 0,5	25 x 9	1	1206508X05	31,801
	8	x 0,75	25 x 9	1	1206508X075	25,347
	8	x 1	25 x 9	1	1206508X1	25,347
	9	x 0,5	25 x 9	1	1206509X05	55,842
	9	x 0,75	25 x 9	1	1206509X075	55,842
	9	x 1	25 x 9	1	1206509X1	34,486
	10	x 0,5	30 x 11	1	1206510X05	55,842
	10	x 0,75	30 x 11	1	1206510X075	30,339
	10	x 1	30 x 11	1	1206510X1	28,489
	10	x 1,25	30 x 11	1	1206510X125	28,489
	11	x 1	30 x 11	1	1206511X1	41,749
	11	x 1,25	30 x 11	1	1206511X125	41,749
	12	x 0,5	38 x 10	1	1206512X05	54,852
	12	x 0,75	38 x 10	1	1206512X075	54,852
	12	x 1	38 x 10	1	1206512X1	36,808
	12	x 1,25	38 x 10	1	1206512X125	36,808
	12	x 1,5	38 x 10	1	1206512X15	35,451
	13	x 0,5	38 x 10	1	1206513X05	70,797
	13	x 0,75	38 x 10	1	1206513X075	70,797
	13	x 1	38 x 10	1	1206513X1	57,761
	13	x 1,5	38 x 10	1	1206513X15	57,761
	14	x 0,5	38 x 10	1	1206514X05	70,902
	14	x 0,75	38 x 10	1	1206514X075	70,902
	14	x 1	38 x 10	1	1206514X1	45,117
	14	x 1,25	38 x 10	1	1206514X125	45,117
	14	x 1,5	38 x 10	1	1206514X15	45,117
	15	x 0,75	38 x 10	1	1206515X075	106,066
	15	x 1	38 x 10	1	1206515X1	92,232
	15	x 1,5	38 x 10	1	1206515X15	66,782
	16	x 0,5	45 x 14	1	1206516X05	114,240
	16	x 0,75	45 x 14	1	1206516X075	114,240
	16	x 1	45 x 14	1	1206516X1	60,456
	16	x 1,25	45 x 14	1	1206516X125	75,621
	16	x 1,5	45 x 14	1	1206516X15	50,380
	17	x 1	45 x 14	1	1206517X1	92,232
	17	x 1,5	45 x 14	1	1206517X15	114,087
	18	x 0,5	45 x 14	1	1206518X05	114,087
	18	x 0,75	45 x 14	1	1206518X075	114,087
	18	x 1	45 x 14	1	1206518X1	61,227
	18	x 1,25	45 x 14	1	1206518X125	92,232
	18	x 1,5	45 x 14	1	1206518X15	61,227
	18	x 2	45 x 14	1	1206518X2	61,227
	19	x 1	45 x 14	1	1206519X1	125,167
	19	x 1,5	45 x 14	1	1206519X15	92,232
	20	x 0,5	45 x 14	1	1206520X05	125,167
	20	x 0,75	45 x 14	1	1206520X075	125,167
	20	x 1	45 x 14	1	1206520X1	68,189
	20	x 1,25	45 x 14	1	1206520X125	68,189
	20	x 1,5	45 x 14	1	1206520X15	68,189
	20	x 2	45 x 14	1	1206520X2	68,189
	21	x 1	45 x 14	1	1206521X1	123,863
	21	x 1,5	45 x 14	1	1206521X15	110,003
	22	x 0,5	55 x 16	1	1206522X05	175,143
	22	x 0,75	55 x 16	1	1206522X075	175,143

			Ø	DxE	pcs	cod.	cad/each	€
M	22	x 1	55	x 16	1	1206522X1	101,828	
	22	x 1,25	55	x 16	1	1206522X125	101,828	
	22	x 1,5	55	x 16	1	1206522X15	95,179	
	22	x 2	55	x 16	1	1206522X2	95,179	
	23	x 1	55	x 16	1	1206523X1	197,998	
	23	x 1,5	55	x 16	1	1206523X15	197,998	
	24	x 0,5	55	x 16	1	1206524X05	197,998	
	24	x 0,75	55	x 16	1	1206524X075	197,998	
	24	x 1	55	x 16	1	1206524X1	103,654	
	24	x 1,25	55	x 16	1	1206524X125	103,654	
	24	x 1,5	55	x 16	1	1206524X15	103,654	
	24	x 2	55	x 16	1	1206524X2	103,654	
	25	x 1	55	x 16	1	1206525X1	143,837	
	25	x 1,5	55	x 16	1	1206525X15	143,837	
	25	x 2	55	x 16	1	1206525X2	133,016	
	26	x 1	55	x 16	1	1206526X1	179,719	
	26	x 1,5	55	x 16	1	1206526X15	179,719	
	26	x 2	55	x 16	1	1206526X2	179,719	
	27	x 1	65	x 18	1	1206527X1	203,396	
	27	x 1,5	65	x 18	1	1206527X15	203,396	
	27	x 2	65	x 18	1	1206527X2	203,396	
	28	x 1	65	x 18	1	1206528X1	203,396	
	28	x 1,5	65	x 18	1	1206528X15	203,396	
	28	x 2	65	x 18	1	1206528X2	203,396	
	29	x 1,5	65	x 18	1	1206529X15	203,396	
	30	x 1	65	x 18	1	1206530X1	203,396	
	30	x 1,5	65	x 18	1	1206530X15	203,396	
	30	x 2	65	x 18	1	1206530X2	203,396	
	30	x 2,5	65	x 18	1	1206530X25	203,396	
	30	x 3	65	x 25	1	1206530X3	203,396	
	32	x 1	65	x 18	1	1206532X1	270,764	
	32	x 1,5	65	x 18	1	1206532X15	201,441	
	32	x 2	65	x 18	1	1206532X2	201,441	
	32	x 3	65	x 25	1	1206532X3	201,441	
	33	x 1,5	65	x 18	1	1206533X15	229,864	
	33	x 2	65	x 18	1	1206533X2	229,864	
	33	x 3	65	x 25	1	1206533X3	229,864	
	34	x 1	65	x 18	1	1206534X1	270,764	
	34	x 1,5	65	x 18	1	1206534X15	229,864	
	34	x 2	65	x 18	1	1206534X2	229,864	
	35	x 1	65	x 18	1	1206535X1	270,764	
	35	x 1,5	65	x 18	1	1206535X15	241,142	
	35	x 2	65	x 18	1	1206535X2	270,764	
	36	x 1	65	x 18	1	1206536X1	270,764	
	36	x 1,5	65	x 18	1	1206536X15	241,142	
	36	x 2	65	x 18	1	1206536X2	241,142	
	36	x 3	65	x 25	1	1206536X3	241,142	
	37	x 1,5	65	x 18	1	1206537X15	470,471	
	38	x 1	75	x 20	1	1206538X1	470,471	
	38	x 1,5	75	x 20	1	1206538X15	334,168	
	38	x 2	75	x 20	1	1206538X2	334,168	
	38	x 3	75	x 30	1	1206538X3	448,972	
	39	x 1,5	75	x 20	1	1206539X15	332,858	
	39	x 2	75	x 20	1	1206539X2	332,858	
	39	x 3	75	x 30	1	1206539X3	332,858	
	40	x 1	75	x 20	1	1206540X1	448,972	
	40	x 1,5	75	x 20	1	1206540X15	332,858	
	40	x 2	75	x 20	1	1206540X2	332,858	
	40	x 3	75	x 30	1	1206540X3	332,858	
	42	x 1	75	x 20	1	1206542X1	448,972	
	42	x 1,5	75	x 20	1	1206542X15	332,858	
	42	x 2	75	x 20	1	1206542X2	332,858	
	42	x 3	75	x 30	1	1206542X3	332,858	
	44	x 1,5	90	x 22	1	1206544X15	727,654	
	44	x 2	90	x 22	1	1206544X2	727,654	
	45	x 1	90	x 22	1	1206545X1	727,654	
	45	x 1,5	90	x 22	1	1206545X15	534,131	
	45	x 2	90	x 22	1	1206545X2	534,131	
	45	x 3	90	x 36	1	1206545X3	534,131	
	46	x 1,5	90	x 22	1	1206546X15	727,654	
	48	x 1	90	x 22	1	1206548X1	727,654	
	48	x 1,5	90	x 22	1	1206548X15	534,131	
	48	x 2	90	x 22	1	1206548X2	534,131	
	48	x 3	90	x 36	1	1206548X3	534,131	
	50	x 1,5	90	x 22	1	1206550X15	534,131	
	50	x 2	90	x 22	1	1206550X2	534,131	
	50	x 3	90	x 36	1	1206550X3	534,131	
	52	x 1,5	90	x 22	1	1206552X15	534,131	

			Ø	DxE	pcs	cod.	cad/each	€
	52	x 2	90	x 22	1	1206552X2	534,131	
	52	x 3	90	x 36	1	1206552X3	534,131	
	54	x 1	105	x 22	1	1206554X1	983,102	
	54	x 1,5	105	x 22	1	1206554X15	1.033,460	
	54	x 2	105	x 22	1	1206554X2	1.033,460	
	54	x 3	105	x 36	1	1206554X3	1.033,460	
	54	x 4	105	x 36	1	1206554X4	1.033,460	
	55	x 1,5	105	x 22	1	1206555X15	1.033,460	
	55	x 2	105	x 22	1	1206555X2	1.033,460	
	55	x 3	105	x 36	1	1206555X3	1.033,460	
	55	x 4	105	x 36	1	1206555X4	1.033,460	
	56	x 1	105	x 22	1	1206556X1	1.033,460	
	56	x 1,5	105	x 22	1	1206556X15	1.033,460	
	56	x 2	105	x 22	1	1206556X2	1.033,460	
	56	x 3	105	x 36	1	1206556X3	1.033,460	
	56	x 4	105	x 36	1	1206556X4	1.033,460	
	58	x 1	105	x 22	1	1206558X1	1.033,460	
	58	x 1,5	105	x 22	1	1206558X15	1.033,460	
	58	x 2	105	x 22	1	1206558X2	1.033,460	
	58	x 3	105	x 36	1	1206558X3	1.033,460	
	58	x 4	105	x 36	1	1206558X4	1.033,460	
	60	x 1,5	105	x 22	1	1206560X15	1.033,460	
	60	x 2	105	x 22	1	1206560X2	1.033,460	
	60	x 3	105	x 36	1	1206560X3	1.033,460	
	60	x 4	105	x 36	1	1206560X4	1.033,460	
	62	x 1,5	105	x 22	1	1206562X15	1.033,460	
	62	x 2	105	x 22	1	1206562X2	1.033,460	
	62	x 3	105	x 36	1	1206562X3	1.033,460	
	62	x 4	105	x 36	1	1206562X4	1.033,460	
	63	x 1,5	105	x 22	1	1206563X15	1.033,460	
	64	x 1,5	120	x 22	1	1206564X15	1.184,289	
	64	x 2	120	x 22	1	1206564X2	1.184,289	
	64	x 3	120	x 36	1	1206564X3	1.184,289	
	64	x 4	120	x 36	1	1206564X4	1.184,289	
	65	x 1,5	120	x 22	1	1206565X15	1.184,289	
	65	x 2	120	x 22	1	1206565X2	1.184,289	
	65	x 3	120	x 36	1	1206565X3	1.184,289	
	65	x 4	120	x 36	1	1206565X4	1.184,289	
	68	x 1,5	120	x 22	1	1206568X15	1.184,289	
	68	x 2	120	x 22	1	1206568X2	1.184,289	
	68	x 3	120	x 36	1	1206568X3	1.184,289	
	68	x 4	120	x 36	1	1206568X4	1.184,289	
	70	x 1,5	120	x 22	1	1206570X15	1.184,289	
	70	x 2	120	x 22	1	1206570X2	1.184,289	
	70	x 3	120	x 36	1	1206570X3	1.184,289	
	70	x 4	120	x 36	1	1206570X4	1.184,289	
	72	x 1,5	120	x 22	1	1206572X15	1.184,289	
	72	x 2	120	x 22	1	1206572X2	1.184,289	
	72	x 3	120	x 36	1	1206572X3	1.184,289	
	72	x 4	120	x 36	1	1206572X4	1.184,289	
	74	x 1,5	120	x 22	1	1206574X15	1.184,289	
	74	x 2	120	x 22	1	1206574X2	1.184,289	
	74	x 3	120	x 36	1	1206574X3	1.184,289	
	74	x 4	120	x 36	1	1206574X4	1.184,289	
	75	x 1,5	120	x 22	1	1206575X15	1.184,289	
	75	x 2	120	x 22	1	1206575X2	1.184,289	
	75	x 3	120	x 36	1	1206575X3	1.184,289	
	75	x 4	120	x 36	1	1206575X4	1.184,289	
	76	x 1,5	120	x 22	1	1206576X15	1.184,289	
	76	x 2	120	x 22	1	1206576X2	1.184,289	
	76	x 3	120	x 36	1	1206576X3	1.184,289	
	76	x 4	120	x 36	1	1206576X4	1.184,289	
	78	x 1,5	120	x 22	1	1206578X15	1.184,289	
	78	x 2	120	x 22	1	1206578X2	1.184,289	
	78	x 3	120	x 36	1	1206578X3	1.184,289	
	78	x 4	120	x 36	1	1206578X4	1.184,289	
	<							

FILIERE TONDE IN HSS SINISTRE,
FILETTATURA METRICA A PASSO FINE
Round dies, spiral point, metric fine thread

12072

HSS

DIN 223 - EN 22568 6g

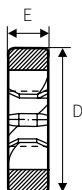
MF

Sinistra
Left hand



HV = 62±63
AISI M35
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

Ø M37 x 1,5+48 x 3

A richiesta
On demand



	Ø	DxE	pcs	cod.	€ cad/each
M	3 x 0,35	20 x 5	1	1207203X035	43,543
	4 x 0,5	20 x 5	1	1207204X05	43,543
	4,5 x 0,5	20 x 5	1	12072045X05	43,543
	5 x 0,75	20 x 7	1	1207205X075	43,543
	5,5 x 0,5	20 x 5	1	12072055X05	43,543
	6 x 0,5	20 x 5	1	1207206X05	43,543
	6 x 0,75	20 x 7	1	1207206X075	43,543
	7 x 0,5	25 x 9	1	1207207X05	46,222
	7 x 0,75	25 x 9	1	1207207X075	46,222
	8 x 0,75	25 x 9	1	1207208X075	46,222
	8 x 1	25 x 9	1	1207208X1	46,222
	9 x 0,5	25 x 9	1	1207209X05	54,274
	10 x 1	30 x 11	1	1207210X1	54,274
	10 x 1,25	30 x 11	1	1207210X125	54,274
	12 x 1	38 x 10	1	1207212X1	64,731
	12 x 1,25	38 x 10	1	1207212X125	71,408
	12 x 1,5	38 x 10	1	1207212X15	68,644
	13 x 1,5	38 x 10	1	1207213X15	75,688
	14 x 1	38 x 10	1	1207214X1	75,688
	14 x 1,25	38 x 10	1	1207214X125	75,688
	14 x 1,5	38 x 10	1	1207214X15	69,965
	15 x 1,5	38 x 10	1	1207215X15	107,857
	16 x 1	45 x 14	1	1207216X1	107,857
	16 x 1,25	45 x 14	1	1207216X125	107,857
	16 x 1,5	45 x 14	1	1207216X15	107,857
	18 x 1	45 x 14	1	1207218X1	117,254
	18 x 1,25	45 x 14	1	1207218X125	117,254
	18 x 1,5	45 x 14	1	1207218X15	117,254
	18 x 2	45 x 14	1	1207218X2	117,254
	20 x 1,25	45 x 14	1	1207220X125	117,254
	20 x 1,5	45 x 14	1	1207220X15	117,254
	20 x 2	45 x 14	1	1207220X2	117,254
	22 x 1,25	55 x 16	1	1207222X125	177,057
	22 x 1,5	55 x 16	1	1207222X15	177,057
	22 x 2	55 x 16	1	1207222X2	177,057
	23 x 1,5	55 x 16	1	1207223X15	177,057
	24 x 1,25	55 x 16	1	1207224X125	177,057
	24 x 1,5	55 x 16	1	1207224X15	177,057
	24 x 2	55 x 16	1	1207224X2	177,057
	25 x 1,5	55 x 16	1	1207225X15	177,057
	25 x 2	55 x 16	1	1207225X2	177,057
	26 x 1,5	55 x 16	1	1207226X15	220,928
	26 x 2	55 x 16	1	1207226X2	220,928
	27 x 1,5	65 x 18	1	1207227X15	220,928
	27 x 2	65 x 18	1	1207227X2	220,928
	28 x 1,5	65 x 18	1	1207228X15	220,928
	28 x 2	65 x 18	1	1207228X2	220,928
	30 x 1,5	65 x 18	1	1207230X15	315,264
	30 x 2	65 x 18	1	1207230X2	315,264
	30 x 2,5	65 x 18	1	1207230X25	315,264
	30 x 3	65 x 25	1	1207230X3	315,264
	32 x 1,5	65 x 18	1	1207232X15	315,264
	32 x 2	65 x 18	1	1207232X2	315,264
	32 x 3	65 x 25	1	1207232X3	315,264
	33 x 1,5	65 x 18	1	1207233X15	331,027
	33 x 2	65 x 18	1	1207233X2	331,027
	33 x 3	65 x 18	1	1207233X3	331,027
	34 x 1,5	65 x 18	1	1207234X15	339,516
	34 x 2	65 x 18	1	1207234X2	339,516
	35 x 1,5	65 x 25	1	1207235X15	339,516
	35 x 2	65 x 18	1	1207235X2	339,516
	36 x 1,5	65 x 18	1	1207236X15	339,516
	36 x 2	65 x 18	1	1207236X2	339,516
	36 x 3	65 x 18	1	1207236X3	339,516

FILIERE TONDE IN HSS NON A NORMA DIN,
FILETTATURA METRICA ISO A PASSO FINE
NPRound dies with special outside diameter

12066

HSS

6g NON A NORMA DIN

MF



Filiera con Ø
esterno speciale
Round dies with
special outside
diameter

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



	Ø	DxE	pcs	cod.	€ cad/each
MF	8 x 1	25 x 9	1	12066208X1	12,671
	10 x 1	38 x 14	1	12066310X1	22,059
	10 x 1,25	38 x 14	1	12066310X125	22,059
	12 x 1,25	38 x 14	1	12066312X125	26,556
	12 x 1,5	38 x 14	1	12066312X15	26,556
	14 x 1,25	38 x 14	1	12066314X125	26,556
	14 x 1,5	38 x 14	1	12066314X15	26,556
	16 x 1,5	38 x 14	1	12066316X15	26,556
	18 x 1,5	38 x 14	1	12066318X15	30,544

FILIERE TONDE IN HSS, FILETTATURA METRICA A PASSO FINE PER TUBI DI CONDUZIONE ELETTRICA

Round dies, metric fine thread for cables connections

12069

HSS

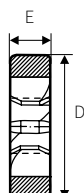
DIN 223 - EN 22568 6g

MF



HV = 62-63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel

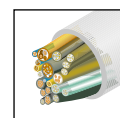


Metalli
Metals



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
MF	12 x 1,5	38 x 10	1	1206912X15	32,971
	16 x 1,5	45 x 14	1	1206916X15	46,853
	20 x 1,5	45 x 14	1	1206920X15	60,396
	25 x 1,5	55 x 16	1	1206925X15	133,767
	32 x 1,5	65 x 18	1	1206932X15	187,339
	40 x 1,5	75 x 20	1	1206940X15	332,858
	50 x 1,5	90 x 22	1	1206950X15	534,131
	63 x 1,5	105 x 22	1	1206963X15	1.033,460



Per tubi di
conduzione elettrica
For electrical
conduction tubes

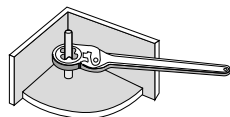
FILIERE ESAGONALI IN HSS,
FILETTAURA METRICA ISO A PASSO FINE
Exagonal round dies, metric fine thread

12096

HSS

DIN 382 6g

MF



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
MF	3 x 0,35	19 x 5	1	1209603x035	59,644
	4 x 0,35	19 x 5	1	1209604x035	59,644
	4 x 0,5	19 x 5	1	1209604x05	59,644
	5 x 0,5	19 x 5	1	1209605x05	59,644
	5 x 0,75	19 x 7	1	1209605x075	59,644
	6 x 0,5	19 x 5	1	1209606x05	59,644
	6 x 0,75	19 x 7	1	1209606x075	59,644
	7 x 0,75	22 x 9	1	1209607x075	63,768
	8 x 0,5	22 x 9	1	1209608x05	63,768
	8 x 0,75	22 x 9	1	1209608x075	63,768
	8 x 1	22 x 9	1	1209608x1	63,768
	9 x 0,75	22 x 9	1	1209609x075	63,768
	9 x 1	22 x 9	1	1209609x1	63,768
	10 x 0,75	27 x 11	1	1209610x075	63,768
	10 x 1	27 x 11	1	1209610x1	63,768
	10 x 1,25	27 x 11	1	1209610x125	63,768
	11 x 1	27 x 11	1	1209611x1	87,414
	11 x 1,25	27 x 11	1	1209611x125	87,414
	12 x 0,75	36 x 10	1	1209612x075	87,414
	12 x 1	36 x 10	1	1209612x1	87,414
12 x 1,25	36 x 10	1	1209612x125	87,414	
12 x 1,5	36 x 10	1	1209612x15	84,114	
13 x 1	36 x 10	1	1209613x1	95,355	
13 x 1,5	36 x 10	1	1209613x15	95,355	
14 x 0,75	36 x 10	1	1209614x075	95,355	
14 x 1	36 x 10	1	1209614x1	95,355	
14 x 1,25	36 x 10	1	1209614x125	95,355	
14 x 1,5	36 x 10	1	1209614x15	95,355	
15 x 1	36 x 10	1	1209615x1	123,402	
15 x 1,5	36 x 10	1	1209615x15	123,402	
16 x 1	41 x 14	1	1209616x1	123,402	
16 x 1,25	41 x 14	1	1209616x125	123,402	
16 x 1,5	41 x 14	1	1209616x15	123,402	
18 x 1	41 x 14	1	1209618x1	123,402	
18 x 1,25	41 x 14	1	1209618x125	123,402	
18 x 1,5	41 x 14	1	1209618x15	123,402	
18 x 2	41 x 14	1	1209618x2	123,402	
20 x 1	41 x 14	1	1209620x1	123,402	
20 x 1,25	41 x 14	1	1209620x125	123,402	
20 x 1,5	41 x 14	1	1209620x15	123,402	
20 x 2	41 x 14	1	1209620x2	123,402	

FILIERE TONDE IN HSS A IMBOCCO CORRETTO,
FILETTATURA GAS CILINDRICA ISO 228
Spiral point round dies, spiral point, BSP pipe thread ISO 228

12075

HSS

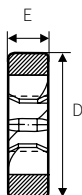
DIN 5158 - EN 24231

BSP (GAS)



HV = 62-63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
G	1/8 x 28	30 x 11	1	120751/8	40,367
	1/4 x 19	38 x 10	1	120751/4	44,342
	3/8 x 19	45 x 14	1	120753/8	63,706
	1/2 x 14	45 x 14	1	120751/2	65,218
	5/8 x 14	55 x 16	1	120755/8	97,160
	3/4 x 14	55 x 16	1	120753/4	142,430
	7/8 x 14	65 x 18	1	120757/8	150,891
	1" x 11	65 x 18	1	120751	156,536
	1.1/8 x 11	75 x 20	1	120751.1/8	219,995
	1.1/4 x 11	75 x 20	1	120751.1/4	219,995
	1.3/8 x 11	90 x 22	1	120751.3/8	291,912
	1.1/2 x 11	90 x 22	1	120751.1/2	291,912
	1.5/8 x 11	90 x 22	1	120751.5/8	303,191
	1.3/4 x 11	90 x 22	1	120751.3/4	363,829
	1.3/4 x 11	105 x 22	1	120751.3/4105	363,829
	2" x 11	90 x 22	1	1207592	468,189
	2" x 11	105 x 22	1	1207512	561,827
	2.1/4 x 11	105 x 22	1	120752.1/4	705,819
	2.1/2 x 11	120 x 22	1	120752.1/2	875,738
	2.3/4 x 11	120 x 22	1	120752.3/4	1.460,281
3" x 11	130 x 25	1	120753	1.629,777	
3.1/2 x 11	150 x 25	1	120753.1/2	2.659,666	
4" x 11	160 x 25	1	120754	3.324,746	

SINISTRI
LEFT HAND

12077

HSS

DIN 5158 - EN 24231

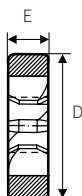
BSP (GAS)

Sinistra
Left hand



HV = 62-63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	Ø	DxE	pcs	cod.	€ cad/each
G	1/8 x 28	30 x 11	1	120771/8	82,951
	1/4 x 19	38 x 10	1	120771/4	95,143
	3/8 x 19	45 x 14	1	120773/8	137,751
	1/2 x 14	45 x 14	1	120771/2	137,751
	5/8 x 14	55 x 16	1	120775/8	186,577
	3/4 x 14	55 x 16	1	120773/4	233,855
	7/8 x 14	65 x 18	1	120777/8	258,920
	1" x 11	65 x 18	1	120771	258,920
	1.1/8 x 11	75 x 20	1	120771.1/8	310,951
	1.1/4 x 11	75 x 20	1	120771.1/4	310,951
	1.1/2 x 11	90 x 22	1	120771.1/2	507,676
	1.3/4 x 11	105 x 22	1	120771.3/4	880,819
	2" x 11	105 x 22	1	120772	880,818

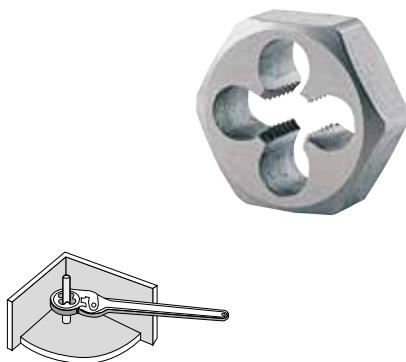
FILIERE IN HSS ESAGONALI
FILETTURA BSP (GAS)
Exagonal round dies BSP pipe thread

12098

HSS

DIN 382

BSP



	Ø	DxE	pcs	cod.	€ cad/each
G	1/8 x 28	27 x 11	1	120981/8	60,287
	1/4 x 19	36 x 10	1	120981/4	72,376
	3/8 x 19	41 x 14	1	120983/8	107,500
	1/2 x 14	41 x 14	1	120981/2	107,500
	5/8 x 14	50 x 16	1	120985/8	206,460
	3/4 x 14	50 x 16	1	120983/4	206,460
	7/8 x 14	60 x 18	1	120987/8	253,841
	1" x 11	60 x 18	1	120981	253,841
	1.1/8 x 11	70 x 20	1	120981.1/8	362,136
	1.1/2 x 11	85 x 22	1	120981.1/2	578,753
	2" x 11	100 x 22	1	120982	894,513

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



In esaurimento
To be discontinued



	cod.	€ cad/each
G 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1	12100500 BSP 1/8÷1"	930,747

Kit per idraulici e installatori
For plumbers and journeymen

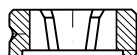


**FILIERE TONDE IN HSS,
FILETTATURA CONICA PER TUBI 1:16 BSPT**
Round dies, Whitworth taper thread 1:16 BSPT

12089

HSS

BSPT - Conica



Conicità 1:16
Taper 1:16

$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

	\emptyset	DxE	pcs	cod.	€ cad/each
Rc	1/8 x 28	30 x 11	1	120891/8	58,940
	1/4 x 19	38 x 14	1	120891/4	64,950
	3/8 x 19	45 x 18	1	120893/8	84,064
	1/2 x 14	45 x 18	1	120891/2	129,077
	3/4 x 14	55 x 22	1	120893/4	141,643
	1" x 11	65 x 25	1	120891	202,179
	1.1/4 x 11	75 x 26	1	120891.1/4	394,082
	1.1/2 x 11	90 x 27	1	120891.1/2	673,938
	2" x 11	105 x 28	1	120892	1.016,618

**FILIERE TONDE IN HSS A IMBOCCO CORRETTO,
FILETTATURA WHITWORTH A PASSO FINE**
Round dies, spiral point, Whitworth BSF thread BS-84

12087

HSS

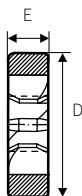
DIN 223 - EN 22568

BSF



HV = 62-63
AISI M2
FORM B

Imbocco corretto
Spiral Point



	\emptyset	DxE	pcs	cod.	€ cad/each
BSF	3/16 x 32	20 x 7	1	120873/16	39,414
	1/4 x 26	25 x 9	1	120871/4	44,059
	5/16 x 22	25 x 9	1	120875/16	44,059
	3/8 x 20	30 x 11	1	120873/8	53,794
	7/16 x 18	30 x 11	1	120877/16	53,794
	1/2 x 16	38 x 10	1	120871/2	62,686
	9/16 x 16	38 x 10	1	120879/16	68,098
	5/8 x 14	45 x 14	1	120875/8	85,972
	3/4 x 12	45 x 14	1	120873/4	90,060
	7/8 x 11	55 x 22	1	120877/8	143,348
	1" x 10	55 x 22	1	120871	143,348

$R \leq 800 \text{ N/mm}^2$

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

**FILIERE TONDE IN HSS A IMBOCCO CORRETTO,
FILETTATURA WHITWORTH A PASSO GROSSO BS-84**
Round dies, spiral point, Whitworth BSW thread BS-84

12070

HSS

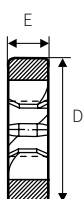
DIN 223 - EN 22568

BSW



HV = 62-63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



	Ø	DxE	pcs	cod.	€ cad/each
BSW	1/16 x 60	16 x 5	1	120701/16	44,004
	3/32 x 48	16 x 5	1	120703/32	44,004
	1/8 x 40	20 x 5	1	120701/8	32,108
	5/32 x 32	20 x 5	1	120705/32	30,194
	3/16 x 24	20 x 7	1	120703/16	30,194
	7/32 x 24	20 x 7	1	120707/32	30,194
	1/4 x 20	25 x 9	1	120701/4	30,194
	5/16 x 18	25 x 9	1	120705/16	33,211
	3/8 x 16	30 x 11	1	120703/8	41,748
	7/16 x 14	30 x 11	1	120707/16	41,748
	1/2 x 12	38 x 14	1	120701/2	46,089
	9/16 x 12	38 x 14	1	120709/16	67,358
	5/8 x 11	45 x 18	1	120705/8	67,358
	3/4 x 10	45 x 18	1	120703/4	74,997
	7/8 x 9	55 x 22	1	120707/8	103,042
	1" x 9	55 x 22	1	120701	108,451
	1.1/8 x 7	65 x 25	1	120701.1/8	144,269
	1.1/4 x 7	65 x 25	1	120701.1/4	144,269
	1.3/8 x 6	65 x 25	1	120701.3/8	207,213
	1.1/2 x 6	65 x 22	1	1207061.1/2	257,050
	1.1/2 x 6	75 x 30	1	1207071.1/2	449,178
	1.5/8 x 5	75 x 30	1	120701.5/8	302,958
	1.3/4 x 5	90 x 36	1	120701.3/4	416,923
	1.7/8 x 4,5	90 x 36	1	120701.7/8	416,923
	2" x 4,5	90 x 36	1	120702	416,923

**FILIERE TONDE IN HSS A IMBOCCO CORRETTO,
FILETTATURA SINISTRA WHITWORTH A PASSO GROSSO**
Round dies, spiral point, Whitworth BSW thread, LEFT HAND

12088

HSS

DIN 223 - EN 22568

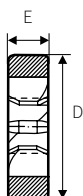
BSW

Sinistra
Left hand



HV = 62-63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil



	Ø	DxE	pcs	cod.	€ cad/each
BSW	1/8 x 40	20 x 5	1	120881/8	49,164
	5/32 x 32	20 x 5	1	120885/32	49,164
	3/16 x 24	20 x 7	1	120883/16	49,164
	1/4 x 20	20 x 7	1	120881/4	49,164
	5/16 x 18	25 x 9	1	120885/16	54,969
	3/8 x 16	30 x 11	1	120883/8	64,179
	7/16 x 14	30 x 11	1	120887/16	70,432
	1/2 x 12	38 x 14	1	120881/2	105,878
	9/16 x 12	38 x 14	1	120889/16	105,878
	5/8 x 11	45 x 18	1	120885/8	134,753
	3/4 x 10	45 x 18	1	120883/4	134,753
	7/8 x 9	55 x 22	1	120887/8	195,714
	1" x 8	55 x 22	1	120881	195,714

**SINISTRE
LEFT HAND**

FILIERE TONDE IN HSS,
FILETTATURA CONICA AMERICANA PER TUBI 1:16 NPT
Round dies, taper pipe thread NPT

12091

HSS

NPT - Conica



Conicità 1:16
Taper 1:16

	Ø	DxE	pcs	cod.	€ cad/each
NPT	1/16 x 27	25 x 9	1	120911/16	47,992
	1/8 x 27	30 x 11	1	120911/8	58,940
	1/4 x 18	38 x 14	1	120911/4	64,950
	3/8 x 18	45 x 18	1	120913/8	84,064
	1/2 x 14	45 x 18	1	120911/2	129,077
	3/4 x 14	55 x 22	1	120913/4	141,643
	1" x 11,5	65 x 25	1	120911	202,179
	1.1/4 x 11,5	75 x 26	1	120911.1/4	394,082
	1.1/2 x 11,5	90 x 27	1	120911.1/2	673,938
	2" x 11,5	105 x 28	1	120912	1.016,618

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

FILIERE TONDE IN HSS A IMBOCCO CORRETTO,
FILETTATURA AMERICANA UNC PASSO GROSSO ANSI B1.1
Round dies, spiral point, unified coarse thread UNC

12080

HSS

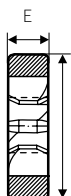
DIN 223 - EN 22568

UNC



HV ≈ 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
N°	4 x 40	20 x 5	1	12080N04	43,065
	5 x 40	20 x 5	1	12080N05	37,289
	6 x 32	20 x 7	1	12080N06	37,289
	8 x 32	20 x 7	1	12080N08	37,289
	10 x 24	20 x 7	1	12080N10	37,289
	12 x 24	20 x 7	1	12080N12	37,289
UNC	1/4 x 20	20 x 7	1	120801/4	34,133
	5/16 x 18	25 x 9	1	120805/16	38,033
	3/8 x 16	30 x 11	1	120803/8	46,872
	7/16 x 14	30 x 11	1	120807/16	46,872
	1/2 x 13	38 x 14	1	120801/2	54,433
	9/16 x 12	38 x 14	1	120809/16	59,389
	5/8 x 11	45 x 18	1	120805/8	74,696
	3/4 x 10	45 x 18	1	120803/4	78,412
	7/8 x 9	55 x 22	1	120807/8	110,016
	1" x 8	55 x 22	1	120801	113,745
	1.1/8 x 7	65 x 25	1	120801.1/8	164,998
	1.1/4 x 7	65 x 25	1	120801.1/4	164,998
	1.3/8 x 6	65 x 25	1	120801.3/8	164,998
	1.1/2 x 6	65 x 25	1	1208061.1/2	351,146
	1.1/2 x 6	75 x 30	1	1208071.1/2	351,146
	1.5/8 x 5	75 x 30	1	120801.5/8	351,146
1.3/4 x 5	90 x 36	1	120801.3/4	471,007	
1.7/8 x 4,5	90 x 36	1	120801.7/8	471,007	
2" x 4,5	90 x 36	1	120802	584,112	

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

**FILIERE TONDE IN HSS SINISTRE,
FILETTATURA AMERICANA UNC PASSO GROSSO ANSI B1.1**
Round dies, spiral point, unified coarse thread UNC

12082

HSS

DIN 223 - EN 22568

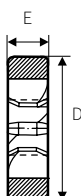
UNC

Sinistra
Left hand



HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
N°	6 x 32	20 x 7	1	12082NR06	52,730
	8 x 32	20 x 7	1	12082NR08	52,730
	10 x 24	20 x 7	1	12082NR10	52,730
UNC	1/4 x 20	20 x 7	1	120821/4	43,131
	5/16 x 18	25 x 9	1	120825/16	51,125
	3/8 x 16	30 x 11	1	120823/8	60,652
	7/16 x 14	38 x 14	1	120827/16	60,652
	1/2 x 13	38 x 14	1	120821/2	95,841
	9/16 x 12	38 x 14	1	120829/16	95,841
	5/8 x 11	45 x 18	1	120825/8	121,367
	3/4 x 10	45 x 18	1	120823/4	121,367
	7/8 x 9	55 x 22	1	120827/8	175,692
	1" x 8	55 x 22	1	120821	175,693

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

**FILIERE TONDE IN HSS,
FILETTATURA AMERICANA UNF A PASSO FINE ANSI B1.1**
Round dies, unified fine thread UNF

12085

HSS

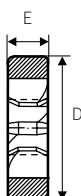
DIN 223 - EN 22568

UNF



HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each	
N°	2 x 64	16 x 5	1	12085N02	50,276	
	3 x 56	16 x 5	1	12085N03	45,974	
	4 x 48	20 x 5	1	12085N04	43,091	
	5 x 44	20 x 5	1	12085N05	40,223	
	6 x 40	20 x 5	1	12085N06	37,289	
	8 x 36	20 x 7	1	12085N08	37,289	
	10 x 32	20 x 7	1	12085N10	37,289	
	12 x 28	20 x 7	1	12085N12	37,289	
	UNF	1/4 x 28	20 x 7	1	120851/4	34,133
		5/16 x 24	25 x 9	1	120855/16	38,033
		3/8 x 24	30 x 11	1	120853/8	46,872
		7/16 x 20	30 x 11	1	120857/16	46,872
1/2 x 20		38 x 10	1	120851/2	54,433	
9/16 x 18		38 x 10	1	120859/16	59,389	
5/8 x 18		45 x 14	1	120855/8	78,256	
3/4 x 16		45 x 14	1	120853/4	82,140	
7/8 x 14		55 x 16	1	120857/8	110,016	
1" x 12		55 x 16	1	120851X12	113,745	
*1" x 14		55 x 16	1	120851X14	136,054	
1.1/8 x 12		65 x 18	1	120851.1/8	172,052	
1.1/4 x 12		65 x 18	1	120851.1/4	172,052	
1.3/8 x 12	65 x 18	1	120851.3/8	172,052		
1.1/2 x 12	65 x 18	1	1208561.1/2	386,401		
1.1/2 x 12	75 x 20	1	1208571.1/2	386,401		

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

* Filettatura UNS / UNS thread

**FILIERE TONDE IN HSS IMBOCCO CORRETTO,
FILETTATURA SINISTRA AMERICANA UNF A PASSO FINE ANSI B1.1**
Round dies, spiral point, unified coarse thread UNC

12086

HSS

DIN 223 - EN 22568

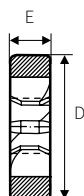
UNF

Sinistra
Left hand



HV=62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
N°	10 x 32	20 x 7	1	12086NR10	63,853
UNF	1/4 x 28	20 x 7	1	120861/4	52,222
	5/16 x 24	25 x 9	1	120865/16	61,917
	3/8 x 24	30 x 11	1	120863/8	73,450
	7/16 x 20	30 x 11	1	120867/16	73,450
	1/2 x 20	38 x 10	1	120861/2	116,064
	9/16 x 18	38 x 10	1	120869/16	116,064
	5/8 x 18	45 x 14	1	120865/8	146,960
	3/4 x 16	45 x 14	1	120863/4	146,960
	7/8 x 14	55 x 16	1	120867/8	212,763
	1" x 12	55 x 16	1	120861	212,763

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

**FILIERE TONDE IN HSS,
FILETTATURA AMERICANA UNEF A PASSO EXTRAFINE ANSI B1.1**
Round dies, unified extrafine thread UNEF

12079

HSS

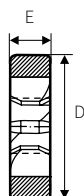
DIN 223 - EN 22568

UNEF



HV=62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
UNEF	1/4 x 32	20 x 7	1	120791/4	54,867
	3/8 x 32	30 x 11	1	120793/8	79,803
	1/2 x 28	38 x 10	1	120791/2	119,699
	9/16 x 24	38 x 10	1	120799/16	119,699
	5/8 x 24	45 x 14	1	120795/8	190,437
	3/4 x 20	45 x 14	1	120793/4	190,437
	7/8 x 20	55 x 16	1	120797/8	224,441
	1" x 20	55 x 16	1	120791	243,957
	1.1/8 x 18	65 x 18	1	120791.1/8	359,110

R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Olio
Oil

FILIERE TONDE IN HSS,
FILETTATURA METRICA PG PER TUBI DI CONDUZIONE ELETTRICA
Round dies, metric Pg thread for cables connections

12093

HSS

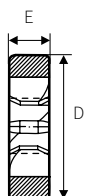
DIN 40434

Pg



HV = 62-63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum

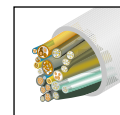


Olio
Oil



In esaurimento
To be discontinued

	Ø	DxE	pcs	cod.	€ cad/each
Pg	13,5 x 18	45 x 14	1	12093135	126,849
	21 x 16	65 x 18	1	1209321	232,680
	29 x 16	65 x 18	1	1209329	232,680
	36 x 16	90 x 22	1	1209336	508,804
	42 x 16	105 x 22	1	1209342	643,761
	48 x 16	105 x 22	1	1209348	643,761



FILIERE TONDE AL CV,
FILETTATURA METRICA ISO, PASSO GROSSO
C.V. round dies, metric coarse pitch

12001

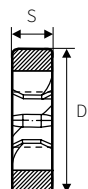
C.V.

UNI 4535 ≈ DIN 223

M



HRC = 60-61
Metrica passo grosso
Metric coarse pitch



Confezione
Packaging



$R \leq 600 \text{ N/mm}^2$

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Olio
Oil



15032



15030



Art. 12002 Self
Disponibile su richiesta
On demand

	\emptyset	DxS	pcs	cod.	€ cad/each
M	2 x 0,4	25,4 x 9	5	12001202X04	9,482
	3 x 0,5	25,4 x 9	5	12001203X05	6,748
	4 x 0,7	25,4 x 9	5	12001204X07	6,748
	5 x 0,8	25,4 x 9	5	12001205X08	5,714
	6 x 1	25,4 x 9	5	12001206X1	5,714
	6 x 1	38,1 x 14	5	12001306X1	5,856
	7 x 1	25,4 x 9	5	12001207X1	5,714
	8 x 1,25	25,4 x 9	5	12001208X125	5,890
	8 x 1,25	38,1 x 14	5	12001308X125	5,714
	9 x 1,25	25,4 x 9	5	12001209X125	5,714
	10 x 1,5	25,4 x 9	5	12001210X15	5,714
	10 x 1,5	38,1 x 14	5	12001310X15	8,179
	11 x 1,5	38,1 x 14	5	12001311X15	8,179
	12 x 1,75	25,4 x 9	5	12001212X175	5,714
	12 x 1,75	38,1 x 14	5	12001312X175	8,179
	14 x 2	38,1 x 14	5	12001314X2	8,179
	16 x 2	38,1 x 14	5	12001316X2	8,179
	16 x 2	50,8 x 16	3	12001516X2	9,457
	18 x 2,5	38,1 x 14	5	12001318X25	10,796
	18 x 2,5	50,8 x 16	3	12001518X25	15,490
	20 x 2,5	38,1 x 14	5	12001320X25	10,796
	20 x 2,5	50,8 x 16	3	12001520X25	15,984
	22 x 2,5	50,8 x 16	3	12001522X25	17,261
	24 x 3	50,8 x 16	3	12001524X3	17,566
	27 x 3	63,5 x 19	1	12001627X3	49,708
	30 x 3,5	63,5 x 19	1	12001630X35	49,708
	33 x 3,5	63,5 x 19	1	12001633X35	59,657
	36 x 4	63,5 x 19	1	12001636X4	59,657

FILIERE TONDE AL CV,
FILETTATURA METRICA ISO, PASSO FINE
C.V. round dies, metric fine

12005

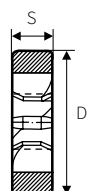
C.V.

UNI 4535 ≈ DIN 223

MF



HRC = 60-61
Metrica passo fine
Metric fine



Confezione
Packaging



R ≤ 600 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Olio
Oil

	Ø	DxS	pcs	cod.	€ cad/each
M	6 x 0,75	25,4 x 9	5	12005206X075	6,899
	7 x 0,75	25,4 x 9	5	12005207X075	6,899
	8 x 0,75	25,4 x 9	5	12005208X075	6,899
	8 x 1	25,4 x 9	5	12005208X1	6,899
	9 x 0,75	25,4 x 9	5	12005209X075	6,899
	9 x 1	25,4 x 9	5	12005209X1	6,899
	10 x 1,25	25,4 x 9	5	12005210X125	6,899
	12 x 1,5	25,4 x 9	5	12005212X15	6,899
	10 x 0,75	38,1 x 14	5	12005310X075	10,315
	10 x 1	38,1 x 14	5	12005310X1	10,315
	10 x 1,25	38,1 x 14	5	12005310X125	10,315
	11 x 0,75	38,1 x 14	5	12005311X075	10,315
	11 x 1	38,1 x 14	5	12005311X1	10,315
	11 x 1,25	38,1 x 14	5	12005311X125	10,315
	12 x 0,75	38,1 x 14	5	12005312X075	10,315
	12 x 1	38,1 x 14	5	12005312X1	10,315
	12 x 1,25	38,1 x 14	5	12005312X125	10,315
	12 x 1,5	38,1 x 14	5	12005312X15	10,315
	14 x 1	38,1 x 14	5	12005314X1	10,315
	14 x 1,25	38,1 x 14	5	12005314X125	10,315
	14 x 1,5	38,1 x 14	5	12005314X15	10,315
	16 x 1	38,1 x 14	5	12005316X1	10,315
	16 x 1,5	38,1 x 14	5	12005316X15	10,315
	18 x 1,5	38,1 x 14	5	12005318X15	10,315
	18 x 2	38,1 x 14	5	12005318X2	10,315
	18 x 1,5	50,8 x 16	3	12005518X15	20,243
	18 x 2	50,8 x 16	3	12005518X2	20,243
	20 x 1,5	50,8 x 16	3	12005520X15	20,816
	20 x 2	50,8 x 16	3	12005520X2	20,816
	22 x 1,5	50,8 x 16	3	12005522X15	21,393
22 x 2	50,8 x 16	3	12005522X2	21,393	
24 x 1,5	50,8 x 16	3	12005524X15	21,696	
24 x 2	50,8 x 16	3	12005524X2	21,696	
27 x 1,5	63,5 x 19	1	12005627X15	48,769	
27 x 2	63,5 x 19	1	12005627X2	48,769	
30 x 1,5	63,5 x 19	1	12005630X15	48,769	
30 x 2	63,5 x 19	1	12005630X2	48,769	
30 x 3	63,5 x 19	1	12005630X3	48,769	

FILIERE TONDE AL CV,
FILETTATURA GAS CILINDRICA PER TUBI BSP
Round dies, cylindrical BSP thread

12015

C.V. ≈ DIN 223 (EN 24231)

BSP (GAS)



	Ø	DxS	pcs	cod.	€ cad/each
G	1/8 x 28	38,1 x 14	5	1201531/8	8,743
	1/4 x 19	38,1 x 14	5	1201531/4	8,743
	3/8 x 19	38,1 x 14	5	1201533/8	8,743
	3/8 x 19	50,8 x 16	3	1201553/8	18,446
	1/2 x 14	50,8 x 16	3	1201551/2	18,446
	3/4 x 14	50,8 x 16	3	1201553/4	18,446
	1" x 11	63,5 x 19	1	1201561	39,996
	1.1/4 x 11	75 x 20	1	1201571.1/4	76,158
	1.1/2 x 11	75 x 20	1	1201571.1/2	76,158
	2" x 11	105 x 22	1	1201512	230,000

R ≤ 600 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



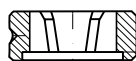
Olio
Oil

FILIERE TONDE AL CV,
FILETTATURA GAS CONICA PER TUBI BSPT (CON 1:16)
Round dies, BSPT taper thread (taper 1:16)

12017

C.V. ≈ DIN 223 (EN 24230)

BSPT - Conica



BSPT
Conicità 1:16
Taper 1:16



	Ø	DxS	pcs	cod.	€ cad/each
Rc	1/8 x 28	30 x 11	1	1201731/8	32,918
	1/4 x 19	38 x 14	1	1201731/4	32,918
	3/8 x 19	45 x 18	1	1201743/8	32,918
	1/2 x 14	45 x 18	1	1201741/2	59,312
	3/4 x 14	55 x 22	1	1201753/4	59,312
	1" x 11	65 x 25	1	1201761	72,585
	1.1/4 x 11	75 x 30	1	1201771.1/4	175,914
	1.1/2 x 11	90 x 27	1	1201791.1/2	175,914
	2" x 11	105 x 28	1	1201712	364,385

R ≤ 600 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Olio
Oil

FILIERE TONDE AL CV,
FILETTATURA INGLESE WHITWORTH A PASSO GROSSO BSW
Round dies, Whitworth thread

12010

C.V. ≈ DIN 223 (EN 22568)

BSW



	Ø		DxS	pcs	cod.	€ cad/each
BSW	1/8	x 40	25,4 x 9	5	1201021/8	8,250
	5/32	x 32	25,4 x 9	5	1201025/32	7,875
	3/16	x 24	25,4 x 9	5	1201023/16	7,875
	1/4	x 20	25,4 x 9	5	1201021/4	8,250
	5/16	x 18	25,4 x 9	5	1201025/16	8,250
	3/8	x 16	38,1 x 14	5	1201033/8	9,482
	7/16	x 14	38,1 x 14	5	1201037/16	9,482
	1/2	x 12	38,1 x 14	5	1201031/2	9,482
	9/16	x 12	38,1 x 14	5	1201039/16	9,482
	5/8	x 11	50,8 x 16	3	1201055/8	17,403
	3/4	x 10	50,8 x 16	3	1201053/4	17,403
	7/8	x 9	50,8 x 16	3	1201057/8	21,305
	1"	x 8	50,8 x 16	3	1201051	21,305
	1.1/8	x 7	63,5 x 19	1	1201061.1/8	51,010
	1.1/4	x 7	63,5 x 19	1	1201061.1/4	51,010
	1.3/8	x 6	63,5 x 19	1	1201061.3/8	51,010
	1.1/2	x 6	63,5 x 19	1	1201061.1/2	51,010
	1.3/4	x 5	90 x 36	1	1201091.3/4	220,842
	2"	x 4,5	90 x 36	1	1201092	220,842

R ≤ 600 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Olio
Oil

FILIERE TONDE AL CV,
FILETTATURA INGLESE WHITWORTH A PASSO FINE BSF
2 pcs hand taps, british standard fine

12012

C.V. ≈ DIN 223 (EN 22568)

BSF



	Ø		DxS	pcs	cod.	€ cad/each
BSF	3/16	x 32	25,4 x 9	5	1201223/16	8,250
	1/4	x 26	25,4 x 9	5	1201221/4	8,250
	5/16	x 22	25,4 x 9	5	1201225/16	8,250
	3/8	x 20	38,1 x 14	5	1201233/8	9,482
	7/16	x 18	38,1 x 14	5	1201237/16	9,482
	1/2	x 16	38,1 x 14	5	1201231/2	9,482
	9/16	x 16	38,1 x 14	5	1201239/16	9,482
	5/8	x 14	50,8 x 16	3	1201255/8	17,403
	3/4	x 12	50,8 x 16	3	1201253/4	17,403
	7/8	x 11	50,8 x 16	3	1201257/8	21,305
	1"	x 10	50,8 x 16	3	1201251	21,305

R ≤ 600 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



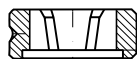
Olio
Oil

FILIERE TONDE AL CV,
FILETTATURA CONICA AMERICANA PER TUBI NPT ANSI B 2.1
Round dies, NPT taper thread

12032

C.V. ≈ DIN 223 (EN 22568)

NPT - Conica



NPT
Conicità 1:16
Taper 1:16



	Ø	DxS	pcs	cod.	€ cad/each
NPT	1/8 x 27	30 x 11	1	1203231/8	32,918
	1/4 x 18	38 x 14	1	1203231/4	32,918
	3/8 x 18	45 x 18	1	1203243/8	32,918
	1/2 x 14	45 x 18	1	1203241/2	59,312
	3/4 x 14	55 x 22	1	1203253/4	59,312
	1" x 11-1/2	65 x 25	1	1203261	72,512
	1.1/4 x 11-1/2	75 x 26	1	1203271.1/4	123,362
	1.1/2 x 11-1/2	90 x 27	1	1203291.1/2	123,362
	2" x 11-1/2	105 x 28	1	1203212	436,347

R ≤ 600 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Olio
Oil

FILIERE TONDE AL CV,
FILETTATURA AMERICANA A PASSO GROSSO UNC
Round dies, UNC coarse thread

12020

C.V. ≈ DIN 223 (EN 22568)

UNC



	Ø	DxS	pcs	cod.	€ cad/each
N°	5 x 40	25,4 x 9	5	12020N05	7,720
	6 x 32	25,4 x 9	5	12020N06	7,720
	8 x 32	25,4 x 9	5	12020N08	7,720
	10 x 24	25,4 x 9	5	12020N10	7,720
	12 x 24	25,4 x 9	5	12020N12	7,720
UNC	1/4 x 20	25,4 x 9	5	1202021/4	7,720
	5/16 x 18	25,4 x 9	5	1202025/16	7,720
	3/8 x 16	38,1 x 14	5	1202033/8	10,715
	7/16 x 14	38,1 x 14	5	1202037/16	10,715
	1/2 x 13	38,1 x 14	5	1202031/2	10,715
	9/16 x 12	38,1 x 14	5	1202039/16	10,715
	5/8 x 11	50,8 x 16	3	1202055/8	23,470
	3/4 x 10	50,8 x 16	3	1202053/4	23,470
	7/8 x 9	50,8 x 16	3	1202057/8	24,772
	1" x 8	50,8 x 16	3	1202051	24,772
	1.1/8 x 7	63,5 x 19	1	1202061.1/8	66,945
	1.1/4 x 7	63,5 x 19	1	1202061.1/4	66,945
1.3/8 x 6	63,5 x 19	1	1202061.3/8	66,945	
1.1/2 x 6	63,5 x 19	1	1202061.1/2	66,945	

R ≤ 600 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Olio
Oil

FILIERE TONDE AL CV,
FILETTATURA AMERICANA A PASSO FINE UNF
Round dies, UNC coarse thread

12025

C.V. = **DIN 223 (EN 22568)**

UNF



	Ø	DxS	pcs	cod.	€ cad/each
N°	5 x 44	25,4 x 9	5	12025N05	8,109
	6 x 40	25,4 x 9	5	12025N06	8,109
	8 x 36	25,4 x 9	5	12025N08	8,109
	10 x 32	25,4 x 9	5	12025N10	8,109
	12 x 28	25,4 x 9	5	12025N12	8,109
UNF	1/4 x 28	25,4 x 9	5	1202521/4	8,109
	5/16 x 24	25,4 x 9	5	1202525/16	8,109
	3/8 x 24	38,1 x 14	5	1202533/8	11,500
	7/16 x 20	38,1 x 14	5	1202537/16	11,500
	1/2 x 20	38,1 x 14	5	1202531/2	11,500
	9/16 x 18	38,1 x 14	5	1202539/16	11,500
	5/8 x 18	50,8 x 16	3	1202555/8	24,889
	3/4 x 16	50,8 x 16	3	1202553/4	24,889
	7/8 x 14	50,8 x 16	3	1202557/8	26,271
	1" x 12	50,8 x 16	3	1202551	26,271
	1.1/8 x 12	63,5 x 19	1	1202561.1/8	69,328
	1.1/4 x 12	63,5 x 19	1	1202561.1/4	69,328
	1.3/8 x 12	63,5 x 19	1	1202561.3/8	69,328
	1.1/2 x 12	63,5 x 19	1	1202561.1/2	69,328

R ≤ 600 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum



Leghe leggere
Light alloys



Olio
Oil





ACCESSORI PER UTENSILI A FILETTARE

THREADING TOOLS ACCESSORIES

GIRAMASCHI ESTENSIBILI, MODELLO AMERICANO

Adjustable tap wrenches

15001

DIN 1814

Lega Leggera
Zinc die-cast



Gr. N.	M	Per maschi / for taps		L	cod.	€ cad/each
		BSW-UNC-UNF	BSP-NPT			
0	1 ÷ 8	1/16 ÷ 1/4		130	1500100	12,086
1	1 ÷ 10	1/16 ÷ 3/8	1/8	180	1500101	12,973
1.1/2	1 ÷ 12	1/16 ÷ 1/2	1/8	180	1500101.1/2	14,954
2	4 ÷ 12	5/32 ÷ 1/2	1/8	280	1500102	20,875
3	5 ÷ 20	7/32 ÷ 3/4	1/8 ÷ 1/2	380	1500103	32,152
4	11 ÷ 27	7/16 ÷ 1"	1/4 ÷ 3/4	500	1500104	50,771
5	13 ÷ 32	1/2 ÷ 1.1/4	1/4 ÷ 1"	700	1500105	104,358
*6	18 ÷ 42	3/4 ÷ 1.1/2	1/2 ÷ 1.1/4	780	1500106	228,169
*7	25 ÷ 52	1" ÷ 2.1/8	3/4 ÷ 2.1/4	800	1500107	248,196
*8	25 ÷ 64	1" ÷ 2:1/2	3/4 ÷ 3"	1200	1500108	557,031

* corpo in acciaio
* steel



Art. 15002 Self
Disponibile su richiesta
On demand

15003

DIN 1814

Acciaio
Steel



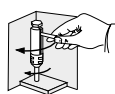
Gr. N.	M	Per maschi / for taps		L	cod.	€ cad/each
		BSW-UNC-UNF	BSP-NPT			
0	1 ÷ 8	1/16 ÷ 1/4		170	1500300	19,740
1	1 ÷ 10	1/16 ÷ 3/8	1/8	200	1500301	21,149
1.1/2	1 ÷ 12	1/16 ÷ 1/2	1/8	200	1500301.1/2	23,977
2	4 ÷ 12	5/32 ÷ 1/2	1/8	260	1500302	31,031
3	5 ÷ 20	7/32 ÷ 3/4	1/8 ÷ 1/2	345	1500303	50,771
4	11 ÷ 27	7/16 ÷ 1"	1/4 ÷ 3/4	430	1500304	81,789
5	13 ÷ 32	1/2 ÷ 1.1/4	1/4 ÷ 1"	770	1500305	129,743
6	18 ÷ 42	3/4 ÷ 1.1/2	1/2 ÷ 1.1/4	870	1500306	241,207
7	25 ÷ 52	1" ÷ 2.1/8	3/4 ÷ 2.1/4	1000	1500307	258,157
8	25 ÷ 64	1" ÷ 2:1/2	3/4 ÷ 3"	1200	1500308	557,031

GIRAMASCHI A CRICCHETTO REVERSIBILE

Tap holder with ratchet

15010

Serie corta
Short serie



Acciaio
Steel



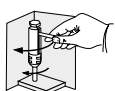
Gr. N.	Per maschi / for taps M	Per maschi / for taps BSW	L	pcs.	cod.	€ cad/each
1	3 ÷ 10	1/8 ÷ 3/8	85	1	1501001	18,931
2	5 ÷ 12	7/32 ÷ 1/2	100	1	1501002	22,804



Art. 15002 Self
Disponibile su richiesta
On demand

15011

Serie lunga
Long serie



Acciaio
Steel



Gr. N.	Per maschi / for taps M	Per maschi / for taps BSW	L	pcs.	cod.	€ cad/each
1	3 ÷ 10	1/8 ÷ 3/8	250	1	1501101	27,133
2	5 ÷ 12	7/32 ÷ 1/2	300	1	1501102	34,148

Griffe per
Jaws for



	cod.	€ cad/each
1501001 - 1501101	1501110	1,970
1501002 - 1501102	1501112	2,464

GIRAMASCHI A MANDRINO TIPO GOODEL

Goodel tap holder without ratchet

15005

Serie corta
Short serie



Gr. N.	Per maschi / for taps M	Per maschi / for taps BSW-	L	pcs.	cod.	€ cad/each
1	3 ÷ 5	1/8 ÷ 3/16	62	1	1500501	8,266
2	6 ÷ 8	1/4 ÷ 3/8	78	1	1500502	10,509
3	9 ÷ 10	3/8	102	1	1500503	14,003
4	10 ÷ 12	3/8 ÷ 1/2	102	1	1500504	20,588



Art. 15007 Self
Disponibile su richiesta
On demand

15006

Serie lunga
Long serie



Gr. N.	Per maschi / for taps M	Per maschi / for taps BSW-	L	pcs.	cod.	€ cad/each
1	3 ÷ 5	1/8 ÷ 3/16	150	1	1500601	14,447
2	6 ÷ 8	1/4 ÷ 3/8	150	1	1500602	17,210
3	9 ÷ 10	3/8	150	1	1500603	23,624
4	10 ÷ 12	3/8 ÷ 1/2	150	1	1500604	33,848



Art. 15007 Self
Disponibile su richiesta
On demand

GIRAMASCHI FISSI A SFERA

Ball tap wrenches

15013



Gr. N.	Per maschi / for taps		L	cod.	€ cad/each
	M				
0	1 ÷ 4		200	1501300	15,215
1	3,5 ÷ 8		200	1501301	15,215
3	5 ÷ 12		200	1501303	28,200
4	10 ÷ 16		200	1501304	37,224
5	12 ÷ 20		200	1501305	44,174
6	18 ÷ 27		200	1501306	87,185

PROLUNGA PER MASCHI

Tap extension

10098

DIN 377



Quadro Square mm	L	Per maschi for taps DIN 352	cod.	€ cad/each	Quadro Square mm	L	Per maschi for taps DIN 352	cod.	€ cad/each
2.4	70		10098024	7,757	11.0	150	M 18	10098110	29,506
2.7	80	M 3	10098027	7,757	12.0	155	M 20	10098120	38,503
3.0	90	M 3.5	10098030	7,757	13.0	165		10098130	43,443
3.4	95	M 4	10098034	7,757	14.5	175	M 22-24	10098145	52,764
3.8	100		10098038	9,296	16.0	180	M 27	10098160	55,856
4.3	105		10098043	11,174	18.0	200	M 30	10098180	65,178
4.9	110	M 4.5-8	10098049	8,696	20.0	220	M 33	10098200	83,810
5.5	115	M 9-10	10098055	9,934	22.0	220	M 36	10098220	118,452
6.2	120	M 11	10098062	10,873	24.0	235	M39-42	10098240	152,299
7.0	125	M 12	10098070	13,352	26.0	250		10098260	194,608
8.0	125		10098080	16,766	29.0	265	M45-48	10098290	229,864
9.0	130	M 14-16	10098090	18,304	32.0	285	M52	10098320	322,943

PORTAFILIERE IN ACCIAIO PER FILIERE TONDE

Steel die cast round dies stock

15037

DIN 225 (EN 22568) ACCIAIO

Steel

Per filiere HSS e HSS-CO

For HSS and HSS-CO round dies



Gr.	M	BSW-BSP	L	pcs.	cod.	€ cad/each
16 x 5	M 1 ÷ 2,6	W 1/16 ÷ 3/32	160	1	1503716X5	16,923
20 x 5	M 3 ÷ 4	W 1/8 ÷ 5/32	190	1	1503720X5	20,313
20 x 7	M 4,5 ÷ 6	W 3/16 ÷ 1/4	190	1	1503720X7	20,313
25 x 9	M 7 ÷ 9	W 5/16 ÷	215	1	1503725X9	23,690
30 x 11	M 10 ÷ 11	W 3/8 ÷ 7/16	250	1	1503730X11	23,690
38 x 10	MF 12 ÷ 14	G 1/8 ÷ 1/4	310	1	1503738X10	27,080
38 x 14	M 12 ÷ 14	W 1/2 ÷ 9/16	310	1	1503738X14	27,080
45 x 14	MF 16 ÷ 20	G 3/8 ÷ 1/2	445	1	1503745X14	35,542
45 x 18	M 16 ÷ 20	W 5/8 ÷ 13/16	445	1	1503745X18	35,542
55 x 16	MF 22 ÷ 26	G 5/8 ÷ 3/4	495	1	1503755X16	44,004
55 x 22	M 22 ÷ 24	W 7/8 ÷ 1"	495	1	1503755X22	44,004
65 x 18	MF 27 ÷ 35	G 7/8 ÷ 1"	550	1	1503765X18	79,533
65 x 25	M 27 ÷ 36	W 1.1/8 ÷ 1"3/8	550	1	1503765X25	79,533
75 x 20	MF 38 ÷ 42	G 1.1/8 ÷ 1"1/4	735	1	1503775X20	150,474
75 x 30	M 39 ÷ 42	W 1.1/2 ÷ 1"5/8	735	1	1503775X30	150,474
90 x 22	MF 45 ÷ 52	G 1.3/8 ÷ 1"3/4	900	1	1503790X22	280,922
90 x 36	M 45 ÷ 52	W 1.3/4 ÷ 2"	900	1	1503790X36	280,922
105 x 22	MF 54 ÷ 65	G 2" ÷ 2"1/4	980	1	15037105X22	428,775
105 x 36	M 56 ÷ 64	W 2" ÷ 2"1/4	980	1	15037105X36	428,775
120 x 22	MF 64 ÷ 71	G 2.1/4 ÷ 2.3/4	960	1	15037120X22	1.108,901
120 x 36	M 64 ÷ 71	BSW 2.1/2 ÷ 2.3/4	960	1	15037120X36	1.108,901
130 x 25		G 3"	960	1	15037130X25	1.542,604
130 x 36			960	1	15037130X36	1.542,604
140 x 22			980	1	15037140X22	1.936,879
150 x 25		G 3.1/2	1000	1	15037150X25	2.203,016
160 x 25		G 4"	1000	1	15037160X25	3.021,138

15032

DIN 225 (EN 22568) ACCIAIO

Steel

Per filiere al CV

For CV round dies



Gr. N.	Ø mm	Ø pollici / inches	L mm	pcs.	cod.	€ cad/each
1	25,4 x 9,5	1" x 3/8	210	1	1503201	24,681
2	38,1 x 12,7	1"1/2 x 1/2	300	1	1503202	29,961
3	50,8 x 15,9	2" x 5/8	490	1	1503203	45,829
4	63,5 x 19	2.1/2 x 3/4	520	1	1503204	78,230
5	76,2 x 22	3" x 7/8	700	1	1503205	149,940
6	88,9 x 25,4	3.1/2 x 1"	950	1	1503206	282,929
7	101,6 x 25,4	4" x 1"	890	1	1503207	852,700

PORTAFILIERE IN LEGA LEGGERA PER FILIERE TONDE

Zinc die cast round dies stock

15035

DIN 225 (EN 22568) LEGA LEGGERA

Zinc die-cast

Per filiere HSS e HSS-CO

For HSS and HSS-CO round dies



Gr.	M	BSW-BSP	L	pcs.	cod.	€ cad/each
16 x 5	M 1 ÷ 2,6	W 1/16 ÷ 3/32	160	1	1503516X5	8,318
20 x 5	M 3 ÷ 4	W 1/8 ÷ 5/32	185	1	1503520X5	8,749
20 x 7	M 4,5 ÷ 6	W 3/16 ÷ 1/4	185	1	1503520X7	8,749
25 x 9	M 7 ÷ 9	W 5/16 ÷	215	1	1503525X9	9,453
30 x 11	M 10 ÷ 11	W 3/8 ÷ 7/16	265	1	1503530X11	14,669
38 x 10	MF 12 ÷ 14	G 1/8 ÷ 1/4	315	1	1503538X10	16,220
38 x 14	M 12 ÷ 14	W 1/2 ÷ 9/16	315	1	1503538X14	16,220
45 x 14	MF 16 ÷ 20	G 3/8 ÷ 1/2	450	1	1503545X14	25,673
45 x 18	M 16 ÷ 20	W 5/8 ÷ 13/16	450	1	1503545X18	25,673
55 x 16	MF 22 ÷ 26	G 5/8 ÷ 3/4	560	1	1503555X16	39,492
55 x 22	M 22 ÷ 24	W 7/8 ÷ 1"	560	1	1503555X22	39,492
65 x 18	MF 27 ÷ 35	G 7/8 ÷ 1"	630	1	1503565X18	56,690
65 x 25	M 27 ÷ 36	W 1"1/8 ÷ 1"3/8	630	1	1503565X25	56,690
*75 x 20	MF 38 ÷ 42	G 1"1/8 ÷ 1"1/4	710	1	1503575X20	135,377
*75 x 30	M 39 ÷ 42	W 1"1/2 ÷ 1"5/8	710	1	1503575X30	145,127
*90 x 22	MF 45 ÷ 52	G 1"3/8 ÷ 1"3/4	920	1	1503590X22	269,995
*90 x 36	M 45 ÷ 52	W 1"3/4 ÷ 2"	920	1	1503590X36	269,995

* acciaio

* steel

15030

DIN 225 (EN 22568) LEGA LEGGERA

Zinc die-cast

Per filiere al CV

For CV round dies



Gr. N.	Ø mm	Ø pollici / inches	L mm	pcs.	cod.	€ cad/each
0	20,6 x 6,35	13/16 x 1/4	185	1	1503000	9,453
1	25,4 x 9,5	1" x 3/8	215	1	1503001	9,869
2/A	33,4 x 11,1	1.5/16 x 7/16	265	1	1503002/A	17,210
2	38,1 x 12,7	1.1/2 x 1/2	310	1	1503002	17,210
3	50,8 x 15,9	2" x 5/8	485	1	1503003	35,960
4	63,5 x 19	2.1/2 x 3/4	630	1	1503004	55,700
*5	76,2 x 22	3" x 7/8	700	1	1503005	135,377
*6	88,9 x 25,4	3.1/2 x 1"	940	1	1503006	247,493
*7	101,6 x 25,4	4" x 1"	980	1	1503007	775,775

* acciaio

* steel



Art. 15031 Inches Self
Disponibile su richiesta
On demand

ESPOSITORE MAGAZZINO GIRAUTENSILI

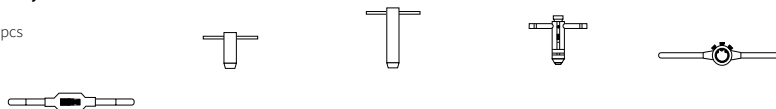
Tool holders display

17001



Art. 17001100
€ 692,105

40 pcs

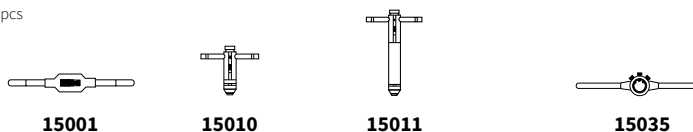


15001	15005	15006	15010	15030
GR. 1 6 pcs	GR. 1 3 pcs	GR. 1 2 pcs	GR. 1 2 pcs	Ø 25,4 6 pcs
GR. 2 6 pcs	GR. 2 2 pcs	GR. 2 2 pcs	GR. 2 2 pcs	Ø 38,1 4 pcs
GR. 3 3 pcs				Ø 50,8 2 pcs



Art. 17001104
€ 994,205

51 pcs

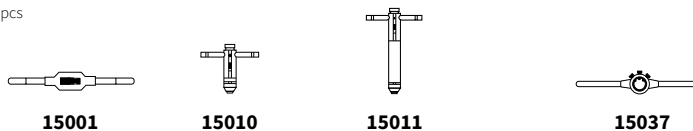


15001	15010	15011	15035
GR. 1 6 pcs	GR. 1 2 pcs	GR. 1 2 pcs	16x5 2 pcs
GR. 2 5 pcs	GR. 2 2 pcs	GR. 2 2 pcs	20x5 2 pcs
GR. 3 2 pcs			20x7 2 pcs
GR. 4 1 pc			25x9 6 pcs
			30x11 6 pcs
			38x10 2 pcs
			38x14 4 pcs
			45x14 2 pcs
			45x18 1 pc
			55x16 1 pc
			55x22 1 pc



Art. 17001108
€ 1.508,927

51 pcs



15001	15010	15011	15037
GR. 1 6 pcs	GR. 1 2 pcs	GR. 1 2 pcs	16x5 2 pcs
GR. 2 5 pcs	GR. 2 2 pcs	GR. 2 2 pcs	20x5 2 pcs
GR. 3 2 pcs			20x7 2 pcs
GR. 4 1 pc			25x9 6 pcs
			30x11 6 pcs
			38x10 2 pcs
			38x14 4 pcs
			45x14 2 pcs
			45x18 1 pc
			55x16 1 pc
			55x22 1 pc

ESTRATTORI DI VITI E PRIGIONIERI IN ACCIAIO LEGATO

Screw extractors

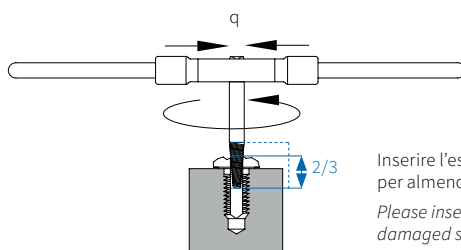
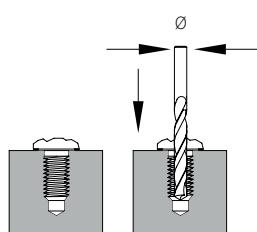
10065

DIN 225 (EN 22568) ACCIAIO

Steel

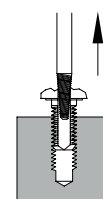


Gr. N.	viti screws	Ø	q	giramaschi n. tap.wrench n.	pcs.	cod.	€ cad/each
1	M 3 ÷ 6	3 ÷ 4	3	0-1-1.1/2	1	1006501	1,724
2	M 6 ÷ 8	4 ÷ 4,5	3,6	0-1-1.1/2	1	1006502	1,724
3	M 8 ÷ 11	5,5 ÷ 6	5,5	1-1.1/2	1	1006503	2,031
4	M 11 ÷ 14	6 ÷ 6,5	6,3	2-3-4	1	1006504	2,465
5	M 14 ÷ 18	9 ÷ 10	8,6	3-4-5	1	1006505	3,263
6	M 18 ÷ 25	12 ÷ 13	12	3-4-5-6	1	1006506	4,540
7	M 25 ÷ 35	14 ÷ 16	15	4-5-6	1	1006507	9,072
8	M 35 ÷ 50	20 ÷ 22	19	4-5-6	1	1006508	12,485



Inserire l'estrattore nella vite danneggiata per almeno 2/3 della sua parte utile

Please insert the screw extractor inside the damaged screw up to 2/3 of the working part



SERIE DI ESTRATTORI IN ASTUCCIO DI PLASTICA

Screw extractors sets in plastic cases

10067



composizione description	pcs.	cod.	€ cad/each
5 pcs Ø 1÷5	1	10067101	10,491
6 pcs Ø 1÷6	1	10067102	15,073
8 pcs Ø 1÷8	1	10067103	34,970

CONTAFILETTI PER FILETTI METRICI ISO 60° - WH 55°

Screw pitch gauge ISO 60°-Wh 55°

41003



composizione description	pcs.	cod.	€ cad/each
52 pcs M 0,25 ÷ 6 Wh 62 ÷ 4	1	410031251	19,034
12 pcs M 0,5 ÷ 1,75	1	410031261	9,891

ASSORTIMENTI A FILETTARE IN HSS

HSS THREADING SETS

ASSORTIMENTI A FILETTARE IN HSS, FILETTATURA METRICA, IN ASTUCCI DI METALLO ED ABS

Threading sets, metric thread, in metal and plastic boxes

17020408

17020414

17020401
17020409

M



Abs



Abs



Abs

cod.	€ cad/each	Composizione Description
17020408 HSS-CO	198,279	
17020414 HSS-G TIN	281,344	 DIN 352 - 3 pcs M 3 - 4 - 5 - 6 8 - 10 - 12
17020401 HSS-G	131,294	
17020409 HSS-G	194,254	

Sinistra
Left hand



17020407

17020415

17020402
17020410

M



Metal



Metal



Metal

cod.	€ cad/each	Composizione Description
17020407 HSS-CO	250,526	 DIN 352 - 3 pcs M 3 - 4 - 5 - 6 - 8 - 10 - 12
17020415 HSS-G TIN	321,523	 1.1/2
17020402 HSS-G	167,462	 2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25
17020410 HSS-G	241,148	

Sinistra
Left hand



17020404

M



Abs

cod.	€ cad/each	Composizione Description
17020404 HSS-G	89,531	 DIN 352 - 1 pcs M 3 - 4 - 5 - 6 - 8 - 10 - 12 1.1/2 2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA,
FILETTATURA METRICA, IN CASSETTA METALLICA
Hss threading sets for industry, metric thread, in metal boxes

17020513



Misure/Dimensions:
265x118x35 mm

17020501



M

cod.	€ cad/each	Composizione Description
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17020513
HSS-G TiN

388,509

DIN 352 - 3 pcs
M 3 - 4 - 5 - 6 - 8 - 10 - 12



Ø 25



1.1/2



25x9

17020501
HSS-G

214,358

17020514



Misure/Dimensions:
496x334x65 mm

17020500



M

cod.	€ cad/each	Composizione Description
------	---------------	-----------------------------

17020514
HSS-G TiN

602,866

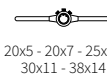
DIN 352 - 3 pcs



N° 1 - 2



DIN223



20x5 - 20x7 - 25x9 -
30x11 - 38x14

M3 - 4 - 5 - 6 -
8 - 10 - 12

Ø 2,5 - 3,3 - 4,2 - 5 -
6,8 - 8,5 - 10,25



N° 1

17020500
HSS-G

368,418

17020506



Misure/Dimensions:
496x334x65 mm

17020507



Sinistra
Left hand



M

cod.	€ cad/each	Composizione Description
------	---------------	-----------------------------

17020506
HSS-Co

448,806

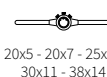
DIN 352 - 3 pcs



N° 1 - 2



DIN223



20x5 - 20x7 - 25x9 -
30x11 - 38x14

M3 - 4 - 5 - 6 -
8 - 10 - 12

Ø 2,5 - 3,3 - 4,2 - 5 -
6,8 - 8,5 - 10,25



N° 1

17020507
HSS-G

488,986

**ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA,
FILETTATURA METRICA, IN CASSETTA METALLICA**
Hss threading sets for industry, metric thread, in metal boxes

17020508

17020518

17020503

17020509

M

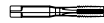






Misure/Dimensions:
510x237x50 mm



Sinistra
Left hand



cod.	€ cad/each	Composizione Description	
17020508 HSS-CO	1.058,360	DIN 352 - 3 pcs 	N° 1 - 3 
17020518 HSS-G TIN	1.312,912	DIN 223 	20x5 - 20x7 - 25x9 30x11 - 38x14 45x18 
17020503 HSS-G	836,977	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20	N° 1 - N° 2 
17020509 HSS-G	1.098,554		

**ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA,
FILETTATURA METRICA, IN VALIGETTA DI LEGNO**
Hss threading sets for industry, metric thread, in wood boxes

17020544

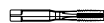







17020504

17020505

M



Valigetta in metallo
Metal box

cod.	€ cad/each	Composizione Description	
17020544 HSS-CO	1.931,854	DIN 352 - 3 pcs 	N° 1 - 4 
Misure/Dimensions: 540x338x87 mm		DIN 223 	20x5 - 20x7 - 25x9 30x11 - 38x14 45x18 - 55x22 
17020504 HSS-G	1.600,943	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24	
Misure/Dimensions: 540x338x87 mm			
17020505 HSS-G	3.268,872	DIN 352 - 3 pcs 	N° 1 - 3 - 5 
Misure/Dimensions: 885x380x90 mm		DIN 223 	20x7 - 25x9 - 30x11 38x14 - 45x18 55x22 - 65x25 

**ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA,
FILETTATURA METRICA PASSO GROSSO E FINE, IN CASSETTA DI LEGNO**
Hss threading sets for industry, metric coarse and fine thread, in wood box

M+MF









17025513

17025512

17025511



Legno
Wood

cod.	€ cad/each	Composizione Description
17025513 HSS-G	796,767	 N° 1 - 3  M 3 pcs MF 2 pcs 25x9 38x14 M 4x0,7 - 5x0,8 6x1 - 8x1 - 8x1,25 10x1,25 - 10x1,5 12x1,25 - 12x1,5 12x1,75 - 14x1,5 14x2  N° 1 - 3  M 3 pcs MF 2 pcs 20x7 - 25x9 30x10 - 38x14 45x18 M 3x0,5 - 4x0,7 5x0,8 - 6x1 - 7x1 8x1 - 8x1,25 10x1,25 - 10x1,5 12x1,25 - 12x1,5 12x1,75 - 14x1,25 14x1,5 - 14x2 16x1,5 - 16x2 Misure/Dimensions: 583x300x55 mm
17025512 HSS-G	1.262,138	 N° 1 - 3  M 3 pcs MF 2 pcs 25x9 38x14 M 2x0,4 - 3x0,5 4x0,7 - 5x0,8 - 6x1 7x1 - 8x1 - 8x1,25 10x1 - 10x1,25 10x1,5 - 12x1,25 12x1,5 - 12x1,75 14x1,25 - 14x1,5 14x2 - 16x1,5 16x2 - 18x1,5 Misure/Dimensions: 640x400x55 mm
17025511 HSS-G	1.325,595	 N° 1  M 3 pcs MF 2 pcs 25x9 38x14 20 passi 20 thread Misure/Dimensions: 640x400x55 mm

**ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA,
FILETTATURA METRICA PASSO FINE, IN CASSETTA METALLICA**
Hss threading sets for industry, metric fine thread, in metal box







17020524

17020510

17020511



Metallo
Metal

cod.	€ cad/each	Composizione Description
17020524 HSS-G	823,911	 N° 1 - 3  2 pcs MF 3x0,35 - 4x0,5 5x0,75 - 6x0,75 - 8x1 10x1,25 - 12x1,5 14x1,5 - 16x1,5 18x1,5 - 20x1,5 Misure/Dimensions: 510x237x50 mm
17020510 HSS-G	1.473,674	 N° 1 - 3  2 pcs MF 6x0,75 - 8x0,75 8x1 - 10x1 - 12x1 12x1,5 - 14x1,25 14x1,5 - 16x1,5 18x1,5 - 20x1,5 Misure/Dimensions: 510x237x50 mm
17020511 HSS-G	1.982,763	 N° 1 - 4  2 pcs MF 6x0,7 - 8x0,75 8x1 - 10x1-12x1 12x1,5 - 14x1,25 14x1,5 - 16x1,5 18x1,5 - 20x1,5 22x1,5 - 24x1,5 Misure/Dimensions: 510x237x50 mm

ASSORTIMENTI A FILETTARE IN HSS PER GARAGE TIPO FIAT, FILETTATURA METRICA PASSO GROSSO E FINE, IN CASSETTA DI LEGNO

Hss threading sets for automotive, metric coarse and fine thread, in wood box

SPECIALE PER GARAGE
SPECIAL FOR AUTOMOTIVE




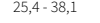















M+MF

17012600



FIAT HSS

Confezione
Packaging

cod.	€ cad/each	Composizione Description
17012600 HSS-G	1.086,801	2 pcs  25,4 (14) 38,1 (21)
		N° 1 - 3 
		2 x 0,4  11 x 0,75
		3 x 0,5  11 x 1
		4 x 0,7  11 x 1,25
		5 x 0,8  11 x 1,5
		6 x 0,75  12 x 0,75
		6 x 1  12 x 1
		7 x 0,75  12 x 1,25
		7 x 1  12 x 1,5
		8 x 0,75  12 x 1,75
		8 x 1  14 x 1
		8 x 1,25  14 x 1,25
		9 x 0,75  14 x 1,5
9 x 1  14 x 2		
9 x 1,25  16 x 1		
10 x 0,75  16 x 1,5		
10 x 1  16 x 2		
10 x 1,25  18 x 1,5		
10 x 1,5		

Misure/Dimensions:
500x340x70 mm
Kg. 7,9

Per generare e ravvivare i filetti di:
To make and renew threads of:

FIAT, ALFA ROMEO, LANCIA, VOLKSWAGEN, BMW,
MERCEDES, FORD, OPEL G.M., PEUGEOT, RENAULT,
VOLVO, CITROEN, TOYOTA, NISSAN, HONDA, ETC.



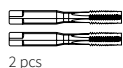
Art. 10097
Ricambio
Spare part



Art. 12057
Ricambio
Spare part

10097

HSS



2 pcs

	Ø	cod.	€ cad/each
M	2 x 0,4	1009702X04	7,070
	3 x 0,5	1009703X05	6,324
	4 x 0,7	1009704X07	6,324
	5 x 0,8	1009705X08	6,324
	6 x 0,75	1009706X075	6,324
	6 x 1	1009706X1	6,324
	7 x 0,75	1009707X075	7,615
	7 x 1	1009707X1	7,615
	8 x 0,75	1009708X075	9,337
	8 x 1	1009708X1	9,337
	8 x 1,25	1009708X125	9,337
	9 x 0,75	1009709X075	10,398
	9 x 1	1009709X1	10,398
	9 x 1,25	1009709X125	10,398
	10 x 0,75	1009710X075	11,387
	10 x 1	1009710X1	11,387
	10 x 1,25	1009710X125	11,387
	10 x 1,5	1009710X15	11,387
	11 x 0,75	1009711X075	15,963
	11 x 1	1009711X1	15,963
	11 x 1,25	1009711X125	15,963
	11 x 1,5	1009711X15	15,963
	12 x 0,75	1009712X075	16,824
	12 x 1	1009712X1	16,824
	12 x 1,25	1009712X125	16,824
	12 x 1,5	1009712X15	16,824
	12 x 1,75	1009712X175	16,824
	14 x 1	1009714X1	21,971
	14 x 1,25	1009714X125	21,971
	14 x 1,5	1009714X15	21,971
	14 x 2	1009714X2	21,971
	16 x 1	1009716X1	23,248
	16 x 1,5	1009716X15	23,248
	16 x 2	1009716X2	23,248
	18 x 1,5	1009718X15	32,743

12057

HSS



	Ø	cod.	€ cad/each
M	2 x 0,4	1205702X04	7,533
	3 x 0,5	1205703X05	7,533
	4 x 0,7	1205704X07	7,533
	5 x 0,8	1205705X08	7,533
	6 x 0,75	1205706X075	7,533
	6 x 1	1205706X1	7,533
	7 x 0,75	1205707X075	7,533
	7 x 1	1205707X1	7,533
	8 x 0,75	1205708X075	7,533
	8 x 1	1205708X1	7,533
	8 x 1,25	1205708X125	7,533
	9 x 0,75	1205709X075	7,533
	9 x 1	1205709X1	7,533
	9 x 1,25	1205709X125	7,533
	10 x 0,75	1205710X075	13,717
	10 x 1	1205710X1	13,717
	10 x 1,25	1205710X125	13,717
	10 x 1,5	1205710X15	13,717
	11 x 0,75	1205711X075	13,717
	11 x 1	1205711X1	13,717
	11 x 1,25	1205711X125	13,717
	11 x 1,5	1205711X15	13,717
	12 x 0,75	1205712X075	13,717
	12 x 1	1205712X1	13,717
	12 x 1,25	1205712X125	13,717
	12 x 1,5	1205712X15	13,717
	12 x 1,75	1205712X175	13,717
	14 x 1	1205714X1	13,717
	14 x 1,25	1205714X125	13,717
	14 x 1,5	1205714X15	13,717
	14 x 2	1205714X2	13,717
	16 x 1	1205716X1	13,717
	16 x 1,5	1205716X15	13,717
	16 x 2	1205716X2	13,717
	18 x 1,5	1205718X15	13,717

ASSORTIMENTI
SETS

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA,
FILETTATURA GAS PER TUBI, IN CASSETTA DI LEGNO
Hss threading sets for industry, BSP nad BSPT thread, in wood boxes

17025615

17025614

17025616

BSP

17025617

17025618

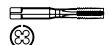
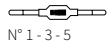
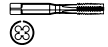
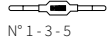


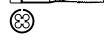


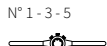
Legno
Wood



Valigetta in metallo
Metal box

Sinistra
Left hand



cod.	€ cad/each	Composizione Description
17025615 HSS-G	1.621,745	  N° 1 - 3 - 5 2 pcs 30x11 - 38x10 - 1/8 - 1/4 - 3/8 45x14 - 55x16 1/2 - 3/4 - 1" 65x18
17025614 HSS-G	1.826,224	  N° 1 - 3 - 5 2 pcs 30x11 - 38x10 - 1/8 - 1/4 - 3/8 - 1/2 45x14 - 55x16 5/8 - 3/4 - 7/8 - 1" 65x18
17025616 HSS-G	3.455,023	  N° 2 - 4 - 7 2 pcs 38x10 - 45x14 1/4 - 3/8 - 1/2 55x16 - 65x18 3/4 - 1" - 1.1/4 - 1.1/2 75x20 - 90x22
17025617 HSS-Co	1.861,480	  N° 1 - 3 - 5 2 pcs 30x11 - 38x10 - 1/8 - 1/4 - 3/8 45x14 - 55x16 1/2 - 3/4 - 1" 65x18
17025618 HSS-G	2.397,363	  N° 1 - 3 - 5 2 pcs 30x11 - 38x10 - 1/8 - 1/4 - 3/8 45x14 - 55x16 1/2 - 3/4 - 1" 65x18


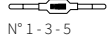

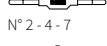
17025628

17025629

BSPT

Legno
Wood



cod.	€ cad/each	Composizione Description
17025628 HSS-G	1.861,480	  N° 1 - 3 - 5 1 pcs 30x11 - 38x10 - 1/8 - 1/4 - 3/8 45x14 - 55x16 1/2 - 3/4 - 1" 65x18
17025629 HSS-G	4.512,683	  N° 2 - 4 - 7 1 pcs 38x14 - 45x18 1/4 - 3/8 - 1/2 55x22 - 65x25 3/4 - 1" - 1.1/4 - 1.1/2 75x30 - 90x36

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA,
FILETTATURA GAS CONICA PER TUBI, IN CASSETTA DI LEGNO
Hss threading sets for industry, NPT thread, in wood boxes

17025635

17020636

NPT

Legno
Wood



cod.	€ cad/each	Composizione Description
17025635 HSS-G	1.861,480	 N° 1 - 3 - 5 1 pcs 30x11 - 38x14 - 45x18 - 55x22 - 65x25 Misure/Dimensions: 672x445x64 mm 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"
17020636 HSS-G	6.809,713	 N° 2 - 4 - 7 1 pcs 30x11 - 38x14 - 45x18 - 55x22 - 65x25 - 75x30 - 90x36 - 105x36 Misure/Dimensions: 973x397x162 mm 1/8 - 1/4 - 3/8 - 1/2 3/4 - 1" - 1.1/4 1.1/2 - 2"

ASSORTIMENTI A FILETTARE IN HSS PER GARAGE ED INDUSTRIA,
FILETTATURA WHITWORTH PASSO GROSSO, IN CASSETTA DI LEGNO
Hss threading sets for garages and industry, Whitworth thread, in wood boxes

17025619

17025620

BSW

17025621

17025622

Legno
Wood



Valigetta in metallo
Metal box

cod.	€ cad/each	Composizione Description
17025619 HSS-G	958,947	 N° 1 - 2 3 pcs 20x5 - 20x7 - 25x9 - 30x11 - 38x14 1/8 - 3/16 - 1/4 5/16 - 3/8 - 7/16 1/2 N° 1
17025620 HSS-G	1.085,862	 N° 1 - 3 3 pcs 20x7 - 25x9 - 30x11 - 38x14 - 45x18 Misure/Dimensions: 610x413x55 mm 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4
17025621 HSS-G	1.621,745	 N° 1 - 4 3 pcs 20x7 - 25x9 - 30x11 - 38x14 - 45x18 - 55x22 Misure/Dimensions: 683x406x58 mm 1/4 - 5/16 - 3/8 7/16 - 1/2 - 5/8 3/4 - 7/8 - 1"
17025622 HSS-G	4.463,321	 N° 1 - 3 - 6 3 pcs 20x7 - 25x9 - 30x11 - 38x14 - 45x18 - 55x22 - 65x25 Misure/Dimensions: 680x408x57 mm 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2

ASSORTIMENTI A FILETTARE IN HSS PER GARAGE ED INDUSTRIA, FILETTATURA WHITWORTH , IN CASSETTA DI LEGNO

Hss threading sets for garages and industry, Whitworth thread, in wood boxes

17025630

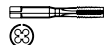
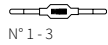

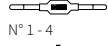
17025631

BSF

Legno
Wood



Valigetta in metallo
Metal box

cod.	€ cad/each	Composizione Description
17025630 HSS-G	1.029,459	  N° 1 - 3 2 pcs 20x7 - 25x9 30x11 - 38x10 45x14 Misure/Dimensions: 595x400x52 mm 1/4 - 5/16 - 3/8 7/16 - 1/2 - 5/8 - 3/4
17025631 HSS-G	1.692,256	  N° 1 - 4 2 pcs 20x7 - 25x9 30x11 - 38x10 45x14 - 55x22 Misure/Dimensions: 683x406x93 mm 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1"

17020523

BSW+BSF

Metallo
Metal



Valigetta in metallo
Metal box

cod.	€ cad/each	Composizione Description
17020523 HSS-G	2.217,210	  N° 1 - 3 BSW 3 pcs BSF 2 pcs 20x7 - 25x9 30x11 - 38x14 45x18 Misure/Dimensions: 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4

ASSORTIMENTI A FILETTARE IN HSS PER GARAGE ED INDUSTRIA,
FILETTATURA UNC E UNF, IN CASSETTA DI LEGNO
Hss threading sets for garages and industry, UNC and UNF thread, in wood boxes

UNC

17020528

17020525

17020526

17020527

Legno
Wood



Valigetta in metallo
Metal box

cod.	€ cad/each	Composizione Description
17020528 HSS-G	777,030	3 pcs 1/4 - 5/16 - 3/8 7/16 - 1/2 N° 1 - 2 20x7 - 25x9 30x11 - 38x10
17020525 HSS-G	1.071,764	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 N° 1 - 3 20x7 - 25x9 30x11 - 38x14 45x18
17020526 HSS-G	1.848,792	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1" N° 1 - 2 20x7 - 25x9 30x11 - 38x10
17020527 HSS-G	5.224,841	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2 N° 1 - 3 - 6 20x7 - 25x9 30x11 - 38x14 45x18 - 55x22 65x25

17020530

17020531

17020532

UNF



cod.	€ cad/each	Composizione Description
17020530 HSS-G	1.044,971	2 pcs 1/4 - 5/16 - 3/8 7/16 - 1/2 - 5/8 3/4 N° 1 - 3 20x7 - 25x9 30x11 - 38x10 45x14
17020531 HSS-G	1.795,196	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1" N° 1 - 4 20x7 - 25x9 30x11 - 38x10 45x14 - 55x16
17020532 HSS-G	4.822,932	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2 N° 1 - 3 - 6 20x7 - 25x9 - 30x11 38x14 - 45x14 55x16 - 65x18

17020533

UNC+UNF



cod.	€ cad/each	Composizione Description
17020533 HSS-G	2.217,210	UNC 3 pcs UNF 2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 N° 1 - 3 20x7 - 25x9 30x11 - 38x14 45x18

ASSORTIMENTI A FILETTARE AL CROMO VANADIO (CV)

CHROME VANADIUM (CV) THREADING SETS

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA METRICA, IN ASTUCCI DI METALLO E ABS

CV threading sets, coarse metric thread, in metal and plastic boxes

M+MF

09030505

09030504



cod.	€ cad/each	Composizione Description
09030505 C.V.	94,080	1 pcs N° 1.1/2
30 pcs		25,4
11 passi 11 threads		M 3x0,5 - 4x0,7 5x0,8 - 6x1 - 7x1 8x1 - 8x1,25 10x1,25 - 10x1,5 12x1,5 - 12x1,75
		1 contafiletto 1 pitch gauge
		2,5 - 3,3 - 4,2 - 5 - 6,8
09030504 C.V.	76,440	3 pcs N° 1.1/2
30 pcs		25,4
11 passi 11 threads		M 3x0,5 - 4x0,7 5x0,8 - 6x1 - 7x1 8x1 - 8x1,25 10x1,25 - 10x1,5 12x1,5 - 12x1,75
		1 contafiletto 1 pitch gauge

17005401

17005402



Astucci metallo
Metal case



Astucci metallo
Metal case

cod.	€ cad/each	Composizione Description
17005401 C.V.	57,107	3 pcs N° 1.1/2
21 pcs		M 3 - 4 - 5 - 6 8 - 10 - 12
17005402 C.V.	88,842	3 pcs N° 1.1/2
29 pcs		M 3 - 4 - 5 - 6 8 - 10 - 12
		2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25

17005404



Abs

cod.	€ cad/each	Composizione Description
17005404 C.V.	51,051	1 pcs N° 1.1/2
		M 3 - 4 - 5 - 6 8 - 10 - 12
		2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA METRICA,
IN CASSETTA DI LEGNO









CV threading sets, metric thread, in wood box

17012530

17012531

M



cod.	€ cad/each	Composizione Description
17012530 C.V. 6 passi 6 threads Misure/Dimensions: 320x218x38 mm	175,502	 3 pcs  N° 1  25,4  25,4 M 3 - 4 - 5 - 6 - 8 - 10
17012531 C.V. 8 passi 8 threads Misure/Dimensions: 432x227x50 mm	207,657	 3 pcs  N° 1  25,4  25,4 M 3 - 4 - 5 - 6 7 - 8 - 9 - 10

















17012532

17012533

17012543

M+MF



cod.	€ cad/each	Composizione Description
17012532 C.V. 7 passi 7 threads Misure/Dimensions: 320x218x38 mm	211,670	 3 pcs  N° 1.1/2  25,4  25,4 M 3 - 4 - 5 - 6 - 8 - 10 - 12
17012533 C.V. 10 passi 10 threads Misure/Dimensions: 517x305x50 mm	308,134	 3 pcs  N° 1 - 2  25,4 (7)  38,1 (3)  25,4 - 38,1 M 3 - 4 - 5 - 6 7 - 8 - 9 - 10 - 11 - 12
17012543 C.V. 12 passi 12 threads Misure/Dimensions: 528x312x48 mm	341,627	 2 pcs  N° 0 - 2  25,4 (7)  38,1 (3)  25,4  38,1 M 3x0,5 - 4x0,7 - 5x0,8 6x1 - 7x1 - 8x1 8x1,25 - 10x1,25 10x1,5 - 12x1,25 12x1,5 - 12x1,75  N° 1

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA METRICA,
IN CASSETTA DI LEGNO







CV threading sets, metric thread, in wood box

17012534

17012535

M



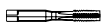





cod.	€ cad/each	Composizione Description
17012534	399,234	3 pcs   N° 1 - 3
c.v. 10 passi 10 threads Misure/Dimensions: 583x310x50 mm		 25,4 (5) 38,1 (5) M 3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18
17012535	467,560	3 pcs   N° 1 - 3
c.v. 11 passi 11 threads Misure/Dimensions: 680x380x53 mm		 25,4 (5) 38,1 (6) M 3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18 - 20

17012536

17012537

M









cod.	€ cad/each	Composizione Description
17012536	569,374	3 pcs   N° 2 - 4
c.v. 10 passi 10 threads Misure/Dimensions: 690x396x53 mm		 38,1 (5) 50,8 (5) M 6 - 8 - 10 - 12 - 14 16 - 18 - 20 - 22 - 24
17012537	609,568	3 pcs   N° 1 - 2 - 4
c.v. 13 passi 13 threads Misure/Dimensions: 680x418x58 mm		 25,4 (5) 38,1 (4) 50,8 (4) M 3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18 - 20 22 - 24

17012538

17012539

M



cod.	€ cad/each	Composizione Description
17012538	1.694,719	3 pcs   N° 1 - 3 - 5
c.v. 15 passi 15 threads Misure/Dimensions: 700x435x100 mm		 25,4(5) - 38,1(5) 50,8(5) - 63,5(5) M 3-4-5-6-8-10-12-14 16-18-20-22-24-27-30
17012539	2.443,619	3 pcs   N° 1 - 3 - 6
c.v. 19 passi 19 threads Misure/Dimensions: 700x435x100 mm		 25,4 (7) 38,1 (4) 50,8 (5) 63,5 (4) M 3 - 4 - 5 - 6 - 7 - 8 - 9 10 - 11 - 12 - 14 - 16 18 - 20 - 22 - 24 - 27 30 - 33

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA METRICA E BSW/UNC, IN CASSETTA DI LEGNO

CV threading sets, metric and BSW/UNC thread, in wood box









17012541

17012542

**COMBI M+BSW
M+UNC**



Misure/Dimensions:
648x413x84 mm

cod.	€ cad/each	Composizione Description
17012541 c.v.	1.614,344	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>3 pcs</p>   <p>M</p> <p>3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18 - 20 22 - 24</p> <p>BSW</p> <p>1/8 - 5/32 - 3/16 - 1/4 5/16 - 3/8 - 7/16 - 1/2 9/16 - 5/8 - 3/4 - 7/8 1"</p> </div> <div style="width: 45%;"> <p>N° 1 - 2 - 4</p>   <p>25,4 - 38,1 - 50,8</p> </div> </div>
17012542 c.v.	1.627,733	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>3 pcs</p>   <p>M</p> <p>3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18 - 20 22 - 24</p> <p>UNC</p> <p>1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"</p> </div> <div style="width: 45%;"> <p>N° 1 - 2 - 4</p>   <p>25,4 - 38,1 - 50,8</p> </div> </div>

ASSORTIMENTI A FILETTARE AL CV, PER GARAGE TIPO "FIAT RIDOTTO", FILETTATURA METRICA, IN CASSETTA DI LEGNO




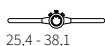

CV threading sets, special for automotive, metric thread, in wood box

17012510



Misure/Dimensions:
635x335x52 mm
Kg. 5,8

FIAT RIDOTTO - M+MF

cod.	€ cad/each	Composizione Description
17012510	448,806	 2 pcs  N° 1 - 3  25,4 (8)  25,4 - 38,1  38,1 (12)
65 pcs 20 passi 20 threads		M 2x0,4 - 3x0,5 - 4x0,7 5x0,8 - 6x1 - 7x1 - 8x1 8x1,25 - 10x1 - 10x1,25 10x1,5 - 12x1,25 12x1,5 - 12x1,75 14x1,25 - 14x1,5 14x2 - 16x1,5 16x2 - 18x1,5

ASSORTIMENTI A FILETTARE AL CV, PER GARAGE TIPO "FIAT GRANDE", SPECIALE PER CAMION, FILETTATURA METRICA, IN CASSETTA DI LEGNO

CV threading sets, special for trucks, metric thread, in wood box


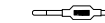

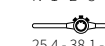

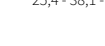











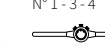



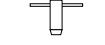

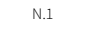






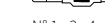

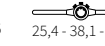



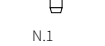




















17012512

17012513



Misure/Dimensions:
600x430x77 mm
Kg. 13,8

FIAT GRANDE - M+MF

cod.	€ cad/each	Composizione Description
17012512	1.090,515	 3 pcs  N° 1 - 2 - 3 - 4  3 x 0,5  14 x 1  4 x 0,7  14 x 1,5  5 x 0,8  14 x 2  6 x 1  16 x 1  7 x 1  16 x 1,5  8 x 0,75  16 x 2  8 x 1  18 x 1,5  8 x 1,25  20 x 1,5  10 x 1  20 x 2,5  10 x 1,5  22 x 1,5  11 x 0,75  24 x 1,5  12 x 1  24 x 2  12 x 1,5  24 x 2  12 x 1,75
111 pcs 26 passi 26 pitch		M 3 x 0,5 4 x 0,7 5 x 0,8 6 x 1 7 x 1 8 x 0,75 8 x 1 8 x 1,25 10 x 1 10 x 1,5 11 x 0,75 12 x 1 12 x 1,5 12 x 1,75
17012513	1.199,032	 3 pcs  N° 1 - 3 - 4  3 x 0,5  14 x 1  4 x 0,7  14 x 1,25  5 x 0,8  14 x 1,5  6 x 1  14 x 2  7 x 1  16 x 1  8 x 1  16 x 1,5  8 x 1,25  16 x 2  9 x 1  18 x 1,5  9 x 1,25  20 x 1,5  10 x 1  20 x 2,5  10 x 1,25  22 x 1,5  10 x 1,5  22 x 2  12 x 1  24 x 1,5 12 x 1,25 24 x 2 12 x 1,5 24 x 2 12 x 1,75
114 pcs 30 passi 30 pitch		M 3 x 0,5 4 x 0,7 5 x 0,8 6 x 1 7 x 1 8 x 1 8 x 1,25 9 x 1 9 x 1,25 10 x 1 10 x 1,25 10 x 1,5 12 x 1 12 x 1,25 12 x 1,5 12 x 1,75

ASSORTIMENTI A FILETTARE AL CV, PER GARAGE TIPO "FIAT",
FILETTATURA METRICA, IN CASSETTA DI LEGNO
CV threading sets, special for automotive, metric thread, in wood box

17012500

FIAT CLASSIC - M+MF

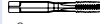





















FIAT

Confezione
Packaging



Misure/Dimensions:
500x340x70 mm
Kg. 7,9

cod.	€ cad/each	Composizione Description
17012500 C.V.	610,496	2 pcs  25,4 (14) 38,1 (21)
		 N° 1 - 3
		2 x 0,4  11 x 0,75
		3 x 0,5  11 x 1
		4 x 0,7  11 x 1,25
		5 x 0,8  11 x 1,5
		6 x 0,75  12 x 0,75
		6 x 1  12 x 1
		7 x 0,75  12 x 1,25
		7 x 1  12 x 1,5
		8 x 0,75  12 x 1,75
		8 x 1  14 x 1
		8 x 1,25  14 x 1,25
		9 x 0,75  14 x 1,5
		9 x 1  14 x 2
		9 x 1,25  16 x 1
		10 x 0,75  16 x 1,5
		10 x 1  16 x 2
		10 x 1,25  18 x 1,5
10 x 1,5  18 x 1,5		

Per ravvivare i filetti di:
To renew threads of:

FIAT, ALFA ROMEO, LANCIA, VOLKSWAGEN, BMW,
MERCEDES, FORD, OPEL G.M., PEUGEOT, RENAULT,
VOLVO, CITROEN, TOYOTA, NISSAN, HONDA, ETC.

ASSORTIMENTI A FILETTARE AL CV, PER GARAGE TIPO "FIAT",
FILETTATURA METRICA, IN CASSETTA DI LEGNO

CV threading sets, special for automotive, metric thread, in wood box

17012505

FIAT PLUS - M+MF

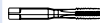


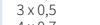
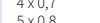
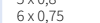
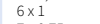
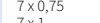
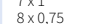
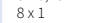
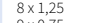
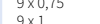
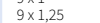
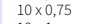
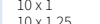
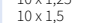






FIAT

Confezione
Packaging



Misure/Dimensions:
500x340x70 mm
Kg. 8,0

cod.	€ cad/each	Composizione Description
17012505 C.V.	643,060	2 pcs  25,4 (14) 38,1 (21)
		 N° 1 - 3
		2 x 0,4  11 x 0,75
		3 x 0,5  11 x 1
		4 x 0,7  11 x 1,25
		5 x 0,8  11 x 1,5
		6 x 0,75  12 x 0,75
		6 x 1  12 x 1
		7 x 0,75  12 x 1,25
		7 x 1  12 x 1,5
		8 x 0,75  12 x 1,75
		8 x 1  14 x 1
		8 x 1,25  14 x 1,25
		9 x 0,75  14 x 1,5
		9 x 1  14 x 2
		9 x 1,25  16 x 1
		10 x 0,75  16 x 1,5
		10 x 1  16 x 2
		10 x 1,25  18 x 1,5
		10 x 1,5  18 x 1,5

0÷150 mm 0,01
Digital

ASSORTIMENTI A FILETTARE AL CV PER GARAGE ED INDUSTRIA,
FILETTATURA WHITWORTH, IN CASSETTA DI LEGNO

CV threading sets for garages and industry, Whitworth thread, in wood boxes

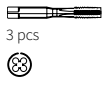
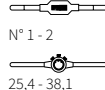
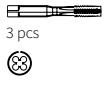
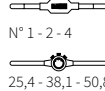
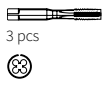
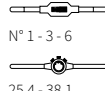
17012520

17012521

17012522

BSW

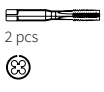
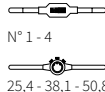


cod.	€ cad/each	Composizione Description
17012520 c.v.	355,016	 3 pcs  N° 1 - 2 25,4 - 38,1 BSW 1/8 - 5/32 - 3/16 1/4 - 5/16 - 3/8 7/16 - 1/2
17012521 c.v.	708,708	 3 pcs  N° 1 - 2 - 4 25,4 - 38,1 - 50,8 BSW 1/8 - 5/32 - 3/16 1/4 - 5/16 - 3/8 7/16 - 1/2 - 9/16 5/8 - 3/4 - 7/8 - 1"
17012522 c.v.	2.159,603	 3 pcs  N° 1 - 3 - 6 25,4 - 38,1 50,8 - 63,5 BSW 1/8 - 5/32 - 3/16 - 1/4 5/16 - 3/8 - 7/16 - 1/2 9/16 - 5/8 - 3/4 - 7/8 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2

17012525

BSF



cod.	€ cad/each	Composizione Description
17012525 c.v.	699,330	 2 pcs  N° 1 - 4 25,4 - 38,1 - 50,8 BSF 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"

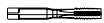







ASSORTIMENTI A FILETTARE AL CV PER GARAGE ED INDUSTRIA,
FILETTATURA WHITWORTH, IN CASSETTA DI LEGNO
CV threading sets for garages and industry, Whitworth thread, in wood boxes

17012528

17012529

BSW+BSF



cod.	€ cad/each	Composizione Description
17012528 c.v.	814,537	  BSW 3 pcs BSF 2 pcs   N° 1 - 3 25,4 - 38,1 - 50,8 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 Misure/Dimensions: 657x313x78 mm
17012529 c.v.	1.106,594	  BSW 3 pcs BSF 2 pcs   N° 1 - 4 25,4 - 38,1 - 50,8 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1" Misure/Dimensions: 615x390x87 mm

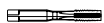


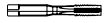


ASSORTIMENTI A FILETTARE AL CV, FILETTATURA GAS CILINDRICA PER TUBI,
IN CASSETTA DI LEGNO
CV threading sets, BSP thread, in wood boxes

17012515

17012516

BSP







cod.	€ cad/each	Composizione Description
17012515 c.v.	857,405	 2 pcs   N° 3 - 5 38,1 - 50,8 - 63,5 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1" Misure/Dimensions: 600x433x77 mm
17012516 c.v.	1.935,867	 2 pcs   N° 4 - 7 38,1 - 50,8 63,5 - 76,2 1/4 - 3/8 - 1/2 - 3/4 1" - 1.1/4 - 1.1/2 Misure/Dimensions: 697x476x97 mm

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA GAS CONICA PER TUBI,
IN CASSETTA DI LEGNO
CV threading sets, BSPT and NPT thread, in wood boxes

17012540

BSPT







cod.	€ cad/each	Composizione Description
17012540 c.v.	1.149,462	  1 pc N° 1 - 3 - 5   30x11 - 38x14 45x18 - 55x22 65x25 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"

17012545

NPT



cod.	€ cad/each	Composizione Description
17012545 c.v.	1.149,462	  1 pc N° 1 - 3 - 5   30x11 - 38x14 45x18 - 55x22 65x25 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"

ASSORTIMENTI A FILETTARE AL CV PER GARAGE ED INDUSTRIA,
FILETTATURA UNC, IN CASSETTA DI LEGNO
CV threading sets for garages and industry, UNC thread, in wood boxes













17012560

17012561

17012562

UNC



cod.	€ cad/each	Composizione Description
17012560 c.v.	635,021	  3 pcs N° 1 - 3   25,4 - 38,1 - 50,8 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4
17012561 c.v.	811,861	  3 pcs N° 1 - 4   25,4 - 38,1 - 50,8 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"
17012562 c.v.	2.544,098	  3 pcs N° 1 - 3 - 6   25,4 - 38,1 50,8 - 63,5 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2

ASSORTIMENTI A FILETTARE AL CV PER GARAGE ED INDUSTRIA,
FILETTATURA UNC E UNF, IN CASSETTA DI LEGNO
CV threading sets for garages and industry, UNC and UNF thread, in wood boxes




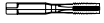





17012565

17012566

17012567

UNF



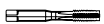


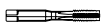


cod.	€ cad/each	Composizione Description
17012565 C.V.	600,191	 2 pcs  N° 1 - 3  25,4 - 38,1 - 50,8 Misure/Dimensions: 655x400x55 mm 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4
17012566 C.V.	739,511	 2 pcs  N° 1 - 4  25,4 - 38,1 - 50,8 Misure/Dimensions: 610x393x87 mm 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"
17012567 C.V.	2.450,321	 2 pcs  N° 1 - 3 - 6  25,4 - 38,1 50,8 - 63,5 Misure/Dimensions: 610x393x87 mm 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2

17012570

17012571

UNC+UNF



cod.	€ cad/each	Composizione Description
17012570 C.V.	1.239,226	 UNC 3 pcs UNF 2 pcs  N° 1 - 3  25,4 - 38,1 - 50,8 Misure/Dimensions: 657x313x78 mm 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4
17012571 C.V.	1.539,320	 UNC 3 pcs UNF 2 pcs  N° 1 - 4  25,4 - 38,1 - 50,8 Misure/Dimensions: 615x390x87 mm 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"

RIPRISTINO DELLE FILETTATURE

THREAD REPAIR

KIT MONODIMENSIONALI METRICI PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE

Thread repair kit

10600

KIT MONODIMENSIONALI





One dimensional kit

M






10618



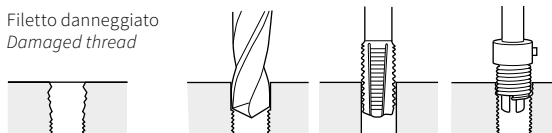
					pcs	cod.	€ cad/each
	Ø						
M	2 x 0,4	2,1 mm	N° 2	N° 2	20	10600098	38,261
	2,5 x 0,45	2,6 mm	3	3	20	10600099	38,261
	3 x 0,5	3,2 mm	4	4	20	10600100	38,261
	3,5 x 0,6	3,7 mm	5	5	20	10600101	38,261
	4 x 0,7	4,2 mm	6	6	20	10600102	38,261
	5 x 0,8	5,2 mm	8	8	20	10600103	37,682
	6 x 1	6,3 mm	9	9	20	10600104	40,551
	7 x 1	7,3 mm	10	11	20	10600105	45,794
	8 x 1,25	8,3 mm	11	11	20	10600106	45,794
	8 x 1	8,3 mm	11	11	20	10600107	45,794
	9 x 1,25	9,3 mm	12	12	15	10600108	57,240
	10 x 1,5	10,4 mm	13	13	15	10600109	55,319
	10 x 1,25	10,3 mm	13	13	15	10600110	55,319
	10 x 1	10,3 mm	13	13	15	10600111	55,319
	11 x 1,5	11,4 mm	14	14	10	10600112	61,989
	12 x 1,75	12,4 mm	15	15	10	10600113	61,989
	12 x 1,5	12,4 mm	15	15	10	10600114	61,989
	12 x 1,25	12,3 mm	15	15	10	10600115	61,989
	12 x 1	12,3 mm	15	15	10	10600116	61,989
	14 x 2				10	10600117	65,321
	14 x 1,5				10	10600118	65,321
	14 x 1,25				10	10600119	65,321
	14 x 1				10	10600120	65,321
	16 x 2				10	10600121	79,141
	16 x 1,5				10	10600122	79,141
	18 x 2,5				5	10600123	94,660
	18 x 2				5	10600124	94,660
	18 x 1,5				5	10600125	94,660
	20 x 2,5				5	10600126	101,641
	20 x 2				5	10600127	101,641
	20 x 1,5				5	10600128	101,641
	22 x 2,5				5	10600129	124,048
	22 x 2				5	10600130	124,048
	22 x 1,5				5	10600131	124,048
	24 x 3				5	10600132	142,943
	24 x 2				5	10600133	142,943
	24 x 1,5				5	10600134	142,943



				pcs	cod.	€ cad/each	
	Ø						
M	26 x 1,5			1	10	10600135	509,497
	27 x 3			1	10	10600136	509,497
	27 x 2			1	10	10600137	509,497
	27 x 1,5			1	10	10600138	509,497
	28 x 1,5			1	10	10600139	591,436
	30 x 3,5			1	10	10600140	622,319
	30 x 2			1	10	10600141	622,319
	30 x 1,5			1	10	10600142	622,319
	33 x 3,5			1	10	10600143	649,630
	33 x 2			1	10	10600144	649,630
	36 x 4			1	10	10600145	706,643
	36 x 3			1	10	10600146	706,643
	36 x 2			1	10	10600147	706,643
	36 x 1,5			1	10	10600148	706,643

M

Filetto danneggiato
Damaged thread



KIT PRURIDIMENSIONALI METRICI PER IL RIPRISTINO DELLE FILETTATURE

Thread repair kit

10605

KIT PLURIDIMENSIONALI

Multi-dimensional kit

M

€

cad/each



	Ø				pcs	cod.	€
M5-M12	5 x 0,8	5,2 mm	N° 8	N° 8	25	10605100	235,672
	6 x 1	6,3 mm	9	9	25		
	8 x 1,25	8,3 mm	11	11	25		
	10 x 1,5	10,4 mm	13	13	25		
	12 x 1,75	12,4 mm	15	15	10		



10618

M6-M14x1,25							€
M6-M14x1,25	6 x 1	6,3 mm	9	9	25	10605101	265,034
	8 x 1,25	8,3 mm	11	11	25		
	10 x 1,5	10,4 mm	13	13	25		
	12 x 1,75	12,4 mm	15	15	10		
	14 x 1,25		17		10		

M6-M14x1,25							€
M6-M14x1,25	6 x 1	6,3 mm	9	9	25	10605102	273,314
	8 x 1,25	8,3 mm	11	11	25		
	10 x 1,5	10,4 mm	13	13	25		
	12 x 1,75	12,4 mm	15	15	10		
	*14 x 1,25		17		10		



M6-M10							€
M6-M10	6 x 1	6,3 mm	9	9	25	10605099	153,754
	8 x 1,25	8,3 mm	11	11	25		
	10 x 1,5	10,4 mm	13	13	25		



10618

KIT MONODIMENSIONALI METRICI PER IL RIPRISTINO DELLE FILETTATURE - SPECIALE PER CANDELE

Thread repair kit

10631

KIT MONODIMENSIONALI - SPECIALE PER CANDELE


One dimensional kit- Special for spark plugs

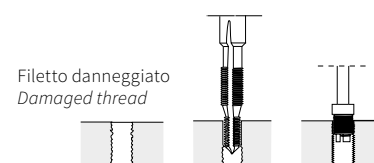
M



	STI		8,40 d	12,40 d	16,40 d	cod.	€ cad/each	
M	14	x 1,25	N° 17	5	5	5	10631100	87,090



Ricambio Spare part	Filetto Thread	L	pcs	cod.	€ cad/each
	M 14 x 1,25	8,4	50	1060614x12508	1,538
	14 x 1,25	12,4	50	1060614x12512	1,538
	14 x 1,25	16,4	50	1060614x12516	1,538



	STI		1,5 d	cod.	€ cad/each	
M	12	x 1,25	N° 15	10	10631115	123,098
	10	x 1,5	N° 13	10	10631114	93,645
	10	x 1,25	N° 13	10	10631113	93,645
	10	x 1	N° 13	10	10631112	93,645
	8	x 1,25	N° 11	10	10631111	91,670
	6	x 1	N° 9	10	10631110	76,014



10606

KIT METRICI PER IL RIPRISTINO DELLE FILETTATURE SPECIALE PER CANDELE E CANDELETTE

Thread repair kit, special for spark plugs and glow plugs

10631130

KIT MONODIMENSIONALE - SPECIALE PER CANDELE M14 X 1,25

One dimensional kit- Special for spark plugs M14 X 1,25

M



Inserto solido
Solid thread insert

	Ø	9,5 mm pcs	11,2 mm pcs	12,7 mm pcs	17,5 mm pcs	cod.	€ cad/each
M5-M12	M 16 x 1,25	4	4	4	4	10631130	108,912

Maschio combinato / Combined tap

Ricambi Spare parts	Ø	L	l	pcs	cod.	€ cad/each
	M 16 x 1,25	70	41	1	1062616x125	88,855

Inserto solido / Solid insert

Ricambi Spare parts	Ø	HSS mm	pcs	cod.	€ cad/each
	M 14 x 1,25	9,5	50	1062714x12509	7,056
	M 14 x 1,25	11,2	50	1062714x12511	7,291
	M 14 x 1,25	12,7	50	1062714x12512	7,291
	M 14 x 1,25	17,5	50	1062714x12517	7,644

10631205

KIT PLURIDIMENSIONALE - SPECIALE PER CANDELETTE 8-10-12 MM

One dimensional kit- Special for spark plugs 8-10-12 MM

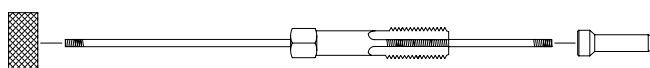
M



Abs

Inserto solido
Solid thread insert

	12 mm pcs	cod.	€ cad/each
M 8x1 - M 10x1 - M 10x1,25 M 12x1 - M 12x1,25 - M 14x1,25	M 8x1 - M 10x1 M 10x1,25 - M 12x1	10631205	339,516



Il set contiene un'asta di montaggio, con relativa impugnatura, 3 tappi e 2 utensili inseritori.
This set contains 1 insert fitting rod, its grip handle, 3 plug end blanks and 2 insert fitting tools.

**KIT PER IL RIPRISTINO
DELLE FILETTATURE DANNEGGIATE - WHITWORTH E GAS**
Thread repair kit

10600

KIT MONODIMENSIONALI


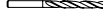



One dimensional kit




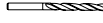



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


BSW

								
	Ø				1,5 d	pcs	cod.	€ cad/each
	1/8 x 40	3,4 mm	N° 4	N° 4		20	10600168	55,497
	3/16 x 24	5,0 mm	8	8		20	10600169	55,497
	1/4 x 20	6,7 mm	9	9		20	10600170	49,977
	5/16 x 18	8,3 mm	10	11		20	10600171	61,237
	3/8 x 16	9,9 mm	12	12		15	10600172	65,328
	7/16 x 14	11,5 mm	14	14		10	10600173	73,322
	1/2 x 12	13,0 mm	15	15		10	10600174	80,492
	9/16 x 12		16			10	10600175	108,083
	5/8 x 11		18			10	10600176	108,083
	3/4 x 10		20			5	10600177	137,347
	7/8 x 9		22			5	10600178	167,411
	1" x 8		23			4	10600179	159,292

BSF

								
	Ø				1,5 d	pcs	cod.	€ cad/each
	3/16 x 32	5,0 mm	N° 7	N° 6		20	10600185	55,497
	1/4 x 26	6,6 mm	9	9		20	10600180	49,977
	5/16 x 22	8,3 mm	11	11		20	10600181	61,237
	3/8 x 20	9,9 mm	13	13		15	10600182	65,328
	7/16 x 18	11,5 mm	14	14		10	10600183	73,322
	1/2 x 16	13,0 mm	15	15		10	10600184	80,492
	9/16 x 16		16			10	10600186	108,083
	5/8 x 14		18			10	10600187	108,083
	3/4 x 12		20			5	10600188	137,347
	7/8 x 11		22			5	10600189	167,411
	1" x 10		23			4	10600190	159,292

BSP

								
	Ø	pcs	1,5 d	pcs	cod.	€ cad/each		
G	1/8 x 28	1		10	10600191	134,958		
	1/4 x 19	1		10	10600192	146,837		
	3/8 x 19	1		10	10600193	157,629		
	1/2 x 14	1		10	10600194	200,508		
	5/8 x 14	1		10	10600195	449,143		
	3/4 x 14	1		10	10600196	449,143		
	7/8 x 14	1		10	10600197	617,566		
	1" x 11	1		10	10600198	617,566		


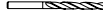



10605

KIT PLURIDIMENSIONALE

Multi-dimensional kit



BSW-BSF

								
	Ø				1,5 d	pcs	cod.	€ cad/each
BSW 1/4 - 1/2	1/4 x 20	6,7 mm	N° 9	9		25	10605105	313,854
	5/16 x 18	8,3 mm	10	11		25		
	3/8 x 16	9,9 mm	12	12		25		
	7/16 x 14	11,5 mm	14	14		10		
	1/2 x 12	13,0 mm	15	15		10		
BSF 1/4 - 1/2	1/4 x 20	6,7 mm	N° 9	9		25	10605106	313,854
	5/16 x 18	8,3 mm	10	11		25		
	3/8 x 16	9,9 mm	12	12		25		
	7/16 x 14	11,5 mm	14	14		10		
	1/2 x 12	13,0 mm	15	15		10		

KIT PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE - UNC E UNF

Thread repair kit

10600






KIT MONODIMENSIONALI

One dimensional kit



10618


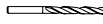





									
		Ø				1,5 d	pcs	cod.	€ cad/each
No.	6	x 32	3,8 mm	N° 5	N° 5		20	106001481	61,665
	8	x 32	4,4 mm	6	6		20	10600149	61,665
	10	x 24	5,2 mm	7	6		20	106001490	61,665
	12	x 24	5,8 mm	8	8		20	106001491	61,665
UNC	1/4	x 20	6,7 mm	9	9		20	10600150	55,528
	5/16	x 18	8,3 mm	10	10		20	10600151	68,041
	3/8	x 16	9,9 mm	12	12		15	10600152	72,591
	7/16	x 14	11,6 mm	14	14		10	10600153	81,472
	1/2	x 13	13,0 mm	15	15		10	10600154	89,435
	9/16	x 12		16			10	10600155	120,094
	5/8	x 11		18			10	10600156	120,094
	3/4	x 10		20			5	10600157	152,602
	7/8	x 9		22			5	10600158	186,019
	1"	x 8		23			4	10600159	176,990
			Ø				1,5 d	pcs	cod.
UNC	1.1/8	x 7					1	106001590	551,010
	1.1/4	x 7					1	106001591	607,488
	1.1/2	x 6					1	106001592	814,037

UNC

€
cad/each

UNF






									
		Ø				1,5 d	pcs	cod.	€ cad/each
No.	6	x 40	3,8 mm	N° 5	N° 5		20	106001597	61,665
	8	x 36	4,4 mm	6	6		20	106001598	61,665
	10	x 32	5,1 mm	8	8		20	106001599	61,665
	12	x 24	5,8 mm	9	9		20	10600160	55,528
UNF	1/4	x 28	6,7 mm	9	9		20	10600160	55,528
	5/16	x 24	8,3 mm	11	11		20	10600161	68,041
	3/8	x 24	9,8 mm	13	13		15	10600162	72,591
	7/16	x 20	11,5 mm	14	14		10	10600163	81,472
	1/2	x 20	13,0 mm	15	15		10	10600164	89,435
	9/16	x 18		16			10	10600165	120,094
	5/8	x 18		18			10	10600166	120,094
	3/4	x 16		21			5	10600167	152,602
	7/8	x 14		22			5	106001670	186,019
	1"	x 12		23			4	106001671	176,990
			Ø				1,5 d	pcs	cod.
UNF	1.1/8	x 12					1	106001672	550,790
	1.1/4	x 12					1	106001673	607,488
	1.1/2	x 12					1	106001674	814,037

10605

KIT PLURIDIMENSIONALE

Multi-dimensional kit



									
		Ø				1,5 d	pcs	cod.	€ cad/each
UNC 1/4 - 1/2	1/4	x 20	6,7 mm	N° 9	9		25	10605103	313,854
	5/16	x 18	8,3 mm	10	11		25		
	3/8	x 16	9,9 mm	12	12		25		
	7/16	x 14	11,5 mm	14	14		10		
	1/2	x 13	13,0 mm	15	15		10		
UNF 1/4 - 1/2	1/4	x 28	6,7 mm	N° 9	9		25	10605104	313,854
	5/16	x 24	8,3 mm	11	11		25		
	3/8	x 24	9,8 mm	13	13		25		
	7/16	x 20	11,5 mm	14	14		10		
	1/2	x 20	13,0 mm	15	15		10		

UNC-UNF

INSERTI FILETTATI IN ACCIAIO INOX
PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE
Wire-thread insert in stainless steel

10606

K-COIL DIN 8140 - ISO 2/6H



Acciaio inox austenitico 18/8 (A2 - AISI304) / Austenitic stainless steel

M

Filetto Thread	pcs	1x d		1,5x d		2x d		2,5x d		3x d	
		cod.	€ cad/each	cod.	€ cad/each	cod.	€ cad/each	cod.	€ cad/each	cod.	€ cad/each
M 2 x 0,4	100	10606102x04	1,291	1060602x04	1,538	10606202x04	1,956	106062502X04	2,087	10606302x04	2,764
2,2 x 0,45	100	106061022x045	1,291	10606022x045	1,538	106062022x045	1,956	1060625022X04	2,087	106063022x045	2,764
2,5 x 0,45	100	106061025x045	1,291	10606025x045	0,522	106062025x045	0,883	1060625025X04	0,914	106063025x045	1,174
3 x 0,5	100	10606103x05	0,494	1060603x05	0,541	10606203x05	0,564	106062503X05	0,730	10606303x05	0,756
3,5 x 0,6	100	106061035x06	0,494	10606035x06	1,538	106062035x06	0,564	1060625035X06	0,914	106063035x06	1,043
4 x 0,7	100	10606104x07	0,412	1060604x07	0,500	10606204x07	0,447	106062504X07	0,664	10606304x07	0,795
5 x 0,8	100	10606105x08	0,392	1060605x08	0,353	10606205x08	0,495	106062505X08	0,572	10606305x08	0,679
6 x 1	100	10606106x1	0,392	1060606x1	0,353	10606206x1	0,572	106062506X1	0,588	10606306x1	0,744
7 x 1	100	10606107x1	0,417	1060607x1	0,561	10606207x1	0,691	106062507X1	0,848	10606307x1	1,214
8 x 1,25	100	10606108x125	0,455	1060608x125	0,417	10606208x125	0,744	106062508X125	0,795	10606308x125	1,108
8 x 1	100	10606108x1	0,455	1060608x1	0,447	10606208x1	0,691	106062508X1	0,795	10606308x1	0,939
9 x 1,25	100	10606109x125	0,653	1060609x125	0,756	10606209x125	0,939	106062509X125	1,500	10606309x125	1,786
10 x 1,5	100	10606110x15	0,600	1060610x15	0,627	10606210x15	0,795	106062510X15	0,939	10606310x15	1,214
10 x 1,25	100	10606110x125	0,600	1060610x125	0,627	10606210x125	0,795	106062510X125	0,939	10606310x125	1,214
10 x 1	100	10606110x1	0,600	1060610x1	0,627	10606210x1	0,795	106062510X1	0,939	10606310x1	1,214
11 x 1,5	100	10606111x15	0,991	1060611x15	1,056	10606211x15	1,264	-	-	-	-
12 x 1,75	100	10606112x175	0,848	1060612x175	0,860	10606212x175	1,082	106062512X175	1,147	10606312x175	1,721
12 x 1,5	100	10606112x15	0,848	1060612x15	0,860	10606212x15	1,082	106062512X15	1,147	10606312x15	1,721
12 x 1,25	100	10606112x125	0,848	1060612x125	0,860	10606212x125	1,082	106062512X125	1,147	10606312x125	1,721
12 x 1	100	10606112x1	0,848	1060612x1	0,860	10606212x1	1,082	106062512X1	1,147	10606312x1	1,721
14 x 2	50	10606114x2	1,252	1060614x2	1,082	10606214x2	1,409	106062514X2	1,566	10606314x2	2,491
14 x 1,5	50	10606114x15	1,252	1060614x15	1,082	10606214x15	1,409	106062514X15	1,566	10606314x15	2,280
14 x 1,25	50	10606114x125	1,252	1060614x125	1,082	10606214x125	1,409	106062514X125	1,566	10606314x125	2,280
14 x 1	50	10606114x1	1,252	1060614x1	1,082	10606214x1	1,409	106062514X1	1,566	10606314x1	2,280
16 x 2	50	10606116x2	1,436	1060616x2	1,225	10606216x2	1,852	106062516X2	2,280	10606316x2	2,738
16 x 1,5	50	10606116x15	1,436	1060616x15	1,225	10606216x15	1,852	106062516X15	2,280	10606316x15	2,738
18 x 2,5	25	10606118x25	2,087	1060618x25	1,956	10606218x25	3,300	106062518X25	3,650	10606318x25	4,420
18 x 2	25	10606118x2	2,087	1060618x2	1,956	10606218x2	3,300	106062518X2	3,650	10606318x2	4,420
18 x 1,5	25	10606118x15	2,087	1060618x15	1,956	10606218x15	3,300	106062518X15	3,650	10606318x15	4,420
20 x 2,5	25	10606120x25	2,738	1060620x25	2,477	10606220x25	4,199	106062520X25	5,019	10606320x25	5,619
20 x 2	25	10606120x2	2,738	1060620x2	2,477	10606220x2	4,199	106062520X2	5,019	10606320x2	5,619
20 x 1,5	25	10606120x15	2,738	1060620x15	2,477	10606220x15	4,199	106062520X15	5,019	10606320x15	5,619
22 x 2,5	10	10606122x25	3,128	1060622x25	3,261	10606222x25	4,706	106062522X25	5,646	10606322x25	6,023
22 x 2	10	10606122x2	3,128	1060622x2	3,261	10606222x2	4,706	106062522X2	5,646	10606322x2	6,023
22 x 1,5	10	10606122x15	3,128	1060622x15	3,261	10606222x15	4,706	106062522X15	5,646	10606322x15	6,023
24 x 3	10	10606124x3	3,650	1060624x3	4,198	10606224x3	5,488	106062524X3	6,584	10606324x3	6,779
24 x 2	10	10606124x2	3,650	1060624x2	4,198	10606224x2	5,488	106062524X2	6,584	10606324x2	6,779
24 x 1,5	10	10606124x15	3,650	1060624x15	4,198	10606224x15	5,488	106062524X15	6,584	10606324x15	6,779
26 x 1,5	5	-	-	1060626x15	6,670	-	-	-	-	-	-
27 x 3	5	-	-	1060627x3	6,670	-	-	-	-	-	-
27 x 2	5	-	-	1060627x2	6,670	-	-	-	-	-	-
27 x 1,5	5	-	-	1060627x15	6,670	-	-	-	-	-	-
28 x 1,5	5	-	-	1060628x15	7,530	-	-	-	-	-	-
30 x 3,5	5	-	-	1060630x35	8,777	-	-	-	-	-	-
30 x 2	5	-	-	1060630x2	8,777	-	-	-	-	-	-
30 x 1,5	5	-	-	1060630x15	8,777	-	-	-	-	-	-
33 x 3,5	5	-	-	1060633x35	10,498	-	-	-	-	-	-
33 x 2	5	-	-	1060633x2	10,498	-	-	-	-	-	-
36 x 4	5	-	-	1060636x4	9,638	-	-	-	-	-	-
36 x 3	5	-	-	1060636x3	9,638	-	-	-	-	-	-
36 x 2	5	-	-	1060636x2	9,638	-	-	-	-	-	-
36 x 1,5	5	-	-	1060636x15	9,638	-	-	-	-	-	-



1xd



1,5xd

Nota: la misura è riferita all'inserto posizionato nella sua sede

Note: the coil length refers to the tool mounted inside its site

INSERTI FILETTATI AUTOBLOCCANTI IN ACCIAIO INOX PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE

Stainless steel wire thread inserts, screw self-locking to renew damaged threads

10625

DIN 8140 - ISO 2/6H



Acciaio inox austenitico 18/8 (A2 - AISI304) / Austenitic stainless steel

AUTOBLOCCANTI - M

Filetto Thread	pcs	1 x d		1,5 x d		2 x d	
		cod.	€ cad/each	cod.	€ cad/each	cod.	€ cad/each
M 3 x 0,5	100	10625103x05	0,561	1062503x05	0,588	10625203x05	0,627
4 x 0,7	100	10625104x07	0,561	1062504x07	0,588	10625204x07	0,627
5 x 0,8	100	10625105x08	0,627	1062505x08	0,653	10625205x08	0,718
6 x 1	100	10625106x1	0,691	1062506x1	0,756	10625206x1	0,821
8 x 1,25	100	10625108x125	0,718	1062508x125	0,821	10625208x125	0,991
10 x 1,5	100	10625110x15	0,925	1062510x15	0,991	10625210x15	1,147
12 x 1,75	100	10625112x175	1,343	1062512x175	1,538	10625212x175	1,746
14 x 2	50	10625114x2	1,903	1062514x2	2,165	10625214x2	2,268
16 x 2	50	10625116x2	2,569	1062516x2	2,699	10625216x2	3,324

Consigli d'uso

Si consiglia l'utilizzo di inserti autobloccanti nel caso di sollecitazioni cicliche del filetto o della necessità di una particolare resistenza agli impatti. Si consiglia inoltre l'uso con viti nichelate o ben lubrificate.

L'inserto autobloccante è dotato di alcune spire poligonali inserite tra le spire circolari per tutta la sua lunghezza: tali spire poligonali esercitano una pressione radiale maggiore sulla vite inserita nell'inserto funzionando da bloccaggio. Rimuovendo la vite, le spire poligonali tornano nella loro forma originale garantendo un ottimo livello di pressione radiale per una serie di avviture/svitature successive.

Use tips

Screw locking inserts are of particular value in applications subject to the effects of cyclic vibration or impact.

The prevailing locking torque they assure is achieved by the action of one or more polygonal grip coils positioned within the insert's length, which exert radial pressure on the male thread. As the male thread passes through these grip coils, the locking flats are displaced thus exerting radial pressure or prevailing torque on the male thread. When removing the male thread, the locking coils relax to their original form permitting repeated assembly while retaining a measurable level of prevailing torque. Please use only close fit plated or lubricated bolts or screws with the screw locking inserts.

INSERTI FILETTATI IN ACCIAIO INOX
PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE
Wire-thread insert in stainless steel



10607

K-COIL DIN 8140 - ISO 2/6H

UNC



Acciaio inox austenitico 18/8 | Austenitic stainless steel 18/8

	Ø	 pcs.	 1,5 d cod.	€ cad/each
No.	8 x 32	100	10607N08	0,600
	10 x 24	100	10607N10	0,600
	12 x 24	100	10607N12	0,600
UNC	1/4 x 20	100	106071/4	0,860
	5/16 x 18	100	106075/16	0,860
	3/8 x 16	100	106073/8	1,108
	7/16 x 14	100	106077/16	1,475
	1/2 x 13	100	106071/2	1,475
	9/16 x 12	50	106079/16	5,176
	5/8 x 11	50	106075/8	5,176
	3/4 x 10	25	106073/4	6,114
	7/8 x 9	10	106077/8	8,957
	1" x 8	10	106071	8,957
	1.1/8 x 7	5	106071.1/8	14,497
	1.1/4 x 7	5	106071.1/4	15,919
	1.1/2 x 6	5	106071.1/2	20,470



10608

K-COIL DIN 8140 - ISO 2/6H

UNF



Acciaio inox austenitico 18/8 | Austenitic stainless steel 18/8

	Ø	 pcs.	 1,5 d cod.	€ cad/each
No.	8 x 36	100	10608N08	1,369
	10 x 32	100	10608N10	0,860
UNF	1/4 x 28	100	106081/4	0,860
	5/16 x 24	100	106085/16	0,860
	3/8 x 24	100	106083/8	1,108
	7/16 x 20	100	106087/16	1,475
	1/2 x 20	100	106081/2	1,475
	9/16 x 18	50	106089/16	5,176
	5/8 x 18	50	106085/8	5,176
	3/4 x 16	25	106083/4	6,114
	7/8 x 14	10	106087/8	8,957
	1" x 12	10	106081	8,957
	1.1/8 x 12	5	106081.1/8	14,497
1.1/4 x 12	5	106081.1/4	15,919	
1.1/2 x 12	5	106081.1/2	20,470	



10609

K-COIL DIN 8140 - ISO 2/6H

BSW



Acciaio inox austenitico 18/8 | Austenitic stainless steel 18/8

	Ø	 pcs.	 1,5 d cod.	€ cad/each
	1/8 x 40	100	106091/8	1,813
	3/16 x 24	100	106093/16	1,813
	1/4 x 20	100	106091/4	0,744
	5/16 x 18	100	106095/16	0,914
	3/8 x 16	100	106093/8	1,512
	7/16 x 14	100	106097/16	1,878
	1/2 x 12	100	106091/2	1,878
	9/16 x 12	50	106099/16	5,372
	5/8 x 11	50	106095/8	5,372
	3/4 x 10	25	106093/4	6,402
	7/8 x 9	10	106097/8	8,957
	1" x 8	10	106091	10,236

INSERTI FILETTATI IN ACCIAIO INOX
PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE
Wire-thread insert in stainless steel

10610

K-COIL DIN 8140 - ISO 2/6H

BSF



Acciaio inox austenitico 18/8 / Austenitic stainless steel 18/8

Ø	pcs.	cod.	€ cad/each
3/16 x 32	100	106103/16	1,813
1/4 x 26	100	106101/4	1,813
5/16 x 22	100	106105/16	1,813
3/8 x 20	100	106103/8	1,813
7/16 x 18	100	106107/16	1,878
1/2 x 16	100	106101/2	1,878
9/16 x 16	50	106109/16	5,372
5/8 x 14	50	106105/8	5,372
3/4 x 12	25	106103/4	6,402
7/8 x 11	10	106107/8	8,957
1" x 10	10	106101	10,236

10604

K-COIL DIN 8140 - ISO 2/6H

BSP



Acciaio inox austenitico 18/8 / Austenitic stainless steel 18/8

Ø	pcs.	cod.	€ cad/each
G 1/8 x 28	50	106041/8	1,249
1/4 x 19	50	106041/4	1,867
3/8 x 19	50	106043/8	2,194
1/2 x 14	50	106041/2	2,813
5/8 x 14	5	106045/8	7,022
3/4 x 14	5	106043/4	7,022
7/8 x 14	5	106047/8	21,548
1" x 11	5	106041	21,548

MASCHI STI PER L'INSERIMENTO
DI INSERTI FILETTATI K-COIL ISO 2
STI taps for wire thread inserts ISO 2

10612

HSS-G

FORM D ISO 1/4H

M



	Ø	cod.	€ cad/each
M	2 x 0,4	1061202X04	18,763
	2,5 x 0,45	10612025X045	18,763
	3 x 0,5	1061203X05	14,420
	3,5 x 0,6	10612035X06	14,420
	4 x 0,7	1061204X07	14,420
	5 x 0,8	1061205X08	14,420
	6 x 1	1061206X1	14,420
	7 x 1	1061207X1	17,836
	8 x 1,25	1061208X125	17,836
	8 x 1	1061208X1	17,836
	9 x 1,25	1061209X125	21,982
	10 x 1,5	1061210X15	21,982
	10 x 1,25	1061210X125	21,982
	10 x 1	1061210X1	21,982
	11 x 1,5	1061211X15	24,695
	12 x 1,75	1061212X175	30,197
	12 x 1,5	1061212X15	30,197
	12 x 1,25	1061212X125	30,197
	12 x 1	1061212X1	30,197
	14 x 2	1061214X2	34,304
	14 x 1,5	1061214X15	34,304
	14 x 1,25	1061214X125	34,304
	14 x 1	1061214X1	34,304
	16 x 2	1061216X2	41,161
	16 x 1,5	1061216X15	41,161
	18 x 2,5	1061218X25	52,153
	18 x 2	1061218X2	52,153
	18 x 1,5	1061218X15	52,153
	20 x 2,5	1061220X25	57,655
	20 x 2	1061220X2	57,655
	20 x 1,5	1061220X15	57,655
	22 x 2,5	1061222X25	65,895
	22 x 2	1061222X2	65,895
	22 x 1,5	1061222X15	65,895
	24 x 3	1061224X3	83,717
	24 x 2	1061224X2	83,717
	24 x 1,5	1061224X15	83,717

10612

HSS-G

ISO 1/4H

M



2 pcs set

	Ø	cod.	€ cad/each
M	26 x 1,5	1061226X15	331,680
	27 x 3	1061227X3	331,680
	27 x 2	1061227X2	331,680
	27 x 1,5	1061227X15	331,680
	28 x 1,5	1061228X15	374,549
	30 x 3,5	1061230X35	374,549
	30 x 2	1061230X2	374,549
	30 x 1,5	1061230X15	374,549
	33 x 3,5	1061233X35	374,549
	33 x 2	1061233X2	374,549
	36 x 4	1061236X4	415,164
	36 x 3	1061236X3	415,164
	36 x 2	1061236X2	415,164
	36 x 1,5	1061236X15	415,164

MASCHIO COMBI PER L'INSERIMENTO DI INSERTI FILETTATI ISO 2
SPECIALE PER CANDELE

Spark plug taps with pilot nose for wire thread insert ISO 2

10620

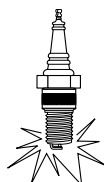
HSS-G

ISO 1/4H

M



	Ø	cod.	€ cad/each
M	6 x 1	1062006X1	28,671
	8 x 1,25	1062008X125	28,671
	10 x 1,5	1062010X15	36,220
	10 x 1,25	1062010X125	49,545
	10 x 1	1062010X1	49,545
	12 x 1,25	1062012X125	52,126
	14 x 1,25	1062014X125	60,459
	18 x 1,5	1062018X15	86,522



MASCHI STI PER L'INSERIMENTO
DI INSERTI FILETTATI K-COIL ISO 2
STI taps for wire thread inserts ISO 2

10613

HSS-G

FORM D

UNC



	Ø	cod.	€ cad/each
No.	8 x 32	10613NR08	25,021
	10 x 24	10613NR10	25,021
	12 x 24	10613NR12	25,021
UNC	1/4 x 20	106131/4	16,494
	5/16 x 18	106135/16	17,916
	3/8 x 16	106133/8	18,763
	7/16 x 14	106137/16	25,021
	1/2 x 13	106131/2	28,436
	9/16 x 12	106139/16	47,186
	5/8 x 11	106135/8	58,281
	3/4 x 10	106133/4	70,797
	7/8 x 9	106137/8	82,441
	1" x 8	106131	107,839

10615

HSS-G

FORM D

BSW



	Ø	cod.	€ cad/each
BSW	1/8 x 40	106151/8	16,494
	3/16 x 24	106153/16	16,494
	1/4 x 20	106151/4	16,494
	5/16 x 18	106155/16	17,916
	3/8 x 16	106153/8	18,763
	7/16 x 14	106157/16	25,021
	1/2 x 12	106151/2	28,436
	9/16 x 12	106159/16	47,186
	5/8 x 11	106155/8	58,281
	3/4 x 10	106153/4	70,797
	7/8 x 9	106157/8	82,441
	1" x 8	106151	107,839

10614

HSS-G

FORM D

UNF



	Ø	cod.	€ cad/each
No.	8 x 36	10614NR08	25,021
	10 x 32	10614NR10	25,021
UNF	1/4 x 28	106141/4	16,494
	5/16 x 24	106145/16	17,916
	3/8 x 24	106143/8	18,763
	7/16 x 20	106147/16	25,021
	1/2 x 20	106141/2	29,570
	9/16 x 18	106149/16	47,186
	5/8 x 18	106145/8	58,281
	3/4 x 16	106143/4	70,797
	7/8 x 14	106147/8	82,441
	1" x 12	10614112	103,406
1" x 14	10614114	103,406	

10616

HSS-G

FORM D

BSF



	Ø	cod.	€ cad/each
BSF	3/16 x 32	106163/16	17,288
	1/4 x 26	106161/4	16,494
	5/16 x 22	106165/16	17,916
	3/8 x 20	106163/8	18,763
	7/16 x 18	106167/16	25,021
	1/2 x 16	106161/2	28,436
	9/16 x 16	106169/16	49,467
	5/8 x 14	106165/8	61,071
	3/4 x 12	106163/4	74,201
	7/8 x 11	106167/8	86,391
	1" x 10	106161	107,839

10617

HSS-G

FORM D

BSP



2 pcs set

	Ø	cod.	€ cad/each
BSP	1/8 x 28	106171/8	54,760
	1/4 x 19	106171/4	73,013
	3/8 x 19	106173/8	91,085
	1/2 x 14	106171/2	105,780
	5/8 x 14	106175/8	146,029
	3/4 x 14	106173/4	219,042
	7/8 x 14	106177/8	275,994
	1" x 11	106171	340,702

10618

PUNTA ELICOIDALE PER PREFORI FIL. DANNEGGIATE

Twist drill for damaged threads



Ø	l	L	Per filetto For thread	cod.	€ cad/each
2,1	24	49	M 2 x 0,4	106180210	1,225
2,6	30	57	2,5 x 0,45	106180260	1,409
3,2	36	65	3 x 0,5	106180320	1,512
3,7	39	70	3,5 x 0,6	106180370	1,655
4,2	43	75	4 x 0,7	106180420	2,047
5,2	52	86	5 x 0,8	106180520	2,686
6,3	63	101	6 x 1	106180630	3,728
7,3	69	109	7 x 1	106180730	4,772
8,3	75	117	8 x 1,25 - 8x1	106180830	6,584
9,3	81	125	9 x 1,25	106180930	7,734
10,3	87	133	10 x 1,25 - 10x1	106181030	10,469
10,4	87	133	10 x 1,5	106181040	23,580
11,4	94	133	11 x 1,5	106181140	25,656
12,3	101	133	12 x 1,25 - 12x1	106181230	25,656
12,4	101	133	12 x 1,75 - 12x1,5	106181240	35,203

10611

UTENSILE PER LA ROTTURA DEL PERNO DI TRASCINAMENTO K-COIL

Tang break tool



Ø	N°	cod.	€ cad/each
M 2 x 0,4	2	1061102	4,434
2,5 x 0,45	3	1061103	4,434
3 x 0,5	4	1061104	4,434
3,5 x 0,6	5	1061105	4,434
4 x 0,7	6	1061106	4,434
5 x 0,8	8	1061108	4,434
6 x 1	9	1061109	4,434
7 x 1 - 8x1,25 - 8x1	11	1061111	4,981
9 x 1,25	12	1061112	4,981
10 x 1,5 - 10x1,25 - 10x1	13	1061113	4,981
11 x 1,5	14	1061114	6,011
12 x 1,75 - 12x1,5 - 12x1,25 - 12x1	15	1061115	6,011

10622

ESTRATTORE K-COIL

Extracting tool



N°	cod.	€ cad/each
2 M 3 ÷ 10 3/16 ÷ 3/8	1062202	40,940
3 M 11 ÷ 24 3/8 ÷ 1"	1062203	49,806

ACCESSORI
PER L'UTILIZZO DEGLI INSERTI FILETTATI K-COIL
Inserting tools for K-coil

10621

UTENSILE MANUALE PER INSERIRE I K-COIL

Inserting tool for K-coil



	Ø	N°	cod.	€ cad/each
M	2 x 0,4	2	1062102	13,572
	2,5 x 0,45	3	1062103	13,572
	3 x 0,5	4	1062104	12,961
	3,5 x 0,6	5	1062105	12,961
	4 x 0,7	6	1062106	12,961
	5 x 0,8	8	1062108	14,577
	6 x 1	9	1062109	14,577
	7 x 1	10	1062110	16,636
	8 x 1,25 - 8x1	11	1062111	16,636
	9 x 1,25	12	1062112	17,916
	10 x 1,5 - 10x1,25 - 10x1	13	1062113	17,916
	11 x 1,5	14	1062114	20,979
	12 x 1,75 - 12x1,5 - 12x1,25 - 12x1	15	1062115	20,979
	14 x 2 - 14x1,5	16	1062116	25,072
	14 x 1,25 - 14x1	17	1062117	25,072
	16 x 2 - 16x1,5	18	1062118	30,704
18 x 2,5 - 18x2 - 18x1,5	20	1062120	30,704	
20 x 2,5 - 20x2 - 20x1,5	21	1062121	30,704	
22 x 2,5 - 22x2 - 22x1,5	22	1062122	38,659	
24 x 2,5 - 24x2 - 24x1,5	23	1062123	38,659	

10628

INSERITORE CON ATTACCO 1/4" HEX FORM E

Inserting tool with 1/4" HEX FORM E hex shank



Per filetto <i>For thread</i>	cod.	€ cad/each
M 3	1062803X05	24,121
M 4	1062804X07	24,121
M 5	1062805X08	24,121
M 6	1062806X1	24,121
M 8	1062808X125	29,859
M 10	1062810X15	32,856
M 12	1062812X175	38,854

ACCESSORI
PER L'UTILIZZO DEGLI INSERTI FILETTATI K-COIL
Inserting tools for K-coil

10623

INSERITORE CON ATTACCO ESAGONALE DA 1/2"

Inserting tool with 1/2" hexagonal drive



	Ø	cod.	€ cad/each
M	26 x 1,5	1062326X15	48,476
	27 x 3	1062327X3	48,476
	27 x 2	1062327X2	48,476
	27 x 1,5	1062327X15	48,476
	28 x 1,5	1062328X15	48,476
	30 x 3,5	1062330X35	58,164
	30 x 2	1062330X2	58,164
	30 x 1,5	1062330X15	58,164
	33 x 3,5	1062333X35	67,551
	33 x 2	1062333X2	67,551
	36 x 4	1062336X4	67,551
	36 x 3	1062336X3	67,551
	36 x 2	1062336X2	67,551
	36 x 1,5	1062336X15	67,551

	Ø	cod.	€ cad/each
G	*1/8 x 28	10623G1/8	29,089
	*1/4 x 19	10623G1/4	29,089
	*3/8 x 19	10623G3/8	33,783
	*1/2 x 14	10623G1/2	38,776
	5/8 x 14	10623G5/8	48,476
	3/4 x 14	10623G3/4	48,476
	7/8 x 14	10623G7/8	67,551
	1" x 11	10623G1	67,551

* Attacco da 1/4"

* 1/4" hexagonal drive





**ALESATORI,
FRESE FRONTALI E
UTENSILI SALDOBRASATI**
REAMERS, END MILLS AND BRAZED TOOLS

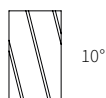
ALESATORI A MACCHINA HSS-CO A CODOLO CILINDRICO

HSS-CO machine reamers

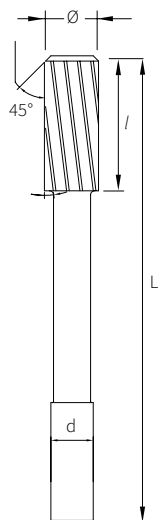
29020

HSS-CO 5%

DIN 212/2B



10°



Confezione
Packaging



Ø g6	d h9	l mm	L mm	pcs.	z	cod.	€ cad/each
3	3,0	15	61	1	6	290200300	31,215
4	4,0	19	75	1	6	290200400	31,123
5	5,0	23	86	1	6	290200500	33,268
6	6,0	26	93	1	6	290200600	33,858
7	7,0	30	109	1	6	290200700	40,067
8	8,0	32	117	1	6	290200800	41,399
9	9,0	36	125	1	6	290200900	52,340
10	10,0	38	133	1	6	290201000	48,866
11	10,0	41	142	1	8	290201100	70,008
12	10,0	44	151	1	8	290201200	74,814
13	10,0	44	151	1	8	290201300	83,463
14	12,5	47	160	1	8	290201400	86,198
15	12,5	50	162	1	8	290201500	89,008
16	12,5	52	170	1	8	290201600	93,296
17	14,0	54	175	1	8	290201700	117,839
18	14,0	56	182	1	8	290201800	120,573
19	16,0	58	189	1	10	290201900	142,013
20	16,0	60	195	1	10	290202000	136,026

Applicazioni Applications



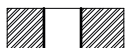
Acciaio
Steel



Metalli
Metals



Olio
Oil



H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.

Suitable for finishing operations, insidethrough holes with H7 tolerance.

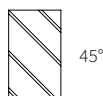
ALESATORI A MACCHINA HSS-CO A CODOLO CILINDRICO

HSS-CO machine reamers

29021

HSS-CO 5%

DIN 212/2C



45°

Per centri
a controllo
numerico CNC

For CNC numerical
control centers



Confezione
Packaging



Ø g6	d h9	l mm	L mm	pcs.	z	cod.	€ cad/each
3	3,0	15	61	1	6	290210300	36,798
4	4,0	19	75	1	6	290210400	50,381
5	5,0	23	86	1	6	290210500	52,097
6	6,0	26	93	1	6	290210600	54,525
7	7,0	30	109	1	6	290210700	60,885
8	8,0	32	117	1	6	290210800	64,959
9	9,0	36	125	1	6	290210900	67,187
10	10,0	38	133	1	6	290211000	78,038
11	10,0	41	142	1	8	290211100	103,263
12	10,0	44	151	1	8	290211200	116,412
13	10,0	44	151	1	8	290211300	103,143
14	12,5	47	160	1	8	290211400	128,796
16	12,5	52	170	1	8	290211600	151,785
18	14,0	56	182	1	8	290211800	209,456
20	16,0	60	195	1	10	290212000	217,531

Applicazioni
Applications



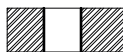
Acciaio
Steel



Metalli
Metals



Olio
Oil



H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.

Suitable for finishing operations, insidethrough holes with H7 tolerance.

Consigli d'uso

Per evitare un'usura precoce dell'utensile, è buona norma fare ruotare l'alesatore sempre e solo nel verso corretto di rotazione e lavorare con uno spessore corretto di sovrametallo da asportare. Di seguito si riporta lo spessore di sovrametallo consigliato:

Use tips

Please always rotate the reamer according to the correct sense of rotation to prevent early tool wear. Please refer to the previous table to learn the right removable stock thickness to be used.

Diametro foro (mm) Hole diameter (mm)	Spessore consigliato di sovrametallo (mm) Removable stock thickness (mm)
Ø ≤ 4	0,1
4 < Ø ≤ 11	0,2
11 < Ø ≤ 38	0,3
40 < Ø ≤ 50	0,4

Lo spessore di sovrametallo non deve essere troppo limitato, perché in tal modo l'alesatore comprime il materiale invece di tagliarlo. D'altro canto lo spessore non deve essere troppo elevato, perché l'utensile rischia di incollarsi e/o il foro generato risulta sottodimensionato.

Fori sottodimensionati si ottengono anche con velocità e avanzamenti troppo bassi o con apporti troppo limitati di lubrificante, mentre fori sovradimensionati si ottengono con parametri di taglio troppo elevati. Parametri di lavoro scorretti generano tra l'altro anche fori con una cattiva finitura.

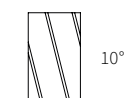
If the removable stock thickness is too little, the reamer compresses the work-piece material instead of cutting it; on the other hand, if the removable stock thickness is too high, the tool tries to stick and/or the hole you produce is too little.

You'll produce little holes also with low cutting parameters (low cutting speed, low feed, low lubricant content), whereas you'll drill bigger holes than expected if you use high cutting parameters. Please use the recommended cutting parameters to avoid any bad finishing.

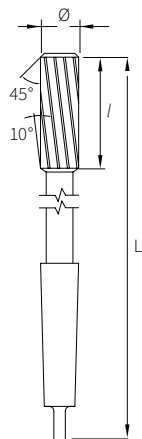
**ALESATORI A MACCHINA
A CODOLO CONICO MORSE**
Morse taper shank machine reamers

29026

HSS-CO 5% DIN 208 B



10°



Confezione
Packaging



Ø g6	M.K.	l mm	L mm	z	pcs.	cod.	€ cad/each
5	1	23	133	6	1	290260500	47,858
6	1	26	138	6	1	290260600	46,470
7	1	31	150	6	1	290260700	47,170
8	1	33	156	6	1	290260800	47,858
9	1	36	162	6	1	290260900	48,558
10	1	38	168	6	1	290261000	49,245
11	1	41	175	8	1	290261100	52,711
12	1	44	182	8	1	290261200	54,798
13	1	44	182	8	1	290261300	56,875
14	1	47	189	8	1	290261400	63,805
15	2	50	204	8	1	290261500	72,135
16	2	52	210	8	1	290261600	78,376
17	2	54	214	8	1	290261700	79,764
18	2	56	219	8	1	290261800	86,007
19	2	58	223	10	1	290261900	90,859
20	2	60	228	10	1	290262000	101,267
21	2	62	232	10	1	290262100	103,344

Ø g6	M.K.	l mm	L mm	z	pcs.	cod.	€ cad/each
22	2	64	237	10	1	290262200	110,284
23	2	66	241	10	1	290262300	117,915
24	3	68	268	10	1	290262400	142,882
25	3	68	268	10	1	290262500	142,882
26	3	70	273	10	1	290262600	160,906
27	3	71	277	10	1	290262700	162,295
28	3	71	277	10	1	290262800	177,555
30	3	73	281	10	1	290263000	196,278
31	3	75	285	12	1	290263100	210,152
32	4	77	317	12	1	290263200	245,524
34	4	78	321	12	1	290263400	273,967
35	4	78	321	12	1	290263500	283,674
36	4	79	325	12	1	290263600	300,321
38	4	81	329	12	1	290263800	327,366
40	4	81	329	12	1	290264000	361,351
45	4	83	336	12	1	290264500	439,441
50	4	86	344	12	1	290265000	497,956



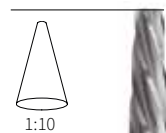
H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.

Suitable for finishing operations, inside through holes with H7 tolerance.

29039

HSS DIN 311



1:10



25°

Confezione
Packaging



Ø g6	M.K.	l mm	L mm	z	pcs.	cod.	€ cad/each
10	1	95	171	4	1	290391000	62,820
11	1	100	176	4	1	290391100	68,345
12	2	105	199	5	1	290391200	80,077
13	2	105	199	5	1	290391300	84,237
14	2	115	209	5	1	290391400	92,490
15	2	125	209	5	1	290391500	102,857
16	2	135	219	5	1	290391600	108,314
17	3	135	229	5	1	290391700	122,161
18	3	145	251	5	1	290391800	134,029
19	3	145	261	5	1	290391900	151,217
20	3	155	261	5	1	290392000	164,381
21	3	155	271	5	1	290392100	169,701

Ø g6	M.K.	l mm	L mm	z	pcs.	cod.	€ cad/each
22	3	165	271	5	1	290392200	186,208
23	3	165	281	5	1	290392300	194,120
24	3	180	281	5	1	290392400	215,879
25	3	180	296	5	1	290392500	228,156
26	3	180	296	5	1	290392600	230,680
27	3	195	311	5	1	290392700	258,372
28	3	195	311	5	1	290392800	270,991
30	3	195	311	5	1	290393000	299,365
31	3	210	326	5	1	290393100	333,400
32	4	210	354	5	1	290393200	363,617
34	4	220	364	5	1	290393400	412,181
36	4	220	364	5	1	290393600	459,790

Per alesare fori disallineati che devono essere rivettati o imbullonati insieme

Suitable for finishing operations, through misaligned holes

ALESATORI A MANICOTTO IN HSS CON TAGLIANTI ELICOIDALI E FORO CONICO 1:30

HSS shell reamers with taper bore 1:30

29040

HSS

DIN 219 B



Confezione
Packaging



Ø g6	Ø mm foro / hole	l mm	L mm	z	pcs. g6	cod.	€ cad/each
30	13	32	45	10	1	290403000	119,291
32	16	36	50	12	1	290403200	133,861
34	16	36	50	12	1	290403400	148,424
35	16	36	50	12	1	290403500	149,122
36	19	40	56	12	1	290403600	169,924
38	19	40	56	12	1	290403800	181,020
40	19	40	56	12	1	290404000	190,038
42	19	40	56	12	1	290404200	205,997
45	22	45	63	12	1	290404500	242,060
46	22	45	63	12	1	290404600	256,630
48	22	45	63	12	1	290404800	271,880
50	22	45	63	12	1	290405000	292,112
52	27	50	71	12	1	290405200	326,390
55	27	50	71	12	1	290405500	362,053
58	27	50	71	12	1	290405800	381,939
60	27	50	71	12	1	290406000	401,130

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Olio
Oil



H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi. Da utilizzare con apposito mandrino porta alesatore.

Suitable for finishing operations, inside through holes with H7 tolerance. Use with proper drill chuck.

MANDRINO PORTA ALESATORE A MANICOTTO CON ESTRATTORE

Drill chuck for shell reamers with ejecting tool

29041

HSS

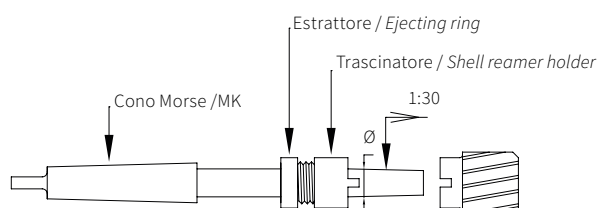
DIN 217



Confezione
Packaging



M.K.	Ø foro mm Ø hole mm	L mm	cod.	€ cad/each
3	13	250	290410313	300,649
3	16	261	290410316	323,761
4	19	298	290410419	394,402
4	22	312	290410422	444,815
5	27	359	290410527	641,868



ALESATORI A MANO IN HSS A CODOLO CILINDRICO

HSS hand reamers

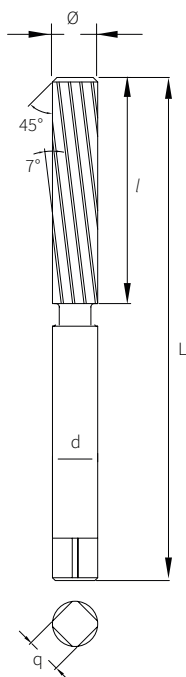
29001

HSS

DIN 206 B




7°



Confezione
Packaging



Ø g6	d e9	q mm	l mm	L mm	z	 pcs.	cod.	€ cad/each
4	4	3,0	38	76	6	1	290010400	26,743
5	5	3,8	44	87	6	1	290010500	30,644
6	6	4,9	47	93	6	1	290010600	33,059
7	7	5,5	54	107	6	1	290010700	37,097
8	8	6,2	58	115	6	1	290010800	40,318
9	9	7,0	62	124	6	1	290010900	44,355
10	10	8,0	66	133	6	1	290011000	49,186
11	11	9,0	71	142	8	1	290011100	66,118
12	12	9,0	76	152	8	1	290011200	72,573
13	13	10,0	76	152	8	1	290011300	79,024
14	14	11,0	81	163	8	1	290011400	88,697
15	15	12,0	81	163	8	1	290011500	96,761
16	16	12,0	87	175	8	1	290011600	108,864
17	17	13,0	87	175	8	1	290011700	110,473
18	18	14,5	93	188	8	1	290011800	112,083
19	19	14,5	93	188	10	1	290011900	117,732
20	20	16,0	100	201	10	1	290012000	138,691
21	21	16,0	100	201	10	1	290012100	139,495
22	22	18,0	107	215	10	1	290012200	154,816
23	23	18,0	107	215	10	1	290012300	163,684
24	24	18,0	115	231	10	1	290012400	191,108
25	25	20,0	115	231	10	1	290012500	191,914
26	26	20,0	115	231	10	1	290012600	213,687
27	27	22,0	124	247	10	1	290012700	229,815
28	28	22,0	124	247	10	1	290012800	254,811
30	30	24,0	124	247	10	1	290013000	279,807
32	32	24,0	133	265	12	1	290013200	328,188
34	34	26,0	142	284	12	1	290013400	379,790
35	35	29,0	142	284	12	1	290013500	400,758
36	36	29,0	142	284	12	1	290013600	416,081
38	38	29,0	152	305	12	1	290013800	483,809
40	40	32,0	152	305	12	1	290014000	525,737

Applicazioni Applications



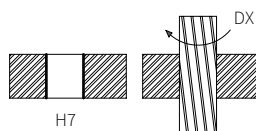
Acciaio
Steel



Metalli
Metals



Olio
Oil



Per operazioni di calibratura, lavori di manutenzione o riparazione di fori passanti in tolleranza H7.

Suitable for gauging operations, maintenance and recovery of through holes with H7 tolerance.

Sovrametallo consigliato / Recommended removable stock

Diametro foro (mm) Hole diameter (mm)	Spessore consigliato di sovrmetalto (mm) Removable stock thickness (mm)
Ø ≤ 11	0,2
11 < Ø ≤ 38	0,3
Ø = 40	0,4

ALESATORI A MANO IN HSS A CODOLO CILINDRICO

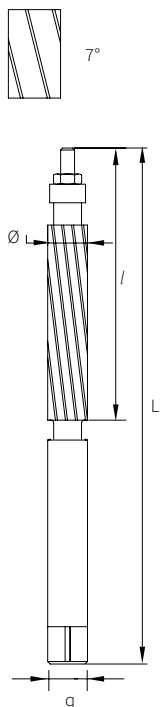
HSS hand reamers

29006

HSS

DIN 859/B

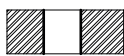
Piccola espansione 1/100 del diametro nominale
Adjustable hand reamer 1/100 nominal diameter



Confezione
Packaging



Ø mm	d e9	q mm	l mm	L mm	z	pcs.	cod.	€ cad/each
4	4	3,0	24	76	6	1	29006001	146,735
5	5	3,8	30	87	6	1	29006002	148,390
6	6	4,9	33	93	6	1	29006003	149,727
7	7	5,5	38	107	9	1	29006004	182,575
8	8	6,2	42	115	9	1	29006005	180,792
9	9	7,0	46	124	9	1	29006006	193,588
10	10	8,0	50	133	9	1	29006007	200,018
11	11	9,0	51	142	9	1	29006008	238,405
12	12	9,0	56	152	9	1	29006009	225,798
13	13	10,0	56	152	9	1	29006010	260,558
14	14	11,0	61	163	9	1	29006011	267,813
15	15	12,0	61	163	9	1	29006012	281,374
16	16	12,0	67	175	9	1	29006013	349,871
19	19	14,5	68	188	9	1	29006014	370,880
20	20	16,0	75	201	9	1	29006015	381,891
22	22	18,0	82	215	12	1	29006016	455,862
24	24	18,0	85	231	12	1	29006017	501,633
25	25	20,0	85	231	12	1	29006018	502,017
30	30	24,0	94	247	12	1	29006019	649,197
33	33	26,0	99	265	12	1	29006020	1.025,564
38	38	29,0	111	305	12	1	29006021	1.265,289

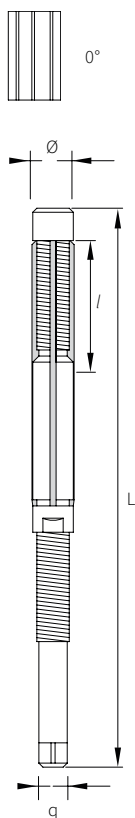


H7

29005

HSS

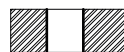
Grande espansione, lame corte
Expanding hand reamer short type



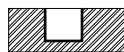
Confezione
Packaging



Ø Capacità Ø Range	q mm	l mm	L mm	z	pcs.	cod.	€ cad/each
6,4-7,2	3,0	32	110	4	1	29005001	208,935
7,2-8	3,4	32	110	4	1	29005002	211,277
8-9	3,8	34	115	5	1	29005003	213,618
9-10	4,3	34	115	5	1	29005004	225,062
10-11	4,9	34	115	5	1	29005005	234,037
11-12	4,9	35	125	5	1	29005006	231,500
12-13,5	6,2	41	135	5	1	29005007	261,478
13,5-15,5	7,0	50	146	5	1	29005008	285,603
15,5-18	8,0	60	166	5	1	29005009	288,009
18-21	9,0	65	178	5	1	29005010	315,970
21-24	11,0	76	195	5	1	29005011	389,779
24-27,5	12,0	82	218	5	1	29005012	416,050
27,5-31,5	14,5	86	245	5	1	29005013	499,220
31,5-37	18,0	98	280	6	1	29005014	682,274
37-45	20,0	108	325	6	1	29005015	881,652
45-55	26,0	118	370	6	1	29005016	1.191,447
55-65	32,0	125	400	6	1	29005017	1.551,881
67-80	39,0	140	435	8	1	29005018	2.183,596



H7



H7

Per eseguire riparazioni e lavorazioni leggere in fori ciechi e/o passanti in tolleranza H7.

Suitable for recovery and light works inside blind and/or through holes with H7 tolerance.

ALESATORI A MANO IN HSS A CODOLO CILINDRICO, CONICITÀ 1:50, PER FORI DI SPINE CONICHE

Taper pin hand reamers, taper 1:50

29010

HSS

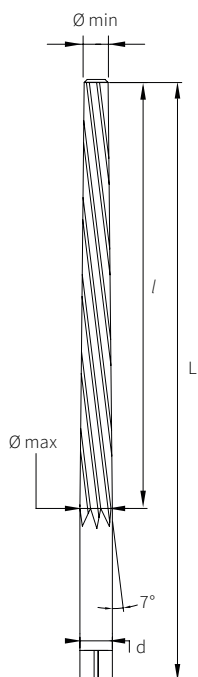
DIN 9 B



7°




1:50



q

Confezione
Packaging



Ø mm	Ø min mm	Ø max mm	q mm	l mm	L mm	z	 pcs.	cod.	€ cad/each
4	3,90	5,25	4,00	68	93	5	1	290100400	48,122
5	4,90	6,36	5,00	73	100	5	1	290100500	48,885
6	5,90	8,00	6,30	105	135	6	1	290100600	59,586
8	7,90	10,80	8,00	145	180	7	1	290100800	91,670
10	9,90	13,40	10,00	175	215	7	1	290101000	113,061
12	11,80	16,00	11,20	210	255	7	1	290101200	154,308
16	15,80	20,40	14,00	230	280	9	1	290101600	236,050
20	19,80	24,80	18,00	250	310	9	1	290102000	328,481



H7

Per operazioni di alesatura in fori di spine coniche con tolleranza H7.
Scaricare ripetutamente i trucioli durante la lavorazione.

Suitable for reaming in taper pin holes with H7 tolerance.
Please remove the chips while reaming.

Applicazioni Applications



Acciaio
Steel



Metalli
Metals



Olio
Oil

FRESE FRONTALI A 2 TAGLIENTI IN METALLO DURO INTEGRALE

Three flutes carbide end mills

Serie corta
Short serie

24150

VHM DIN 6527 K



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	50	3	2	1	241500200	31,115
3	6	50	4	2	1	241500300	31,918
4	6	54	5	2	1	241500400	32,419
5	6	54	6	2	1	241500500	33,036
6	6	54	7	2	1	241500600	34,364
8	8	58	9	2	1	241500800	41,096
10	10	66	11	2	1	241501000	63,522
12	12	73	12	2	1	241501200	93,093
14	14	75	14	2	1	241501400	129,234
16	16	82	16	2	1	241501600	148,949
18	18	84	18	2	1	241501800	227,803
20	20	92	20	2	1	241502000	243,137

24152

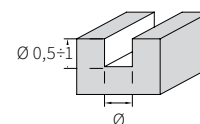
VHM **TiAlN** DIN 6527 K



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	50	3	2	1	241520200	35,782
3	6	50	4	2	1	241520300	36,705
4	6	54	5	2	1	241520400	37,282
5	6	54	6	2	1	241520500	37,992
6	6	54	7	2	1	241520600	39,518
8	8	58	9	2	1	241520800	47,261
10	10	66	11	2	1	241521000	73,050
12	12	73	12	2	1	241521200	107,057
14	14	75	14	2	1	241521400	148,619
16	16	82	16	2	1	241521600	171,291
18	18	84	18	2	1	241521800	261,973
20	20	92	20	2	1	241522000	279,607



Fresa per cave
Slot end mills



Serie extra lunga
Extra long serie

24151

VHM **NORMA KRINO**
Krino norm



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	2	1	241510300	53,005
4	4	75	25	2	1	241510400	58,474
5	5	75	30	2	1	241510500	61,267
6	6	75	30	2	1	241510600	68,475
8	8	100	40	2	1	241510800	115,740
10	10	100	40	2	1	241511000	139,875
12	12	150	45	2	1	241511200	215,201
14	14	150	45	2	1	241511400	273,170
16	16	150	65	2	1	241511600	362,481
18	18	150	65	2	1	241511800	432,184
20	20	150	65	2	1	241512000	488,039

24153

VHM **TiAlN** **NORMA KRINO**
Krino norm



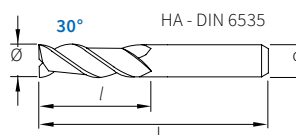
Ø mm	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	2	1	241530300	71,076
4	4	75	25	2	1	241530400	78,424
5	5	75	30	2	1	241530500	82,195
6	6	75	30	2	1	241530600	86,521
8	8	100	40	2	1	241530800	152,413
10	10	100	40	2	1	241531000	192,451
12	12	150	45	2	1	241531200	299,129
14	14	150	45	2	1	241531400	358,656
16	16	150	65	2	1	241531600	475,915
18	18	150	65	2	1	241531800	536,950
20	20	150	65	2	1	241532000	606,342



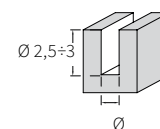
Applicazioni
Applications



Confezione
Packaging



Fresa per cave
Slot end mills



R < 850 N/mm²



Acciaio
Steel



Alluminio
Aluminum
Si 3÷12%



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30÷200



a secco
dry

FRESE FRONTALI A 3 TAGLIANTI IN METALLO DURO INTEGRALE

Three flutes carbide end mills

Serie lunga
Long serie

24161

VHM DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	57	7	3	1	241610300	43,262
4	6	57	8	3	1	241610400	41,289
5	6	57	10	3	1	241610500	41,289
6	6	57	10	3	1	241610600	41,289
8	8	63	16	3	1	241610800	50,722
9	10	72	16	3	1	241610900	72,239
10	10	72	19	3	1	241611000	73,722
12	12	83	22	3	1	241611200	107,891
14	14	83	22	3	1	241611400	140,147
16	16	92	26	3	1	241611600	176,041
18	18	92	26	3	1	241611800	251,077
20	20	104	32	3	1	241612000	276,501

24163

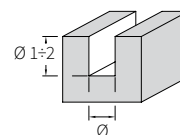
VHM **TiAIN** DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	57	7	3	1	241630300	50,616
4	6	57	8	3	1	241630400	48,319
5	6	57	10	3	1	241630500	48,319
6	6	57	10	3	1	241630600	48,319
8	8	63	16	3	1	241630800	63,323
9	10	72	16	3	1	241630900	91,154
10	10	72	19	3	1	241631000	92,048
12	12	83	22	3	1	241631200	134,492
14	14	83	22	3	1	241631400	174,741
16	16	92	26	3	1	241631600	213,993
18	18	92	26	3	1	241631800	301,294
20	20	104	32	3	1	241632000	336,101



Fresa per cave
Slot end mills



Serie extra lunga
Extra long serie

24162

VHM **NORMA KRINO**
Krino norm



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	3	1	241620300	49,655
4	4	75	25	3	1	241620400	54,459
5	5	75	30	3	1	241620500	60,065
6	6	75	30	3	1	241620600	78,485
8	8	100	40	3	1	241620800	100,910
10	10	100	40	3	1	241621000	132,944
12	12	150	45	3	1	241621200	195,496
16	16	150	65	3	1	241621600	364,705
20	20	150	65	3	1	241622000	479,702

24164

VHM **TiAIN** **NORMA KRINO**
Krino norm



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	3	1	241640300	68,752
4	4	75	25	3	1	241640400	75,405
5	5	75	30	3	1	241640500	83,169
6	6	75	30	3	1	241640600	108,671
8	8	100	40	3	1	241640800	139,722
10	10	100	40	3	1	241641000	184,077
12	12	150	45	3	1	241641200	263,919
16	16	150	65	3	1	241641600	492,352
20	20	150	65	3	1	241642000	647,599



Confezione
Packaging

Applicazioni
Applications

R < 850 N/mm²



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum
Si 3÷12%



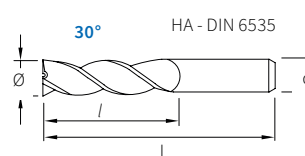
Emulsione
Lubrificanti



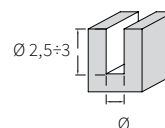
Ghisa
Cast Iron
HB30÷200



a secco
dry



Fresa per cave
Slot end mills



FRESE FRONTALI A 3 TAGLIENTI IN METALLO DURO INTEGRALE

RIV. TiAlN ATTACCO HB-DIN 6535

Four and three flutes carbide end mills TiAlN coated

Minifresa
Mini end mills

24181

VHM

TiAlN

NORMA KRINO
Carbide



Ø e8	d mm	L mm	l mm	z	pcs. cubes	cod.	€ cad/each
0,5	3	38	1,5	3	1	241810050	32,365
1	3	38	2	3	1	241810100	29,462
1,5	3	38	2	3	1	241810150	29,462
2	6	38	4	3	1	241810200	33,170
2,5	6	38	5	3	1	241810250	35,434
3	6	38	5	3	1	241810300	33,170
3,5	6	38	6	3	1	241810350	35,434
4	6	38	7	3	1	241810400	34,183
4,5	6	38	8	3	1	241810450	38,948
5	6	38	8	3	1	241810500	37,518
6	6	38	8	3	1	241810600	37,518
8	8	43	11	3	1	241810800	51,869
10	10	50	13	3	1	241811000	74,917
12	12	55	15	3	1	241811200	90,401

Applicazioni
Applications

R < 850 N/mm²



Acciaio
Steel



Metalli
Metals

R > 750 N/mm²



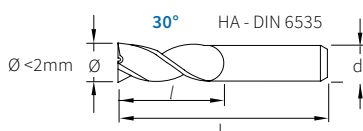
Inco
Stainless



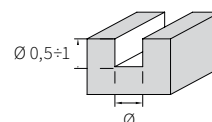
Alluminio
Aluminum
Si 3÷12%



Emulsione
Lubrificant



Mini fresa per cave
Mini slot end mills



Serie lunga
Long serie

24184

VHM

TiAlN

DIN 6527 L
Carbide



Ø h10	d mm	L mm	l mm	z	pcs. cubes	cod.	€ cad/each
2	6	57	6	3	1	241840200	56,983
3	6	57	7	3	1	241840300	56,983
4	6	57	8	3	1	241840400	54,542
5	6	57	10	3	1	241840500	54,542
6	6	57	10	3	1	241840600	54,542
8	8	63	16	3	1	241840800	70,507
9	10	72	16	3	1	241840900	97,690
10	10	72	19	3	1	241841000	101,072
12	12	83	22	3	1	241841200	144,081
14	14	83	22	3	1	241841400	185,839
16	16	92	26	3	1	241841600	232,255
18	18	92	26	3	1	241841800	327,106
20	20	104	32	3	1	241842000	364,462

R < 850 N/mm²

Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminum
Si 3÷12%



Emulsione
Lubrificant



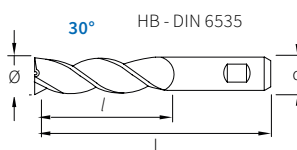
Ghisa
Cast Iron
HB30<200



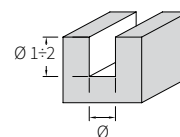
a secco
dry



Confezione
Packaging



Fresa per cave
Slot end mills



FRESE FRONTALI A 4 TAGLIENTI IN METALLO DURO INTEGRALE

Four flutes carbide end mills

Serie lunga
Long serie

24165

VHM DIN 6527 K



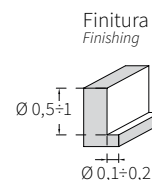
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	50	4	4	1	241650200	37,447
3	6	50	5	4	1	241650300	33,797
4	6	54	8	4	1	241650400	30,302
5	6	54	9	4	1	241650500	30,302
6	6	54	10	4	1	241650600	33,630
8	8	58	12	4	1	241650800	42,355
10	10	66	14	4	1	241651000	64,605
12	12	73	16	4	1	241651200	96,599
14	14	75	18	4	1	241651400	124,464
16	16	82	22	4	1	241651600	160,493
18	18	84	24	4	1	241651800	237,494
20	20	92	26	4	1	241652000	252,203

24167

VHM TiAIN DIN 6527 K



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	50	4	4	1	241670200	43,097
3	6	50	5	4	1	241670300	38,896
4	6	54	8	4	1	241670400	36,349
5	6	54	9	4	1	241670500	36,349
6	6	54	10	4	1	241670600	44,116
8	8	58	12	4	1	241670800	63,022
10	10	66	14	4	1	241671000	92,434
12	12	73	16	4	1	241671200	119,744
14	14	75	18	4	1	241671400	159,657
16	16	82	22	4	1	241671600	205,874
18	18	84	24	4	1	241671800	304,609
20	20	92	26	4	1	241672000	323,516



Serie lunga
Long serie

24166

VHM DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	7	4	1	241660200	49,481
3	6	57	8	4	1	241660300	42,060
4	6	57	11	4	1	241660400	38,641
5	6	57	13	4	1	241660500	38,069
6	6	57	13	4	1	241660600	37,977
8	8	63	19	4	1	241660800	46,571
9	10	72	19	4	1	241660900	83,006
10	10	72	22	4	1	241661000	74,003
12	12	83	26	4	1	241661200	100,479
14	14	83	26	4	1	241661400	143,296
16	16	92	32	4	1	241661600	173,755
18	18	92	32	4	1	241661800	244,267
20	20	104	38	4	1	241662000	268,314

24168

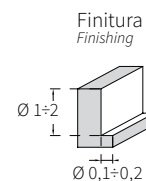
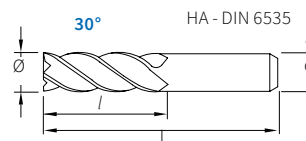
VHM TiAIN DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	7	4	1	241680200	56,861
3	6	57	8	4	1	241680300	48,902
4	6	57	11	4	1	241680400	46,327
5	6	57	13	4	1	241680500	45,708
6	6	57	13	4	1	241680600	52,519
8	8	63	19	4	1	241680800	75,805
9	10	72	19	4	1	241680900	105,294
10	10	72	22	4	1	241681000	106,742
12	12	83	26	4	1	241681200	138,997
14	14	83	26	4	1	241681400	172,008
16	16	92	32	4	1	241681600	213,893
18	18	92	32	4	1	241681800	302,891
20	20	104	38	4	1	241682000	340,667



Confezione
Packaging



Applicazioni
Applications

R < 850 N/mm²



Acciaio
Steel

R < 1000 N/mm²



Metalli
Metals



Alluminio
Aluminum
Sj 3÷12%



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30÷200



a secco
dry

**FRESE FRONTALI A 4 TAGLIENTI
IN METALLO DURO INTEGRALE**
Four flutes carbide end mills

Serie lunga
Long serie

24183

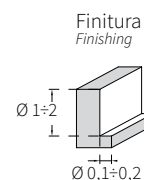
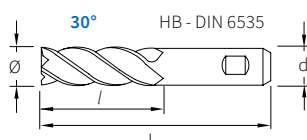
VHM

TiAlN

DIN 6527 L
Carbide



Ø h10	d mm	L mm	l mm	z	pcs. 	cod.	€ cad/each
2	2	57	7	4	1	241830200	58,241
3	3	57	8	4	1	241830300	50,820
4	4	57	11	4	1	241830400	49,310
5	5	57	13	4	1	241830500	49,310
6	6	57	13	4	1	241830600	49,310
8	8	63	19	4	1	241830800	62,534
9	9	72	19	4	1	241830900	99,434
10	10	72	22	4	1	241831000	92,404
12	12	83	26	4	1	241831200	128,279
14	14	83	26	4	1	241831400	175,196
16	16	92	32	4	1	241831600	211,433
18	18	92	32	4	1	241831800	307,190
20	20	104	38	4	1	241832000	336,711



Serie lunga
Long serie

24182

VHM

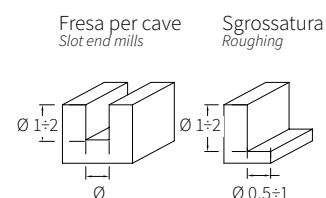
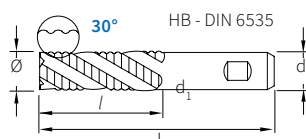
TiAlN

DIN 6527 L
Carbide



Ø h10	d mm	L mm	l mm	z	pcs. 	cod.	€ cad/each
6	6	57	13	4	1	241820600	134,830
8	8	63	19	4	1	241820800	154,224
10	10	72	22	4	1	241821000	168,836
12	12	83	26	4	1	241821200	200,259
14	14	83	26	4	1	241821400	279,922
16	16	92	32	4	1	241821600	380,401
18	18	92	32	4	1	241821800	422,993
20	20	104	38	4	1	241822000	464,691

Rompitruciolo tipo NRF
Chip-breaker NRF type



Applicazioni
Applications

R < 1200 N/mm²



Acaccia
Steel

R < 750 N/mm²



Inox
Stainless



Alluminio
Aluminum
Si > 5%



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30<200



a secco
dry

FRESE FRONTALI A 4 TAGLIANTI A ELICA VARIABILE IN METALLO DURO INTEGRALE

Four flutes carbide end mills with variable helix

Serie lunga
Long serie

24169

VHM DIN 6527 L



Ø h10	d mm	d ₁ mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	3,7	57	11	4	1	241690400	46,790
5	6	4,7	57	13	4	1	241690500	46,790
6	6	5,5	57	13	4	1	241690600	45,835
8	8	7,5	63	19	4	1	241690800	53,473
10	10	9,2	72	22	4	1	241691000	89,762
12	12	11,2	83	26	4	1	241691200	127,955
14	14	13,2	83	26	4	1	241691400	173,789
16	16	15,0	92	32	4	1	241691600	211,986
18	18	17,0	92	32	4	1	241691800	305,564
20	20	19,0	104	38	4	1	241692000	353,309

24171

VHM TiAIN DIN 6527 L



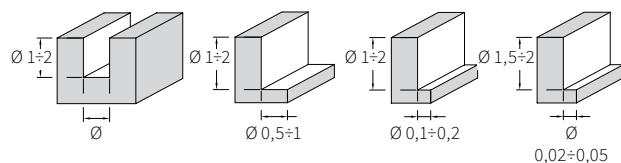
Ø h10	d mm	d ₁ mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	3,7	57	11	4	1	241710400	53,135
5	6	4,7	57	13	4	1	241710500	53,135
6	6	5,5	57	13	4	1	241710600	64,685
8	8	7,5	63	19	4	1	241710800	89,328
10	10	9,2	72	22	4	1	241711000	135,533
12	12	11,2	83	26	4	1	241711200	172,496
14	14	13,2	83	26	4	1	241711400	232,561
16	16	15,0	92	32	4	1	241711600	298,787
18	18	17,0	92	32	4	1	241711800	412,758
20	20	19,0	104	38	4	1	241712000	465,122

Fresa per cave
Slot end mills

Sgrossatura
Roughing

Finitura
Finishing

Superfinitura
Superfinishing



Serie extra lunga
Extra long serie

24170

VHM NORMA KRINO
Krino norm



Ø mm	d mm	d ₁ mm	L mm	l mm	z	pcs.	cod.	€ cad/each
10	10	9,2	100	40	4	1	241701000	182,079
12	12	11,2	150	45	4	1	241701200	291,327
14	14	13,2	150	45	4	1	241701400	386,007
16	16	15,0	150	65	4	1	241701600	517,104
18	18	17,0	150	65	4	1	241701800	582,652
20	20	19,0	150	65	4	1	241702000	680,973

24172

VHM TiAIN NORMA KRINO
Krino norm

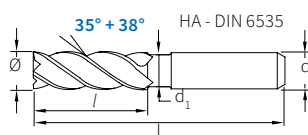


Ø mm	d mm	d ₁ mm	L mm	l mm	z	pcs.	cod.	€ cad/each
10	10	9,2	100	40	4	1	241721000	223,172
12	12	11,2	150	45	4	1	241721200	320,612
14	14	13,2	150	45	4	1	241721400	568,008
16	16	15,0	150	65	4	1	241721600	588,784
18	18	17,0	150	65	4	1	241721800	852,012
20	20	19,0	150	65	4	1	241722000	830,855



Confezione
Packaging

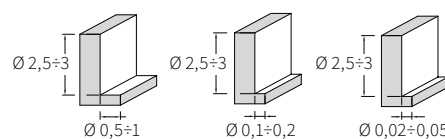
Eliche variabili 35°-38°
Variable helix 35°-38°



Sgrossatura
Roughing

Finitura
Finishing

Superfinitura
Superfinishing



Applicazioni
Applications

R < 1600 N/mm²

R > 750 N/mm²



Acciaio
Steel



Inox
Stainless



Alluminio
Aluminum
Si 3-12%



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30-200



a secco
dry

FRESE FRONTALI A 4 TAGLIANTI A ELICA VARIABILE IN METALLO DURO INTEGRALE - SPECIALI PER INOX

Four flutes carbide end mills with variable helix

Serie lunga
Long serie

24174

VHM

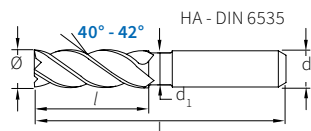
TiAIN

DIN 6527 L
Carbide

Speciale inox / Stainless steel



Ø h10	d mm	d ₁ mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	3,7	57	11	4	1	241740400	75,744
5	6	4,7	57	13	4	1	241740500	75,744
6	6	5,5	57	13	4	1	241740600	92,688
8	8	7,5	63	19	4	1	241740800	129,563
10	10	9,2	72	22	4	1	241741000	193,349
12	12	11,2	83	26	4	1	241741200	247,167
16	16	15,0	92	32	4	1	241741600	426,563
20	20	19,0	104	38	4	1	241742000	657,783



Confezione
Packaging

Applicazioni
Applications

R < 750 N/mm²



Inox
Stainless

R < 1000 N/mm²



Acciaio
Steel



Alluminio
Aluminum
Si < 3%



Emulsione
Lubrificant

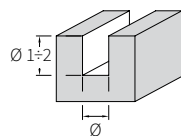


Ghisa
Cast Iron
HB30<200

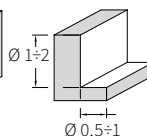


a secco
dry

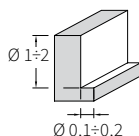
Fresa per cave
Slot end mills



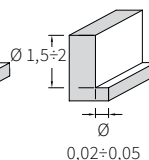
Sgrossatura
Roughing



Finitura
Finishing



Superfinitura
Superfinishing



24175

VHM

TiAIN

DIN 6527 L
Carbide

Speciale inox / Stainless steel



Ø h10	d mm	d ₁ mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	3,7	57	11	4	1	241750400	78,242
5	6	4,7	57	13	4	1	241750500	78,242
6	6	5,5	57	13	4	1	241750600	95,744
8	8	7,5	63	19	4	1	241750800	133,835
10	10	9,2	72	22	4	1	241751000	199,722
12	12	11,2	83	26	4	1	241751200	255,315
16	16	15,0	92	32	4	1	241751600	440,625
20	20	19,0	104	38	4	1	241752000	679,468

HB - DIN 6535



FRESE FRONTALI A 6 E PIÙ TAGLIENTI PER SUPERFINITURA IN METALLO DURO INTEGRALE RIV. TIALN

Two-flutes carbide end mills

Serie lunga
Long serie

24177

VHM

TiAlN

≈ DIN 6527 L

24185

VHM

TiAlN

≈ DIN 6527 L



Per materiali con HRC < 50 / Suitable for materials with HRC < 50

Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	57	8	6	1	241770300	64,820
4	6	57	11	6	1	241770400	61,410
5	6	57	13	6	1	241770500	58,851
6	6	57	13	6	1	241770600	58,851
8	8	63	19	6	1	241770800	69,938
10	10	72	22	6	1	241771000	112,582
12	12	83	26	6	1	241771200	151,815
14	14	83	26	6	1	241771400	208,106
16	16	92	32	6	1	241771600	272,926
18	18	92	32	8	1	241771800	318,983
20	20	104	38	8	1	241772000	383,515
25	25	121	45	10	1	241772500	630,298

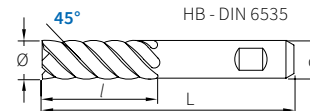
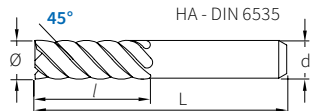


Per materiali con HRC < 50 / Suitable for materials with HRC < 50

Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	57	13	6	1	241850600	64,533
8	8	63	19	6	1	241850800	76,740
10	10	72	22	6	1	241851000	122,089
12	12	83	26	6	1	241851200	162,202
14	14	83	26	6	1	241851400	226,736
16	16	92	32	6	1	241851600	287,779
18	18	92	32	8	1	241851800	338,360
20	20	104	38	8	1	241852000	415,101
25	25	121	45	10	1	241852500	676,719



Confezione
Packaging



Applicazioni
Applications

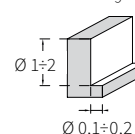
R < 750 N/mm²



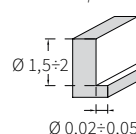
R < 1600 N/mm²



Finitura
Finishing



Superfinitura
Superfinishing



Serie extra lunga
Extra long serie

24178

VHM

TiAlN

NORMA KRINO
Krino norm

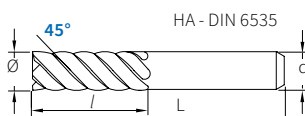


Confezione
Packaging

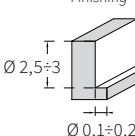


Per materiali con HRC < 50 / Suitable for materials with HRC < 50

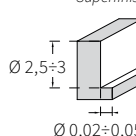
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	75	30	6	1	241780600	91,232
8	8	100	40	6	1	241780800	106,126
10	10	100	40	6	1	241781000	188,048
12	12	150	45	6	1	241781200	260,659
16	16	150	65	6	1	241781600	469,189
20	20	150	65	8	1	241782000	714,953
25	25	150	75	10	1	241782500	1.459,231



Finitura
Finishing



Superfinitura
Superfinishing



Applicazioni
Applications

R < 750 N/mm²



R < 1600 N/mm²



FRESE FRONTALI A 6 E PIÙ TAGLIENTI PER SUPERFINITURA IN METALLO DURO INTEGRALE RIV. TIALN

Two-flutes carbide end mills

Serie lunga
Long serie

24186

VHM

TiAlN

≈ DIN 6527 L



Confezione
Packaging



Per materiali con HRC < 62 / Suitable for materials with HRC < 62

Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	57	8	6	1	241860300	94,874
4	6	57	11	6	1	241860400	97,469
5	6	57	13	6	1	241860500	99,749
6	6	57	13	6	1	241860600	100,248
8	8	63	19	6	1	241860800	121,587
10	10	72	22	6	1	241861000	195,495
12	12	83	26	6	1	241861200	263,027
14	14	83	26	6	1	241861400	352,487
16	16	92	32	6	1	241861600	486,531
18	18	92	32	8	1	241861800	513,834
20	20	104	38	8	1	241862000	659,640

Applicazioni
Applications



Acciaio
Steel
HRC<62



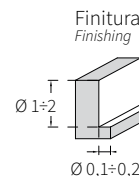
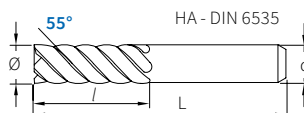
Emulsione
Lubrificant



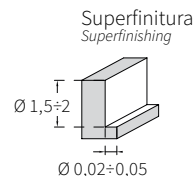
Ghisa
Cast Iron
HB30~200



a secco
dry



Finitura
Finishing



Superfinitura
Superfinishing

Serie lunga
Long serie

24176

VHM

TiAlN

≈ DIN 6527 L

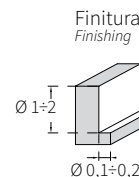
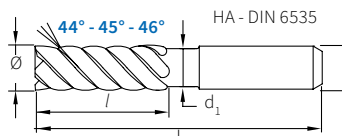


Confezione
Packaging

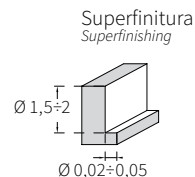


Universele - Elica variabile / Universal - Variable helix

Ø h10	d mm	d ₁ mm	L mm	l mm	z	pcs.	cod.	€ cad/each
8	8	7,5	63	19	6	1	241760800	116,488
10	10	9,2	72	22	6	1	241761000	186,973
12	12	11,2	83	26	6	1	241761200	251,299
16	16	15,0	92	32	6	1	241761600	450,594
20	20	19,0	104	38	6	1	241762000	649,733
25	25	23,5	121	45	6	1	241762500	1.047,193



Finitura
Finishing



Superfinitura
Superfinishing

Applicazioni
Applications



R < 750 N/mm²
Inox
Stainless



R < 1600 N/mm²
Acciaio
Steel



Alluminio
Aluminum
Si 3~12%



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30~200



a secco
dry

FRESE FRONTALI IN METALLO DURO INTEGRALE PER ALLUMINIO

Carbide end mills for aluminium

Serie corta
Short serie

24154

VHM

DIN 6527 K



Confezione
Packaging



Ø e8	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	50	4	2	1	241540300	33,371
4	6	54	5	2	1	241540400	33,371
5	6	54	6	2	1	241540500	33,371
6	6	54	7	2	1	241540600	33,371
8	8	58	9	2	1	241540800	40,043
10	10	66	11	2	1	241541000	53,905
12	12	73	12	2	1	241541200	85,990
14	14	75	14	2	1	241541400	119,362
16	16	82	16	2	1	241541600	128,345
18	18	84	18	2	1	241541800	174,550
20	20	92	20	2	1	241542000	231,022

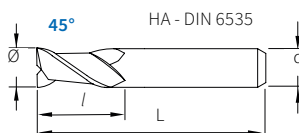
Applicazioni
Applications



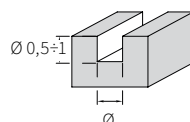
Alluminio
Aluminum
Si<12%



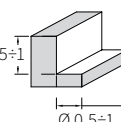
Emulsione
Lubrificant



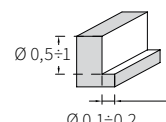
Fresa per cave
Slot end mills



Sgrossatura
Roughing



Finitura
Finishing



Serie extra lunga
Extra long serie

24155

VHM

NORMA KRINO
Krino norm



Confezione
Packaging



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
5	5	75	30	2	1	241550500	65,329
6	6	75	30	2	1	241550600	88,712
8	8	100	40	2	1	241550800	107,222
10	10	100	40	2	1	241551000	150,317
12	12	150	45	2	1	241551200	236,565
16	16	150	65	2	1	241551600	433,704

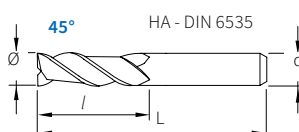
Applicazioni
Applications



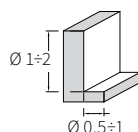
Alluminio
Aluminum
Si<3%



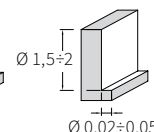
Emulsione
Lubrificant



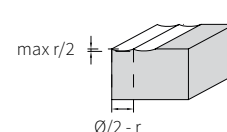
Fresa per cave
Slot end mills



Sgrossatura
Roughing



Frese per copiatori
Ball nose end mills



Nella lavorazione di alluminio, superleghe di titanio e quando ci sia pericolo di incollaggio trucioli si consiglia l'uso di fresatura concorde, che è anche indicata nel caso di lavorazioni di spessori sottili, perché le forze di taglio aiutano a tenere saldo il pezzo in lavorazione.

When machining aluminum, titanium superalloys and whenever there is a risk of chip bonding, we recommend the use of concordant milling, which is also suitable for thin-wall machining, because the cutting forces help to keep the workpiece firmly in place.

FRESE FRONTALI IN METALLO DURO INTEGRALE PER ALLUMINIO

Carbide end mills for aluminium

Serie lunga
Long serie

24180

VHM

NORMA KRINO
Krino norm



Metallo duro
Carbide



Confezione
Packaging



Speciale alluminio / Aluminium

HA

Ø h10	d mm	d ₁ mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	2,7	57	8	3	1	241800300	60,005
4	6	3,7	57	11	3	1	241800400	60,917
5	6	4,7	57	13	3	1	241800500	61,210
6	6	5,5	57	13	3	1	241800600	58,600
8	8	7,5	63	16	3	1	241800800	77,267
10	10	9,2	72	19	3	1	241801000	108,027
12	12	11,2	83	22	3	1	241801200	155,925
16	16	11,2	92	32	3	1	241801600	266,697
20	20	19,0	104	38	3	1	241802000	423,882

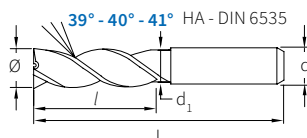
Applicazioni
Applications



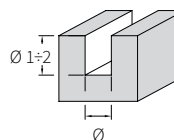
Alluminio
Aluminum



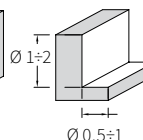
Emulsione
Lubricant



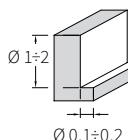
Fresa per cave
Slot end mills



Sgrossatura
Roughing



Finitura
Finishing



Le eliche variabili garantiscono minori vibrazioni, migliore finitura, maggiore rendimento.
The variable helix ensures less vibration, better finishing, higher efficiency.

Serie lunga
Long serie

24156

VHM

~ DIN 6527 L



Taglienti raggati
Corner radius



Confezione
Packaging



Canalina di lubrorefrigerazione / Cooling System

Ø h10	d mm	d ₁ mm	L mm	l mm	r mm	z	pcs.	cod.	€ cad/each
6	6	5,7	57	10	1	3	1	241560600	90,902
8	8	7,7	63	16	1	3	1	241560800	102,265
10	10	9,5	72	19	1,5	3	1	241561000	181,806
12	12	11,5	83	22	1,5	3	1	241561200	263,618
16	16	15,5	92	26	2	3	1	241561600	420,424
20	20	19,5	104	32	2,5	3	1	241562000	595,412

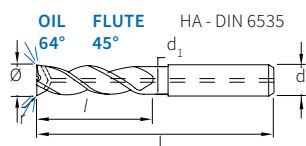
Applicazioni
Applications



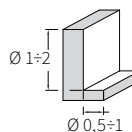
Alluminio
Aluminum
Si<12%



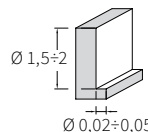
Emulsione
Lubricant



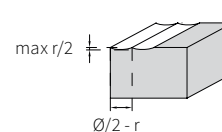
Sgrossatura
Roughing



Superfinitura
Superfinishing



Frese per copiatori
Ball nose end mills



FRESE FRONTALI A RAGGIO IN METALLO DURO INTEGRALE

Carbide end mills with ball end

Serie lunga
Long serie

24157

VHM DIN 6527 L

24159

VHM

TiAIN

DIN 6527 L



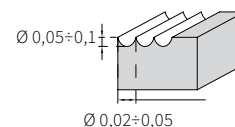
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	6	2	1	241570200	46,862
3	6	57	7	2	1	241570300	46,547
4	6	57	8	2	1	241570400	45,506
5	6	57	10	2	1	241570500	46,547
6	6	57	10	2	1	241570600	45,506
8	8	63	16	2	1	241570800	54,158
10	10	72	19	2	1	241571000	69,108
12	12	83	22	2	1	241571200	103,225
14	14	83	22	2	1	241571400	132,740
16	16	92	26	2	1	241571600	163,188
18	18	92	26	2	1	241571800	196,207
20	20	104	32	2	1	241572000	260,114



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	6	2	1	241590200	62,016
3	6	57	7	2	1	241590300	57,309
4	6	57	8	2	1	241590400	57,309
5	6	57	10	2	1	241590500	57,309
6	6	57	10	2	1	241590600	57,309
8	8	63	16	2	1	241590800	68,252
10	10	72	19	2	1	241591000	87,110
12	12	83	22	2	1	241591200	130,062
14	14	83	22	2	1	241591400	167,264
16	16	92	26	2	1	241591600	205,615
18	18	92	26	2	1	241591800	247,186
20	20	104	32	2	1	241592000	327,742



Frese per copiatori
Ball nose end mills



Serie extra lunga
Extra Long serie

24158

VHM NORMA KRINO
Krino norm

24160

VHM

TiAIN

NORMA KRINO
Krino norm



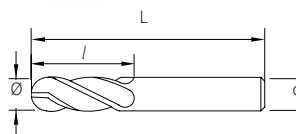
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	2	1	241580300	81,999
4	4	75	25	2	1	241580400	83,798
5	5	75	30	2	1	241580500	93,741
6	6	75	30	2	1	241580600	104,585
8	8	100	40	2	1	241580800	119,028
10	10	100	40	2	1	241581000	160,500
12	12	150	45	2	1	241581200	212,717



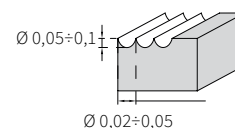
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	2	1	241600300	117,258
4	4	75	25	2	1	241600400	119,878
5	5	75	30	2	1	241600500	134,051
6	6	75	30	2	1	241600600	149,535
8	8	100	40	2	1	241600800	170,259
10	10	100	40	2	1	241601000	229,515
12	12	150	45	2	1	241601200	304,252



Confezione
Packaging



Frese per copiatori
Ball nose end mills



Applicazioni
Applications

R < 850 N/mm²



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum
Si 3÷12%



Emulsione
Lubrificant

FRESE FRONTALI A RAGGIO IN METALLO DURO INTEGRALE

Carbide end mills with ball end

Serie lunga
Long serie

24179

VHM

TiAlN

DIN 6528



Confezione
Packaging



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	4	50	11	4	1	241790400	54,028
5	5	50	13	4	1	241790500	58,415
6	6	57	13	4	1	241790600	60,236
8	8	63	19	4	1	241790800	75,844
10	10	72	22	4	1	241791000	104,484
12	12	83	26	4	1	241791200	142,706
14	14	83	26	4	1	241791400	175,616
16	16	92	32	4	1	241791600	221,781
18	18	92	32	4	1	241791800	280,209
20	20	104	38	4	1	241792000	344,061

Applicazioni
Applications

R < 1200 N/mm²



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum
Si 3÷12%



Emulsione
Lubrificant

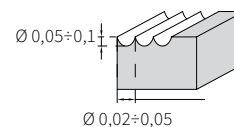


Ghisa
Cast Iron
HB30÷200



a secco
dry

Frese per copiatori
Ball nose end mills



FRESE FRONTALI CILINDRICHE A 2 TAGLIANTI IN HSS-CO 8% CON ATTACCO WELDON

HSS-CO 8% two flutes end mills, Weldon shank

Serie corta
Short serie

24001

HSS-CO 8% DIN 327 D



Ø	tol.	d	L	l	z	pcs.	cod.	€
mm		mm	mm	mm				cad/each
2	e8	6	48	4	2	1	240010200	15,730
2,5	e8	6	49	5	2	1	240010250	16,977
3	e8	6	49	5	2	1	240010300	15,730
3,5	h10	6	51	7	2	1	240010350	16,903
4	e8	6	51	7	2	1	240010400	15,730
4,5	h10	6	52	8	2	1	240010450	16,903
5	e8	6	52	8	2	1	240010500	15,730
5,5	h10	6	52	8	2	1	240010550	16,903
6	e8	6	52	8	2	1	240010600	15,730
6,5	h10	10	60	10	2	1	240010650	24,321
7	e8	10	60	10	2	1	240010700	24,321
7,5	h10	10	61	11	2	1	240010750	24,321
8	e8	10	61	11	2	1	240010800	22,583
8,5	h10	10	61	11	2	1	240010850	24,321
9	h10	10	61	11	2	1	240010900	24,321
9,5	h10	10	63	13	2	1	240010950	24,321
10	e8	10	63	13	2	1	240011000	22,583
11	h10	12	73	16	2	1	240011100	32,281
12	e8	12	73	16	2	1	240011200	30,063
13	h10	12	73	16	2	1	240011300	34,774
14	e8	12	73	16	2	1	240011400	34,082
15	h10	12	79	19	2	1	240011500	41,085
16	e8	16	79	19	2	1	240011600	41,702
18	e8	16	79	19	2	1	240011800	50,014
20	e8	20	88	22	2	1	240012000	59,713

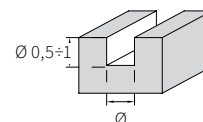
24003

HSS-CO 8% TiAIN DIN 327 D



Ø	tol.	d	L	l	z	pcs.	cod.	€
mm		mm	mm	mm				cad/each
2	e8	6	48	4	2	1	240030200	23,976
2,5	e8	6	49	5	2	1	240030250	26,466
3	e8	6	49	5	2	1	240030300	24,107
3,5	h10	6	51	7	2	1	240030350	24,894
4	e8	6	51	7	2	1	240030400	23,131
4,5	h10	6	52	8	2	1	240030450	25,357
5	e8	6	52	8	2	1	240030500	22,999
5,5	h10	6	52	8	2	1	240030550	24,500
6	e8	6	52	8	2	1	240030600	22,402
6,5	h10	10	60	10	2	1	240030650	31,249
7	e8	10	60	10	2	1	240030700	31,066
7,5	h10	10	61	11	2	1	240030750	32,817
8	e8	10	61	11	2	1	240030800	29,815
8,5	h10	10	61	11	2	1	240030850	32,192
9	h10	10	61	11	2	1	240030900	33,146
9,5	h10	10	63	13	2	1	240030950	34,196
10	e8	10	63	13	2	1	240031000	34,556
11	h10	12	73	16	2	1	240031100	42,422
12	e8	12	73	16	2	1	240031200	39,982
13	h10	12	73	16	2	1	240031300	46,082
14	e8	12	73	16	2	1	240031400	43,506
15	h10	12	79	19	2	1	240031500	51,170
16	e8	16	79	19	2	1	240031600	57,325
18	e8	16	79	19	2	1	240031800	65,187
20	e8	20	88	22	2	1	240032000	79,003

Fresa per cave
Slot end mills



24002

HSS-CO 8% DIN 844 L



Ø	d	L	l	z	pcs.	cod.	€
h10	mm	mm	mm				cad/each
3	6	56	12	2	1	240020300	25,492
4	6	63	19	2	1	240020400	25,492
5	6	68	24	2	1	240020500	25,492
6	6	68	24	2	1	240020600	25,492
8	10	88	38	2	1	240020800	35,882
10	10	95	45	2	1	240021000	35,882
12	12	110	53	2	1	240021200	47,660
14	12	110	53	2	1	240021400	55,116
16	16	123	63	2	1	240021600	67,365
18	16	123	63	2	1	240021800	89,603
20	20	141	75	2	1	240022000	100,583



Confezione
Packaging

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificante



Ghisa
Cast Iron
HB30<200



a secco
dry

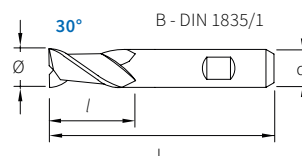
Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

24004

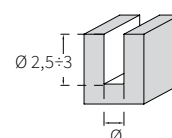
HSS-CO 8% TiAIN DIN 844 L



Ø	d	L	l	z	pcs.	cod.	€
h10	mm	mm	mm				cad/each
3	6	56	12	2	1	240040300	35,854
4	6	63	19	2	1	240040400	36,694
5	6	68	24	2	1	240040500	36,694
6	6	68	24	2	1	240040600	35,089
8	10	88	38	2	1	240040800	46,082
10	10	95	45	2	1	240041000	46,379
12	12	110	53	2	1	240041200	58,956
14	12	110	53	2	1	240041400	76,351
16	16	123	63	2	1	240041600	101,197
18	16	123	63	2	1	240041800	121,075
20	20	141	75	2	1	240042000	140,200



Fresa per cave
Slot end mills



**FRESE FRONTALI CILINDRICHE A 3 TAGLIANTI
IN HSS-CO 8% CON ATTACCO WELDON**
HSS-CO 8% three flutes end mills, Weldon shank

Serie corta
Short serie

24009

HSS-CO 8% DIN 844 K

Ø e8	d mm	L mm	l mm	z	pcs.	cod.	€
							cad/each
3	6	52	13	3	1	240090300	18,481
4	6	55	13	3	1	240090400	18,481
5	6	57	13	3	1	240090500	18,481
6	6	57	13	3	1	240090600	18,546
8	10	69	19	3	1	240090800	25,155
10	10	72	22	3	1	240091000	24,576
12	12	79	22	3	1	240091200	32,641
14	12	83	26	3	1	240091400	41,126
16	16	92	32	3	1	240091600	46,624
18	16	92	32	3	1	240091800	60,161
20	20	104	38	3	1	240092000	68,715



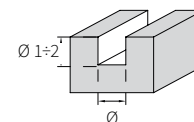
24011

HSS-CO 8% TiAIN DIN 844 K

Ø e8	d mm	L mm	l mm	z	pcs.	cod.	€
							cad/each
3	6	52	13	3	1	240110300	25,355
4	6	55	13	3	1	240110400	25,355
5	6	57	13	3	1	240110500	25,355
6	6	57	13	3	1	240110600	24,251
8	10	69	19	3	1	240110800	31,611
10	10	72	22	3	1	240111000	31,938
12	12	79	22	3	1	240111200	42,395
14	12	83	26	3	1	240111400	50,329
16	16	92	32	3	1	240111600	59,656
18	16	92	32	3	1	240111800	71,841
20	20	104	38	3	1	240112000	83,895



Fresa per cave
Slot end mills



Serie lunga
Long serie

24010

HSS-CO 8% DIN 844 L

Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€
							cad/each
3	6	56	12	3	1	240100300	29,571
4	6	63	19	3	1	240100400	29,571
5	6	68	24	3	1	240100500	29,571
6	6	68	24	3	1	240100600	24,107
8	10	88	38	3	1	240100800	33,932
10	10	95	45	3	1	240101000	33,932
12	12	110	53	3	1	240101200	46,624
14	12	110	53	3	1	240101400	59,265
16	16	123	63	3	1	240101600	65,192
18	16	123	63	3	1	240101800	80,643
20	20	141	75	3	1	240102000	98,443



Confezione
Packaging

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30<200



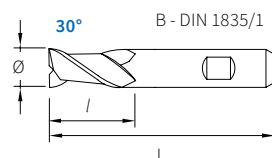
a secco
dry

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

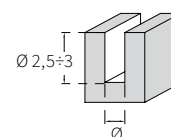
24012

HSS-CO 8% TiAIN DIN 844 L

Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€
							cad/each
3	6	56	12	3	1	240120300	34,326
4	6	63	19	3	1	240120400	34,326
5	6	68	24	3	1	240120500	34,326
6	6	68	24	3	1	240120600	32,748
8	10	88	38	3	1	240120800	41,815
10	10	95	45	3	1	240121000	43,066
12	12	110	53	3	1	240121200	57,190
14	12	110	53	3	1	240121400	74,677
16	16	123	63	3	1	240121600	89,615
18	16	123	63	3	1	240121800	111,480
20	20	141	75	3	1	240122000	126,452



Fresa per cave
Slot end mills



**FRESE FRONTALI CILINDRICHE A 4 TAGLIANTI
IN HSS-CO 8% CON ATTACCO WELDON**
HSS-CO 8% four flutes end mills, Weldon shank

Serie corta
Short serie

24013

HSS-CO 8% DIN 844 K

Universale / Universal



Ø k10	d mm	L mm	l mm	z	pcs. 📦	cod.	€ cad/each
3	6	52	8	4	1	240130300	18,546
4	6	55	11	4	1	240130400	18,546
5	6	57	13	4	1	240130500	18,546
6	6	57	13	4	1	240130600	18,546
7	10	66	16	4	1	240130700	27,061
8	10	69	19	4	1	240130800	25,155
9	10	69	19	4	1	240130900	27,061
10	10	72	22	4	1	240131000	25,155
12	12	83	26	4	1	240131200	35,112
14	12	83	26	4	1	240131400	44,425
16	16	92	32	4	1	240131600	47,840
18	16	92	32	4	1	240131800	62,539
20	20	104	38	4	1	240132000	72,238
22	20	104	38	6	1	240132200	87,744

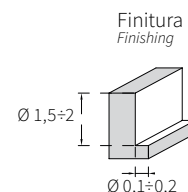


24015

HSS-CO 8% TiAIN DIN 844 K



Ø k10	d mm	L mm	l mm	z	pcs. 📦	cod.	€ cad/each
3	6	52	8	4	1	240150300	28,625
4	6	55	11	4	1	240150400	27,239
5	6	57	13	4	1	240150500	27,239
6	6	57	13	4	1	240150600	27,035
7	10	66	16	4	1	240150700	37,178
8	10	69	19	4	1	240150800	35,515
9	10	69	19	4	1	240150900	36,912
10	10	72	22	4	1	240151000	35,588
12	12	83	26	4	1	240151200	47,118
14	12	83	26	4	1	240151400	57,262
16	16	92	32	4	1	240151600	69,911
18	16	92	32	4	1	240151800	84,091
20	20	104	38	4	1	240152000	95,221
22	20	104	38	6	1	240152200	117,111



Serie lunga
Long serie

24014

HSS-CO 8% DIN 844 L

Universale / Universal



Ø k10	d mm	L mm	l mm	z	pcs. 📦	cod.	€ cad/each
4	6	63	19	4	1	240140400	25,769
5	6	68	24	4	1	240140500	25,769
6	6	68	24	4	1	240140600	25,769
8	10	88	38	4	1	240140800	36,273
10	10	95	45	4	1	240141000	36,273
12	12	110	53	4	1	240141200	50,634
14	12	110	53	4	1	240141400	61,030
16	16	123	63	4	1	240141600	74,528
18	16	123	63	4	1	240141800	92,237
20	20	141	75	4	1	240142000	104,412



Confezione
Packaging

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30<200



a secco
dry

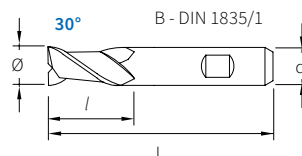
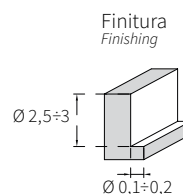
Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

24016

HSS-CO 8% TiAIN DIN 844 L



Ø k10	d mm	L mm	l mm	z	pcs. 📦	cod.	€ cad/each
4	6	63	19	4	1	240160400	37,370
5	6	68	24	4	1	240160500	36,741
6	6	68	24	4	1	240160600	35,247
8	10	88	38	4	1	240160800	47,704
10	10	95	45	4	1	240161000	49,263
12	12	110	53	4	1	240161200	63,565
14	12	110	53	4	1	240161400	80,347
16	16	123	63	4	1	240161600	100,795
18	16	123	63	4	1	240161800	119,965
20	20	141	75	4	1	240162000	129,893



**FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI A SGROSSARE
IN HSS-CO 8% CON ATTACCO WELDON**
HSS-CO 8% four flutes end mills, Weldon shank for roughing purpose

Serie corta
Short serie

24017

HSS-CO 8% DIN 844 K



Ø k12	d mm	L mm	l mm	z	pcs. 📦	cod.	€ cad/each
6	6	57	13	4	1	240170600	36,369
8	10	69	19	4	1	240170800	41,173
10	10	72	22	4	1	240171000	41,173
12	12	79	22	4	1	240171200	50,599
14	12	83	26	4	1	240171400	58,391
16	16	92	32	4	1	240171600	66,071
18	16	92	32	4	1	240171800	74,154
20	20	104	38	4	1	240172000	93,805

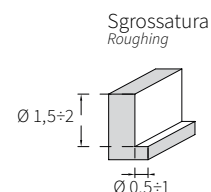


24019

HSS-CO 8% TiAIN DIN 844 K



Ø k12	d mm	L mm	l mm	z	pcs. 📦	cod.	€ cad/each
6	6	57	13	4	1	240190600	45,298
8	10	69	19	4	1	240190800	52,165
10	10	72	22	4	1	240191000	59,245
12	12	79	22	4	1	240191200	63,195
14	12	83	26	4	1	240191400	72,229
16	16	92	32	4	1	240191600	86,450
18	16	92	32	4	1	240191800	94,567
20	20	104	38	4	1	240192000	116,536



Serie lunga
Long serie

24018

HSS-CO 8% DIN 844 L



Ø k12	d mm	L mm	l mm	z	pcs. 📦	cod.	€ cad/each
6	6	68	24	4	1	240180600	51,096
8	10	88	38	4	1	240180800	52,520
10	10	95	45	4	1	240181000	53,873
12	12	110	53	4	1	240181200	71,782
14	12	110	53	4	1	240181400	71,945
16	16	123	63	4	1	240181600	90,467
18	16	123	63	4	1	240181800	109,443
20	20	141	75	4	1	240182000	120,326
22	20	141	75	4	1	240182200	205,510
25	25	166	90	4	1	240182500	244,770
28	25	166	90	4	1	240182800	280,985



Confezione
Packaging

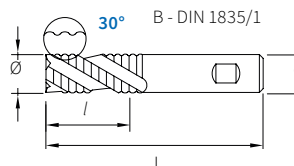
24020

HSS-CO 8% TiAIN DIN 844 L

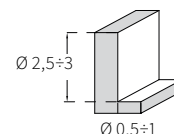


Ø k12	d mm	L mm	l mm	z	pcs. 📦	cod.	€ cad/each
6	6	68	24	4	1	240200600	58,203
8	10	88	38	4	1	240200800	64,548
10	10	95	45	4	1	240201000	64,726
12	12	110	53	4	1	240201200	89,384
14	12	110	53	4	1	240201400	86,637
16	16	123	63	4	1	240201600	113,649
18	16	123	63	4	1	240201800	134,020
20	20	141	75	4	1	240202000	162,203
22	20	141	75	4	1	240202200	252,311
25	25	166	90	4	1	240202500	310,678
28	25	166	90	4	1	240202800	352,224

Rompitruciolo tipo NR
Chip-breaker NR type



Sgrossatura
Roughing



Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificante



Ghisa
Cast Iron
HB30<200



a secco
dry

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200, acciai molto duri con R<1000 N/mm².
Steel and metals with R<850 N/mm², cast iron with HB30<200, hard steel with R<1000 N/mm².

**FRESE FRONTALI CIL. A 4 TAGLIANTI PER SEMIFINITURA
IN HSS-CO 8% CON ATTACCO WELDON**
HSS-CO 8% four flutes end mills, Weldon shank for finishing purpose

Serie corta
Short serie

24021

HSS-CO 8% DIN 844 K



Ø k12	d mm	L mm	l mm	z	pcs. GEM	cod.	€ cad/each
6	6	57	13	4	1	240210600	50,900
8	10	69	19	4	1	240210800	53,596
10	10	72	22	4	1	240211000	65,909
12	12	83	26	4	1	240211200	72,995
14	12	83	26	4	1	240211400	87,396
16	16	92	32	4	1	240211600	100,208
18	16	92	32	4	1	240211800	105,814
20	20	104	38	4	1	240212000	120,486

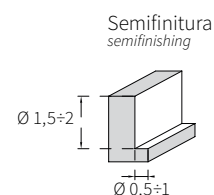


24023

HSS-CO 8% TiAIN DIN 844 K



Ø k12	d mm	L mm	l mm	z	pcs. GEM	cod.	€ cad/each
6	6	57	13	4	1	240230600	60,185
8	10	69	19	4	1	240230800	64,659
10	10	72	22	4	1	240231000	75,512
12	12	83	26	4	1	240231200	85,197
14	12	83	26	4	1	240231400	100,801
16	16	92	32	4	1	240231600	120,930
18	16	92	32	4	1	240231800	128,485
20	20	104	38	4	1	240232000	142,968



Serie lunga
Long serie

24022

HSS-CO 8% DIN 844 L



Ø k12	d mm	L mm	l mm	z	pcs. GEM	cod.	€ cad/each
6	6	68	24	4	1	240220600	62,711
8	10	88	38	4	1	240220800	66,964
10	10	95	45	4	1	240221000	75,513
12	12	110	53	4	1	240221200	99,343
14	12	110	53	4	1	240221400	110,041
16	16	123	63	4	1	240221600	130,213
18	16	123	63	4	1	240221800	134,887
20	20	141	75	4	1	240222000	154,218
22	20	141	75	4	1	240222200	379,947
25	25	166	90	4	1	240222500	449,326
28	25	166	90	4	1	240222800	562,136



Confezione
Packaging

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30<200



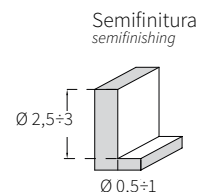
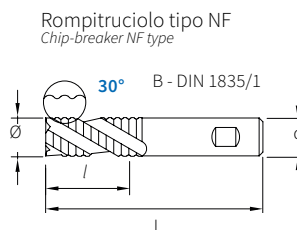
a secco
dry

24024

HSS-CO 8% TiAIN DIN 844 L



Ø k12	d mm	L mm	l mm	z	pcs. GEM	cod.	€ cad/each
6	6	68	24	4	1	240240600	76,390
8	10	88	38	4	1	240240800	80,492
10	10	95	45	4	1	240241000	89,840
12	12	110	53	4	1	240241200	118,929
14	12	110	53	4	1	240241400	134,605
16	16	123	63	4	1	240241600	156,728
18	16	123	63	4	1	240241800	170,238
20	20	141	75	4	1	240242000	192,705
22	20	141	75	4	1	240242200	469,361
25	25	166	90	4	1	240242500	566,479
28	25	166	90	4	1	240242800	704,209



Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200, acciai molto duri con R<1000 N/mm².
Steel and metals with R<850 N/mm², cast iron with HB30<200, hard steel with R<1000 N/mm².

FRESE FRONTALI A RAGGIO IN HSS-CO 8% CON ATTACCO WELDON

HSS-CO 8% round edge end mills, Weldon shank

Serie corta
Short serie

24005

HSS-CO 8% DIN 327 D



Ø	d	L	l	z	Ø	€
e8 h10	mm	mm	mm		pcs.	cod. cad/each
2	6	48	4	2	1	240050200 30,089
3	6	49	5	2	1	240050300 29,681
4	6	51	7	2	1	240050400 30,089
5	6	52	8	2	1	240050500 29,411
6	6	52	8	2	1	240050600 30,089
7	10	60	10	2	1	240050700 39,380
8	10	61	11	2	1	240050800 34,814
9	10	61	11	2	1	240050900 39,009
10	10	63	13	2	1	240051000 35,986
12	12	73	16	2	1	240051200 47,781
14	12	73	16	2	1	240051400 53,359
16	16	79	19	2	1	240051600 61,343
18	16	79	19	2	1	240051800 75,564
20	20	88	22	2	1	240052000 81,502

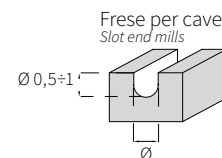


24007

HSS-CO 8% TiAIN DIN 327 D



Ø	d	L	l	z	Ø	€
e8 h10	mm	mm	mm		pcs.	cod. cad/each
2	6	48	4	2	1	240070200 40,334
3	6	49	5	2	1	240070300 40,131
4	6	51	7	2	1	240070400 38,356
5	6	52	8	2	1	240070500 38,872
6	6	52	8	2	1	240070600 39,648
7	10	60	10	2	1	240070700 49,543
8	10	61	11	2	1	240070800 46,320
9	10	61	11	2	1	240070900 49,514
10	10	63	13	2	1	240071000 46,894
12	12	73	16	2	1	240071200 60,165
14	12	73	16	2	1	240071400 64,994
16	16	79	19	2	1	240071600 79,422
18	16	79	19	2	1	240071800 88,848
20	20	88	22	2	1	240072000 103,763



Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

Serie lunga
Long serie

24006

HSS-CO 8% NORMA KRINO
Krino norm



Ø	d	L	l	z	Ø	€
h10	mm	mm	mm		pcs.	cod. cad/each
3	6	56	8	2	1	240060300 36,803
4	6	63	11	2	1	240060400 36,126
5	6	68	13	2	1	240060500 38,429
6	6	68	13	2	1	240060600 36,803
8	10	88	19	2	1	240060800 44,288
10	10	95	22	2	1	240061000 46,968
12	12	110	26	2	1	240061200 57,730
14	12	110	26	2	1	240061400 65,673
16	16	123	32	2	1	240061600 76,576
18	16	123	32	2	1	240061800 94,466
20	20	141	38	2	1	240062000 102,659



Confezione
Packaging

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30<200



a secco
dry

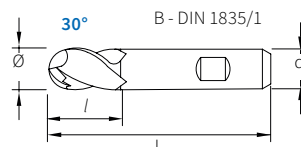
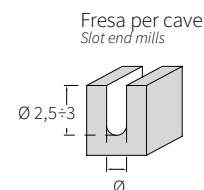
Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

24008

HSS-CO 8% TiAIN NORMA KRINO
Krino norm



Ø	d	L	l	z	Ø	€
h10	mm	mm	mm		pcs.	cod. cad/each
3	6	56	8	2	1	240080300 46,082
4	6	63	11	2	1	240080400 46,134
5	6	68	13	2	1	240080500 46,894
6	6	68	13	2	1	240080600 46,134
8	10	88	19	2	1	240080800 54,523
10	10	95	22	2	1	240081000 59,671
12	12	110	26	2	1	240081200 71,818
14	12	110	26	2	1	240081400 80,852
16	16	123	32	2	1	240081600 101,181
18	16	123	32	2	1	240081800 121,919
20	20	141	38	2	1	240082000 140,486



**FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI
IN HSS-CO 5% CON ATTACCO CONICO MORSE**
HSS-CO 5% Morse taper end mills

24025

HSS-CO 5% DIN 845K

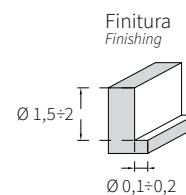
Serie corta
Short serie



Confezione
Packaging



Ø k10	MK	M	FORM	L mm	l mm	z	pcs.	cod.	€ cad/each
16	2	M10	A	117	32	4	1	240251600	71,805
18	2	M10	A	117	32	4	1	240251800	75,543
20	2	M10	A	123	38	4	1	240252000	85,102
25	3	M12	A	147	45	6	1	240252500	114,048
28	3	M12	A	147	45	6	1	240252800	127,784
30	3	M12	A	147	45	6	1	240253000	137,679
32	4	M16	A	178	53	6	1	240253200	166,128
40	4	M16	A	178	63	6	1	240254000	240,663



24026

HSS-CO 5% DIN 845L

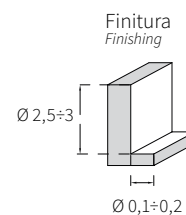
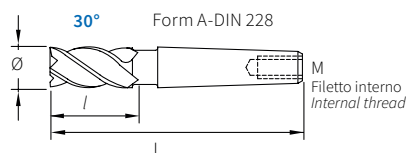
Serie lunga
Long serie



Confezione
Packaging



Ø k10	MK	M	FORM	L mm	l mm	z	pcs.	cod.	€ cad/each
16	2	M10	A	148	63	4	1	240261600	81,425
20	2	M10	A	160	75	4	1	240262000	102,471
25	3	M12	A	192	90	6	1	240262500	152,783
28	3	M12	A	192	90	6	1	240262800	174,796
32	4	M16	A	231	106	6	1	240263200	245,041
40	4	M16	A	250	125	6	1	240264000	399,840



Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30<200



a secco
dry

Acciai e metalli con $R < 850 \text{ N/mm}^2$, ghisa con durezza $\text{HB}30 < 200$.
Steel and metals with $R < 850 \text{ N/mm}^2$, cast iron with $\text{HB}30 < 200$.

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI A SGROSSARE IN HSS-CO 5% CON ATTACCO CONICO MORSE

HSS-CO 5% Morse taper end mills for roughing purpose

24029

HSS-CO 5% DIN 845K

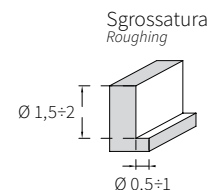
Serie corta
Short serie



Confezione
Packaging



Ø k10	MK	M	FORM	L mm	l mm	z	pcs.	cod.	€ cad/each
16	2	M10	A	117	32	4	1	240291600	96,663
18	2	M10	A	117	32	4	1	240291800	100,308
20	2	M10	A	123	38	4	1	240292000	119,082
25	3	M12	A	147	45	6	1	240292500	163,766
28	3	M12	A	147	45	6	1	240292800	185,409
30	3	M12	A	147	45	6	1	240293000	199,839
40	4	M12	A	147	45	6	1	240294000	555,660



24030

HSS-CO 5% DIN 845L

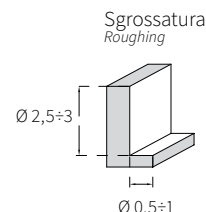
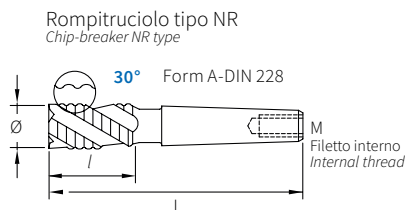
Serie lunga
Long serie



Confezione
Packaging



Ø k10	MK	M	FORM	L mm	l mm	z	pcs.	cod.	€ cad/each
16	2	M10	A	148	63	4	1	240301600	129,864
20	2	M10	A	160	75	4	1	240302000	165,241
25	3	M12	A	192	90	6	1	240302500	235,216
28	3	M12	A	192	90	6	1	240302800	269,815



Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubricant



Ghisa
Cast Iron
HB30<200



a secco
dry

Acciai e metalli con $R < 850 \text{ N/mm}^2$, ghisa con durezza $\text{HB30} < 200$.
Steel and metals with $R < 850 \text{ N/mm}^2$, cast iron with $\text{HB30} < 200$.

FRESA FRONTALE PER PANTOGRAFI A UN DENTE PER ALLUMINIO

One flute end mills for aluminium

26100

HSS-G

Alu

1 Dente
1 Cutting edge



Confezione
Packaging



Applicazioni
Applications



Alluminio
Aluminum



Emulsione
Lubricant

Ø mm	d mm	L mm	l mm	z	cod.	€ cad/each
3	8	60	12	1	2610003060	24,826
4	8	60	12	1	2610004060	24,826
4	8	80	14	1	2610004080	35,068
5	8	60	12	1	2610005060	24,826
5	8	80	16	1	2610005080	35,068
6	8	60	14	1	2610006060	24,826
6	8	90	16	1	2610006090	35,068
8	8	80	14	1	2610008080	30,290
8	8	100	28	1	2610008100	38,918
10	8	80	14	1	2610010080	31,198

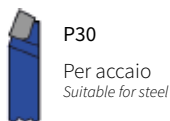
UTENSILI DA TORNIO SALDOBASATI CON PLACCHETTA IN METALLO DURO

Carbide brazed tools

Forma / Shape



Qualità metallo duro / Carbide quality



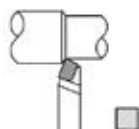
Confezione
Packaging



28200

ISO 1 DIN 4971

Utensile sgrossatore diretto per passata Straight Turning Brazed Tools



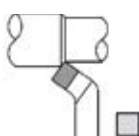
Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8X8 X 80	R	P30	28200RP300808	4,736
8X8 X 80	R	K10	28200RK100808	4,736
10X10 X 90	R	P30	28200RP301010	5,083
10X10 X 90	R	K10	28200RK101010	5,083
10X10 X 90	L	P30	28200LP301010	5,083
12X12 X 100	R	P30	28200RP301212	6,592
12X12 X 100	R	K10	28200RK101212	6,592
12X12 X 100	L	P30	28200LP301212	6,592

Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16X16 X 110	R	P30	28200RP301616	10,752
16X16 X 110	R	K10	28200RK101616	10,752
16X16 X 110	L	P30	28200LP301616	10,752
20X20 X 125	R	P30	28200RP302020	13,504
20X20 X 125	R	K10	28200RK102020	13,504
20X20 X 125	L	P30	28200LP302020	13,504
25X25 X 140	R	P30	28200RP302525	19,521
25X25 X 140	R	K10	28200RK102525	19,521

28202

ISO 2 DIN 4972

Utensile sgrossatore piegato per passata Bent Turning Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8X8 X 80	R	P30	28202RP300808	5,121
8X8 X 80	L	P30	28202LP300808	5,121
8X8 X 80	R	K10	28202RK100808	5,121
8X8 X 80	L	K10	28202LK100808	5,121
10X10 X 90	R	P30	28202RP301010	6,720
10X10 X 90	L	P30	28202LP301010	6,720
10X10 X 90	R	K10	28202RK101010	6,720
10X10 X 90	L	K10	28202LK101010	6,720
12X12 X 100	R	P30	28202RP301212	10,368
12X12 X 100	L	P30	28202LP301212	10,368
12X12 X 100	R	K10	28202RK101212	10,368
12X12 X 100	L	K10	28202LK101212	10,368
16X16 X 110	R	P30	28202RP301616	13,184
16X16 X 110	L	P30	28202LP301616	13,184

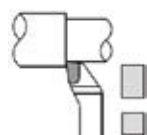
Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16X16 X 110	R	K10	28202RK101616	13,184
16X16 X 110	L	K10	28202LK101616	13,184
20X20 X 125	R	P30	28202RP302020	17,984
20X20 X 125	L	P30	28202LP302020	17,984
20X20 X 125	R	K10	28202RK102020	17,984
20X20 X 125	L	K10	28202LK102020	17,984
25X25 X 140	R	P30	28202RP302525	21,120
25X25 X 140	L	P30	28202LP302525	21,120
25X25 X 140	R	K10	28202RK102525	21,120
25X25 X 140	L	K10	28202LK102525	21,120
32X32 X 170	R	P30	28202RP303232	28,865
32X32 X 170	L	P30	28202LP303232	28,865
32X32 X 170	R	K10	28202RK103232	28,865
32X32 X 170	L	K10	28202LK103232	28,865

UTENSILI DA TORNIO SALDOBASATI CON PLACCHETTA IN METALLO DURO

Carbide brazed tools

28204

ISO 3 DIN 4978



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
10X10 X 90	R	P30	28204RP301010	4,352
10X10 X 90	L	P30	28204LP301010	4,352
10X10 X 90	R	K10	28204RK101010	4,352
10X10 X 90	L	K10	28204LK101010	4,352
10X16 x 110	R	P30	28204RP301016	9,536
10X16 x 110	L	P30	28204LP301016	9,408
10X16 x 110	R	K10	28204RK101016	9,536
10X16 x 110	L	K10	28204LK101016	9,408
12X12 X 100	R	P30	28204RP301212	5,760
12X12 X 100	L	P30	28204LP301212	5,760
12X12 X 100	R	K10	28204RK101212	5,760
12X12 X 100	L	K10	28204LK101212	5,760
12X20 x 125	R	P30	28204RP301220	14,145
12X20 x 125	L	P30	28204LP301220	14,145
12X20 x 125	R	K10	28204RK101220	14,145
12X20 x 125	L	K10	28204LK101220	14,145
16X16 X 110	R	P30	28204RP301616	9,536
16X16 X 110	L	P30	28204LP301616	9,536

Utensile curvo per finitura

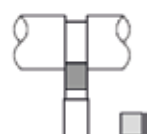
Off Set Turning Brazed Tools For Corner Work



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16X16 X 110	R	K10	28204RK101616	9,536
16X16 X 110	L	K10	28204LK101616	9,536
16X25 x 140	R	P30	28204RP301625	17,601
16X25 x 140	L	P30	28204LP301625	17,601
16X25 x 140	R	K10	28204RK101625	17,601
16X25 x 140	L	K10	28204LK101625	17,601
20X20 X 125	R	P30	28204RP302020	11,584
20X20 X 125	L	P30	28204LP302020	11,584
20X20 X 125	R	K10	28204RK102020	11,584
20X20 X 125	L	K10	28204LK102020	11,584
20X32 x 170	R	P30	28204RP302032	29,953
20X32 x 170	L	P30	28204LP302032	29,953
20X32 x 170	R	K10	28204RK102032	29,953
20X32 x 170	L	K10	28204LK102032	29,953
25X25 X 140	R	P30	28204RP302525	16,500
25X25 X 140	L	P30	28204LP302525	16,500
25X25 X 140	R	K10	28204RK102525	16,500
25X25 X 140	L	K10	28204LK102525	16,500

28206

ISO 4 DIN 4976



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8X8 x 80	R	P30	28206RP300808	5,184
8X8 x 80	R	K10	28206RK100808	5,184
10X10 x 90	R	P30	28206RP301010	6,272
10X10 x 90	R	K10	28206RK101010	6,272
12X12 x 100	R	P30	28206RP301212	10,240
12X12 x 100	R	K10	28206RK101212	10,240

Utensile frontale a testa larga

Wide Face Square Nose Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16X16 x 110	R	P30	28206RP301616	11,904
16X16 x 110	R	K10	28206RK101616	11,904
20X20 x 125	R	P30	28206RP302020	17,601
20X20 x 125	R	K10	28206RK102020	17,601
25X25 x 140	R	P30	28206RP302525	20,992
25X25 x 140	R	K10	28206RK102525	20,992

UTENSILI DA TORNIO SALDOBASATI CON PLACCHETTA IN METALLO DURO

Carbide brazed tools

28208

ISO 5 DIN 4977



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8X8 x 80	R	P30	28208RP300808	4,096
8X8 x 80	L	P30	28208LP300808	4,096
8X8 x 80	R	K10	28208RK100808	4,096
8X8 x 80	L	K10	28208LK100808	4,096
10X10 x 90	R	P30	28208RP301010	4,864
10X10 x 90	L	P30	28208LP301010	4,864
10X10 x 90	R	K10	28208RK101010	4,864
10X10 x 90	L	K10	28208LK101010	4,864
12X12 x 100	R	P30	28208RP301212	7,361
12X12 x 100	L	P30	28208LP301212	7,361
12X12 x 100	R	K10	28208RK101212	7,361
12X12 x 100	L	K10	28208LK101212	7,361

Utensile piegato a spianare e intestare Off Set face Turning Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16X16 x 110	R	P30	28208RP301616	10,624
16X16 x 110	L	P30	28208LP301616	10,624
16X16 x 110	R	K10	28208RK101616	10,624
16X16 x 110	L	K10	28208LK101616	10,624
20X20 x 125	R	P30	28208RP302020	14,720
20X20 x 125	L	P30	28208LP302020	14,720
20X20 x 125	R	K10	28208RK102020	14,720
20X20 x 125	L	K10	28208LK102020	14,720
25X25 x 140	R	P30	28208RP302525	20,033
25X25 x 140	L	P30	28208LP302525	20,033
25X25 x 140	R	K10	28208RK102525	20,033
25X25 x 140	L	K10	28208LK102525	20,033

28210

ISO 6 DIN 4980



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8X8 x 80	R	P30	28210RP300808	4,032
8X8 x 80	L	P30	28210LP300808	4,032
8X8 x 80	R	K10	28210RK100808	4,032
8X8 x 80	L	K10	28210LK100808	4,032
10X10 x 90	R	P30	28210RP301010	4,608
10X10 x 90	L	P30	28210LP301010	4,608
10X10 x 90	R	K10	28210RK101010	4,608
10X10 x 90	L	K10	28210LK101010	4,608
12X12 x 100	R	P30	28210RP301212	5,824
12X12 x 100	L	P30	28210LP301212	5,824
12X12 x 100	R	K10	28210RK101212	5,824
12X12 x 100	L	K10	28210LK101212	5,824
16X16 x 110	R	P30	28210RP301616	9,408
16X16 x 110	L	P30	28210LP301616	9,408

Utensile piegato per spallamenti Off Set Side Turning Brazed Tools



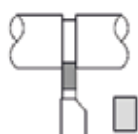
Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16X16 x 110	R	K10	28210RK101616	9,408
16X16 x 110	L	K10	28210LK101616	9,408
20X20 x 125	R	P30	28210RP302020	11,456
20X20 x 125	L	P30	28210LP302020	11,456
20X20 x 125	R	K10	28210RK102020	11,456
20X20 x 125	L	K10	28210LK102020	11,456
25X25 x 140	R	P30	28210RP302525	16,500
25X25 x 140	L	P30	28210LP302525	16,500
25X25 x 140	R	K10	28210RK102525	16,500
25X25 x 140	L	K10	28210LK102525	16,500
32X32 x 170	R	P30	28210RP303232	30,401
32X32 x 170	L	P30	28210LP303232	30,401
32X32 x 170	R	K10	28210RK103232	30,401
32X32 x 170	L	K10	28210LK103232	30,401

UTENSILI DA TORNIO SALDOBASATI CON PLACCHETTA IN METALLO DURO

Carbide brazed tools

28212

ISO 7 DIN 4981



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
6x10 x 90	R	P30	28212RP300610	5,952
6x10 x 90	L	P30	28212LP300610	5,952
6x10 x 90	R	K10	28212RK100610	5,952
6x10 x 90	L	K10	28212LK100610	5,952
8x12 x 100	R	P30	28212RP300812	6,272
8x12 x 100	L	P30	28212LP300812	6,272
8x12 x 100	R	K10	28212RK100812	6,272
8x12 x 100	L	K10	28212LK100812	6,272
10X16 x 110	R	P30	28212RP301016	8,704
10X16 x 110	L	P30	28212LP301016	8,704
10X16 x 110	R	K10	28212RK101016	8,704
10X16 x 110	L	K10	28212LK101016	8,704

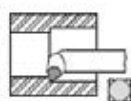
Utensile per troncatura Cutting Off Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
12X20 x 125	R	P30	28212RP301220	9,985
12X20 x 125	L	P30	28212LP301220	9,985
12X20 x 125	R	K10	28212RK101220	9,985
12X20 x 125	L	K10	28212LK101220	9,985
16X25 x 140	R	P30	28212RP301625	16,897
16X25 x 140	L	P30	28212LP301625	16,897
16X25 x 140	R	K10	28212RK101625	16,897
16X25 x 140	L	K10	28212LK101625	16,897
20X32 x 170	R	P30	28212RP302032	29,121
20X32 x 170	L	P30	28212LP302032	29,121
20X32 x 170	R	K10	28212RK102032	29,121
20X32 x 170	L	K10	28212LK102032	29,121

28214

ISO 8 DIN 4973



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8x8 x 125	R	P30	28214RP300808	6,016
8x8 x 125	R	K10	28214RK100808	6,016
10x10 x 150	R	P30	28214RP301010	6,976
10x10 x 150	R	K10	28214RK101010	6,976
12X12 x 180	R	P30	28214RP301212	8,704
12X12 x 180	R	K10	28214RK101212	8,704
16X16 x 210	R	P30	28214RP301616	13,184

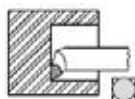
Utensile ad alesare per fori passanti Boring Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16X16 x 210	R	K10	28214RK101616	13,184
20X20 x 250	R	P30	28214RP302020	18,497
20X20 x 250	R	K10	28214RK102020	18,497
25X25 x 300	R	P30	28214RP302525	27,393
25X25 x 300	R	K10	28214RK102525	27,393
32X32 x 355	R	P30	28214RP303232	45,953
32X32 x 355	R	K10	28214RK103232	45,953

28216

ISO 9 DIN 4974



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8x8 x 125	R	P30	28216RP300808	6,016
8x8 x 125	R	K10	28216RK100808	6,016
10x10 x 150	R	P30	28216RP301010	6,976
10x10 x 150	R	K10	28216RK101010	6,976
12X12 x 180	R	P30	28216RP301212	8,704
12X12 x 180	R	K10	28216RK101212	8,704
16X16 x 210	R	P30	28216RP301616	13,184

Utensile ad alesare per fori ciechi Internal Side Turning Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16X16 x 210	R	K10	28216RK101616	13,184
20X20 x 250	R	P30	28216RP302020	18,497
20X20 x 250	R	K10	28216RK102020	18,497
25X25 x 300	R	P30	28216RP302525	27,393
25X25 x 300	R	K10	28216RK102525	27,393
32X32 x 355	R	P30	28216RP303232	45,953
32X32 x 355	R	K10	28216RK103232	45,953

UTENSILI DA TORNIO SALDOBASATI
CON PLACCHETTA IN METALLO DURO
Carbide brazed tools

28218

ISO 10 DIN 4975



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8x8 x 80	R	P30	28218RP300808	5,184
10x10 x 90	R	P30	28218RP301010	5,888
12x12 x 100	R	P30	28218RP301212	9,664
16x16 x 110	R	P30	28218RP301616	11,136

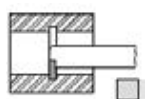
Utensile diritto per finitura
Finishing Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
10x16 x 110	R	P30	28218RP301016	8,704
12x20 x 125	R	P30	28218RP301220	9,985
16X25 x 140	R	P30	28218RP301625	15,744

28220

ISO 11 DIN 263



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8x8 x 125	R	P30	28220RP300808	6,720
10x10 x 140	R	P30	28220RP301010	7,168
12x12 x 160	R	P30	28220RP301212	9,024

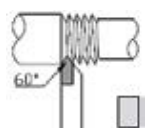
Utensile per canalini interni
Internal Undercutting Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16x16 x 180	R	P30	28220RP301616	14,400
20X20 x 210	R	P30	28220RP302020	17,664
25X25 x 250	R	P30	28220RP302525	27,904

28224

ISO 12 DIN 282



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8x8 x 80	R	P30	28224RP300808	4,864
10x10 x 90	R	P30	28224RP301010	5,184
12x12 x 100	R	P30	28224RP301212	6,976

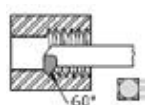
Utensile per filettatura esterna a 60°
External Threading Brazed Tools



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16x16 x 110	R	P30	28224RP301616	11,009
20X20 x 125	R	P30	28224RP302020	12,352
25X25 x 140	R	P30	28224RP302525	15,808

28226

ISO 13 DIN 283



Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
8x8 x 120	R	P30	28226RP300808	5,952
10x10 x 140	R	P30	28226RP301010	6,464
12x12 x 160	R	P30	28226RP301212	8,512

Utensile per filettatura interna a 60°
Internal Side Turning



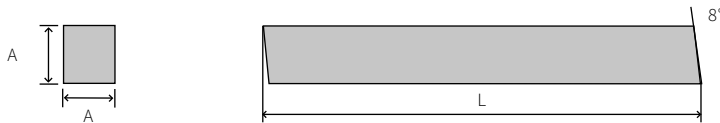
Dimensione/ Dimension	Forma Shape	Qualità Quality	cod.	€ cad/each
16x16 x 180	R	P30	28226RP301616	12,992
20X20 x 210	R	P30	28226RP302020	16,577
25X25 x 250	R	P30	28226RP302525	25,921

BARRETTE TRATTATE E RETTIFICATE IN HSS-CO 10%
HSS-CO 10% tool bits

26150

HSS-CO 10% DIN 4964/B

Quadra
Square



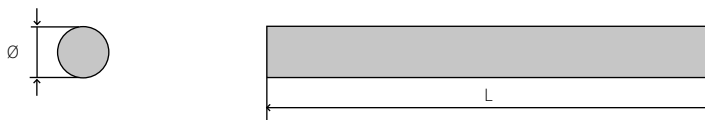
AxA h14	L mm	cod.	€ cad/each
6 x 6	160	261500606160	18,320
6 x 6	200	261500606200	22,776
8 x 8	160	261500808160	25,986
8 x 8	200	261500808200	33,131
10 x 10	160	261501010160	45,100
10 x 10	200	261501010200	57,851
12 x 12	160	261501212160	58,620
12 x 12	200	261501212200	75,206
14 x 14	160	261501414160	69,586

AxA h14	L mm	cod.	€ cad/each
14 x 14	200	261501414200	83,875
16 x 16	160	261501616160	94,578
16 x 16	200	261501616200	122,860
18 x 18	160	261501818160	115,480
18 x 18	200	261501818200	144,789
20 x 20	160	261502020160	146,850
20 x 20	200	261502020200	186,577
30 x 30	200	261503030200	422,008

26152

HSS-CO 10% DIN 4964/A

Tonda
Round



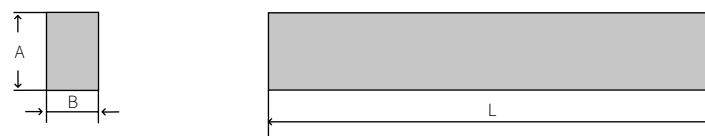
Ø h14	L mm	cod.	€ cad/each
4,0	100	2615204100	8,555
5,0	100	2615205100	9,154
6,0	100	2615206100	9,909
6,0	160	2615206160	14,368
6,0	200	2615206200	17,328
8,0	100	2615208100	14,003
8,0	160	2615208160	22,453
8,0	200	2615208200	25,477
10,0	100	2615210100	21,395
10,0	160	2615210160	40,014
10,0	200	2615210200	49,455

Ø h14	L mm	cod.	€ cad/each
12	160	2615212160	51,488
12	200	2615212200	63,965
14	160	2615214160	61,957
14	200	2615214200	89,193
15	200	2615215200	89,193
16	160	2615216160	61,957
16	200	2615216200	89,193
18	200	2615218200	162,978
20	160	2615220160	138,675
20	200	2615220200	174,724

26154

HSS-CO 10% DIN 4964/D

Rettangolare
Rectangular



AxB h14	L mm	cod.	€ cad/each
10 x 4	160	261541004160	30,014
10 x 5	200	261541005200	34,670
12 x 6	200	261541206200	43,836
12 x 8	200	261541208200	54,096
15 x 4	200	261541504200	44,865
16 x 4	160	261541604160	37,460
16 x 4	200	261541604200	45,543

AxB h14	L mm	cod.	€ cad/each
16 x 10	200	261541610200	84,893
20 x 4	200	261542004200	63,457
20 x 5	200	261542005200	63,457
20 x 6	200	261542006200	70,823
20 x 8	200	261542008200	82,924
20 x 10	200	261542010200	95,075
20 x 12	200	261542012200	105,010

Confezione
Packaging







FRESE ROTATIVE

ROTARY BURRS

Un taglio per ogni applicazione

A cut for each application

TAGLIO 1 CUT 1



TAGLIO ALLUMINIO adatto a alluminio, magnesio, plastiche e gomma dura. Buon rendimento con un alto tasso di asportazione del materiale, che previene l'incollaggio dei trucioli.

ALUMINIUM CUT suitable for cutting into aluminium, magnesium, plastic and hard rubber. High efficiency with good removal rate, thus preventing the chips clogging the tool.

TAGLIO 3 CUT 3



TAGLIO STANDARD per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti. Velocità consigliata: 450÷600 m/min.

STANDARD CUT Standard cut in low and high tensile steel, welded points, metals. Cutting speed: 450÷600 m/min

TAGLIO 3 PLUS CUT 3 PLUS



TAGLIO STANDARD CON ROMPITRUCIOLO per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti. Velocità consigliata: 450÷600 m/min.

STANDARD CUT WITH CHIP BREAKER in low and high tensile steel, welded points, metals. Cutting speed: 450÷600 m/min.

TAGLIO 4 CUT 4



TAGLIO INCROCIATO per acciaio trattato, acciaio inox, materiali metallici in genere. Vibrazioni ridotte, buona finitura superficiale, ottimi rendimenti. Velocità consigliata: 450÷600 m/min.

DIAMOND CUT finish work in high alloy steel, stainless steel, metals, less vibrations, high performances. Cutting speed: 450÷600 m/min.



METALLO DURO

Realizzate in metallo duro, sono ideali per lavorazioni anche intensive di finitura e la sgrassatura su acciaio, acciaio temprato, acciaio inox, ghisa, cordoni di saldatura e materiali metallici in generale.

CARBIDE

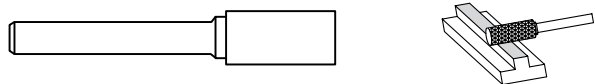
Made by carbide, they are ideal for even intensive finishing and roughing operations on steel, hardened steel, stainless steel, cast iron, weld seams and metallic materials in general.

Una forma per ogni applicazione

A shape for each application

FORMA CILINDRICA ZYA

Cylindrical shape ZYA without end cut



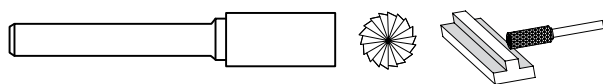
FORMA CILINDRICA CON TESA A SFERA WRC

Cylindrical shape with radius end WRC



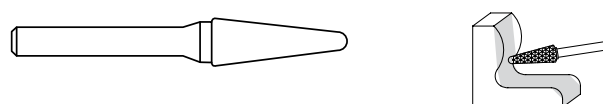
FORMA CILINDRICA CON TAGLIANTE FRONTALE ZYAS

Cylindrical shape ZYAS with end cut



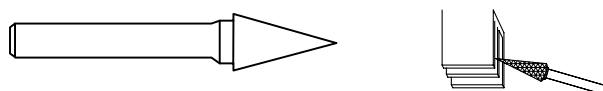
FORMA A CONO CON PUNTA ARROTONDATA KEL

Conical shape with radius end KEL



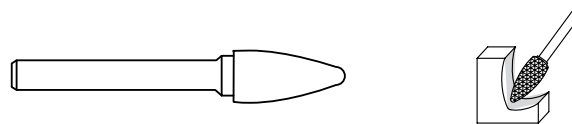
FORMA A CONO APPUNTITO SKM

Conical pointed shape SKM



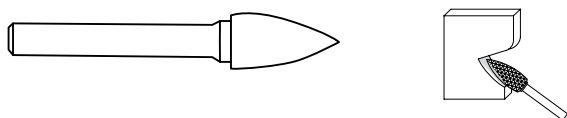
FORMA AD ALBERO RBF

Tree shape with radius end RBF



FORMA A OGIVA SPG

Pointed tree shape SPG



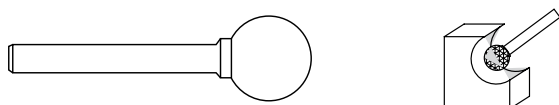
FORMA A GOCCIA TRE

Oval shape TRE



FORMA A SFERA KUD

Ball shape KUD



FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

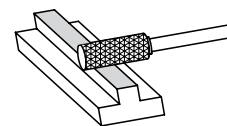
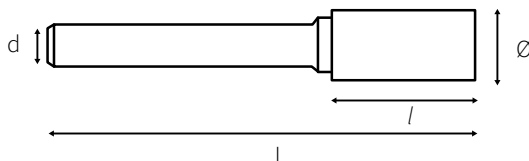
HM

FORMA CILINDRICA ZYA SENZA TAGLIO FRONTALE

Cylindrical shape ZYA without end cut



Confezione
Packaging



Taglio 1
Cut 1

Taglio 3
Cut 3

Taglio 3 plus
Cut 3 plus

Taglio 4
Cut 4

Taglio 3
Cut 3

Taglio 4
Cut 4

TiAIN

TiAIN

Gambo
Shank

* Ø 3 mm	Ø	l	L	d	cod. € cad/each	Taglio 1 Cut 1	Taglio 3 Cut 3	Taglio 3 plus Cut 3 plus	Taglio 4 Cut 4	Taglio 3 Cut 3	Taglio 4 Cut 4
						€ cad/each	€ cad/each	€ cad/each	€ cad/each	€ cad/each	€ cad/each
Ø 6 mm	3	16	38	3	-	2601500103 10,429	2601600103 12,968	2602000103 10,429	2603300103 23,391	2603400103 23,391	
	4	14	50	6	-	2601500104 29,478	2601600104 29,478	2602000104 29,478	2603300104 41,392	2603400104 41,392	
	6	18	50	6	-	2601500106 29,478	2601600106 29,478	2602000106 29,478	2603300106 41,392	2603400106 41,392	
	8	18	63	6	-	2601500108 29,478	2601600108 29,478	2602000108 29,478	2603300108 41,952	2603400108 41,952	
	10	20	65	6	-	2601500110 36,456	2601600110 36,456	2602000110 36,456	2603300110 51,216	2603400110 51,216	
	12	25	70	6	-	2601500112 46,128	2601600112 46,128	2602000112 46,128	2603300112 62,768	2603400112 62,768	
Ø 6 mm	16	25	70	6	-	2601500116 68,438	2601600116 68,438	2602000116 68,438	2603300116 97,375	2603400116 97,375	
	8	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-

SERIE LUNGA
LONG SERIE

* Microfrese
Micro rotary files

FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

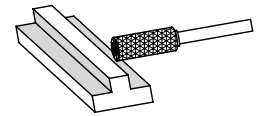
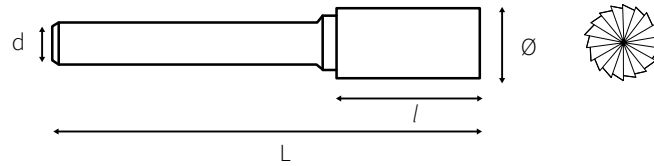
HM

FORMA CILINDRICA ZYAS CON TAGLIO FRONTALE

Cylindrical shape ZYAS with end cut



Confezione
Packaging



Gambo Shank	Ø	l	L	d	Taglio										
					1 Cut 1	3 Cut 3	3 plus Cut 3 plus	4 Cut 4	3 Cut 3 TiAlN	4 Cut 4 TiAlN					
* Ø 3 mm	3	16	38	3	cod.	-	2601500203	2601600203	2602000203	2603300203	2603400203				
					€ cad/each	-	10,429	12,968	10,429	23,391	23,391				
Ø 6 mm	4	14	50	6	cod.	-	2601500204	2601600204	2602000204	2603300204	2603400204				
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392				
					6	18	50	6	cod.	2602500206	2601500206	2601600206	2602000206	2603300206	2603400206
					€ cad/each	24,820	29,478	29,478	29,478	41,392	41,392				
					8	18	63	6	cod.	2602500208	2601500208	2601600208	2602000208	2603300208	2603400208
					€ cad/each	26,593	29,478	29,478	29,478	41,952	41,952				
10	20	65	6	cod.	2602500210	2601500210	2601600210	2602000210	2603300210	2603400210					
€ cad/each	34,577	36,456	36,456	36,456	51,216	51,216									
12	25	70	6	cod.	2602500212	2601500212	2601600212	2602000212	2603300212	2603400212					
€ cad/each	44,325	46,128	46,128	46,128	62,768	62,768									
16	25	70	6	cod.	2602500216	2601500216	2601600216	2602000216	2603300216	2603400216					
€ cad/each	63,838	68,438	68,438	68,438	97,375	97,375									
Ø 6 mm	8	18	120	6	cod.	2602600208	-	2602700208	2602800208	-	-				
					€ cad/each	35,045	-	35,045	33,377	-	-				
12	25	120	6	cod.	2602600212	-	2602700212	2602800212	-	-					
€ cad/each	51,734	-	51,734	50,066	-	-									

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LONG SERIE

* Microfrese
Micro rotary files

FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

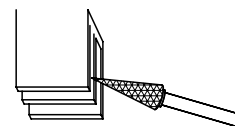
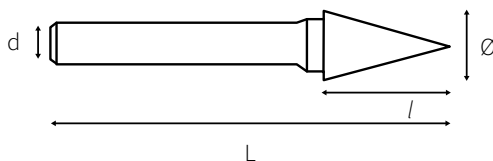
HM







FORMA A CONO APPUNTITO SKM

Conical pointed shape SKM



Confezione
Packaging



Gambo Shank	Ø	l	L	d	<div style="display: flex; justify-content: space-around; font-size: small;"> Taglio 1 Cut 1 Taglio 3 Cut 3 Taglio 3 plus Cut 3 plus Taglio 4 Cut 4 Taglio 3 Cut 3 TIAN Taglio 4 Cut 4 TIAN </div>						
											
* Ø 3 mm	3	16	38	3	cod. € cad/each	- -	2601500303 10,429	2601600303 12,968	2602000303 10,429	2603300303 23,391	2603400303 23,391
	4	14	50	6	cod. € cad/each	- -	2601500304 29,478	2601600304 29,478	2602000304 29,478	2603300304 41,392	2603400304 41,392
	6	18	50	6	cod. € cad/each	2602500306 24,820	2601500306 29,478	2601600306 29,478	2602000306 29,478	2603300306 41,392	2603400306 41,392
	8	18	63	6	cod. € cad/each	2602500308 26,593	2601500308 29,478	2601600308 29,478	2602000308 29,478	2603300308 41,952	2603400308 41,952
	10	20	65	6	cod. € cad/each	2602500310 34,577	2601500310 36,456	2601600310 36,456	2602000310 36,456	2603300310 51,216	2603400310 51,216
	12	25	70	6	cod. € cad/each	2602500312 44,325	2601500312 46,128	2601600312 46,128	2602000312 46,128	2603300312 62,768	2603400312 62,768
Ø 6 mm	16	25	70	6	cod. € cad/each	2602500316 63,838	2601500316 68,438	2601600316 68,438	2602000316 68,438	2603300316 97,375	2603400316 97,375
	8	18	120	6	cod. € cad/each	2602600308 35,045	- -	2602700308 35,045	2602800308 33,377	- -	- -
	12	25	120	6	cod. € cad/each	2602600312 51,734	- -	2602700312 51,734	2602800312 50,066	- -	- -

SERIE LUNGA
LONG SERIE

* Microfrese
Micro rotary files

FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

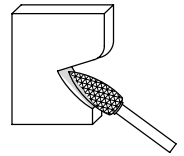
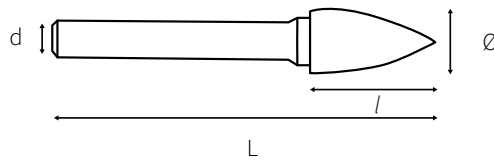
HM

FORMA AD OGIVA SPG

Pointed tree shape SPG



Confezione
Packaging



Gambo Shank	Ø	l	L	d	Taglio										
					1 Cut 1	3 Cut 3	3 plus Cut 3 plus	4 Cut 4	3 Cut 3 TIAIN	4 Cut 4 TIAIN					
* Ø 3 mm	3	16	38	3	cod.	-	2601500403	2601600403	2602000403	2603300403	2603400403				
					€ cad/each	-	10,429	12,968	10,429	23,391	23,391				
Ø 6 mm	4	14	50	6	cod.	-	2601500404	2601600404	2602000404	2603300404	2603400404				
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392				
					6	18	50	6	cod.	2602500406	2601500406	2601600406	2602000406	2603300406	2603400406
					€ cad/each	24,820	29,478	29,478	29,478	41,392	41,392				
					8	18	63	6	cod.	2602500408	2601500408	2601600408	2602000408	2603300408	2603400408
					€ cad/each	26,593	29,478	29,478	29,478	41,952	41,952				
10	20	65	6	cod.	2602500410	2601500410	2601600410	2602000410	2603300410	2603400410					
€ cad/each	34,577	36,456	36,456	36,456	51,216	51,216									
12	25	70	6	cod.	2602500412	2601500412	2601600412	2602000412	2603300412	2603400412					
€ cad/each	44,325	46,128	46,128	46,128	62,768	62,768									
16	25	70	6	cod.	2602500416	2601500416	2601600416	2602000416	2603300416	2603400416					
€ cad/each	63,838	68,438	68,438	68,438	97,375	97,375									
Ø 6 mm	8	18	120	6	cod.	2602600408	-	2602700408	2602800408	-	-				
					€ cad/each	35,045	-	35,045	33,377	-	-				
12	25	120	6	cod.	2602600412	-	2602700412	2602800412	-	-					
€ cad/each	51,734	-	51,734	50,066	-	-									

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LONG SERIE

* Microfrese
Micro rotary files

FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

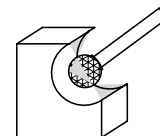
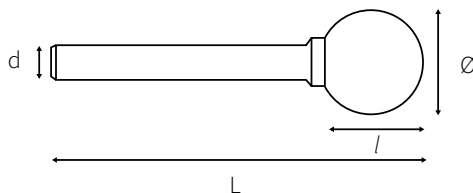
HM

FORMA A SFERA KUD

Ball shape KUD



Confezione
Packaging



Gambo Shank	Ø	l	L	d	Taglio								
					1 Cut 1	3 Cut 3	3 plus Cut 3 plus	4 Cut 4	3 Cut 3 TiAlN	4 Cut 4 TiAlN			
* Ø 3 mm	3	3	38	3	cod. € cad/each	- -	2601500503 10,429	2601600503 12,968	2602000503 10,429	2603300503 23,391	2603400503 23,391		
	4	4	50	6	cod. € cad/each	- -	2601500504 29,478	2601600504 29,478	2602000504 29,478	2603300504 41,392	2603400504 41,392		
	6	5	50	6	cod. € cad/each	2602500506 24,820	2601500506 29,478	2601600506 29,478	2602000506 29,478	2603300506 41,392	2603400506 41,392		
	8	7	63	6	cod. € cad/each	2602500508 26,593	2601500508 29,478	2601600508 29,478	2602000508 29,478	2603300508 41,952	2603400508 41,952		
	10	9	65	6	cod. € cad/each	2602500510 34,577	2601500510 36,456	2601600510 36,456	2602000510 36,456	2603300510 51,216	2603400510 51,216		
	12	10	70	6	cod. € cad/each	2602500512 44,325	2601500512 46,128	2601600512 46,128	2602000512 46,128	2603300512 62,768	2603400512 62,768		
	16	14	70	6	cod. € cad/each	2602500516 63,838	2601500516 68,438	2601600516 68,438	2602000516 68,438	2603300516 97,375	2603400516 97,375		
	SERIE LUNGA LONG SERIE	Ø 6 mm	8	7	120	6	cod. € cad/each	2602600508 35,045	- -	2602700508 35,045	2602800508 33,377	- -	- -
			12	10	120	6	cod. € cad/each	2602600512 51,734	- -	2602700512 51,734	2602800512 50,066	- -	- -

* Microfrese
Micro rotary files

FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

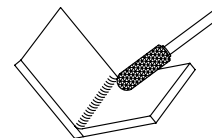
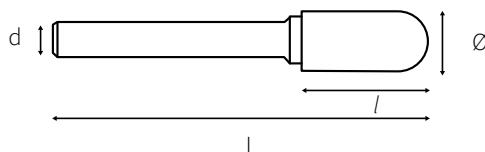
HM







FORMA CLINDRICA CON TESTA A SFERA WRC

Cylindrical shape with radius end WRC



Confezione
Packaging



Gambo Shank	Ø	l	L	d	<div style="display: flex; justify-content: space-around; font-size: 8px;"> Taglio 1 Cut 1 Taglio 3 Cut 3 Taglio 3 plus Cut 3 plus Taglio 4 Cut 4 Taglio 3 Cut 3 TIAIN Taglio 4 Cut 4 TIAIN </div>						
											
* Ø 3 mm	3	16	38	3	cod. € cad/each	- -	2601500603 10,429	2601600603 12,968	2602000603 10,429	2603300603 23,391	2603400603 23,391
	4	14	50	6	cod. € cad/each	- -	2601500604 29,478	2601600604 29,478	2602000604 29,478	2603300604 41,392	2603400604 41,392
	6	18	50	6	cod. € cad/each	2602500606 24,820	2601500606 29,478	2601600606 29,478	2602000606 29,478	2603300606 41,392	2603400606 41,392
	8	18	63	6	cod. € cad/each	2602500608 26,593	2601500608 29,478	2601600608 29,478	2602000608 29,478	2603300608 41,952	2603400608 41,952
	10	20	65	6	cod. € cad/each	2602500610 34,577	2601500610 36,456	2601600610 36,456	2602000610 36,456	2603300610 51,216	2603400610 51,216
	12	25	70	6	cod. € cad/each	2602500612 44,325	2601500612 46,128	2601600612 46,128	2602000612 46,128	2603300612 62,768	2603400612 62,768
Ø 6 mm	8	18	120	6	cod. € cad/each	2602600608 35,045	- -	2602700608 35,045	2602800608 33,377	- -	- -
	12	25	120	6	cod. € cad/each	2602600612 51,734	- -	2602700612 51,734	2602800612 50,066	- -	- -

SERIE LUNGA
LONG SERIE

* Microfrese
Micro rotary files

FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

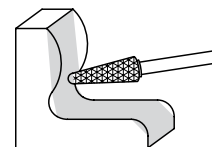
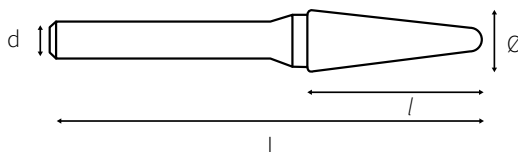
HM

FORMA A CONO CON PUNTA ARROTONDATA KEL

Conical shape with radius end KEL



Confezione
Packaging



Taglio 1
Cut 1

Taglio 3
Cut 3

Taglio 3 plus
Cut 3 plus

Taglio 4
Cut 4

Taglio 3
Cut 3

Taglio 4
Cut 4

TiAlN

TiAlN

Gambo
Shank

Ø l L d



* Ø 3 mm	3	16	38	3	cod. € cad/each	-	2601500703 10,429	2601600703 12,968	2602000703 10,429	2603300703 23,391	2603400703 23,391
Ø 6 mm	4	14	50	6	cod. € cad/each	-	2601500704 29,478	2601600704 29,478	2602000704 29,478	2603300704 41,392	2603400704 41,392
	6	18	50	6	cod. € cad/each	-	2601500706 29,478	2601600706 29,478	2602000706 29,478	2603300706 41,392	2603400706 41,392
	8	18	63	6	cod. € cad/each	-	2601500708 29,478	2601600708 29,478	2602000708 29,478	2603300708 41,952	2603400708 41,952
	10	20	65	6	cod. € cad/each	-	2601500710 36,456	2601600710 36,456	2602000710 36,456	2603300710 51,216	2603400710 51,216
	12	25	70	6	cod. € cad/each	-	2601500712 46,128	2601600712 46,128	2602000712 46,128	2603300712 62,768	2603400712 62,768
	16	25	70	6	cod. € cad/each	-	2601500716 68,438	2601600716 68,438	2602000716 68,438	2603300716 97,375	2603400716 97,375
Ø 6 mm	8	-	-	-	cod. € cad/each	-	-	-	-	-	-
	12	-	-	-	cod. € cad/each	-	-	-	-	-	-

SERIE LUNGA
LONG SERIE

* Microfrese
Micro rotary files

FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

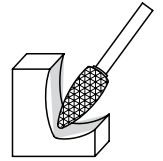
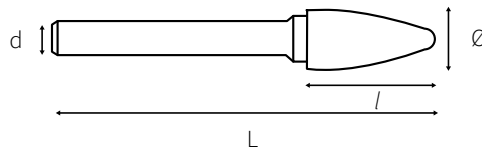
HM

FORMA AD ALBERO RBF

Tree shape with radius end RBF



Confezione
Packaging



Gambo Shank	Ø	l	L	d	cod. € cad/each	Taglio 1 Cut 1	Taglio 3 Cut 3	Taglio 3 plus Cut 3 plus	Taglio 4 Cut 4	Taglio 3 Cut 3	Taglio 4 Cut 4	
* Ø 3 mm	3	16	38	3	-	2601500803	2601600803	2602000803	2603300803	2603400803		
					10,429	12,968	10,429	23,391	23,391			
	Ø 6 mm	4	14	50	6	-	2601500804	2601600804	2602000804	2603300804	2603400804	
						29,478	29,478	29,478	41,392	41,392		
		6	18	50	6	-	2601500806	2601600806	2602000806	2603300806	2603400806	
						29,478	29,478	29,478	41,392	41,392		
		8	18	63	6	-	2601500808	2601600808	2602000808	2603300808	2603400808	
					29,478	29,478	29,478	41,952	41,952			
10	20	65	6	-	2601500810	2601600810	2602000810	2603300810	2603400810			
				36,456	36,456	36,456	51,216	51,216				
12	25	70	6	-	2601500812	2601600812	2602000812	2603300812	2603400812			
				46,128	46,128	46,128	62,768	62,768				
16	25	70	6	-	2601500816	2601600816	2602000816	2603300816	2603400816			
				68,438	68,438	68,438	97,375	97,375				
SERIE LUNGA LONG SERIE	Ø 6 mm	8	-	-	-	-	-	-	-	-	-	
		12	-	-	-	-	-	-	-	-	-	

* Microfrese
Micro rotary files

FRESE ROTATIVE IN METALLO DURO K20

Carbide rotary burrs

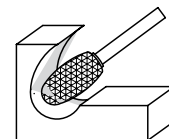
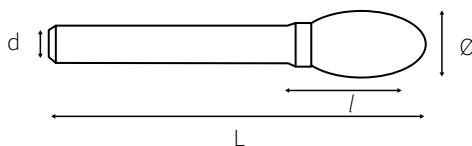
HM

FORMA A GOCCIA TRE

Oval shape TRE



Confezione
Packaging



Taglio 1
Cut 1

Taglio 3
Cut 3

Taglio 3 plus
Cut 3 plus

Taglio 4
Cut 4

Taglio 3
Cut 3
TiAlN

Taglio 4
Cut 4
TiAlN

Gambo
Shank

Ø l L d








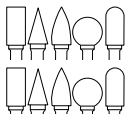



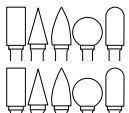

* Ø 3 mm	3	6	38	3	cod. € cad/each	-	2601500903 10,429	2601600903 12,968	2602000903 10,429	2603300903 23,391	2603400903 23,391
Ø 6 mm	4	6	50	6	cod. € cad/each	-	2601500904 29,478	2601600904 29,478	2602000904 29,478	2603300904 41,392	2603400904 41,392
	6	10	50	6	cod. € cad/each	-	2601500906 29,478	2601600906 29,478	2602000906 29,478	2603300906 41,392	2603400906 41,392
	8	13	58	6	cod. € cad/each	-	2601500908 29,478	2601600908 29,478	2602000908 29,478	2603300908 41,952	2603400908 41,952
	10	16	61	6	cod. € cad/each	-	2601500910 36,456	2601600910 36,456	2602000910 36,456	2603300910 51,216	2603400910 51,216
	12	20	65	6	cod. € cad/each	-	2601500912 46,128	2601600912 46,128	2602000912 46,128	2603300912 62,768	2603400912 62,768
	16	25	70	6	cod. € cad/each	-	2601500916 68,438	2601600916 68,438	2602000916 68,438	2603300916 97,375	2603400916 97,375
Ø 6 mm	8	-	-	-	cod. € cad/each	-	-	-	-	-	-
	12	-	-	-	cod. € cad/each	-	-	-	-	-	-

SERIE LUNGA
LONG SERIE

* Microfrese
Micro rotary files

ASSORTIMENTI FRESE ROTATIVE IN METALLO DURO

Carbide rotary burrs sets

N° pezzi N° pieces	Ø	Forme Shapes	Taglio 1 Cut 1	Taglio 3 plus Cut 3 plus	Taglio 4 Cut 4	Taglio 3 e 4 Cut 3 and 4	Taglio 4 Cut 4	Taglio 3 e 4 Cut 3 and 4	
							TiAIN		
	5	10		cod. 26030430	26030416	26030404	-	26030412	-
			€ cad/each 156,408	143,002	164,569	-	230,455	-	
	5	12		cod. 26030431	26030417	26030405	-	26030413	-
			€ cad/each 160,000	210,391	215,833	-	284,424	-	
	10	10		cod. -	-	-	26030401	-	26030410
			€ cad/each -	-	-	311,567	-	455,497	
	10	12		cod. -	-	-	26030402	-	26030411
			€ cad/each -	-	-	393,551	-	557,982	
	10 (5+5)	8 12		cod. 26030432	26030415	26030403	-	-	-
			€ cad/each 250,000	308,702	322,831	-	-	-	
	45	6 8 10 12 16	tutte le forme all shapes	cod. -	-	26030502	-	26030504	-
			€ cad/each -	-	1.889,815	-	2.652,319	-	

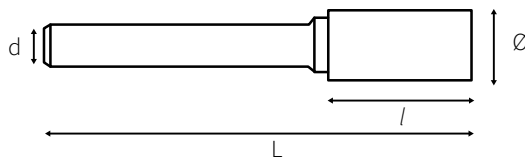
FRESE ROTATIVE IN HSS

HSS rotary burrs

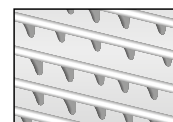
HSS



Confezione
Packaging



Z2
TAGLIO BASTARDO per leghe leggere, rame, ottone, bronzo, acciaio dolce.
Velocità consigliata: 220÷250 m/min.
For cutting light alloys, copper, brass, bronze, mild steel.
Cutting speed: 220÷250 m/min.



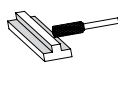
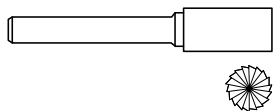
Z3
Taglio mezzo dolce per acciai, ghisa. Vt 80÷220 m/min.
For cutting steel, cast iron.
Cutting speed 80÷220 m/min.

HRC = 63

26001 Z2

26003 Z3

Cilindrica con taglio frontale
Cylindrical shape with end cut

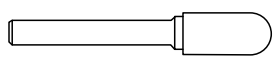


Ø	l	L	d
6	20	60	6
8	30	70	6
10	30	70	6
12	30	70	6
15	30	70	6

cod.	€ cad/each
2600100106	11,004
2600100108	13,964
2600100110	17,342
2600100112	19,296
2600100115	25,099

cod.	€ cad/each
2600300106	12,882
2600300108	15,385
2600300110	19,989
2600300112	21,172
2600300115	26,584

Cilindrica con testa sferica
Cylindrical shape with radius end

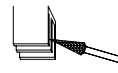


6	20	60	6
8	30	70	6
10	30	70	6
12	30	70	6
15	30	70	6

2600100206	11,004
2600100208	13,964
2600100210	17,342
2600100212	19,296
2600100215	25,099

2600300206	12,882
2600300208	15,385
2600300210	19,989
2600300212	21,172
2600300215	26,584

Conica a punta
Pointed tree shape

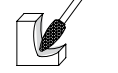
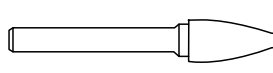


6	20	60	6
8	30	70	6
10	30	70	6
12	30	70	6
15	30	70	6

2600100306	11,004
2600100308	13,964
2600100310	17,342
2600100312	19,296
2600100315	25,099

2600300306	12,882
2600300308	15,385
2600300310	19,989
2600300312	21,172
2600300315	26,584

Ogiva a punta
Tree shape

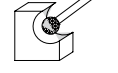
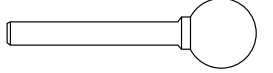


6	20	60	6
8	30	70	6
10	30	70	6
12	30	70	6
15	30	70	6

2600100406	11,004
2600100408	13,964
2600100410	17,342
2600100412	19,296
2600100415	25,099

2600300406	12,882
2600300408	15,385
2600300410	19,989
2600300412	21,172
2600300415	26,584

Sferica
Ball shape



6	5	50	6
8	7	52	6
10	9	54	6
12	10	55	6
15	14	59	6

2600100506	11,004
2600100508	13,964
2600100510	17,342
2600100512	19,296
2600100515	25,099

2600300506	12,882
2600300508	15,385
2600300510	19,989
2600300512	21,172
2600300515	26,584

Applicazioni
Applications



Acciaio
Steel



Alluminio
Aluminum












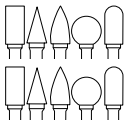



Leghe leggere
Light alloys



Art. 26004 Self
Disponibile su richiesta
On demand

ASSORTIMENTI FRESE ROTATIVE IN HSS

HSS rotary burrs sets

N° pezzi N° pieces	Ø	Forme Shapes	Taglio Z2 Cut Z2		Taglio Z3 Cut Z3		Taglio Z2 e Z3 Cut Z2 and Z3	
								
	5	10		cod. 26008203 € cad/each 91,659	26008201 105,766	- -	- -	
	5	12		cod. 26008204 € cad/each 101,541	26008200 110,003	- -	- -	
	10	10		cod. - € cad/each -	- -	26008401 190,384		
	10	12		cod. - € cad/each -	- -	26008402 204,478		
	50	6 8 10 12 15	tutte le forme all shapes	cod. - € cad/each -	- -	26008501 913,600		

EXRINO®



LAME DA TAGLIO

CUTTING BLADES

SEGHE CIRCOLARI IN HSS E HSS-CO PER IL TAGLIO DI ACCIAI E MATERIALI METALLICI

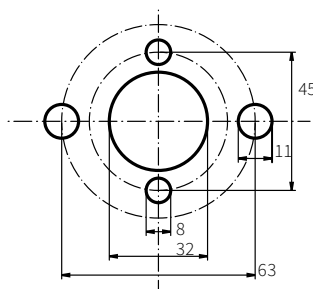
HSS and HSS-CO circular saw blades for cutting steel and metals

~UNI 4012

Troncatrici lente
Slow cutting-off machines



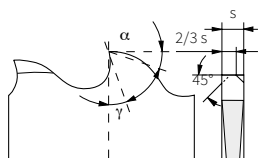
Confezione
Packaging



N°2 Ø 11x63 mm
N°2 Ø 8x45 mm

Fori di trascinamento
Drive holes - Trousse guide

Profilati
Structurals



27001 HSS-G VAPO

BW DIN 1838 t4

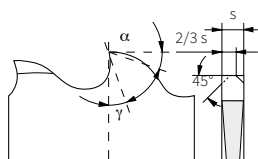
Ø	s	d	z	cod.	€
mm	thickness	hole	n. teeth		cad/each
200	1,8	32	160	27001200	116,339
225	1,9	32	180	27001225	131,856
250	2	32	200	27001250	148,075
275	2,5	32	220	27001275	221,400
300	2,5	32	220	27001300	276,124
315	2,5	32	240	27001315	314,899
350	2,5	32	280	27001350	383,154

27011 HSS-CO 5% VAPO

BW DIN 1838 t4

Ø	s	d	z	cod.	€
mm	thickness	hole	n. teeth		cad/each
200	1,8	32	160	27011200	144,687
225	1,9	32	180	27011225	163,731
250	2	32	200	27011250	184,029
275	2,5	32	220	27011275	274,150
300	2,5	32	220	27011300	308,414
315	2,5	32	240	27011315	335,064
350	2,5	32	280	27011350	430,254

Pieni
Full section



27002 HSS-G VAPO

BW DIN 1838 t5

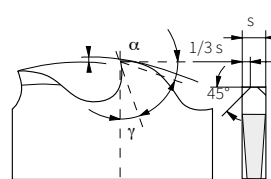
Ø	s	d	z	cod.	€
mm	thickness	hole	n. teeth		cad/each
200	1,8	32	128	27002200	116,339
225	1,9	32	140	27002225	131,856
250	2	32	160	27002250	148,075
275	2,5	32	180	27002275	221,400
300	2,5	32	180	27002300	276,124
315	2,5	32	200	27002315	314,899
350	2,5	32	220	27002350	383,154

27012 HSS-CO 5% VAPO

BW DIN 1838 t5

Ø	s	d	z	cod.	€
mm	thickness	hole	n. teeth		cad/each
200	1,8	32	128	27012200	144,687
225	1,9	32	140	27012225	163,731
250	2	32	160	27012250	184,029
275	2,5	32	180	27012275	274,150
300	2,5	32	180	27012300	308,414
315	2,5	32	200	27012315	335,064
350	2,5	32	220	27012350	430,254

Pieni
Full section



27003 HSS-G VAPO

C (HZ) t6

Ø	s	d	z	cod.	€
mm	thickness	hole	n. teeth		cad/each
200	1,8	32	100	27003200	116,339
225	1,9	32	120	27003225	131,856
250	2	32	128	27003250	148,075
275	2,5	32	140	27003275	221,400
300	2,5	32	160	27003300	276,124
315	2,5	32	160	27003315	314,899
350	2,5	32	180	27003350	383,154

27013 HSS-CO 5% VAPO

C (HZ) t6

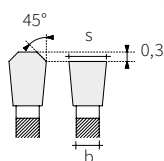
Ø	s	d	z	cod.	€
mm	thickness	hole	n. teeth		cad/each
200	1,8	32	100	27013200	144,687
225	1,9	32	120	27013225	163,731
250	2	32	128	27013250	184,029
275	2,5	32	140	27013275	274,150
300	2,5	32	160	27013300	308,414
315	2,5	32	160	27013315	335,064
350	2,5	32	180	27013350	430,254

t = è il passo tra due denti consecutivi espresso in mm.
t = is the pitch between two consecutive teeth expressed in mm.

SEGHE CIRCOLARI CON DENTI IN METALLO DURO PER ALLUMINIO

Carbide tipped circular blades for Aluminium

27050



Dentatura sbazzatore-finitore
Rough and finishing teeth

N°2 Ø 11x63 mm
Fori di trascinamento
Drive holes

Applicazioni
Applications



Alluminio
Aluminium



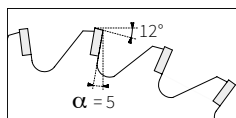
Plastica
Plastic

Ø mm	s spessore thickness	b	d foro hole	z n. denti n. teeth	α spoglia hook angle	cod.	€ cad/each
250	3,2	2,2	32	60	5	270502503260	138,533
250	3,2	2,2	32	80	5	270502503280	150,881
300	3,2	2,4	32	72	5	270503003272	156,115
300	3,2	2,4	32	84	5	270503003284	167,698
300	3,2	2,4	32	96	5	270503003296	182,765
350	3,4	2,8	32	84	5	270503503284	198,451
350	3,4	2,8	32	96	5	270503503296	216,972
350*	3,4	2,8	32	108	5	2705035032108	228,674
400	3,6	2,8	32	96	5	270504003296	251,371
400*	3,6	2,8	32	120	5	2705040032120	293,707
420	3,8	3,0	32	108	5	2705042032108	338,688
450*	3,8	3,0	32	96	5	270504503296	317,520
450*	3,8	3,0	32	108	5	2705045032108	343,980
500*	4,0	3,2	32	120	5	2705050032120	423,360

* Incisioni anti rumore
* Anti noise notches

Speciale per alluminio
special for aluminum

Pieni-profilati
Full section-structurals



Seghe adatte per il taglio di profilati e pieni in Alluminio, leghe non ferrose, resine e plastica dura. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

For cutting structurals and solids of Aluminium and light alloys. The circular blade can't go out the work-piece material further than 10÷15 mm.

SEGA CIRCOLARE UNIVERSALE CON DENTI IN METALLO DURO

Universal carbide tipped circular sawblade

27055



Applicazioni
Applications



Metalli
Metals



Alluminio
Aluminium



Legno
Wood



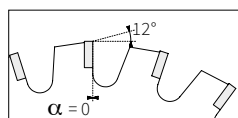
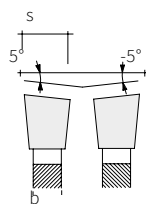
Truciolato
Chipboard



Sandwich
Sandwich



Plastica
Plastic



Ø mm	s spessore thickness	b	d foro hole	z n. denti n. teeth	α spoglia hook angle	cod.	€ cad/each
160	2,2	1,6	20	28	0°	270551602028	104,737
160	2,2	1,6	30	28	0°	270551603028	104,737
180	2,2	1,6	30	32	0°	270551803032	120,289
190	2,2	1,6	30	32	0°	270551903032	120,289
230	2,2	1,6	30	40	0°	270552303040	140,650
240	2,2	1,6	30	42	0°	270552403042	144,883
250	2,4	2,0	20	48	0°	270552502048	159,290
250	2,4	1,8	30	48	0°	270552503048	159,290
300	2,4	1,8	30	60	0°	270553003060	180,398
300	2,4	1,8	30	80	0°	270553003080	204,801
305	2,4	1,8	25,4	80	0°	270553052580	215,467
350	2,5	2,0	30	70	0°	270553503070	252,017
350	2,5	2,0	30	90	0°	270553503090	287,179

Lama circolare con denti in metallo duro per il taglio a secco di ferro, acciaio dolce, alluminio, leghe leggere, materiali composti (pannelli isolanti, laminati), plastica dura, legno e truciolati. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

Ideal for cutting in iron, soft steel, Aluminium, brass, copper, plastics, plexiglass, chipboards, composites. Applications on portable or bench sawing machines. The circular blade can't go out the work-piece material further than 10÷15 mm.

SEGHE CIRCOLARI PER LEGNO CON DENTI IN METALLO DURO PER SEGATRICI PORTATILI

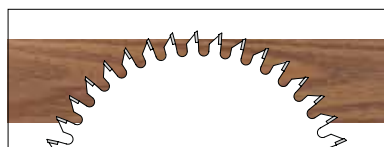
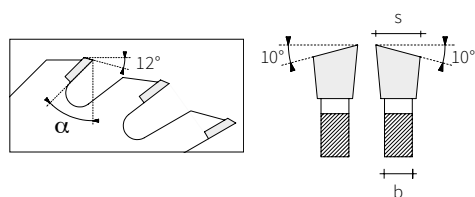
Carbide tipped circular sawblades for wood for portable machines

27060

Per segatrici portatili
For portable circular saws



Confezione
Packaging



La sega circolare deve fuoriuscire dal materiale lavorato di una quantità pari all'altezza dei denti. Il numero di denti impegnati nel taglio deve essere di 2÷3 alla volta.

The overlap of the circular saw blade teeth over the cutting material must be equal to the height of the carbide tip. The number of teeth cutting simultaneously must be 2÷3.

Ø mm	s spessore thickness	b	d foro hole	z n. denti n. teeth	α spoglia hook angle	cod.	€ cad/each
130	2,5	1,6	20	20	15°	270601302020	55,625
140	2,5	1,6	20	20	15°	270601402020	62,011
150	2,5	1,6	16	24	15°	270601501624	64,445
150	2,5	1,6	20	24	15°	270601502024	64,445
150	2,5	1,6	16	40	15°	270601501640	74,911
150	2,5	1,6	20	40	12°	270601502040	74,911
160	2,5	1,6	20	24	15°	270601602024	64,445
160	2,5	1,6	30	24	15°	270601603024	64,445
160	2,5	1,6	20	40	12°	270601602040	77,263
160	2,5	1,6	30	40	12°	270601603040	77,263
170	2,5	1,6	30	24	15°	270601703024	67,421
170	2,5	1,6	30	40	12°	270601703040	80,733
180	2,5	1,6	20	24	15°	270601802024	67,421
180	2,5	1,6	30	24	15°	270601803024	67,421
180	2,5	1,6	20	40	12°	270601802040	80,733
180	2,5	1,6	30	40	12°	270601803040	80,733
190	2,5	1,6	20	24	15°	270601902024	66,833
190	2,5	1,6	30	24	15°	270601903024	66,833
200	2,8	1,8	30	48	12°	270602003048	88,542
210	2,8	1,8	30	24	15°	270602103024	73,382
210	2,8	1,8	30	48	12°	270602103048	90,952
230	2,8	1,8	30	24	15°	270602303024	80,203
230	2,8	1,8	30	48	12°	270602303048	97,373
235	2,8	1,8	30	24	15°	270602353024	80,203
235	2,8	1,8	30	48	12°	270602353048	97,373
240	2,8	1,8	30	24	15°	270602403024	80,203
240	2,8	1,8	30	48	12°	270602403048	97,373

Per avere indicazioni circa il numero di denti adatto alla lavorazione, conoscendo il diametro della sega circolare \varnothing e lo spessore del materiale da lavorare L, è possibile utilizzare la seguente formula $Z = \varnothing \times \beta / L$, dove β è:
7=nel taglio di legno naturale in direzione parallela alle nervature
9=nel taglio di legno naturale in direzione trasversale alle nervature
11=nel taglio di legno duro in direzione trasversale alle nervature e pannelli compositi.



To choose the teeth suitable for processing, if you know the diameter \varnothing of the circular saw blade and the thickness L of the material to be processed it is possible to use the following formula $Z = \varnothing \times \beta / L$, where β is:

7 = natural wood cutting, parallel to the ribs
9 = natural wood cutting, transverse to the ribs
11 = hard wood and composite panels, transverse to the ribs

Applicazioni
Applications



Legno
Wood



Truciolato
Chipboard



Raccomandate per il taglio su macchine portatili di legno, truciolari, laminati, etc... Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

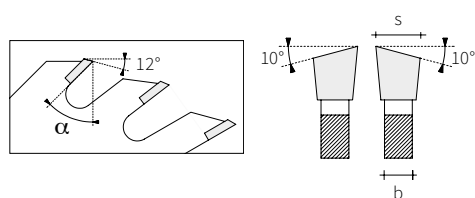
Universal use in wood and chipboard materials with portable machines. The circular blade can't go out the work-piece material further than 10÷15 mm.

LAME PROFESSIONALI PER LEGNO CON DENTI IN METALLO DURO PER TRONCATRICI E SEGHE DA BANCO

Carbide tipped circular sawblades for wood

27070

Per troncatrici e seghe da banco
For mitre and table saws



Ø mm	s spessore thickness	b	d foro hole	z n. denti n. teeth	α spoglia hook angle	cod.	€ cad/each
200	3,2	2,2	30	64	10°	270702003064	127,475
250	3,2	2,2	30	40	10°	270702503040	127,475
250	3,2	2,2	30	60	10°	270702503060	133,908
250	3,2	2,2	30	80	10°	270702503080	141,356
280	3,2	2,2	30	64	10°	270702803064	144,869
280	3,2	2,2	30	80	10°	270702803080	169,579
300	3,2	2,2	30	48	12°	270703003048	139,612
300	3,2	2,2	30	60	12°	270703003060	143,076
300	3,2	2,2	30	72	10°	270703003072	150,199
300	3,2	2,2	30	96	10°	270703003096	171,603
305	3,2	2,2	30	72	10°	270703053072	166,491
305	3,2	2,2	30	96	10°	270703053096	178,422
350	3,5	2,5	30	54	12°	270703503054	154,911
350	3,5	2,5	30	72	12°	270703503072	174,267
350	3,5	2,5	30	84	10°	270703503084	187,458
400	3,8	2,8	30	64	12°	270704003064	217,183
400	3,8	2,8	30	80	12°	270704003080	228,932
400	3,8	2,8	30	96	10°	270704003096	241,045
450	4,0	2,8	30	72	12°	270704503072	289,860

Applicazioni Applications



Legno
Wood



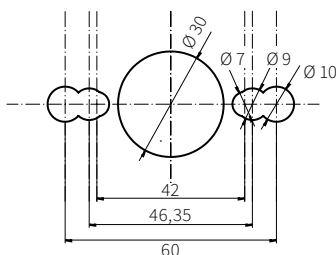
Truciolato
Chipboard



Legno
Wood



Truciolato
Chipboard



N°2 Ø 7x42 mm
N°2 Ø 9x46,35 mm
N°2 Ø 10x60 mm

Fori di trascinamento
Drive holes - Trowse guide

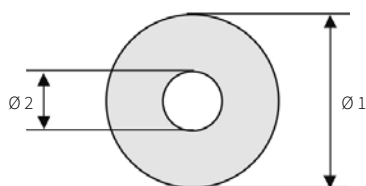
Indicare per il taglio sia longitudinale che trasversale nel legno e derivati (agglomerati, stratificati) con seghe circolari a banco e troncatrici. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

Crosswise and lengthwise cutting in woods and chipboards for any professional use. The circular blade can't go out the work-piece material further than 10÷15 mm.

ANELLI DI RIDUZIONE PER TUTTI I TIPI DI LAME CIRCOLARI

Reduction ring for every kind of circular blades

27072

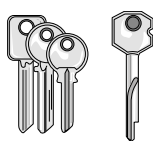
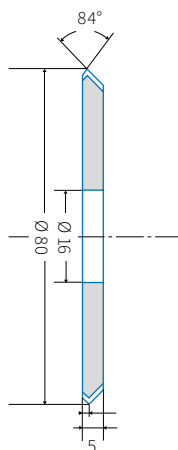


Anelli in rame
Copper rings

Ø 1 / Ø 2	pcs.	cod.	€ cad/each
35 / 30	3	270723530	6,321
35 / 25	3	270723525	6,321
35 / 20	3	270723520	6,321
32 / 30	3	270723230	6,321
32 / 25	3	270723225	6,321
32 / 20	3	270723220	6,321
30 / 25	3	270723025	6,321
30 / 20	3	270723020	6,321
30 / 18	3	270723018	6,321
30 / 16	3	270723016	6,321
25 / 20	3	270722520	6,321
20 / 16	3	270722016	6,321

26125

FRESE BICONICHE
Prismatic milling cutters

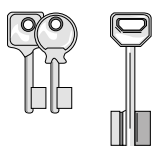
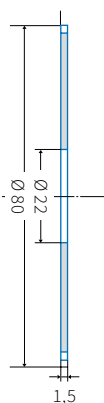


Per macchine duplicatrici di chiavi
For key cutting machines:

Rekord - Rekord plus, Rekord 2000,
Special Super, Special Master,
Bravo Super, Bravo Master,
Bravo Europa, Poker-s, Poker Plus, etc.

Dimensioni Sizes	z n. denti n. teeth	cod.	€ cad/each
Ø 80x5x16 HSS-CO	110	26125001	152,299
Ø 80x5x16 HSS-CO	120	26125002	173,460
Ø 80x5x16 ASP 30 - CO8%	110	26125003	208,715
Ø 80x5x16 Metallo duro Carbide	80	26125005	834,446

FRESE A DISCO A 3 TAGLI
Three cutting milling cutters

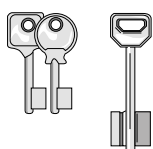
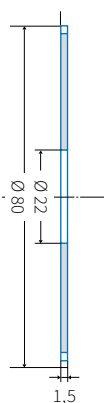


Per macchine duplicatrici di chiavi
For key cutting machines:

Targa -Targa 2000 -Targa 2000 P
Tech 3, Modular IV, Serenissima,
Opera IV, X80, GT 40B, GT 40C,
GT 40D, Super Dar, Mini Jolly, etc.

Dimensioni Sizes	z n. denti n. teeth	cod.	€ cad/each
Ø 80x1,5x22 HSS-CO8%	100	26125010	152,299
Ø 80x1,5x22 ASP 30 - CO8%	100	26125012	208,715
Ø 80x1,5x22 Metallo duro Carbide	100	26125015	632,354

FRESE A DISCO A TAGLIO PERIFERICO
Peripheral milling cutters



Per macchine duplicatrici di chiavi
For key cutting machines:

Targa -Targa 2000 -Targa 2000 P
Tech 3, Modular IV, Serenissima,
Opera IV, X80, GT 40B, GT 40C,
GT 40D, Super Dar, Mini Jolly, etc.

Dimensioni Sizes	z n. denti n. teeth	cod.	€ cad/each
Ø 80x1,5x22 HSS-CO8%	100	26125020	74,748
Ø 80x1,5x22 ASP 30* - CO8%	100	26125022	122,690
Ø 80x1,5x22 Metallo duro Carbide	100	26125025	401,915

* ASP 30 Acciaio superrapido sinterizzato (Metallurgia delle polveri)
* Sinterized steel C 1,28% - Cr 4,2% - Mo 5% - W 6,4% - Co 8,5% - V 3,1%

LAME A NASTRO BIMETALLICHE AD ALTE PRESTAZIONI - METALLURGIA DELLE POLVERI

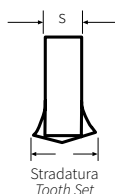
Bimetal band saw blades - HSS POWDER METAL

Alte prestazioni - HSS PM
High performance special blade - HSS PM

25018



Dentatura / Teeth
ASP Metallurgia delle polveri
HRC: 70/71
Strip di supporto / Body
HRC: 48/50
(Alto contenuto di cromo / High chrome)



Stradatura
Tooth Set

Moduli dentature a passo variabile
Variable pitch modules



Variabile
Variable

Triplo truciolo
Triple chip



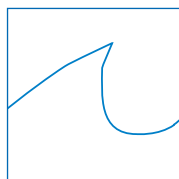
Metallurgia delle polveri

L'acciaio superrapido, derivato dal processo di metallurgia delle polveri, offre prestazioni eccezionali: presenta una elevata durezza a caldo e una elevata tenacità, garantita dall'alto contenuto di elementi di lega e dalla microstruttura fortemente omogenea. Gli utensili prodotti con la metallurgia delle polveri (Powder Metallurgy) hanno una durata più elevata ed un rendimento più alto, oltre che una finitura superficiale ottima, che agevola lo scorrimento dei trucioli di lavorazione lontano dalla zona di taglio.

Powder metallurgy

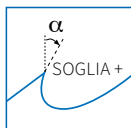
HSS made by powder metallurgy has excellent performances: its homogeneous structure assures high toughness and high resistance. The finishing of the tools are really smooth, so the chip can easily be evacuated far from the cutting zone, thus avoiding built-up edge growth.

Profilo a dente di produzione
Production tooth



Speciale geometria del dente realizzato con acciaio superrapido e metallurgia delle polveri. Ha profilo PRODUCTION TOOTH e un'ampia gola di scarico XL.

Special tooth geometry made of high speed steel and powder metallurgy. It has PRODUCTION TOOTH profile and a wide XL discharge groove.

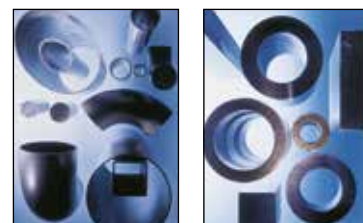


SPOGLIA ESTREMAMENTE POSITIVA 12°
EXTREMELY Positive rake 12°

Dentatura variabile
Variable tooth
(z - tpi 0,75/1,25÷5/8)

Utilizzare su segatrici prevalentemente a ciclo di taglio automatico, in tutte le lavorazioni particolarmente gravose dove necessiti una lama che garantisca una elevata, costante e duratura resa prestazionale. Dedicata al taglio di sezioni piene ma anche interrotte (di medio o forte spessore), singole o eventualmente disposte affiancate in acciai con $R < 1400 \text{ N/mm}^2$, acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai per lavorazioni a freddo e a caldo, acciai inossidabili, acciai inox resistenti al calore (Duplex®, Super Duplex®), titanio, leghe speciali.

Use on sawing machines mainly with automatic cutting cycle, in all particularly demanding processes where you need a blade that guarantees a high, constant and long-lasting performance. Dedicated to the cutting of solid or interrupted sections (of medium or strong thickness), single or possibly placed side by side in steels with $R < 1400 \text{ N/mm}^2$, tempered steels, bearing steels, steels for molds, steels for cold working and hot, stainless steels, heat resistant stainless steels (Duplex®, Super Duplex®), titanium, special alloys.



Dimensioni (Altezza x Spessore) Dimensions (Width x Thickness)	Passo dentatura (Moduli a passo variabile in Tpi) Toothing pitch (Variable pitches modules in Tpi)						Prezzo (Al metro saldatura compresa) Price (For meter weld included)
mm	1 / 1,4	1,4 / 2	2 / 3	3 / 4	4 / 6	5 / 8	€
27 x 0,90			X	X	X	X	29,759
34 x 1,10		X	X	X	X	X	37,045
41 x 1,30		X	X	X	X		51,571
54 x 1,60	X	X	X	X	X		70,099

LAME A NASTRO BIMETALLICHE AD ALTE PRESTAZIONI - HSS AISI M42

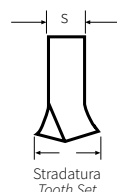
Bimetal band saw blades - HSS AISI M42

25011

Alte prestazioni
High performance



Dentatura / Teeth
AISI M42 - 8%Co
HRC: 68/69
Strip di supporto / Body
HRC: 48/50
(Alto contenuto di cromo / High chrome)



Moduli dentature a passo variabile Variable pitch modules



Variabile
Variable

Normale dritta Straight raker set



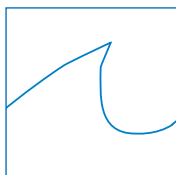
la più utilizzata
most used

Moduli dentature a passo costante Constant pitch modules



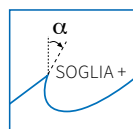
Fissa
Regular

Profilo a dente curvilineo Curvilinear tooth



Dente curvilineo che garantisce una esecuzione di taglio efficace e lineare, a beneficio di un migliore avanzamento.

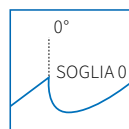
Curvilinear tooth that guarantees an effective and linear cutting execution to fit a better feed.



SPOGLIA ESTREMAMENTE POSITIVA 12°
EXTREMELY Positive rake 12°

Dentatura variabile
Variable tooth
(z - tpi 1/1,4÷5/8)3

Dentatura costante
Regular tooth
(z - tpi 2÷6)



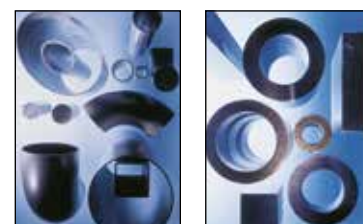
SPOGLIA NEUTRA
Standard straight rake

Dentatura variabile
Variable tooth
(z - tpi 6/10÷10/14)

Dentatura costante
Regular tooth
(z - tpi 10÷18)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), in tutti i generi di lavorazioni artigianali ed industriali dove necessiti una elevata resa prestazionale e vita operativa dell'utensile, per il taglio di sezioni piene ed interrotte, singole o disposte a fascio, in acciai fino a 1300 N/mm², acciai strutturali, acciai automatici, acciai al carbonio, acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai inossidabili, ghise lamellari e sferoidali, metalli non ferrosi come alluminio e rame, materie plastiche, materiali non metallici in genere.

Use on cutting-cycle saws (manual or automatic), in all kinds of artisan and industrial processes where a high performance yield and working life of the tool is required, for cutting full and interrupted sections, single or bundled, in steels up to 1300 N/mm², structural steels, automatic steels, carbon steels, tempered steels, bearing steels, steels for molds, stainless steels, lamellar and spheroidal cast irons, non-ferrous metals such as aluminum and copper, plastics, non-metallic materials in general.



Dimensioni (Altezza x Spessore) Dimensions (Width x Thickness)	Passo dentatura (Moduli a passo costante e variabile in Tpi) Toothing pitch (Constant and variable pitches modules in Tpi)													Prezzo (Al metro saldatura compresa)		
	3	4	6	10	14	18	1/1,4	1,4/2	2/3	3/4	4/6	5/8	6/10	8/12	10/14	Price (For meter weld included)
	mm															€
6 x 0,65			X												X	20,798
6 x 0,90		X	X	X	X										X	20,798
10 x 0,65		X	X												X	22,085
10 x 0,90		X	X	X	X										X	22,085
13 x 0,65	X	X	X	X	X	X						X	X	X	X	22,868
13 x 0,90	X	X	X	X	X							X	X	X	X	22,868
20 x 0,90	X	X	X	X	X						X	X	X	X	X	23,864
27 x 0,90					X				X	X	X	X	X	X	X	29,172
34 x 1,10								X	X	X	X	X	X	X		33,728
41 x 1,30								X	X	X	X	X	X			48,247
54 x 1,30								X	X	X	X					57,507
54 x 1,60							X	X	X	X	X					66,600

LAME A NASTRO BIMETALLICHE PER CARPENTERIA - HSS AISI M42

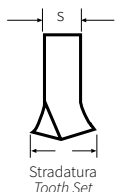
Bimetal band saw blades - HSS AISI M42

25016

Dente rinforzato
Reinforced tooth



Dentatura / Teeth
AISI M42 - 8%Co
HRC: 67/69
Strip di supporto / Body
HRC: 44/46



Moduli dentature a passo variabile
Variable pitch modules

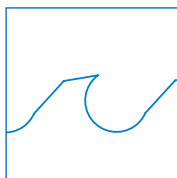


Variabile
Variable

Stradatura maggiorata
Extra set

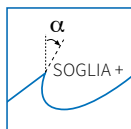


Profilo a dente rinforzato
Reinforced tooth



Dente a profilo rinforzato, per una netta riduzione dei fenomeni di rottura dei denti ed una eccezionale resistenza agli impatti e alle vibrazioni.

Tooth with reinforced profile, for a clear reduction of the breaking phenomena of the teeth and an exceptional resistance to impacts and vibrations.

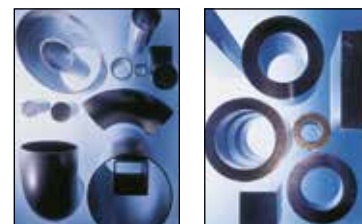


SPOGLIA POSITIVA 7°
Positive rake 7°

Dentatura variabile
Variable tooth
(z - tpi 0,75/1,25÷5/8)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), nelle lavorazioni di carpenteria dove necessiti una lama estremamente resistente e versatile, atta a tagliare le più diverse forme e spessori di materiali. Dedicata prevalentemente al taglio di sezioni interrotte (tubi, profilati, ecc.) ma anche di sezioni piene, singole o disposte a fascio di acciai fino a 1200 N/mm², acciai strutturali, acciai automatici, acciai al carbonio.

Use on cutting machines (manual or automatic), in carpentry work where you need an extremely resistant and versatile blade, able to cut the most different shapes and thicknesses of materials. Dedicated mainly to cutting interrupted sections (pipes, profiles, etc.) but also of solid, single or beam sections of steels up to 1200 N/mm², structural steels, automatic steels, carbon steels.



Dimensioni (Altezza x Spessore) Dimensions (Width x Thickness)	Passo dentatura (Moduli a passo variabile in Tpi) Toothing pitch (Variable pitches modules in Tpi)						Prezzo (Al metro saldatura compresa) Price (For meter weld included)
	2/3	3/4	4/6	5/7	8/11	12/16	€
	mm						
13 x 0,65					X		15,640
13 x 0,90					X		15,640
20 x 0,90				X	X		17,268
27 x 0,90	X	X	X	X	X		19,577
34 x 1,10	X	X	X	X			26,305
41 x 1,30	X	X	X			X	42,165

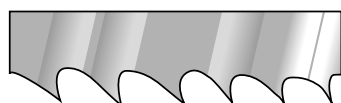
LAME A NASTRO BIMETALLICHE MULTIUSO - HSS AISI M42

Bimetal band saw blades - HSS AISI M42

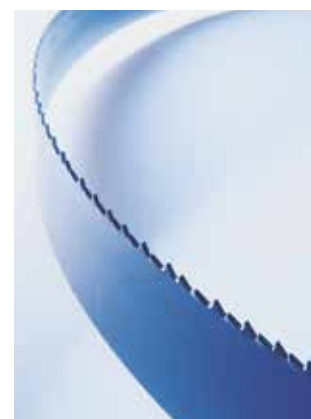
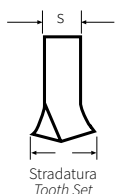
25010

Lama multiuso

Multipurpose blade



Dentatura / Teeth
AISI M42 - 8%Co
HRC: 67/69
Strip di supporto / Body
HRC: 44/46



Moduli dentature a passo variabile

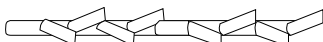
Variable pitch modules



Variabile
Variable

Normale dritta

Straight raker set



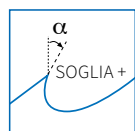
la più utilizzata
most used

Moduli dentature a passo costante

Constant pitch modules



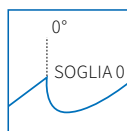
Fissa
Regular



SPOGLIA POSITIVA 8°
Positive rake 8°

Dentatura variabile
Variable tooth
(z - tpi 1,4/2÷5/8)

Dentatura costante
Regular tooth
(z - tpi 2÷6)



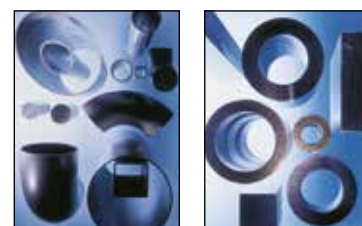
SPOGLIA NEUTRA
Standard straight rake

Dentatura variabile
Variable tooth
(z - tpi 6/10÷14/18)

Dentatura costante
Regular tooth
(z - tpi 8÷18)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), in tutti i generi di lavorazioni artigianali ed industriali, per il taglio di sezioni piene ed interrotte, singole o disposte a fascio, di acciai fino a 1200 N/mm², acciai strutturali, acciai automatici, acciai al carbonio, ghise lamellari e sferoidali, metalli non ferrosi (alluminio, rame,...) materie plastiche, materiali non metallici in genere.

Use on cutting-cycle saws (manual or automatic), in all kinds of artisanal and industrial processes, for cutting solid and interrupted sections, single or arranged in bundles, of steels up to 1200 N/mm², structural steels, automatic steels, carbon steels, lamellar and spheroidal cast irons, non-ferrous metals (aluminum, copper,...) plastics, non-metallic materials in general.



Dimensioni (Altezza x Spessore) Dimensions (Width x Thickness)	Passo dentatura (Moduli a passo costante e variabile in Tpi) Toothing pitch (Constant and variable pitches modules in Tpi)														Prezzo (Al metro saldatura compresa) Price (For meter weld included)				
	2	3	4	6	8	10	14	18	1,4/2	2/3	3/4	4/6	5/8	6/10	8/12	10/14	14/18	€	
	mm																		
13 x 0,65		X	X	X		X	X	X						X	X	X	X	X	15,360
13 x 0,90		X	X	X		X	X							X	X	X	X		15,360
20 x 0,90		X	X	X		X	X						X	X	X	X	X		17,268
27 x 0,90	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		18,572
34 x 1,10										X	X	X	X	X	X				23,091
41 x 1,30									X	X	X	X	X						33,531

**LISTINO ANELLI SALDATI
PER LE SEGATRICI PIÙ COMUNI**
Price list for the most common welded bandsaw blades

25010

Dimensioni Sizes	€	Dimensioni Sizes	€	Dimensioni Sizes	€
1138 x 13 x 0,65	17,481	2580 x 27 x 0,90	47,917	3505 x 27 x 0,90	65,097
1140 x 13 x 0,65	17,512	2590 x 27 x 0,90	48,103	3580 x 27 x 0,90	66,490
1295 x 13 x 0,65	19,892	2600 x 27 x 0,90	48,289	3660 x 27 x 0,90	67,975
1300 x 13 x 0,65	19,970	2650 x 27 x 0,90	49,217	3810 x 27 x 0,90	70,762
1325 x 13 x 0,65	20,353	2700 x 27 x 0,90	50,146	3850 x 27 x 0,90	71,504
1330 x 13 x 0,65	20,430	2710 x 27 x 0,90	50,332	3900 x 27 x 0,90	72,434
1335 x 13 x 0,65	20,507	2720 x 27 x 0,90	50,518	3505 x 34 x 1,10	80,933
1440 x 13 x 0,65	22,119	2750 x 27 x 0,90	51,075	3634 x 34 x 1,10	83,913
1470 x 13 x 0,65	22,580	2755 x 27 x 0,90	51,168	3660 x 34 x 1,10	84,512
1638 x 13 x 0,65	25,162	2760 x 27 x 0,90	51,260	4100 x 34 x 1,10	94,672
1640 x 13 x 0,65	25,192	2765 x 27 x 0,90	51,353	4115 x 34 x 1,10	95,019
1735 x 13 x 0,65	26,652	2770 x 27 x 0,90	51,446	4120 x 34 x 1,10	95,134
1735 x 13 x 0,90	26,652	2800 x 27 x 0,90	52,003	4250 x 34 x 1,10	98,136
1740 x 13 x 0,90	26,728	2825 x 27 x 0,90	52,468	4460 x 34 x 1,10	102,985
1745 x 13 x 0,90	26,805	2830 x 27 x 0,90	52,560	4500 x 34 x 1,10	103,909
1750 x 13 x 0,90	26,882	2835 x 27 x 0,90	52,653	4570 x 34 x 1,10	105,525
1900 x 20 x 0,90	32,810	2840 x 27 x 0,90	52,746	4600 x 34 x 1,10	106,217
2000 x 20 x 0,90	34,536	2845 x 27 x 0,90	52,839	4860 x 34 x 1,10	112,221
2060 x 20 x 0,90	35,572	2850 x 27 x 0,90	52,932	4970 x 34 x 1,10	114,761
2080 x 20 x 0,90	35,918	2880 x 27 x 0,90	53,489	5300 x 34 x 1,10	122,381
2140 x 20 x 0,90	36,954	2925 x 27 x 0,90	54,326	5400 x 34 x 1,10	124,690
2160 x 20 x 0,90	37,299	2940 x 27 x 0,90	54,603	5600 x 34 x 1,10	129,308
2190 x 20 x 0,90	37,818	2945 x 27 x 0,90	54,696	6150 x 34 x 1,10	142,008
2360 x 20 x 0,90	40,753	2950 x 27 x 0,90	54,788	4550 x 41 x 1,30	152,568
2375 x 20 x 0,90	41,013	3000 x 27 x 0,90	55,718	4870 x 41 x 1,30	163,297
2465 x 20 x 0,90	42,567	3010 x 27 x 0,90	55,904	5100 x 41 x 1,30	171,009
2500 x 20 x 0,90	43,172	3025 x 27 x 0,90	56,183	5250 x 41 x 1,30	176,039
2525 x 20 x 0,90	43,603	3100 x 27 x 0,90	57,575	5300 x 41 x 1,30	177,716
2530 x 20 x 0,90	43,690	3120 x 27 x 0,90	57,947	5400 x 41 x 1,30	181,069
2625 x 20 x 0,90	45,330	3150 x 27 x 0,90	58,503	5450 x 41 x 1,30	182,746
2650 x 20 x 0,90	45,762	3180 x 27 x 0,90	59,061	5550 x 41 x 1,30	186,098
2450 x 27 x 0,90	45,503	3200 x 27 x 0,90	59,433	5620 x 41 x 1,30	188,446
2500 x 27 x 0,90	46,432	3225 x 27 x 0,90	59,896	5800 x 41 x 1,30	194,481
2520 x 27 x 0,90	46,803	3320 x 27 x 0,90	61,662	6150 x 41 x 1,30	206,218
2550 x 27 x 0,90	47,360	3370 x 27 x 0,90	62,589	6380 x 41 x 1,30	213,930
2560 x 27 x 0,90	47,546	3435 x 27 x 0,90	63,796	7400 x 41 x 1,30	248,132

INFORMAZIONE IMPORTANTE

Main tip

All'atto dell'ordine verificare il corretto senso di rotazione desiderato (Standard e/o inverso) in funzione del modello di segatrice
When ordering please verify the sense of rotation you need (STANDARD and/or REVERSE) depending on the machine type



Art. 28020005
€ 120,995

Olio da taglio emulsionabile in tanica 5 Kg (5lt)
Cutting oil tank 5 lt

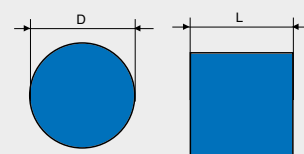


Art. 28020004
€ 37,614

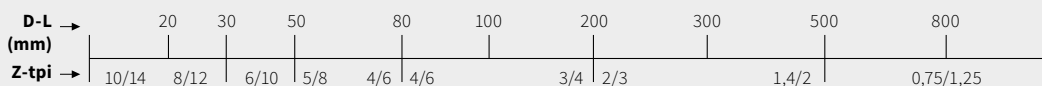
Olio da taglio minerale intero 0,5 lt
Cutting oil 0,5 lt

TABELLA PER LA SCELTA DELLA DENTATURA (PER OGNI TIPO DI LAMA)

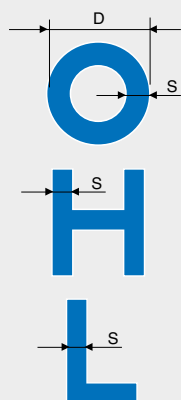
Tooth selection



Dentatura variabile - Variable tooth Sezioni piene - Solid cross section



Dentatura costante - Regular tooth Sezioni piene - Solid cross section



S (mm)	D (mm)											
	20	40	60	80	100	120	150	200	300	400	500	
< 2	14	14	10/14	10/14	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10
3	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	6/10	6/10	5/8
4	8/12	8/12	8/12	8/12	8/12	6/10	6/10	6/10	5/8	5/8	5/8	4/6
5	8/12	8/12	8/12	6/10	6/10	6/10	6/10	5/8	5/8	5/8	5/8	4/6
6	6/10	6/10	6/10	6/10	6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6
8	6/10	6/10	6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6	4/6
10		5/8	5/8	5/8	5/8	5/8	4/6	4/6	4/6	4/6	4/6	3/4
12		5/8	5/8	5/8	4/6	4/6	4/6	4/6	4/6	3/4	3/4	3/4
15		4/6	4/6	4/6	4/6	4/6	3/4	3/4	3/4	3/4	3/4	3/4
20			4/6	4/6	3/4	3/4	3/4	3/4	3/4	3/4	3/4	2/3
30				3/4	3/4	3/4	2/3	2/3	2/3	2/3	2/3	2/3
50						2/3	2/3	2/3	2/3	2/3	2/3	2/3

Parametri di taglio Cutting parameters

Materiale da tagliare
Material to cut

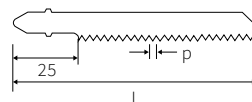
Velocità di rotazione lama
Band saw blade rotation
speed m/min.

Ferro comune, Acciai strutturali / Iron, Structural steels	70 ÷ 90
Acciai automatici, Acciai al carbonio / Free-machining steels, Carbon steels	70 ÷ 80
Acciai da bonifica / Heat-treatable steels	60 ÷ 70
Acciai per cuscinetti / Ball bearing steels	55 ÷ 65
Acciai per molle / Spring steel	45 ÷ 60
Acciai per stampi / Mould steels	25 ÷ 40
Acciai per lavorazioni a freddo / Cold-working steels	25 ÷ 40
Acciai per lavorazioni a caldo / Hot-working steels	25 ÷ 40
Acciai inossidabili e resistenti agli acidi / Stainless and acid-resistant steels	30 ÷ 40
Acciai inossidabili resistenti al calore / Heat-resistant stainless steels (DUPLEX, SUPER DUPLEX...)	25 ÷ 35
Leghe speciali a base di Nichel / Nickel-base alloys (HASTELLO, INCONEL...)	15 ÷ 25
Titanio e leghe derivate / Titanium and derivated alloys	25 ÷ 45
Ghise lamellari e sferoidali / Cast irons lamellar and spheroidal	35 ÷ 55
Metalli non ferrosi quali Alluminio, Rame... / Non ferrous metals as Aluminium, Copper...	60 ÷ 200
Materie plastiche / Plastics	80 ÷ 400









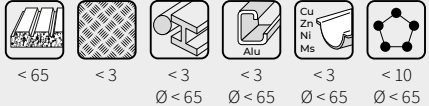


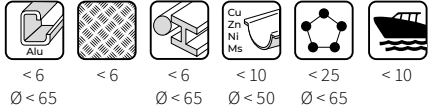
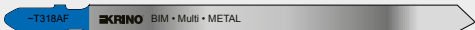

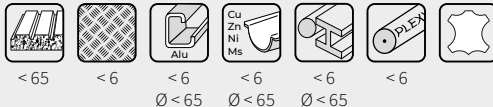





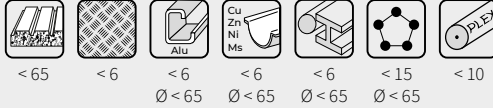



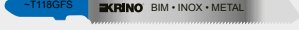


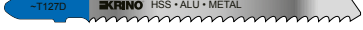


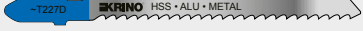


LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BOSCH® PER METALLI

Jig saw blades BOSCH® type for metals

23620



Metalli
Metals

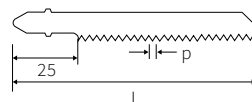
cod. € conf./pack	simile a similar to		Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
 23620100 € 5,302	≈ T118G	BASIC	76x0,8 3x32	HSS Fresata Milled		 < 1,5 < 1,5 < 1,5
 23620110 € 5,229	≈ T218A	BASIC	76x1,2 3x21	HSS Fresata Milled		 < 3 < 3 < 3
 23620115 € 9,059	≈ T318A	BASIC	132x1,2 5x21	HSS Fresata Milled		 < 65 < 3 < 3 < 3 < 3 < 10 Ø < 65 Ø < 65 Ø < 65 Ø < 65
 23620125 € 9,280	≈ T318B	BASIC	132x2 5x12	HSS Fresata Milled		 < 6 < 6 < 6 < 10 < 25 < 10 Ø < 65 Ø < 65 Ø < 50 Ø < 65
 23620130 € 9,309	≈ T318AF	MULTI	132x1,2 5x21	HSS Fresata Milled		 < 65 < 6 < 6 < 6 < 6 < 6 Ø < 65 Ø < 65 Ø < 65
 23620150 € 5,302	≈ T118BF1	MULTI	76x2 5x12	HSS Fresata Milled		 < 6 < 6 < 6 < 6 < 6 < 6
 23620155 € 9,309	≈ T318BF	MULTI	132x2 5x12	HSS Fresata Milled		 < 65 < 6 < 6 < 6 < 6 < 15 < 10 Ø < 65 Ø < 65 Ø < 65 Ø < 65
 23620170 € 6,998	≈ T123XF	VARIABLE	100x1,2÷2,6 4x10÷21	HSS Fresata Milled		 < 10 < 10 < 10 < 10 < 10
 23620175 € 8,338	≈ T118GFS	INOX	82x0,8 3x32	HSS Fresata Milled		 < 1,5
 23620180 € 7,329	≈ T127D	ALU	100x3 4x8	HSS Fresata Milled		 < 15 < 15 < 15 < 15 Ø < 30
 23620185 € 5,598	≈ T227D	ALU	100x3 4x8	HSS Fresata Milled		 < 15 < 15 < 15 < 15 Ø < 30

 **Confezione**
Packaging
3 pcs.













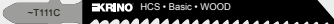

























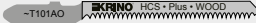












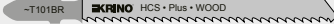






LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BOSCH® PER LEGNO

Jig saw blades BOSCH® type for wood and plywood

23600



Legno dolce
Mild wood

cod. € conf./pack	simile a similar to		Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
 23600100 € 3,903	≈ T119B	BASIC	76x2 3x12	HCS  Fresata Milled		 < 15  < 15  < 15
 23600105 € 3,903	≈ T119B0	BASIC	76x2 3x12	HCS  Fresata Milled		 < 15  < 15  < 15
 23600110 € 3,020	≈ T111C	BASIC	100x3 4x8	HCS  Fresata Milled		 < 50  < 50  < 50  < 5 Ø < 30
 23600130 € 5,451	≈ T144D	FAST	100x4 4x6	HCS  Rettificata Ground		 < 50  < 50  < 50  < 5 Ø < 50
 23600135 € 5,892	≈ T244D	FAST	100x4 4x6	HCS  Rettificata Ground		 < 50  < 50  < 50  < 5 Ø < 50
 23600140 € 7,218	≈ T344D	FAST	132x4 5x6	HCS  Rettificata Ground		 < 100  < 100
 23600150 € 5,598	≈ T101AO	PLUS	76x1,4 3x18	HCS  Rettificata Ground		 < 15  < 15  < 15
 23600155 € 6,702	≈ T101B	PLUS	100x2,5 4x10	HCS  Rettificata Ground		 < 30  < 30  < 30  < 5 Ø < 30
 23600160 € 11,342	≈ T101BR	REVERSE	100x2,5 4x10	HCS  Rettificata Ground		 < 30  < 30  < 30  < 5 Ø < 30

 **Confezione**
Packaging
3 pcs.

Esempio di interpretazione della colonna "Impieghi (mm)":
How to read the "Application (mm)" column:



< 50

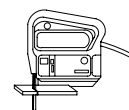
Idoneo al taglio di legno stratificato dello spessore massimo di 50 mm
Suitable for cutting stratified wood - max thickness 50 mm



< 5

Ø < 50

Idoneo al taglio di plastica in lastre con spessori fino a 5 mm
e profili con dimensione massima 50 mm
Suitable for cutting plastics sheet (max thickness 5 mm)
and plastics pipes / structural (max dimension 50 mm)



AEG, ATLAS COPCO, BOSCH,
DE WALT, ELU, FESTOOL, HITACHI,
MAKITA, METABO, HILTI, MAFELL,
MILWAUKEE, RYOBI, SKIL...^(*)

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BOSCH® PER LEGNO

Jig saw blades BOSCH® type for wood and plywood

Legno dolce
Mild wood

23600

cod. € conf./pack	simile a similar to	Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23600170 € 8,934	≈ T308B PRO	116x2,2 4½x11	HCS Rettificata Ground		< 65 < 65 < 65
23600175 € 8,934	≈ T308B0 PRO	116x2,2 4½x11	HCS Rettificata Ground		< 65 < 65 < 65
23600180 € 3,535	≈ T144DP ULTRA	100x4 4X6	HCS Rettificata Ground		< 50 < 50 < 50 < 5 Ø < 30
23600190 € 8,934	≈ T234X VARIABLE	116x2÷3 4½x8÷12	HCS Rettificata Ground		< 65 < 65 < 65

Confezione
Packaging
3 pcs.

23610

Legno duro
Hard wood

cod. € conf./pack	simile a similar to	Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23610105 € 16,328	≈ T344DF FAST	152x4 6X6	HCS Rettificata Ground		< 65 < 100 < 100 < 100
23610120 € 10,311	≈ T101BF PLUS	100x2,5 4X10	HCS Rettificata Ground		< 30 < 30 < 25 Ø < 50 < 10 < 5 < 5 Ø < 40 < 10 Cu Zn Ni Ms Ø < 50 < 45 Ø < 50
23610125 € 10,311	≈ T101BRF REVERSE	100x2,5 4X10	HCS Rettificata Ground		< 30 < 30 < 25 Ø < 50 < 45
23610140 € 9,295	≈ T101BIF LAMINATE	82x1,7 3X15	HCS Rettificata Ground		< 15 < 15 < 15
23610150 € 12,227	≈ T345XF VARIABLE	132x2,4÷5 5X5÷10	HCS Fresata Milled		< 65 < 30 Ø < 65 < 10 Cu Zn Ni Ms Ø < 10 < 6 Ø < 65 < 2

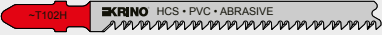







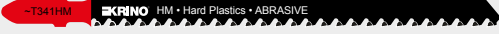
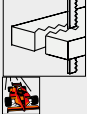









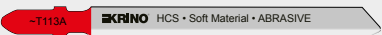



Confezione
Packaging
3 pcs.

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BOSCH® PER APPLICAZIONI SPECIALI

Jig saw blades BOSCH® type for special applications

23630

Applicazioni speciali Special applications

cod. € conf./pack	simile a similar to	Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
 23630090 € 4,611	≈ T102H PVC	100x2,3 4x11	HCS Rettificata Ground		 < 15 Ø < 30
 23630100 € 8,101	≈ T101A PC	76x1,4 3x18	HSS Rettificata Ground		 < 15  < 15  < 15
 23630130 € 37,239	≈ T341HM HARD PLASTICS	132x4 5x6	Con inserti in MD Carbide tip		 < 50  < 80  < 20
 23630150 € 12,227	≈ T150RIFF GRIT 50	76 grana 50 3	Con grani in MD Carbide grit		 < 10  < 10  < 10  < 4
 23630160 € 4,810	≈ T113A SOFT	100 4	HCS Rettificata Ground		 < 50  < 10

 Confezione
Packaging
3 pcs.

Tabella di comparazione Choosing chart
















Codice Bosch Bosch code	Codice Krino Krino code	Codice Bosch Bosch code	Codice Krino Krino code
≈T101A	23630100	≈T144D	23600130
≈T101AO	23600150	≈T144DP	23600180
≈T101B	23600155	≈T150RIFF	23630150
≈T101BF	23610120	≈T218A	23620110
≈T101BIF	23610140	≈T227D	23620185
≈T101BR	23600160	≈T234X	23600190
≈T101BRF	23610125	≈T244D	23600135
≈T102H	23630090	≈T308B	23600170
≈T111C	23600110	≈T308BO	23600175
≈T113A	23630160	≈T318A	23620115
≈T118BF	23620150	≈T318AF	23620130
≈T118G	23620100	≈T318B	23620125
≈T118GFS	23620175	≈T318BF	23620155
≈T119B	23600100	≈T341HM	23630130
≈T119BO	23600105	≈T344D	23600140
≈T123XF	23620170	≈T344DF	23610105
≈T127D	23620180	≈T345XF	23610150

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BLACK&DECKER® PER METALLO

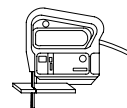
Jig saw blades BLACK & DECKER® type for metals

Metalli
Metals

23710

cod. € conf./pack	simile a similar to		Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23710100 € 5,818	≈ U118A	BASIC	76x1,2 3x21	HSS Fresata Milled		 < 3  < 3  < 3
23710105 € 5,818	≈ U118B	BASIC	76x2 3x12	HSS Fresata Milled		 < 6  < 6  < 6
23710115 € 7,365	≈ U127D	ALU	100x3 4x8	HSS Fresata Milled		 < 15  < 15  < 15  < 15  < 30  < 30

Confezione
Packaging
3 pcs.













BLACK&DECKER,
KRESS, RYOBI, SKIL,...(*)

SEGHETTI BIMETAL CON ATTACCO SPECIALE SIG PER MACCHINE PNEUMATICHE ED ELETTRICHE, SPECIALI PER CARROZZERIA

Compressed-air saw blades

Metalli
Metals

23720

cod. € conf./pack	simile a similar to		Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23720100 € 11,717	≈ SIG1150		95x1,8 334x14	BIM HSS Fresata Milled		
23720105 € 11,717	≈ SIG1152		95x1 334x25	BIM HSS Fresata Milled		 < 6  < 6  < 6
23720110 € 11,717	≈ SIG1153		95x0,7 334x36	BIM HSS Fresata Milled		 < 15  < 15  < 15

Confezione
Packaging
5 pcs.

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BLACK&DECKER® PER LEGNO

Jig saw blades BLACK&DECKER® type for wood and plywood

23700

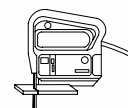
Legno dolce
Mild wood

cod. € conf./pack	simile a similar to		Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23700100 € 3,020	≈ U111C	BASIC	100x3 4x8	HCS Fresata Milled		 < 50 < 50 < 50 < 5 Ø < 30
23700105 € 3,027	≈ U111D	BASIC	100x4 4x6	HCS Fresata Milled		 < 65 < 65 < 65 < 5 Ø < 50
23700110 € 3,668	≈ U144D	FAST	100x4 4x6	HCS Rettificata Ground		 < 65 < 65 < 65 < 5 Ø < 30
23700115 € 5,944	≈ U1A0	PLUS	76x1,4 3x18	HCS Rettificata Ground		 < 15 < 15 < 15 < 15
23700120 € 6,408	≈ U101B	PLUS	100x2,5 4x10	HCS Rettificata Ground		 < 45 < 45 < 5 < 45
23700125 € 6,408	≈ U101D	PLUS	100x4 4x6	HCS Rettificata Ground		 < 45 < 45 < 5 < 45
23700130 € 9,648	≈ U234X	VARIABLE	106x2÷3 4x8÷12	HCS Rettificata Ground		 < 65 < 65 < 65

Confezione
Packaging
3 pcs.

Tabella di comparazione Choosing chart

Codice Bosch Bosch code	Codice Krino Krino code
≈U101B	23700120
≈U101D	23700125
≈U111C	23700100
≈U111D	23700105
≈U118A	23710100
≈U118B	23710105
≈U127D	23710115
≈U144D	23700110
≈U1A0	23700115
≈U234X	23700130



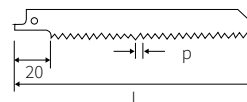
BLACK&DECKER,
KRESS, RYOBI, SKIL,...(*)

HCS • Variable • WOOD

LAME PER SEGHETTI A GATTUCCIO CON ATTACCO UNIVERSALE SABRE® PER METALLO

Reciprocating blades SABRE® universal type for metals

23810



Metalli
Metals

cod. € conf./pack	simile a similar to	Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23810100 € 9,324	≈ S922EF	150x1,4 6x18	BIM HSS Fresata Milled		< 4 < 4 Ø < 100 Ø < 100
23810110 € 12,316	≈ S1122BF	230x1,8 9x14	BIM HSS Fresata Milled	 	< 8 < 8 Ø < 175 Ø < 175
23810120 € 9,280	≈ S123XF	150x1,8÷3,2 6x8÷14	BIM HSS Fresata Milled	 	< 8 < 8 Ø < 100 Ø < 100
23810150 € 17,624	≈ S1126CHF	230x2,5÷3,2 9x8÷10	BIM HSS Fresata Milled	 	< 12 < 12 Ø < 250 Ø < 250
23810160 € 11,498	≈ S925VF EXTREME	150x1,8÷2,6 6x10÷14	BIM HSS Fresata Milled		< 10 < 10 Ø < 150 Ø < 150
23810170 € 21,183	≈ S1120CF EXTREME	230x2,5÷3,2 9x8÷10	BIM HSS Fresata Milled	 	< 12 < 12 Ø < 175 Ø < 175
23810175 € 10,621	≈ S936BEF	150x1,4÷1,8 6x14÷18	BIM HSS Fresata Milled		< 8 < 8 Ø < 100 Ø < 100
23810180 € 14,620	≈ S1136BEF	230x1,4÷1,8 9x14÷18	BIM HSS Fresata Milled	 	< 8 < 8 Ø < 175 Ø < 175
23810190 € 17,265	≈ S522BF	100x1,8 4x14	BIM HSS Fresata Milled	 	< 8

Confezione
Packaging
2 pcs.

Ideale con macchine
compatte cordless
Suitable for compact
cordless machines

LAME PER SEGHETTI A GATTUCCIO CON ATTACCO UNIVERSALE SABRE® PER LEGNO E METALLO

Reciprocating blades SABRE® universal type for wood and metals

23815

Legno e Metalli
Wood and Metals

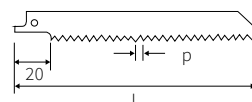
cod. € conf./pack	simile a similar to	Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23815100 € 12,345	≈ S1122HF	230x2,5 9x10	BIM HSS Fresata Milled		 < 175 < 175 < 12 < 12 < 12
23815110 € 9,464	≈ S711DF	150x4,3 6x6	BIM HSS Fresata Milled		 < 100 < 100 < 8 < 8 < 8 < 8 < 50 < 100 < 100 < 100
23815115 € 19,687	≈ S1411DF	300x4,3 12x6	BIM HSS Fresata Milled		 < 250 < 250 < 60 < 60 < 250 < 250
23815130 € 12,498	≈ S1122VFR NO VIBRATIONS	230x1,8÷2,6 9x10÷14	BIM HSS Fresata Milled		 < 175 < 175
23815150 € 17,265	≈ S511DF Ideale con macchine compatte cordless Suitable for compact cordless machines	100x4,3 4x6	BIM HSS Fresata Milled		 < 50 < 50 < 50 < 50 < 50

Confezione
Packaging
2 pcs.

LAME PER SEGHETTI A GATTUCCIO CON ATTACCO UNIVERSALE SABRE® PER LEGNO

Reciprocating blades SABRE® universal type for wood and plywood

23800



Legno dolce
Mild wood

cod. € conf./pack	simile a similar to	Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23800100 € 13,464	≈ S1617K	300x8,5 12x3	HCS Fresata Milled		< 250 < 250
23800105 € 14,606	≈ S2345X	200x2,5÷4,3 8x6÷10	HCS Fresata Milled		< 150 < 60 < 150
23800110 € 8,639	≈ S644D	150x4,3 6x6	HCS Fresata Milled		< 100 < 60 < 100
23800115 € 11,527	≈ S1531L	240x5 10x5	HCS Fresata Milled		< 190 < 190

Confezione
Packaging



2 pcs.

Codolo universale 1/2"
Universal shank 1/2"



AEG, ATLAS COPCO, BOSCH, DE WALT, ELU, FESTOOL, HITACHI, MAKITA, METABO, FEIN, FLEX, HILTI, MILWAUKEE, PORTER CABLE, RIDGID, ROTHEN BERGER, RYOBI SKIL,...(*)

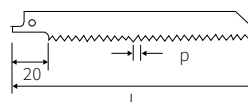
Tabella di comparazione Choosing chart

Codice Bosch Bosch code	Codice Krino Krino code	Codice Bosch Bosch code	Codice Krino Krino code
≈S1120CF	23810170	≈S2243HM	23820130
≈S1122BF	23810110	≈S2345X	23800105
≈S1122HF	23815100	≈S511DF	23815150
≈S1122VFR	23815130	≈S522BF	23810190
≈S1126CHF	23810150	≈S528DF	23820160
≈S1136BEF	23810180	≈S628DF	23820100
≈S123XF	23810120	≈S644D	23800110
≈S1411DF	23815115	≈S711DF	23815110
≈S1531L	23800115	≈S922EF	23810100
≈S1617K	23800100	≈S925VF	23810160
≈S2041HM	23820120	≈S936BEF	23810175

LAME PER SEGHETTI A GATTUCCIO CON ATTACCO UNIVERSALE SABRE® PER LEGNO

Reciprocating blades SABRE® universal type for wood and plywood

23820



Applicazioni speciali
Special applications

cod. € conf./pack	simile a similar to	Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23820100 € 11,688	≈ S628DF	150x4,3 6x6	BIM HSS Fresata Milled		 < 100
23820125 € 73,548	≈ S1543HM	Carbide 240x12,7 10x2	 Con inserti in MD Carbide tip	 	 < 150
23820160 € 17,265	≈ S528DF	100x4,3 4x6	BIM HSS Fresata Milled		 < 50

Confezione
Packaging



2 pcs.

cod. € conf./pack	simile a similar to	Lxp mm inches x tpi	acciaio steel	tipo di taglio finitura Type of cut-Finish	impieghi applications mm
23820120 € 41,246	≈ S2041HM	Carbide 400x8,5 16x3	 Con inserti in MD Carbide tip	 	 < 350 < 350 < 150
23820130 € 65,043	≈ S1531L EXTREME	Carbide 455x12,7 18x2	 Con inserti in MD Carbide tip	 	 < 365

Confezione
Packaging



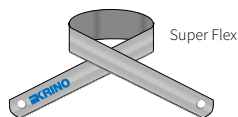
1 pc.

LAMA A MANO PER IL TAGLIO DI TUTTI I METALLI

Hack saw blades for metal cutting

23001

BIMETAL HSS-CO8% SUPERFLEX ~UNI 4000



Applicazioni
Applications



Inox
Stainless



Caratteristiche:

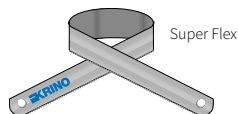
Lama di grandissima qualità con una durezza sui denti di circa 67 gradi Rockwell C, notevolmente superiore ad una lama tradizionale. Il corpo, più dolce, garantisce una perfetta flessibilità, pur mantenendo una buona rigidità torsionale, per un lavoro preciso e sicuro. Queste caratteristiche permettono un taglio ineguagliabile per dolcezza, rendimento, precisione e durata negli acciai inox, acciai duri legati, acciai da costruzione, leghe leggere, tutti i metalli, etc.

Features:

High performances, safe and smooth cut in stainless steel, high alloy steel, structural steel, light alloys, metals.

Cod.	dimensioni sizes	z n. denti T.p.i.	pcs.	€ cad/each
23001101	300x13x0,65 12"x1/2x0,025	18	100	2,662
23001100	300x13x0,65 12"x1/2x0,025	24	100	2,662
23001102	300x13x0,65 12"x1/2x0,025	32	100	2,662

HSS-BIMETAL ~UNI 4000



Cod.	dimensioni sizes	z n. denti T.p.i.	pcs.	€ cad/each
23001110	300x13x0,65 12"x1/2x0,025	18	100	2,292
23001120	300x13x0,65 12"x1/2x0,025	24	100	2,292
23001130	300x13x0,65 12"x1/2x0,025	32	100	2,292

Caratteristiche:

Lama superflessibile professionale per il taglio degli acciai duri, dolci, tutti i metalli.

Features:

Shatterproof blades for cutting iron, alloy steel, light alloys, any kind of metal.

HSS ~UNI 4000



Disponibile su richiesta
On demand

Cod.	dimensioni sizes	z n. denti T.p.i.	pcs.	€ cad/each
23001150	300x13x0,65 12"x1/2x0,025	24	100	2,218

Caratteristiche:

Lama professionale HSS a tempra integrale per un taglio preciso ad alto rendimento in tutti gli acciai duri, acciai in genere, leghe leggere, metalli.

Features:

All hard HSS hack saw blades.

HIGH CARBON FLEXIBLE ~UNI 4000



Confezione
Packaging



Cod.	dimensioni sizes	z n. denti T.p.i.	pcs.	€ cad/each
23001160	300x13x0,65 12"x1/2x0,025	24	100	0,521

Caratteristiche:

Lama in acciaio da utensile per il taglio occasionale e non professionale di materiali dolci.

Features:

Carbon flexible hack saw blades for occasional usage.

LAMA A MANO RIVESTITA IN GRANI DI CARBURO DI TUNGSTENO PER IL TAGLIO DEI MATERIALI PIÙ DURI ED ABRASIVI

Carbide grit-edge hack saw blades

23010



Confezione
Packaging



Art. 23011 Self
Disponibile su richiesta
On demand



Cod.	dimensioni sizes	pcs.	€ cad/each
23010060	300x13x0,65 12"x1/2x0,025	10	7,511

Caratteristiche:

Le particelle di carburo di tungsteno sono metallurgicamente e permanentemente legate al corpo in acciaio e permettono il taglio di materiali duri che una normale lama non può neanche scalfire.

Taglio piano e dolce, in entrambe le direzioni in: bulloni, catene, acciai duri trattati in barre o tubi, ceramica, marmo, granito, gres, fibra di cemento, fibra di vetro, cristallo.

Features:

Carbide grit particles permanently bounded to alloy steel, designed to cut materials that a standard won't even scratch. Straight cuts in hardened steel, such as chain and bolts, as well as ceramic tile, stranded cable, hydraulic hose and glass.

LAME IN FILO TONDO IN CARBURO DI TUNGSTENO PER TAGLI IN QUALSIASI DIREZIONE DI TUTTI I MATERIALI DIFFICILI DA LAVORARE

Carbide grit-edge rod saws

23005



Confezione
Packaging



Art. 23006 Self
Disponibile su richiesta
On demand



Cod.	dimensioni sizes	pcs.	€ cad/each
23005050	300 12"	10	7,015

Caratteristiche:

Le particelle di carburo di tungsteno sono permanentemente legate al corpo di acciaio e permettono un taglio piano o curvo in tutte le direzioni, anche nelle posizioni inaccessibili ad altri utensili.

Taglia in modo dolce e progressivo:

- Acciaio inox e acciai duri trattati, tutti gli acciai in genere.
- Bulloni, catene temperate, cavi di trazione
- Ceramica, marmo, granito, gres, fibra di cemento
- Vetro e cristallo

Sostituisce il tagliabulloni, le mole abrasive ed il taglio all'acetilene per molte operazioni!

Features:

Carbide grit particles permanently bounded to alloy steel, designed to cut materials that a standard won't even scratch. Straight cuts in hardened steel, such as chain and bolts, as well as ceramic tile, stranded cable, hydraulic hose and glass.

23012

Lama a mano per seghetti tipo "PUK®" Hack saw blades type "PUK®"



HCS

Confezione
Packaging




Art. 23012 Self
Disponibile su richiesta
On demand

Cod.	dimensioni sizes	z T.p.i.	pcs.	€ cad/each
23012100	150 mm 6"	24	10	0,941



UTENSILI PER MACCHINE AD OSCILLAZIONE

Tools for oscillating machines

	Pavimento Floor	Costruzioni Buildings	Automotive	Superfici piastrellate Tiled surfaces
Rif. Bosch				
ASZ32SC	Materiali flessibili Flexible materials	Materiali isolanti Insulating materials		
ATZ52SC	Residui di moquette e colla Residues of carpet and glue			Malta per piastrelle Tile mortar
AVZ93G	Legno dolce, legno duro, parquet, vernici e pitture. Softwood, hardwood, parquet, paints Compensato, truciolato, laminato, pannelli rivestiti in plastica, materiali plastici teneri Plywood, chipboard, laminate, plastic coated panels, soft plastics		Compositi Composites Profili in metalli non ferrosi, lamiere fino a 1 mm Profiles in non-ferrous metals, sheets up to 1 mm	
AIZ32BSPB	Legno duro, compensato, truciolato, parquet, laminato, pannelli rivestiti in plastica. Hardwood, plywood, chipboard, parquet, laminate, plastic coated panels Legno dolce, materiali plastici teneri Soft wood, soft plastic materials	Cartongesso, materiali stratificati Drywall, laminated materials	Compositi Composites	
AIZ32BSPC	Legno dolce. Softwood Legno duro, compensato, parquet, pannelli rivestiti in plastica, materiali plastici teneri Hardwood, plywood, parquet, plastic coated panels, soft plastics			
AII65BSPC	Legno dolce. Softwood Legno duro, compensato, parquet, pannelli rivestiti in plastica, materiali plastici teneri Hardwood, plywood, parquet, plastic coated panels, soft plastics			
AIZ32EPC	Legno dolce. Softwood Legno duro, compensato, parquet, pannelli rivestiti in plastica, materiali plastici teneri Hardwood, plywood, parquet, plastic coated panels, soft plastics			
ACZ85EB	Legno dolce. Softwood Legno duro, compensato, truciolato, parquet, laminato, pannelli rivestiti in plastica, materiali plastici teneri Hardwood, plywood, chipboard, parquet, laminate, plastic coated panels, soft plastics	Materiali stratificati Multilayer materials Cartongesso, pannelli in fibra e cemento Drywall, fiber and cement panels	Profili in metallo non ferrosi, chiodi e viti non temprati Non-ferrous metal profiles, nails and screws not hardened Compositi, Lamiere fino a 1 mm Composites, sheets up to 1 mm	Materiale sigillante Sealing material
AIZ20AB	Legno duro, compensato, truciolato, laminato, pannelli rivestiti in plastica Hardwood, plywood, chipboard, laminate, plastic coated panels Parquet, materiali teneri Parquet, soft materials	Cartongesso Drywall Materiali stratificati, pannelli in fibra e cemento Laminated materials, fiber and cement panels	Profili in metalli non ferrosi, lamiere fino a 1 mm, chiodi e viti non temprati Profiles in non-ferrous metals, sheets up to 1 mm, nails and screws not hardened Compositi Composites	
AIZ32APB	Legno duro, compensato, truciolato, laminato, pannelli rivestiti in plastica Hardwood, plywood, chipboard, laminate, plastic coated panels Parquet, materiali teneri Parquet, soft materials	Materiali stratificati Multilayer materials Cartongesso, pannelli in fibra e cemento Drywall, fiber and cement panels	Lamiere fino a 1 mm, chiodi e viti non temprati. Plates up to 1 mm, nails and screws not hardened Compositi, profili in metalli non ferrosi Composites, profiles in non-ferrous metals	
AII65APB	Legno dolce. Softwood Legno duro, compensato, truciolato, parquet, pannelli rivestiti in plastica, materiali plastici teneri Hardwood, plywood, chipboard, parquet, plastic-coated panels, soft plastics			
AIZ32AB	Legno dolce, legno duro, compensato, truciolato, parquet, pannelli rivestiti in plastica, materiali plastici teneri Softwood, hardwood, plywood, chipboard, parquet, plastic-coated panels, soft plastics	Cartongesso. Drywall Materiali stratificati, pannelli in fibra e cemento Laminated materials, fiber and cement panels	Profili in metalli non ferrosi, lamiere fino a 1 mm, chiodi e viti non temprati Profiles in non-ferrous metals, sheets up to 1 mm, nails and screws not hardened Compositi. Composites	
AIZ20AT	Legno dolce, legno duro, compensato, truciolato, parquet, pannelli rivestiti in plastica, materiali plastici teneri Softwood, hardwood, plywood, chipboard, parquet, plastic-coated panels, soft plastics	Cartongesso, pannelli in fibra e cemento Drywall, fiber and cement panels Materiali stratificati Multilayers	Compositi, profili in metalli non ferrosi, lamiere fino a 1 mm, chiodi e viti temprati e non. Composites, profiles in non-ferrous metals, sheets up to 1 mm, hardened and nails and screws	Calcestruzzo poroso Porous concrete
ACZ85RT3		Pannelli in fibra e cemento Fiber and cement panels Cartongesso Drywall	Compositi Composites	Malta per fughe (2-3 mm), malta per piastrelle. Mortar for joints (2-3 mm), grout for tiles Piastrelle da parete tenere. Wall tiles
AVZ70RT4	Residui di moquette e colla Residues of carpet and glue	Pannelli in fibra e cemento Fiber and cement panels Cartongesso Drywall	Compositi Composites	Malta per fughe (2-3 mm), malta per piastrelle. Mortar for joints (2-3 mm), grout for tiles Piastrelle da parete tenere. Wall tiles
AVZ78RT2		Pannelli in legno Wood panels		Malta per fughe (2-3 mm), malta per piastrelle. Mortar for joints (2-3 mm), grout for tiles Piastrelle da parete tenere. Wall tiles

In nero le applicazioni ottimali, in blu le applicazioni adatte.



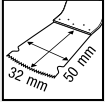







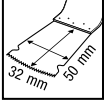






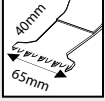






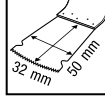
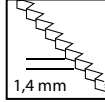


The recommended applications in black, the basic applications in blue color.

ACCESSORI
PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE
Accessories for multi-function oscillating tools

23405

ATTACCO STARLOCK®
Starlock® tools

Legno
Wood

cod.	rif. Bosch	materiale material	dimensioni dimensions	caratteristiche features	impieghi applications
  23405100 € 28,055	AIZ32BSPB	Bimetal Curved TECH	  14 tpi	  	 Legno duro, multistrato, plastica <i>Hard wood, plywood, plastic</i>
  23405105 € 21,676	AIZ32BSPC	HCS Curved TECH	  14 tpi	 	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). <i>Soft wood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).</i>
  23405110 € 27,039	AII65BSPC Flat Konvex	HCS Curved TECH	  14 tpi	 	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). <i>Soft wood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).</i>
  23405115 € 21,676	AIZ32EPC	HCS Curved TECH	  18 tpi		 Legno dolce, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). <i>Soft wood, plastic (eg center cut in massive wood for mounting an aeration grid).</i>

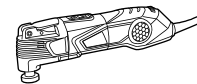
Confezione
Packaging



1 pc.

Tabella di comparazione
Choosing chart

Codice Bosch Bosch code	Codice Krino Krino code	Codice Bosch Bosch code	Codice Krino Krino code
ACZ85EB	23410100	AIZ32BSPB	23405100
ACZ85RT3	23415100	AIZ32BSPC	23405105
AII65APB	23410115	AIZ32EPC	23405115
AII65BSPC	23405110	ASZ32SC	23400100
AIZ20AB	23410105	ATZ52SC	23400105
AIZ20AT	23410125	AVZ70RT4	23415105
AIZ32AB	23410120	AVZ78RT2	23415115
AIZ32APB	23410110	AVZ93G	23400110



Per macchine multifunzione
To fit multipurpose machines

Starlock, Starlock Plus,
Starlock Max, Milwaukee, Fein,
Craftsman, Ridgid, Einhell,
Westfalia,
Chicago Electric, (*)...
Dremel, Dewalt, B&D,
Porter Cable, Rockwell, Worx,
Multi2pro, Mastercraft (*) c

ACCESSORI
PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE
Accessories for multi-function oscillating tools

23410

ATTACCO STARLOCK®
Starlock® tools

Legno, metallo, plastiche
Wood, metal, plastics


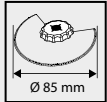





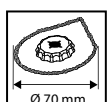
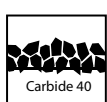




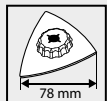



cod.	rif. Bosch	materiale material	dimensioni dimensions	caratteristiche features	impieghi applications
  23410100 € 36,922	ACZ85EB	BIM	 Ø 85 mm		 Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). Parquet, plywood s <20 mm, epoxy plastic. <i>Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).</i>
  23410105 € 16,483	AIZ20AB	Bimetal	 20 mm 30 mm  1,3 mm 19 tpi		 Legno con chiodi, legno duro, cartongesso, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). <i>Wood with nails, hardwood, plasterboard, epoxy plastic, insulating sandwiches (eg door frame cuts, paneled cuts, non-ferrous pipe cuts and small profiles).</i>
  23410110 € 28,055	AIZ32APB	Bimetal Curved TECH	 32 mm 50 mm  1,3 mm 19 tpi	 	 Legno con chiodi, legno duro, sandwich isolanti, alluminio, plastica epossidica (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). <i>Wood with nails, hardwood, insulating sandwich, aluminum, epoxy plastic (eg cuts of door frames, cuts in coated panels, pipe cuts in non-ferrous material and small profiles).</i>
  23410115 € 34,380	AII65APB Flat	Bimetal Curved TECH	 40mm 65mm  1,8 mm 14 tpi	 	 Legno con chiodi, legno duro, sandwich isolanti, plastica epossidica (es. tagli di telai di porte, aperture per un ripiano). <i>Wood with nails, hardwood, insulating sandwiches, epoxy plastic (eg cuts of door frames, openings for a shelf).</i>
  23410120 € 24,950	AIZ32AB	BIM	 32 mm 50 mm  1,3 mm 19 tpi		 Legno con chiodi, alluminio, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). <i>Wood with nails, aluminum, epoxy plastic, insulating sandwiches (eg cuts of door frames, cuts in coated panels, pipe cuts in non-ferrous material and small profiles).</i>
  23410125 € 37,751	AIZ20AT	TC/HM	 20 mm 40 mm  1,1 mm 23 tpi		 Legno con chiodi, metallo con HRC 40=50, acciaio inox, polimeri rinforzati con fibre. <i>Wood with nails, metal with HRC 40=50, stainless steel, polymers reinforced with fibers.</i>

ACCESSORI
PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE
Accessories for multi-function oscillating tools

23415

ATTACCO STARLOCK®
Starlock® tools

Materiali Abrasivi
Abrasives

cod.	rif. Bosch	materiale <i>material</i>	dimensioni <i>dimensions</i>	caratteristiche <i>features</i>	impieghi <i>applications</i>
 23415100 € 52,203	ACZ85RT3	TC/HM	 Ø 85 mm  Carbide 30	 	 Mattoni e cemento, piastrelle, plastica epossidica (es. rimuovere fughe tra piastrelle, tagliare cavità in piastrelle, pannelli di gesso o plastiche rinforzate). <i>Bricks and cement, tiles, epoxy plastics (eg removing joints between tiles, cutting tile cavities, gypsum boards or reinforced plastics).</i>
 23415105 € 73,301	AVZ70RT4	TC/HM	 Ø 70 mm  Carbide 40	 	 Mattoni e cemento, piastrelle, plastica epossidica (es. rimozione di colla per piastrelle e malta per fughe, rasatura e levigatura di superfici dure). <i>Bricks and cement, tiles, epoxy plastic (eg tile glue and grout removal, buffing and sanding of hard surfaces).</i>
 23415115 € 42,393	AVZ78RT2	TC/HM	 78 mm  Carbide 20		 Malta, residui di calcestruzzo, legno, materiali abrasivi (es. rimozione di malta o colla per piastrelle, rimozione di residui di colla per moquette). <i>Mortar, residues of concrete, wood, abrasive materials (eg removal of mortar or tile adhesive, removal of residues of glue for carpet).</i>

Confezione
Packaging



1 pc.

Kit per piastrelle
Tile set



Art. 23430100
€ 92,660

Composizione
Description
4 pcs

Art. 23415100
Art. 23400105
Art. 23415115
Art. 23410105

Kit per pavimenti e installazioni
Flooring set



Art. 23430101
€ 70,977

Composizione
Description
4 pcs

Art. 23410100
Art. 23400105
Art. 23405115
Art. 23405100

ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

Accessories for multi-function oscillating tools









23400

ATTACCO STARLOCK®

Starlock® tools

Multimateriale

Multitasking

cod.	rif. Bosch	materiale material	dimensioni dimensions	caratteristiche features	impieghi applications
  23400100 € 35,429	ASZ32SC	HCS Lama Multi knife	 		 Moquette, tappeti, carta catramata, prato sintetico, cartone, tutti i materiali teneri e abrasivi flessibili. <i>Carpet, tar paper, synthetic grass, cardboard, all soft materials and flexible abrasives.</i>
  23400105 € 16,483	ATZ52SC	HCS Raschietto Rigid scraper	 		 Moquette, malta, calcestruzzo, colla per piastrelle. <i>Carpet, mortar, concrete, tile adhesive</i>
  23400110 € 19,475	AVZ93G	Platello per carte abrasive Sanding Plate for delta sanding paper	 		Levigatura di superfici piane sui bordi, negli angoli o in settori difficilmente accessibili (es. levigare legno, pittura, vernice, pietra, disossidare metalli, asportare vernici). <i>Sanding flat surfaces on edges, corners or in sectors that are difficult to access (eg sanding wood, painting, varnish, stone, deoxidising metals, removing varnishes).</i>

Confezione
Packaging



1 pc.

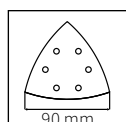
Carte abrasive per legno/vernici

Abrasive paper for wood/paint



Art. 23529026
€ conf./pack
7,409

20 pcs



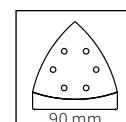
Carte abrasive per legno/metallo

Abrasive paper for wood/metal



Art. 23529027
€ conf./pack
7,844

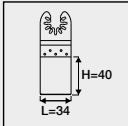

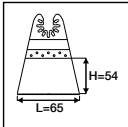

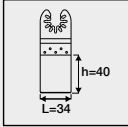

20 pcs



ACCESSORI PER UTENSILI MULTIFUNZIONE
AD OSCILLAZIONE UNIVERSAL QUICK CHANGE
Universal Quick Change accessories for multi-function oscillating tools

Legno
Wood

23505 **ATTACCO UNIVERSALE QUICK CHANGE**
Universal QUICK CHANGE

cod.	rif. Bosch	materiale material	dimensioni dimensions	impieghi applications
23505105 € 7,941	≈ AIZ32BSPC	HCS	 14 tpi	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). <i>Softwood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).</i>
23505110 € 8,684	≈ AII65BSPC	HCS	 14 tpi	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). <i>Softwood, multilayer, plastic (eg center-cut in massive wood for mounting an aeration grid).</i>
23505115 € 6,287	≈ AIZ32EPC	HCS	 19 tpi	 Legno dolce, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). <i>Softwood, plastic (eg cut from the center in massive wood to fit an aeration grid).</i>

Confezione
Packaging



1 pc.

**GUIDA ALL'USO DEGLI UTENSILI
PER MACCHINE AD OSCILLAZIONE**
Guide to the use of tools for oscillating machines



Si raccomanda l'uso delle lame per utensili multifunzione con una lieve pressione. La dentatura è appositamente studiata per fornire un'operazione di taglio senza sforzo e con ottima finitura. Nel caso si esercitasse una pressione eccessiva il prodotto potrebbe perdere prematuramente il filo tagliente oppure potrebbe surriscaldarsi eccessivamente, perdendo di conseguenza capacità tagliente.


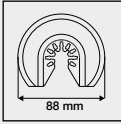


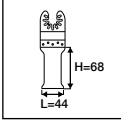
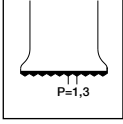


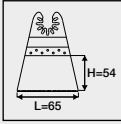
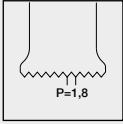


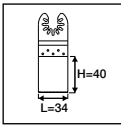
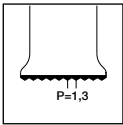
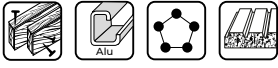

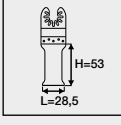
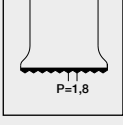

The use of oscillating tools with light pressure is recommended. The tooth set is specially designed to provide a cutting operation effortlessly and with excellent finish. If excessive pressure is exerted, the product may prematurely lose the cutting edge or it may overheat excessively, thus losing its cutting capacity.

ACCESSORI PER UTENSILI MULTIFUNZIONE
AD OSCILLAZIONE UNIVERSAL QUICK CHANGE
Universal Quick Change accessories for multi-function oscillating tools

23510

ATTACCO UNIVERSALE QUICK CHANGE
Universal QUICK CHANGE

Legno, metallo, plastiche
Wood, metal, plastics

cod.	rif. Bosch	materiale material	dimensioni dimensions	impieghi applications
 23510100 € 17,660	≈ ACZ85EB	BIM	 88 mm	 Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). <i>Parquet, multilayer s <20 mm, epoxy plastic. Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).</i>
 23510105 € 11,672	≈ AIZ20AB	BIM	 L=44 H=68  P=1,3 19 tpi	 Legno con chiodi, legno duro, cartongesso, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). <i>Wood with nails, hardwood, plasterboard, epoxy plastics, insulating sandwiches (eg cuts of door frames, cuts in coated panels, pipe cuts in non-ferrous material and small profiles).</i>
 23510115 € 8,231	≈ AII65APB	HCS	 L=65 H=54  P=1,8 14 tpi	 Legno dolce, plastica. <i>Soft wood, plastics.</i>
 23510120 € 10,629	≈ AIZ32AB	BIM	 L=34 H=40  P=1,3 19 tpi	 Legno con chiodi, alluminio, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). <i>Wood with nails, aluminum, epoxy plastic, insulating sandwiches (eg cuts of door frames, cuts in coated panels, pipe cuts in non-ferrous material and small profiles).</i>
 23510125 € 10,587	≈ AIZ32BSPB	BIM	 L=28,5 H=53  P=1,8 14 tpi	 Legno duro, multistrato, plastica. <i>Hardwood, multilayer, plastic.</i>

Confezione
Packaging




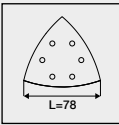


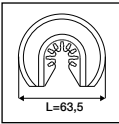

1 pc.

ACCESSORI PER UTENSILI MULTIFUNZIONE
AD OSCILLAZIONE UNIVERSAL QUICK CHANGE
Universal Quick Change accessories for multi-function oscillating tools

23515

ATTACCO UNIVERSALE QUICK CHANGE
Universal QUICK CHANGE


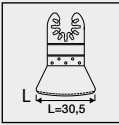


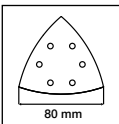
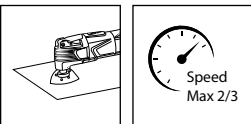
Materiali Abrasivi
Abrasives

cod.	rif. Bosch	materiale material	dimensioni dimensions	impieghi applications
 23515100 € 12,871	≈ ACZ85RT3	TC/HM	 L=78	 Mattoni e cemento, piastrelle, plastica epossidica (es. rimuovere fughe tra piastrelle, tagliare cavità in piastrelle, pannelli di gesso o plastiche rinforzate). <i>Bricks and cement, tiles, epoxy plastics (eg to remove joints between tiles, cut tile cavities, gypsum boards or reinforced plastics).</i>
 23515105 € 11,672	≈ AVZ70RT4	TC/HM	 L=63,5	 Mattoni e cemento, piastrelle, plastica epossidica (es. rimozione di colla per piastrelle e malta per fughe, rasatura e levigatura di superfici dure). <i>Bricks and cement, tiles, epoxy plastics (eg tile glue and grout removal, buffing and sanding of hard surfaces).</i>

23500





ATTACCO UNIVERSALE QUICK CHANGE
Universal QUICK CHANGE

Multimateriale
Multitasking

cod.	rif. Bosch	materiale material	dimensioni dimensions	impieghi applications
 23500105 € 5,873	≈ ATZ52SC	HCS Raschietto <i>Rigid scraper</i>	 L=30,5	 Moquette, malta, calcestruzzo, colla per piastrelle. <i>Carpet, mortar, concrete, tile adhesive.</i>
 23500110 € 6,742	≈ AVZ93G	Platorello per carte abrasive <i>Sanding Plate for delta sanding paper</i>	 80 mm	 Levigatura di superfici piane sui bordi, negli angoli o in settori difficilmente accessibili (es. levigare legno, pittura, vernice, pietra, dissodare metalli, asportare vernici). <i>Smoothing flat surfaces on edges, in corners or in sectors that are difficult to access (eg sanding wood, painting, varnish, stone, deoxidising metals, removing painting).</i>

23529

ATTACCO UNIVERSALE QUICK CHANGE
Universal QUICK CHANGE

 Art. 23529010 € 0,753 Adattatore per macchine Dremel® <i>Adapter to fit Dremel® machine</i>	
 Art. 23529015 € 0,753 Adattatore per macchine Bosch® (non Starlock®) <i>Adapter to fit Bosch® (non Starlock®) machine</i>	
 Art. 23529020 € 6,964 20pcs Carte abrasive per legno/vernici <i>Abrasive paper for wood/paint</i>	 80 mm
 Art. 23529025 € 7,586 20pcs Carte abrasive per legno/metallo <i>Abrasive paper for wood/metal</i>	 80 mm

Art. 23530100
€ 38,927

Composizione
Description
4 pcs

Art. 23505115
Art. 23500105
Art. 23510100
Art. 23500110



Art. 23530101
€ 53,593

Composizione
Description
7 pcs

Art. 23510115
Art. 23505115
Art. 23510120
Art. 23500105 Inox
Art. 23515105
Art. 23510100 HCS
Art. 23500110
























































UTENSILI PER EDILIZIA

CONSTRUCTION TOOLS

VISIONE D'INSIEME: PUNTE PER MURO CON CODOLO CILINDRICO

Overview: Masonry drills with Straight shank

APPLICAZIONE APPLICATION	DESCRIZIONE DESCRIPTION	IMMAGINE IMAGE	ATTACCO SHANK	N° TAGLIANTI N° OF CUTTING EDGES	N° ELICHE HELIX	TIPOLOGIA DI FORATURA TYPE OF DRILLING
SPECIALI GRÈS PORCELLANATO SPECIAL FOR PORCELAIN	GRESMASTER			MULTI	2	
	GRES+			2	2	
SPECIALI MATERIALI EDILI DURISSIMI SPECIAL FOR HARD CONSTRUCTION MATERIALES	Super Granit			2	2	
	Extreme hard cut			2	2	
MATERIALI EDILI CONSTRUCTION MATERIALES	MAX4			4	4	
	SDD UNIVERSALE			2	2	
	SUPERIOR			2	2	
	SUPERIOR		 HEX 1/4"	2	2	
	STANDARD PLUS STANDARD PLUS			2	2	
	STANDARD STANDARD			2	2	
UNIVERSALI, FORATUTTO UNIVERSAL, ALL PURPOSE	MULTI			2	2	  Metallo, Ceramica metals, ceramics
			 HEX 1/4"	2	2	  Metallo, Ceramica metals, ceramics
	Foratutto			2	2	  Metallo, Ceramica metals, ceramics
			 HEX 1/4"	2	2	  Metallo, Ceramica metals, ceramics
VETRO E CERAMICA GLASS AND CERAMIC	PER VETRO E CERAMICA PER VETRO E CERAMICA			2	0	

GRESMASTER

01 La praticità di una punta, la forza del metallo duro

The practicality of a drill bit, the power of carbide

La punta elicoidale GRESMASTER è caratterizzata dalla testa in MD integrale elettrosaldata che, grazie all'affilatura asimmetrica e multi-faccia, garantisce un'elevata efficacia e durata dell'utensile.

The GRESMASTER drill bit has an asymmetrical sharpening full MD head who guarantees high efficiency and durability of the drill bit.

02 Fori perfetti *Perfect holes*

Grazie al differente angolo di spoglia di ciascun tagliente, GRESMASTER assicura una più eterogenea lavorazione della superficie rifinando il foro che risulta perfettamente tondo e liscio.

Due to the different angle of each cutting edge, GRESMASTER provides a more heterogeneous surface processing. The result is a perfectly round and smooth hole.

03 Foratura a secco *Dry drilling*

GRESMASTER - a differenza di quanto avviene solitamente nel taglio di materiali duri - ha una maggiore efficacia quando utilizzata a secco. Utilizzando il corretto numero di giri, anche in assenza di refrigerazione, è l'ideale per professionisti che necessitano di utensili pratici e duraturi.

GRESMASTER - unlike what is usually done when cutting such hard materials - is more effective when used dry. Using the correct RPM, even in the absence of refrigeration, it is the perfect choice for professionals who need practical and durable tools.

04 Facile centraggio *Easy centering*

La foratura risulta semplice grazie al tagliente in MD che incide subito anche le superfici molto dure, evitando lo scivolamento laterale della punta.

Drilling is easy thanks to the MD cutting edge that immediately cuts even the hardest surface, avoiding to slip from on the surface..

05 Ideale per trapani portatili *Ideal for portable drills*

GRESMASTER è perfetta per l'utilizzo con trapani avvitatori in qualsiasi condizione e non necessita di particolari accorgimenti. Da utilizzare a sola rotazione (anche a velocità di rotazione ridotte) avendo cura di disattivare la percussione dell'elettrotroutensile.

GRESMASTER is perfect with cordless drills in any condition and does not require any special precautions. It should be used with rotation only (low rotation speeds) being sure to turn off the percussion function of the power tool.



03043

DIN 8039 ISO 5468
Milled

Speciale per grès porcellanato
Special for porcelain

 **MADE IN JAPAN**
Affilatura Speciale
Special sharpening



Confezione
Packaging



Ø	l	L	cod.	€ cad/each
4	85	50	030430400	18,100
5	85	50	030430500	19,500
6	100	65	030430600	20,500
8	125	75	030430800	25,700
10	150	90	030431000	30,400



Applicazioni
Applications

-  Grès porcellanato
Porcelain stoneware
-  Grès smaltato
Glazed stoneware
-  Grès
Stoneware
-  Pietra - Granito
Natural stones granit
-  Marmo
Marble
-  Piastrella standard
Standard tile



Art. 030440001
€ 76,000

3 pcs
Ø 6 - 8 - 10 mm



300x420x415

Art. 03044505
€ 1.413,000

54 pcs
Ø 4÷10 mm

Composizione
Description

Ø	pcs.
4	5
5	5
6	25
8	10
10	5
Set 6-8-10	4

Consigli di utilizzo

È l'utensile più facile e intuitivo da utilizzare, si utilizza a secco, è autocentrante.

L'unica fondamentale accortezza è utilizzare la punta a bassa velocità, indicativamente a 500 giri/min. (utilizzare la regolazione elettronica della velocità per arrivare a circa metà della velocità in prima marcia di un comune avvitatore, velocità poco più che al minimo per trapani a filo).

La punta va utilizzata esclusivamente a sola rotazione, senza l'utilizzo di percussione e avendo cura di raffreddare o lasciar raffreddare l'utensile tra un foro e l'altro.

Per prolungarne la durata, la punta va utilizzata per forare la sola piastrella (1): quando si entra in contatto con il muro, nel caso si necessiti ad esempio di installare dei tasselli di fissaggio (3), è bene proseguire il foro con una normale punta per calcestruzzo a rotopercussione (2).

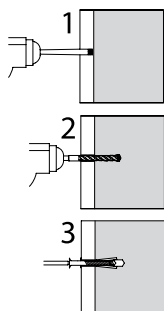
Recommendations for use

Is the easiest and most intuitive tool to use, it is used dry, and it is self-centering.

The only fundamental caution is to use the drill at low speed, approximately 500 rpm. (use the electronic speed control to get to about half the speed in first gear of an ordinary screwdriver, speed little more than idle for corded drills).

The drill should be used with rotation only, without the use of percussion and taking care to cool or allow the tool to cool between holes.

To prolong its life, the drill should be used to drill the tile only (1): when it comes into contact with the wall, in case you need to install anchor bolts, for example (3), it is a good idea to continue the hole with a regular rotopercussion concrete drill (2).



Diametro punta Drill bit diameter	4÷6	8÷10
Velocità giri/min. RPM speed	500	400



01 Placchetta in metallo duro con speciale affilatura

Carbide plate with special sharpening

Grazie alla speciale affilatura al diamante GRES+ è in grado di incidere in modo efficace anche i materiali più duri. Da utilizzare solo a rotazione, è ideale su grès porcellanato, ceramica, piastrelle e granito.

GRES+ is able to etch even the hardest material due to its special diamond sharpening. It should be used in rotation only, it is excellent on porcelain stoneware, ceramics, tiles and granite.

02 Facile centraggio

Easy centering

GRES+ garantisce un foro preciso e senza sbavature, incidendo da subito la superficie ed evitando lo scivolamento laterale della punta.

GRES+ guarantees a precise and burr-free hole, it immediately etches the surface avoiding to slip on the surface.

03 Ottima durata

Excellent duration

GRES+ è in grado di forare a secco, ma le migliori performance si ottengono ad umido, assicurando così un adeguato raffreddamento dell'utensile in fase di foratura.

GRES+ can do dry drilling, but the best performance is achieved when wet. This provides an adequate cooling of the tool while drilling.



Placchetta in metallo duro con speciale affilatura al diamante.

Placchetta in metallo duro con speciale affilatura al diamante.



PUNTA SPECIALE PER GRÈS PORCELLANATO

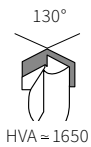
Special drill bit for porcelain



03042

DIN 8039 ISO 5468
Milled

Speciale per grès porcellanato
Special for porcelain



Confezione
Packaging



Ø	l	L	cod.	€ cad/each
4	40	80	030420400	4,800
5	45	90	030420500	5,100
6	55	100	030420600	5,450
8	65	120	030420800	6,700
10	65	120	030421000	9,400



Applicazioni

Applications

- Grès porcellanato
Porcelain stoneware
- Grès smaltato
Glazed stoneware
- Grès
Stoneware
- Pietra - Granito
Natural stones granit
- Marmo
Marble
- Piastrella standard
Standard tile



Art. 030410001
€ 20,000

3 pcs
Ø 6 - 8 - 10 mm



Art. 03041505
€ 699,000

105 pcs
Ø 4÷10 mm

Composizione
Description

Ø	pcs.
4	10
5	10
6	50
8	20
10	10
Set 6-8-10	5

Consigli di utilizzo

La punta va utilizzata esclusivamente a sola rotazione, senza l'utilizzo di percussione.

Si utilizza come una normale punta per muro, è autocentrante e si utilizza sia a secco che a umido. Da utilizzare a bassa velocità, indicativamente a 500 giri/min.

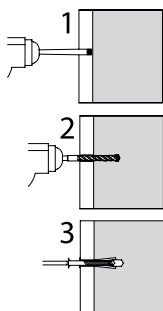
Per prolungarne la durata, la punta va utilizzata per forare la sola piastrella (1): quando si entra in contatto con il muro, nel caso si necessiti ad esempio di installare dei tasselli di fissaggio (3), è bene proseguire il foro con una normale punta per calcestruzzo a rotopercussione (2).

Recommendations for use

The drill bit is to be used by rotation only, without the use of percussion.

It is used as a regular wall bit, is self-centering and can be used both dry and wet. It should be used at low speed, approximately 500 rpm.

To prolong its life, the bit should be used to drill the tile only (1): when it comes into contact with the wall, in case you need, for example, to install anchor plugs (3), it is a good idea to continue the hole with a normal rotopercussion concrete bit (2).



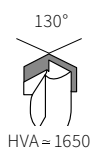
Diametro punta Drill bit diameter	4÷6	8÷10
Velocità giri/min. RPM speed	500	400

PUNTE A ROTOPERCUSSIONE "SUPER GRANIT"
PER FORARE LE PIETRE PIÙ DURE E I MATERIALI EDILI DURISSIMI
Rotary percussion drill bits "Super Granit" for extreme hard stones and building materials

03110

DIN 8039 ISO 5468
Milled

Speciale materiali edili durissimi
Special for hard construction materials



Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	30	60	1	031100300	7,339
4	5/32	3,8	40	75	1	031100400	7,339
5	3/16	4,5	50	75	1	031100500	7,521
6	15/64	5,5	60	100	1	031100600	7,792
7	9/32	6,5	60	100	1	031100700	9,188
8	5/16	7,5	80	120	1	031100800	9,369
9	23/64	8	80	120	1	031100900	11,025
10	25/64	9	80	120	1	031101000	12,478
11	7/16	10	90	150	1	031101100	14,973
12	15/32	10	90	150	1	031101200	16,686
13	1/2	10	90	150	1	031101300	23,185
14	9/16	10	90	150	1	031101400	26,622
15	19/32	10	100	160	1	031101500	32,033
16	5/8	12	100	160	1	031101600	34,358
18	23/32	12	100	160	1	031101800	40,485
20	25/32	12	100	160	1	031102000	53,619

Applicazioni
Applications



Granito
Granite



Calcestruzzo
Concrete



Pietre
Stones



Art. 03111 Self
Disponibile su richiesta
On demand

03112

L = 150 - 200 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
5	3/16	4,5	90	150	1	031121500500	11,797
5,5	7/32	4,5	90	150	1	031121500550	13,019
6,5	1/4	5,5	90	150	1	031121500650	15,799
8	5/16	7,5	90	150	1	031121500800	15,799
10	3/8	9	200	250	1	031122501000	19,317
14	9/16	12	200	250	1	031122501400	29,609



Art. 03116202
€ 45,126

4 pcs
Ø 5 - 6 - 8 - 10 mm



Taglio del granito **a rotopercolazione** con grandi rendimenti, taglio delle pietre naturali e artificiali, calcestruzzo e materiali da edilizia vari, fino al 7° scala MOHS.

Rotary percussion cuts in granit, natural stone, concrete, masonry, up to 7° MOHS.

Placchetta affilata con diamante. Corpo rettificato con scarico ad "U", in acciaio legato HRC 40÷50. Saldobrasatura a 1100° C.

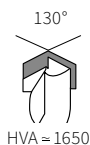
Large milled flute type "U" for an efficient dust removal. Diamond sharpened. Body in alloy steel with HRC 40÷50. Brazing temperature at 1100° C

**PUNTE "EXTREME HARD CUT" ALTAMENTE PROFESSIONALI
PER FORARE A SOLA ROTAZIONE TUTTI I MATERIALI EDILI DURISSIMI**
Professional masonry drills "Extreme Hard Cut" for rotary cutting of hard building materials

03100

DIN 8039 ISO 5468
Milled

Speciale materiali edili durissimi
Special for hard construction materials



Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	30	70	1	031000300	4,250
4	5/32	3,8	40	75	1	031000400	4,616
5	3/16	4,5	50	85	1	031000500	4,616
6	15/64	5,5	60	100	1	031000600	4,706
8	5/16	7,5	80	120	1	031000800	5,803
10	3/8	9	80	120	1	031001000	8,150
12	15/32	10	90	150	1	031001200	12,622
14	9/16	10	200	250	1	031001400	18,619



Taglio preciso e senza sbavature **a sola rotazione** nel marmo, pietre, granito, ceramica, tutti i materiali da edilizia durissimi (sino a 7 gradi scala MOHS).

*Precise **rotary cut** in hard building materials (marble, natural stones, ceramic, granite) up to 7° MOHS.*

Applicazioni
Applications



Pietre naturali e artificiali
Natural and artificial stones



Ceramica
Ceramics



Piastrelle, mattoni durissimi
Tiles, hard burnt brick



Pietra - Granito
Natural stones granite

Corpo fresato con scanalatura ad "U". Saldobrasatura a 1120° C. Placchetta in metallo duro ISO Euronorm resistente a forti abrasioni, affilata con diamante ed autocentrante.

Large milled flute type "U", with self-centering positive clearance. Brazing temperature over 1120° C. Special carbide grain tip.



Art. 03101 Self
Disponibile su richiesta
On demand



Art. 03105202
€ 26,088

4 pcs
Ø 5 - 6 - 8 - 10 mm

390x150x225

PUNTE ROTOBATTENTI "MAX 4" A 4 TAGLIENTI E 4 ELICHE PER FORARE AD ALTO RENDIMENTO TUTTI I MATERIALI EDILI

Rotary percussion drill bits "max 4" with 4 cutting edges and 4 flutes for cutting concrete and building materials

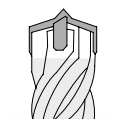


03072

DIN 8039 ISO 5468
Milled

4 taglienti - Alto rendimento - Per calcestruzzo
4 cutting edges - High performance - For concrete

MAX4



HVA = 1650



4 taglienti
4 cutting edges

4 spirali
4 spirals



Confezione
Packaging



Ø mm	d	l	L	pcs. pcs.	cod.	€ cad/each
4	3,8	40	75	1	030720400	3,005
5	4,8	40	85	1	030720500	3,005
6	5,4	57	100	1	030720600	3,174
7	6,3	55	100	1	030720700	3,484
8	7	70	120	1	030720800	3,581
9	8	70	120	1	030720900	3,927
10	8,5	70	120	1	030721000	4,434
11	10	90	150	1	030721100	5,232
12	10	90	150	1	030721200	5,516
13	10	90	150	1	030721300	6,969
14	10	90	150	1	030721400	8,229
15	10	90	150	1	030721500	10,453
16	10	90	150	1	030721600	11,614



4 taglienti

Placchetta integrale a 4 taglienti in metallo duro resistente alla forte percussione, brasatura con lega saldante a 1100°C.

Cutting edges

One-piece 4 cutting edges carbide tip resisting to percussion. Brazing temperature at 1000°C.



4 eliche

Corpo fresato con scanalatura a "L" ad alta evacuazione.

4-flutes

Large milled flute type "L" for a faster dust remove.



+30%PRESTAZIONI

FORO PERFETTAMENTE CIRCOLARE
rispetto a una comune punta a 2 taglienti

+30% PERFORMANCES

Circular hole compared to a 2 cutting edges drill

Applicazioni

Applications



Muro
Masonry



Calcestruzzo
Concrete



Pietre
Stones

La placchetta in metallo duro monoblocco a 4 taglienti garantisce una grande capacità di taglio e un'ottima precisione di foratura. L'asportazione dei detriti è assicurata dalla combinazione delle 4 eliche e della geometria a "L" dello scarico. Grande rendimento di taglio in tutti i materiali edili, cemento, granito, pietre in genere, mattoni.

One-piece 4 cutting edges carbide tip assures great drilling performances and perfect circular holes. Faster dust removal due to the 4 "L" type flutes. Drilling in every building material, concrete, granite, stones.



Art. 03073201
€ 12,457

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03073202
€ 18,180

6 pcs
Ø 4 - 5 - 6
8 - 9 - 10 mm



Art. 03073203
€ 21,547

7 pcs
Ø 4 - 5 - 6 - 8
9 - 10 - 12 mm



Art. 03073504
€ 551,393

134 pcs
Ø 4-16 mm

Composizione
Description

Ø	pcs.
4	7
5	14
6	28
7	7
8	28
9	10
10	15
12	10
13	5
14	5
16	5

370x380x570

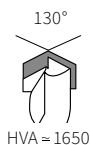
PUNTA UNIVERSALE SDD PER IL TAGLIO DI TUTTI I MATERIALI

Univeral SDD drill

03069

DIN 8039 ISO 5468

SDD - UNIVERSALE
SDD- Universal



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
3	2,8	20	60	10	030690600300	3,209
4	3,8	35	75	10	030690750400	3,209
5	4,5	45	85	10	030690850500	3,264
6	5,5	60	100	10	030691000600	3,317
6	5,5	210	250	1	030692500600	9,898
6	5,5	360	400	1	030694000600	14,927
7	6,4	60	100	10	030691000700	3,477
8	7,2	80	120	10	030691200800	3,692
8	7,2	210	250	1	030692500800	10,647
8	7,2	360	400	1	030694000800	15,247
9	8,3	80	120	10	030691200900	4,173
10	9,2	80	120	10	030691201000	4,956
10	9,2	210	250	1	030692501000	11,503
10	9,2	360	400	1	030694001000	15,996
10	9,2	560	600	1	030696001000	17,067
11	9,9	110	150	6	030691501100	7,715
12	10	110	150	6	030691501200	8,507
12	10	210	250	1	030692501200	15,996
12	10	360	400	1	030694001200	19,206
12	10	560	600	1	030696001200	25,734
13	12	110	150	6	030691501300	9,736
14	12,7	110	150	6	030691501400	10,647
14	12,7	210	250	1	030692501400	17,602
14	12,7	360	400	1	030694001400	21,347
15	13	110	150	6	030691501500	11,342
16	13	110	150	6	030691501600	12,573
16	13	210	250	1	030692501600	20,277
16	13	360	400	1	030694001600	24,556
16	13	560	600	1	030696001600	26,696
18	13	120	160	1	030691601800	14,927
20	13	120	160	1	030691602000	18,672

Applicazioni Applications



Pietre naturali e artificiali
Natural and artificial stones



Ceramica
Ceramics



Metalli
Metals



Piastrelle, mattoni durissimi
Tiles, hard burnt brick



Pietra - Granito
Natural stones granit



Taglio preciso **a rotazione** in metalli, ceramica e in tutti i materiali da edilizia fragili e **a rotopercolazione** in marmo, granito, pietre.

Precise cut, **rotation only**, into metals, ceramic and fragile building materials.
Rotary percussion cut into marble, granit, stones.



Art. 03068202
€ 20,000

4 pcs
Ø 5x85 - 6x100
8x120 - 10x120 mm

Art. 03068204
€ 29,917

7 pcs
Ø 3x60 - 4x75
5x85 - 6x100
8x120 - 9x120
10x120 mm

Art. 03068205
€ 42,000

8 pcs
Ø 3x60 - 4x75
5x85 - 6x100
8x120 - 9x120
10x120 - 12x150 mm



Art. 03068505
€ 427,664

Composizione
Description

Ø	pcs.
3x60	5
4x75	5
5x85	10
6x100	20
8x120	20
10x120	14
12x150	14

PUNTE "SUPERIOR" A ROTOPERCUSSIONE PER EDILIZIA AD ELEVATO RENDIMENTO

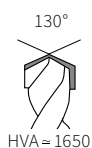
High performance construction drill bits "Superior"

03060

DIN 8039 ISO 5468

Per muratura e calcestruzzo

For masonry and concrete



Confezione
Packaging



HVA = 1650

Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



Pietra
Natural Stones



Art. 03061 Self
Disponibile su richiesta
On demand

Corpo fresato con scanalatura ad "L" ad alta evacuazione. Placchetta M.D. resistente alla forte percussione, brasatura con lega saldante a 1100° C.

Brazing temperature at 1100° C. Large milled flute type "L" for a faster dust removal.

Per forare a forte percussione il muro, il cemento, il calcestruzzo, marmo, pietre. Uso intensivo ed alto rendimento.

For use, with rotary percussion, in masonry, concrete, natural stones. High performances in intensive uses.



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	40	70	10	030600300	2,533
4	5/32	3,8	40	75	10	030600400	2,533
5	3/16	4,5	40	85	10	030600500	2,564
5,5	7/32	4,8	57	100	10	030600550	2,642
6	15/64	5,5	57	100	10	030600600	2,642
6,5	1/4	6	57	100	10	030600650	2,928
7	9/32	6,5	55	100	10	030600700	2,822
8x107	5/16	7,5	55	107	10	030600800C	3,037
8	5/16	7,5	70	120	10	030600800	3,037
9	11/32	8	70	120	6	030600900	3,404
10	3/8	9	70	120	6	030601000	3,949
11	7/16	10	90	150	6	030601100	5,837
12x120	15/32	10	90	120	6	030601200C	6,355
12	15/32	10	90	150	6	030601200	6,355
13	1/2	10	90	150	6	030601300	7,973
14	9/16	10	90	150	6	030601400	8,536
15	19/32	10	90	150	6	030601500	10,094
16	5/8	10	90	150	6	030601600	10,094
18	23/32	13	100	160	1	030601800	12,031
20	25/32	13	100	160	1	030602000	14,742

03063

L = 150 - 200 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
5	3/16	4,7	90	150	1	030630500	3,972
6	15/64	5,5	90	150	1	030630600	4,581
8	5/16	7,5	150	200	1	030630800	5,652
10	3/8	9	150	200	1	030631000	7,040
12	15/32	10	150	200	1	030631200	8,849
14	9/16	10	150	200	1	030631400	10,756
16	5/8	10	150	200	1	030631600	12,938
18	23/32	10	150	200	1	030631800	15,871
20	25/32	13	150	200	1	030632000	18,547

03065

L = 400 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
8	5/16	7,5	320	400	1	030650800	8,968
10	3/8	9,5	320	400	1	030651000	10,916
12	15/32	10	320	400	1	030651200	13,335
14	9/16	10	320	400	1	030651400	15,505
16	5/8	10	320	400	1	030651600	19,729
18	23/32	10	320	400	1	030651800	25,067
20	25/32	13	320	400	1	030652000	31,990
22	7/8	13	320	400	1	030652200	39,356
24	15/16	13	320	400	1	030652400	41,561

03067

L = 600 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
8	5/16	7,5	500	600	1	030670800	10,874
10	3/8	9,5	500	600	1	030671000	13,666
12	15/32	10	500	600	1	030671200	16,341
14	9/16	10	500	600	1	030671400	21,685
16	5/8	10	500	600	1	030671600	23,438
18	23/32	10	500	600	1	030671800	32,224
20	25/32	13	500	600	1	030672000	38,222
22	7/8	13	500	600	1	030672200	44,822
24	15/16	13	500	600	1	030672400	52,087

ASSORTIMENTI PUNTE "SUPERIOR" A ROTOPERCUSSIONE PER EDILIZIA AD ELEVATO RENDIMENTO

High performance construction drill bits "Superior" sets



Art. 03070201
€ 11,408

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03070202
€ 17,449

7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03070203
€ 21,255

8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm



370x380x570

Art. 03070504
€ 645,837

141 pcs
Ø 3-16 mm

Composizione
Description

Ø	pcs.
3	7
4	7
5	14
6	28
7	7
8	28
9	10
10	15
12	10
13	5
14	5
15	5

Art. 03070503
€ 789,995

142 pcs
Ø 3-18 mm

Composizione
Description

Ø	pcs.
3	9
4	9
5	9
6	27
7	9
8	18
9	6
10	12
12	6
13	6
14	6
16	6
8x400	6
10x400	3
12x400	3
16x400	2
18x400	2

PUNTE "SUPERIOR" A ROTOPERCUSSIONE PER EDILIZIA CON ATTACCO HEX 1/4"

Professional quality masonry drills "Superior" 1/4" q.c. shank

03059

ATTACCO 1/4" HEX FORM E

Per muratura e calcestruzzo
For masonry and concrete

1/4 HEX FORM E



Confezione
Packaging



Ø mm	d Hex	l	L	pcs.	cod.	€ cad/each
3	1/4	33	75	10	030590300	3,334
4	1/4	35	83	10	030590400	3,484
5	1/4	46	93	10	030590500	3,839
6	1/4	56	97	10	030590600	4,193
7	1/4	48	97	10	030590700	4,344
8	1/4	70	120	10	030590800	4,619
9	1/4	70	120	10	030590900	4,965
10	1/4	70	120	10	030591000	5,143



Art. 03057700
€ 22,341

5 pcs
Ø 4 - 5 - 6 - 8 - 10 mm

PUNTE CILINDRICHE PER MURO STANDARD PLUS

Quality rotary percussion masonry drills

03052

DIN 8039 ISO 5468

Per muratura

For masonry



Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	40	70	10	030520300	1,800
4	5/32	3,8	40	75	10	030520400	1,800
5	3/16	4,5	40	85	10	030520500	1,838
5,5	7/32	4,8	55	100	10	030520550	1,970
6	15/64	5,5	55	100	10	030520600	1,970
6,5	1/4	6	70	120	10	030520650	2,176
7	9/32	6,5	70	120	10	030520700	2,268
8x107	5/16	7,5	70	107	10	030520800C	2,764
8	5/16	7,5	70	120	10	030520800	2,764
9	11/32	8	90	120	10	030520900	2,986
10	3/8	9	90	120	10	030521000	3,534
11	7/16	10	90	150	5	030521100	4,368
12x120	15/32	10	90	120	5	030521200C	4,368
12	15/32	10	90	150	5	030521200	4,368
13	1/2	10	90	150	5	030521300	4,889
14	9/16	10	90	150	5	030521400	5,411
15	19/32	10	90	150	5	030521500	6,468
16	5/8	10	90	150	5	030521600	7,184
18	23/32	10	100	160	5	030521800	7,432
20	25/32	13	100	160	5	030522000	9,177

03053

L = 150 - 200 mm

Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



Pietra
Natural Stones

Corpo con placchetta di alta qualità.

Flute with high resistant carbide tips.

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
5	3/16	4,7	90	150	5	030530500	3,862
5,5	7/32	4,8	90	150	5	030530550	3,982
6	15/64	5,5	90	200	5	030530600	4,824
8	5/16	7,5	150	200	5	030530800	5,516
10	3/8	9	150	200	5	030531000	6,390
12	15/32	10	150	200	5	030531200	7,366
14	9/16	10	150	200	5	030531400	9,100
16	5/8	10	150	200	5	030531600	10,231
18	23/32	10	150	200	5	030531800	11,525
20	25/32	13	150	200	5	030532000	12,642

03054

L = 400 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
8	5/16	7,5	320	400	1	030540800	8,266
10	3/8	9,5	320	400	1	030541000	11,187
12	15/32	10	320	400	1	030541200	13,298
14	9/16	10	320	400	1	030541400	13,938
16	5/8	10	320	400	1	030541600	24,786
18	23/32	10	320	400	1	030541800	31,762
20	25/32	13	320	400	1	030542000	38,724
22	7/8	13	320	400	1	030542200	40,873
24	15/16	13	320	400	1	030542400	44,100

03051

L = 600 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
8	5/16	7,5	500	600	1	030510800	10,466
10	3/8	9,5	500	600	1	030511000	13,524
12	15/32	10	500	600	1	030511200	15,170
14	9/16	10	500	600	1	030511400	17,170
16	5/8	10	500	600	1	030511600	26,644
18	23/32	10	500	600	1	030511800	34,692
20	25/32	13	500	600	1	030512000	40,643
22	7/8	13	500	600	1	030512200	45,823
24	15/16	13	500	600	1	030512400	54,044



ASSORTIMENTI PUNTE CILINDRICHE PER MURO STANDARD PLUS

Quality rotary percussion masonry drills sets



Art. 03057202
€ 11,982

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03057204
€ 18,331

7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03057205
€ 21,722

8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm



Art. 03057503
€ 768,563

177 pcs
Ø 3÷16 mm

Composizione
Description

Ø	pcs.
3	10
4	10
5	10
6	45
7	10
8	20
9	10
10	20
12	10
14	5
16	5
8x400	5
10x400	6
12x400	6
14x400	5

370x380x570

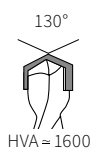
PUNTE CILINDRICHE PER MURO, QUALITÀ STANDARD

Carbide tipped masonry drills

03001

DIN 8039 ISO 5468

Per muratura
For masonry



Confezione
Packaging



Applicazioni
Applications



Muro
Masonry



Art. 03002 Self
Disponibile su richiesta
On demand

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	40	70	10	030010300	0,740
3,5	9/64	3,2	40	75	10	030010350	0,835
4	5/32	3,2	40	75	10	030010400	0,782
4,5	11/64	3,8	40	85	10	030010450	0,855
5	3/16	3,8	40	85	10	030010500	0,782
5,5	7/32	4,7	50	85	10	030010550	0,939
6	15/64	4,7	55	100	10	030010600	0,855
6,5	1/4	5,4	55	100	10	030010650	1,066
7	9/32	5,4	55	100	10	030010700	0,961
7,5	19/64	5,8	70	100	10	030010750	1,172
8	5/16	6	70	120	10	030010800	1,150
8,5	21/64	7,1	70	120	10	030010850	1,395
9	11/32	7,1	70	120	10	030010900	1,268
9,5	3/8	8	70	120	10	030010950	1,531
10	3/8	8	70	120	10	030011000	1,458
11	7/16	10	90	150	5	030011100	2,270
12	15/32	10	90	150	5	030011200	2,270
13	1/2	10	90	150	5	030011300	3,052
14	9/16	10	90	150	5	030011400	3,137
15	19/32	10	90	150	5	030011500	3,929
16	5/8	10	90	150	5	030011600	3,929
18	23/32	10	100	160	5	030011800	4,796
20	25/32	13	100	160	5	030012000	5,555
22	7/8	13	100	160	1	030012200	7,699
24	15/16	13	100	160	1	030012400	9,124
25	1"	13	100	160	1	030012500	11,205
26	1. 1/32	13	100	160	1	030012600	16,116
28	1. 1/8	13	100	160	1	030012800	16,791
30	1. 3/16	13	100	160	1	030013000	18,969
32	1. 1/4	13	100	160	1	030013200	20,996

03005

L = 200 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
6	15/64	4,7	115	200	5	030050600	2,612
8	5/16	6	115	200	5	030050800	2,894
9	11/32	7,1	115	200	5	030050900	3,648
10	3/8	8	115	200	5	030051000	3,648
12	15/32	10	120	200	5	030051200	4,469
13	1/2	10	120	200	5	030051300	4,999
14	9/16	10	120	200	5	030051400	5,518
16	5/8	10	120	200	5	030051600	6,855
18	23/32	10	120	200	5	030051800	8,788
20	25/32	13	120	200	5	030052000	10,438



Art. 03021 Self
Disponibile su richiesta
On demand

03009

L = 300 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
6	15/64	4,7	180	300	5	030090600	3,152
8	5/16	6	180	300	5	030090800	3,563
9	11/32	7,1	180	300	5	030090900	4,556
10	3/8	8	180	300	5	030091000	4,556
12	15/32	10	180	300	5	030091200	5,237
13	1/2	10	180	300	5	030091300	6,326
14	9/16	10	180	300	5	030091400	6,725
16	5/8	10	180	300	5	030091600	8,582
18	23/32	10	180	300	5	030091800	10,979
20	25/32	13	180	300	5	030092000	13,053



Art. 03024 Self
Disponibile su richiesta
On demand




PUNTE CILINDRICHE PER MURO, QUALITÀ STANDARD

Carbide tipped masonry drills

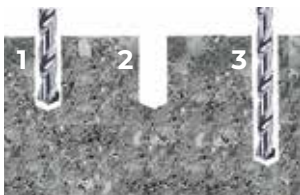
03011

L = 400 mm

Ø mm	pollici inches	d	l	L	 pcs.	cod.	€ cad/each
6	15/64	5	240	400	5	030110600	3,488
8	5/16	7	240	400	5	030110800	4,047
9	11/32	8	240	400	5	030110900	5,549
10	3/8	9	240	400	5	030111000	5,549
11	7/16	10	240	400	5	030111100	5,948
12	15/32	10	240	400	5	030111200	5,948
13	1/2	10	240	400	5	030111300	7,092
14	9/16	10	240	400	5	030111400	7,092
15	19/32	10	240	400	5	030111500	9,025
16	5/8	10	240	400	5	030111600	9,025
18	23/32	10	240	400	5	030111800	11,553
20	25/32	13	240	400	5	030112000	14,769
22	7/8	13	240	400	1	030112200	20,728
24	15/16	13	250	400	1	030112400	23,998
25	1"	13	250	400	1	030112500	27,205
26	1/32	13	250	400	1	030112600	30,422
28	1/8	13	250	400	1	030112800	32,646
30	3/16	13	250	400	1	030113000	37,050
32	1/4	13	250	400	1	030113200	42,492



Art. 03022 Self
Disponibile su richiesta
On demand



Si consiglia di eseguire un preforo di 100÷150 mm dello stesso diametro.


Use same size pilot drill for 100÷150 mm depth.



Art. 03023 Self
Disponibile su richiesta
On demand

03015

L = 600 mm

Ø mm	pollici inches	d	l	L	 pcs.	cod.	€ cad/each
6	15/64	5	370	600	5	030150600	6,186
8	5/16	7	370	600	5	030150800	6,887
9	11/32	8	370	600	5	030150900	8,582
10	3/8	9	370	600	5	030151000	8,993
11	7/16	10	370	600	5	030151100	9,285
12	15/32	10	370	600	5	030151200	9,866
13	1/2	10	370	600	5	030151300	11,553
14	9/16	10	370	600	5	030151400	12,307
15	19/32	10	370	600	5	030151500	15,568
16	5/8	10	370	600	5	030151600	17,144
18	23/32	10	370	600	5	030151800	19,906
20	25/32	13	370	600	5	030152000	23,372
22	7/8	13	370	600	1	030152200	34,211
24	15/16	13	370	600	1	030152400	42,253
25	1"	13	370	600	1	030152500	46,659
26	1/32	13	370	600	1	030152600	48,526
28	1/8	13	370	600	1	030152800	54,960
30	3/16	13	370	600	1	030153000	63,273
35	3/8	13	370	600	1	030153500	79,952



Art. 03050101
€ 18,399

15 pcs
Ø 3-10 x 0,5 mm



Art. 03050203
€ 7,240

5 pcs
Ø 4 - 5 - 6 - 8 - 10 mm



Art. 03050204
€ 10,280

7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03050205
€ 12,064

8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm



Art. 03050503
€ 799,593

281 pcs
Ø 3÷20 mm

Composizione
Description

Ø	pcs.	Ø	pcs.
3	20	8x400	10
4	20	10x400	10
5	20	12x400	10
6	60	14x400	10
7	20	16x400	5
8	30	18x400	5
9	10	20x400	3
10	20		
12	10		
14	10		
16	5		
18	3		

370x380x570



**PUNTA "FORATUTTO" UNIVERSALE MULTIK AD ALTE PRESTAZIONI
PER IL TAGLIO DI TUTTI I MATERIALI**
High performance multi-purpose drill bit



03076

DIN 8039 ISO 5468

Universali - Foratutto
Universal - Multipurpose



Applicazioni
Applications



Pietre naturali e artificiali
Natural and artificial stones



Ceramica
Ceramics



Metalli
Metals



Piastrelle, mattoni durissimi
Tiles, hard burnt brick



Pietra - Granito
Natural stones granit



Legno
Wood



Plastica
Plastic



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
3	2,8	40	70	1	030760300070	5,052
4	3,8	40	75	1	030760400075	5,083
5	4,5	50	85	1	030760500085	5,211
5	4,5	90	150	1	030760500150	7,480
5,5	4,5	50	85	1	030760550085	5,400
6	5,5	60	100	1	030760600100	5,483
6	5,5	90	150	1	030760600150	8,353
6	5,5	200	250	1	030760600250	10,216
6,5	5,5	60	100	1	030760650100	6,425
7	6,5	60	100	1	030760700100	6,947
8	7,2	80	120	1	030760800120	7,471
8	7,2	90	150	1	030760800150	9,160
8	7,2	200	250	1	030760800250	10,483
8	7,2	350	400	1	030760800400	41,522
9	8	80	120	1	030760900120	8,274
10	9	80	120	1	030761000120	8,772
10	9	90	150	1	030761000150	11,029
10	9	200	250	1	030761000250	13,701
10	9	350	400	1	030761000400	44,935
11	10	90	150	1	030761100150	12,143
12	10	90	150	1	030761200150	12,400
12	10	200	250	1	030761200250	15,874
12	10	350	400	1	030761200400	47,651
14	12,3	150	200	1	030761400200	17,175
14	12,3	200	250	1	030761400250	17,728
16	14	150	200	1	030761600200	28,078



Taglio preciso e senza sbavature **a rotazione** in metalli, ceramica e in tutti i materiali da edilizia durissimi (sino 8° Mohs) e **a rotopercussione** in marmo, granito, pietre.

Precise cut, **rotation only**, into hardened steel, metals, ceramic and hard building materials (up to 8° Mohs). **Rotary percussion** cut into marble, granit, stones.

Placchetta affilata con diamante con geometria innovativa.
Corpo rettificato con scarico ad "U", in acciaio legato HRC 40÷50. Saldobrasatura a 1100° C.

Large milled flute type "U" for an efficient dust removal.
Diamond sharpened. Body in alloy steel with HRC 40÷50. Brazing temperature at 1100° C.



Art. 03078201
€ 31,665

4 pcs
Ø 4x75 - 5x85
6x100 - 8x120 mm

Art. 03078202
€ 32,000

4 pcs
Ø 5x85 - 6x100
8x120 - 10x120 mm

Art. 03078204
€ 58,477

7 pcs
Ø 3x70 - 4x75
5x85 - 6x100
8x120 - 9x120
10x120 mm

Art. 03078208
€ 66,000

8 pcs
Ø 3x70 - 4x75
5x85 - 6x100
8x120 - 9x120
10x120 - 12x150 mm

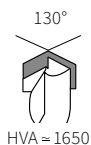
**PUNTA "FORATUTTO" UNIVERSALE MULTIK AD ALTE PRESTAZIONI
PER IL TAGLIO DI TUTTI I MATERIALI CON ATTACCO HEX 1/4"**
High performance multi-purpose drill bit



03077

DIN 8039 ISO 5468

Universali - Foratutto
Universal - Multipurpose

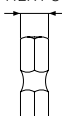


Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	1/4	45	90	1	030770300090	6,399
4	5/32	1/4	45	90	1	030770400090	6,444
5	3/16	1/4	50	100	1	030770500100	6,579
5,5	7/32	1/4	60	100	1	030770550100	7,085
6	15/64	1/4	60	100	1	030770600100	7,243
6	15/64	1/4	200	250	1	030770600250	13,124
6,5	1/4	1/4	200	250	1	030770650250	13,777
7	9/32	1/4	50	100	1	030770700100	8,888
8	5/16	1/4	50	100	1	030770800100	8,730
10	3/8	1/4	90	150	1	030771000150	12,764

1/4" HEX FORM E



Taglio preciso e senza sbavature **a rotazione** in metalli, ceramica e in tutti i materiali da edilizia durissimi (sino 8° Mohs) e **a rotopercussione** in marmo, granito, pietre.

Precise cut, **rotation only**, into hardened steel, metals, ceramic and hard building materials (up to 8° Mohs). **Rotary percussion** cut into marble, granite, stones.

Applicazioni
Applications



Pietre naturali e artificiali
Natural and artificial stones



Ceramica
Ceramics



Metalli
Metals



Piastrelle, mattoni durissimi
Tiles, hard burnt brick



Pietra - Granito
Natural stones granite



Legno
Wood



Plastica
Plastic

Placchetta affilata con diamante con geometria innovativa.
Corpo rettificato con scarico ad "U", in acciaio legato HRC 40÷50. Saldobrasatura a 1100° C.
Large milled flute type "U" for an efficient dust removal.
Diamond sharpened. Body in alloy steel with HRC 40÷50. Brazing temperature at 1100° C.



Art. 03078301
€ 39,367

4 pcs
Ø 4 - 5 - 6 - 8 mm

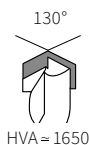
PUNTA "FORATUTTO" UNIVERSALE PER IL TAGLIO DI TUTTI I MATERIALI

High performance multi-purpose drill bit

03080

DIN 8039 ISO 5468

Universali - Foratutto Universal - Multipurpose



Affilatura positiva
Positive relief



Confezione
Packaging



**Art. 03081
Self**
Disponibile
su richiesta
On demand

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	40	70	10	030800300	2,884
4	5/32	3,8	40	75	10	030800400	2,884
5	3/16	4,5	40	85	10	030800500	2,884
6	15/64	5,5	55	100	10	030800600	3,011
7	9/32	6,5	55	100	10	030800700	3,415
8x107	5/16	7,5	70	107	10	030800800C	3,642
8	5/16	7,5	70	120	10	030800800	3,642
9	11/32	8	70	120	10	030800900	4,301
10	3/8	9	70	120	10	030801000	4,580
11	7/16	10	90	150	6	030801100	6,250
12x120	15/32	10	90	120	6	030801200C	6,250
12	15/32	10	90	150	6	030801200	6,250
13	1/2	10	90	150	6	030801300	9,017
14	9/16	10	90	150	6	030801400	10,699
15	19/32	10	90	150	6	030801500	14,050
16	5/8	10	90	150	6	030801600	14,050

03082

L = 250 mm

ØxL mm	d	l	L	pcs.	cod.	€ cad/each
6x150	5,5	125	150	10	030820600	7,463
8x250	7,5	130	250	10	030820800	11,001
10x250	9	130	250	10	030821000	11,461
12x250	10	130	250	6	030821200	14,426
14x250	10	130	250	6	030821400	22,463



**Art. 03083
Self**
Disponibile
su richiesta
On demand

Applicazioni Applications

- Pietre naturali e artificiali
Natural and artificial stones
- Ceramica
Ceramics
- Metalli
Metals
- Piastrelle, mattoni durissimi
Tiles, hard burnt brick
- Pietra - Granito
Natural stones granit
- Legno
Wood
- Plastica
Plastic



Per forare **a sola rotazione**: acciaio duro, acciai in genere, ghisa, tutti i metalli, muro, calcestruzzo, ceramica, pavimenti in genere, legno e derivati, plastica, laminati.

For **rotary cutting** in hardened steel, metals, cement, brick, tiles, ceramic, wood, plastics.



Art. 03085202
€ 21,893
7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03085203
€ 26,673
8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm



Art. 03085201
€ 14,367
4 pcs
Ø 4 - 5 - 6 - 8 - 10 mm



Art. 03085503
€ 807,061

156 pcs
Ø 3÷16 mm

Composizione
Description

Ø	pcs.
3	9
4	9
5	18
6	27
7	9
8	18
9	6
10	18
11	6
12	12
13	6
14	6
15	6
16	6

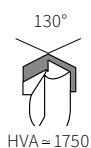
370x380x570

PUNTA UNIVERSALE "FORATUTTO®" CON ATTACCO HEX 1/4"

Multi-purpose drill bits

03089

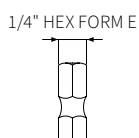
Universali - Foratutto
Universal - Multipurpose



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
3	1/4	33	75	1	030890300	3,972
4	1/4	40	83	1	030890400	4,196
5	1/4	46	93	1	030890500	4,196
6	1/4	56	97	1	030890600	4,533
7	1/4	48	97	1	030890700	4,879
8	1/4	70	120	1	030890800	4,971
9	1/4	70	120	1	030890900	5,360
10	1/4	70	120	1	030891000	5,636



Applicazioni
Applications



Pietre naturali e artificiali
Natural and artificial stones



Metalli
Metals



Pietra - Granito
Natural stones granite



Plastica
Plastic



Ceramica
Ceramics



Piastrelle, mattoni durissimi
Tiles, hard burnt brick



Legno
Wood



Art. 03085700
€ 27,355

5 pcs
Ø 4 - 5 - 6
8 - 10 mm

PUNTE PER VETRO E CERAMICA Glass drill bits

03140

Per vetro e ceramica
For glass and ceramic



HRA 90



Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
3	3	58	1	031400300	4,441
4	3	58	1	031400400	4,607
5	4	58	1	031400500	4,782
6	5	58	1	031400600	5,257
7	5	78	1	031400700	5,773
8	6	78	1	031400800	5,773
9	6	98	1	031400900	6,597
10	7	98	1	031401000	8,245
12	8	98	1	031401200	10,307

Applicazioni
Applications



Vetro
Glass



Ceramica
Ceramics



Taglio a sola rotazione nel vetro, selezionando la velocità di taglio più bassa possibile e refrigerando con acqua o trementina. Riaffilare frequentemente nel taglio di vetri duri.

Rotary cut in glass, with water cooling, at low speed.



Art. 03143 Self
Disponibile su richiesta
On demand












Art. 03146700
€ 27,511



5 pcs
Ø 4 - 5 - 6
8 - 10 mm

VISIONE D'INSIEME: PUNTE PER MURO CON ATTACCO SDS










Overview: Masonry drills with SDS shank

TIPO DI ATTACCO SHANK	DESCRIZIONE DESCRIPTION	IMMAGINE IMAGE	N° TAGLIANTI N° CUTTING EDGES	N° ELICHE N° HELIX
SDS-PLUS	HAMMER		4	4
	 Speedmaster® 4x4		4	4
	<i>SDS</i> lite		4	4
	K-8		4	4
	K4 SUPERPRO <i>K4 SUPERPRO</i>		2	4
	STANDARD <i>STANDARD</i>		2	2
SDS-MAX	SPECIALE GRANDI DIAMETRI DA 45 A 80 mm <i>SPECIAL FOR BIG DIAMETERS FROM 45 TO 80 mm</i>		2	2
	SUPER PRO <i>SUPER PRO</i>		2	2

SPECIALI CON ASPIRAZIONE POLVERE - SPECIALI CON ASPIRAZIONE POLVERE

SDS-PLUS	DUST FREE <i>DUST FREE</i>		4 ≤ 28 mm 2 > 28 mm	0
SDS-MAX	DUST FREE <i>DUST FREE</i>		4 ≤ 28 mm 2 > 28 mm	0



✓	✓	✓	✓	✓	COD. 	03169 p.520
✓	✓	✓	✓	✓	COD. 	03167 p.522
✓	✓	✓	✓	✓	COD. 	03152 p.525
✓	✓	✓	✓	✓	COD. 	03156 p.526
✓	✓	✓	✓	✓	COD. 	03160 p.528
✓	✓	✓	✓	✓	COD. 	03155 p.530
✓	✓	✓	✓	✓	COD. 	03171 p.532
✓	✓	✓	✓	✓	COD. 	03170 p.533
✓	✓	✓	✓	✓	COD. 	03172 p.534
✓	✓	✓	✓	✓	COD. 	03172 p.535

PUNTE PER TRAPANI A MARTELLO SDS-PLUS CON 4 ELICHE E 4 TAGLIENTI

SDS-PLUS hammer drills, 4 flutes, 4 cutting edges

HAMMER

03169



Saldatura per diffusione elettronica, 3 volte più resistente della saldobrasatura

Electronic diffusion bond, 3 times more resistant than brazing

MADE IN GERMANY



Confezione Packaging



Testa integrale in MD - 4 taglienti
Full carbide head - 4 edges

Applicazioni Applications



Muro Masonry



Calcestruzzo armato Reinforced Concrete



Pietra Natural Stones

Ø 18÷30 mm:
4 taglienti
2 eliche

Ø 18÷30 mm:
2 flutes
4 cutting edges



Ø 3,5÷4 mm



Ø 5÷16 mm



Ø 18÷30 mm

Ø mm	L	l	pcs.	cod.	€ cad/each	Ø mm	L	l	pcs.	cod.	€ cad/each
3,5	115	50	1	031691150350	11,246	11	165	100	1	031691651100	16,257
3,5	165	100	1	031691650350	12,505	11	215	150	1	031692151100	18,899
4	115	50	1	031691150400	12,155	11	265	200	1	031692651100	23,174
4	165	100	1	031691650400	12,694	12	165	100	1	031691651200	13,331
5	115	50	1	031691150500	8,723	12	215	150	1	031692151200	16,136
5	165	100	1	031691650500	9,854	12	265	200	1	031692651200	18,713
5	215	150	1	031692150500	12,268	12	315	250	1	031693151200	25,301
5	265	200	1	031692650500	14,596	12	365	300	1	031693651200	35,562
5	315	250	1	031693150500	20,375	12	465	400	1	031694651200	37,172
5	465	400	1	031694650500	35,562	12	600	550	1	031696001200	67,985
5,5	115	50	1	031691150550	9,290	12	1000	950	1	0316910001200	153,621
5,5	165	100	1	031691650550	10,494	13	165	100	1	031691651300	18,367
5,5	215	150	1	031692150550	12,268	13	215	150	1	031692151300	25,224
5,5	265	200	1	031692650550	15,429	13	265	200	1	031692651300	30,177
5,5	315	250	1	031693150550	20,375	14	165	100	1	031691651400	18,437
5,5	465	400	1	031694650550	37,341	14	215	150	1	031692151400	24,597
6	115	50	1	031691150600	9,150	14	265	200	1	031692651400	28,205
6	165	100	1	031691650600	10,055	14	315	250	1	031693151400	31,111
6	215	150	1	031692150600	12,339	14	365	300	1	031693651400	39,118
6	265	200	1	031692650600	14,533	14	465	400	1	031694651400	39,582
6	315	250	1	031693150600	20,597	14	600	550	1	031696001400	70,196
6	465	400	1	031694650600	35,562	14	1000	950	1	0316910001400	188,042
6,5	115	50	1	031691150650	10,219	15	165	100	1	031691651500	26,672
6,5	165	100	1	031691650650	12,339	15	265	200	1	031692651500	33,220
6,5	215	150	1	031692150650	16,625	15	465	400	1	031694651500	47,552
6,5	265	200	1	031692650650	20,009	16	215	150	1	031692151600	32,463
6,5	315	250	1	031693150650	24,597	16	265	200	1	031692651600	36,654
6,5	465	400	1	031694650650	48,000	16	315	250	1	031693151600	41,303
7	115	50	1	031691150700	12,155	16	465	400	1	031694651600	49,838
7	165	100	1	031691650700	13,233	16	600	550	1	031696001600	82,685
7	215	150	1	031692150700	16,003	16	1000	950	1	0316910001600	194,781
7	265	215	1	031692650700	29,400	17	215	150	1	031692151700	54,814
8	115	50	1	031691150800	10,417	17	315	250	1	031693151700	63,516
8	165	100	1	031691650800	10,652	18	250	200	1	031692501800	57,271
8	215	150	1	031692150800	12,523	18	450	400	1	031694501800	68,291
8	265	200	1	031692650800	14,744	18	600	550	1	031696001800	76,252
8	315	250	1	031693150800	19,813	18	1000	950	1	0316910001800	179,399
8	365	300	1	031693650800	30,228	20	250	200	1	031692502000	65,727
8	465	400	1	031694650800	32,514	20	450	400	1	031694502000	72,089
9	165	100	1	031691650900	12,339	20	600	550	1	031696002000	146,694
9	215	150	1	031692150900	14,178	20	1000	950	1	0316910002000	209,163
10	115	50	1	031691151000	10,730	22	250	200	1	031692502200	81,520
10	165	100	1	031691651000	11,786	22	450	400	1	031694502200	107,063
10	215	150	1	031692151000	13,691	22	600	550	1	031696002200	151,716
10	265	200	1	031692651000	16,625	22	1000	950	1	0316910002200	212,845
10	315	250	1	031693151000	20,009	24	450	400	1	031694502400	120,482
10	365	300	1	031693651000	32,006	25	450	400	1	031694502500	122,504
10	465	400	1	031694651000	35,128	25	600	550	1	031696002500	178,294
10	600	550	1	031696001000	66,151	25	1000	950	1	0316910002500	245,125
10	1000	950	1	0316910001000	143,942	28	450	400	1	031694502800	135,605
						30	450	400	1	031694503000	148,471

4 taglienti HVA 1650

Placchetta integrale a 4 taglienti in metallo duro resistente alla forte percussione, è saldato al corpo per diffusione elettronica.

4 cutting edges HVA 1650

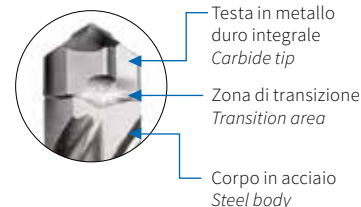
One-piece 4 cutting edges carbide tip resisting to percussion. Welded to the body by electronic diffusion bond.

4 eliche

Corpo fresato con scanalatura a "L" ad alta evacuazione.

4 flutes

Large milled flute type "L" for a faster dust removal.



ASSORTIMENTI PUNTE SDS-PLUS
CON 4 ELICHE E 4 TAGLIENTI
SDS/PLUS hammer drills sets, 4 flutes, 4 cutting edges

HAMMER



Art. 03174203
€ 59,928

5 pcs
Ø 5 - 6 x 115 mm
Ø 8 - 10 - 12 x 165 mm



Art. 03174403
€ 86,505

7 pcs
Ø 5 - 6 - 8 x 115 mm
Ø 6 - 8 - 10 - 12 x 165 mm



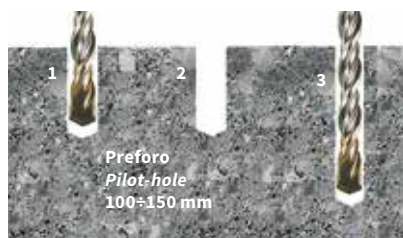
Art. 03174503
€ 976,433

68 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.	Ø	pcs.
5x115	3	10x215	3
6x115	8	12x215	3
5x165	3	14x215	2
6x165	8	16x215	2
8x165	8	8x265	2
10x165	5	10x265	2
12x165	5	12x265	2
6x215	4	14x265	2
8x215	4	16x265	2

370x380x570



Preforo
Pilot-hole
100÷150 mm

Per punte con $L \geq 300$ mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with $L \geq 300$ mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.

La speciale testa dell'utensile è saldata al corpo per diffusione: questa nuova tecnologia garantisce un legame estremamente stabile tra placchetta in metallo duro e corpo della punta, perché la giunzione avviene allo stato solido per diffusione degli atomi del reticolo cristallino all'interfaccia tra i due pezzi.

La placchetta in metallo duro monoblocco a 4 taglienti garantisce una grande capacità di taglio, una perfetta trasmissione della potenza e un'ottima asportazione dei detriti grazie alla combinazione dei 4 taglienti, della placchetta integrale e delle 4 eliche. La punta a 4 taglienti e 4 spirali taglia sempre e senza problemi il tondino nel cemento armato. Garantisce un grande rendimento di taglio in tutti i materiali edili, cemento, granito, cemento armato, pietre in genere, mattoni. Grande precisione di foratura, grande durata della vita dell'utensile, massima limitazione delle vibrazioni del martello.

One-piece carbide tip is welded to the body by electronic diffusion bonding: this new technology assures a very stable link between the carbide tip and the drill body, because the bonding is made between solid phases through the atoms diffusion. The solid carbide tip assures high performances, a good power transmission and a great debris removal thanks to 4 flutes and 4 cutting edges one-piece solid carbide. The hammer drill 4x4 Speedmaster always cuts the steel bar into reinforced concrete. You can drill into all the building materials, concrete, masonry, reinforced concrete, stones, bricks. It assures thorough holes, long tool life cycle, low hammer vibrations

**PUNTE PER TRAPANI A MARTELLO SDS-PLUS
CON 4 ELICHE E 4 TAGLIENTI**
SDS-PLUS hammer drills, 4 flutes, 4 cutting edges

4x4 

Testa integrale in MD - 4 taglienti
Full carbide head - 4 edges

03167



MADE IN GERMANY



Confezione
Packaging



Ø mm	L	l	pcs.	cod.	€ cad/each
5	110	50	1	031671100500	10,524
5	160	100	1	031671600500	11,327
5,5	110	50	1	031671100550	11,192
5,5	160	100	1	031671600550	12,128
6	110	50	1	031671100600	10,659
6	160	100	1	031671600600	11,661
6	210	150	1	031672100600	14,614
6	260	200	1	031672600600	17,557
6	310	250	1	031673100600	25,070
6,5	160	100	1	031671600650	14,815
6,5	210	150	1	031672100650	19,978
6,5	260	200	1	031672600650	25,673
6,5	310	250	1	031673100650	29,887
7	110	50	1	031671100700	14,069
7	160	100	1	031671600700	14,882
8	110	50	1	031671100800	12,396
8	160	100	1	031671600800	13,078
8	210	150	1	031672100800	14,882
8	260	200	1	031672600800	18,093
8	310	250	1	031673100800	25,807
8	460	400	1	031674600800	36,464
9	160	100	1	031671600900	13,745
10	110	50	1	031671101000	12,865
10	160	100	1	031671601000	13,745
10	210	150	1	031672101000	16,219
10	260	200	1	031672601000	19,776
10	310	250	1	031673101000	23,789
10	450	400	1	031674501000	41,625
10	600	550	1	031676001000	60,532
10	1000	950	1	0316710001000	150,817
11	160	100	1	031671601100	16,476
11	210	150	1	031672101100	19,877
12	160	100	1	031671601200	15,885
12	210	150	1	031672101200	19,375
12	260	200	1	031672601200	21,983
12	310	250	1	031673101200	30,165
12	450	400	1	031674501200	45,317
12	600	550	1	031676001200	62,393

Ø mm	L	l	pcs.	cod.	€ cad/each
12	1000	950	1	0316710001200	159,188
13	160	100	1	031671601300	20,723
13	210	150	1	031672101300	34,670
13	260	200	1	031672601300	39,017
13	310	250	1	031673101300	41,770
14	160	100	1	031671601400	22,452
14	210	150	1	031672101400	30,021
14	260	200	1	031672601400	33,110
14	310	250	1	031673101400	37,200
14	450	400	1	031674501400	46,720
14	600	550	1	031676001400	67,699
14	1000	950	1	0316710001400	165,219
15	160	100	1	031671601500	35,127
15	210	150	1	031672101500	40,891
15	260	200	1	031672601500	44,501
15	450	400	1	031674501500	58,982
16	160	100	1	031671601600	37,200
16	210	150	1	031672101600	41,893
16	260	200	1	031672601600	44,580
16	310	250	1	031673101600	50,265
16	450	400	1	031674501600	59,663
16	600	550	1	031676001600	82,850
16	1000	950	1	0316710001600	174,260
18	250	200	1	031672501800	61,056
18	450	400	1	031674501800	72,114
20	250	200	1	031672502000	68,236
20	450	400	1	031674502000	78,491
22	250	200	1	031672502200	72,315
22	450	400	1	031674502200	91,021
24	250	200	1	031672502400	83,585
24	450	400	1	031674502400	100,741
25	250	200	1	031672502500	86,540
25	450	400	1	031674502500	106,103
28	250	200	1	031672502800	102,013
28	450	400	1	031674502800	112,134
30	250	200	1	031672503000	107,519
30	450	400	1	031674503000	146,737
32	450	400	1	031674503200	157,917

Applicazioni
Applications



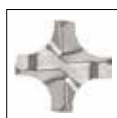
Muro
Masonry



Calcestruzzo
armato
Reinforced
Concrete



Pietra
Natural Stones



Solid
Carbide head

Ø 5-10 mm



Single
Carbide tip

Ø 12-16 mm



Multi-part
Carbide tip

Ø 18-32 mm

4 taglienti HVA 1650

Placchetta integrale a 4 taglienti in metallo duro resistente alla forte percussione, brasatura con lega saldante a 1100°C.

4 cutting edges HVA 1650

One-piece 4 cutting edges carbide tip resisting to percussion. Brazing temperature at 1000°C

4 eliche

Corpo fresato con scanalatura a "L" ad alta evacuazione.

4 flutes

Large milled flute type "L" for a faster dust removal.



Per punte con L ≥ 300 mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with L ≥ 300 mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.



ASSORTIMENTI PUNTE SDS-PLUS
CON 4 ELICHE E 4 TAGLIENTI
SDS/PLUS hammer drills sets, 4 flutes, 4 cutting edges

4x4 



Art. 03168402
€ 98,000

7 pcs
Ø 5 - 6 - 8 x 110 mm
Ø 6 - 8 - 10 - 12 x 160 mm



Art. 03168203
€ 76,163

5 pcs
Ø 5 - 6 x 110 mm
Ø 8 - 10 - 12 x 160 mm



Art. 03168460
€ 544,691

30 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	5
8x160	5
10x160	5
12x160	5
10x210	5
12x210	3
14x210	2



370x380x570

Art. 03168503
€ 1.355,717

68 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	3
6x110	8
5x160	3
6x160	8
8x160	8
10x160	5
12x160	5
6x210	4
8x210	4
10x210	3
12x210	3
14x210	2
16x210	2
8x260	2
10x260	2
12x260	2
14x260	2
16x260	2



370x380x570

Art. 03168500
€ 1.012,143

46 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	4
6x110	6
6x160	6
8x160	6
10x160	4
12x160	4
8x210	4
10x210	2
12x210	2
14x210	2
16x210	2
14x260	2
16x260	2

SDSlite



Testa integrale in metallo duro

Full carbide head

Massima stabilità

Max stability

Grazie alla speciale punta
a forma piramidale

*thanks to special pyramid
shape of the tip*

4 taglienti

4 cutting edges

Per massime prestazioni
nei lavori gravosi

*For max performances
on heavy works*

Saldatura elettronica per diffusione

*Diffusion welding
process*

La saldatura omogenea tra
la testa e il corpo della punta
permette di resistere a elevate
sollecitazioni e calore

*The homogeneous weld
between the head and body of
the tip allows it to withstand to
high temperatures and stress*

PUNTE "SDS LITE" PER TRAPANI A MARTELLINO SDS-PLUS
 CON 4 ELICHE E 4 TAGLIENTI
 SDS-PLUS hammer drills "SDS-LITE", 4 flutes, 4 cutting edges

SDSlite

03152

Testa integrale in MD - 4 taglienti
 Full carbide head - 4 edges

SDS PLUS



Confezione
 Packaging



Ø mm	L	l	pcs.	cod.	€ cad/each
6	115	50	1	031521150600	6,680
6	165	100	1	031521650600	7,345
6	215	150	1	031522150600	9,010
8	115	50	1	031521150800	7,605
8	165	100	1	031521650800	7,990
8	215	150	1	031522150800	9,395
8	265	200	1	031522650800	12,095
8	315	250	1	031523150800	14,860
10	165	100	1	031521651000	9,195
10	215	150	1	031522151000	10,680
10	265	200	1	031522651000	13,635
10	315	250	1	031523151000	16,410
12	165	100	1	031521651200	12,910
12	215	150	1	031522151200	12,910
12	265	200	1	031522651200	15,910
12	315	250	1	031523151200	18,470
12	465	400	1	031524651200	27,140



Applicazioni
 Applications



Muro
 Masonry



Calcestruzzo
 armato
 Reinforced
 Concrete



Pietra
 Natural Stones



Per punte con $L \geq 300$ mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with $L \geq 300$ mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.

PUNTE PER TRAPANI A MARTELLO SDS-PLUS CON 4 ELICHE E 4 TAGLIENTI

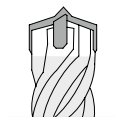
SDS-PLUS hammer drills, 4 flutes, 4 cutting edges



03156

4 taglianti
4 cutting edges

SDS PLUS



HVA = 1650



4 taglianti
4 cutting edges

4 spirali
4 spirals



Confezione
Packaging



Applicazioni
Applications



Muro
Masonry

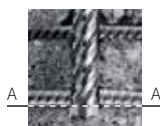


Calcestruzzo
armato
Reinforced
Concrete



Pietra
Natural Stones

Ø mm	L	l	pcs.	cod.	€ cad/each	Ø mm	L	l	pcs.	cod.	€ cad/each
5	110	50	1	031561100500	3,745	13	160	100	1	031561601300	6,645
5	160	100	1	031561600500	4,370	13	210	150	1	031562101300	8,532
5,5	160	100	1	031561600550	4,714	13	260	200	1	031562601300	8,836
6	110	50	1	031561100600	3,996	13	460	400	1	031564601300	14,488
6	160	100	1	031561600600	4,714	14	160	100	1	031561601400	7,824
6	210	150	1	031562100600	6,551	14	210	150	1	031562101400	8,699
6	260	200	1	031562600600	7,488	14	260	200	1	031562601400	9,232
6,5	160	100	1	031561600650	4,829	14	310	250	1	031563101400	13,487
6,5	210	150	1	031562100650	6,551	14	460	400	1	031564601400	15,042
6,5	260	200	1	031562600650	7,488	14	600	550	1	031566001400	29,195
7	110	50	1	031561100700	4,235	15	160	100	1	031561601500	9,220
7	160	100	1	031561600700	4,829	15	260	200	1	031562601500	10,107
8	110	50	1	031561100800	4,370	16	160	100	1	031561601600	10,712
8	160	100	1	031561600800	4,965	16	210	150	1	031562101600	11,306
8	210	150	1	031562100800	6,685	16	260	200	1	031562601600	14,353
8	260	200	1	031562600800	7,625	16	310	250	1	031563101600	15,437
8	310	250	1	031563100800	9,220	16	460	400	1	031564601600	16,188
8	460	400	1	031564600800	15,176	16	600	550	1	031566001600	33,534
9	160	100	1	031561600900	5,048	18	210	150	1	031562101800	14,821
9	210	150	1	031562100900	7,113	18	260	200	1	031562601800	17,347
10	110	50	1	031561101000	4,486	18	310	250	1	031563101800	16,220
10	160	100	1	031561601000	5,122	18	460	400	1	031564601800	19,391
10	210	150	1	031562101000	7,113	18	600	550	1	031566001800	33,514
10	260	200	1	031562601000	7,750	20	200	150	1	031562002000	20,037
10	310	250	1	031563101000	11,275	20	310	250	1	031563102000	21,601
10	360	300	1	031563601000	13,978	20	460	400	1	031564602000	25,180
10	460	400	1	031564601000	15,219	20	600	550	1	031566002000	37,352
10	610	550	1	031566101000	24,606	22	250	200	1	031562502200	22,290
11	160	100	1	031561601100	5,800	22	460	400	1	031564602200	28,392
11	210	150	1	031562101100	7,468	22	600	550	1	031566002200	43,110
11	260	200	1	031562601100	8,042	24	260	200	1	031562602400	24,293
12	160	100	1	031561601200	5,800	24	460	400	1	031564602400	30,321
12	210	150	1	031562101200	7,812	25	260	200	1	031562602500	26,305
12	260	200	1	031562601200	8,355	25	460	400	1	031564602500	32,888
12	310	250	1	031563101200	13,341	26	460	400	1	031564602600	41,128
12	460	400	1	031564601200	16,303	28	460	400	1	031564602800	44,007
12	600	550	1	031566001200	27,016	30	460	400	1	031564603000	51,194



Sez. AA

Immagine ottenuta
al microscopio
sezionando la testa
dell'utensile



Picture of the carbide
tip



Per punte con L ≥ 300 mm si raccomanda
un preforo con punte di lunghezza inferiore
(200±150 mm).

For drills with L ≥ 300 mm, pre-drilling
with shorter drill bits (200±150 mm) is
recommended.



Placchetta in metallo duro integrale con 4 taglianti, 4 eliche rapide, corpo in acciaio ad alta resistenza.
La punta a 4 taglianti e 4 spirali taglia sempre il tondino in cemento armato e non si blocca mai.
Grande durata dell'utensile, precisione e circolarità del foro.

One-piece solid carbide with 4 cutting edges, 4 flutes, steel body with high resistance.

One-piece solid carbide tip always cuts the steel bar into reinforced concrete and it never stops.

Long life cycle, thoroughness and roundness of the hole.

**ASSORTIMENTI PUNTE SDS-PLUS
CON 4 ELICHE E 4 TAGLIENTI**
SDS-PLUS hammer drills sets, 4 flutes, 4 cutting edges K8



METAL

Art. 03166401
€ 40,637

7 pcs
Ø 5 - 6 - 8 x 110 mm
Ø 6 - 8 - 10 - 12 x 160 mm



Art. 03166460
€ 233,913

30 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	5
8x160	5
10x160	5
12x160	5
10x210	5
12x210	3
14x210	2



Art. 03165310
€ 69,512

13 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.		Ø	pcs.
6x160	1		L=250	1
8x160	1		L=250	1
10x160	1		L=250	1
8x210	1		L=250	1
10x210	1		L=250	1
12x210	1		L=250	1
10x260	1			
12x260	1			
14x260	1			



Art. 03166503
€ 846,554

107 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	5
6x110	10
5x160	5
6x160	10
8x160	10
10x160	10
12x160	10
6x210	5
8x210	5
10x210	5
12x210	5
14x210	5
16x210	3
8x260	5
10x260	5
12x260	3
14x260	3
16x260	3

370x380x570



PUNTE PER TRAPANI A MARTELLO SDS-PLUS, QUALITÀ SUPER PROFESSIONALE "K 4"

SDS-PLUS hammer drills "K 4"

03160

K4 SUPERPRO

2 taglianti
2 cutting edges



HVA = 1650

2 taglianti
2 cutting edges

4 spirali
4 spirals

MADE IN
GERMANY

Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



Pietra
Natural Stones

* Corpo a doppia spirale per
 $\varnothing \leq 4$ mm
 $\varnothing > 16$ mm
Double spiral body
 $\varnothing \leq 4$ mm
 $\varnothing > 16$ mm



Placchetta "attiva"
con gole di scarico
"Active" plate

$\varnothing \leq 10$ mm + $\varnothing > 16$ mm



Placchetta con
puntina di centraggio
Plate with
centering point

$10 < \varnothing \leq 16$ mm

$L \geq 300$ mm



Confezione
Packaging



\varnothing mm	L	l	pcs.	cod.	€ cad/each	\varnothing mm	L	l	pcs.	cod.	€ cad/each
*3,5	110	50	1	031601100350	9,754	12	310	250	1	031603101200	18,185
*3,5	135	75	1	031601350350	15,714	12	460	400	1	031604601200	23,572
*4	110	50	1	031601100400	8,204	12	610	550	1	031606101200	32,639
*4	160	100	1	031601600400	10,676	12	1000	950	1	0316010001200	69,189
5	110	50	1	031601100500	5,170	13	160	100	1	031601601300	15,139
5	160	100	1	031601600500	7,136	13	210	150	1	031602101300	16,492
5	210	150	1	031602100500	12,104	13	260	200	1	031602601300	18,185
5	310	250	1	031603100500	16,809	14	160	100	1	031601601400	12,522
5,5	110	50	1	031601100550	5,518	14	210	150	1	031602101400	15,139
5,5	160	100	1	031601600550	7,354	14	260	200	1	031602601400	16,061
5,5	210	150	1	031602100550	10,280	14	310	250	1	031603101400	20,248
5,5	260	200	1	031602600550	18,820	14	460	400	1	031604601400	25,767
5,5	310	250	1	031603100550	27,254	14	610	550	1	031606101400	40,917
5,5	460	400	1	031604600550	46,241	14	1000	950	1	0316010001400	81,160
6	110	50	1	031601100600	4,798	15	160	100	1	031601601500	18,688
6	160	100	1	031601600600	5,864	15	260	200	1	031602601500	22,648
6	210	150	1	031602100600	6,862	15	460	400	1	031604601500	36,897
6	260	200	1	031602600600	8,985	16	210	150	1	031602101600	21,447
6	460	400	1	031604600600	23,285	16	260	200	1	031602601600	25,490
6,5	110	50	1	031601100650	5,721	16	310	250	1	031603101600	25,982
6,5	160	100	1	031601600650	5,937	16	460	400	1	031604601600	35,902
6,5	210	150	1	031602100650	10,041	16	610	550	1	031606101600	42,343
6,5	260	200	1	031602600650	10,472	16	1000	950	1	0316010001600	86,834
6,5	310	250	1	031603100650	13,447	17	210	150	1	031602101700	34,485
7	110	50	1	031601100700	7,569	18	200	150	1	031602001800	27,757
7	160	100	1	031601600700	8,770	18	300	250	1	031603001800	32,075
7	210	150	1	031602100700	9,754	18	450	400	1	031604501800	41,503
8	110	50	1	031601100800	5,864	18	600	550	1	031606001800	57,116
8	160	100	1	031601600800	7,426	18	1000	950	1	0316010001800	94,126
8	210	150	1	031602100800	7,642	19	200	150	1	031602001900	44,477
8	260	200	1	031602600800	9,345	19	450	400	1	031604501900	66,789
8	310	250	1	031603100800	12,829	20	200	150	1	031602002000	31,932
8	460	400	1	031604600800	21,011	20	300	250	1	031603002000	37,103
8	610	550	1	031606100800	30,103	20	450	400	1	031604502000	46,744
9	160	100	1	031601600900	11,035	20	600	550	1	031606002000	62,345
9	210	150	1	031602100900	12,031	20	1000	950	1	0316010002000	107,225
10	110	50	1	031601101000	6,298	22	250	200	1	031602502200	39,788
10	160	100	1	031601601000	7,354	22	450	400	1	031604502200	71,599
10	210	150	1	031602101000	8,625	22	600	550	1	031606002200	80,203
10	260	200	1	031602601000	10,123	22	1000	950	1	0316010002200	123,250
10	310	250	1	031603101000	11,135	24	250	200	1	031602502400	48,303
10	460	400	1	031604601000	21,756	24	450	400	1	031604502400	67,570
10	610	550	1	031606101000	35,049	25	250	200	1	031602502500	48,856
10	1000	950	1	0316010001000	59,339	25	300	250	1	031603002500	87,613
11	160	100	1	031601601100	11,114	25	450	400	1	031604502500	75,211
11	210	150	1	031602101100	15,651	25	1000	950	1	0316010002500	153,094
11	260	200	1	031602601100	17,470	26	250	200	1	031602502600	57,014
12	160	100	1	031601601200	10,843	26	450	400	1	031604502600	74,717
12	210	150	1	031602101200	12,740						
12	260	200	1	031602601200	14,011						



Corpo a 4 spirali indipendenti per un avanzamento più veloce (+35%) ed un maggior scarico dei detriti. Corpo in acciaio legato con HRC 50÷55. Geometria della testa più snella e più aggressiva, per un'ottima trasmissione della potenza. Saldobrasatura a 1100°C in atmosfera di gas protettivo.

Higher speed and durability due to the unique 4-fold spirals (more dust removal, more feeding speed); unique and aggressive head geometry for a smooth power transmission. Body in alloy steel with HRC 50÷55. Brazing temperature at 1100°C.

Taglio ad altissimo rendimento a rotopercolazione, su martelli SDS-plus, nel muro, cemento, calcestruzzo, pietre. Taglia anche il tondino di acciaio del cemento armato incontrato nella foratura.

Superprofessional hammer drills for intensive usage in concrete, masonry, bricks, natural stone, etc..

ASSORTIMENTI PUNTE SDS-PLUS, QUALITÀ SUPER PROFESSIONALE "K 4" "K 4" Hammer drills sets



Art. 03163203
€ 40,613

5 pcs
Ø 5 - 6 x 110 mm
Ø 8 - 10 - 12 x 160 mm



Art. 03163403
€ 54,696

7 pcs
Ø 5 - 6 - 8 x 110 mm
Ø 6 - 8 - 10 - 12 x 160 mm



Art. 03163460
€ 282,379

30 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	5
8x160	5
10x160	5
12x160	5
10x210	5
12x210	3
14x210	2



Art. 03163503
€ 742,478

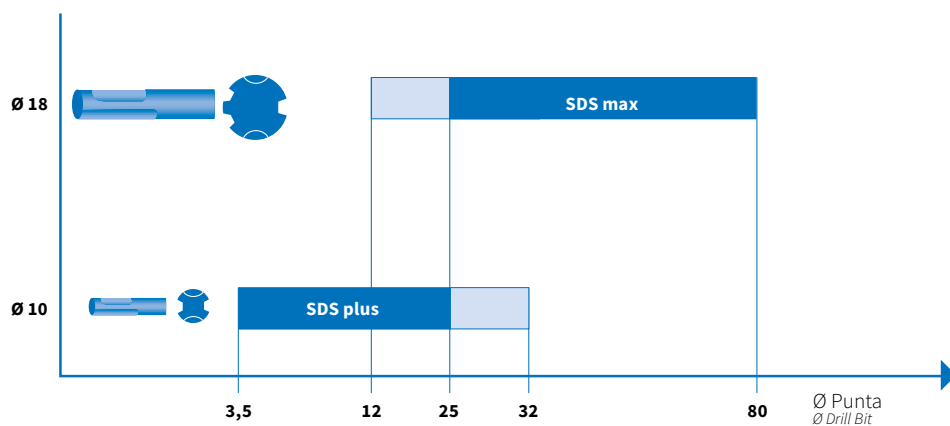
71 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	3
6x110	8
5x160	3
6x160	8
8x160	8
9x160	3
10x160	5
12x160	5
6x210	4
8x210	4
10x210	3
12x210	3
14x210	2
16x210	2
8x260	2
10x260	2
12x260	2
14x260	2
16x260	2

390x150x225

Campo di applicazione raccomandato per gli attacchi SDS per martelli
Range of applications for the SDS shanks



PUNTE PER TRAPANI A MARTELLO SDS-PLUS, QUALITÀ STANDARD Hammer drills

03155

2 taglienti - qualità standard 2 cutting edges - standard quality

SDS PLUS

Confezione
Packaging



HVA = 1650

2 taglienti
2 cutting edges

4 spirali
4 spirals

Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



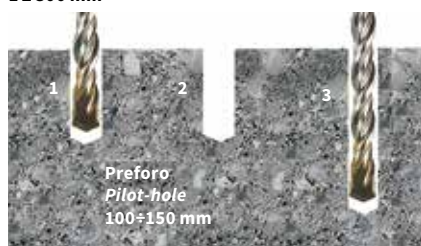
Pietra
Natural Stones



Ø mm	L	l	pcs.	cod.	€ cad/each	Ø mm	L	l	pcs.	cod.	€ cad/each
4	110	50	1	031551100400	3,564	12	1000	950	1	0315510001200	38,889
4	160	100	1	031551600400	3,767	13	160	100	1	031551601300	6,813
5	110	50	1	031551100500	3,298	13	210	150	1	031552101300	9,968
5	160	100	1	031551600500	3,502	13	260	200	1	031552601300	10,231
5	210	150	1	031552100500	4,141	13	460	400	1	031554601300	15,846
5,5	110	50	1	031551100550	3,479	14	160	100	1	031551601400	6,873
5,5	160	100	1	031551600550	3,671	14	210	150	1	031552101400	7,989
5,5	210	150	1	031552100550	4,355	14	260	200	1	031552601400	9,093
6	110	50	1	031551100600	3,322	14	310	250	1	031553101400	12,139
6	160	100	1	031551600600	3,634	14	460	400	1	031554601400	15,846
6	210	150	1	031552100600	4,881	14	600	550	1	031556001400	24,530
6	260	200	1	031552600600	5,721	14	1000	950	1	0315510001400	46,654
6,5	160	100	1	031551600650	3,767	15	160	100	1	031551601500	8,432
6,5	210	150	1	031552100650	5,217	15	260	200	1	031552601500	11,312
6,5	260	200	1	031552600650	6,213	16	160	100	1	031551601600	9,213
6,5	310	250	1	031553100650	8,039	16	210	150	1	031552101600	10,231
7	110	50	1	031551100700	3,767	16	260	200	1	031552601600	13,278
7	160	100	1	031551600700	4,224	16	310	250	1	031553101600	15,630
8	110	50	1	031551100800	3,611	16	460	400	1	031554601600	18,088
8	160	100	1	031551600800	4,053	16	600	550	1	031556001600	32,784
8	210	150	1	031552100800	5,242	16	1000	950	1	0315510001600	56,911
8	260	200	1	031552600800	6,213	18	210	150	1	031552101800	12,583
8	310	250	1	031553100800	8,985	18	260	200	1	031552601800	15,054
8	460	400	1	031554600800	14,166	18	310	250	1	031553101800	16,793
9	160	100	1	031551600900	4,546	18	460	400	1	031554601800	20,453
9	210	150	1	031552100900	6,250	18	600	550	1	031556001800	33,562
10	110	50	1	031551101000	4,210	18	1000	950	1	0315510001800	61,833
10	160	100	1	031551601000	4,655	20	200	150	1	031552002000	14,166
10	210	150	1	031552101000	5,768	20	310	250	1	031553102000	19,851
10	260	200	1	031552601000	6,765	20	460	400	1	031554602000	26,067
10	310	250	1	031553101000	10,003	20	600	550	1	031556002000	41,443
10	360	300	1	031553601000	12,907	20	1000	950	1	0315510002000	68,370
10	460	400	1	031554601000	14,790	22	250	200	1	031552502200	18,881
10	610	550	1	031556101000	20,980	22	460	400	1	031554602200	29,580
10	1000	950	1	0315510001000	34,375	22	600	550	1	031556002200	44,586
11	160	100	1	031551601100	5,195	22	1000	950	1	0315510002200	82,172
11	210	150	1	031552101100	7,340	24	260	200	1	031552602400	22,299
11	260	200	1	031552601100	7,880	24	460	400	1	031554602400	34,282
12	160	100	1	031551601200	4,930	25	260	200	1	031552602500	22,299
12	210	150	1	031552101200	6,789	25	460	400	1	031554602500	35,134
12	260	200	1	031552601200	7,880	25	1000	950	1	0315510002500	92,901
12	310	250	1	031553101200	11,840	26	460	400	1	031554602600	41,443
12	460	400	1	031554601200	15,475	28	460	400	1	031554602800	50,884
12	600	550	1	031556001200	22,431	30	460	400	1	031554603000	61,883



L ≥ 300 mm



Taglio a rotopercolazione, su martelli con attacco SDS-PLUS, nel muro, cemento, calcestruzzo, pietre.

Rotary percussion cut, with SDS plus hammers, in masonry, cement, reinforced concrete, natural and artificial stone.

ASSORTIMENTI PUNTE PER TRAPANI A MARTELLO SDS-PLUS Hammer drills sets



Art. 03165203
€ 24,219

5 pcs
Ø 5 - 6 x 110 mm
Ø 8 - 10 - 12 x 160 mm



Art. 03165401
€ 35,280

7 pcs
Ø 5 - 6 - 8 x 110 mm
Ø 6 - 8 - 10 - 12 x 160 mm



Art. 03165460
€ 167,774

30 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	5
8x160	5
10x160	5
12x160	5
10x210	5
12x210	3
14x210	2



Art. 03165503
€ 502,096

71 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	3
6x110	8
5x160	3
6x160	8
8x160	8
9x160	3
10x160	5
12x160	5
6x210	4
8x210	4
10x210	3
12x210	3
14x210	2
16x210	2
8x260	2
10x260	2
12x260	2
14x260	2
16x260	2

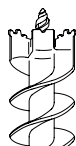
390x150x225

PUNTA DI GRANDE DIAMETRO PER MARTELLI SDS-MAX

Breakthrough drill bit SDS-MAX

03171

SDS-MAX speciale grandi diametri SDS MAX - big diameters



Integrale
One piece

MADE IN
GERMANY

Applicazioni Applications



Muro
Masonry



Calcestruzzo
armato
Reinforced
Concrete



Mattone
Brick



Confezione
Packaging



Ø mm	L	l	pcs. 	cod.	€ cad/each
40	550	100	1	031715504000	410,000
45	550	100	1	031715504500	424,484
45	990	100	1	031719904500	494,694
55	550	100	1	031715505500	478,740
55	990	100	1	031719905500	563,851
65	550	100	1	031715506500	530,870
65	990	100	1	031719906500	604,277
80	550	100	1	031715508000	595,768
80	990	100	1	031719908000	757,472



Adatta per la foratura di grandi dimensioni (Ø 45÷80 mm) con martelli SDS-MAX in cemento, muratura, arenaria. Speciale per forature passanti per il passaggio di cavi e tubature.

Useful for drilling into large diameters (Ø 45÷80 mm) with SDS-MAX hammer tools into concrete, masonry, sandstone. Special for breakthrough cuts for cables and pipes.

ADATTATORE A CAMBIO RAPIDO SDS-MAX / SDS-PLUS

SDS-MAX / SDS-PLUS adapter



	cod.	L	€ cad/each
	03184101	220	88,211

PUNTE PER MARTELLI SDS-MAX SUPERPROFESSIONALI

Super professional hammer drills bits SDS-MAX

SDS-MAX
SDS MAX

03170



MADE IN
GERMANY

Applicazioni
Applications



Confezione
Packaging



Ø	L	l	pcs.	cod.	€ cad/each	Ø	L	l	pcs.	cod.	€ cad/each
mm	mm	mm				mm	mm	mm			
*12	340	200	1	031703401200	51,609	25	720	600	1	031707202500	119,520
*12	540	400	1	031705401200	72,451	25	920	800	1	031709202500	183,754
*12	740	600	1	031707401200	101,448	25	1320	1200	1	0317013202500	332,273
*14	340	200	1	031703401400	52,562	26	520	400	1	031705202600	154,350
*14	540	400	1	031705401400	72,451	28	320	200	1	031703202800	121,451
*14	740	600	1	031707401400	101,448	28	520	400	1	031705202800	157,829
*14	940	800	1	031709401400	130,899	28	720	600	1	031707202800	185,521
*15	340	200	1	031703401500	58,311	28	920	800	1	031709202800	185,521
*15	540	400	1	031705401500	78,605	28	1320	1200	1	0317013202800	321,136
16	340	200	1	031703401600	65,060	30	320	200	1	031703203000	137,184
16	540	400	1	031705401600	75,324	30	520	400	1	031705203000	166,136
16	740	600	1	031707401600	101,448	32	320	200	1	031703203200	143,481
16	940	800	1	031709401600	133,414	32	520	400	1	031705203200	176,202
16	1340	1200	1	0317013401600	278,150	32	720	600	1	031707203200	215,754
18	340	200	1	031703401800	61,326	32	920	800	1	031709203200	270,598
18	540	400	1	031705401800	83,075	32	1320	1200	1	0317013203200	367,902
18	740	600	1	031707401800	101,448	35	370	250	1	031703703500	169,917
18	940	800	1	031709401800	133,414	35	520	400	1	031705203500	200,115
18	1340	1200	1	0317013401800	299,551	35	720	600	1	031707203500	240,400
19	520	400	1	031705201900	98,853	35	920	800	1	031709203500	286,877
20	320	200	1	031703202000	71,797	35	1320	1200	1	0317013203500	367,902
20	520	400	1	031705202000	89,869	37	570	450	1	031705703700	264,315
20	720	600	1	031707202000	99,889	37	920	800	1	031709203700	370,034
20	920	800	1	031709202000	120,823	38	370	250	1	031703703800	187,536
20	1320	1200	1	0317013202000	313,397	38	520	400	1	031705203800	230,323
22	320	200	1	031703202200	76,371	38	720	600	1	031707203800	240,400
22	520	400	1	031705202200	97,910	40	520	400	1	031705204000	264,315
22	720	600	1	031707202200	103,682	40	720	600	1	031707204000	270,598
22	920	800	1	031709202200	135,927	40	920	800	1	031709204000	372,545
22	1320	1200	1	0317013202200	313,397	40	1320	1200	1	0317013204000	510,999
24	320	200	1	031703202400	88,950	45	520	400	1	031705204500	329,177
24	520	400	1	031705202400	105,719	50	570	450	1	031705705000	565,119
25	320	200	1	031703202500	105,719	52	570	450	1	031705705200	565,119
25	520	400	1	031705202500	114,471						

* 2 taglienti - 2 cutting edges



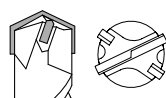
Caratteristiche

Speciali placchette in M.D. per resistere all'urto sulla nuova generazione dei martelli pesanti da 5 Kg ed oltre. Testa più snella ma compatta per la geometria dei taglienti, facile penetrazione nel cemento. Elica "vario flute", per una più rapida evacuazione dei materiali. Risultati: + 30% di efficienza nella foratura, maggiore durata dell'utensile, più resistenza agli impatti, minori vibrazioni, fori più profondi e precisi.

Features

Special cutting edges for a quick penetration into the hardest concrete. Large flute for a fast removal, strong reinforced web for a smooth cutting (no breakage, no vibrations).

Super PRO



4 taglienti
4 cutting edges

2 eliche ampie
nuovo disegno dei denti
2 wide flutes
new teeth design

Taglio ad altissimo rendimento, su martelli SDS-MAX, nel muro, cemento, calcestruzzo, pietre, grazie alla placchetta estremamente aggressiva. L'accurata geometria della testa favorisce il centraggio e la perfetta circolarità del foro. La placchetta snella, con taglienti laterali inclinati e gli ampi canali di rimozione dei detriti consentono una velocità di foratura elevatissima, mantenendo un basso tenore di vibrazioni sul martello. Per fori superiori a 400 mm, utilizzare un preforo di 150±200 mm dello stesso diametro.

Superprofessional cut for hammer drills with SDS-MAX chucking in concrete, masonry and natural stone. Smooth running, accurate hole, reduced vibrations due to its high quality.

PUNTE "DUST FREE" CON SISTEMA DI ASPIRAZIONE DELLA POLVERE

Special drill bits with dust suction system

03172

SDS PLUS

Con aspirazione polveri
With dust suction system



MADE IN GERMANY



Confezione
Packaging

Ø mm	L	l	pcs. pcs.	cod.	€ cad/each
12	330	200	1	031723301200	129,031
14	360	240	1	031723601400	136,381
16	360	240	1	031723601600	143,731
18	360	240	1	031723601800	172,320



Applicazioni Applications



Muro
Masonry



Calcestruzzo
armato
Reinforced
Concrete



Pietra
Natural Stones



Compatibili con qualsiasi aspiratore

la polvere viene incanalata nei fori e raccolta in un aspiratore collegato mediante l'adattatore in dotazione.

Compatible with any vacuum

dust is channeled into the holes and collected in a vacuum cleaner connected via the adapter provided.

Caratteristiche

- Ideale per effettuare fori nel cemento armato per i quali sia previsto l'inserimento di ancorante chimico, evita la lunga e laboriosa procedura di pulizia del foro garantendo un risultato ottimale (Avvertenza: per la sistemazione di tasselli, attenersi comunque sempre alle indicazioni del produttore dei tasselli stessi)
- Riduce la dispersione di polveri nell'ambiente di lavoro
- Permette una foratura più veloce ed efficiente grazie all'immediata rimozione del materiale di scarto che nelle punte tradizionali si interpone tra i taglienti e la superficie da forare
- Compatibile con qualsiasi aspiratore reperibile sul mercato (si raccomanda l'utilizzo di aspiratori in classe M per una più efficace riduzione delle polveri nell'ambiente di lavoro)
- La speciale forma della testa a quattro taglienti (per diametri ≤ 28mm) o a 2 taglienti con grandi fori di aspirazione (per diametri ≥ 28mm) evita l'inceppamento della punta anche nei lavori più gravosi di foratura del cemento armato.
- La speciale forma del gambo delle punte con diametro > 28 agevola la centratura del foro e ne migliora la maneggevolezza.

Features

- Ideal to work in to reinforced concrete for which the insertion of a chemical anchor is foreseen, this technology avoids the long and laborious cleaning procedure of the hole guaranteeing an optimal and faster result. (Warning: for the installation of dowels, always follow the manufacturer's instructions dowels themselves).
- It reduces the dispersion of dust in the working environment.
- It allows a faster and more efficient drilling due to the immediate removal of the debris which normally interposes between the cutting edges of the drill and the surface to be worked.
- Compatible with any vacuum cleaner available on the market (the use of class M vacuum cleaners is recommended for a more effective reduction of dust in the workplace)
- The head with 4 cutting edges (2 cutting edges for measures ≤ 28mm) avoids the jamming of the tip even in the most difficult jobs of drilling reinforced concrete.
- The special shape of the shank of the drills with a diameter > 28 facilitates the centering of the hole and improves its handling.

PUNTE "DUST FREE" CON SISTEMA DI ASPIRAZIONE DELLA POLVERE

Special drill bits with dust suction system

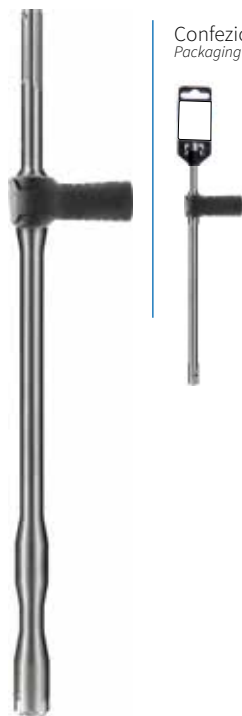
03172

SDS MAX

Con aspirazione polveri
With dust suction system



MADE IN GERMANY



Confezione
Packaging

Ø mm	L	l	pcs. 	cod.	€ cad/each
16	600	400	1	031726001600	300,539
18	600	400	1	031726001800	312,781
20	600	400	1	031726002000	325,035
22	600	400	1	031726002200	329,939
24	600	400	1	031726002400	351,166
25	600	400	1	031726002500	339,735
28	600	400	1	031726002800	380,500
28	900	700	1	031729002800	565,139
30	600	400	1	031726003000	400,525
30	900	700	1	031729003000	586,366
32	600	400	1	031726003200	410,350
32	900	700	1	031729003200	615,766
35	600	400	1	031726003500	430,500
35	900	700	1	031729003500	632,100



Applicazioni
Applications



Muro
Masonry



Calcestruzzo
armato
Reinforced
Concrete



Pietra
Natural Stones



Compatibili con qualsiasi aspiratore

la polvere viene incanalata nei fori e raccolta in un aspiratore collegato mediante l'adattatore in dotazione.

Compatible with any vacuum

dust is channeled into the holes and collected in a vacuum cleaner connected via the adapter provided.

ADATTATORI PER PUNTE "DUST FREE"

"DUST FREE" Connector to the dust aspirator



SDS PLUS



SDS MAX

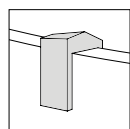
Attacco Attachment	cod.	€ cad/each
SDS PLUS	03172ADATTSDS	26,131
SDS MAX	03172ADATTMAX	27,766

CORONE PERFORTRICI PER EDILIZIA CON ATTACCO CONICO PER MARTELLI PESANTI

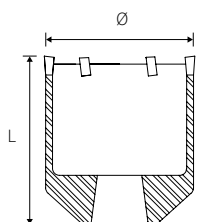
Hammer core bits with taper chucking

21120

Attacco conico - Uso intensivo Taper chucking - Intensive use



Confezione
Packaging



Attacco conico 1:8
1:8 taper attachment

Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



Pietre
Stones


Grandi rendimenti nel calcestruzzo, muro, pietre calcaree.

High performances in masonry- concrete, sand-lime brick, natural stone.

Uso rotopercolazione su trapani pesanti > 45 N e con potenza > 900W (fino a 1500W)

Hammer drill use > 45 N and electrical power > 900W


Punta pilota Pilot drill	cod.	Ø mm	€ cad/each
	21130110	12x135	11,664


Estrattore per punta pilota Drill drift	cod.	€ cad/each
	281580102	8,540

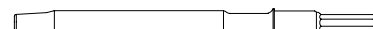
Ø corona core bit	L	Z n. denti tips	pcs. pcs.	cod.	€ cad/each
35	100	4	1	2112003500	54,775
40	100	5	1	2112004000	61,549
45	100	5	1	2112004500	72,135
50	100	6	1	2112005000	84,074
60	100	6	1	2112006000	86,226
66	100	7	1	2112006600	101,515
70	100	8	1	2112007000	112,995
80	100	8	1	2112008000	126,897
90	100	8	1	2112009000	145,024
100	100	10	1	2112010000	170,404
110	100	12	1	2112011000	187,330
125	100	12	1	2112012500	216,334
130	100	12	1	2112013000	267,086
150	100	14	1	2112015000	292,469




Asta porta corona senza asola
Shank without slot


SDS Max	cod.	L mm	€ cad/each
	21130211	250	61,267
	21130220	450	67,103
	21130225	600	81,325

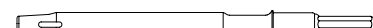
Millerighe Ø 19,3 mm Large spline shank	cod.	L mm	€ cad/each
	21130235	250	57,040
	21130245	600	77,507

HEX SW 13	cod.	L mm	€ cad/each
	21130255	250	57,040
	21130260	450	61,579
	21130265	600	77,507

Asta porta corona con asola
Shank with slot

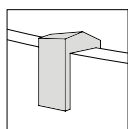
SDS Max	cod.	L mm	€ cad/each
	21130011	250	61,267
	21130020	450	67,103
	21130025	600	81,325

Millerighe Ø 19,3 mm Large spline shank	cod.	L mm	€ cad/each
	21130035	250	57,040
	21130040	450	61,579
	21130045	600	77,507

HEX SW 13	cod.	L mm	€ cad/each
	21130055	250	57,040
	21130060	450	61,579
	21130065	600	77,507

CORONE PERFORTRICI PER EDILIZIA CON FILETTO A MOLLA PER MARTELLI PESANTI SDS-MAX Hammer core bits with taper chucking

21122



Confezione
Packaging



Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



Pietre
Stones

**Uso rotopercolazione su trapani pesanti > 45 N
e con potenza > 900W (fino a 1500W)**

**Hammer drill use > 45 N
and electrical power > 900W**

Grandi rendimenti nel calcestruzzo, muro, pietre calcaree. Corona sempre smontabile grazie alla molla di accoppiamento.

High performances in masonry- concrete,
sand-lime brick, natural stone.
Easy removable

Attacco filettato con molla - Uso intensivo
With spring thread - Intensive use

Ø corona core bit	L mm	Z n. denti tips	pcs.	cod.	€ cad/each
40	100	5	1	2112204000	61,612
50	100	6	1	2112205000	84,723
60	100	6	1	2112206000	102,303
66	100	7	1	2112206600	120,906
70	100	8	1	2112207000	159,278
80	100	8	1	2112208000	162,760
90	100	8	1	2112209000	175,553
100	100	10	1	2112210000	191,825
110	100	12	1	2112211000	202,286
125	100	12	1	2112212500	249,955
150	100	14	1	2112215000	309,247



Asta porta corona
Shank

SDS Max	Con molla With spring	cod.	L mm	€ cad/each
		21130300	250	78,323
		21130305	450	100,867
		21130310	600	136,468

Molla di accoppiamento
Coupling spring

cod.	€ cad/each
21130316	1,105





Punta pilota
Pilot drill

cod.	ØxL mm	€ cad/each
21130315	12x135	9,993

Estrattore per punta pilota
Drill drift

cod.	ØxL mm	€ cad/each
21130317	9,5x100	4,745

Espositore corone perforatrici per edilizia con filetto a molla
Hammer core bits with spring thread set

Composizione Description	ØxL mm
	Ø 40-50-60-66 80-90-100 (1x)
	21130300 (3x) 21130305 (3x)
	21130315 (6x)
	21130316 (10x)

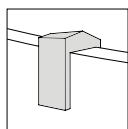
Art. 2116117
€ 1.513,268

29 pcs
Ø 40÷100

FRESE PERFORTRICI A TAZZA "IMPACT" PER EDILIZIA PER MARTELLI LEGGERI

Masonry impact core bits for light hammers

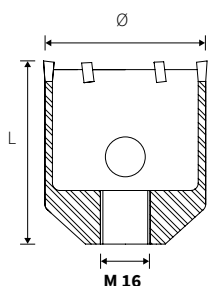
21110



Uso rotopercolazione su trapani e piccoli martelli sino 40 N
Rotary percussion use



Confezione
Packaging



Applicazioni
Applications



Muro
Masonry

Attacco filettato M16

M16 Threaded connection

Ø fresa hole cutter	L	Z n. denti tips	pcs.	cod.	€ cad/each
25	75	4	1	2111002500	27,040
30	75	4	1	2111003000	30,788
35	75	4	1	2111003500	36,885
40	75	4	1	2111004000	40,487
45	75	4	1	2111004500	42,987
50	75	6	1	2111005000	45,410
65	75	6	1	2111006500	56,444
80	75	6	1	2111008000	82,855
90	75	6	1	2111009000	88,455
100	75	8	1	2111010000	107,155
112	75	8	1	2111011200	123,341
125	80	10	1	2111012500	153,255
150	80	12	1	2111015000	206,826

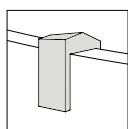
Ø ≤ 50 mm 600W
Ø > 50 mm 800W (3J)
F ≤ 40 N



Foratura a rotopercolazione su trapani e piccoli martelli nel calcestruzzo, cemento, pietre.
Massima profondità di foratura 60 mm.

Use with hammer drills up to 40 N in masonry and concrete (60 mm drill depth).

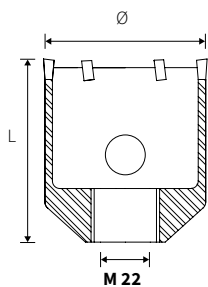
21111



Uso rotopercolazione su trapani e piccoli martelli sino 40 N
Rotary percussion use



Confezione
Packaging



Applicazioni
Applications



Muro
Masonry

Attacco filettato M22

M22 Threaded connection

Ø fresa hole cutter	L	Z n. denti tips	pcs.	cod.	€ cad/each
50	75	6	1	2111105000	44,048
55	75	6	1	2111105500	50,599
60	75	6	1	2111106000	52,211
65	75	6	1	2111106500	54,750
68	75	6	1	2111106800	65,267
80	75	6	1	2111108000	80,370
90	75	6	1	2111109000	85,802
100	75	8	1	2111110000	103,940
112	75	8	1	2111111200	119,641
125	80	10	1	2111112500	148,658
150	80	12	1	2111115000	200,621

Ø ≥ 50 mm 800W (3J)
F ≤ 40 N



Foratura a rotopercolazione su trapani e piccoli martelli nel calcestruzzo, cemento, pietre.
Massima profondità di foratura 60 mm.

Use with hammer drills up to 40 N in masonry and concrete (60 mm drill depth).

GAMBI PER FRESE PERFORATRICI A TAZZA "IMPACT"

Chucking shanks for "Impact" core bits

Gambo esagonale

Hex. shank



Gambo SDS PLUS

SDS PLUS shank



Gambo SDS MAX*

SDS MAX shank*




* Usare solo per materiali da costruzione leggeri come arenaria, mattoni forati. Non usare per cemento armato, calcestruzzo e pietre.

* Use with light building materials only.

cod.	Attacco filettato Thread attachment	Lunghezza tot. Overall length	€ cad/each
21115501	M 16 x 2	100 mm	14,009
21115502	M 16 x 2	220 mm	20,689
21115503	M 16 x 2	370 mm	31,817
21115521	M 22 x 2,5	100 mm	18,837
21115522	M 22 x 2,5	220 mm	27,993
21115523	M 22 x 2,5	370 mm	39,636

cod.	Attacco filettato Thread attachment	Lunghezza tot. Overall length	€ cad/each
21115504	M 16 x 2	100 mm	18,837
21115505	M 16 x 2	220 mm	27,993
21115507	M 16 x 2	370 mm	39,636
21115509	M 16 x 2	460 mm	62,309
21115524	M 22 x 2,5	100 mm	18,837
21115525	M 22 x 2,5	220 mm	27,993
21115527	M 22 x 2,5	370 mm	39,636
21115529	M 22 x 2,5	460 mm	62,309

cod.	Attacco filettato Thread attachment	Lunghezza tot. Overall length	€ cad/each
21115520	M 22 x 2,5	370 mm	74,467

Punta pilota Pilot drill	cod.	ØxL mm	€ cad/each
	21115506	8 x 120	5,074






ESPOSITORE FRESE "IMPACT" PER EDILIZIA

Masonry core bits set



Art. 21116112
€ 718,029

24 pcs
Ø 30 ÷ 100 mm

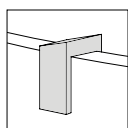
cod.	Attacco filettato Thread attachment					
21110	M 16		Ø	30	35	40
			pcs.	1	1	1
21111	M 22		Ø	50	65	80 90 100
			pcs.	1	1	1 1 1
21115501	(M 16)			L = 100 mm	N° 1 pc	
21115502	(M 16)		HEX 12	L = 220 mm	N° 1 pc	
21115521	(M 22)			L = 100 mm	N° 1 pc	
21115522	(M 22)			L = 220 mm	N° 1 pc	
21115504	(M 16)			L = 100 mm	N° 1 pc	
21115505	(M 16)		SDS PLUS	L = 220 mm	N° 1 pc	
21115524	(M 22)			L = 100 mm	N° 1 pc	
21115525	(M 22)			L = 220 mm	N° 1 pc	
21115506				Ø = 8 mm	N° 8 pcs	

FRESE PERFORTRICI A TAZZA CON TAGLIANTI IN METALLO DURO PER EDILIZIA

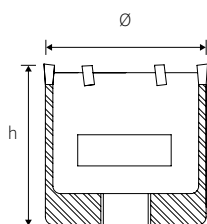
Carbide tipped hole cutters for masonry, rotation only

21015

MD



Confezione
Packaging



Ø fresa hole cutter	h altezza tazza height cup	n. denti n. tips	d gambo shank	pcs. pcs.	cod.	€ cad/each
16	40	2	10	1	2101501600	22,467
22	40	3	10	1	2101502200	23,919
25	40	3	10	1	2101502500	31,439
27	40	3	10	1	2101502700	32,543
30	40	4	10	1	2101503000	33,336
35	40	4	10	1	2101503500	36,238
38	40	5	10	1	2101503800	39,860
40	40	5	10	1	2101504000	42,750
45	40	5	10	1	2101504500	47,105
50	40	6	10	1	2101505000	50,728
55	40	6	12	1	2101505500	61,595
60	40	7	12	1	2101506000	67,401
65	40	7	12	1	2101506500	76,097
70	40	8	12	1	2101507000	81,148
80	40	9	12	1	2101508000	100,004
85	40	10	12	1	2101508500	119,100
100	40	11	12	1	2101510000	149,460
125	40	12	12	1	2101512500	192,667
150	40	15	12	1	2101515000	287,248

Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



Ceramica
Ceramics

Forano a sola rotazione calcestruzzo leggero, muro, piastrelle, ceramica, laminati plastici. Adatti per fori precisi a pavimento di porte blindate, fori per condotte, scatole di derivazione, etc...

Rotary use in masonry, tiles, light construction materials.

Utilizzo a rotazione
Rotary use only



Gambo
Arbor

cod.

Per frese
Fit hole cutters

d

M

€
cad/each

3 Pianetti / 3 Flats



21020100	Ø 16 ÷ 35	10	12x1,25	5,841
21020101	Ø 38 ÷ 150	12	16x1,5	17,210

Punta pilota
Pilot drill

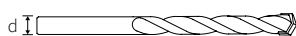
cod.

Per frese
Fit hole cutters

d

Ø
mm

€
cad/each



21020110	Ø 16 ÷ 50	5,85	6	4,469
21020111	Ø 55 ÷ 150	7,25	8	5,880

Prolunga 400 mm
Extension 400 mm

cod.

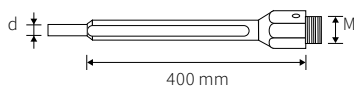
Per frese
Fit hole cutters

d

M

€
cad/each

3 Pianetti / 3 Flats



21020120	Ø 16 ÷ 50	12	12x1,25	33,340
21020121	Ø 55 ÷ 150	12	16x1,5	49,781



Art. 2103010
€ 590,227

12 pcs
Ø 22 - 25 - 27 - 30
35 - 38 - 40 - 45
50 - 55 - 60 - 65



Set frese a tazza per impiantisti, idraulici, etc.
Hole cutters set for journeymen and plumbers.

Art. 21030300
€ 331,405

8 pcs
Ø 16 - 22 - 25 - 27
30 - 35 - 40 - 50

Art. 21030301
€ 225,640

6 pcs
Ø 16 - 22 - 25 - 27
30 - 35

FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI PER MATERIALI EDILI DURI, GRES, PIASTRELLE, GRANITO, ETC.

Carbide grit hole saws, high quality

21105

MD

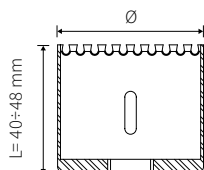
Per materiali edili duri
For hard building materials



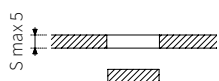
Confezione
Packaging



Inseri in carburo di tungsteno
Carbide grit



Spessore lavorabile
Material thickness workable



Art. 21135
Self
Disponibile su richiesta
On demand

Ø mm	Ø pollici / inch	d filetto / thread	pcs.	cod.	€ cad/each
16	5/8	UNF 1/2 x 20	1	2110501600	17,873
19	3/4		1	2110501900	17,873
20	-		1	2110502000	18,292
22	7/8		1	2110502200	18,292
25	1"		1	2110502500	18,292
29	1-1/8		1	2110502900	19,024
32	1-1/4	UNF 5/8 x 18	1	2110503200	20,140
35	1-3/8		1	2110503500	20,800
38	1-1/2		1	2110503800	22,263
44	1-3/4		1	2110504400	24,373
48	1-7/8		1	2110504800	24,373
51	2"		1	2110505100	24,373
54	2-1/8		1	2110505400	24,373
57	2-1/4		1	2110505700	24,735
60	2-3/8		1	2110506000	25,863
64	2-1/2		1	2110506400	25,863
70	2-3/4		1	2110507000	30,876
76	3"		1	2110507600	31,942
83	3-1/4		1	2110508300	32,988
86	3-3/8		1	2110508600	34,007
95	3-3/4		1	2110509500	34,380
102	4"		1	2110510200	34,380
114	4-1/2		1	2110511400	40,687

Utilizzo a rotazione
Rotary use only



R ≤ 1200 N/mm²

Applicazioni
Applications



Piastrelle
Mattoni durissimi
Tiles
Hard burnt brick



Pietre naturali
Marmo
Stones
Marble



Ceramica
Ceramics



Fibra di vetro
Laminati plastici
Fiberglass



Art. 21107301
€ 104,976

6 pcs
Art. 21105
Ø 16 - 20 - 22 - 25 - 32 - 35 mm (1x)

1 pcs
Art. 210706519
Ø 16÷29 N. 1 pc

1 pcs
Art. 210706546
Ø 32÷114 N. 1 pc

Per frese gambi / alberi
Fit hole cutters



Ø	cod.	€ cad/each
Ø 16 ÷ 29	210706519	13,338
Ø 32 ÷ 114	210706546	23,339

Punta pilota con placchetta in MD
Pilot drill



Ø	cod.	€ cad/each
Ø 7x80	21020112	13,116

FRESA A TAZZA MULTIPLA PER EDILIZIA IN CARBURO DI TUNGSTENO IN GRANI

Multiple sizes carbide grit hole saw

21108

Qualità standard
Standard quality

Applicazioni
Applications



Mattoni
brick



Confezione
Packaging



Ø mm	Ø pollici / inch	d filetto / thread	pcs.	cod.	€ cad/each
33-43-53-67-83		10	1	21108100	53,309

h = 60mm

FRESA A TAZZA A CORONA CONTINUA

PER IL TAGLIO DEL GRES PORCELLANATO E DEI MATERIALI EDILI DURISSIMI

Diamond drill bit and core drills with continuous edge for sandware and very strong building materials

21106

Attacco M14 per smerigliatrici angolari

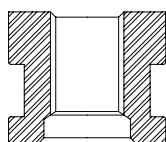
M14 connection for angle grinders



Confezione
Packaging



Matrice metallica altofondente brasata che trattiene i diamanti a grana medio-fine
The high-melting brazed bond keeps medium-fine grain diamonds



Attacco M14
speciale per smerigliatrici angolari
M14 shank
M14 shank to fit angular grinding machine

Applicazioni Applications



Grès porcellanato
Porcelain stoneware



Grès smaltato
Glazed stoneware



Grès
Stoneware



Marmo
Marble



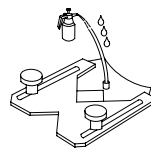
Piastrella standard
Standard tile

Ø mm	pollici inches	L	pcs. cod.	€ cad/each
*6	15/64	62	1 211060600	40,868
*8	5/16	62	1 211060800	41,574
*10	25/64	62	1 211061000	41,574
*12	15/32	62	1 211061200	43,516
*14	35/64	62	1 211061400	46,685
*16	5/8	62	1 211061600	48,472
*18	23/32	62	1 211061800	49,886
20	25/32	60	1 211062000	49,904
22	7/8	60	1 211062200	51,817
25	1"	60	1 211062500	56,481
28	1-1/16	60	1 211062800	62,292
30	1-3/16	60	1 211063000	67,042
32	1-1/4	60	1 211063200	71,585
35	1-3/8	60	1 211063500	78,338
40	1-9/16	60	1 211064000	89,635
45	1-49/64	60	1 211064500	100,684
50	2"	60	1 211065100	108,172
55	2-11/64	60	1 211065500	122,787
60	2-3/8	60	1 211066000	133,837
65	2-9/16	60	1 211066500	144,887
67	2-5/8	60	1 211066700	149,798
70	2-3/4	60	1 211067000	157,167
80	3-5/32	60	1 211068000	178,040
90	3-9/16	60	1 211069000	194,852
100	4"	60	1 2110610000	228,077

* Con cera vegetale all'interno / With internal coolant.



PRCD



Massima profondità di foratura 10 mm.
Velocità di rotazione consigliata 10.000-13.000 giri/min.
Maximum drilling depth 10 mm.
Recommended rotational speed 10,000-13,000 rpm.



Art. 21103315
€ 232,142

5 pcs
Ø 6 - 8 - 10
12 - 14 mm

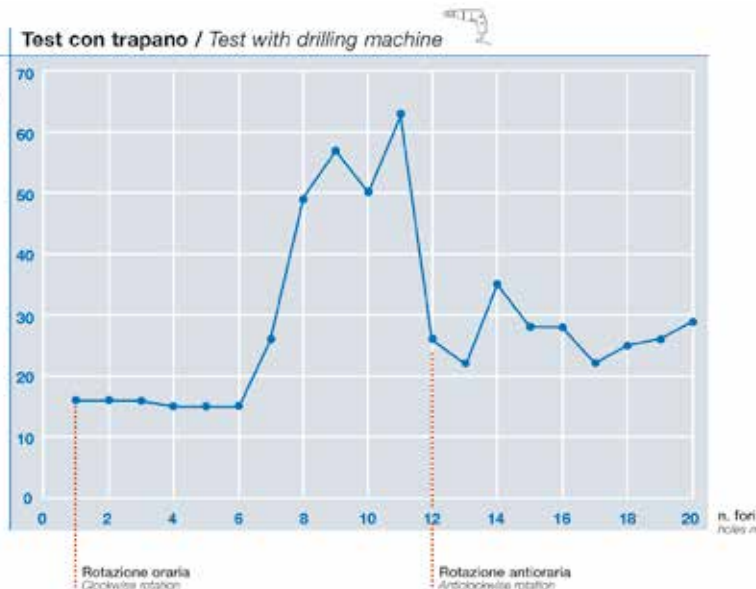


Art. 21103310
€ 627,479

6 pcs
Ø 22 - 35 - 40
45 - 50 - 67 mm

Prestazioni di una fresa diamantata di Ø 6 mm a corona continua nella foratura di una piastrella in gres porcellanato con raffreddamento ad acqua: invertendo periodicamente il senso di rotazione della fresa da orario ad antiorario si ravvivano i diamanti e la fresa continua a lavorare per un ciclo di vita utile più lungo. Nel grafico si mostra come, all'inversione del senso di rotazione, la fresa completa il foro con un tempo comparabile ai primi fori effettuati quando l'utensile era nuovo.

Performances of Ø 6 mm diamond core bit with continuous edge when water cooled cutting into sandware: if you cyclically change from clockwise to anti-clockwise rotation you can revive the diamonds thus assuring a longer tool life. Here below the graphics that shows you that, starting the anti-clockwise rotation, the tool can complete the hole briefly, just as it were new.



PUNTA DIAMANTATA A CORONA CONTINUA PER IL TAGLIO A SECCO E UMIDO DEL GRESPORCELLANATO E DI TUTTE LE PIASTRELLE

Diamond drill bit with continuous edge for dry cutting of sandware and very hard building materials

03122

Con cera vegetale refrigerante
With internal cooling system

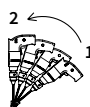
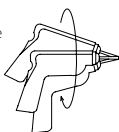


Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
5	9,5	70	1	031220500	43,128
6	9,5	70	1	031220600	43,128
8	9,5	80	1	031220800	43,128
10	9,5	80	1	031221000	43,128
12	9,5	80	1	031221200	47,921
14	12,5	80	1	031221400	59,246
16	12,5	80	1	031221600	65,826
18	12,5	80	1	031221800	73,508
20	12,5	80	1	031222000	81,188
22	12,5	80	1	031222200	88,867
25	12,5	80	1	031222500	100,936

Movimento circolare
Circular movement



Utilizzando trapani elettrici adottare il sistema di sicurezza PRCD
PRCD safety system
Système de sécurité PRCD
Dispositivo de seguridad PRCD



A secco
(refrigerante vegetale)
Dry cutting
(vegetable refrigerant)



Refrigerante vegetale
Internal cooling system

Matrice metallica altofondente brasata che trattiene i diamanti a grana medio-fine
The high-melting brazed bond keeps medium-fine grain diamonds

Applicazioni
Applications



Grès porcellanato
Porcelain stoneware



Grès smaltato
Glazed stoneware



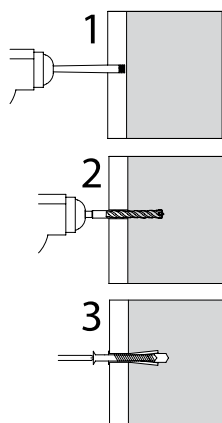
Grès
Stoneware



Marmo
Marble



Piastrella standard
Standard tile



Foratura a secco a sola rotazione. Funzionamento ottimale su pareti verticali (ottimizzato il sistema di refrigerazione interna). Si consiglia di non asportare la carota, che funge da tappo-dosatore per il refrigerante. **L'utilizzo con refrigerazione ad acqua allunga la vita utile dell'utensile.**

Dry cutting, rotation use only. Best performances on walls to better fit the internal cooling system. Do not remove the deposits: they work as a plug to stop the lubricant. **Water cooling extends the tool life cycle.**

Istruzioni d'uso: Iniziare il taglio inclinando la fresa di 30° per agevolare la centratura (oppure utilizzare l'apposita guida). Portarsi gradualmente in posizione verticale. Usare una velocità di taglio di 1000÷3000 giri/min in funzione del diametro decrescente della fresa. Durante il taglio applicare un lieve movimento circolare per agevolare l'evacuazione dei detriti. Invertendo periodicamente il senso di rotazione della fresa, si ravvivano i diamanti e si allunga la vita utile dell'utensile. Utilizzando trapani elettrici e raffreddando ad acqua, dotarsi di dispositivo PRCD.

Nel caso si voglia inserire un tassello⁽¹⁾, terminato il taglio nel gres⁽¹⁾, continuare con una punta per muro tradizionale a rotopercussione⁽²⁾.

Use tips: To achieve an easy centering, please start the cut at 30° (or use the proper guide) and then go on vertically. Use 1000÷3000 rpm as cutting speed, depending on the decreasing tool diameter. Please use a circular movement during cutting to better evacuate the deposits. For longer tool life, please use alternatively right and left hand rotation. When water cooling, always use PRCD safety system.

Diametro fresa
Cutter diameter

5÷7 8÷10 12÷14

Velocità giri/min.
RPM speed

3000 2000 1500



03121001



03121002



03121005



Art. 03120300
€ 938,134

15 pcs
Ø 5÷25 mm

Ø	5	6	8	10	12	14	16	18	20	22	25
pcs	2	2	2	2	1	1	1	1	1	1	1

Art. 03120301
€ 667,205

15 pcs
Ø 5÷25 mm

Ø	5	6	8	10	12	14	16	20
pcs	1	2	2	2	1	1	1	1



Art. 03120210
€ 128,487

3 pcs
Ø 6 - 8 - 10 mm

PUNTA DIAMANTATA A CORONA CONTINUA

PER IL TAGLIO A SECCO E UMIDO DEL GRESPORCELLANATO E DI TUTTE LE PIASTRELLE

Rotary percussion drill bits "max 4" with 4 cutting edges and 4 flutes for cutting concrete and building materials



03117

KERAMSTER

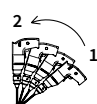
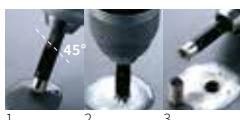


Confezione
Packaging



Matrice metallica altofondente brasata che trattiene i diamanti a grana medio-fine
The high-melting brazed bond keeps medium-fine grain diamonds

Ø mm	d	L	pcs.	cod.	€ cad/each
5	9,5	56	1	031170500	25,058
6	9,5	56	1	031170600	25,058
7	9,5	56	1	031170700	25,058
8	9,5	56	1	031170800	25,058
10	9,5	56	1	031171000	27,658
12	9,5	56	1	031171200	32,441
14	9,5	56	1	031171400	44,390



Utilizzando trapani elettrici adottare il sistema di sicurezza PRCD
PRCD safety system
Système de sécurité PRCD
Dispositivo de seguridad PRCD

FORATURA
AD ACQUA
Wet drilling



Art. 03120199
€ 83,896

3 pcs
Ø 6 - 8 - 10 mm



Art. 03120200
€ 108,307

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03120201
€ 139,448

5 pcs
Ø 5 - 6 - 8 - 10 - 12 mm



230x510x170



Retrodidattica
Back side

Art. 03120101
€ 1.026,182

36 pcs Ø 5÷14
Ø/pcs
5/8 - 6/8 - 7/3 - 8/6
10/5 - 12/3 - 14/3

Art. 03120100
€ 902,654

30 pcs Ø 5÷14
Ø/pcs
5/6 - 6/6 - 7/2 - 8/6
10/5 - 12/3 - 14/2

Diametro fresa Core drill diameter	5÷7	8÷10	12÷14	16÷25	28÷35	40÷50	60÷80
Velocità giri/min. Speed r.p.m.	3000	2000	1500	1000	600	400	300

Taglio preciso e pulito con trapani e con raffreddamento ad acqua in tutti i materiali edili difficili da lavorare: gres porcellanato, gres smaltato, marmo, granito, ceramica, ardesia, materiali compositi quali poliestere, fibre di vetro, ecc. Nel caso si voglia inserire un tassello, terminato il taglio nel gres, continuare con una punta per muro tradizionale a rotopercolazione. Per idraulici, installatori, elettricisti, ecc.

For an accurate and sharp cut with drilling machines of all hard materials: sandware, glazed sandstone, marble, granite, ceramics, slate, composites such as polyester, fiber glass, etc. Ideal for plumbers, journeymen, electricians, etc. Water cooling.

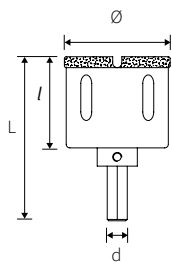
PUNTA DIAMANTATA A CORONA CONTINUA PER IL TAGLIO A SECCO E UMIDO DEL GRESPORCELLANATO E DI TUTTE LE PIASTRELLE

Rotary percussion drill bits "max 4" with 4 cutting edges and 4 flutes for cutting concrete and building materials

21104



Confezione
Packaging



Ø mm	d	L	l	pcs.	cod.	€ cad/each
16	12,5	90	50	1	211041600	59,677
18	12,5	90	50	1	211041800	59,677
20	12,5	90	50	1	211042000	64,870
22	12,5	90	50	1	211042200	71,359
25	12,5	90	50	1	211042500	79,792
28	12,5	90	50	1	211042800	88,224
30	12,5	90	50	1	211043000	94,714
32	12,5	90	50	1	211043200	97,305
35	12,5	90	50	1	211043500	114,169
40	12,5	90	50	1	211044000	128,445
45	12,5	90	50	1	211044500	144,013
50	12,5	90	50	1	211045000	158,288
60	12,5	90	50	1	211046000	186,824
65	12,5	90	50	1	211046500	201,100
67	12,5	90	50	1	211046700	210,929
70	12,5	90	50	1	211047000	223,678
80	12,5	90	50	1	211048000	245,205

Applicazioni Applications



Grès porcellanato
Porcelain stoneware



Marmo
Marble



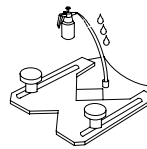
Grès smaltato
Glazed stoneware



Piastrella standard
Standard tile



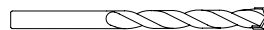
Grès
Stoneware



Utilizzando trapani elettrici adottare il sistema di sicurezza PRCD
PRCD safety system
Système de sécurité PRCD
Dispositivo de seguridad PRCD

FORATURA
AD ACQUA
Wet drilling

Punta pilota con placchetta in MD Pilot drill



cod.	Ø mm	€ cad/each
21020113	Ø 6x100	4,469

400x650x320



Art. 21103100
€ 1.251,668

21 pcs Ø 5÷35
Ø 5 - 6 - 7 - 8 - 10 - 12 - 14 (2x)
Ø 16 - 20 - 25 - 28 - 30 - 32 - 35 (1x)

Art. 21103101
€ 2.143,522

29 pcs Ø 5÷80
Ø 5 - 6 - 7 - 8 - 10 - 12 - 14
16 - 18 - 20 - 25 - 30 (2x)
Ø 35 - 50 - 60 - 65 - 80 (1x)

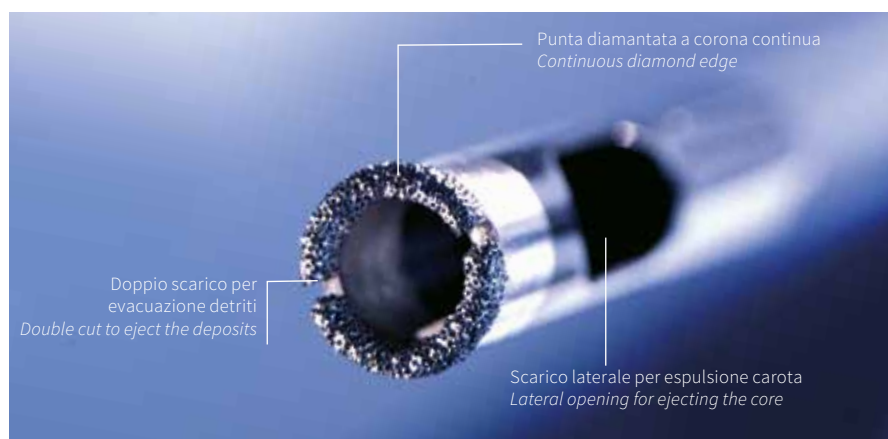


Art. 21103300
€ 535,883

6 pcs
Ø 16 - 22 - 25 - 28
30 - 35 mm

Si sconsiglia l'uso della punta pilota come centraggio nel gres porcellanato; la dima a ventosa consente un'agevole centratura e sicurezza di taglio.

We dissuade to use the pilot drill as centering into sandware; the suction guide allows an easy centering with a safe cut.



PUNTA DIAMANTATA A CORONA CONTINUA PER IL TAGLIO DI PIASTRELLE, GRES E DEI MATERIALI DURI

Diamond drill bit with continuous edge for sandware and strong building materials

03125

Qualità Standard
Standard quality

Matrice metallica elettrodepositata che trattiene diamanti a grana fine.

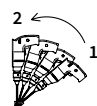
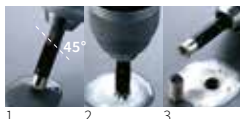
The electroplated bond keeps fine grain diamonds.



Confezione
Packaging



Ø mm	d mm	L	pcs.	cod.	€ cad/each
5	6	65	1	031250500	12,413
6	6	65	1	031250600	12,413
8	6	65	1	031250800	12,413
10	6	65	1	031251000	12,413
12	6	65	1	031251200	14,894
14	6	65	1	031251400	17,377



Utilizzando trapani elettrici adottare il sistema di sicurezza PRCD
PRCD safety system
Système de sécurité PRCD
Dispositivo de seguridad PRCD

FORATURA
AD ACQUA
Wet drilling

Applicazioni
Applications



Grès
Stoneware



Marmo
Marble



Piastrella standard
Standard tile

La corona diamantata a spessore sottile garantisce tagli senza sbavature. Questa caratteristica agevola i lavori di foratura su piastrelle dure in posa, dove sia necessario realizzare un foro pulito, senza scheggiare la piastrella.

The thin diamond continuous edge guarantees cuts without smudging. This feature facilitates the drilling work on hard tiles in laying, where it is necessary to make a clean hole, without splintering the tile.

Diametro fresa Core drill diameter	5÷7	8÷10	12÷14
Velocità giri/min. Speed r.p.m.	3000	2000	1500

DIMA A VENTOSA PER FORARE
Drilling suction cup

03121



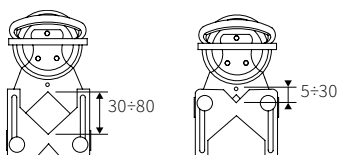
Art. 03121001
€ 39,861

7 fori / 7 holes
Ø 4 - 5 - 6 - 7
8 - 10 - 12 mm

DIMA A VENTOSA REGOLABILE PER FORARE
Drilling suction cup



Art. 03121002
€ 59,211



BOTTIGLIA PER REFRIGERAZIONE 1L
1L Cooling bottle



Art. 03121005
€ 22,772

DISCHI DIAMANTATI PER MATERIALI EDILI

Diamond discs for building materials

03405

Confezione
Packaging



Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



Pietre naturali
Natural stones



Piastrelle
Tiles

Corona Turbo
Turbo continuous rim

Ø mm	d	cod.	€ cad/each
115	22.2	03405115	11,992
230	22.2	03405230	56,344



03400

Confezione
Packaging



Applicazioni
Applications



Pietre naturali
Natural stones



Piastrelle
Tiles



Pietra - Granito
Natural stones granite

Corona continua
Continuous rim

Ø mm	d	cod.	€ cad/each
115	22.2	03400115	10,306
230	22.2	03400230	45,550



03410

Confezione
Packaging



Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



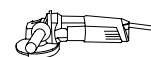
Pietre naturali
Natural stones



Pietra - Granito
Natural stones granite

Corona segmentata
Segmented rim

Ø mm	d	cod.	€ cad/each
115	22.2	03410115	11,300
230	22.2	03410230	55,844



PRCD

DISCHI DIAMANTATI PER MATERIALI EDILI

Diamond discs for building materials



Art. 03412100
€ 32,361

3 pcs

Composizione
 Description

cod. 03405115 TURBO N. 1
 cod. 03400115 CONTINUE N. 1
 cod. 03410115 SEGMENTED N. 1

DISCHI DIAMANTATI PER GRES PORCELLANATO, CERAMICA E PIASTRELLE IN GENERE

Diamond discs for sandware, tiles and ceramics

03515

Confezione
 Packaging



Corona Turbo - Speciale Gres porcellanato

Turbo continuous rim - Special Gres

Ø mm	d	cod.	€ cad/each
115	22.2	03515115	40,750



Applicazioni
 Applications



Grès porcellanato
 Porcelain stoneware



Grès smaltato
 Glazed stoneware



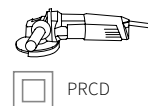
Grès
 Stoneware



Marmo
 Marble



Piastrella standard
 Standard tile



**SCALPELLI DI QUALITÀ PREMIUM
PER MARTELLI DEMOLITORI SDS-PLUS**
Premium quality chisels for SDS-PLUS hammers

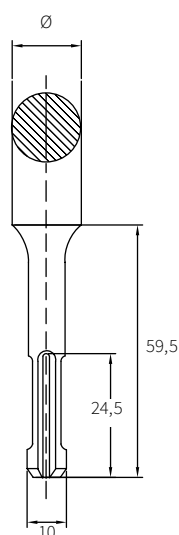
03221

AUTO AFFILANTE
Self-Sharpening

Qualità Premium
Premium performance



MADE IN ITALY



Confezione
Packaging



Confezione
Packaging



Scalpellini a punta Pointed chisels	L mm	Ø	cod.	€ cad/each
	250	14	0322102250	18,552

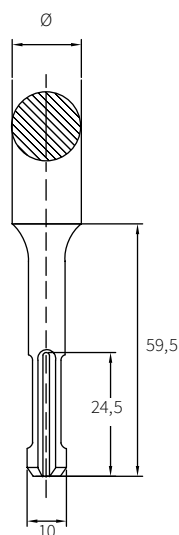
Scalpellini piatti Flat cold chisels	mm	L mm	Ø	cod.	€ cad/each
	20	250	14	0322106020250	18,552

03220

Alta Qualità
High performance



MADE IN ITALY



Scalpellini a punta Pointed chisels	L mm	Ø	cod.	€ cad/each
	250	14	0322002250	12,423

Scalpellini piatti Flat cold chisels	mm	L mm	Ø	cod.	€ cad/each
	20	250	14	0322001020250	12,423

Scalpellini piatti larghi Spade chisels	mm	L mm	Ø	cod.	€ cad/each
	40	250	14	0322003040250	18,780

25°	40	260	14	0322003040260	37,796
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	22	250	14	0322004022250	25,530
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	22	250	16	0322005022250	68,617
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Art. 03281100
€ 41,760

3 pcs

Composizione
Description

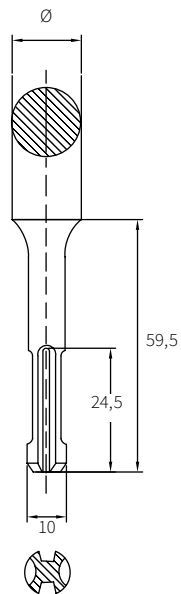
- 250
- 20x250
- 40x250

SCALPELLI DI QUALITÀ STANDARD
PER MARTELLI DEMOLITORI SDS-PLUS
Standard quality chisels for SDS-PLUS hammers


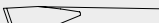
03222



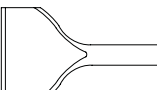
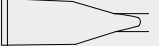
Qualità Standard
Standard quality

SDS
PLUS



Scalpellini a punta Pointed chisels	L mm	Ø	cod.	€ cad/each
	250	14	0322202250	8,232

Scalpellini piatti Flat cold chisels	 mm	L mm	Ø	cod.	€ cad/each
	20	250	14	0322201020250	8,232

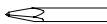


Scalpellini piatti larghi Spade chisels	 mm	L mm	Ø	cod.	€ cad/each
	40	250	14	0322203040250	12,466
25° 	75	160	14	032220775160	21,345
25° 	40	250	14	032220740250	13,289



Art. 03281120
€ 23,520

3 pcs

Composizione
Description

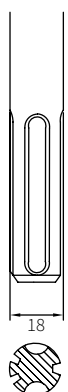
-  250
-  20x250
-  40x250

**SCALPELLI DI ALTA QUALITÀ
PER MARTELLI DEMOLITORI SDS-MAX**
High quality chisels for SDS-MAX hammers

03210



MADE IN
ITALY



Alta Qualità
High performance

Scalpellini a punta Pointed chisels	L mm	Ø	cod.	€ cad/each
	280	18	0321002280	18,289
	400	18	0321002400	20,448
	600	18	0321002600	28,577

Scalpellini piatti Flat cold chisels	mm	L mm	Ø	cod.	€ cad/each
	27	280	18	0321001027280	18,289
	27	400	18	0321001027400	20,448
	27	600	18	0321001027600	29,212

Scalpellini piatti larghi Spade chisels	mm	L mm	Ø	cod.	€ cad/each
	50	400	18	0321003050400	49,533
	80	300	18	0321003080300	60,964
	115	350	22	0321003115350	66,044
10°	50	300	18	0321003050300	53,343
	38	280	18	0321005038280	72,395
	38	280	18	0321006038280	190,512

Scalpellini a sgorbia Grooving chisels	mm	L mm	Ø	cod.	€ cad/each
	26	300	18	0321004026300	48,263
	32	300	18	0321004032300	66,044
	35	380	23	0321007035380	120,658




SCALPELLI DI QUALITÀ STANDARD
PER MARTELLI DEMOLITORI SDS-MAX
Standard quality chisels for SDS-MAX hammers




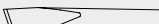
03212




Qualità Standard
Standard quality

SDS
MAX



Scalpellini a punta Pointed chisels	L mm	Ø	cod.	€ cad/each
	280	18	0321202280	11,054
	400	18	0321202400	13,524
	600	18	0321202600	19,169

Scalpellini piatti Flat cold chisels	 mm	L mm	Ø	cod.	€ cad/each
	25	280	18	0321201025280	11,054
	25	400	18	0321201025400	13,524
	25	600	18	0321201025600	19,169

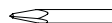


Scalpellini piatti larghi Spade chisels	 mm	L mm	Ø	cod.	€ cad/each
	50	400	18	0321203050400	23,520
	75	300	18	0321203075300	29,400



Art. 03281121
€ 48,451

3 pcs

Composizione
Description

-  400
-  25x400
-  50x400





**UTENSILI PER
TAGLIO DEL LEGNO**
WOODWORKING TOOLS

PUNTE ELICOIDALI PER LEGNO
A 4 TAGLIENTI CON ATTACCO HEX 1/4"
 HEX 1/4" shank drill bits for wood with 4 cutting edges

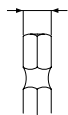
05054

C.V.

1/4 HEX

Alto rendimento - massima velocità
 High performance - max speed

1/4" HEX FORM E



Confezione
Packaging



Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

Ø mm	d	l	L	pcs. pcs.	cod.	€ cad/each
10	1/4	65	165	1	050541000	14,222
12	1/4	65	165	1	050541200	14,651
14	1/4	65	165	1	050541400	17,648
16	1/4	65	165	1	050541600	18,759
18	1/4	65	165	1	050541800	20,385
20	1/4	65	165	1	050542000	20,988
22	1/4	65	165	1	050542200	23,558
24	1/4	65	165	1	050542400	26,382
25	1/4	65	165	1	050542500	29,039
26	1/4	65	165	1	050542600	29,641
28	1/4	65	165	1	050542800	31,521
30	1/4	65	165	1	050543000	33,750
32	1/4	65	165	1	050543200	35,209

Per forare a grande rendimento il legno e i suoi derivati.

For drilling wood and its derivatives with high efficiency.



Art. 05055300
€ 161,747

6 pcs
Ø 16 - 18 - 20
22 - 25 - 32 mm

PUNTE ELICOIDALI PER LEGNO
A 2 TAGLIENTI, ALTA QUALITÀ HSS
 HSS wood working drills

05200

HSS

~DIN 7487

HSS - per legno duro
 HSS - for hard wood



HSS
HRC ≈ 63



Confezione
Packaging



Applicazioni
Applications



Legno duro
Hard wood



Multistrato
Multilayer



Truciolato
Chipboard



GFRP

Ø mm	d	l	L	pcs. pcs.	cod.	€ cad/each
3	3	33	61	1	052000300	1,221
4	4	43	75	1	052000400	1,496
5	5	52	86	1	052000500	1,773
6	6	57	93	1	052000600	2,395
7	7	69	109	1	052000700	2,948
8	8	75	117	1	052000800	4,056
9	9	81	125	1	052000900	4,743
10	10	87	133	1	052001000	5,884
11	10	94	142	1	052001100	7,314
12	10	101	151	1	052001200	9,309
13	10	101	151	1	052001300	10,806
14	10	108	160	1	052001400	12,911
15	10	114	169	1	052001500	15,916
16	10	120	178	1	052001600	18,330

Per forare legno, derivati, kevlar, fibre aramidiche senza sbavature.

For drilling wood, derivatives, kevlar, aramidic fibers without smudging.



Art. 05010206
€ 17,825

5 pcs
Ø 4 - 5 - 6
8 - 10 mm



Art. 05010207
€ 27,461

8 pcs
Ø 3 - 4 - 5 - 6
7 - 8 - 9 - 10 mm



Art. 05201 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI PER LEGNO CON PUNTA GUIDA A CENTRARE ED ELICHE AD ALTO SCARICO DEI TRUCIOLI. QUALITÀ SUPERPROFESSIONALE, SERIE LUNGA
HSS wood working drills

05210

C.V.

Alte prestazioni - L=245 mm
High performances - L=245 mm



C.V.
HRC = 55



Confezione
Packaging



Ø mm	d	l	L	pcs. pcs.	cod.	€ cad/each
6	6	160	245	1	052100600	22,552
8	8	160	245	1	052100800	23,750
10	10	160	245	1	052101000	25,433
12	10	160	245	1	052101200	26,831
14	10	160	245	1	052101400	29,346
16	10	160	245	1	052101600	32,437
18	10	160	245	1	052101800	37,160
20	10	160	245	1	052102000	42,412
22	13	160	245	1	052102200	47,833
24	13	160	245	1	052102400	54,892

Forano legno duro e dolce, stratificati, tutti i suoi derivati.
Speciali per mensole a scomparsa e travi in legno.

For soft and tough wood, plywood, non coated chipboards. Special for wood beams.

05212

C.V.

Alte prestazioni - L=400 mm
High performances - L=400 mm



C.V.
HRC = 55



Confezione
Packaging



Ø mm	d	l	L	pcs. pcs.	cod.	€ cad/each
6	6	160	400	1	052120600	28,272
8	8	160	400	1	052120800	30,810
10	10	160	400	1	052121000	32,649
12	10	250	400	1	052121200	36,007
14	10	250	400	1	052121400	41,448
16	10	250	400	1	052121600	50,215
18	10	250	400	1	052121800	59,026
20	10	250	400	1	052122000	67,758
22	13	250	400	1	052122200	76,292
24	13	250	400	1	052122400	85,401

Forano legno duro e dolce, stratificati, tutti i suoi derivati.
Speciali per mensole a scomparsa e travi in legno.

For soft and tough wood, plywood, non coated chipboards. Special for wood beams.

Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

PUNTE ELICOIDALI PER LEGNO A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE

Wood working drills, brad point

05001

C.V. ~ DIN 7487

Serie corta
Short serie



HRC ≈ 50



Confezione
Packaging



Ø mm	Ø inch	d	l	L	pcs.	cod.	€ cad/each
3	1/8	3	33	61	10	050010300	0,842
4	5/32	4	43	75	10	050010400	0,965
5	3/16	5	52	86	10	050010500	1,004
6	15/64	6	57	93	10	050010600	1,239
7	9/32	7	69	109	10	050010700	1,425
8	5/16	8	75	117	10	050010800	1,499
9	11/32	9	81	125	10	050010900	1,686
10	3/8	10	87	133	10	050011000	1,956
11	7/16	10	94	142	5	050011100	2,873
12	15/32	10	101	151	5	050011200	2,948
13	1/2	10	101	151	5	050011300	4,001
14	9/16	10	108	160	5	050011400	4,435
15	19/32	10	114	169	5	050011500	5,264
16	5/8	10	120	178	5	050011600	5,588
18	23/32	10	130	191	5	050011800	9,438
20	3/4	10	140	205	5	050012000	11,445
22	7/8	10	140	210	1	050012200	13,462
24	15/16	10	140	215	1	050012400	15,818
26	1.1/32	10	140	215	1	050012600	18,379
28	1.1/8	10	140	220	1	050012800	22,345
30	1.3/16	12	140	220	1	050013000	26,246

Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

Per forare legno e i suoi derivati.
For drilling wood.



Art. 05002 Self
Disponibile su richiesta
On demand



Art. 05010201
€ 7,765

5 pcs
Ø 4 - 5 - 6
8 - 10 mm



Art. 05010202
€ 11,519

8 pcs
Ø 3 - 4 - 5 - 6
7 - 8 - 9 - 10 mm



370x380x570

Art. 05010503
€ 643,060

137 pcs
Ø 3÷16 mm

05001

Ø	pcs
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10
12	5
14	5
16	3

05020

Ø	pcs
6x245	5
8x245	5
10x245	5
12x245	5
14x245	3

05025

Ø	pcs
6x400	5
8x400	5
10x400	5
12x400	3
14x400	3

PUNTE ELICOIDALI PER LEGNO A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE, SERIE LUNGA

Wood working drills, long serie



HRC ≈ 50



Confezione
Packaging



05020

C.V.

L=245 mm

Ø mm	d	l	L	pcs.	cod.	€ cad/each
6	6	160	245	1	050200600	6,752
7	7	160	245	1	050200700	6,752
8	8	160	245	1	050200800	6,752
9	9	160	245	1	050200900	7,497
10	10	160	245	1	050201000	7,497
11	10	160	245	1	050201100	9,738
12	10	160	245	1	050201200	9,738
13	10	160	245	1	050201300	11,434
14	10	160	245	1	050201400	11,434
15	10	160	245	1	050201500	13,272
16	10	160	245	1	050201600	13,272
18	10	160	245	1	050201800	16,872
20	10	160	245	1	050202000	21,004
22	13	160	245	1	050202200	26,272
24	13	160	245	1	050202400	29,244



Art. 05021 Self
Disponibile su richiesta
On demand

05025

C.V.

L=400 mm

Ø mm	d	l	L	pcs.	cod.	€ cad/each
6	6	230	400	1	050250600	9,335
8	8	230	400	1	050250800	11,956
10	10	230	400	1	050251000	12,373
12	10	230	400	1	050251200	13,872
13	10	230	400	1	050251300	17,315
14	10	230	400	1	050251400	17,315
15	10	230	400	1	050251500	20,443
16	10	230	400	1	050251600	20,443
18	10	230	400	1	050251800	27,368
20	10	230	400	1	050252000	33,000
22	13	230	400	1	050252200	43,510
24	13	230	400	1	050252400	55,700
26	13	230	400	1	050252600	62,400
28	13	230	400	1	050252800	65,764
30	13	230	400	1	050253000	82,598



Art. 05026 Self
Disponibile su richiesta
On demand

Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

Forano legno dolce, stratificati, tutti i suoi derivati. Speciali per mensole a scomparsa e travi in legno.

For soft wood, plywood, non coated chipboards. Special for wood beams.

PUNTE ELICOIDALI PER LEGNO A 2 TAGLIENTI CON ATTACCO HEX 1/4"

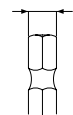
Wood working drills, 1/4 Q.C. shank

05009

C.V.

Attacco 1/4" HEX form E
1/4" HEX form E shank

1/4" HEX FORM E



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
3	1/4	31	80	1	050090300	1,840
4	1/4	42	92	1	050090400	1,989
5	1/4	53	106	1	050090500	2,061
6	1/4	57	113	1	050090600	2,210
8	1/4	75	137	1	050090800	2,429
10	1/4	87	153	1	050091000	2,816

Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

Per forare legno e i suoi derivati.

For drilling wood.



Art. 05010700
€ 14,740

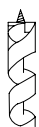
5 pcs
Ø 4 - 5 - 6
8 - 10 mm

PUNTE PER LEGNO PROFESSIONALI
A SPIRALE SINGOLA TIPO LEWIS, GAMBO ESAGONALE
Hexagonal shank auger bits, Lewis type, for professional use

Tipo Lewis - Per travi in legno
Lewis type - For wooden beams



HRC = 50



Confezione
Packaging



Applicazioni
Applications



Legno
Wood



Truciolato
Chipboard

05035		C.V.		L=155 mm			
Ø	d	l	L	pcs.	cod.	€	
mm	mm	mm	mm			cad/each	
6	6	90	155	1	050350600	7,771	
8	8	90	155	1	050350800	8,279	
10	10	90	155	1	050351000	9,714	
12	10	90	155	1	050351200	11,147	
14	10	90	155	1	050351400	12,373	
16	10	90	155	1	050351600	13,404	
18	13	90	155	1	050351800	15,345	
20	13	90	155	1	050352000	17,680	
22	13	90	155	1	050352200	18,814	
24	13	90	155	1	050352400	20,039	

05036		C.V.		L=235 mm			
Ø	d	l	L	pcs.	cod.	€	
mm	mm	mm	mm			cad/each	
6	6	160	235	1	050360600	8,800	
8	8	160	235	1	050360800	9,504	
10	10	160	235	1	050361000	11,147	
12	10	160	235	1	050361200	13,533	
14	10	160	235	1	050361400	15,359	
16	10	160	235	1	050361600	16,545	
18	13	160	235	1	050361800	18,996	
20	13	160	235	1	050362000	21,694	
22	13	160	235	1	050362200	22,009	
24	13	160	235	1	050362400	25,124	

05040		C.V.		L=300 mm			
Ø	d	l	L	pcs.	cod.	€	
mm	mm	mm	mm			cad/each	
6	6	220	300	1	050400600	11,754	
8	8	220	300	1	050400800	11,754	
9	9	220	300	1	050400900	12,758	
10	10	220	300	1	050401000	13,563	
11	10	220	300	1	050401100	14,975	
12	10	220	300	1	050401200	16,103	
13	10	220	300	1	050401300	15,756	
14	10	220	300	1	050401400	17,278	
15	10	220	300	1	050401500	18,839	
16	10	220	300	1	050401600	18,839	
18	13	220	300	1	050401800	21,157	
20	13	220	300	1	050402000	23,361	
22	13	220	300	1	050402200	26,445	
24	13	220	300	1	050402400	28,984	
25	13	220	300	1	050402500	31,982	
26	13	220	300	1	050402600	32,315	
28	13	220	300	1	050402800	36,749	
30	13	220	300	1	050403000	41,408	
32	13	220	300	1	050403200	51,217	

05042		C.V.		L=460 mm			
Ø	d	l	L	pcs.	cod.	€	
mm	mm	mm	mm			cad/each	
6	6	360	460	1	050420600	19,948	
8	8	360	460	1	050420800	20,469	
10	10	360	460	1	050421000	20,946	
12	10	360	460	1	050421200	25,967	
13	10	360	460	1	050421300	27,729	
14	10	360	460	1	050421400	27,795	
16	10	360	460	1	050421600	29,624	
18	13	360	460	1	050421800	33,191	
20	13	360	460	1	050422000	37,847	
22	13	360	460	1	050422200	41,005	
24	13	360	460	1	050422400	42,668	
25	13	360	460	1	050422500	46,613	
26	13	360	460	1	050422600	48,498	
28	13	360	460	1	050422800	55,058	
30	13	360	460	1	050423000	64,246	
32	13	360	460	1	050423200	77,312	
35	13	360	460	1	050423500	102,402	
40	13	360	460	1	050424000	136,314	


05044		C.V.		L=600 mm			
Ø	d	l	L	pcs.	cod.	€	
mm	mm	mm	mm			cad/each	
8	8	400	600	1	050440800	26,697	
10	10	400	600	1	050441000	32,671	
12	10	400	600	1	050441200	35,620	
13	10	400	600	1	050441300	41,525	
14	10	400	600	1	050441400	39,321	
16	10	400	600	1	050441600	41,016	
18	13	400	600	1	050441800	48,707	
20	13	400	600	1	050442000	51,145	
22	13	400	600	1	050442200	55,324	
24	13	400	600	1	050442400	55,690	
25	13	400	600	1	050442500	62,327	
26	13	400	600	1	050442600	65,531	
28	13	400	600	1	050442800	77,312	
30	13	400	600	1	050443000	88,106	
32	13	400	600	1	050443200	106,679	

Per forature di travi in legno. Foratura precisa e veloce grazie al centrino autoavvitante ed alla grande capacità di evacuazione dei trucioli.

For drilling wood beams and plankings.




Art. 05240300
€ 211,219

7 pcs 
L = 300 mm
Ø 8 - 10 - 12 - 14
16 - 18 - 20

Cassetta in legno o in metallo
Metal or wooden case



Art. 05240301
€ 234,688

6 pcs 
L = 460 mm
Ø 10 - 12 - 14
16 - 18 - 20

Cassetta in legno o in metallo
Metal or wooden case

PUNTE PER LEGNO PROFESSIONALI A SPIRALE SINGOLA TIPO LEWIS CON GAMBO SDS-PLUS SDS-PLUS shank auger bits, Lewis type




Confezione
Packaging




05037

SDS-PLUS - 235 mm

Ø mm	l	L	 pcs.	cod.	€ cad/each
8	160	235	1	050370800	9,818
10	160	235	1	050371000	11,552
12	160	235	1	050371200	13,404
14	160	235	1	050371400	15,230
16	160	235	1	050371600	16,872
18	160	235	1	050371800	18,814
20	160	235	1	050372000	22,322
22	160	235	1	050372200	23,378
24	160	235	1	050372400	26,258


05038

SDS-PLUS - 460 mm

Ø mm	l	L	 pcs.	cod.	€ cad/each
8	360	460	1	050380800	18,411
10	360	460	1	050381000	18,708
12	360	460	1	050381200	21,670
14	360	460	1	050381400	25,763
16	360	460	1	050381600	29,350
18	360	460	1	050381800	34,643
20	360	460	1	050382000	38,789
22	360	460	1	050382200	41,345
24	360	460	1	050382400	44,774




Art. 05240307
€ 219,042

SDS-PLUS
7 pcs 
L = 235 mm
Ø 8 - 10 - 12 - 14
16 - 18 - 20 mm

Cassetta in metallo
Metal case



Art. 05240308
€ 239,734

SDS-PLUS
6 pcs 
L = 460 mm
Ø 10 - 12 - 14
16 - 18 - 20 mm

**PUNTE ELICOIDALI PER LEGNO,
SERIE LUNGA, SPECIALI PER CASSEFORMI**
Wood working drills for plankings

Speciale per casseformi - L=400 mm
Special for plankings - L=400 mm

05030

C.V.



HRC ≈ 50



Applicazioni
Applications



Legno
Wood



Truciolato
Chipboard



Ferro
Iron



Art. 05031 Self
Disponibile su richiesta
On demand



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
6	5	100	400	1	050300600	9,061
8	7	100	400	1	050300800	11,629
10	9	100	400	1	050301000	12,034
12	10	100	400	1	050301200	14,864
14	10	100	400	1	050301400	17,655
16	10	100	400	1	050301600	20,223
18	13	100	400	1	050301800	28,879
20	13	100	400	1	050302000	35,295
22	13	100	400	1	050302200	46,535
24	13	100	400	1	050302400	47,940
26	13	100	400	1	050302600	64,095
28	13	100	400	1	050302800	70,185
30	13	100	400	1	050303000	79,455

Per forare legno e i suoi derivati, pannelli in gesso, pannelli isolanti.
Speciali per casseformi, installazioni, carpenteria.

For holes in beams, boards, soft metal sheets, special for journeyman's.


05033**C.V.****Speciale per casseformi - L=600 mm**
Special for plankings - L=600 mm

90°



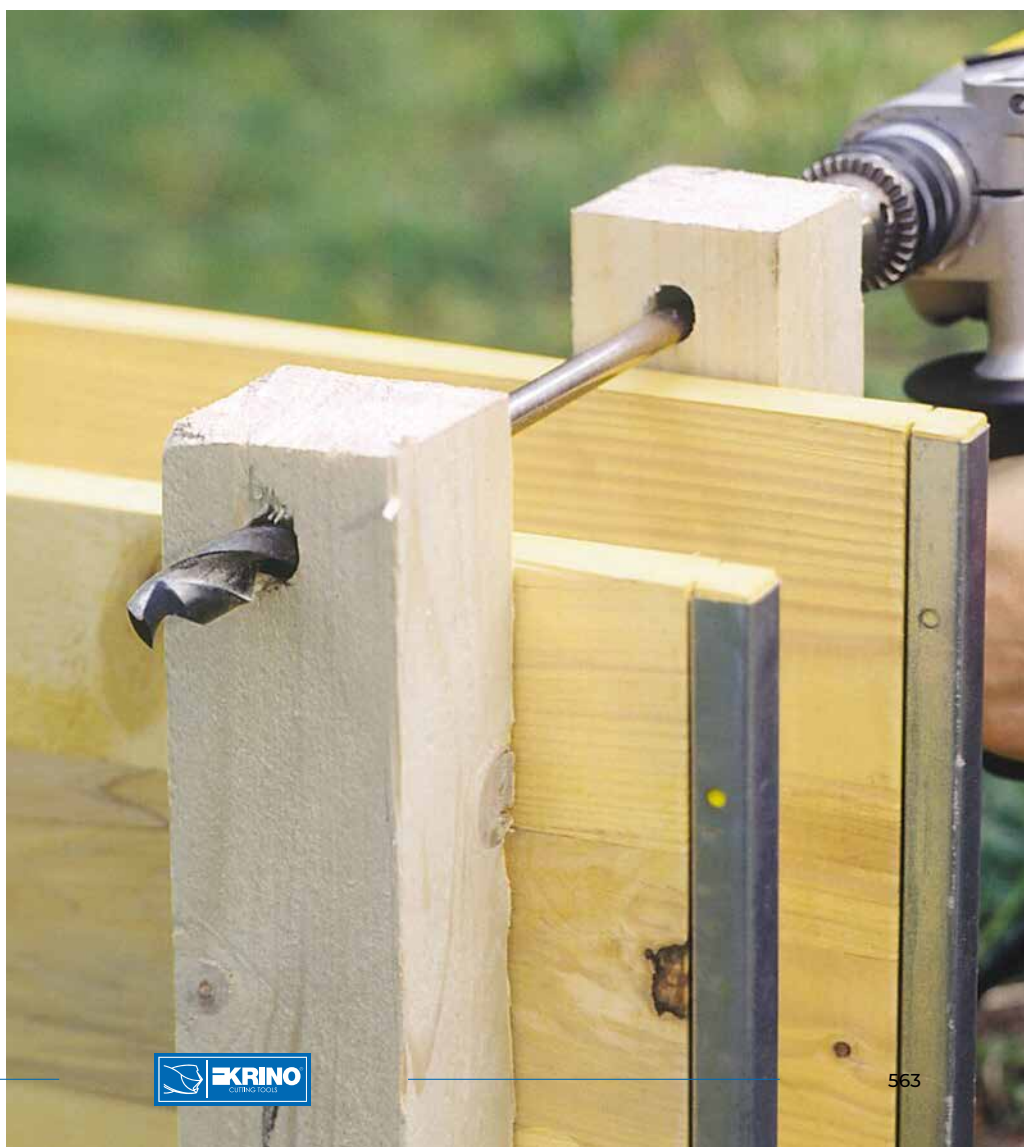
HRC ≈ 50

Confezione
PackagingApplicazioni
ApplicationsLegno
WoodTruciolato
ChipboardFerro
Iron**Art. 05034 Self**Disponibile su richiesta
On demand

Ø mm	d	l	L	 pcs.	cod.	€ cad/each
6	5	100	600	1	050330600	13,494
8	7	100	600	1	050330800	14,538
10	9	100	600	1	050331000	16,166
12	10	100	600	1	050331200	17,901
14	10	100	600	1	050331400	19,662
16	10	100	600	1	050331600	21,383
18	13	100	600	1	050331800	30,860
20	13	100	600	1	050332000	36,586
22	13	100	600	1	050332200	48,136
24	13	100	600	1	050332400	58,699
26	13	100	600	1	050332600	73,119
28	13	100	600	1	050332800	79,821
30	13	100	600	1	050333000	93,081

Per forare legno e i suoi derivati, pannelli in gesso, pannelli isolanti.
Speciali per casseformi, installazioni, carpenteria.

For holes in beams, boards, soft metal sheets, special for journeyman's.



MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE

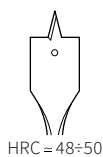
Hexagonal shank wood spade bits

05045

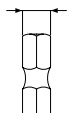
C.V.

1/4 HEX

Serie corta - L=150/160 mm
Short serie - L=150/160 mm



1/4" HEX FORM E



Confezione
Packaging



Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard



Art. 05047 Self
Disponibile su richiesta
On demand

Ø mm	d mm	L mm	pcs.	cod.	€ cad/each
6	6,35	150	5	050450600	3,078
8	6,35	150	5	050450800	3,078
9	6,35	150	5	050450900	3,104
10	6,35	150	5	050451000	3,104
11	6,35	150	5	050451100	3,143
12	6,35	150	5	050451200	3,143
13	6,35	150	5	050451300	3,324
14	6,35	150	5	050451400	3,324
15	6,35	150	5	050451500	3,429
16	6,35	150	5	050451600	3,429
18	6,35	150	5	050451800	3,677
19	6,35	150	5	050451900	3,807
20	6,35	150	5	050452000	3,807
22	6,35	150	5	050452200	4,328
24	6,35	150	5	050452400	4,667
25	6,35	150	5	050452500	4,876
26	6,35	160	5	050452600	5,254
28	6,35	160	5	050452800	5,477
30	6,35	160	5	050453000	5,803
32	6,35	160	5	050453200	6,088
34	6,35	160	5	050453400	6,962
35	6,35	160	5	050453500	7,223
36	6,35	160	5	050453600	7,223
38	6,35	160	5	050453800	7,366
40	6,35	160	5	050454000	7,627



Art. 05055100
€ 20,772

6 pcs
Ø 10 - 12 - 16
18 - 20 - 25 mm

PROLUNGA PER MECCHIE L = 300 mm

Spade bit extension

05046

L= 300 mm



Confezione
Packaging



Ø mm	d mm	L mm	pcs.	cod.	€ cad/each
13	6,35	300	1	05046	20,875

MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE

Hexagonal shank wood spade bits

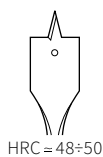
05048

C.V.

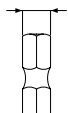
1/4 HEX

Serie lunga - L=400 mm

Long serie - L=400 mm



1/4" HEX FORM E



Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard



Confezione
Packaging



Ø mm	d mm	L mm	pcs.	cod.	€ cad/each
*6	4,50	400	5	050480600	9,818
8	6,35	400	5	050480800	10,991
10	6,35	400	5	050481000	11,461
12	6,35	400	5	050481200	13,143
14	6,35	400	5	050481400	14,317
16	6,35	400	5	050481600	14,995
18	6,35	400	5	050481800	15,307
20	6,35	400	5	050482000	15,789
22	6,35	400	5	050482200	16,299
24	6,35	400	5	050482400	16,636
25	6,35	400	5	050482500	17,106
26	6,35	400	5	050482600	18,320
28	6,35	400	5	050482800	18,320
30	6,35	400	5	050483000	19,126
32	6,35	400	5	050483200	19,635
34	6,35	400	5	050483400	20,000
35	6,35	400	5	050483500	20,795
36	6,35	400	5	050483600	21,279
38	6,35	400	5	050483800	21,643
40	6,35	400	5	050484000	22,464

*Attacco esagonale

*Hexagonal shank

Foratura nel legno dolce e legno duro, nei suoi derivati e nel cartongesso.
For drilling wood.

MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE

Hexagonal shank wood spade bits

05050

C.V.

Diametro regolabile

Adjustable diameter



Confezione
Packaging



Ø mix -max mm	d mm	pcs.	cod.	€ cad/each
Ø 14,5 ÷ 45	10	1	0505001	26,442
Ø 22 ÷ 75	10	1	0505002	32,295

Ricambio Spare part	Ø	pcs.	cod.	€ cad/each
	Ø 14,5 ÷ 45 (2pcs)	1	0505011	6,336
	Ø 22 ÷ 75 (2pcs)	1	0505012	7,131

Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard



Art. 05051 Self
Disponibile su richiesta
On demand

FRESE TIPO FORSTNER A DUE TAGLIENTI CON PUNTA DA CENTRO ED INCISORI PER FORI NEL LEGNO

Wood center bits, Forstner type

05065

HM

~ DIN 7483
Carbide

Per legno duro - uso intensivo
For hard wood - intensive use



Metallo duro
Carbide



Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
15	8	90	1	050651500	35,608
20	8	90	1	050652000	38,190
25	8	90	1	050652500	40,718
26	8	90	1	050652600	43,286
30	8	90	1	050653000	45,802
35	10	90	1	050653500	48,359

Applicazioni Applications



Legno duro e derivati
Hard wood

05067

C.V.

~ DIN 7483

Alto rendimento
High performance



HRC = 55



Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
15	8	90	1	050671500	21,044
18	8	90	1	050671800	21,317
20	8	90	1	050672000	23,103
22	8	90	1	050672200	23,535
24	8	90	1	050672400	23,770
25	8	90	1	050672500	23,770
26	8	90	1	050672600	23,770
28	8	90	1	050672800	23,977
30	8	90	1	050673000	23,977
35	10	90	1	050673500	24,591
40	10	90	1	050674000	27,263
45	10	90	1	050674500	29,754
48	10	90	1	050674800	29,754
50	10	90	1	050675000	34,670

Applicazioni Applications



Legno dolce e derivati
Mild wood



Art. 05100605
€ 98,712

5 pcs
Ø 15 - 20 - 25
30 - 35 mm

**FRESE TIPO FORSTNER A DUE TAGLIENTI
CON PUNTA DA CENTRO ED INCISORI PER FORI NEL LEGNO**
Wood center bits, Forstner type

05063

C.V.

~ DIN 7483



HRC = 48÷50



Confezione
Packaging



Applicazioni
Applications



Legno dolce e derivati
Mild wood

Ø mm	d	L	pcs.	cod.	€ cad/each
10	8	90	1	050631000	8,084
12	8	90	1	050631200	8,084
14	8	90	1	050631400	10,340
15	8	90	1	050631500	10,340
16	8	90	1	050631600	11,448
17	8	90	1	050631700	11,669
18	8	90	1	050631800	11,669
20	8	90	1	050632000	12,777
22	8	90	1	050632200	13,508
24	8	90	1	050632400	14,108
25	8	90	1	050632500	14,512
26	8	90	1	050632600	15,020
28	8	90	1	050632800	19,752
30	8	90	1	050633000	22,086
32	10	90	1	050633200	23,900
34	10	90	1	050633400	24,798
35	10	90	1	050633500	24,798
36	10	90	1	050633600	26,649
38	10	90	1	050633800	29,467
40	10	100	1	050634000	31,096
45	10	100	1	050634500	35,595
50	10	100	1	050635000	40,417



Art. 05100600
€ 84,619

5 pcs
Ø 15 - 20 - 25
30 - 35 mm

FRESE PER CERNIERE INVISIBILI

Wood center bits

Per cerniere invisibili
For invisible hinges



Confezione
Packaging



05058

C.V.

Ø mm	d	L	pcs.	cod.	€ cad/each
26	8	55	1	050582600	9,622
30	8	55	1	050583000	11,004
35	10	60	1	050583500	12,373

05060

HM

Carbide
edges

Ø mm	d	L	pcs.	cod.	€ cad/each
26	8	55	1	050602600	36,729
30	8	55	1	050603000	39,598
35	10	60	1	050603500	40,497

FRESE PER TASSELLI

Tenon dowel plug cutters

Per tasselli
Tenon dowel plug cutters

05077

C.V.

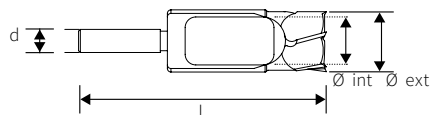
DIN 7489



Confezione
Packaging



Ø int mm	Ø ext mm	n. taglienti cutting edges	d	L	pcs.	cod.	€ cad/each
8	17,5	4	11	140	1	050770800	40,374
10	20,5	4	11	140	1	050771000	44,807
12	23,5	4	13	140	1	050771200	49,339
15	26,5	4	13	140	1	050771500	56,088
16	28	4	13	140	1	050771600	58,305
20	32	4	13	140	1	050772000	67,260
22	34	5	13	140	1	050772200	71,792
25	37	5	13	140	1	050772500	78,541
26	38	5	13	140	1	050772600	80,759
30	42	5	13	140	1	050773000	89,900
35	47	6	16	160	1	050773500	100,685
40	52	6	16	160	1	050774000	112,675



TRIVELLINO PROFESSIONALE PER LEGNO

Two flute gimlet

05076



Ø mm	L	pcs.	cod.	€ cad/each
2	110	1	050760200	3,456
3	115	1	050760300	3,572
4	135	1	050760400	4,094

Ø mm	L	pcs.	cod.	€ cad/each
5	140	1	050760500	5,568
6	160	1	050760600	8,111
7	170	1	050760700	8,111

SVASATORE 90° PER LEGNO

Wood center bits

05440

C.V.

90°

90°



Z=5

Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard



Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
8	8	50	1	05440500800	5,503
10	6	50	1	05440501000	6,011
12	8	50	1	05440501200	6,232
16	8	50	1	05440501600	6,859
20	8	50	1	05440502000	7,589

Foratura nel legno dolce e legno duro, nei suoi derivati e nel cartongesso.
For drilling wood.



Art. 05442 Self
Disponibile su richiesta
On demand

FRESA A 90° PER LEGNO

90° milling cutters

05072

C.V.

05070

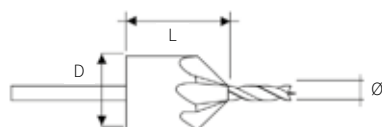
C.V.



Confezione
Packaging



Ø mm	D	L	pcs.	cod.	€ cad/each
3	16	25	1	050720300	11,589
4	16	25	1	050720400	11,589
5	16	25	1	050720500	11,704
6	16	25	1	050720600	11,931
7	16	25	1	050720700	12,205
8	20	25	1	050720800	13,695
10	20	25	1	050721000	14,332
12	20	25	1	050721200	15,846



Confezione
Packaging



Ø mm	D	L	pcs.	cod.	€ cad/each
3	16	25	1	050700300	11,202
4	16	25	1	050700400	11,202
5	16	25	1	050700500	11,202
6	16	25	1	050700600	11,202
7	16	25	1	050700700	11,202
8	20	25	1	050700800	11,202
9	20	25	1	050700900	11,202
10	20	25	1	050701000	11,202
11	20	25	1	050701100	11,202
12	20	25	1	050701200	11,202



Art. 05010205

€ 50,910

5 pcs

Ø 4 - 5 - 6 - 8 - 10 mm

SEGHE A TAZZA PER LEGNO CON LAME INTERCAMBIABILI IN ACCIAIO W.S.

Tool steel hole - saw kit for wood


05080

C.V.



Confezione
Packaging



Composizione Size	H mm	 pcs.	cod.	€ cad/each
7 pcs Ø 26 - 32 - 38 - 45 - 50 - 56 - 63	25	1	05080100	9,835
7 pcs Ø 26 - 32 - 38 - 45 - 50 - 56 - 63	50	1	05080101	11,806
5 pcs Ø 60 - 67 - 74 - 81 - 95	40	1	05080102	31,213

Foratura nel legno, nei suoi derivati e nel cartongesso.
For drilling wood

Applicazioni
Applications



Legno
Wood



Truciolato
Chipboard



Multistrato
Multilayer

KIT PER LEGNO E CARTONGESSO

Tool steel hole - saw kit for wood



Art. 05079600
€ 168,973

Ø 40÷200

Composizione

Description



pcs.

Sega regolabile a compasso con punta a centrare, due incisori e attacco hex per uso su trapani con mandrino a cremagliera

1

Adjustable compass saw with centering tip, two engravers and hex attachment to fit drill chuck with key

 Ø 4 - 5 - 6 - 8 - 10 mm

 Ø 4 - 5 - 6 - 8 - 10 mm

Campana protettiva antipolvere trasparente Ø 280 mm

1

Transparent dustproof protective bell Ø 280 mm

Matita

1

Pencil

Flessometro




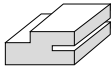













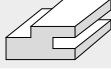






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Measuring tape

FRESE A PROFILO IN ACCIAIO DA UTENSILE PER TRAPANI E FRESATRICI

Tool bits for power drills

05400
C.V.

			cod.	d	Ø mm	pcs.	€ cad/each
	Fresa a mortasare <i>Straight bit</i>		05400100	8	6	1	9,896
	Sega circolare <i>Slotting saw</i>		05400170	8	50	1	11,461
	Frese per incastri <i>Tongue cutter</i>		05400110	8	30	1	12,400
	Fresa conica 45° <i>45° Chamfering bit</i>		05400180	8	35	1	12,126
	Fresa cilindrica per spianare e levigare <i>Cylindrical cutter</i>		05400120	8	25	1	12,400
	Frese a raggio convesso <i>Round cutter</i>		05400190	8	35	1	12,126
	Frese per profili tondi <i>Rounding off cutter</i>		05400130	8	25	1	12,400
	Frese a raggio concavo <i>Round cutter</i>		05400200	8	35	1	12,126
	Frese per scanalature <i>Flute cutter</i>		05400140	8	35	1	12,400
	Frese a raggio convesso esterno <i>Beading cutter</i>		05400210	8	35	1	12,777
	Frese per intagli <i>Slotting cutter</i>		05400150 05400160	8	35 S.2,5 35 S.1,5	1	7,301 7,301
	Frese a raggio concavo <i>Beading cut</i>		05400220	8	35	1	12,777

Profilatura nel legno dolce e duro su trapani montati su supporto o su fresatrici.
Tool steel end mills for use in power drills with drill stand or with milling machines, for soft and medium hard wood.

FRESE E RASPE IN ACCIAIO DA UTENSILE PER TRAPANI E FRESATRICI

Tool bits for power drills

05430
05432

		applicazioni applications	cod.	d	Ø mm	pcs.	€ cad/each
	Raspa cilindrica <i>Cylindrical rasp</i>		05430100	6	15	1	5,568
	Raspa cilindrica a testa semisferica <i>Cylindrical rasp</i>		05430110	6	13	1	5,815
	Raspa conica <i>Conical rasp</i>		05430120	6	6/15	1	5,737
	Raspa cilindrica <i>Cylindrical rasp</i>	 	05432100	6	15	1	5,254
	Raspa conica <i>Conical rasp</i>	 	05432110	6	6/15	1	5,346



Art. 05450201
€ 42,309

5 pcs



ACCESSORI

ACCESSORIES

MANDRINI AUTOSERRANTI PER ELETTROUTENSILI

Keyless drill chucks for portable power drills

28031



Confezione
Packaging



cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2803140	1÷13	1/2x20 UNF	100	1	92,512



Con ghiera di bloccaggio
With ring lock system

28051



Camicia
metallica
Metal sleeve



Griffe in
metallo duro
Carbide jaws



Confezione
Packaging

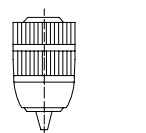


cod.	capacità sizes mm	attacco attachment	l	L	pcs.	€ cad/each
2805140	1,5÷13	1/2x20 UNF	-	65	1	57,624



Uso intensivo
Intensive use

28007



Camicia
metallica
Metal sleeve



Griffe in
metallo duro
Carbide jaws



Confezione
Packaging



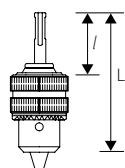
cod.	capacità sizes mm	attacco attachment	l	L	pcs.	€ cad/each
2800730	1,5÷13	SDS PLUS	50	115	1	61,152



Uso intensivo
Intensive use

28009

DIN 6349



Camicia
metallica
Metal sleeve



cod.	capacità sizes mm	attacco attachment	l	L	chiave key	pcs.	€ cad/each
2800930	1÷13	SDS	52	115	-	1	39,482

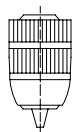


Display da banco incluso
Acquistando 5 pcs
Table display included
by purchasing 5 pcs

MANDRINI AUTOSERRANTI PER ELETTROUTENSILI

Keyless drill chucks for portable power drills

28053



Camicia
metallica
Metal sleeve



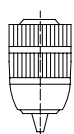
Confezione
Packaging



cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2805330	1,5÷13	3/8x24 UNF	75	1	35,413
2805340	1,5÷13	1/2x20 UNF	75	1	35,413



28055



Camicia
metallica
Metal sleeve



Confezione
Packaging

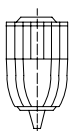


Griffe in
metallo duro
Carbide jaws

cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2805540	1,5÷13	1/2x20 UNF	75	1	41,236



28054



Camicia
plastica
Plastic sleeve



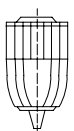
Confezione
Packaging



cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2805410	1 ÷ 10	3/8x24 UNF	64	1	23,608
2805420	1 ÷ 10	1/2x20 UNF	64	1	23,608
2805430	1,5 ÷ 13	3/8x24 UNF	75	1	25,573
2805440	1,5 ÷ 13	1/2x20 UNF	75	1	25,573



28058



Camicia
plastica
Plastic sleeve



Confezione
Packaging



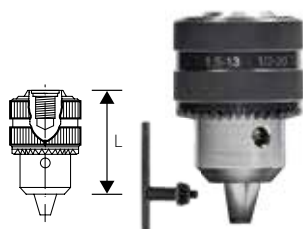
cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2805810	0,5÷10	3/8x24 UNF	61	1	15,228
2805820	0,5÷10	1/2x20 UNF	61	1	15,228
2805830	2÷13	3/8x24 UNF	72	1	18,274
2805840	2÷13	1/2x20 UNF	72	1	18,274



**MANDRINI A CREMAGLIERA PER ELETTROUTENSILI PORTATILI
E PER MACCHINE UTENSILI, COMPLETI DI CHIAVE, DIN 6349**
Keyless chucks for portable power tools, key chuck included

28004

Uso intensivo
Intensive use



Confezione
Packaging

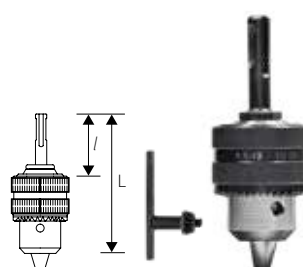


cod.	capacità sizes mm	attacco attachment	L	chiave key	pcs.	€ cad/each
2800440	2-13	1/2x20 UNF	57	S2	1	39,984



28007

Uso intensivo
Intensive use



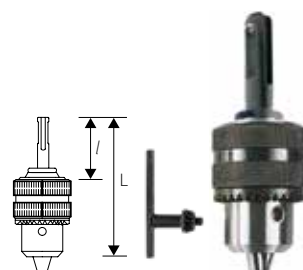
Confezione
Packaging



cod.	capacità sizes mm	attacco attachment	l	L	chiave key	pcs.	€ cad/each
2800710	2-13	SDS-PLUS	50	107	S2	1	43,512



28009



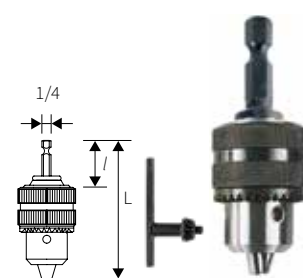
Confezione
Packaging



cod.	capacità sizes mm	attacco attachment	l	L	chiave key	pcs.	€ cad/each
2800910	1,5 -13	SDS	52	107	S2	1	16,885



Display da banco incluso
Acquistando 5 pcs
Table display included
by purchasing 5 pcs



Confezione
Packaging



cod.	capacità sizes mm	attacco attachment	l	L	chiave key	pcs.	€ cad/each
2800920	1,5 -13	1/4" HEX FORM E	28	84	S1	1	16,292

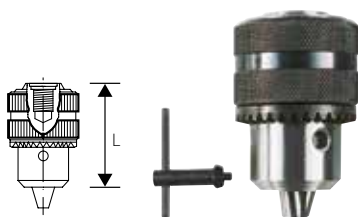



Display da banco incluso
Acquistando 5 pcs
Table display included
by purchasing 5 pcs



**MANDRINI A CREMAGLIERA PER ELETTROUTENSILI PORTATILI
E PER MACCHINE UTENSILI, COMPLETI DI CHIAVE, DIN 6349**
Keyless chucks for portable power tools, key chuck included

28001



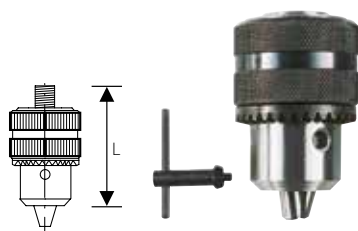
cod.	capacità sizes mm	attacco attachment	L	chiave key	pcs. 	€ cad/each
2800110	1÷10 R.	3/8x24 UNF	62	S 1	1	13,773
2800120	1÷10 R.	1/2x20 UNF	62	S 1	1	13,773
2800130	1,5÷13 R.	3/8x24 UNF	78	S 2	1	15,279
2800140	1,5÷13 R.	1/2x20 UNF	78	S 2	1	14,230
2800160	3÷16 R.	1/2x20 UNF	87	S 3	1	20,152
2800150	3÷16 R.	5/8x16 UNF	87	S 3	1	31,944




Display da banco incluso
Acquistando 5 pcs
Table display included
by purchasing 5 pcs



28002

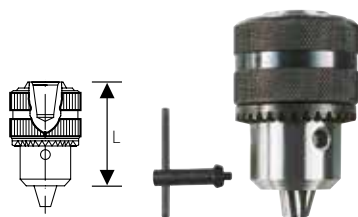



cod.	capacità sizes mm	attacco attachment	L	chiave key	pcs. 	€ cad/each
2800210	1-10	3/8x24 UNF	74	S 1	1	17,055
2800220	1-10	1/2x20 UNF	74	S 1	1	17,055
2800230	1,5-13	3/8x24 UNF	89	S 2	1	18,916
2800250	3-16	5/8x16 UNF	99	S 3	1	30,804

Confezione
Packaging



28003



cod.	capacità sizes mm	attacco attachment	L	chiave key	pcs. 	€ cad/each
2800310	1-10	B 12	62	S 1	1	16,399
2800320	1,5-13	B 16	78	S 2	1	18,189
2800325	3-16	B 16	87	S 3	1	29,620
2800330	3-16	B 18	87	S 3	1	29,620

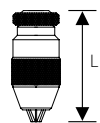
Confezione
Packaging



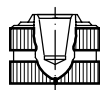
**MANDRINI AUTO-SERRANTI DI PRECISIONE
PER TRAPANI A COLONNA E MACCHINE UTENSILI**
Industrial quality keyless drill chucks

28035

Uso intensivo - massima precisione
Intensive use - max precision



Confezione
Packaging

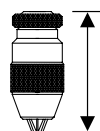


cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2803540	1-16	B16	95	1	186,984

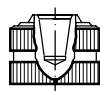


28034

Massima precisione
Max precision



Confezione
Packaging

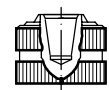
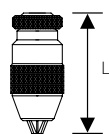


cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2803410	1÷10	B 12	70	1	90,255
2803430	1÷13	B 16	90	1	97,026
2803440	1÷16	B 16	103	1	110,564
2803450	1÷16	B 18	105	1	110,564
2803460	5÷20	B 22	124	1	110,564



**MANDRINI AUTO-SERRANTI DI PRECISIONE
PER TRAPANI A COLONNA E MACCHINE UTENSILI**
Industrial quality keyless drill chucks

28032



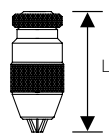
Confezione
Packaging



cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2803210	1÷10	B 12	86	1	59,578
2803220	1÷10	B 16	86	1	59,578
2803229	1÷13	B 12	102	1	64,163
2803230	1÷13	B 16	102	1	64,163
2803231	1÷13	B 18	108	1	64,163
2803240	1÷16	B 16	108	1	72,912
2803250	1÷16	B 18	108	1	72,912



28030



Confezione
Packaging




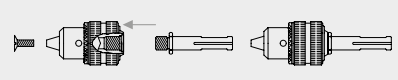










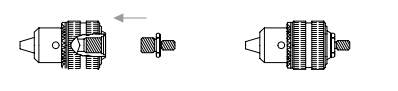

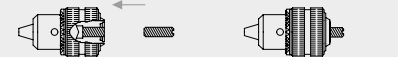
cod.	capacità sizes mm	attacco attachment	L	pcs.	€ cad/each
2803010	1÷10	3/8x24 UNF	86	1	58,661
2803020	1÷10	1/2x20 UNF	86	1	58,661
2803030	1÷13	3/8x24 UNF	102	1	65,432
2803040	1÷13	1/2x20 UNF	102	1	65,432
2803050	1÷16	1/2x20 UNF	102	1	77,280
2803060	1÷16	5/8X16 UNF	102	1	77,280



RACCORDI DI ADATTAMENTO PER MANDRINI

Mandrel adapter SDS PLUS-1/2 UNF

28186


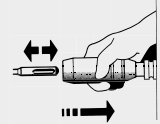
attacco attachment			cod.	pcs.	€ cad/each		Confezione Packaging
SDS - PLUS		1/2 x 20 UNF	28186100	5	12,686		
1/4 Q.C.		1/2 x 20 UNF	28186201	5	9,733		
		M6	28186101	5	0,953		
1/4 Q.C.		3/8 x 24 UNF	28186200	1	9,022		
1/2 x 20 UNF		3/8 x 24 UNF	28186204	1	7,902		
1/2 x 20 UNF		3/8 x 24 UNF	28186203	1	7,902		
3/8 x 24 UNF		3/8 x 24 UNF	28186205	1	4,304		

ADATTATORE A CAMBIO RAPIDO SDS-MAX / SDS-PLUS

SDS-MAX / SDS-PLUS adapter

03184



			cod.	L	€ cad/each	
SDS-MAX		SDS-PLUS	03184101	220	88,211	

CHIAVI PER MANDRINI A CREMAGLIERA

Chucks keys

28010



Confezione
Packaging



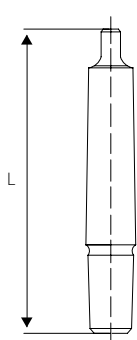
cod.	tipo / sizes DIN	pcs.	€ cad/each
2801009	S1	1	2,959
2801010	S2	1	4,094
2801020	S3	1	5,359

ATTACCHI CONICI MORSE PER MANDRINI, TEMPRATI E RETTIFICATI

Taper drill chuck arbors

28160

Cono esterno
External Morse
DIN 228



Cono DIN 238
per mandrino
Morse DIN 228
for chuck



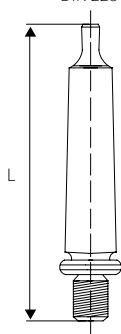
Confezione
Packaging



cono morse morse taper	attacco conico mandrino drill chuck taper	L	cod.	€ cad/each
DIN 228				
1	B10	86	281600110	12,961
1	B12	89	281600112	12,961
1	B16	99	281600116	12,961
1	B18	99	281600118	12,961
2	B10	105	281600210	16,220
2	B12	105	281600212	16,220
2	B16	112	281600216	16,220
2	B18	119	281600218	16,220
2	B22	130	281600222	16,220
3	B12	127	281600312	22,922
3	B16	134	281600316	22,922
3	B18	140	281600318	22,922
3	B22	147	281600322	22,922
3	B24	157	281600324	22,922
4	B16	157	281600416	35,842
4	B18	164	281600418	35,842
4	B22	176	281600422	35,842
4	B24	186	281600424	35,842
5	B16	198	281600516	53,588
5	B18	198	281600518	53,588
5	B22	207	281600522	53,588
5	B24	217	281600524	53,588

28165

Cono esterno
External Morse
DIN 228



Per mandrino
For chuck



Confezione
Packaging



cono morse morse taper	attacco conico mandrino drill chuck taper	L	cod.	€ cad/each
DIN 228				
2	3/8x24 UNF	95	28165023/8	21,577
2	1/2x20 UNF	110	28165021/2	21,577
2	5/8x16 UNF	135	28165025/8	26,794
3	3/8x24 UNF	115	28165033/8	29,609
3	1/2x20 UNF	125	28165031/2	29,609
3	5/8x16 UNF	150	28165035/8	29,609

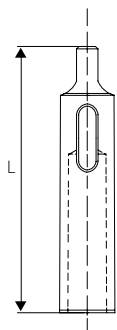
BUSSOLE DI RIDUZIONE PER CONI MORSE, TEMPRATE E RETTIFICATE INTERNAMENTE ED ESTERNAMENTE

Hardened and ground morse taper sleeve

28150

DIN 2185

Cono esterno
External Morse
DIN 228



Cono interno
Internal Morse
DIN 228



Confezione
Packaging



cono morse morse taper DIN 228		L	cod.	€ cad/each
esterno external	interno internal			
1	0	80	281500100	18,044
2	1	92	281500201	16,220
3	1	99	281500301	19,740
3	2	112	281500302	19,740
4	1	124	281500401	26,584
4	2	124	281500402	26,584
4	3	140	281500403	26,584
5	1	156	281500501	58,946
5	2	156	281500502	58,946
5	3	156	281500503	58,946
5	4	171	281500504	58,946
6	4	219	281500604	104,358
6	5	219	281500605	104,358

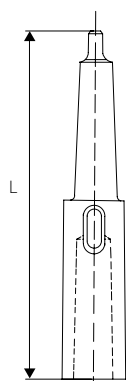
PROLUNGHE PER UTENSILI CONO MORSE, TEMPRATE E RETTIFICATE INTERNAMENTE ED ESTERNAMENTE

Morse taper sleeve extension, hardened and ground internally and externally

28154

DIN 2187

Cono esterno
External Morse
DIN 228



Cono interno
Internal Morse
DIN 228



Confezione
Packaging



cono morse morse taper DIN 228		L	cod.	€ cad/each
esterno external	interno internal			
1	1	145	281540101	48,842
1	2	160	281540102	51,840
2	1	160	281540201	39,258
2	2	175	281540202	50,771
2	3	196	281540203	65,361
3	1	175	281540301	53,300
3	2	194	281540302	53,300
3	3	215	281540303	72,480
3	4	240	281540304	111,685
4	1	200	281540401	111,685
4	2	215	281540402	84,619
4	3	240	281540403	84,619
4	4	265	281540404	111,685
4	5	300	281540405	157,945
5	1	232	281540501	164,998
5	2	247	281540502	149,484
5	3	268	281540503	145,258
5	4	300	281540504	117,748
5	5	335	281540505	183,331
6	1	294	281540601	261,402
6	2	309	281540602	342,372
6	3	330	281540603	342,372
6	4	355	281540604	342,372
6	5	390	281540605	350,911

ESTRATTORI PER UTENSILI CON CONO MORSE
DIN 228 IN ACCIAIO TRATTATO
Ejector drifts

28158

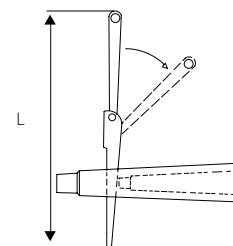
DIN 317



Confezione
Packaging



cono morse <i>morse taper</i>	L	cod.	€ cad/each
1-2	140	281580102	8,540
3	190	281580300	13,260
4	225	281580400	19,974
5-6	265	281580506	27,497



28158

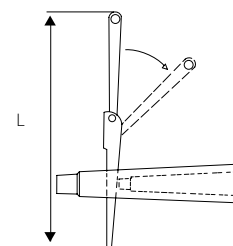
DIN 318 SEMIAUTOMATICO



Confezione
Packaging



cono morse <i>morse taper</i>	L	cod.	€ cad/each
1-2-3	320	28158A0103	85,596
4-5-6	380	28158A0406	104,358



Pasta lubrificante per il taglio
Cutting paste



Art. 4100401
€ 12,973

Olio da taglio minerale intero 0,5 lt
Cutting oil 0,5 lt



Art. 28020004
€ 37,614

Olio da taglio emulsionabile
in tanica 5 Kg (5lt)
Cutting oil tank 5 lt



Art. 28020005
€ 120,995



Punte per legno serie lunga

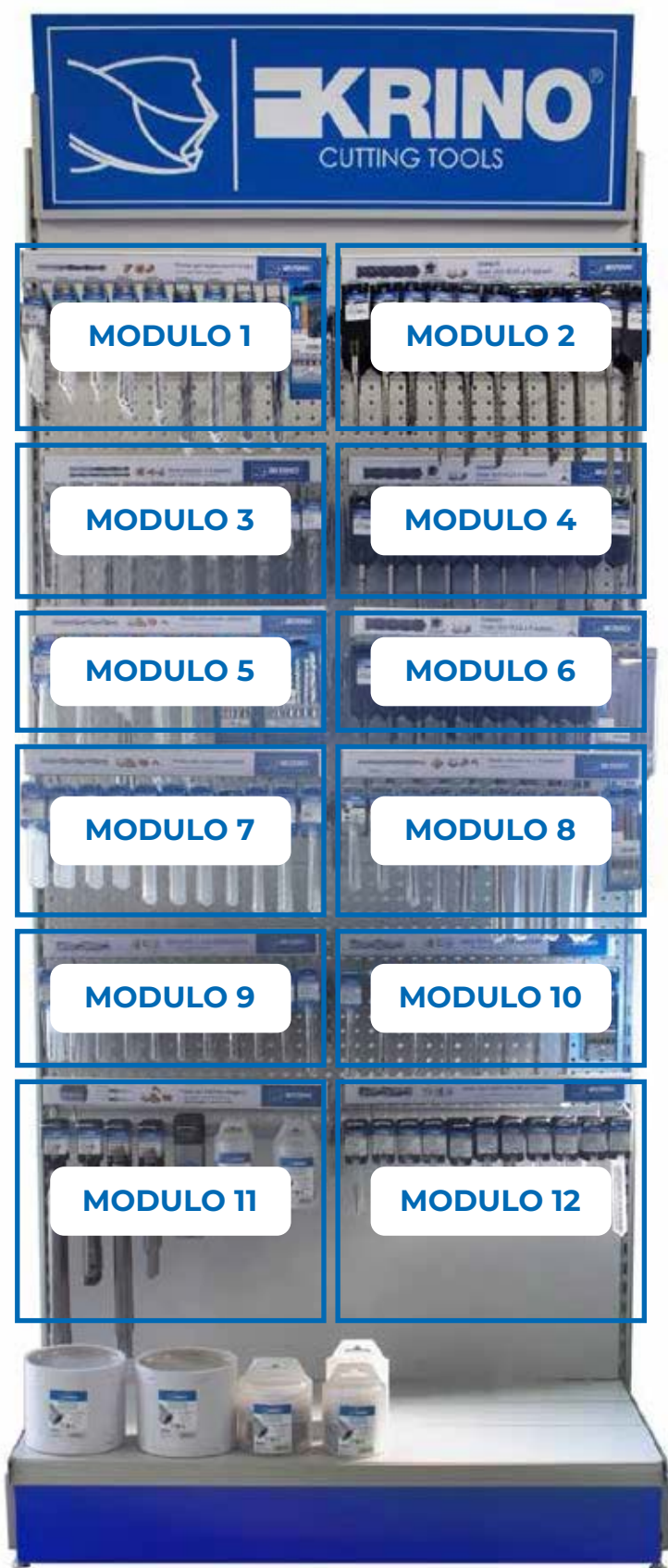
Punte HSS+G DIN 338 Speedmaster

Punte HSS-C05% DIN 338 di Cobalto

SISTEMI ESPOSITIVI

DISPLAY SYSTEMS

**SISTEMA A MODULI PER L'ALLESTIMENTO
DI PARETI ATTREZZATE A LIBERO SERVIZIO**
Modular system for free standing wall display system.



Componi la tua parete in 5 mosse:
Compose your display wall in 5 moves:

- 1 Individua la categoria merceologica di tuo interesse.**
Identify the product category of your interest.
- 2 Individua la famiglia prodotto di tuo interesse.**
Identify the product family of your interest.
- 3 Scegli la profondità di assortimento desiderata.**
tra soluzioni a 1 o più moduli.
Choose the desired assortment depth from 1- or multi-module solutions.
- 4 Individua codice e prezzo del modulo pre assortito.**
Identify pre-sorted module code and price.
- 5 Infine, componi il mix di assortimento**
che risponde alle tue esigenze.
Grazie al sistema espositivo multilivello, per ogni metro lineare è possibile comporre la tua esposizione in modo flessibile, sfruttando un massimo di 12 moduli espositivi.
Finally, compose the assortment mix that meets your needs. With the multilevel display system, for each linear meter you can flexibly compose your display, taking advantage of up to 12 display modules.

Rivolgiti all'agente di zona per consultare il dettaglio di ciascun assortimento e per ulteriori informazioni.
Contact your local agent to see the details of each assortment and for more information.

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CATEGORIA MERCEOLOGICA
PRODUCT CATEGORYFAMIGLIA
PRODOTTO
CATEGORY ITEM
NUMBERDESCRIZIONE ARTICOLO
ITEM DESCRIPTIONN. MODULI
N° OF
MODULSCODICE
MODULO
MODULS ITEM
NUMBERLISTINO €
PRICE LIST €

METALLO - PUNTE METAL - DRILL BITS	01120	PUNTA HSS-CO 8% DIN 338 SERIE CORTA <i>HSS-CO 8% twist drill DIN 338 short serie</i>	2	01135550	1.640,910 €	
			1	01135551	705,180 €	
	01145	PUNTA HSS-CO 5% DIN 338 SERIE CORTA <i>HSS-CO 5% twist drill DIN 338 short serie</i>	2	01155550	1.162,250 €	
			2	01155551	1.089,230 €	
			1	01155552	465,200 €	
	01220	PUNTE HSS-G DIN 338 SPEEDMASTER <i>HSS-G twist drill DIN 338 Speedmaster</i>	2	01229550	1.177,620 €	
			1	01229551	665,160 €	
			1	01229552	543,370 €	
	01060	PUNTA HSS-G DIN 338 FINITURA NERA <i>HSS-G twist drill DIN 338 black finish</i>	3	01068550	1.636,970 €	
			3	01068551	1.633,150 €	
			2	01068552	1.168,390 €	
			ASSORTIMENTI PUNTE HSS-G DIN 338 FINITURA NERA <i>HSS-G twist drills DIN 338 black finish assortments</i>	1	01068553	462,570 €
	01070	PUNTA HSS-G DIN 338 FINITURA BRILLANTE <i>HSS-G twist drill DIN 338 bright finish</i>	3	01075550	1.598,340 €	
			3	01075551	1.571,670 €	
			2	01075552	1.126,460 €	
				ASSORTIMENTO PUNTE HSS-G DIN 338 FINITURA BRILLANTE <i>HSS-G twist drills DIN 338 bright finish assortments</i>	1	01075553
	01079	PUNTA HSS-G FININURA BRILLANTE ATTACCO HEX 1/4" <i>HSS-G twist drill DIN 338 bright finish 1/4" HEX shank</i>	1	01068554	348,440 €	
	01350	PUNTA HSS-G DIN 338 "BASIC" <i>HSS-G twist drill DIN 338 "BASIC"</i>	3	01360551	944,430 €	
			3	01360552	555,840 €	
			2	01360550	945,510 €	
01001	PUNTA HSS DIN 338 - ESECUZIONE RULLATA <i>HSS twist drill DIN 338 - rolled</i>	3	01016550	736,370 €		
		2	01016551	466,300 €		
		1	01016552	235,250 €		
		2	01016553	430,180 €		
METALLO - FRESE METAL - HOLE SAW	21001	FRESA A TAZZA HSS <i>HSS hole saw</i>	1	21010550	574,600 €	
			2	21010551	1.257,310 €	
METALLO - SEGHE BIMETALLICHE METAL - BIMETAL HOLE SAW	21060	SEGA A TAZZA BIMETALLICA HSS <i>HSS bimetal hole saw</i>	4	21080550	1.179,890 €	
			2	21080551	766,730 €	
	21090	SEGA A TAZZA BIMETALLICA HSS-CO <i>HSS-CO bimetal hole saws</i>	2	21013550	826,650 €	
METALLO - MASCHIATURA METAL - TAPPING	10001 + 15001	MASCHI A MANO AL C.V. SERIE 3 PZ. + GIRAMASCHIO ESTENSIBILE <i>C.V. hand taps 3 pcs serie + adjustable tap wrench</i>	1	17005550	241,690 €	
	12001 + 15030	FILIERE AL C.V. METRICHE M + GIRAFILIERE IN POLLICI <i>C.V. round dies metric coarse thread + round die stock</i>	1	17005551	216,490 €	
	10162 + 15005	MASCHI A MACCHINA HSS-G DIN 371/B + GIRAMASCHIO GOODEL SC <i>HSS-G DIN 371/B machine taps + Goodle tap holder</i>	1	10240550	470,560 €	
	10100 + 15001	MASCHI A MANO SERIE 3 PZ + GIRAMASCHIO ESTENSIBILE <i>Hand taps 3 pcs serie + adjustable tap wrench</i>	1	17020550	513,810 €	
	12066 + 15035	FILIERE HSS-G Ø ESTERNO SPECIALE + GIRAFILIERA DIN 225 <i>HSS-G special outside diameter round dies + round die stock DIN 225</i>	1	12100550	329,410 €	

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CATEGORIA MERCEOLOGICA
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MODULSCODICE
MODULO
MODULS ITEM
NUMBERLISTINO €
PRICE LIST €

CATEGORIA MERCEOLOGICA PRODUCT CATEGORY	FAMIGLIA PRODOTTO CATEGORY ITEM NUMBER	DESCRIZIONE ARTICOLO ITEM DESCRIPTION	N. MODULI N° OF MODULS	CODICE MODULO MODULS ITEM NUMBER	LISTINO € PRICE LIST €
MURO - PUNTE WALL - DRILL BITS	03110	PUNTA PER MATERIALI EDILI DURISSIMI "SUPERGRANIT" <i>Drill bit for extreme hard construction materials "SUPERGRANIT"</i>	1	03116550	835,580 €
			1	03116551	980,100 €
	03100	PUNTE PER GRANITO "EXTREME HARD CUT" <i>Drill bits for granite "EXTREME HARD CUT"</i>	1	03105550	423,820 €
	03072	PUNTA PER CALCESTRUZZO "MAX4" <i>Drill bits for concrete "MAX4"</i>	2	03073550	718,130 €
			1	03073551	417,240 €
	03060	PUNTE PER CALCESTRUZZO "SUPERIOR", SERIE CORTA <i>Drill bits for concrete "SUPERIOR", short serie</i>	3	03070550	1.179,310 €
			2	03070551	788,120 €
			1	03070552	413,880 €
	03001	PUNTE PER MURO SERIE CORTA <i>Drill bits for masonry, short serie</i>	4	03050550	944,180 €
			3	03050551	750,160 €
			2	03050552	327,910 €
	03076	PUNTE MULTIUSO "MULTIK" <i>Multipurpose drill bits "MULTIK"</i>	1	03078550	693,530 €
			1	03078551	539,550 €
2			03078552	971,570 €	
03089	PUNTE "FORATUTTO" ATTACCO HEX 1/4" <i>Multipurpose drill bit "FORATUTTO" with HEX 1/4" shank</i>	1	03085550	328,760 €	
MURO - PUNTE SDS WALL - SDS HAMMER DRILL BITS	03169	PUNTE SDS-PLUS "HAMMER" 4 TAGLIENTI <i>SDS-PLUS hammer drill bits "HAMMER" 4 cutting edges</i>	5	03174550	5.435,870 €
			4	03174551	3.362,210 €
			3	03174552	2.641,470 €
			2	03174553	1.759,210 €
	03156	PUNTE SDS "K8" 4 TAGLIENTI <i>SDS-PLUS hammer drill bits "K8" 4 cutting edges</i>	4	03166550	2.091,350 €
			3	03166551	1.531,380 €
			2	03166552	1.015,190 €
	03160	PUNTE SDS-PLUS "K4" 2 TAGLIENTI <i>SDS-PLUS hammer drill bits "K4" 2 cutting edges</i>	4	03163550	3.178,450 €
			3	03163551	2.150,720 €
			2	03163552	1.483,730 €
	03155	PUNTE SDS-PLUS "STANDARD" 2 TAGLIENTI <i>SDS-PLUS hammer drill bits "STANDARD" 2 cutting edges</i>	4	03165550	1.665,040 €
			3	03165551	973,550 €
			2	03165552	692,480 €
03170	PUNTE SDS-MAX <i>SDS-MAX hammer drill bits</i>	1	03176550	929,870 €	
		1	03176551	1.602,890 €	
		1	03176552	996,140 €	
MURO - FRESE DIAMANTATE E PUNTE VETRO WALL - DIAMOND DRILL BITS AND GLASS DRILL BITS	03117	FRESE DIAMANTATE "KERAMASTER" <i>Diamond drill bits "KERAMASTER"</i>	1	03120550	528,800 €
			1	03120551	853,390 €
	21104	FRESA DIAMANTATA M14 <i>Diamond drill bits M14</i>	1	21103550	925,590 €
	03100 + 03140	PUNTE PER GRANITO "EXTREME" + PUNTE PER VETRO <i>Drill bits for granite "EXTREME HARD CUT" + glass drill bits</i>	1	03146550	442,120 €
	03117 + 03140	FRESE DIAMANTATE "KERAMASTER" + PUNTE PER VETRO <i>Diamond drill bits "KERAMASTER" + glass drill bits</i>	1	03146551	558,180 €
	03122 + 03140	FRESE DIAMANTATE "KERAMASTER PLUS" + PUNTE PER VETRO <i>Diamond drill bits "KERAMASTER PLUS" + glass drill bits</i>	1	03146552	708,090 €

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CATEGORIA MERCEOLOGICA PRODUCT CATEGORY	FAMIGLIA PRODOTTO CATEGORY ITEM NUMBER	DESCRIZIONE ARTICOLO ITEM DESCRIPTION	N. MODULI N° OF MODULS	CODICE MODULO MODULS ITEM NUMBER	LISTINO € PRICE LIST €
MURO - FRESE IMPACT WALL - IMPACT CORE BITS	21111	FRESE PERFORATRICI A TAZZA "IMPACT" ATTACCO M22 <i>Masonry impact core bits "IMPACT" with M22 connection</i>	1	21116550	1.298,880 €
			1	21116551	1.228,430 €
MURO - SCAPELLI WALL - CHISELS	03220 + 03222	SCALPELLI SDS-PLUS ALTA QUALITÀ + SCALPELLI SDS-PLUS STANDARD <i>High quality SDS-PLUS chisels + standard quality SDS-PLUS chisels</i>	1	03281550	531,710 €
	03210	SCALPELLI ATTACCO SDS-MAX <i>High quality SDS-MAX chisels</i>	1	03281551	723,310 €
	03222 + 03212	SCALPELLO SDS-PLUS STANDARD + SCALPELLO SDS-MAX STANDARD <i>Standard quality SDS-PLUS chisels + standard quality SDS-MAX chisels</i>	1	03281552	477,640 €
	03220 + 03210	SCALPELLO SDS-PLUS + SCALPELLO SDS-MAX <i>High quality SDS-PLUS chisels + high quality SDS-MAX chisels</i>	1	03281553	735,640 €
LEGNO - PUNTE E MECCHIE WOOD - DRILL BITS AND WOOD SPADES	05040 + 05042	PUNTE PER LEGNO SPIRALE SINGOLA TIPO LEWIS L=300 + L=460 mm <i>Lewis type single helix bits L=300 + L=460 mm</i>	1	05240550	517,480 €
	05030 + 05033	PUNTE PER LEGNO PER CASSEFORMI L=400 + L=600 mm <i>Wood working drills for plankings L=400 + L=600 mm</i>	1	05240551	422,110 €
	05054	PUNTE PER LEGNO A 4 TAGLIENTI CON ATTACCO HEX 1/4" FORM E <i>Hex 1/4" form E bits for wood working with 4 cutting edges</i>	1	05055552	504,040 €
	05200	PUNTA PER LEGNO IN HSS <i>HSS wood working bits</i>	2	05202550	731,010 €
			1	05202551	485,160 €
	05001	PUNTA PER LEGNO AL C.V. <i>C.V. wood working drill bits</i>	2	05010550	332,480 €
	05001 + 05020	PUNTA PER LEGNO AL C.V. + PUNTA PER LEGNO L=245 <i>C.V. wood working drill bits + C.V. wood working drill bits L=245 mm</i>	2	05010551	669,110 €
	05001+ 05020 +05026	PUNTA PER LEGNO AL C.V. + PUNTA PER LEGNO S.L. L=245 L=400 <i>C.V. wood working drill bits + C.V. wood working drill bits L=245 L=400 mm</i>	2	05010552	608,910 €
	05025	PUNTA PER LEGNO S.L. L=400 mm <i>C.V. wood working drill bit L=400 mm</i>	1	05010553	514,230 €
	05045	MECCHIA PIATTA TRE PUNTE SERIE CORTA <i>Wood spade bits short serie</i>	1	05055550	472,760 €
2			05055551	693,370 €	
LEGNO - FRESE WOOD - CENTER BITS	05063	FRESA TIPO FORSTNER <i>Wood center bits, Forstner type</i>	1	05100550	451,090 €
	05063 + 05058	FRESA TIPO FORSTNER + FRESA PER CERNIERA INVISIBILE WS <i>Wood center bits, Forstner type + wood center bits, invisible type</i>	1	05100551	437,550 €
	05067	FRESA FORSTNER ALTO RENDIMENTO <i>Wood center bits, high performance</i>	1	05100552	520,230 €
	05078	FRESE A TAZZA PER LEGNO DENTI IN METALLO DURO <i>Carbide tipped hole saws for wood</i>	2	05079550	1.076,170 €
1			05079551	499,840 €	
LAME PER SEGHETTI ALTERNATIVI JIG SAW BLADES	23600 ...	LAME PER SEGHETTI ALTERNATIVI ATTACCO BOSCH PER METALLO, LEGNO E PLASTICA + LAME PER GATTUCCIO ATTACCO SABRE <i>Jig saw blades Bosch type for metal, wood and plastics + reprocuting blades SABRE type</i>	4	23825550	1.415,260 €
		LAME PER SEGHETTI ALTERNATIVI ATTACCO BOSCH PER METALLO, LEGNO E PLASTICA <i>Jig saw blades Bosch type for metal, wood and plastics</i>	2	23825551	487,610 €
		ASSORTIMENTI LAME ATTACCO BOSCH PER METALLO, LEGNO E PLASTICA + LAME PER GATTUCCIO ATTACCO SABRE <i>Jig saw blades Bosch type for metal, wood and plastics + reprocuting blades SABRE type</i>	2	23825552	704,420 €
LAME PER UTENSILI OSCILLANTI MULTI FUCTION OSCILLATING TOOLS BLADES	23510 ...	LAME PER UTENSILI OSCILLANTI ATTACCO QUICK CHANGE E STARLOCK PER METALLO, LEGNO, PLASTICA <i>Multi fuccion oscillating tools blades QUICK CHANGE and STARLOCK type for metal, wood and plastics</i>	4	23430550	946,670 €

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO

Cutting tools display



60x44x190 cm

La vetrina è in omaggio per ordini di 6 ripiani di utensili a scelta

The display is free of charge in case of an order with 6 shelves with tools at your choice



Composizione

Description

Art. 01195861
€ 2.727,229



Ø 12÷50 + 55 - 60
(2x)

82 pcs HSS - G

Art. 01195876
€ 4.875,412



Ø 12÷50 + 55 - 60
(2x)

82 pcs HSS - Co

Art. 01195871
€ 1.363,615



Ø12÷50 + 55 - 60
(1x)

41 pcs HSS - G

Art. 01195869
€ 1.949,540



Ø12÷50 + 55 - 60
(1x)

41 pcs HSS+TiN



Composizione

Description

Art. 01195862
€ 3.313,154



Ø 12÷50 + 55 - 60
(2x)

82 pcs HSS - G
HSS+TiN



Ø12÷50 + 55 - 60
(1x)



Composizione

Description

Art. 01195860
€ 3.649,638



Gr. 1 - 2 - 3 - 4 - 5
- 7 - 8
1 pcs.

53 pcs



Gr. 2 - 3 - 4 - 5 - 6
- 9 - 24
1 pcs.



Ø 4.3 - 5.3 - 6.3 - 7.3 - 8.3
9.4 - 10.4 - 12.4 - 15
16.5 - 20.5 - 25 - 28 - 31
1 pcs.



5 pcs.



Gr. 1 - 2 - 3 - 4
1 pcs



Gr. 2 - 3 - 4 - 5 - 6
- 9 - 24
1 pcs.



Gr 1 - 2 - 3 - 4
1 pcs.



011750600 5 pcs



Composizione

Description

Art. 01195859
€ 2.951,433



Gr. 1 - 2 - 3 - 4 2 pcs.
Gr. 5 - 7 - 8 1 pcs.

53 pcs



Gr. 2 - 3 - 4
5 - 6 - 9 - 24
2 pcs.



Ø 4.3 - 5.3 - 6.3 - 7.3 - 8.3
9.4 - 10.4 - 12.4 - 15
16.5 - 20.5 - 25 - 28 - 31
1 pcs.



5 pcs.



Gr. 1 - 2 - 3 - 4
1 pcs.



011750600 5 pcs.

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO

Cutting tools display



Composizione
Description

Art. 01195865
€ 1.081,996

72 pcs HSS M3/1



21060

Ø 16 - 17 - 19 - 20 - 21 - 22 - 24 - 25
27 - 29 - 30 - 32 - 33 - 35 - 37 - 38
40 - 41 - 44 - 46 - 48 - 51 - 54
(2x)

Ø 57 - 60 - 64 - 70 - 76 - 79 - 83
89 - 92 - 102
(1x)



210705519 8 pcs.



210705546 8 pcs.



Composizione
Description

Art. 01195879
€ 1.264,457

72 pcs M42 CO 8%



21090

Ø 16 - 17 - 19 - 20 - 21 - 22 - 24 - 25
27 - 29 - 30 - 32 - 33 - 35 - 37 - 38
40 - 41 - 44 - 46 - 48 - 51 - 54
(2x)

Ø 57 - 60 - 64 - 70 - 76 - 79 - 83
89 - 92 - 102
(1x)



210705519B
8 pcs.



210705546B
8 pcs.



Composizione
Description

Art. 01195864
€ 1.682,746

32 pcs T.C.T.



21040

Ø15÷40x1+42 - 45 - 48
50 - 55 - 60



Composizione
Description

Art. 01195880
€ 1.653,623

28 pcs HSS



21200
Weldon

Ø12÷35x1
+38 - 40 - 45 - 50



Composizione
Description

Art. 01195866
€ 1.761,815

32 pcs



21015

Ø 16 - 22 - 25 - 27 - 30 - 35 - 38 - 40
45 - 50 - 55 - 60 - 65 - 70 - 80 (2x)
Ø 85 - 100 (1x)



Composizione
Description

Art. 26008501
€ 913,600

50 pcs HSS Z2+Z3



26001 - 26003

Ø6 - 8 - 10
12 - 15
(5x)



Composizione
Description

Art. 26030502
€ 1.889,815

45 pcs HM4



26020

Ø 6 - 8 - 10
12 - 16
(9x)

Art. 26030504
€ 2.652,319

45 pcs HM4+TiALN



26034

Ø 6 - 8 - 10
12 - 16
(9x)



Art. 21116112
€ 718,029

24 pcs

Composizione
Description



21110
21111

Ø 30 - 35 - 40
50 - 65 - 80
90 - 100



HEX 12
4 pcs.



SDS
4 pcs.



8 pcs

Art. 21116117
€ 1.513,268

29 pcs

Composizione
Description



21122

Ø 40 - 50 - 60
66 - 80 - 90
100



21130316
10 pcs.



21130110
6 pcs.



21130300
3 pcs.



21130305
3 pcs.

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO

Cutting tools display



44x31x52 cm

La vetrina è in omaggio per ordini di 2 ripiani di utensili a scelta

The display is free of charge in case of an order with 2 shelves with tools at your choice



Composizione

Description

Art. 01195761
€ 1.763,064
59 pcs HSS-G



21001

HSS-G
Ø15÷37x2 + 38÷50x1



Composizione

Description

Art. 01195760
€ 2.974,646
45 pcs



01180

Gr. 1 - 2 - 3 - 4 - 5 - 7 - 8
1 pcs.



01183

Gr. 2 - 4 - 6 - 9 - 24
1 pcs.



01185

Ø 5.3 - 6.3 - 8.3 - 10.4
12.4 - 15 - 16.5 - 20.5
25 - 28
1 pcs.



0117601

5 pcs



01200

Gr. 1 - 2 - 3 - 4
1 pcs.



01230

Gr. 2 - 4 - 6 - 9 - 24
1 pcs.



01188

Gr. 1 - 2 - 3 - 4
1 pcs.



011750600

5 pcs

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO

Cutting tools display



Composizione
Description

Art. 01195786
€ 1.864,243



Ø15+50+55-60x1

21300

38 pcs
HSS+TiN



Composizione
Description

Art. 01195764
€ 2.048,700



Ø15+50x1 + 55-60

21325

38 pcs
HSS-G+TiAlN



Composizione
Description

Art. 01195762
€ 2.125,701



Ø15+50x1+55-60

21040

38 pcs
T.C.T.



Composizione
Description

Art. 01195778
€ 1.179,782



Ø12+30x1 + 32-35-38-40

21200

Weldon

23 pcs
HSS



Composizione
Description

Art. 01195773
€ 652,540



Ø 16 - 19 - 20 - 21 - 22 - 24 - 25 - 27 - 29 - 30

(2x)

Ø 32 - 35 - 37 - 38 - 40 - 41 - 44

48 - 51 - 54 - 57 - 60 - 64 - 70 - 76

(1x)



210705519

6 pcs.



210705546

6 pcs.

47 pcs
HSS M3/1



Composizione
Description

Art. 01195780
€ 745,883



Ø 16 - 19 - 20 - 21 - 22 - 24 - 25

27 - 29 - 30

(2x)

Ø 32 - 35 - 37 - 38 - 40 - 41 - 44

48 - 51 - 54 - 57 - 60 - 64 - 70 - 76

(1x)



210705519B

6 pcs



210705546B

6 pcs

47 pcs
M42 CO 8%



Composizione
Description

Art. 01195774
€ 945,793

31 pcs



21110

21111

Ø 25 - 30 - 35 - 40 (2x)

50 - 65 (2x)

80 - 90 - 100 (1x)



21115501

2 pcs.



21115521

2 pcs.



21115504

2 pcs.



21115524

2 pcs.



21115506

8 pcs.



TABELLE TECNICHE

TECHNICAL TABLES

SCelta DELLA PUNTA PER METALLO E DEI PARAMETRI DI TAGLIO DA USARE IN FUNZIONE DEL MATERIALE DA LAVORARE

Chart for metal drills selection and relative cutting speeds in accordance with the materials to work

1



Materiale da lavorare Work-piece material	Qualità punta Drill quality	Velocità periferica Peripheral speed	Diametro punta / Drill size - mm						Refrigerante Coolant
			2	5	8	12	16	25	
			Avanzamento / Feed (mm/giro)						
Acciaio non legato da costruzione / Common steel R<600N/mm ²	HSS HSS-CO	20÷25 25÷30	0.05	0.12	0.20	0.25	0.30	0.40	
Acciaio da costruzione basso legato / Low alloy steel R<700÷900N/mm ²	HSS HSS-CO	10÷12 15÷18	0.03	0.07	0.10	0.16	0.20	0.25	
Acciaio legato al Ni Cr / Ni Cr Steel R<1100÷1300N/mm ²	HSS HSS-CO	6÷8 8÷10	0.02	0.05	0.08	0.12	0.14	0.18	
Acciaio inox martensitico e austenitico / Stainless steel Acciaio refrattario Acciaio resistente alla corrosione Heat resistant steel, corrosion resistant steel	HSS-CO 5% HSS-CO 8%	6÷8 8÷10	0.02	0.05	0.08	0.12	0.14	0.18	
Acciaio alto legato con tenore di manganese >10% High manganese content steel	HSS-CO 8%	3÷5	0.02	0.05	0.08	0.12	0.14	0.18	
Superleghe / Nimonic	HSS-CO 5% HSS-CO 8%	3÷8	0.02	0.05	0.08	0.12	0.14	0.18	
Titanio / Titanium alloys	HSS-CO 5% HSS-CO 8%	3÷6	0.02	0.05	0.08	0.12	0.14	0.18	
Nichel / Monel	HSS-CO	10÷12	0.02	0.05	0.08	0.12	0.14	0.18	
Ghisa grigia 200 HB / Cast Iron	HSS HSS-CO	15÷20 20÷25	0.02	0.12	0.20	0.25	0.30	0.40	
Ghisa grigia 350 HB / Cast Iron	HSS HSS-CO	5÷10 20÷25	0.03	0.07	0.10	0.16	0.20	0.25	
Bronzo dolce / Soft bronze	HSS HSS-CO	20÷35	0.05	0.08	0.14	0.20	0.25	0.30	
Bronzo duro / Tough bronze	HSS HSS-CO	15÷30	0.05	0.08	0.14	0.20	0.25	0.30	
Ottone dolce / Soft brass	HSS HSS-CO	60÷80	0.08	0.18	0.25	0.30	0.35	0.40	
Ottone tenace / Tough brass	HSS HSS-CO	30÷50	0.05	0.15	0.20	0.25	0.35	0.40	
Rame puro / Copper	HSS	30÷60	0.05	0.14	0.18	0.22	0.30	0.40	
Rame elettrolitico / Electrolite copper	HSS	20÷35	0.05	0.14	0.18	0.22	0.30	0.40	
Alluminio / Aluminium	HSS	40÷80	0.05	0.14	0.18	0.22	0.30	0.40	
Leghe alluminio / Aluminium alloys	HSS	30÷60	0.05	0.14	0.18	0.22	0.30	0.40	
Silumin / Leghe Al-Si Silumin	HSS	30÷50	0.05	0.08	0.14	0.20	0.25	0.30	
Leghe al manganese / Manganese alloys	HSS	60÷90	0.08	0.18	0.25	0.30	0.35	0.40	
Zinco e le sue leghe / Zinc alloys	HSS	30÷50	0.05	0.14	0.18	0.20	0.25	0.30	
Resine termoplastiche (dolci) / Soft plastic	HSS	20÷40	0.05	0.08	0.14	0.20	0.25	0.30	
Resine termoplastiche (dure) / Hard plastic	HSS	10÷20	0.05	0.08	0.14	0.20	0.25	0.30	
Plexiglass	HSS	15÷20	0.05	0.08	0.14	0.20	0.25	0.30	
Gomma dura / Hard rubber	HSS	15÷35	0.08	0.18	0.25	0.30	0.35	0.40	
Grafite / Graphite	HSS	3÷6	a mano / by hand						

Applicazioni



Olio da taglio
Cutting oil

Acqua
Water

A secco
Dry

Nota: Le punte elicoidali cilindriche rettificata garantiscono la realizzazione di fori di tolleranza H10+H12
Fully ground twist drills made holes with H10+H12 tolerance

CONVERSIONE DELLA VELOCITÀ PERIFERICA DI TAGLIO DA M/MIN IN GIRI/MIN IN FUNZIONE DEL DIAMETRO DELLA PUNTA

Cutting speed chart into revolution per minute (RPM), according to the twist drill diameter

2

Diametro punta Drill size		Velocità di taglio / Cutting speed Vt mt/min													
mm	pollici inch	3													
		Velocità di taglio / Cutting speed													
2	5/64	480	640	800	960	1270	1590	1910	2390	2870	3180	3980	4780	5570	6370
3	1/8	320	420	530	640	850	1060	1270	1590	1910	2120	2650	3180	3720	4250
4	5/32	240	320	400	480	640	800	960	1190	1430	1590	1990	2390	2790	3180
5	13/64	190	250	320	380	510	640	760	960	1150	1270	1590	1910	2230	2550
6	15/64	160	210	270	320	420	530	640	800	960	1060	1330	1590	1860	2120
8	5/16	120	160	200	240	320	400	480	600	720	800	1000	1190	1390	1590
10	25/64	95	130	160	190	250	320	380	480	570	640	800	960	1110	1270
12	15/32	80	110	130	160	210	270	320	400	480	530	660	800	930	1060
14	35/64	70	90	110	140	180	230	270	340	410	450	570	680	800	910
16	5/8	60	80	100	120	160	200	240	300	360	400	500	600	700	800
18	23/32	55	70	90	110	140	180	210	270	320	350	440	530	620	710
20	25/32	50	65	80	100	130	160	190	240	290	320	400	480	560	640
22	7/8	45	60	70	85	120	140	170	220	260	290	360	430	510	580
24	15/16	40	55	65	80	110	130	160	200	240	270	330	400	460	530
27	1" 1/16	35	45	60	70	95	120	140	180	210	240	290	350	410	470
30	1" 1/8	30	40	55	65	85	110	130	160	190	210	270	320	370	420
32	1" 1/4	30	40	50	60	80	100	120	150	180	200	250	300	350	400
34	1" 3/8	30	35	45	55	75	95	110	140	170	190	230	280	330	370
36	1" 7/16	25	35	45	55	70	90	110	130	160	180	220	270	310	350
38	1" 1/2	25	35	40	50	65	85	100	130	150	170	210	250	290	340
40	1" 9/16	25	30	40	50	65	80	100	120	140	160	200	240	280	320
42	1" 5/8	25	30	40	45	60	75	90	110	140	150	190	230	270	300
44	1" 3/4	20	30	35	45	60	70	85	110	130	140	180	220	250	290
46	1" 13/16	20	30	35	40	55	70	85	100	120	140	170	210	240	280
48	1" 7/8	20	25	35	40	55	65	80	100	120	130	170	200	230	270
50	2"	20	25	30	40	50	65	75	100	110	130	160	190	220	250

$$n^{\circ} \text{ giri/min (r.p.m.)} = \frac{Vt \text{ (Mt/min)} \times 1000}{3,14 \times \varnothing \text{ (mm)}}$$

Formula di conversione della velocità periferica di taglio da mt/min in n.giri/min in funzione del diametro dell'utensile

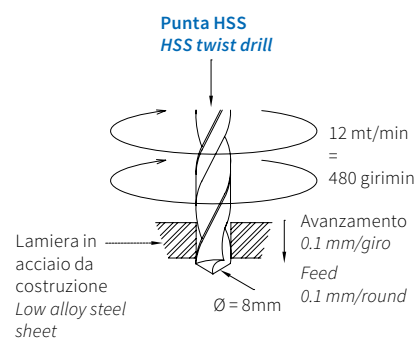
Cutting tip speed conversion formula, from Meter Per Min. to RPM, in accordance with the tool size

Esempio di utilizzo delle tabelle:

Se si vuole praticare un foro del diametro di 8 mm con una punta HSS, in una lamiera in acciaio comune e si desidera conoscere i parametri di taglio adeguati alla foratura, si dovrà consultare la tabella n. 1 nella quale è indicato che una punta HSS da mm 8 avrà un avanzamento consigliato di 0,1 mm/giro ed una velocità di taglio di 10÷12 mt/min. Per la conversione della velocità da mt/min in giri/min, si consulerà la tabella n.2; incrociando la riga riferita al diametro 8 mm con la colonna che contiene la velocità 12 mt/min si troverà il valore di 480 giri/min. Il foro quindi andrà eseguito con una velocità di 480 giri/min e con un avanzamento di 0,1 mm/giro. Una buona lubrificazione infine garantirà un ottimo risultato di foratura.

Charts use example:

If you want to make a hole of 8 mm with an HSS bit into a metal sheet and you wish to know the correct cutting parameters, have a look on the chart n.1 where you can see that an HSS bit has a suggested feed of 0,1 mm/revolution and a cutting speed of 10÷12 mt/minute. For the speed conversion mt/min and rpm, please look at the chart n. 2; crossing the line containing the size 8 mm and the column of speed 10÷12 mt/min, you will find the value of 480 rpm. So that the drill should be made with a speed of 480 rpm with 0,1 mm/revolution feed. An appropriate lubricating finally guarantee the best cutting results.



PARAMETRI DI TAGLIO PER PUNTE IN METALLO DURO O CON PLACCHETTE IN METALLO DURO PER IL TAGLIO DEI METALLI

Recommended cutting parameter chart for tungsten carbide drill bits and carbide tipped twist drills on metals cuttings

3



Metallo duro
H.M.

TAGLIO METALLI
METAL CUTTING

Materiale da lavorare Work-piece material	Resistenza a trazione/durezza Tensile strength/hardness	Velocità di taglio Cutting speed Mt/min.	Diametro punta / Drill size - mm						Refrigerante Coolant
			2	2,5	4	5	8	10	
			Avanzamento / Feed (mm/giro)						
Acciaio basso legato Low alloy steel	fino / up to 700 N/mm ²	80-100	0,025	0,0315	0,05	0,05	0,08	0,1	
Acciaio legato e alto legato High alloy steel	fino / up to 900 N/mm ² oltre / beyond 900 N/mm ²	70-90 60-70	0,02 0,0125	0,025 0,016	0,04 0,025	0,05 0,025	0,063 0,04	0,08 0,05	
Acciaio per utensili Tool steel	fino / up to 1000 N/mm ² oltre / beyond 1000 N/mm ²	50-60 20-40	0,0125 0,01	0,016 0,0125	0,025 0,02	0,025 0,025	0,04 0,0315	0,05 0,04	
Acciaio temprato Tempered steel	fino / up to 60 HRC	10-30	0,0063	0,008	0,0125	0,0125	0,02	0,025	
Acciaio per molle Spring steel		20-50	0,01	0,0125	0,02	0,025	0,0315	0,04	
Acciaio austenitico Cr-Ni, Inox, resistente agli acidi e al calore Austenitic stainless steel, acid resistant steel, heat resistant steel		20-40	0,008	0,01	0,016	0,02	0,025	0,0315	
Acciaio ferritico, inox, resistente al calore Ferritic steel, stainless steel, heat resistant steel		40-60	0,0125	0,016	0,025	0,025	0,04	0,05	
Acciaio duro al Mn Hard Mn steel		20-40	0,0063	0,008	0,0125	0,0125	0,02	0,025	
Acciaio fuso Cast steel	fino / up to 500 N/mm ² oltre / beyond 500 N/mm ²	60-80 30-60	0,025 0,016	0,0315 0,02	0,05 0,0315	0,05 0,0315	0,08 0,05	0,1 0,08	
Acciaio fuso legato / Ghisa in conghiglia Alloy cast steel / Chilled iron	fino / up to 350 HB oltre / beyond 350 HB	40-60 20-40	0,0125 0,0063	0,016 0,008	0,025 0,0125	0,025 0,0125	0,04 0,02	0,05 0,025	
Ghisa grigia Grey cast iron	fino / up to GG 40	70-100	0,025	0,0315	0,05	0,05	0,08	0,1	
Ghisa sferoidale / Ghisa malleabile Spheroidal cast iron / Malleable cast iron	fino / up to GGG 60 fino / up to GTW / GTS 55	50-80	0,02	0,025	0,04	0,05	0,063	0,08	
Rame Copper		80-110	0,02	0,025	0,04	0,05	0,063	0,08	
Bronzo Bronze	duro / hard tenero / soft	60-80 100-120	0,016 0,025	0,02 0,0315	0,0315 0,05	0,0315 0,05	0,05 0,08	0,063 0,1	
Leghe di alluminio fino a 11% Si Aluminium alloy up to 11% Si		100-140	0,0135	0,04	0,063	0,063	0,1	0,125	
Leghe di alluminio oltre 11% Si Aluminium alloy beyond 11% Si		60-100	0,02	0,025	0,04	0,05	0,063	0,08	
Ottone, Zn, Bronzo per getti Brass, Zn, Cast bronze		80-110	0,02	0,025	0,04	0,05	0,063	0,08	
Titanio e le sue leghe Titanium alloy		20-40	0,01	0,0125	0,02	0,025	0,0315	0,04	
Leghe di magnesio Magnesium alloy		100-150	0,0315	0,04	0,063	0,063	0,1	0,125	
Materie plastiche dure Hard plastics		60-100	0,0315	0,04	0,063	0,063	0,1	0,125	
Materie plastiche tenere, laminati, termoplastici Soft plastics, thermoplastics, laminates		80-150	0,04	0,05	0,08	0,1	0,125	0,16	
Resine epossidiche rinforzate Reinforced epoxy resins		60-100	0,0315	0,04	0,063	0,063	0,1	0,125	

$$n^{\circ} \text{ giri/min (r.p.m.)} = \frac{V_t \text{ (Mt/min)} \times 1000}{3,14 \times \varnothing \text{ (mm)}}$$

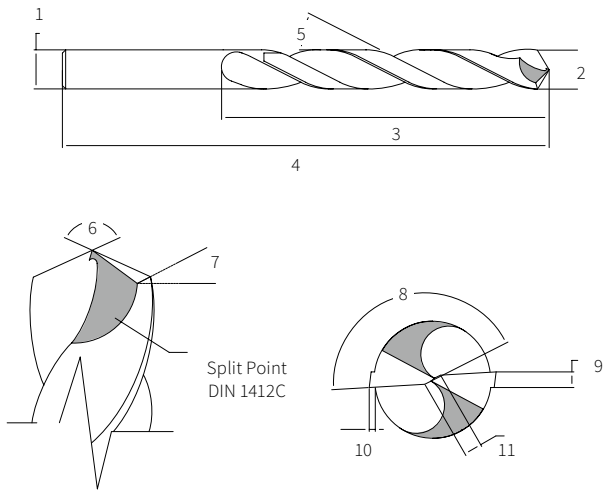
Formula di conversione della velocità periferica di taglio da mt/min in n.giri/min in funzione del diametro dell'utensile

Cutting tip speed conversion formula, from Meter Per Min. to RPM, in accordance with the tool size

NOMENCLATURA PER PUNTE ELICOIDALI CILINDRICHE

Twist drill nomenclature

4

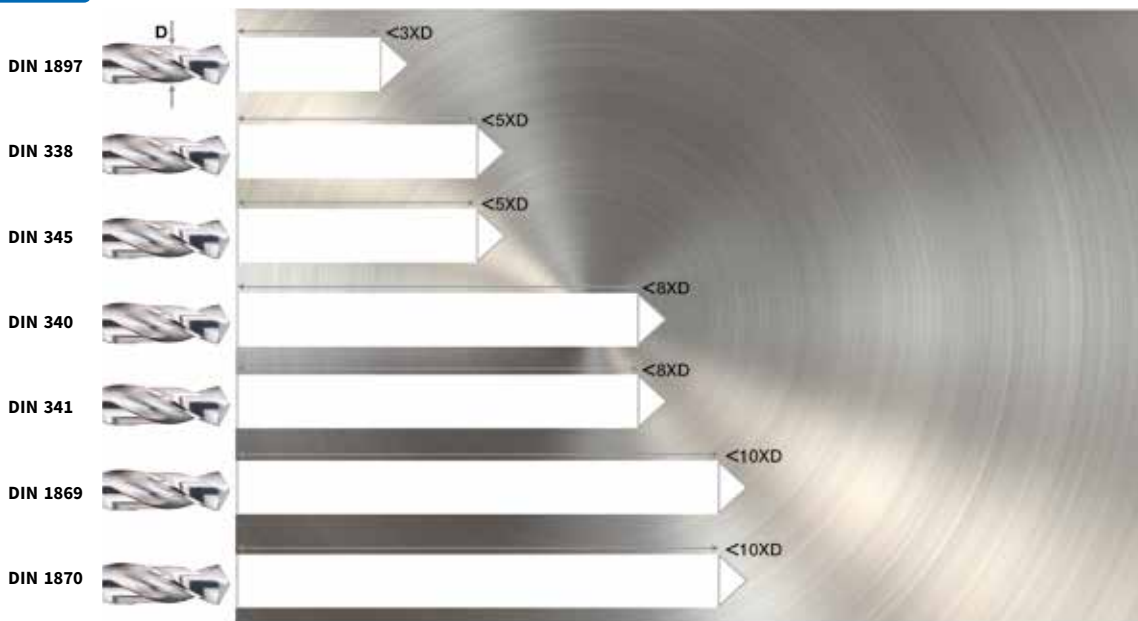


1	(d) Codolo / Shank
2	(Ø) Diametro / Diameter
3	(l) Elica / Flute
4	(L) Lunghezza totale / Overall length
5	(α) Angolo dell'elica / Helix angle
6	Angolo dei taglienti / Point angle
7	Angolo di spoglia / Lip clearance angle
8	Angolo del tagliente centrale / Chisel edge angle
9	Fase / Land
10	Profondità dello scarico / Depth of body clearance
11	Nocciolo / Web thickness

PROFONDITÀ DI FORATURA INDICATIVE PER PUNTE ELICOIDALI

Cutting depth according to twist drill standard

5



RELAZIONE TEORICA TRA LA VELOCITÀ DI TAGLIO E LA VITA UTILE DELL'UTENSILE

Theoretical link between the cutting speed and the tool life cycle

6

LEGGE DI TAYLOR

$$Vt \times T^n = C$$

Vt è la velocità di taglio espressa in m/min
T è la vita utile dell'utensile espressa in min / **C** (m/min) e **n** sono costanti che dipendono dalla tipologia di utensile. In particolare, per utensili HSS $C=60$ m/min e $n=0.15$, per utensili in metallo duro $C=300$ m/min e $n=0.3$

Vt is the cutting speed in m/min
T is the tool life cycle in min / $C=60$ m/min, $n=0.15$ for HSS cutting tools, $C=300$ m/min, $n=0.3$ for hard metal cutting tools.
C (m/min) and **n** are constant values depending on the tool type

Una punta HSS di diametro 8 mm ha un ciclo di vita teorico di: 2500 h se usata a 400 giri/min - 25 h se usata a 800 giri/min.

HSS twist drill Ø 8 mm has a theoretical tool life cycle of 2500h at 400rpm, 25h at 800rpm

VELOCITÀ DI TAGLIO PER FRESE

A INCASSARE, SVASARE E SBAVARE IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for countersinks and deburring tools in accordance with the materials to work

7



Frese a svasare
Deburring tools

Materiale da lavorare Work-piece material	Velocità di taglio Cutting speed Mt/min	Refrigerante Coolant
Acciaio non legato Carbon steel	20	
Acciaio legato fino a 700 N/mm² Alloy steel up to 700 N/mm ²	15	
Acciaio legato fino a 1000 N/mm² Alloy steel up to 1000 N/mm ²	10	
Ghisa fino a 250 N/mm² Cast iron up to 250 N/mm ²	10	
Ghisa oltre 250 N/mm² Cast iron beyond 250 N/mm ²	8	
Ottone fragile Fragile brass	40	
Ottone plastico Tough brass	20	
Leghe di alluminio fino a 11% Si Aluminium alloys up to 11% Si	20	
Materiale termoplastico Thermoplastics	15	
Materiale termoindurente Thermosetting plastics	10	

PARAMETRI DI TAGLIO PER UTENSILI CONICI IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for conical drill bits in accordance with the materials to work

8



Utensili conici
Conical drill bits

Materiale da lavorare Work-piece material	Profondità di foratura Cutting depth mm	Grandezza Size								Refrigerante Coolant
		1	2	3	4	5	6	7	8	
		3÷14	6÷20	16÷30,5	26÷40	36÷50	40÷61	3÷31	3÷22,5	
Giri/min - rpm										
Acciaio inox e alto legato Stainless steel high alloy steel	1	750	500	280	200	150	130	400	500	
Acciaio basso legato Low alloy steel	2	1100	740	420	300	220	190	580	740	
Ghisa fino a 250 N/mm² Cast iron up to 250 N/mm ²	3	560	360	200	150	110	100	300	360	
Ghisa oltre 250 N/mm² Cast iron beyond 250 N/mm ²	3	380	240	140	100	80	60	200	240	
Ottone fragile Fragile brass	3	2200	1500	830	600	440	400	1100	1500	
Ottone tenace Tough brass	3	1300	860	480	340	260	220	680	860	
Leghe leggere Light alloys	5	1100	740	420	300	220	190	580	740	
Plastica Plastics	5	1300	860	480	340	260	220	680	860	

PARAMETRI DI TAGLIO PER UTENSILI A GRADINO IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for step drills in accordance with the materials to work

9



Utensili a gradino
Step drill bits

Materiale da lavorare Work-piece material	Profondità di foratura Cutting depth mm	Grandezza Size														Refrigerante Coolant	
		1	2	3	4	5	6	7	8	9	10	11	21	22	23		24
		4÷12	4÷12	12÷20	4÷20	20÷30	4÷30	30÷40	40÷50	6÷36	6÷58	4÷39	6,3÷26,75	6÷30,5	6÷37		6÷38
Giri/min - rpm																	
Acciaio inox e alto legato Stainless steel high alloy steel	3÷4	800	800	400	530	250	380	180	140	300	200	300	400	350	300	300	
Acciaio basso legato Low alloy steel	3÷4	1200	1200	600	800	380	560	280	200	450	300	450	600	530	450	450	
Ghisa fino a 250 N/mm² Cast iron up to 250 N/mm ²	3÷4	600	600	300	400	190	280	140	100	230	150	230	300	260	230	230	
Ghisa oltre 250 N/mm² Cast iron beyond 250 N/mm ²	3÷4	400	400	200	260	130	190	90	70	150	100	150	200	180	150	150	
Ottone fragile Fragile brass	3÷4	2400	2400	1200	1600	760	1100	550	420	900	600	900	1200	1000	900	900	
Ottone tenace Tough brass	3÷4	1400	1400	700	920	450	650	320	240	530	350	530	700	620	530	530	
Leghe leggere Light alloys	3÷4	1200	1200	600	800	380	560	280	200	450	300	450	600	530	450	450	
Plastica Plastics	3÷4	1400	1400	700	920	450	650	320	240	530	350	530	700	620	530	530	

VELOCITÀ DI TAGLIO PER FRESE

A INCASSARE, SVASARE E SBAVARE IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for countersinks and deburring tools in accordance with the materials to work

10



Frese a tazza
Hole cutters

Materiale da lavorare Work-piece material	Ø Fresa / Hole cutter mm												Refrigerante Coolant
	12÷17	18÷24	25÷32	33÷38	39÷44	46÷51	52÷57	58÷64	65÷70	71÷80	81÷90	91÷100	
	n. giri/min - rpm												
Acciaio basso legato Low alloy steel	550	380	300	240	200	170	150	130	120	110	100	90	
Acciaio inox e alto legato Stainless steel high alloy steel	230	160	130	100	80	70	60	60	50	50	40	40	
Ghisa Cast iron	280	190	150	120	100	90	80	70	60	60	50	40	
Leghe leggere Light alloys	870	590	470	370	310	270	240	210	190	170	150	140	
Alluminio Aluminium	870	590	470	370	310	270	240	210	190	170	150	140	
Plastica Plastics	660	450	350	280	240	210	180	160	150	130	120	100	

VELOCITÀ DI TAGLIO PER FRESE A CAROTARE IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for core bits in accordance with the materials to work

11



Frese a carotare in HSS
HSS Core drills

Materiale da lavorare Work-piece material	Ø Fresa / Hole cutter mm							Refrigerante Coolant
	12÷15	16÷20	21÷25	26÷30	31÷35	36÷45	50÷60	
	n. giri/min - rpm							
Acciaio basso legato Low alloy steel	660	480	370	310	260	200	160	
Acciaio inox e alto legato Stainless steel high alloy steel	290	210	170	140	120	90	70	
Ghisa Cast iron	340	250	190	160	140	110	80	
Leghe leggere Light alloys	1030	740	580	480	410	320	240	

VELOCITÀ DI TAGLIO PER FRESE A CAROTARE CON DENTI IN METALLO DURO

Recommended cutting parameter chart for core bits in accordance with the materials to work

12



Frese a carotare in HM
HM Core drills

Materiale da lavorare Work-piece material	Ø Fresa / Hole cutter mm							Refrigerante Coolant
	12÷15	16÷20	21÷25	26÷30	31÷35	36÷45	50÷60	
	n. giri/min - rpm							
Acciaio basso legato Low alloy steel	1220	880	690	570	480	380	290	
Acciaio inox e alto legato Stainless steel high alloy steel	860	620	480	400	340	270	200	
Ghisa Cast iron	980	710	550	450	390	300	230	
Leghe leggere Light alloys	1470	1060	380	680	580	450	350	

VELOCITÀ DI TAGLIO PER FRESE A TAZZA TCT IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for TCT hole cutters in accordance with the materials to work

13



Frese a tazza T.C.T.
T.C.T. Hole cutters

Materiale da lavorare Work-piece material	Spessore di foratura Cutting depth mm	Ø Frese TCT / TCT hole cutter mm						Refrigerante Coolant
		15÷20	21÷25	26÷30	31÷40	41÷50	51÷70	
		n. giri/min - rpm						
Acciaio basso legato Low alloy steel	4	710	550	450	360	280	210	
Acciaio inox e alto legato Stainless steel high alloy steel	2	530	420	340	270	210	160	
Ghisa Cast iron	4	620	480	400	320	250	190	
Ottone Brass	4	800	620	510	410	320	240	
Alluminio Aluminium	4	880	690	570	450	350	270	
Plastica Plastics	4	740	580	480	380	300	220	

VELOCITÀ DI TAGLIO PER SEGHE A TAZZA IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for bimetal hole saws in accordance with the materials to work

14



Seghe a tazza
Bimetal hole saws

Materiale da lavorare Work-piece material	Ø Sega / Hole saw mm																Refrigerante Coolant	
	14÷17	19÷24	25÷32	33÷38	40÷44	46÷51	52÷57	59÷64	65÷70	73÷79	83÷89	92÷98	102÷108	111÷121	127÷140	146÷152		160÷210
	n. giri/min - rpm																	
Ferro / Acciaio dolce Low alloy steel	530	360	280	230	190	170	140	130	120	110	90	80	80	70	60	50	40	
Acciai trattati - Acciai inox Stainless steel - High alloy steel	210	140	110	90	80	70	60	50	50	40	40	30	30	30	20	20	20	
Ghisa Cast iron	250	170	140	110	90	180	70	60	60	50	40	40	40	30	30	30	20	
Ottone Brass	740	510	400	320	270	230	200	180	170	150	130	120	110	100	80	70	60	
Alluminio e leghe leggere Aluminium Light alloys	850	580	450	360	300	270	230	210	190	170	150	130	120	110	100	80	70	
Legno Wood	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	80	
Plastica Plastics	640	430	340	270	230	200	170	150	140	130	110	100	90	80	70	60	50	
Cartongesso Gypsum board	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	80	

VELOCITÀ DI TAGLIO IN FUNZIONE DEL DIAMETRO DELLA FRESA ROTATIVA IN HSS

Recommended cutting parameter chart for HSS rotary files

15



Z2: Vt 220 ÷ 250 m/min
Z3: Vt 80 ÷ 220 m/min

Frese rotative HSS
HSS rotary files

Diametro fresa Rotary burr diameter mm	Velocità di taglio / Cutting speed Mt/min							
	80	100	150	200	220	230	240	250
	n. giri/min - rpm							
6	4250	5310	7960	10620	11680	12210	12740	13270
8	3180	3980	5970	7960	8760	9160	9550	9950
10	2550	3180	4780	6370	7010	7320	7640	7960
12	2120	2650	3980	5310	5840	6100	6370	6630
15	1700	2120	3180	4250	4670	4880	5100	5310

TAGLIO METALLI
METAL CUTTING

VELOCITÀ DI TAGLIO IN FUNZIONE DEL DIAMETRO DELLA FRESA ROTATIVA IN METALLO DURO

Recommended cutting parameter chart for carbide rotary files

16



Tutti i tipi di taglio / All cut types
(HM1, HM3 PLUS, HM3, HM4): Vt 300 ÷ 400 m/min

Frese rotative HM
Bimetal hole saws

Diametro fresa Rotary burr diameter mm	Velocità di taglio / Cutting speed Mt/min					
	300	320	340	360	380	400
	n. giri/min - rpm					
6	15930	16980	18050	19100	20170	21230
8	11950	12740	13535	14330	15130	15920
10	9550	10190	10830	11465	12100	12740
12	7960	8490	9020	9560	10085	10620
16	5970	6370	6770	7160	7570	7960

PARAMETRI DI TAGLIO DELLA SEGA CIRCOLARE IN HSS

Recommended cutting parameter chart for HSS band saw blades

17



Seghe circolari HSS
HSS circular blades

Materiale da lavorare Work-piece material	Velocità avanzamento Feed rate mm/min	Velocità periferica di taglio Cutting speed mt/min	Refrigerante Coolant
Acciaio con R<500 N/mm² Steel with R<500 N/mm ²	15÷25	70÷100	
Acciaio con R<800 N/mm² Steel with R<800 N/mm ²	10÷15	25÷35	
Acciaio con R<1000 N/mm² Steel with R<1000 N/mm ²	5÷10	30÷40	
Acciaio con R<1400 N/mm² Steel with R<1400 N/mm ²	5÷7	15÷25	
Acciaio inox Stainless steel	5÷7	25÷35	
Ghisa Cast iron	10÷15	50÷70	
Alluminio Aluminium	20÷40	70÷150	
Ottone e Bronzo Brass and bronze	20÷40	70÷150	
Rame Copper	20÷40	70÷150	
Plastica Plastics	20÷50	100÷200	

PARAMETRI DI TAGLIO DELLA SEGA CIRCOLARE IN METALLO DURO

Recommended cutting parameter chart for carbide band saw blades

18



Seghe circolari H.M.
H.M. circular blades

Materiale da lavorare Work-piece material	Velocità periferica di taglio Cutting speed (mt/sec.)	Velocità di avanzamento Feed rate (mt/min.)	Art 27050	Art 27055	Art 27060	Art 27070	Refrigerante Coolant
Legno tenero Soft wood	60÷90	10÷40					
Legno duro Hard wood	50÷70	10÷30					
Compensato truciolare Plywood-chipboard	60÷80	10÷20					
Plastica Plastics	25÷60	5÷10					
Alluminio Aluminium	20÷30	5÷8					
Ferro, Acciaio dolce Iron, Steel	20÷30	5÷8					
Leghe leggere Light alloys	20÷30	5÷8					

SCelta DELLE VELOCITÀ DI TAGLIO DEI MASCHI A MACCHINA, IN FUNZIONE DEL MATERIALE DA FILETTARE

Chart for machine taps selection and relative cutting speed in accordance with the materials to work

20



Maschi a macchina
Machine taps

Materiale da lavorare Work-piece material	Velocità periferica di taglio Cutting speed (m/sec.)	Refrigerante Coolant
Acciaio basso legato Low alloy steel	10÷20	
Acciai refrattari, Acciai per utensili Heat resistant steel, Tool steel	4÷8	
Acciai R>1200 N/mm² Steel R>1200N/mm ²	2÷5	
Acciaio inox Stainless steel	5÷10	
Leghe speciali Nimonic, Hastelloy	2÷4	
Ghisa sferoidale Spheroidal cast iron	6÷20	
Ghisa malleabile Malleable cast iron	6÷12	
Ottone truciolo corto Brass short chipping	20÷30	
Ottone truciolo lungo, Leghe di rame, leghe di zinco Brass long chipping, Cu alloy, Zn alloy	10÷15	
Bronzo Bronze	6÷15	
Alluminio truciolo corto Alu Short chipping	15÷30	
Alluminio truciolo lungo, Leghe di magnesio Alu long-chipping, Mg alloy	10÷20	
Titanio Titanium	3÷4	
Plastica e materiali termoplastici Thermoplastics	5÷15	
Materiali termoidurenti Thermosetting materials	5÷10	

Note / Notes: Valido per i fori ciechi e passanti / Suited for blind and through holes

Consigli / Tips: Utilizzare per spessori <1,5 Ø dell'utensile / To be used with thickness < 1,5 Ø of the tool

SCelta DEI MASCHI A MACCHINA CON ANELLI COLORATI IN FUNZIONE DEL MATERIALE DA FILETTARE

Chart for colored rings machine taps selection and relative cutting speed in accordance with the materials to work

21



Maschi a macchina
Machine taps

Materiale da lavorare Work-piece material	Velocità di taglio Cutting speed (m/min.)	Refrigerante Coolant	Art. 10 500	Art. 10504	Art. 10508	Art. 10510	Art. 10511	Art. 10513
Acciaio basso legato Low alloy steel	10÷20							
Acciai refrattari, Acciai per utensili Heat resistant steel, Tool steel	4÷8							
Acciai R>1200 N/mm² Steel R>1200N/mm ²	2÷5							
Acciaio inox Stainless steel	5÷10							
Leghe speciali Nimonic, Hastelloy	2÷4							
Ghisa sferoidale Spheroidal cast iron	6÷20							
Ghisa malleabile Malleable cast iron	6÷12							
Ottone truciolo corto Brass short chipping	20÷30							
Ottone truciolo lungo, Leghe di rame, leghe di zinco Brass long chipping, Cu alloy, Zn alloy	10÷15							
Bronzo Bronze	6÷15							
Alluminio truciolo corto Alu Short chipping	15÷30							
Alluminio truciolo lungo, Leghe di magnesio Alu long-chipping, Mg alloy	10÷20							
Titanio Titanium	3÷4							
Plastica e materiali termoplastici Thermoplastics	5÷15							
Materiali termoidurenti Thermosetting materials	5÷10							

Note / Notes: Valido per i fori ciechi e passanti / Suited for blind and through holes

Consigli / Tips: Utilizzare per spessori <1,5 Ø dell'utensile / To be used with thickness < 1,5 Ø of the tool

TABELLA DI CONVERSIONE DELLE FILETTATURE A POLLICE IN MISURE METRICHE

Conversion chart from metric to inch threads

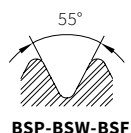
22



Metrico
Metric-Inches

FILETTATURA
THREADING OPERATIONS

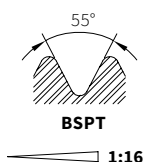
BSW



BSP-BSW-BSF

pollici inches	mm	pollici inches	mm	pollici inches	mm	pollici inches	mm
1/16-60	1,59	7/16-14	11,11	1.3/8-6	34,92	3"-3,5	76,20
3/32-48	2,38	1/2-12	12,70	1.1/2-6	38,10	3.1/4-3 1/4	82,55
1/8-40	3,17	9/16-12	14,28	1.5/8-5	41,28	3.1/2-3 1/4	88,90
5/32-32	3,96	5/8-11	15,87	1.3/4-5	44,45	3.3/4-3	95,24
3/16-24	4,76	3/4-10	19,05	1.7/8-4,5	47,63	4"-3	101,60
7/32-24	5,55	7/8-9	22,22	2"-4,5	50,80	4.1/2-2 7/8	114,30
1/4-20	6,35	1"-8	25,40	2.1/4-4	57,15	5"-2 3/4	127,00
5/16-18	7,93	1.1/8-7	28,57	2.1/2-4	63,50	5.1/2-2 5/8	139,70
3/8-16	9,52	1.1/4-7	31,75	2.3/4-3,5	69,85	6" 2,5	152,40

BSP - BSPT

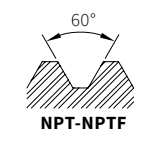


BSPT

1:16

pollici inches	mm	dist. di misura per BSPT dist. of the measure BSPT	pollici inches	mm	dist. di misura per BSPT dist. of the measure BSPT	pollici inches	mm	dist. di misura per BSPT dist. of the measure BSPT
1/8-28	9,72	10,10	1"-11	33,24	26,00	2.1/4-11	65,71	36,10
1/4-19	13,15	15,00	1.1/8-11	37,89	-	2.1/2-11	75,18	37,10
3/8-19	16,66	15,40	1.1/4-11	41,91	28,30	2.3/4-11	81,53	-
1/2-14	20,95	20,50	1.3/8-11	44,32	-	3"-11	87,88	40,20
5/8-14	22,90	20,10	1.1/2-11	47,80	28,30	4"-11	113,03	-
3/4-14	26,44	21,80	1.3/4-11	53,74	30,30	5"-11	138,43	-
7/8-14	30,20	24,45	2"-11	59,61	32,70			

NPT

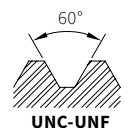


NPT-NPTF

1:16

pollici inches	mm	dist. di misura dist. of the measure	pollici inches	mm	dist. di misura dist. of the measure	pollici inches	mm	dist. di misura dist. of the measure
1/16-27	7,77	9,85	5/8-14	22,71	20,05	1.3/4-11,5	56,04	27,75
1/8-27	10,12	9,85	3/4-14	26,40	21,35	2"-11,5	59,91	32,15
1/4-18	13,46	14,65	1"-11,5	33,05	25,45	2.1/2-8	72,51	36,30
3/8-18	16,90	15,05	1.1/4-11,5	41,80	27,45	3"-8	88,42	39,40
1/2-14	21,06	20,05	1.1/2-11,5	47,87	27,45			

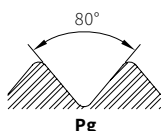
UNC-UNF



UNC-UNF

pollici inches	UNC	UNF	mm	pollici inches	UNC	UNF	mm	pollici inches	UNC	UNF	mm
n.1	64	72	1,85	n.12	24	28	5,48	5/8	11	18	15,87
n.2	56	64	2,18	3/16	24	32	4,76	3/4	10	16	19,05
n.3	48	56	2,51	1/4	20	28	6,35	7/8	9	14	22,22
n.4	40	48	2,84	5/16	18	24	7,93	1"	8	14	25,40
n.5	40	44	3,17	3/8	16	24	9,52	1.1/8	7	12	28,40
n.6	32	40	3,50	7/16	14	20	11,11	1.1/4	7	12	31,75
n.8	32	36	4,16	1/2	13	20	12,70	1.3/8	6	12	34,92
n.10	24	32	4,82	9/16	12	18	14,28	1.1/2	6	12	38,10

PG



Pg

n.	fil. per pollice threads per inch	mm	n.	fil. per pollice threads per inch	mm	n.	fil. per pollice threads per inch	mm
PG 7	20	12,50	PG 16	18	22,50	PG 42	16	54,00
PG 9	18	15,20	PG 21	16	28,30	PG 48	16	59,30
PG 11	18	18,60	PG 29	16	37,00			
PG 13,5	18	20,40	PG 36	16	47,00			

TABELLA RELATIVA AI PREFORI
DI MASCHIATURA
Tapping drill sizes chart

23

Maschi
Taps

FILETTATURA
THREADING OPERATIONS

M

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 1 x 0,25	0,75	M 2,3 x 0,4	1,9	M 7 x 1	6	M 20 x 2,5	17,5	M 45 x 4,5	40,5
M 1,1 x 0,25	0,85	M 2,5 x 0,45	2,05	M 8 x 1,25	6,8	M 22 x 2,5	19,5	M 48 x 5	43
M 1,2 x 0,25	0,95	M 2,6 x 0,45	2,1	M 9 x 1,25	7,8	M 24 x 3	21	M 52 x 5	47
M 1,4 x 0,3	1,1	M 3 x 0,5	2,5	M 10 x 1,5	8,5	M 27 x 3	24		
M 1,6 x 0,35	1,25	M 3,5 x 0,6	2,9	M 11 x 1,5	9,5	M 30 x 3,5	26,5	M 3 x 0,6	2,4
M 1,7 x 0,35	1,3	M 4 x 0,7	3,3	M 12 x 1,75	10,2	M 33 x 3,5	29,5	M 3,5 x 0,75	2,75
M 1,8 x 0,35	1,45	M 4,5 x 0,75	3,7	M 14 x 2	12	M 36 x 4	32	M 4 x 0,75	3,25
M 2 x 0,4	1,6	M 5 x 0,8	4,2	M 16 x 2	14	M 39 x 4	35	M 5 x 0,9	4,1
M 2,2 x 0,45	1,75	M 6 x 1	5	M 18 x 2,5	15,5	M 42 x 4,5	37,5		

MF

MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm
M 3 x 0,35	2,65	M 12 x 1	11	M 20 x 1,5	18,5	M 30 x 1,5	28,5	M 42 x 2	40
M 3,5 x 0,35	3,15	M 12 x 1,25	10,8	M 20 x 2	18	M 30 x 2	28	M 42 x 3	39
M 4 x 0,35	3,65	M 12 x 1,5	10,5	M 22 x 1	21	M 32 x 1,5	30,5	M 45 x 1,5	43,5
M 4 x 0,5	3,5	M 13 x 1	12	M 22 x 1,5	20,5	M 33 x 1,5	31,5	M 45 x 2	43
M 5 x 0,5	4,5	M 13 x 1,5	11,5	M 22 x 2	20	M 33 x 2	31	M 45 x 3	42
M 6 x 0,5	5,5	M 13 x 1,75	11,2	M 24 x 1	23	M 34 x 1,5	32,5	M 48 x 1,5	46,5
M 6 x 0,75	5,2	M 14 x 1	13	M 24 x 1,5	22,5	M 35 x 1,5	33,5	M 48 x 2	46
M 7 x 0,75	6,2	M 14 x 1,25	12,8	M 24 x 2	22	M 36 x 1,5	34,5	M 48 x 3	45
M 8 x 0,5	7,5	M 14 x 1,5	12,5	M 25 x 1	24	M 36 x 2	34	M 50 x 1,5	48,5
M 8 x 0,75	7,2	M 15 x 1	14	M 25 x 1,5	23,5	M 36 x 3	33	M 50 x 2	48
M 8 x 1	7	M 15 x 1,5	13,5	M 26 x 1	25	M 38 x 1,5	36,5	M 50 x 3	47
M 9 x 1	8	M 15 x 2	13	M 26 x 1,5	24,5	M 39 x 1,5	37,5	M 52 x 1,5	50,5
M 10 x 0,5	9,5	M 16 x 1	15	M 27 x 1	26	M 39 x 2	37	M 52 x 2	50
M 10 x 0,75	9,2	M 16 x 1,5	14,5	M 27 x 1,5	25,5	M 39 x 3	36	M 52 x 3	49
M 10 x 1	9	M 18 x 1	17	M 27 x 2	25	M 40 x 1,5	38,5		
M 10 x 1,25	8,8	M 18 x 1,5	16,5	M 28 x 1,5	26,5	M 40 x 2	38		
M 11 x 1	10	M 18 x 2	16	M 28 x 2	26	M 40 x 3	37		
M 12 x 0,75	10,2	M 20 x 1	19	M 30 x 1	29	M 42 x 1,5	40,5		

BSW

BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm
W 3/32	1,8	W 1/4	5,1	W 9/16	12	W 1.1/8	24,75	W 2"	44,5
W 1/8	2,6	W 5/16	6,5	W 5/8	13,5	W 1.1/4	27,75		
W 5/32	3,1	W 3/8	7,9	W 3/4	16,5	W 1.3/8	30,2		
W 3/16	3,6	W 7/16	9,3	W 7/8	19,25	W 1.1/2	33,5		
W 7/32	4,4	W 1/2	10,5	W 1"	22	W 1.3/4	38,5		

BSF

BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm
BSF 1/4	5,2	BSF 3/8	8,1	BSF 1/2	11	BSF 3/4	16,5	BSF 1"	22,5
BSF 5/16	6,6	BSF 7/16	9,5	BSF 5/8	14	BSF 7/8	19,5		

TABELLA RELATIVA AI PREFORI
DI MASCHIATURA
Tapping drill sizes chart

Maschi
Taps

FILETTATURA
THREADING OPERATIONS

UNC

UNC	Ø mm	UNC	Ø mm	UNC	Ø mm	UNC	Ø mm	UNC	Ø mm
No. 1-64	1,5	No. 10-24	3,9	9/16 - 12	12,2	1.3/8 - 6	30,75	3" - 4	70
No. 2-56	1,8	No. 12-24	4,5	5/8 - 11	13,5	1.1/2 - 6	34	3.1/4 - 4	76,2
No. 3-48	2,1	1/4 - 20	5,2	3/4 - 10	16,5	1.3/4 - 5	39,5	3.1/2 - 4	82,6
No. 4-40	2,3	5/16 - 18	6,6	7/8 - 9	19,5	2" - 4,5	51,5		
No. 5-40	2,6	3/8 - 16	8	1" - 8	22,25	2.1/4 - 4,5	51,5		
No. 6-32	2,85	7/16 - 14	9,4	1.1/8 - 7	25	2.1/2 - 4	51,5		
No. 8-32	3,5	1/2 - 13	10,8	1.1/4 - 7	28,25	2.3/4 - 4	63,5		

UNF

UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm
No. 0-80	1,3	No. 5-44	2,7	1/4-20	5,15	9/16-18	12,9	1.1/8-12	26,5
No. 1-72	1,6	No. 6-40	3	5/16-24	6,9	5/8-18	14,5	1.1/4-12	29,5
No. 2-64	1,9	No. 8-36	3,5	3/8-24	8,5	3/4-16	17,5	1.3/8-12	32,5
No. 3-56	2,1	No. 10-32	4,1	7/16-20	9,9	7/8-14	20,25	1.1/2-12	36
No. 4-48	2,4	No. 12-28	4,7	1/2-20	11,5	1"-12	23,25		

BSP

BSP	Ø mm	BSP	Ø mm	BSP	Ø mm	BSP	Ø mm	BSP	Ø mm
G 1/8	8,8	G 5/8	21	G 1.1/8	35,3	G 1.3/4	51,3	G 2.3/4	78,9
G 1/4	11,8	G 3/4	24,5	G 1.1/4	39,3	G 2"	57	G 3"	85,3
G 3/8	15,25	G 7/8	28,25	G 1.3/8	41,7	G 2.1/4	63,1		
G 1/2	19	G 1"	30,75	G 1.1/2	45,2	G 2.1/2	72,6		

BSPT

BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm
1/8-28	8,20	1/2-14	18,00	7/8-14	27,50	1.1/2-11	44,00	3"-11	84,00
1/4-19	11,00	5/8-14	20,25	1"-11	29,50	2"-11	56,00		
3/8-19	14,50	3/4-14	23,50	1.1/4-11	38,50	2.1/2-11	71,00		

NPT

NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm
1/16-27	6,25	3/8-18	14,5	1"-11,5	29	2"-11,5	56		
1/8-27	8,5	1/2-14	18	1.1/4-11,5	38	2.1/2-8	67		
1/4-18	11,2	3/4-14	23	1.1/2-11,5	44	3"-8	83		

PG

PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm
PG 7	11,4	PG 11	17,25	PG 16	21,25	PG 29	35,5	PG 42	52,5
PG 9	14	PG 13,5	19	PG 21	26,9	PG 36	45,5	PG 48	58

TABELLA RELATIVA AI PREFORI DI MASCHIATURA PER MASCHI A RULLARE
Drill size cutting taps chart for forming ta

Maschi a rullare
Forming taps

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 3 x 0,35	2,80	M 5 x 0,5	4,80	M 8 x 1	7,50	M 10 x 1,25	9,40	M 12 x 1,5	11,25
M 4 x 0,5	3,80	M 6 x 0,75	5,60	M 10 x 1	9,50	M 12 x 1,25	11,50	M 14 x 1,5	13,25

TABELLA
PER FILETTATURA ESTERNA
External thread chart

25

Filieri
Dies

FILETTATURA
THREADING OPERATIONS

M

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 1 x 0,25	0,97	M 2,3 x 0,4	2,23	M 4,5 x 0,75	4,41	M 12 x 1,75	11,83	M 33 x 3,5	32,73
M 1,1 x 0,25	1,07	M 2,5 x 0,45	2,43	M 5 x 0,8	4,90	M 14 x 2	13,82	M 36 x 4	35,70
M 1,2 x 0,25	1,17	M 2,6 x 0,45	2,53	M 5 x 0,9	4,89	M 16 x 2	15,82	M 39 x 4	38,70
M 1,4 x 0,3	1,36	M 3 x 0,5	2,92	M 6 x 1	5,88	M 18 x 2,5	17,79	M 42 x 4,5	41,69
M 1,6 x 0,35	1,54	M 3 x 0,6	2,91	M 7 x 1	6,88	M 20 x 2,5	19,79	M 45 x 4,5	41,69
M 1,7 x 0,35	1,64	M 3,5 x 0,6	3,41	M 8 x 1,25	7,87	M 22 x 2,5	21,79	M 48 x 5	47,66
M 1,8 x 0,35	1,74	M 3,5 x 0,75	3,41	M 9 x 1,25	8,87	M 24 x 3	23,77	M 52 x 5	51,66
M 2 x 0,4	1,93	M 4 x 0,7	3,91	M 10 x 1,5	9,85	M 27 x 3	26,77		
M 2,2 x 0,45	2,13	M 4 x 0,75	3,91	M 11 x 1,5	10,85	M 30 x 3,5	29,73		

MF

MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm
M 3 x 0,35	2,94	M 12 x 1	11,88	M 20 x 1,5	19,85	M 30 x 1,5	29,85	M 42 x 2	41,82
M 3,5 x 0,35	3,44	M 12 x 1,25	11,86	M 20 x 2	19,82	M 30 x 2	29,82	M 42 x 3	41,76
M 4 x 0,35	3,94	M 12 x 1,5	11,85	M 22 x 1	21,88	M 32 x 1,5	31,85	M 45 x 1,5	44,85
M 4 x 0,5	3,93	M 13 x 1	12,88	M 22 x 1,5	21,85	M 33 x 1,5	32,85	M 45 x 2	44,82
M 5 x 0,5	4,93	M 13 x 1,5	12,85	M 22 x 2	21,82	M 33 x 2	32,82	M 45 x 3	44,76
M 6 x 0,5	5,93	M 13 x 1,75	12,83	M 24 x 1	23,88	M 34 x 1,5	33,85	M 48 x 1,5	47,85
M 6 x 0,75	5,90	M 14 x 1	13,88	M 24 x 1,5	23,85	M 35 x 1,5	34,85	M 48 x 2	47,82
M 7 x 0,75	6,90	M 14 x 1,25	13,86	M 24 x 2	23,82	M 36 x 1,5	35,85	M 48 x 3	47,46
M 8 x 0,5	7,93	M 14 x 1,5	13,85	M 25 x 1	24,88	M 36 x 2	35,82	M 50 x 1,5	49,85
M 8 x 0,75	7,90	M 15 x 1	14,88	M 25 x 1,5	24,85	M 36 x 3	35,76	M 50 x 2	49,82
M 8 x 1	7,83	M 15 x 1,5	14,85	M 26 x 1	25,88	M 38 x 1,5	37,85	M 50 x 3	49,76
M 9 x 1	8,88	M 15 x 2	14,82	M 26 x 1,5	25,85	M 39 x 1,5	38,85	M 52 x 1,5	51,85
M 10 x 0,5	9,93	M 16 x 1	15,88	M 27 x 1	26,88	M 39 x 2	38,82	M 52 x 2	51,82
M 10 x 0,75	9,90	M 16 x 1,5	15,85	M 27 x 1,5	26,85	M 39 x 3	38,76	M 52 x 3	51,76
M 10 x 1	9,88	M 18 x 1	17,88	M 27 x 2	26,82	M 40 x 1,5	39,85		
M 10 x 1,25	9,86	M 18 x 1,5	17,85	M 28 x 1,5	27,85	M 40 x 2	39,82		
M 11 x 1	10,88	M 18 x 2	17,82	M 28 x 2	27,82	M 40 x 3	39,76		
M 12 x 0,75	11,90	M 20 x 1	19,88	M 30 x 1	29,88	M 42 x 1,5	41,85		

BSW

BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm
W 1/4	6,16	W 7/16	10,89	W 5/8	15,62	W 1"	25,08
W 5/16	7,76	W 1/2	12,43	W 3/4	18,76	W 1.1/8	28,21
W 3/8	9,30	W 9/16	13,92	W 7/8	21,89		

BSF

BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm
BSF 3/16	4,67	BSF 3/8	9,39	BSF 9/16	14,12	BSF 7/8	22,02
BSF 1/4	6,25	BSF 7/16	10,97	BSF 5/8	15,71	BSF 1"	25,17
BSF 5/16	7,82	BSF 1/2	12,54	BSF 3/4	18,85		

UNC

BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm
No. 1-64	1,79	No. 8-32	4,07	7/16-14	10,95	1"-8	25,16	2"-4.5	50,45
No. 2-56	2,12	No. 10-24	4,71	1/2-13	12,52	1.1/8-7	28,31	2.1/4-4.5	56,80
No. 3-48	2,44	No. 12-24	5,37	9/16-12	14,10	1.1/4-7	31,49	2.1/2-4	63,10
No. 4-40	2,76	1/4-20	6,22	5/8-11	15,68	1.3/8-6	34,63	2.3/4-4	69,45
No. 5-40	3,09	5/16-18	7,80	3/4-10	18,84	1.1/2-6	37,81	3"-4	75,80
No. 6-32	3,41	3/8-16	9,37	7/8-9	22	1.3/4-5	44,12		

TABELLA
PER FILETTATURA ESTERNA
External thread chart

Filiere
Dies

FILETTATURA
THREADING OPERATIONS

UNF

UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm
No. 0-80	1,47	No. 5-44	3,10	1/4-28	6,24	9/16-18	14,14	1.1/8-12	28,38
No. 1-72	1,79	No. 6-40	3,42	5/16-24	7,82	5/8-18	15,73	1.1/4-12	31,56
No. 2-64	2,12	No. 8-36	4,08	3/8-24	9,41	3/4-16	18,89	1.3/8-12	34,73
No. 3-56	2,44	No. 10-32	4,73	7/16-20	10,98	7/8-14	22,05	1.1/2-12	37,91
No. 4-48	2,77	No. 12-28	5,38	1/2-20	12,56	1"-12	25,21		

BSP

BSP	Ø mm	BSP	Ø mm	BSP	Ø mm	BSP	Ø mm	BSP	Ø mm
G 1/8	9,62	G 1/2	20,81	G 7/8	30,06	G 1.1/4	41,73	G 1.3/4	53,56
G 1/4	13,03	G 5/8	22,77	G 1"	33,07	G 1.3/8	44,14	G 2"	59,43
G 3/8	16,53	G 3/4	26,30	G 1.1/8	37,71	G 1.1/2	47,62		

NPT

NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm
1/16	8,17	1/4	14,10	1/2	21,85	1"	34,16	1.1/2	48,87
1/8	10,55	3/8	17,52	3/4	27,16	1.1/4	42,74	2"	60,95

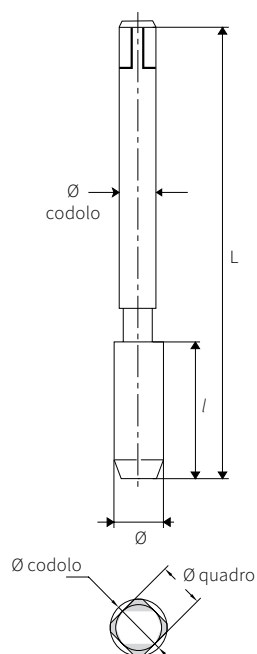
PG

PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm
PG 7	12,4	PG 11	18,5	PG 16	22,4	PG 29	36,85	PG 42	53,85
PG 9	15,1	PG 13,5	20,3	PG 21	28,15	PG 36	46,85	PG 48	59,15

DIMENSIONI TIPICHE DI CODOLO E QUADRO DEI MASCHI,
IN FUNZIONE DELLA NORMA DI PRODUZIONE
Dimension of shank and square depending on the applicable standard

26

Maschi a rullare
Forming taps



Ø Codolo Shank	Ø Quadro Square	DIN 352	DIN 371	DIN 376	DIN 374	ISO 529
2,5	2,1	M1÷1,8	M1÷1,8	M3,5	M3,5	M1÷2
2,8	2,1	M2÷2,5	M2÷2,5	M4	M4	M2,2÷2,5
3,2	2,4					M3
3,5	2,7	M3	M3	M5	M5	M3,5
4	3	M3,5	M3,5			M4
4,5	3,4	M4	M4	M6	M5,5÷6	M4,5
6	4,9	M5÷8	M5÷6	M8	M8	M6
7	5,5	M10		M10	M9÷10	
8	6,2		M8			M8
9	7	M12		M12	M12	
10	8		M10			M10
11	9	M14		M14	M14	
12	9	M16		M16	M16	
14	11	M18		M18	M18	
16	12	M20		M20	M20	M22
18	14,5	M22÷24		M22÷24	M22÷24	
20	16	M27		M27	M27÷28	M27÷M30
22	18	M30		M30	M30	
25	20	M33		M33	M33	
28	22	M36		M36	M36	
32	24	M39÷42		M39÷42	M39÷42	M50
36	29	M45÷48		M45÷48	M45÷48	
40	32	M52		M52		

DIAMETRO DELLA PUNTA IN FUNZIONE DELLE DIMENSIONI DEL FILETTO DA RIPRISTINARE

Drill diameter according to thread dimension to be restored

27

DIN 8140 - ISO 2/6H

FILETTATURA
THREADING OPERATIONS

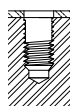


K-COIL

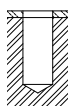
Acciaio inox
austenitico 18/8
Austenitic
stainless steel 18/8

10606 - M/MF

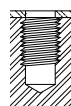
	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm
M	2 x 0,4	2,10	10 x 1,25	10,30	18 x 2,5	18,60	27 x 3	27,75
	2,2 x 0,45	2,30	10 x 1	10,30	18 x 2	18,50	27 x 2	27,50
	2,5 x 0,45	2,60	11 x 1,5	11,40	18 x 1,5	18,50	27 x 1,5	27,50
	3 x 0,5	3,20	12 x 1,75	12,40	20 x 2,5	20,60	28 x 1,5	28,50
	3,5 x 0,6	3,70	12 x 1,5	12,40	20 x 2	20,50	30 x 3,5	31,00
	4 x 0,7	4,20	12 x 1,25	12,30	20 x 1,5	20,50	30 x 2	30,50
	5 x 0,8	5,20	12 x 1	12,30	22 x 2,5	22,60	30 x 1,5	30,50
	6 x 1	6,30	14 x 2	14,50	22 x 2	22,50	33 x 3,5	34,00
	7 x 1	7,30	14 x 1,5	14,40	22 x 1,5	22,50	33 x 2	33,50
	8 x 1,25	8,30	14 x 1,25	14,40	24 x 3	24,75	36 x 4	37,00
	8 x 1	8,30	14 x 1	14,30	24 x 2	24,50	36 x 3	37,00
	9 x 1,25	9,30	16 x 2	16,50	24 x 1,5	24,50	36 x 2	36,50
	10 x 1,5	10,40	16 x 1,5	16,40	26 x 1,5	26,50	36 x 1,5	36,50



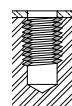
Filetto danneggiato
Damaged thread



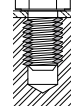
Preforo
Drill



Maschiatura
Tap



Inserimento K-coil
K-coil



Serraggio vite
Screw

10607 - UNC

	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm
N.	8 x 32	4,40	5/16 x 18	8,30	9/16 x 12	14,80	1" x 8	26,25
	10 x 24	5,10	3/8 x 16	9,90	5/8 x 11	16,50	1.1/8 x 7	29,50
	12 x 24	5,70	7/16 x 14	11,60	3/4 x 10	19,75	1.1/4 x 7	33,00
UNC	1/4 x 20	6,70	1/2 x 13	13,00	7/8 x 9	23,00	1.1/2 x 6	39,50

10608 - UNF

	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm
N.	8 x 36	4,40	3/8 x 24	9,80	5/8 x 18	16,25	1.1/8 x 12	29,00
	10 x 32	5,10	7/16 x 20	11,50	3/4 x 16	19,50	1.1/4 x 12	32,50
	1/4 x 28	6,60	1/2 x 20	13,00	7/8 x 14	22,75	1.1/2 x 12	38,50
UNF	5/16 x 24	8,20	9/16 x 18	14,80	1" x 12	26,00		

10609 - BSW

	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm
	1/8 x 40	3,40	5/16 x 18	8,30	1/2 x 12	13,00	3/4 x 10	20,00
	3/16 x 24	5,10	3/8 x 16	9,90	9/16 x 12	14,80	7/8 x 9	23,00
	1/4 x 20	6,70	7/16 x 14	11,60	5/8 x 11	16,70	1" x 8	26,50

10604 - BSF

	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm	Filetto Thread	Ø Drill size mm
	3/16 x 32	5,00	3/8 x 20	9,90	9/16 x 16	14,80	7/8 x 11	22,70
	1/4 x 26	6,60	7/16 x 18	11,60	5/8 x 14	16,40	1" x 10	26,50
	5/16 x 22	8,30	1/2 x 16	13,00	3/4 x 12	19,50		
G	1/8 x 28	10,00	3/8 x 19	17,10	5/8 x 14	23,40	7/8 x 14	30,60
	1/4 x 19	13,60	1/2 x 14	21,50	3/4 x 14	27,00	1" x 11	33,70

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI METRICI

Metric wire-thread insert dimensions

28



1.5 D

Metric

	Ø Punta per preforo Ø Drill size	Ø Coil non installato min Ø Coil free min	Ø Coil non installato max Ø Coil free max	Profondità di foratura min Drilling depth	Profondità di filettatura min Threading depth	Lunghezza nominale Coil installato Coil lenght inside its site
	mm	mm	mm	mm	mm	
2x0,4	2,1	2,49	2,70	4,80	4,40	3,00
2,2x0,45	2,3	2,76	3,00	5,33	4,88	3,30
2,5x0,45	2,6	3,05	3,70	5,78	5,33	3,75
3x0,5	3,2	3,61	4,35	6,75	6,25	4,50
3,5x0,6	3,7	4,24	4,95	7,95	7,35	5,25
4x0,7	4,2	4,86	5,60	9,15	8,45	6,00
5x0,8	5,2	5,98	6,80	11,10	10,30	7,50
6x1	6,3	7,23	7,95	13,50	12,50	9,00
7x1	7,3	8,22	9,20	15,00	14,00	10,50
8x1,25	8,3	9,53	10,35	17,63	16,38	12,00
8x1	8,3	9,39	10,25	16,50	15,50	12,00
9x1,25	9,4	10,52	11,16	19,13	17,88	13,50
10x1,5	10,4	11,83	12,50	21,75	20,25	15,00
10x1,25	10,3	11,74	12,65	20,63	19,38	15,00
10x1	10,3	11,41	12,50	19,50	18,50	15,00
11x1,5	11,4	12,82	13,59	23,25	21,75	16,50
12x1,75	12,5	14,13	15,00	25,88	24,13	18,00
12x1,5	12,4	14,09	15,20	24,75	23,25	18,00
12x1,25	12,3	13,76	15,00	23,63	22,38	18,00
12x1	12,3	13,43	14,49	22,50	21,50	18,00
14x2	14,5	16,43	17,35	30,00	28,00	21,00
14x1,5	14,4	16,11	17,25	27,75	26,25	21,00
14x1,25	14,3	15,78	17,03	26,63	25,38	21,00
14x1	14,3	15,45	16,68	25,50	24,50	21,00
16x2	16,5	18,41	19,60	33,00	31,00	24,00
16x1,5	16,5	18,13	19,60	30,75	29,25	24,00
18x2,5	18,8	21,04	22,00	38,25	35,75	27,00
18x2	18,5	20,80	21,85	36,00	34,00	27,00
18x1,5	18,5	20,15	21,75	33,75	32,25	27,00
20x2,5	20,8	23,02	24,40	41,25	38,75	30,00
20x2	20,5	22,82	24,05	39,00	37,00	30,00
20x1,5	20,5	22,17	24,00	36,75	35,25	30,00
22x2,5	22,8	25,00	26,90	44,25	41,75	33,00
22x2	22,5	24,84	26,50	42,00	40,00	33,00
22x1,5	22,5	24,19	26,45	39,75	38,25	33,00
24x3	25,0	27,62	29,00	49,50	46,50	36,00
24x2	24,5	26,86	29,10	45,00	43,00	36,00
24x1,5	24,5	26,21	28,28	42,75	41,25	36,00
26x1,5	26,5	28,23	30,46	45,75	44,25	39,00
27x3	28,0	30,59	32,40	54,00	51,00	40,50
27x2	27,5	29,89	32,30	49,50	47,50	40,50
30x3,5	31,0	34,20	35,81	60,75	57,25	45,00
30x2	30,5	32,92	35,70	54,00	52,00	45,00
33x3,5	34,0	37,17	38,80	65,25	61,75	49,50
33x2	33,5	35,95	39,20	58,50	56,50	49,50
36x4	37,0	40,78	42,67	72,00	68,00	54,00
36x3	37,0	40,30	42,70	67,50	64,50	54,00

FILETTATURA
THREADING OPERATIONS

NUMERO DI SPIRE DEGLI INSERTI FILETTATI METRICI IN FUNZIONE DELLA LUNGHEZZA DELL'INSERTO

Number of turns of the coil depending on the insert length

29

FILETTATURA
THREADING OPERATIONS

	N. spire max	N. spire max	N. spire max	N. spire max	N. spire max	N. spire max	N. spire max	N. spire max	N. spire max	N. spire max	N. spire max
	N. max	N. max	N. max	N. max	N. max	N. max	N. max	N. max	N. max	N. max	N. max
	1 D		1,5 D		2 D		2,5 D		3 D		
2x0,4	3,3	3,0	5,7	5,2	8,1	7,4	10,5	9,6	13,0	11,8	
2,2x0,45	3,2	2,9	5,5	5,0	7,9	7,1	10,3	9,3	12,6	11,2	
2,5x0,45	3,8	3,1	6,5	5,2	9,2	7,4	11,9	9,5	14,6	11,9	
3x0,5	4,3	3,4	7,2	5,8	10,1	8,2	13,1	10,5	16,0	12,2	
3,5x0,6	4,1	3,4	7,0	5,8	9,8	8,2	12,6	10,5	15,5	12,2	
4x0,7	4,0	3,4	6,8	5,7	9,6	8,1	12,3	10,5	15,1	12,2	
5x0,8	4,5	3,9	7,6	6,5	10,6	9,2	13,7	11,8	16,7	14,6	
6x1	4,3	3,8	7,2	6,4	10,1	9,1	13,1	11,7	16,0	14,5	
7x1	5,3	4,6	8,7	7,7	12,1	10,7	15,6	13,7	19,0	16,8	
8x1,25	4,7	4,2	7,8	7,1	10,9	9,9	14,1	12,8	17,2	15,9	
8x1	6,1	5,6	10,0	9,1	13,8	12,5	17,7	16,0	21,5	19,5	
9x1,25	5,5	5,1	9,0	8,4	12,5	11,7	16,1	15,0	19,6	18,3	
9x1	7,1	6,5	11,5	10,5	15,8	14,5	20,2	18,5	24,5	22,5	
10x1,5	4,9	4,6	8,2	7,7	11,5	10,8	14,7	13,8	18,0	16,9	
10x1,25	6,1	5,6	10,0	9,2	13,8	12,7	17,7	16,3	21,5	19,8	
10x1	8,1	7,3	12,9	11,7	17,8	16,1	22,6	20,5	27,5	24,9	
11x1,5	5,6	5,2	9,2	8,6	12,8	12,0	16,4	15,4	20,0	18,7	
11x1,25	6,9	6,4	11,2	10,3	15,4	14,2	19,7	18,1	23,9	22,0	
11x1	9,1	8,4	14,4	13,3	19,8	18,2	25,1	23,1	30,4	28,0	
12x1,75	5,1	4,8	8,5	7,9	11,9	11,1	15,2	14,2	18,6	17,3	
12x1,5	6,1	5,6	10,0	9,2	13,8	12,7	17,7	16,2	21,5	19,8	
12x1,25	7,7	7,0	12,4	11,2	17,0	15,5	21,6	19,7	26,3	23,9	
12x1	10,1	9,3	15,9	14,7	21,7	20,0	27,6	25,4	33,4	30,8	
13x1,75	5,7	5,3	9,4	8,7	13,0	12,2	16,7	15,6	20,3	19,0	
13x1,5	6,8	6,2	11,0	10,1	15,2	13,9	19,3	17,8	23,5	21,6	
13x1,25	8,5	7,8	13,5	12,5	18,6	17,1	23,6	21,7	28,7	26,4	
14x2	5,3	5,0	8,7	8,2	12,1	11,4	15,6	14,6	19,0	17,9	
14x1,5	7,5	6,9	12,0	11,1	16,5	15,3	21,0	19,4	25,5	23,6	
14x1,25	9,3	8,6	14,7	13,6	20,2	18,6	25,6	23,6	31,0	28,6	
14x1	12,1	11,1	18,9	17,4	25,7	23,7	32,5	30,0	39,3	36,2	
15x2	5,8	5,4	9,5	8,8	13,1	12,3	16,8	15,7	20,5	19,2	
15x1,25	8,1	7,5	12,9	11,9	17,8	16,4	22,6	20,8	27,5	25,3	
16x2	6,3	5,9	10,2	9,5	14,2	13,2	18,1	16,9	22,0	20,5	
16x1,5	8,8	8,0	13,9	12,8	19,1	17,5	24,3	22,3	29,4	27,0	
18x2,5	5,5	5,2	9,0	8,6	12,5	11,9	16,1	15,3	19,6	18,6	
18x2	7,1	6,7	11,5	10,9	15,8	15,0	20,2	19,1	24,5	23,2	
18x1,5	10,1	9,3	15,9	14,6	21,7	20,0	27,6	25,4	33,4	30,7	
20x2,5	6,3	5,9	10,2	9,6	14,2	13,3	18,1	16,9	22,0	20,6	
20x2	8,1	7,7	12,9	12,2	17,8	16,8	22,6	21,4	27,5	25,9	
20x1,5	11,4	10,5	17,9	16,4	24,4	22,4	30,9	28,3	37,4	34,3	
22x2,5	7,1	6,5	11,4	10,5	15,8	14,5	20,1	18,5	24,5	22,5	
22x2	9,1	8,5	14,4	13,4	19,8	18,4	25,1	23,4	30,4	28,4	
22x1,5	12,7	11,6	19,9	18,1	27,0	24,6	34,2	31,1	41,3	37,6	
24x3	6,3	5,9	10,2	9,7	14,2	13,4	18,1	17,1	22,0	20,9	
24x2	10,1	9,2	15,9	14,6	21,7	19,9	27,6	25,3	33,4	30,6	
24x1,5	14,0	12,9	21,8	20,1	29,7	27,3	37,5	34,5	45,3	41,7	
26x1,5	15,4	14,2	23,8	22,0	32,3	29,8	40,8	37,6	49,2	45,4	
27x3	7,3	6,8	11,7	11,0	16,2	15,2	20,6	19,3	25,1	23,5	
27x2	11,6	10,6	18,1	16,7	24,7	22,7	31,3	28,8	37,9	34,8	
30x3,5	6,9	6,5	11,1	10,5	15,3	14,5	19,5	18,6	23,8	22,6	
30x3	8,1	7,6	12,9	12,2	17,8	16,8	22,6	21,3	27,5	25,9	
30x2	13,0	12,0	20,4	18,7	27,7	25,4	35,0	32,1	42,3	38,8	
33x3,5	7,7	7,4	12,4	11,8	17,0	16,2	21,7	20,7	26,4	25,1	
33x3	9,1	8,5	14,4	13,5	19,8	18,5	25,1	23,6	30,4	28,6	
33x2	14,5	13,3	22,6	20,6	30,6	28,0	38,7	35,3	46,8	42,7	
36x4	7,3	6,9	11,7	11,2	16,2	15,4	20,6	19,6	25,1	23,8	
36x3	10,1	9,5	15,9	14,9	21,7	20,4	27,6	25,9	33,4	31,4	
39x4	8,0	7,7	12,9	12,2	17,7	16,8	22,5	21,4	27,3	26,0	
42x4,5	7,6	7,3	12,2	11,8	16,8	16,2	21,5	20,7	26,1	25,1	
42x3	12,1	11,4	18,9	17,8	25,7	24,2	32,5	30,6	39,3	37,1	

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI UNC

UNC wire-thread insert dimensions

30



UNC

	Ø Punta per preforo Ø Drill size mm	Ø Coil non installato min Ø Coil free min mm	Ø Coil non installato max Ø Coil free max mm	Profondità di foratura min Drilling depth mm	Profondità di filettatura min Threading depth mm	Lunghezza nominale Coil installato Coil lenght inside its site mm	N. spire del Coil min N coil min	N. spire del Coil max N coil max
NO. 8 x 32	4,4	5,08	5,59	9,83	9,02	6,25	5,50	6,10
NO.10 x 24	5,1	6,10	6,60	11,99	10,92	7,24	4,60	5,00
NO.12 x 24	5,7	6,86	7,11	12,98	11,94	8,23	5,60	6,00
1/4 x 20	6,7	7,87	8,38	15,24	13,97	9,53	5,30	5,70
5/16 x 18	8,3	9,65	10,16	18,24	16,84	11,91	6,30	6,70
3/8 x 16	9,9	11,43	11,94	21,44	19,84	14,27	6,80	7,20
7/16 x 14	11,6	13,21	13,97	24,82	23,01	16,66	7,00	7,40
1/2 x 13	13,0	14,99	15,75	27,84	25,88	19,05	7,50	8,00
9/16 x 12	15,0	16,76	17,53	30,96	28,83	21,44	7,90	8,40
5/8 x 11	16,5	18,80	19,56	34,21	31,90	23,80	8,10	8,50
3/4 x 10	19,8	22,10	23,11	40,01	37,47	28,58	9,00	9,50
7/8 x 9	23,0	25,65	26,67	46,02	43,21	33,32	9,60	10,00
1' x 8	26,2	29,21	30,48	52,37	49,20	38,10	9,80	10,20
1.1/8 x 7	29,5	33,02	34,54	59,18	55,55	42,85	9,60	10,10
1.1/4 x 7	32,5	36,07	37,59	63,96	60,33	47,63	10,90	11,40
1.1/2 x 6	39,5	43,18	44,96	76,20	71,96	57,15	11,20	11,70

FILETTATURA
THREADING OPERATIONS

DIMENSIONI TIPICHE DI CODOLO E QUADRO DEI MASCHI, IN FUNZIONE DELLA NORMA DI PRODUZIONE

Dimension of shank and square depending on the applicable standard

31



UNF

	Ø Punta per preforo Ø Drill size mm	Ø Coil non installato min Ø Coil free min mm	Ø Coil non installato max Ø Coil free max mm	Profondità di foratura min Drilling depth mm	Profondità di filettatura min Threading depth mm	Lunghezza nominale Coil installato Coil lenght inside its site mm	N. spire del Coil min N coil min	N. spire del Coil max N coil max
NO. 8 x 36	4,4	5,08	5,59	9,42	8,71	6,25	6,1	6,9
NO.10 x 32	5,1	5,84	6,60	10,82	10,01	7,24	6,4	7,2
1/4 x 28	6,6	7,62	8,38	13,61	12,70	9,53	7,7	8,5
5/16 x 24	8,2	9,40	10,16	16,66	15,60	11,91	8,5	9,2
3/8 x 24	9,8	10,92	11,94	19,05	17,98	14,27	10,5	11,4
7/16 x 20	11,5	12,95	13,97	22,38	21,11	16,66	10,2	11,1
1/2 x 20	13,0	14,48	15,75	24,77	23,50	19,05	11,9	12,9
9/16 x 18	14,7	16,26	17,53	27,76	26,37	21,44	12,2	13,3
5/8 x 18	16,3	17,78	19,30	30,15	28,75	23,80	13,8	14,9
3/4 x 16	19,5	21,34	22,86	35,71	34,14	28,58	14,7	15,9
7/8 x 14	22,5	24,89	26,67	41,50	39,67	33,32	15,1	16,3
1' x 12	26,0	28,45	30,48	47,63	45,52	38,10	14,8	16
1.1/8 x 12	29,5	31,75	33,78	52,37	50,27	42,85	16,9	18,2
1.1/4 x 12	32,5	34,80	37,34	57,15	55,04	47,63	19	20,4
1.1/2 x 12	38,5	41,15	44,45	66,68	64,57	57,15	23,1	24,9
1.1/2 x 6	39,5	43,18	44,96	76,20	71,96	57,15	11,20	11,70

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSW

BSW wire-thread insert dimensions

32



BSW

	Ø Punta per preforo Ø Drill size mm	Ø Coil non installato min Ø Coil free min mm	Ø Coil non installato max Ø Coil free max mm	Profondità di foratura min Drilling depth mm	Profondità di filettatura min Threading depth mm	Lunghezza nominale Coil installato Coil lenght inside its site mm	N. spire del Coil min N coil min	N. spire del Coil max N coil max
1/8 x 40	3,4	3,81	4,32	7,62	6,99	4,75	5,1	5,8
3/16 x 24	5,0	5,84	6,60	11,91	10,85	7,14	4,6	5,1
1/4 x 20	6,7	7,87	8,38	15,24	13,97	9,53	5,4	5,9
5/16 x 18	8,3	9,40	10,16	18,24	16,84	11,91	6,4	6,9
3/8 x 16	10,0	11,18	11,94	21,44	19,84	14,27	6,9	7,4
7/16 x 14	11,6	13,21	13,97	24,82	23,01	16,66	7,1	7,6
1/2 x 12	13,0	14,99	16,00	28,58	26,47	19,05	7,0	7,4
9/16 x 12	14,8	16,51	17,53	30,96	28,83	21,44	8,0	8,6
5/8 x 11	16,7	18,29	19,56	34,21	31,90	23,80	8,2	8,7
3/4 x 10	20,0	21,84	22,86	40,01	37,47	28,58	9,2	9,7
7/8 x 9	23,2	25,15	26,67	46,02	43,21	33,32	9,7	10,2
1" x 8	26,5	28,70	30,48	52,37	49,20	38,10	9,9	10,4

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSF

BSF wire-thread insert dimensions

33



BSF

	Ø Punta per preforo Ø Drill size mm	Ø Coil non installato min Ø Coil free min mm	Ø Coil non installato max Ø Coil free max mm	Profondità di foratura min Drilling depth mm	Profondità di filettatura min Threading depth mm	Lunghezza nominale Coil installato Coil lenght inside its site mm	N. spire del Coil min N coil min	N. spire del Coil max N coil max
3/16 x 32	5,0	5,84	6,35	10,72	9,91	7,14	6,5	7,2
1/4 x 26	6,6	7,62	8,38	13,92	12,95	9,53	7,1	7,9
5/16 x 22	8,3	9,40	10,16	17,09	15,95	11,91	7,7	8,5
3/8 x 20	9,8	11,18	12,19	19,99	18,72	14,27	8,6	9,4
7/16 x 18	11,6	12,95	14,22	23,01	21,62	16,66	9,1	10,0
1/2 x 16	13,2	14,73	16,00	26,19	24,61	19,05	9,3	10,2
9/16 x 16	14,8	16,26	17,78	28,58	26,97	21,44	10,6	11,7
5/8 x 14	16,3	18,29	19,56	31,98	30,15	23,80	10,4	11,3
3/4 x 12	19,5	21,84	23,37	38,10	35,99	28,58	10,8	11,7
7/8 x 11	22,8	25,15	27,18	43,74	41,43	33,32	11,6	12,6
1" x 10	26,2	28,70	30,99	49,53	46,99	38,10	12,1	13,2

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSP

BSP wire-thread specific insert dimensions

34



BSP

	Ø Punta per preforo Ø Drill size mm	Ø Coil non installato min Ø Coil free min mm	Ø Coil non installato max Ø Coil free max mm	Profondità di foratura min Drilling depth mm	Profondità di filettatura min Threading depth mm	Lunghezza nominale Coil installato Coil lenght inside its site mm	N. spire del Coil min N coil min	N. spire del Coil max N coil max
1/8 x 28	10,0	10,92	11,94	8,84	7,92	4,75	3,2	3,6
1/4 x 19	13,6	14,99	16,26	15,54	14,20	9,53	5	5,4
3/8 x 19	17,1	18,54	20,07	20,29	18,97	14,27	8,2	8,9
1/2 x 14	21,5	23,37	25,15	27,20	25,40	19,05	8,1	8,8
5/8 x 14	23,4	25,40	27,43	31,95	30,15	23,80	10,4	11,3
3/4 x 14	27,0	28,96	31,24	36,73	34,93	28,58	12,9	13,9
7/8 x 14	30,5	32,77	35,31	41,50	39,67	33,32	15,3	16,5
1" x 11	33,7	36,32	39,12	48,49	46,18	38,10	13,6	14,7

VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER ALESATORI IN FUNZIONE DEL MATERIALE DA LAVORARE

Cutting speed chart in m/min for reamers according to the work-piece material

35



Alesatori
Reamers

Materiale da lavorare Work-piece material	Velocità di taglio Cutting speed (m/min)
Acciaio con R<550 MPa Steel with R<550 MPa	10÷15
Acciaio con 550<R<850 MPa Steel with 550<R<850 MPa	12÷15
Acciaio 850<R<1200 MPa Steel with 850<R<1200 MPa	7÷10
Acciaio inox austenitico Austenitic stainless steel	6÷8
Acciaio inox ferritico o martensitico Ferritic and martensitic stainless steel	5÷6
Acciaio inox duplex o alto legato Duplex and high alloy stainless steel	4÷5
Ghisa nodulare Nodular cast iron	9÷11
Ghisa lamellare Lamellar cast iron	13÷15
Rame e sue leghe a truciolo lungo Copper and long chip alloys	16÷20
Rame e sue leghe a truciolo corto Copper and short chip alloys	20÷24
Plastica Plastics	11÷13
Polimeri termoindurenti Thermosetting polymers	7÷10

Utilizzare valori di avanzamento più elevati rispetto alle operazioni di foratura, perché in alesatura si asporta un minor volume di materiale. Inoltre si utilizzano velocità di taglio inferiori per evitare il surriscaldamento dell'utensile e del pezzo in lavorazione.

Use higher feed rates than drilling operations, because a smaller volume of material is removed in reaming. Furthermore, lower cutting speeds are used to prevent overheating of the tool and the work-piece material.)

VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER FRESE FRONTALI IN FUNZIONE DEL MATERIALE DA LAVORARE

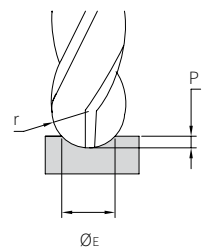
Cutting speed chart in m/min for end mills according to the work-piece material

36



Frese frontali
End mills

Materiale da lavorare Work-piece material	Velocità di taglio Cutting speed (m/min) HSS-CO	Velocità di taglio Cutting speed (m/min) HSS-CO+TiAlN	Velocità di taglio Cutting speed (m/min) HM
Acciaio con R<550 MPa Steel with R<550 MPa	15÷25	25÷40	40÷80
Acciaio con 550<R<850 MPa Steel with 550<R<850 MPa	10÷15	15÷30	30÷45
Acciaio 850<R<1200 MPa Steel with 850<R<1200 MPa	12÷20	20÷25	25÷30
Acciaio inox austenitico Austenitic stainless steel	12÷15	15÷20	20÷25
Acciaio inox ferritico o martensitico Ferritic and martensitic stainless steel	8÷12	12÷20	20÷22
Acciaio inox duplex o alto legato Duplex and high alloy stainless steel	5÷8	8÷10	10÷12
Ghisa nodulare Nodular cast iron	20÷30	30÷40	40÷50
Ghisa lamellare Lamellar cast iron	15÷20	20÷30	30÷60
Rame e sue leghe a truciolo lungo Copper and long chip alloys	50÷100	100÷110	110÷220
Rame e sue leghe a truciolo corto Copper and short chip alloys	50÷100	100÷170	170÷300
Plastica Plastics	50÷100	100÷170	170÷300
Polimeri termoindurenti Thermosetting polymers	20÷30	30÷45	45÷60



$$n^{\circ} \text{ giri/min (r.p.m.)} = \frac{Vt \text{ (Mt/min)} \times 1000}{3,14 \times \varnothing \text{ (mm)}}$$

Nel caso di frese frontali raggiate usare \varnothing_E al posto di \varnothing
When using ball nose end mills please insert \varnothing_E instead of \varnothing

$$\varnothing_E = 2\sqrt{P(2r-P)}$$

Tasso di rimozione del materiale T
Material removing rate T

$$T = \frac{P \times R \times A}{1000} \frac{\text{Cm}^3}{\text{min}}$$

P Profondità assiale (mm) Axial depth
R Profondità radiale (mm) Radial depth
A Avanzamento (mm/min) Feed

CARATTERISTICHE DEL RIVESTIMENTO AL TiN

Features of TiN coating

TiN

Il rivestimento monostrato TiN ha lo scopo di incrementare la resistenza a fenomeni di usura e ossidazione cui gli utensili sono sottoposti durante le lavorazioni di foratura: ha ottime caratteristiche di microdurezza (HV 0.05 2300), un basso coefficiente di attrito (0.4), una temperatura massima di esercizio pari a 500°C. Il rivestimento di pochi μm , depositato per via fisica mediante vapore (Physical Vapour Deposition), consente pertanto di aumentare la vita utile degli utensili da taglio, migliorando anche la finitura superficiale ed il conseguente scorrimento dei trucioli di lavorazione.

TiN monolayer coating can increase both wear and oxidation resistance of every tool. It has high hardness (HV 0.05 2300), low friction coefficient (0.4), maximum working temperature 500°C. The coating thickness is very low (μm) and it's produced by Physical Vapour Deposition. TiN coating increases the life cycle of the tool, also improving the surface finishing and the drilling chips removal.



CARATTERISTICHE DEL RIVESTIMENTO AL TiAlN

Features of TiAlN coating

TiAlN

È un esclusivo rivestimento PVD che permette il taglio a secco con elevatissimi parametri di taglio e, quindi, con grandissimi rendimenti. Sopporta, infatti temperature di lavoro elevatissime, sino a 800° C, grazie alle caratteristiche uniche del rivestimento TiAlN: supercompatto e durissimo (3300 HV 0,05), con conducibilità termica molto bassa (0,05), basso coefficiente di attrito (0,3), ottima tenacità. Il forte calore sviluppato nella foratura (> 400° C), genera, in ambiente ossidante, Al₂O₃, particolarmente resistente alle elevate sollecitazioni termiche, mentre il substrato di TiAlN garantisce una elevata resistenza meccanica. È pertanto adatto al taglio dei materiali fortemente abrasivi (ghisa, leghe Si-Al) degli acciai duri e pastosi come l'acciaio inossidabile, ma anche degli acciai basso legati purché si incrementino notevolmente i 2 parametri di taglio fondamentali: la velocità e l'avanzamento (sino a 2 volte i valori di un utensile HSS convenzionale non rivestito).

This exclusive PVD coating makes dry cutting possible to the highest cutting standards and performance levels. The drill can withstand extremely high working temperatures of up to 800° C on account of the unique properties of the TiAlN coating, namely, it is ultra-thin and exceptionally hard (3300 HV0,05) with extremely low thermal conductivity (0,05) low friction coefficient (0,3) and excellent toughness. The phenomenal heat created during drilling (>400°C) generates Al₂O₃, in oxidizing environments which is particularly resilient to high temperatures whilst the substrate in TiAlN guarantee high mechanical resistance. It is thus suitable for cutting highly abrasive materials (cast iron, Si-Al alloys) and hard, pasty steel such as stainless steel. Nonetheless, it is equally suitable for low alloy steel providing the most important cutting settings (speed and feed) are increased by up to twice the values used for conventional, uncoated HSS tools.



**CORRISPONDENZA MISURE METRICHE
E MISURE IN POLLICI PER PUNTE DA EDILIZIA**
Correspondence of metric and inches dimensions for construction tips

37

Dimensioni in mm <i>Dimensions (mm)</i>	Dimensioni in pollici <i>Dimensione (inches)</i>
3,5X110	9/64x4
3,5X135	9/64x5
4X110	5/32x4
4X160	5/32x6
5X110	3/16x4
5X160	3/16x6
5X210	13/64x8
5X310	3/16x12
5,5X110	7/32x4
5,5X160	7/32x6
5,5X210	7/32x8
5,5X260	7/32x10
5,5X310	7/32x12
5,5X460	7/32x18
6X110	15/64x4
6X160	15/64x6
6X210	15/64x8
6X260	15/64x10
6X460	15/64x18
6,5X110	1/4x4
6,5X160	1/4x6
6,5X210	1/4x8
6,5X260	1/4x10
6,5X310	1/4x12
7X110	9/32x4
7X160	9/32x6
7X210	9/32x8
8X110	5/16x4
8X160	5/16x6
8X210	5/16x8
8X260	5/16x10
8X310	5/16x12
8X410	5/16x16
8X460	5/16x18
8X610	5/16x24
9X160	11/32x6
9X210	11/32x8
9,5X160	3/8x6
10X1000	3/8x40
10X110	3/8x4
10X160	3/8x6
10X210	3/8x8
10X260	3/8x10
10X310	3/8x12
10X360	3/8x14
10X460	3/8x18
10X610	3/8x24
11X160	7/16x6
11X210	7/16x8
11X260	7/16x10
11X310	7/16x12
12X1000	15/32x40
12X160	15/32x6
12X210	15/32x8
12X260	15/32x10
12X310	15/32x12

Dimensioni in mm <i>Dimensions (mm)</i>	Dimensioni in pollici <i>Dimensione (inches)</i>
12X360	15/32x14
12X460	15/32x18
12X610	15/32x24
13X160	1/2x6
13X210	1/2x8
13X260	1/2x10
13X310	1/2x12
13X460	1/2x18
14X1000	9/16x40
14X160	9/16x6
14X210	9/16x8
14X260	9/16x10
14X310	9/16x12
14X460	9/16x18
14X610	9/16x24
15X160	19/32x6
15X210	19/32x8
15X260	19/32x10
15X460	19/32x18
16X1000	5/8x40
16X160	5/8x6
16X210	5/8x8
16X260	5/8x10
16X310	5/8x12
16X460	5/8x18
16X610	5/8x24
16X800	5/8x32
17X210	11/16x8
18X1000	23/32x40
18X200	23/32x8
18X250	23/32x10
18X300	23/32x12
18X450	23/32x18
18X600	23/32x24
19X200	24/32x8
19X450	24/32x18
20X1000	25/32x40
20X200	25/32x8
20X300	25/32x12
20X450	25/32x18
20X600	25/32x24
22X1000	7/8x40
22X250	7/8x10
22X300	7/8x12
22X450	7/8x18
22X600	7/8x24
24X250	15/16x10
24X450	31/32x18
25X1000	1"x40
25X250	1"x10
25X300	1"x12
25X450	1"x18
26X250	1-1/32x10
26X450	1-1/32x18
28X450	1-1/8x18
30X450	1-3/16x18

**VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER ALESATORI
IN FUNZIONE DEL MATERIALE DA LAVORARE**
Cutting speed chart in m/min for reamers according to the work-piece material

38



Muro
Masonry

Diametro Punta Drill size	3	4	5	6	8	10	12	14	16
Velocità giri/min. Speed r.p.m.	2000	1800	1400	1200	900	700	600	500	400

**VELOCITÀ DI TAGLIO ESPRESSE IN GIRI AL MINUTO
NELL'IMPIEGO DELLE PUNTE UNIVERSALI "FORATUTTO"**
Cutting speed chart in RPM for drilling with universal drills

39



Foratutto
Multi-Purpose

Materiale da lavorare Work-piece material	Diametro punta / Drill size (mm)	
	3÷7	8÷12
Velocità di taglio / Cutting speed (r.p.m.)		
Acciaio duro Hard steel	1800÷800	800÷500
Muro, Marmo Masonry, Marble	2000÷800	800÷500
Vetro, Ceramica* Glass, Tiles	1000÷400	400÷300
Legno, Plastica Wood, Plastics	1200÷600	600÷300

*Consigli / Tips Velocità più bassa possibile. Lubrificare con trementina / Lowest speed possible. Use kerosene as lubricant

**VELOCITÀ DI TAGLIO PER FRESE A TAZZA
PER EDILIZIA A SOLA ROTAZIONE, IN FUNZIONE DEL MATERIALE DA LAVORARE**
Cutting speed chart in RPM for drilling into concrete and bricks on rotation only

40



Frese a tazza con denti in MD
Carbide tipped hole cutters

Materiale da lavorare Work-piece material	Diametro fresa / Core bit diameter (mm)			
	16÷35	38÷55	60÷85	100÷150
Velocità di taglio / Cutting speed (r.p.m.)				
Calcestruzzo, Muro Concrete, Masonry	2800÷1600	1500÷1000	950÷680	580÷380
Ceramica, Marmo Tiles, Marble	2500÷1100	1000÷700	650÷450	400÷250
Pietra Stone	1800÷800	750÷500	470÷340	300÷200

**VELOCITÀ DI TAGLIO PER FRESE A ROTOPERCUSSIONE
PER EDILIZIA IN FUNZIONE DEL MATERIALE DA LAVORARE**
Chart for percussion core bits selection and relative cutting speed in accordance with the materials to work

41



Rotopercussione
Rotary percussion

Materiale da lavorare Work-piece material	Diametro fresa / Core bit diameter (mm)			
	25÷40	45÷65	70÷100	110÷130
Velocità di taglio / Cutting speed (r.p.m.)				
Calcestruzzo, Muro Concrete, Masonry	2150÷1350	1200÷850	770÷550	500÷400
Cemento armato Armoured concrete	1600÷1000	900÷600	550÷400	360÷300
Pietre dure Hard stone	760÷470	420÷300	270÷200	170÷150

VELOCITÀ DI TAGLIO PER FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI

Chart for carbide grit hole saw selection and relative cutting speed

42



Frese a tazza con denti rivestiti in grani di carburo di tungsteno Carbide grit hole saws

Materiale da lavorare Work-piece material	Diametro fresa / Core bit diameter (mm)							
	16÷20	22÷29	32÷38	44÷51	54÷60	64÷76	83÷95	102÷114
	Velocità di taglio / Cutting speed (r.p.m.)							
Mattoni, Ceramica Brick, Ceramic	500	350	260	190	160	130	100	80
Ardesia Slate	1200	850	650	480	400	320	260	220
Plastica rinforzata Reinforced plastics	1700	1200	900	670	570	450	350	300
Fibre Fiber	710	510	390	290	250	190	160	125

*Consigli / Tips Assicurare una continua refrigerazione ad acqua
Keep a continuous water cooling

VELOCITÀ DI TAGLIO PER PUNTE E FRESE A TAZZA DIAMANTATE NELLA FORATURA DI PIASTRELLE IN GRES PORCELLANATO

Chart for carbide grit hole saw selection and relative cutting speed for sandware

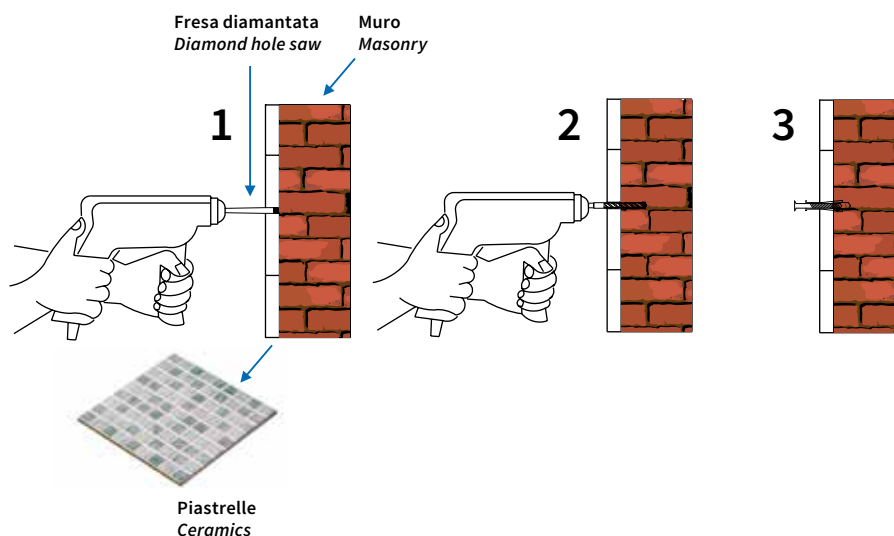
43



Frese a tazza diamantate Diamond core drills

Diametro fresa Core drill diameter	4÷6	8÷10	12÷16	18÷25	28÷35	40÷50	60÷80
Velocità giri/min. Speed r.p.m.	3000	2000	1500	1000	600	400	300

*Consigli / Tips Assicurare una continua refrigerazione ad acqua
Keep a continuous water cooling



VELOCITÀ DI TAGLIO PER PUNTE PER LEGNO NELLA FORATURA DI LEGNI DURI E TENERI

Chart for woodworking drills selection and relative cutting speed into soft and hard wood

44

TAGLIO LEGNO
WOOD WORKING TOOLS



Articolo Item	Materiale da lavorare Work-piece material	Velocità di taglio Cutting speed (r.p.m.)
Punta per legno con punta guida a centrare Wood working drills brad point Art. 05001, 05020, 05025, 05200, 05210, 05212	legno tenero / soft wood legno duro / tough wood	800÷1400 700÷1200
Punta elicoidale per legno per casseformi Wood working drills for plankings Art. 05030, 05033	legno tenero / soft wood legno duro / tough wood	700÷1200 600÷1000
Punta a spirale tipo Lewis Auger bits, Lewis type Art. 05035, 05036, 05037, 05038, 05040, 05042, 05044	legno tenero / soft wood legno duro / tough wood	400÷1200 300÷1000

Consigli / Tips Per articoli professionali, aumentare la velocità di +25%
For professional use, increase cutting speed +25%

VELOCITÀ DI TAGLIO PER UTENSILI PER LEGNO NELLA FORATURA DI LEGNI DURI E TENERI

Chart for woodworking drills selection and relative cutting speed into soft and hard wood

45



Articolo Item	Materiale da lavorare Work-piece material	Velocità di taglio Cutting speed (r.p.m.)
Mecchia piatta Wood spade bit Art. 05045, 05048	legno tenero / soft wood legno duro / tough wood	500-1500 400-1300
Mecchia regolabile Expansive wood bit Art. 050503	legno tenero / soft wood legno duro / tough wood	400-1300 300-1200
Frese Forstner in WS Wood center bits, forstner type (WS) Art. 05063, 05067	legno tenero / soft wood legno duro / tough wood	600-2000 500-1700
Frese Forstner in MD Wood center bits, forstner type (HM) Art. 05065	legno tenero / soft wood legno duro / tough wood	800-2200 700-2000

VELOCITÀ DI TAGLIO PER FRESE A TAZZA NELLA FORATURA DI LEGNI DURI E TENERI

Chart for hole saws selection and relative cutting speed into soft and hard wood

46



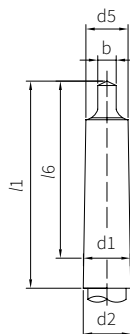
Articolo Item	Materiale da lavorare Work-piece material	Velocità di taglio Cutting speed (r.p.m.)
Frese a tazza Hole saws for wood Art. 05078	legno tenero / soft wood legno duro / tough wood	300-600 200-500

DIMENSIONI CARATTERISTICHE DEI CONI MORSE IN ACCORDO ALLA NORMA DIN 228

Chart for carbide grit hole saw selection and relative cutting speed

47

Coni morse
Morse taper



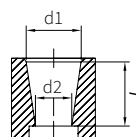
Cono Morse	l1 mm	l6 mm	d1 mm	d5 mm	b mm	d2 mm	Conicità %
0	59,5	56,5	9,045	6,1	3,9	9,2	5,205
1	65,5	62,0	12,065	9,0	5,2	12,2	4,988
2	80,0	75,0	17,780	14,0	6,3	18,0	4,995
3	99,0	94,0	23,825	19,1	7,9	24,1	5,020
4	124,0	117,5	31,267	25,2	11,9	31,6	5,194
5	156,0	149,5	44,339	36,5	15,9	44,7	5,263
6	218,0	210,0	63,348	52,4	19,0	63,8	5,214

DIMENSIONI CARATTERISTICHE DEI CONI DI ATTACCO DEI MANDRINI IN ACCORDO ALLE NORME DIN 238 E JACOBS®

Taper drill chucks dimensions in accordance with the DIN 238 standards and Jacobs®

48

Coni di attacco dei mandrini
Taper drill chuck shank

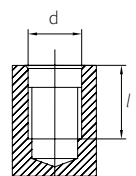


Tipo di norma	Cono del mandrino	d1 mm	d2 mm	l mm
DIN 238	B6	6,35	5,85	10,0
	B10	10,094	9,4	14,5
	B12	12,065	11,1	18,5
	B16	15,733	14,5	24,0
	B18	17,780	16,2	32,0
	B22	21,793	19,8	40,5
JACOBS	B24	23,825	21,3	50,5
	J0	6,350	5,803	11,11
	J1	9,754	8,468	16,67
	J2	14,2	12,39	22,23
	J2 corto	13,94	12,39	19,05
	J33	15,85	14,24	25,4
	J6	17,17	15,85	25,4
	J3	20,6	18,95	30,96
J4	28,55	26,35	42,07	

DIMENSIONI CARATTERISTICHE DEGLI ATTACCHI FILETTATI DEI MANDRINI Thread drill chucks dimensions

49

Attacchi filettati dei mandrini
Threaded drill chuck shank



Tipo	Classe	d mm	Passo mm	l mm
3/8" x 24 UNF	3B	9,525	1,058	14,5
1/2" x 20 UNF	3B	12,700	1,270	16,0
5/8" x 16 UNF	3B	15,875	1,588	19,0
3/4" x 16 UNF	3B	19,050	1,588	19,0
M14 x 2	MA	14,00	2,00	19,0
M18 x 2.5	MA	18,00	2,50	19,0

**VALORI DI TOLLERANZA ESPRESSI IN MM
IN FUNZIONE DEL DIAMETRO DELL'UTENSILE**
Tolerance values according to the tool diameter

50

Gradi di tolleranza Tolerance grade	Diametro dell'utensile (mm) / Tool diameter (mm)					
	0÷3	3÷6	6÷10	10÷18	18÷30	30÷50
h8 (toll. costruttiva delle punte per metallo in acciaio superrapido rettificate) <i>Production tolerance of hss ground twist drills</i>	0 -0,014	0 -0,018	0 -0,022	0 -0,027	0 -0,027	0 -0,039
H10 (toll. minima sul foro creato dalle punte per metallo rettificate) <i>Minimum tolerance of the hole made by ground twist drills</i>	+0,040 0	+0,048 0	+0,058 0	+0,070 0	+0,070 0	+0,100 0
H12 (toll. massima sul foro creato dalle punte per metallo rettificate) <i>Maximum tolerance of the hole made by ground twist drills</i>	+0,100 0	+0,120 0	+0,150 0	+0,180 0	+0,180 0	+0,250 0
h7 (toll. costruttiva delle punte in metallo duro) <i>Production tolerance of carbide twist drills</i>	0 -0,010	0 -0,012	0 -0,015	0 -0,018	0 -0,018	0 -0,025
h10 (toll. costruttiva di svasatori e frese frontali in metallo duro) <i>Production tolerance of carbide end mills and deburring tools</i>	0 -0,040	0 -0,048	0 -0,058	0 -0,070	0 -0,070	0 -0,100
G6 (toll. sul filetto creato dai maschi sovradimensionati in acciaio superrapido) <i>Production tolerance of the thread made by hss oversized taps</i>	+0,008 +0,002	+0,012 +0,004	+0,014 +0,005	+0,017 +0,006	+0,017 +0,006	+0,025 +0,009
G7 (toll. sul filetto creato dai maschi sovradimensionati in acciaio superrapido) <i>Production tolerance of the thread made by hss oversized taps</i>	+0,012 +0,002	+0,016 +0,004	+0,020 +0,005	+0,024 +0,006	+0,024 +0,006	+0,034 +0,009
H7 (toll. sul foro creato dagli alesatori) <i>Tolerance of the hole made by the reamers</i>	+0,010 0	+0,012 0	+0,015 0	+0,018 0	+0,018 0	+0,025 0
e8 (toll. costruttiva delle frese frontali in acciaio superrapido) <i>Production tolerance of hss end mills</i>	-0,014 -0,028	-0,020 -0,038	-0,025 -0,047	-0,032 -0,059	-0,032 -0,059	-0,050 -0,089
k10 (toll. costruttiva delle frese frontali in acciaio superrapido) <i>Production tolerance of hss end mills</i>	+0,040 0	+0,048 0	+0,058 0	+0,070 0	+0,070 0	+0,100 0
k12 (toll. costruttiva delle frese frontali in acciaio superrapido) <i>Production tolerance of hss end mills</i>	+0,100 0	+0,120 0	+0,150 0	+0,180 0	+0,180 0	+0,250 0

Nota: I gradi di tolleranza IT5÷IT13 sono idonei agli usuali accoppiamenti meccanici
Note: IT5÷IT13 tolerance range are suitable for the common mechanical coupling

TABELLA DI CONVERSIONE DELLE DUREZZE (ROCKWELL E VICKERS) E DI COMPARAZIONE CON I VALORI DI RESISTENZA A TRAZIONE

Hardness (Rockwell and Vickers) and traction resistance conversion chart

51

HV Vickers hardness	HRC Rockwell hardness	Carico di resistenza Tensile strength Carbon steel (N/mm ²)	Carico di resistenza Tensile strength Stainless steel (N/mm ²)
940	68		
920	67,5		
900	67	2521	2374
880	66,4		
864	66		
860	65,9		
840	65,3		
829	65	2413	2276
820	64,7		
800	64		
782	63,5		
780	63,3		
773	63	2305	2178
760	62,5		
745	62		
740	61,8		
737	61,7	2217	2089
720	61		
700	60,1		
698	60		
690	59,7	2119	2001
680	59,2		
675	59		
670	58,8		
667	58,7		
660	58,3		
655	58	2040	1923
650	57,8		
639	57		

HV Vickers hardness	HRC Rockwell hardness	Carico di resistenza Tensile strength Carbon steel (N/mm ²)	Carico di resistenza Tensile strength Stainless steel (N/mm ²)
630	56,8		
620	56,3		
615	56	1962	1854
610	55,7		
600	55,2		
596	55		
590	54,7	1883	1785
580	54,1		
570	53,6		
569	53,5		
560	53	1815	1707
550	52,3		
547	52,1		
544	52		
540	51,7		
530	51,1		
528	51	1746	1648
520	50,5		
510	49,8		
508	49,6		
500	49,1		
491	48,5	1628	1540
490	48,4		
480	47,7		
472	47,1	1560	1481
470	46,9		
460	46,1		
455	45,7	1511	1432
450	45,3		

Nota: la durezza è la misura della resistenza di un materiale alla deformazione plastica. Si misura valutando l'area dell'impronta che lascia un penetratore sottoposto a un carico specifico. Il penetratore è una piramide di diamante con angolo al vertice di 136° per la durezza Vickers, mentre è un cono di diamante con angolo al vertice di 120° per la durezza Rockwell.

Note: hardness is the measure of material strength to plastic deformation. Push the indenter against the material at a certain load and measure the impression area to find the hardness value. The indenter can be a diamond pyramid with 136° angle at the top for Vickers hardness test or it can be a diamond cone with 120° angle at the top for Rockwell hardness test.

SCALA MOHS DI DUREZZA Mohs hardness scale

49

Valore di durezza Mohs value	1	2	3	4	5	6	7	8	9	10
Materiali Materials	Talco Talc	Gesso Gypsum	Calcite Calcite	Fluorite Fluorite	Apatite Apatite	Ortoclasio Orthoclase	Quarzo Quartz	Topazio Topaz	Corindone Corundum	Diamante Diamond



GUIDA ALLA RISOLUZIONE DEI PROBLEMI

TROUBLESHOOTING GUIDE

GUIDA ALLA RISOLUZIONE DEI PROBLEMI DI LAVORAZIONE DEI METALLI

Metalworking troubleshooting guide

Immagine del difetto / Photo of the defect



Utensile a gradino
Step drill

Descrizione del difetto

Description of the defect

Incollaggio dei trucioli sui taglienti di un utensile a gradino.
Swarf sticks to the cutting edge of a graduated drill bit.

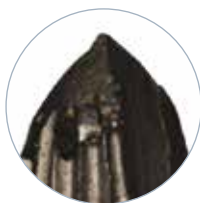
Possibili soluzioni del problema

Possible solutions to the problem

Verificare la correttezza dei parametri di taglio in funzione del diametro dell'utensile e del materiale in lavorazione.

Check the cutting parameters are set to the correct tool diameter for the material being worked.

Immagine del difetto / Photo of the defect



Utensile conico
Conical drill bit

Descrizione del difetto

Description of the defect

Incollaggio dei trucioli sui taglienti di un utensile conico.
Swarf sticks to the cutting edge of a conical drill bit.

Possibili soluzioni del problema

Possible solutions to the problem

Verificare la correttezza dei parametri di taglio in funzione del diametro dell'utensile e del materiale in lavorazione.

Check the cutting parameters are set to the correct tool diameter for the material being worked.

Immagine del difetto / Photo of the defect



Punta a centrare
Pilot drill

Descrizione del difetto

Description of the defect

Incollaggio dei trucioli sui taglienti di una punta a centrare per frese a tazza.
Swarf sticks to the cutting edge of the centring bit for a hole saw.

Check the cutting parameters are set to the correct tool diameter for the material being worked.

Possibili soluzioni del problema

Possible solutions to the problem

Verificare la correttezza dei parametri di taglio in funzione del diametro dell'utensile e del materiale in lavorazione.

Check the cutting parameters are set to the correct tool diameter for the material being worked.

Immagine del difetto / Photo of the defect



Sega bimetallica
Bimetal hole saw

Descrizione del difetto

Description of the defect

Striscio dell'albero all'interno dell'attacco filettato della sega bimetallica.
Slipping of the shaft inside the threaded connector of the bimetal saw.

Check the sharpness of the tools. In case they are worn and cut less efficiently, the tool can get stuck in the workpiece and the cutting tool may slip in the chuck. In this case do not proceed with cutting any further and sharpen the tool.

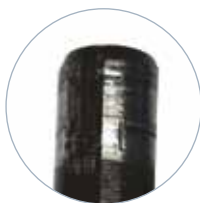
Possibili soluzioni del problema

Possible solutions to the problem

Assicurarsi del corretto inserimento dei perni di fissaggio dell'albero nelle sedi apposite sul fondo della tazza bimetallica.

Make sure the fastening pins of the shaft are inserted into the bottom of the bimetal cutting disc correctly.

Immagine del difetto / Photo of the defect



Albero
Arbor

Descrizione del difetto

Description of the defect

Striscio del codolo di un albero per frese nel mandrino.
Slipping of the shaft of the drill bit in the chuck.

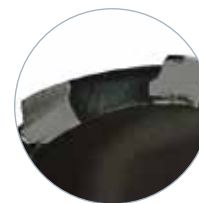
Possibili soluzioni del problema

Possible solutions to the problem

Possibile problema di serraggio delle griffe del mandrino. Verificare inoltre lo stato di affilatura dell'utensile: nel caso di usura e conseguente scarsa capacità tagliente, l'utensile tende a bloccarsi nel pezzo in lavorazione e il codolo tende a strisciare nel mandrino. In questo caso non insistere nel taglio ma passare alla riaffilatura dell'utensile.

The problem could be caused by clamping of the chuck jaws. Check the sharpness of the tools. In case they are worn and cut less efficiently, the tool can get stuck in the workpiece and the cutting tool may slip in the chuck. In this case do not proceed with cutting any further and sharpen the tool.

Immagine del difetto / Photo of the defect



Fresa a carotare
Core bit

Descrizione del difetto

Description of the defect

Usura / bruciatura della parte esterna del tagliente di una fresa a carotare.
Wearing / burning of the external part of the cutting edge of a hollow hole cutter.

Check the cutting parameters are set to the correct tool diameter for the material being worked. Bear in mind that the external part of the cutter wears out more quickly than the central part.

Possibili soluzioni del problema

Possible solutions to the problem

Verificare la correttezza dei parametri di taglio in funzione del diametro dell'utensile e del materiale in lavorazione. Si tenga conto che la parte esterna dei taglienti è soggetta a usura precoce rispetto alla parte centrale.

Check the cutting parameters are set to the correct tool diameter for the material being worked. Bear in mind that the external part of the cutter wears out more quickly than the central part.

Immagine del difetto / Photo of the defect



Sega bimetallica
Bimetal hole saw

Descrizione del difetto

Description of the defect

Arrotondamento dei denti della sega bimetallica.
Rounding of the teeth of a bimetal saw.

Possibili soluzioni del problema

Possible solutions to the problem

L'usura prematura delle creste dei denti è giustificata dall'utilizzo della sega bimetallica nella lavorazione di materiali abrasivi per cui non è idonea. Preferire altre tipologie di utensili più adatti all'applicazione specifica.

Premature wear and tear of the points of the teeth are due to the saw being used on inappropriate, abrasive materials. Use a more suitable tool for the job in question.

Immagine del difetto / Photo of the defect



Sega bimetallica
Bimetal hole saw

Descrizione del difetto

Description of the defect

Usura dei denti della sega bimetallica.
Wear-and-tear of the bimetal saw.

Possibili soluzioni del problema

Possible solutions to the problem

La velocità di rotazione del prodotto è eccessiva. Attenersi scrupolosamente alle indicazioni fornite dalle tabelle tecniche.

Decrease the threading and/or advancement speed. The rotation speed of the product is too fast. Always refer to the instructions provided in the technical tables.

Immagine del difetto / Photo of the defect



Tazza TCT
TCT hole saw

Descrizione del difetto

Description of the defect

Rottura di un dente in metallo duro saldatrasato al corpo dell'utensile.
Breakage of a hard metal tooth that has fused to the body of the tool.

Check the cutting parameters are set to the correct tool diameter for the material being worked.

Possibili soluzioni del problema

Possible solutions to the problem

Il dente in metallo duro è estremamente sensibile agli urti: evitare qualsiasi colpo accidentale durante la foratura ed evitare tagli discontinui. Eventualmente preferire altre tipologie di utensili con denti in acciaio superrapido.

The hard metal tooth is extremely sensitive to sudden shocks. Avoid accidental shocks during drilling and discontinuous cuts. If necessary, use another type of tool with super-rapid steel teeth.

GUIDA ALLA RISOLUZIONE DEI PROBLEMI DI FILETTATURA

Threading troubleshooting guide

Immagine del difetto / Photo of the defect



Maschio Tap

Descrizione del difetto

Description of the defect

Intasamento dei residui di lavorazione di maschiatura nelle scanalature.

Clogging of grooves with residues from the tapping process.

Possibili soluzioni del problema

Possible solutions to the problem

Utilizzare un lubrificante più fluido (meno viscoso) oppure aumentarne il flusso.

Use more fluid coolant (less viscous) or increase the flow.

Immagine del difetto / Photo of the defect



Maschio Tap

Descrizione del difetto

Description of the defect

Craterizzazione del maschio (distacco di una porzione di tagliente).

Pitting of the tap (detachment of a portion of the cutting edge).

Possibili soluzioni del problema

Possible solutions to the problem

Diminuire la velocità di maschiatura.

Reduce the tapping speed.

Immagine del difetto / Photo of the defect



Particolare filettato Threaded part

Descrizione del difetto

Description of the defect

Difficoltà di inserimento di coil o di vite nell'area filettata (filetto sovra o sotto dimensionato).

Difficulty in inserting coils or screws in the threaded area (thread too small or too big).

Possibili soluzioni del problema

Possible solutions to the problem

Sostituire il maschio usurato e/o controllare la dimensione effettiva del preforo.

Replace the worn tap and/or check the actual size of the pilot-hole.

Immagine del difetto / Photo of the defect



Maschio Tap

Descrizione del difetto

Description of the defect

Rottura del maschio in prossimità della punta.

Breaking of the tap near the tip.

Possibili soluzioni del problema

Possible solutions to the problem

Praticare un preforo di diametro idoneo o leggermente sovradimensionato nel caso di filettature di materiali con elevata componente elastica (es. inox).

Drill a pilot-hole with a suitable diameter or slightly larger if threading materials with high elastic component (e.g. stainless steel).

Immagine del difetto / Photo of the defect



Filiera Round die

Descrizione del difetto

Description of the defect

Craterizzazione della filiera (distacco di una porzione di tagliente).

Pitting of threading die (detachment of a portion of the cutting edge).

Possibili soluzioni del problema

Possible solutions to the problem

Controllare la dimensione nominale della barra in filettatura. Utilizzare un girafiliera manuale.

Check the nominal size of the thread in the bar. Use a manual die stock.

Immagine del difetto / Photo of the defect



Maschio a macchina Machine tap

Descrizione del difetto

Description of the defect

Imbocco del maschio scheggiato.

Entrance of the tap is chipped.

Possibili soluzioni del problema

Possible solutions to the problem

Controllare la dimensione del preforo e/o diminuire la velocità di filettatura e/o avanzamento.

Check the size of the pilot hole and/or decrease the threading and/or advancement speed.

Immagine del difetto / Photo of the defect



Maschio a macchina Machine tap

Descrizione del difetto

Description of the defect

Rottura multipla del maschio.

Multiple breaks in the tap.

Possibili soluzioni del problema

Possible solutions to the problem

Diminuire la velocità di filettatura e/o avanzamento. Filettare spessori non superiori a 1.5 volte il diametro nominale del maschio. Utilizzare teste a maschiare con frizione (specialmente nella maschiatura di fori ciechi). Mantenere pulito il fondo del foro cieco per evitare intasamento dei trucioli e conseguente danneggiamento del maschio. Verificare il corretto allineamento assiale maschio-preforo.

Decrease the threading and/or advancement speed. Thread thicknesses should not exceed 1.5 times the nominal diameter of the tap. Use tapping heads with friction (especially when tapping blind holes). Keep the bottom of the blind hole clean in order to prevent clogging with chips and consequent damage to the tap. Check the correct alignment of the tap-pilot hole axis.

Immagine del difetto / Photo of the defect



Maschio a macchina Machine tap

Descrizione del difetto

Description of the defect

Rottura del maschio in prossimità del termine dell'area filettata.

Breaking of the tap near the end of the threaded area.

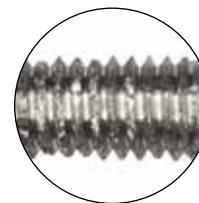
Possibili soluzioni del problema

Possible solutions to the problem

Filettare spessori non superiori a 1.5 volte il diametro nominale del maschio. Utilizzare teste a maschiare con frizione (specialmente nella maschiatura di fori ciechi). Mantenere pulito il fondo del foro cieco per evitare intasamento dei trucioli e conseguente danneggiamento del maschio.

Thread thicknesses should not exceed 1.5 times the nominal diameter of the tap. Use tapping heads with friction (especially when tapping blind holes). Keep the bottom of the blind hole clean in order to prevent clogging with chips and consequent damage to the tap.

Immagine del difetto / Photo of the defect



Particolare filettato Threaded part

Descrizione del difetto

Description of the defect

Filettatura realizzata con finitura scadente.

Threading made with poor finishing.

Possibili soluzioni del problema

Possible solutions to the problem

Sostituire la filiera con una non usurata. Verificare la corretta ortogonalità filiera-barra in filettatura. Effettuare mezzo giro in senso anti-orario ad ogni rotazione oraria della filiera, per rompere il truciolo prodotto.

Replace the threading die with a new one. Check the correct orthogonality of the threading die-bar. At every clockwise rotation of the die, make a half-turn in a counter-clockwise direction to break the chip produced.

GUIDA ALLA RISOLUZIONE DEI PROBLEMI DI FORATURA DEI MATERIALI EDILI

Troubleshooting guide for drilling of building materials

Immagine del difetto / Photo of the defect



Fresa a tazza
Hole saw

Descrizione del difetto

Description of the defect

Si rompe o si scheggia un dente in metallo duro a causa di urti (es. cadute accidentali, urto contro tondino del cemento armato o pezzi duri inglobati nel materiale in lavorazione).

A tooth in hard metal breaks or chips due to impacts (e.g. accidental falls, knock against reinforced cement or hard pieces incorporated into work materials).

Possibili soluzioni del problema

Possible solutions to the problem

Procedere con cautela durante la foratura, evitando il più possibile urti accidentali:

- quando si maneggia l'utensile,
- in fase di inizio foratura,
- durante la foratura, soprattutto nel caso di lavorazioni di materiali stratificati o compositi.

Proceed carefully during the drilling, and avoid accidental knocks as much as possible:

- when handling the tool,
- at the start of drilling
- during the drilling in particular of laminated or composite materials.

Immagine del difetto / Photo of the defect



**Denti con carburo
in grani**
Carbide gritted
teeth

Descrizione del difetto

Description of the defect

Si impasta il materiale in lavorazione sui grani di carburo di tungsteno. Il materiale lavorato è tenero e pastoso.

The material being drilled blends with the tungsten carbide grains. The material being drilled is soft and mushy.

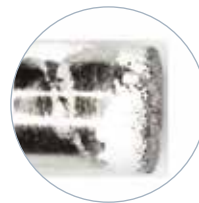
Possibili soluzioni del problema

Possible solutions to the problem

Scegliere un altro utensile maggiormente idoneo allo scopo. Aumentare la refrigerazione dell'area in lavorazione. Aumentare la velocità di foratura.

Choose another tool which is more suitable for the purpose. Increase the refrigeration of the area being drilled. Increase the drilling speed.

Immagine del difetto / Photo of the defect



Fresa diamantata
Diamond core bit

Descrizione del difetto

Description of the defect

Si impasta il materiale in lavorazione sui diamanti. Il materiale lavorato è tenero e pastoso.

The material being drilled blends with the diamonds. The material being drilled is soft and mushy.

Possibili soluzioni del problema

Possible solutions to the problem

Scegliere un altro utensile maggiormente idoneo allo scopo. Aumentare la refrigerazione dell'area in lavorazione. Aumentare la velocità di foratura.

Choose another tool which is more suitable for the purpose. Increase the refrigeration of the area being drilled. Increase the drilling speed.

Immagine del difetto / Photo of the defect



Fresa diamantata
Diamond core bit

Descrizione del difetto

Description of the defect

Si usura precocemente la corona diamantata a causa di un uso intensivo dell'utensile in assenza di una corretta refrigerazione.

The diamond crown wears prematurely due to intensive use of the tool without proper refrigeration.

Possibili soluzioni del problema

Possible solutions to the problem

Aumentare la refrigerazione della zona in lavorazione, per evitare il surriscaldamento della lega che trattiene i diamanti sul corpo dell'utensile.

Increase refrigeration in the drilling area to prevent overheating of the alloy that holds the diamonds on the body of the tool.

PUNTE PER LA FORATURA DI MATERIALI EDILI

Drill bits for drilling building materials

Immagine del difetto / Photo of the defect



Punta per muro
Masonry drill

Descrizione del difetto

Description of the defect

Si usura la testa dell'utensile.
The head of the tool wears away.

Possibili soluzioni del problema

Possible solutions to the problem

Evitare qualsiasi urto durante la foratura. Scegliere il martello con potenza idonea al tipo di punta che si utilizza (attacco SDS-PLUS, attacco SDS-MAX, codolo cilindrico).
Avoid any kind of impact during the drilling process. Choose a hammer strong enough for the type of bit used (SDS-PLUS connection, SDS-MAX connection, cylindrical shank).

Immagine del difetto / Photo of the defect



Punta per muro
Masonry drill

Descrizione del difetto

Description of the defect

Si rompe la punta all'inizio dell'elica, a causa dell'applicazione di un momento flettente eccessivo.
The tip at the start of the screw snaps due to excessive bending.

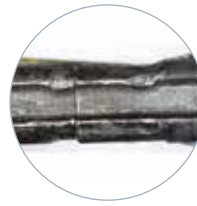
Possibili soluzioni del problema

Possible solutions to the problem

Evitare movimenti oscillatori al fine di allargare il diametro del foro che si sta realizzando. Non eccedere con la profondità del foro che si intende realizzare: utilizzare allo scopo un utensile con lunghezza totale più elevata.
Avoid swinging movements to widen the diameter of the hole that is being made.

Do not go beyond the depth of the hole that needs to be made: for this purpose, use a tool with a longer overall length.

Immagine del difetto / Photo of the defect



Attacco SDS-PLUS
SDS-PLUS shank

Descrizione del difetto

Description of the defect

Si rompe/deforma l'attacco dell'utensile.
The connection of the tool breaks/deforms.

Possibili soluzioni del problema

Possible solutions to the problem

Sostituire il mandrino usurato, che inevitabilmente danneggia l'attacco dell'utensile.
Replace the worn spindle, which inevitably damages the tool connection.

INDICE

INDEX

INDICE PER CODICE PROGRESSIVO

Progressive codes index

<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>
01001	110	01091	118	01157	55
01003	112	01092	119	01159	123
01004	113	01093	32	01160	62
01016	122 - 123 - 124 - 125 126 - 127 - 587	01094	77	01162	67
01018	114	01095	79	01163	64
01020	115	01096	80	01164	64
01022	98	01097	138	01166	65
01025	144	01098	81	01168	66
01028	140	01099	82	01169	234
01030	116	01100	82	01170	122 - 123 - 124 125 - 126 - 127
01034	117	01101	216	01171	234
01035	125	01102	216	01172	235
01040	122 - 123	01103	214	01173	235
01050	91	01104	214	01174	236
01051	52	01105	85	01175	236
01057	217	01110	218	01176	149
01058	216	01111	220	01179	235
01059	214	01112	219	01180	151
01060	72	01114	85	01182	148
01062	74	01115	95	01183	155
01063	75	01117	217	01185	227
01066	96	01118	123	01186	231
01067	78	01119	31	01187	232
01068	122 - 123 - 124 125 126 - 127 - 587	01120	34	01188	230
01069	141	01122	36	01190	232
01070	86	01123	36	01192	230
01072	88	01126	37	01193	229
01074	89	01128	37	01195	151 - 590 - 592 592 - 593
01075	122 - 123 - 124 - 125 126 - 127 - 587	01129	83	01196	229
01076	90	01135	122 - 123 - 124 126 - 127 - 587	01197	231
01077	92	01139	47	01200	150
01078	93	01140	42	01201	68
01079	94	01141	44	01203	70
01080	106	01142	123 - 125 - 126	01205	122 - 123 - 124 125 - 126 - 127
01082	108	01143	43	01206	150
01084	108	01145	48	01207	71
01085	122 - 123 - 124 125 - 126 - 127	01146	51	01208	71
01086	109	01147	50	01209	70
01087	109	01148	53	01213	134
01088	142	01149	52	01214	218
01089	30	01150	136	01215	151
01090	76	01152	54	01216	220
		01155	122 - 123 - 124 - 125 126 - 127 - 587	01217	219

INDICE PER CODICE PROGRESSIVO

Progressive codes index

<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>
01220	57	01368	130	03100	505
01229	122 - 123 - 124 - 125 126 - 127 - 587	01369	131	03105	505 - 588
01230	155	01370	83	03110	504
01236	154	01371	84	03112	504
01239	156	01372	84	03116	504 - 588
01240	153	01374	218	03117	544
01241	153	01375	219	03120	543 - 544 - 588
01244	152	01376	45	03121	547
01248	152	01377	45	03122	543
01254	157	01378	46	03125	546
01259	152 - 153 - 155 - 156	01401	59	03140	517
01260	226	01402	122 - 123 - 125 - 126	03142	237
01261	225	03001	512	03146	517 - 588
01262	225	03005	512	03152	525
01263	222	03009	512	03155	530
01264	222	03011	513	03156	526
01265	223	03015	513	03160	528
01266	224	03041	503	03163	529 - 588
01267	224	03042	503	03165	531 - 588
01270	223 - 224 - 225 - 226 - 227	03043	501	03166	527 - 588
01272	217	03044	501	03167	522
01273	215	03050	513 - 588	03168	523
01274	215	03051	510	03169	520
01275	215	03052	510	03170	533
01277	215	03053	510	03171	532
01300	38	03054	510	03172	534 - 535
01305	39	03057	509 - 511	03174	521 - 588
01306	41	03059	509	03176	588
01307	40	03060	508	03184	532 - 580
01310	123 - 125 - 126	03063	508	03210	552
01320	60	03065	508	03212	553
01350	100	03067	508	03220	550
01352	102	03068	507	03221	550
01354	103	03069	507	03222	551
01356	104	03070	509 - 588	03281	550 - 551 - 553 - 589
01358	105	03072	506	03400	548
01360	122 - 123 - 124 - 125 126 - 127 - 587	03073	506 - 588	03405	548
01361	221	03076	514	03410	548
01363	221	03077	515	03412	549
01364	221	03078	514 - 515 - 588	03515	549
01365	221	03080	516	05001	558
01366	132	03082	516	05009	559
01367	133	03085	516 - 517 - 588	05010	556 - 558 - 559 - 569 - 589
		03089	517	05020	559

INDICE PER CODICE PROGRESSIVO

Progressive codes index

<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>
05025	559	10001	322	10183	299
05030	562	10003	324	10198	302
05033	563	10010	327	10204	303
05035	560	10012	326	10210	302
05036	560	10015	326	10211	94
05037	561	10017	326	10212	301
05038	561	10020	328	10230	301
05040	560	10025	329	10240	296 - 298 - 299 - 300 - 587
05042	560	10030	323	10250	261
05044	560	10032	327	10251	262
05045	564	10065	371	10252	278
05046	564	10067	371	10253	261
05048	565	10097	377	10254	262
05050	565	10098	367	10255	264
05054	556	10100	310	10256	263
05055	556 - 564 - 589 - 589	10102	311	10257	264
05058	568	10105	312 - 314	10258	263
05060	568	10107	314	10259	277
05063	567	10110	317	10260	279
05065	566	10111	317	10261	267
05067	566	10112	316	10262	267
05070	569	10115	315	10263	269
05072	569	10117	315	10264	269
05076	569	10120	319	10265	285
05077	568	10122	319	10266	285
05078	187	10125	320	10267	283
05079	187 - 570 - 589	10127	320	10268	282
05080	570	10134	303 - 318	10269	291
05100	566 - 567 - 589	10136	321	10270	291
05200	556	10139	303 - 316	10271	292
05202	589	10144	308	10272	292
05210	557	10146	309	10273	276
05212	557	10147	308	10274	286
05240	561 - 589	10148	309	10275	286
05400	571	10155	311	10276	282
05430	571	10162	296	10277	268
05432	571	10165	296	10278	268
05440	569	10168	297	10279	270
05450	571	10171	297	10280	271
09001	123	10172	300	10281	272
09005	123	10173	300	10282	293
09010	122	10174	298	10283	293
09013	122	10177	298	10284	294
09030	383	10180	299	10285	294

INDICE PER CODICE PROGRESSIVO

Progressive codes index

<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>
10286	280	10502	254	12017	358
10287	281	10503	254	12020	360
10288	270	10504	251	12025	361
10289	283	10505	251	12032	360
10290	276	10506	252	12057	377
10291	265	10507	252	12060	337
10292	265	10508	257	12062	338
10293	287	10509	257	12065	342
10294	284	10510	255	12066	339 - 345
10297	259	10511	256	12067	339
10298	259	10512	256	12069	346
10299	260	10513	258	12070	351
10300	260	10514	258	12072	344
10301	290	10515	249	12075	348
10305	295	10516	250	12077	348
10306	289	10520	249 - 251 - 252 - 253 - 254 255 - 256 - 257 - 258	12079	354
10307	289	10600	395 - 399 - 400	12080	352
10308	288	10604	404	12082	353
10309	288	10605	396 - 399 - 400	12085	353
10310	273	10606	401	12086	354
10311	274	10607	403	12087	350
10312	275	10608	403	12088	351
10313	273	10609	403	12089	350
10314	274	10610	404	12091	352
10315	275	10611	407	12093	355
10330	266	10612	405	12094	340
10340	266	10613	406	12096	347
10345	259 - 260 - 261 - 263 - 264	10614	406	12098	349
10350	246	10615	406	12100	349 - 587
10351	246	10616	406	12144	334
10354	247	10617	406	12146	334
10355	247	10618	407	12148	335
10360	271	10620	405	12165	336 - 341
10361	272	10621	408	15001	364
10362	248	10622	407	15003	364
10363	248	10623	409	15005	366
10390	246 - 247 - 248	10625	402	15006	366
10400	244	10628	408	15010	365
10401	244	10631	397 - 398	15011	365
10404	245	12001	356	15013	367
10405	245	12005	357	15030	369
10450	244 - 245	12010	359	15032	368
10500	253	12012	359	15035	369
10501	253	12015	358	15037	368

INDICE PER CODICE PROGRESSIVO

Progressive codes index

<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>
17001	370	21111	538	23820	485
17005	383 - 587	21115	539	23825	589
17012	377 - 384 - 385 - 386 387 - 388 - 389 - 390 391 - 392 - 393	21116	537 - 539 - 589 - 591	24001	432
17020	373 - 374 - 375 - 376 380 - 381 - 587	21120	536	24002	432
17025	376 - 378 - 379 - 380	21122	537	24003	432
19001	228	21130	536 - 537	24004	432
19003	228	21200	176	24005	437
19020	228	21202	177	24006	437
21001	184	21206	174	24007	437
21005	181	21207	175	24008	437
21010	185 - 587	21210	170 - 171 - 173 - 174 175 - 176 - 177	24009	433
21011	181	21211	173	24010	433
21012	181	21212	171	24011	433
21013	192 - 193 - 587	21216	170	24012	433
21015	540	21218	172	24013	434
21020	188	21300	183	24014	434
21020	540 - 541 - 544	21320	183	24015	434
21030	540	21325	182	24016	434
21040	179	21335	182	24017	435
21042	178	23001	486	24018	435
21043	180	23005	487	24019	435
21045	179	23010	487	24020	435
21055	179	23012	487	24021	436
21058	195	23400	492	24022	436
21060	196	23405	489	24023	436
21061	200	23410	490	24024	436
21065	205	23415	491	24025	438
21067	201	23430	491 - 589	24026	438
21069	208	23500	495	24029	439
21070	188 - 191 - 195 - 197 200 - 202 - 204 - 206 186 - 187 - 541	23505	493	24030	439
21073	204	23510	494	24150	419
21080	198 - 199 - 203 - 207 - 587	23515	495	24151	419
21090	190	23529	492 - 495	24152	419
21100	186	23530	495	24153	419
21103	542 - 545 - 588	23600	476 - 477	24154	428
21104	545	23610	477	24155	428
21105	188 - 541	23620	475	24156	429
21106	542	23630	478	24157	430
21107	189 - 541	23700	480	24158	430
21108	189 - 541	23710	479	24159	430
21109	186	23720	479	24160	430
21110	538	23800	484	24161	420
		23810	482	24162	420
		23815	483	24163	420

INDICE PER CODICE PROGRESSIVO

Progressive codes index

<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>	<u>cod.</u>	<u>pag.</u>
24164	420	26085	210 - 211	28186	580
24165	422	26100	439	28200	440
24166	422	26125	468	28202	440
24167	422	26150	445	28204	441
24168	422	26152	445	28206	441
24169	424	26154	445	28208	442
24170	424	27001	464	28210	442
24171	424	27002	464	28212	443
24172	424	27003	464	28214	443
24174	425	27011	464	28216	443
24175	425	27012	464	28218	444
24176	427	27013	464	28220	444
24177	426	27050	465	28224	444
24178	426	27055	465	28226	444
24179	431	27060	466	29001	416
24180	429	27070	467	29005	417
24181	421	27072	467	29006	417
24182	423	28001	577	29010	418
24183	423	28002	577	29020	412
24184	421	28003	577	29021	413
24185	426	28004	576	29026	414
24186	427	28007	574 - 576	29039	414
25010	472 - 473	28009	574 - 576	29040	415
25011	470	28010	580	29041	415
25016	471	28011	160 - 162 - 163	41001	237
25018	469	28012	164	41003	371
26001	460	28013	164	41004	583
26003	460	28015	165		
26008	461 - 591	28020	473 - 583		
26015	450 - 451 - 452 - 453 - 454 455 - 456 - 457 - 458	28030	579		
26016	450 - 451 - 452 - 453 - 454 455 - 456 - 457 - 458	28031	574		
26020	450 - 451 - 452 - 453 - 454 455 - 456 - 457 - 458	28032	579		
26025	451 - 452 - 453 - 454 - 455	28034	578		
26026	451 - 452 - 453 - 454 - 455	28035	578		
26027	451 - 452 - 453 - 454 - 455	28051	574		
26028	451 - 452 - 453 - 454 - 455	28053	575		
26030	459 - 591	28054	575		
26033	450 - 451 - 452 - 453 - 454 455 - 456 - 457 - 458	28055	575		
26034	450 - 451 - 452 - 453 - 454 455 - 456 - 457 - 458	28058	575		
26070	209	28150	582		
26071	209	28154	582		
26084	209	28158	583		
		28160	581		
		28165	581		

CONDIZIONI GENERALI DI VENDITA

GENERAL SALES CONDITIONS

Le condizioni di seguito riportate si intendono accettate dal committente in fase di ordinazione.

1. ORDINI:

Con il conferimento dell'ordine si intendono approvate dal committente tutte le condizioni di vendita in vigore, salvo accordi particolari accettati dai contraenti. Tutti gli ordini sono irrevocabili da parte del committente ma potranno non essere da noi evasi a nostro insindacabile giudizio e senza obbligo di comunicazione o giustificazione. Nell'ordine è necessario specificare il codice dell'articolo.

2. PREZZI:

I prezzi si intendono per merce franco nostro magazzino (imballo, iva, trasporto esclusi) e non sono impegnativi. I prezzi che avranno valore saranno quelli in vigore al momento della spedizione.

3. IMBALLO:

Gratuito, salvo specifiche richieste del committente, che verranno fatturate al costo.

4. SPEDIZIONE:

Verrà effettuata come segue:

a) a mezzo nostro corriere di fiducia, in porto franco con addebito in fattura, in tal caso la merce sarà parzialmente assicurata** (vedere punto 10 dell'elenco);

b) a corriere di fiducia del committente: la resa sarà franco nostro stabilimento di Monticello e la merce viaggia a totale rischio e pericolo del committente. Pertanto in caso di ritardi, ammanchi, avaria, furti, etc. i reclami devono essere indirizzati al Vettore, solo ed unico responsabile.

5. CONSEGNE:

Il termine di consegna, qualora venisse indicato, è puramente indicativo e pertanto solleva la nostra società da ogni qualsivoglia rivalsa.

6. RECLAMI:

Debbono pervenire per iscritto entro 8 giorni dalla data di ricevimento merce. Trascorso tale termine, i reclami non verranno accettati. I reclami di qualsiasi natura non sospendono l'obbligo di effettuare i pagamenti nella forma convenuta. L'acquirente, nel caso che la merce sia da noi ritenuta non idonea, ha diritto esclusivamente alla sostituzione della stessa o all'accredito dell'importo. Ogni altro tipo di indennizzo si intende privo di valore. Per qualsiasi contestazione si elegge unico foro competente quello del Tribunale di Lecco.

7. RESI:

Ogni reso o sostituzione dovrà essere preventivamente autorizzato da KRINO SPA. La merce sarà accettata di ritorno, salvo verifica all'arrivo in magazzino. Questa dovrà essere inviata in porto franco e accompagnata dalla bolla di consegna con indicati gli estremi della fattura con la quale è stata precedentemente fornita.

8. PAGAMENTI:

Debbono essere effettuati esclusivamente alla nostra sede, secondo le forme concordate. Nel caso di ritardato pagamento, verranno addebitati gli interessi bancari dalla data di scadenza concordata sino all'avvenuto pagamento, maggiorati delle eventuali spese accessorie.

9. CARATTERISTICHE DEI PRODOTTI:

Le immagini contenute nel presente catalogo sono puramente indicative, pertanto la nostra azienda si riserva il diritto di apportare modifiche migliorative dei prodotti senza nessun obbligo di preavviso.

LA RIPRODUZIONE ANCHE PARZIALE DEL PRESENTE CATALOGO È VIETATA

10. VALORE DELL'ORDINE:

La spedizione verrà effettuata come segue:

- ordini singoli (non cumulabili) di importo superiore a Euro 600,00: spedizione in porto franco a mezzo nostro corriere di fiducia;
- ordini singoli (non cumulabili) di importo inferiore a Euro 600,00: spedizione in porto franco con addebito in fattura di Euro 10,00;
- ordini singoli (non cumulabili) di importo inferiore a Euro 100,00: spedizione in porto franco con addebito in fattura di Euro 10,00 + addebito di € 10 per oneri gestionali.

Riepilogando:

Valore ordine	Trasporto / Addebito	Oneri gestionali
Maggiore di Euro 600,00	Porto Franco	-
Minore di Euro 600,00	Euro 10,00	-
Minore di Euro 100,00	Euro 10,00	Euro 10,00

11. SERVIZIO RAPIDO:

- Per garantire il servizio, gli ordini devono essere inviati esclusivamente via email all'indirizzo: rapido@krino.it.
- Per ordini ricevuti entro le ore 10,00 viene garantita la spedizione il giorno lavorativo successivo, salvo indisponibilità del prodotto.
- Per ordini ricevuti dopo le ore 10,00 viene garantita la spedizione entro due giorni lavorativi, salvo indisponibilità del prodotto.
- Numero righe ordine non superiore a 10.
- Non è possibile effettuare aggiunte / modifiche all'ordine trasmesso.
- Possibilità di ritirare il materiale c/o la nostra sede, senza addebito.

1. ORDERS:

When an order is placed, all conditions are automatically accepted by the client. The order is irrevocable but we reserve the right to accept it. All orders should specify the items numbers.

2. PRICES:

All prices are ex works (packing, VAT and freight excluded).

3. PACKAGING:

Is free, a part of special requirements extra charged.

4. SHIPMENT:

It can be CIF with invoice charge, by parcel post or with a forwarding agent suggested by the customer.

5. DELIVERY TIME:

Is purely indicative.

6. CLAIMS:

They should be notified within 8 days from the date of goods receipt. We shall only arrange free replacement of the tools acknowledged as defective ones by us. In case of dispute, the Civil Court of LECCO will be competent.

7. GOODS RETURNED:

Any goods return should be authorized by us.

8. PAYMENTS:

to be made directly to our head office. In case of late payment, we charge the bank interest rate, including additional expenses.

9. PRODUCTS CHARACTERISTICS:

The images of this catalogue are purely indicatives, we reserve the right to make modifications without any notice.

THE REPRODUCTION OF THIS CATALOGUE IS PROHIBITED.

Any clause contained into your order sheets which is in contrast with the above mentioned conditions it is not valid.



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