

UTENSILI CONICI FRESE E SEGHE A TAZZA PER IL TAGLIO > DEI METALLI



Conical drill bits, hole cutters and hole saws
Forets coniques, fraises et scies trépan
Brocas conicas, fresas y coronas perforadoras
Blehschälbohrer und Lochsägen

La lavorazione della lamiera e di tutti i materiali in genere a spessore sottile, va assumendo sempre più importanza in tutte le attività professionali e nell'industria; l'acciaio inossidabile, inoltre, è oramai presente in gran parte delle costruzioni meccaniche. Pertanto, la gamma dei nostri utensili per il taglio della lamiera e di tutte le lavorazioni connesse è evoluta nelle nuove geometrie di taglio, nell'impiego di acciai superrapidi al cobalto e nei nuovi rivestimenti al nitruro di Titanio e al nitruro di Titanio-Alluminio, particolarmente adatti al taglio dei materiali molto duri, con ottimi rendimenti. Sono ora anche disponibili le famiglie complete delle punte-frese per rimuovere punti di saldatura, anche nelle esecuzioni con rivestimento al TiN. Si consiglia vivamente di seguire tutte le istruzioni indicate nel capitolo e nelle tabelle tecniche riportate in fondo al catalogo.

HSS

CUTTING TOOLS ENGINEERING

The processing of metal sheet and all thin materials is becoming increasingly important to industrial and professional users alike. Furthermore, stainless steel is now used for the vast majority of mechanical assemblies. As a result, Krino's range of tools for cutting sheet metal and all related processes has evolved in line with new cutting requirements, the use of high-speed cobalt steel and Titanium and Titanium-Aluminium new coatings suggested with high performances with very hard materials. Is now also available a new section of Spot drills with TiN coating too. We recommend to see the section technical Tables at the end of this catalogue.

Le travail de la tôle et de tous les matériaux de fin épaisseur en général prend de plus en plus d'importance dans toutes les activités professionnelles et dans l'industrie, l'acier inoxydable est désormais présent dans la plupart des constructions mécaniques. Par conséquent, la gamme de nos outils de coupe de la tôle et de tous les Travaux connexes a évolué au niveau de la géométrie de la coupe, de l'utilisation d'aciers super rapides au cobalt et des nouveaux revêtements au nitrure de Titane et au nitrure de Titane – Aluminium, indiqués pour le perçage des matériaux très durs avec des performances optimales. Une famille complète de fraises pour points de soudure est maintenant disponibles en version revêtue au Titan. Nous recommandons de consulter les tableaux techniques au fond de ce catalogue.

La elaboración de la chapa y en general de todos los materiales de espesor sutil va adquiriendo siempre más importancia en todas las actividades profesionales y en la industria; el acero inoxidable, además, ya está presente en gran parte de la construcciones mecánicas. Por lo tanto, la gama de nuestras herramientas de corte de la chapa y de todas las elaboraciones conectadas se ha desarrollada en las nuevas geometrías de corte, en el uso de aceros superrápidos al cobalto y en los nuevos revestimientos al Titanio y al Titanio –Aluminio para el corte de materiales muy duros con optimo rendimiento. Ahora una familia completa de fresas para puntos de solduras es disponibles con recubrimiento de Titanio también. Recomendamos la consultación de los prospectos tecnico al fondo de este catálogo.

industrial



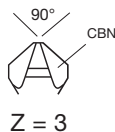
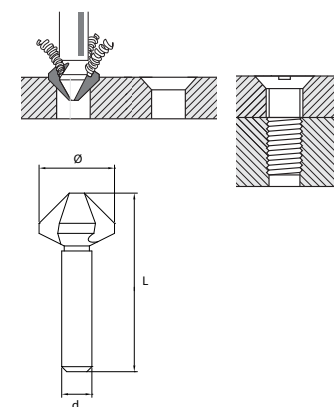
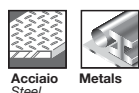
Frese ad incassare e svasare a 3 tagli

Deburring tools with 3 flutes / Fraise conique à ébavurer avec 3 coupes / Fresas de avellanar con 3 cortes / Kegelsenker mit 3 Schneiden

01185 01260



HSS HSS+TiN



DIN 335/C-90°

Ø (mm)	d	L	Per VITI / For screws	
			DIN 74 AF	DIN 74 BF
4,3	4	40		
5	4	40	M 2,5	
5,3	4	40		
5,8	5	45		
6	5	45	M 3	
6,3	5	45		M 3
7	6	50	M 3,5	
7,3	6	50		
8	6	50	M 4	
8,3	6	50		M 4
9,4	6	50		
10	6	50	M 5	
10,4	6	50		M 5
11,5	8	56	M 6	
12,4	8	56		M 6
13,4	8	56		
15	10	60	M 8	
16,5	10	60		M 8
19	10	63	M 10	
20,5	10	63		M 10
23	10	67	M 12	
25	10	67		M 12
26	12	67	M 14	
28	12	71		M 14
30	12	71	M 16	
31	12	71		M 16
40	13	80		

**01185
HSS**

cod.

€
cad/each

**01260
HSS+TiN**

cod.

€
cad/each

011850430	012600430
011850500	012600500
011850530	012600530
011850580	012600580
011850600	012600600
011850630	012600630
011850700	012600700
011850730	012600730
011850800	012600800
011850830	012600830
011850940	012600940
011851000	012601000
011851040	012601040
011851150	012601150
011851240	012601240
011851340	012601340
011851500	012601500
011851650	012601650
011851900	012601900
011852050	012602050
011852300	012602300
011852500	012602500
011852600	012602600
011852800	012602800
011853000	012603000
011853100	012603100
011854000	012604000

Confezione / Packaging



Ø 6,3-8,3-10,4-12,4-16,5-20,5 6pcs
01270107 - HSS €



Ø 6,3-8,3-10,4-12,4-16,5-20,5 6pcs
01270109 - HSS+TiN €

Cod.

**01270400
HSS
€**



Composizione
Description

17 pcs
Ø 4,3 - 5 - 6 - 6,3 - 7 - 8 - 8,3
10 - 10,4 - 11,5 - 12,4 - 15 - 16,5
19 - 20,5 - 23 - 25 mm

DIN 335/C-90°

Ø (mm)	d	L	Per VITI For screws	
			DIN 74 AF	DIN 74 BF
6,3	5	45		M 3
8,3	6	50		M 4
10,4	6	50		M 5
12,4	8	56		M 6
15	10	60	M 8	
16,5	10	60		M 8
20,5	10	63		M 10
25	10	67		M 12
31	12	71		M 16

**Art. 01261
HSS-CO**

cod.

€
cad/each

**Art. 01262
HSS-CO+TiAIN**

cod.

€
cad/each

012610630	012620630
012610830	012620830
012611040	012621040
012611240	012621240
012611500	012621500
012611650	012621650
012612050	012622050
012612500	012622500
012613100	012623100

01261 01262



HSS-CO HSS-CO+TiAIN



Ø 6,3-8,3-10,4-12,4-16,5-20,5 6pcs
**01270110 - HSS-CO
€**



Ø 6,3-8,3-10,4-12,4-16,5-20,5 6pcs
**01270111 - HSS-CO+TiAIN
€**

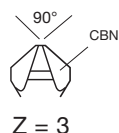
Frese ad incassare e svasare a 3 tagli in Metallo Duro

Carbide deburring tools with 3 flutes / Fraise conique à ébavurer carbure avec 3 coupes
Fresas de avellanar metal duro con 3 cortes / Kegelsenker VHM mit 3 Schneiden

KRINO®

NEW

01263 01264



Metallo Duro / Carbide DIN 335/C-90°

Art. 01263 MD

Art. 01264 MD+TiAlN

Ø h10	d h7	L	Per VITI For screws DIN 74 BF	cod.	€ cad/each	cod.	€ cad/each
6,3	6	50	M 3	012630630		012640630	
8,3	6	50	M 4	012630830		012640830	
10,4	6	50	M 5	012631040		012641040	
12,4	8	50	M 6	012631240		012641240	
16,5	10	60	M 8	012631650		012641650	
20,5	10	63	M 10	012632050		012642050	
25	10	67	M 12	012632500		012642500	

Metallo Duro / Carbide



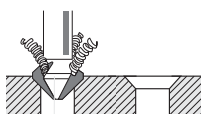
Inox



Acciaio
Steel



Metals

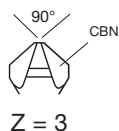


Svasatori a 90° con attacco esagonale 1/4"

90° countersink with 1/4" hexagon shank / Fraise conique a 90° avec 6 pans de 1/4"

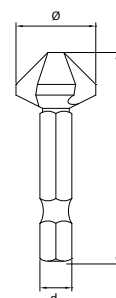
Avellanador a 90° con mango esagonal 1/4" / Kagelsenker-bits 90°, mit 1/4" sechskant-Aufnahme

19003



HSS DIN 335/C-90°

Ø	L	d	Per VITI For screws DIN 74 BF	cod.	€ cad/each
6,3	40	1/4	M 3	190030630	
8,3	45	1/4	M 4	190030830	
10,4	47	1/4	M 5	190031040	
12,4	49	1/4	M 6	190031240	
16,5	52	1/4	M 8	190031650	
20,5	55	1/4	M 10	190032050	



Acciaio
Steel



Metals

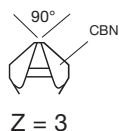


Plastics



HSS DIN 335/C-90°

19001



HSS

Ø	L	d	Per VITI For screws DIN 74 BF	cod.	€ cad/each
6,3	31	1/4	M 3	19001063	
8,3	31	1/4	M 4	19001083	
10,4	34	1/4	M 5	19001104	
12,4	35	1/4	M 6	19001124	
16,5	40	1/4	M 8	19001165	
20,5	41	1/4	M 10	19001205	



6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5
19020214 - HSS-G
€

ØxL cod. €
cad/each



**Magnetico
Magnetic**

33x120 19001000



Acciaio
Steel



Metals



Plastics



DIN 8376 DIN 8377 DIN 8374 DIN 8375



56

Frese ad incassare e svasare in HSS

HSS deburring tools / Fraise conique à ébavurer en HSS

Fresas de avellanar HSS / Kegelsenker HSS

HSS DIN 335/C-90°

Serie lunga - Long serie

01193



HSS



Z = 3

Applicazioni / Applications



Ø (mm)	d	L	cod.	€ cad/each
6,3	5	104	011930630	
8,3	6	105	011930830	
10,4	6	107	011931040	
12,4	8	108	011931240	
15	10	109	011931500	
16,5	10	111	011931650	
20,5	10	114	011932050	
25	10	118	011932500	



6 pcs

Ø 6,3 - 8,3 - 10,4

12,4 - 16,5 - 20,5

01270207 - HSS

€

HSS DIN 335/D 90°

01196



HSS



Z = 3

Applicazioni / Applications



Ø (mm)	MK	L	Per VITI For screws		cod.	€ cad/each
			DIN 74 AF M 8	DIN 74 BF		
15	1	85			011961500	
16,5	1	85		M 8	011961650	
19	2	100	M 10		011961900	
20,5	2	100		M 10	011962050	
23	2	106	M 12		011962300	
25	2	106		M 12	011962500	
26	2	106	M 14		011962600	
28	2	112		M 14	011962800	
30	2	112	M 16		011963000	
31	2	112		M 16	011963100	
34	2	118	M 18	M 18	011963400	
37	2	118	M 20	M 20	011963700	
40	3	140			011964000	
50	3	150			011965000	

HSS DIN 335/C 90°

01192



HSS



Z = 1

Applicazioni / Applications



Ø (mm)	d	L	cod.	€ cad/each
6	5	45	011920600	
8	6	50	011920800	
10	6	50	011921000	
12	8	56	011921200	
16	10	60	011921600	
20	10	63	011922000	
25	10	67	011922500	
30	12	71	011923000	

HSS DIN 334/C 60°

01186



HSS



Applicazioni / Applications



Ø (mm)	d	L	cod.	€ cad/each
6,3	5	45	011860630	
8	6	50	011860800	
10	6	53	011861000	
12,5	8	56	011861250	
16	10	63	011861600	
20	10	67	011862000	
25	10	71	011862500	
31,5	12	76	011863150	

Frese a svasare e sbavare con foro 90° in HSS

HSS 90° countersinks / Fraise conique à ébavurer avec trous, 90° angle

Fresas de avellanar con orificio trasversal, angulo 90° / Kegelsenker 90° mit querloch



HSS-90°							
Gr.	Ø min.-max	d	L	cod.	€ cad/each		
1	2 ÷ 5	6	45	0118801			
2	5 ÷ 10	8	48	0118802			
3	10 ÷ 15	10	65	0118803			
4	15 ÷ 20	12	85	0118804			
5	20 ÷ 25	15	102	0118805			
6	25 ÷ 30	15	115	0118806			
7	30 ÷ 35	15	127	0118807			
8	35 ÷ 40	15	136	0118808			
9	40 ÷ 50	20	166	0118809			

HSS
Applicazioni / Applications

Alu Metals Plastics

01188

2-5 5-10 10-15 15-20 4 pcs
01270108 HSS
€

Speciale per alluminio, metalli leggeri e plastica. Lavora senza vibrazioni, ottima finitura
Pour aluminium, métaux légers et plastiques. Pour ébavurage et petits chanfreins. Meilleur état de surface. Travaille sans vibrations.
For aluminium, metals and plastics. For deburring and small chamfers. Best surface finish. Works without vibrations.

Sbavatori a mano a 90°

Hand deburres 90° / Fraises à ébavurer 90° / Fresas de avellanar 90° / Handentgrater 90°

HSS DIN 335/C-90°					01187
Ø	L	cod.	€ cad/each		
6,3	125	011870630			
8,3	125	011870830			
10,4	130	011871040			
12,4	130	011871240			
16,5	135	011871650			
20,5	140	011872050			
 HSS  Magnetico Magnetic  90° Z = 3 Doppia possibilità di impugnatura. Double handing.					

Sbavatori a mano a 40°

Hand deburres 40° / Fraises à ébavurer 40° / Fresas de avellanar 40° / Handentgrater 40°

  Z = 6	HSS					01190
	Gr.	Ø min.-max	L	cod.	€ cad/each	
	1	10 ÷ 34	155	0119001		
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.						

Svasatori con perno guida per sede viti a testa cilindrica

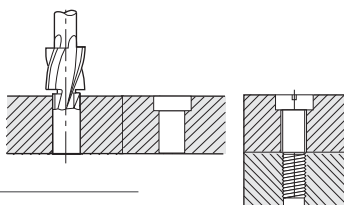
Flat countersinks with guide for through holes / Fraise à lamer pour têtes de vis
Avellanadores para asiento de tornillos / Flacksenker für Durchgangslöcher

Per fori passanti - For through holes - Pour trous débouchants - Para orificios pasantes - Für Durchgangslöcher

01273
01274



HSS DIN 373



Confezione / Packaging



Art. 01273 Grado fine - Fine grade - Degré fin - Grado fino - Fein Grad

VITE thread	Ø	d ₁	L	d	cod.	€ cad/each
M 3	6	3,2	71	5	0127303	
4	8	4,3	71	5	0127304	
5	10	5,3	80	8	0127305	
6	11	6,4	80	8	0127306	
8	15	8,4	100	12,5	0127308	
10	18	10,5	100	12,5	0127310	
12	20	13,0	100	12,5	0127312	



M 3÷10 6 pcs
01275100
€

Art. 01274 Grado medio - Medium grade - Degré Moyen - Grado Medio - Mittelgrad

VITE thread	Ø	d ₁	L	d	cod.	€ cad/each
M 3	6	3,4	71	5	0127403	
4	8	4,5	71	5	0127404	
5	10	5,5	80	8	0127405	
6	11	6,6	80	8	0127406	
8	15	9,0	100	12,5	0127408	
10	18	11,0	100	12,5	0127410	
12	20	14,0	100	12,5	0127412	



M 3÷10 6 pcs
01275101
€

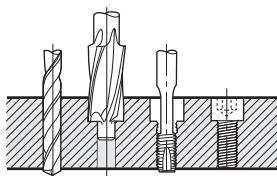
Per prefiori di filettature - For thread core holes - Pour trous de taraudage - Para orificios de roscado - Für Gewindelöcher

Art. 01272

01272



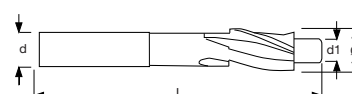
HSS DIN 373



VITE thread	Ø	d ₁	L	d	cod.	€ cad/each
M 3	6	2,5	71	5	0127203	
4	8	3,3	71	5	0127204	
5	10	4,2	80	8	0127205	
6	11	5,0	80	8	0127206	
8	15	6,8	100	12,5	0127208	
10	18	8,5	100	12,5	0127210	
12	20	10,2	100	12,5	0127212	



M 3÷10 6 pcs
01275105
€



Applicazioni / Applications



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 / Forets coniques et étages avec affutage à multiples facettes pour travailler la tôle et les tubes / Brocas conicos y escalonados con afilatura multipla para trabajar las planchas de metal y los tubos / Blechschalbohrer mit Spiralnute und Vielfaches Hinterarbeitung.

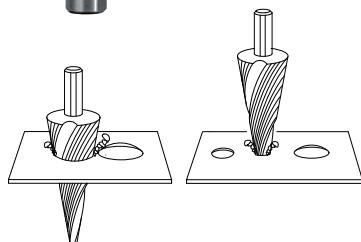
NEW

HSS-G Interamente rettificata / Fully ground



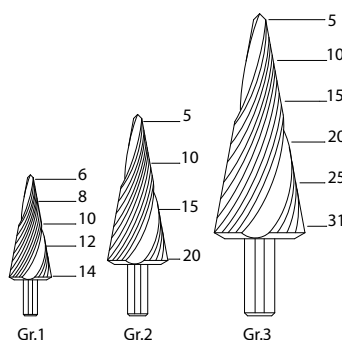
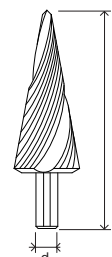
AISI M2
HV:820

Gambo antidrucciolo
Spoglia multipla
High grip shank
Multiple clearance



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

01182



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**.



Cod.	Composizione Description
01182100	Gr.1 3÷14 mm
HSS-G	Gr.2 6÷20 mm
€	Gr.3 5÷31 mm

Confezione / Packaging



R ≤ 800 N/mm²

Applicazioni
Applications



- 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
- Pour le perçage des trous dans tous matériaux de faible épaisseur (épaisseur max. 5 mm).
- Broca-avellanador para cortar tubo y chapa de hierro y acero, aleaciones ligeras, plexiglass (5 mm de profundidad).
- Zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher.



Pasta lubrificante per il taglio

Cutting paste - Lubrifiant de coupe - Pasta de corte - Bohrpaste



Cod.
4100401
€

Utensili conici integrali in HSS-G per forare ed allargare lamiere e tubi

Conical drill bits for metal sheets and tubes / Forets coniques et étages pour la tôle

Brocas conicas para planchas / Blechschälbohrer

HSS-G

01180



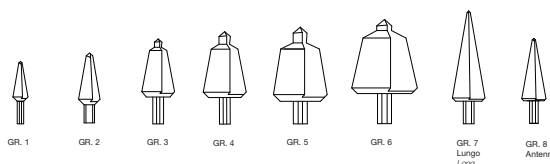
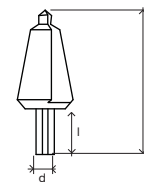
AISI M2
HV:820

Gambo antisdrucchiolo
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	
2	6 ÷ 20	8	21	70	0118002	
3	16 ÷ 30,5	10	25	79	0118003	
4	26 ÷ 40	10	25	86	0118004	
5	36 ÷ 50	13	25	90	0118005	
6	40 ÷ 61	13	25	97	0118006	
7	3 ÷ 31	10	21	109	0118007	
8	3 ÷ 22,5	8	21	85	0118008	



01195101
HSS-G

€

Composizione
Description

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

01215

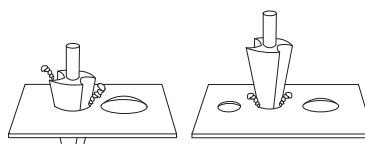


AISI M2
HV:820

1/4 Q.C.



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



Fresa conica allargafori per lamiere, speciale per meccanici, elettrauto, carrozzieri

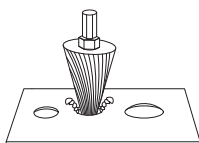
Conical drill bits for metal sheets / Forets coniques pour la tôle

Brocas conicas para planchas / Blechschälbohrer

HSS

CV

01176



Ø x l	d	cod.	€ cad/each
25 x 40	8	0117601	
32 x 50	10	0117603	
45 x 60	10	0117604	

Ø x l	d	cod.	€ cad/each
25 x 40	8	0117602	

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.

R ≤ 800 N/mm²

Applicazioni
Applications



- 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
- Pour le perçage des trous dans tous matériaux de faible épaisseur (épaisseur max. 5 mm).
- Broca-avellanador para cortar tubo y chapa de hierro y acero, aleaciones ligeras, plexiglass (5 mm de profundidad).
- Zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher.



Utensili conici rivestiti al TiN e al TiAlN per forare ed allargare lamiere e tubi



TiN and TiAlN coated conical drill bits / Forets coniques et étages revêtus au TiN et TiAlN

Brocas conicas con recubrimiento de TiN y TiAlN para planchas / Blechsälbohrer TiN und TiAlN beschichtet

HSS-G + TiN

01200



HSS-G+TiN
HV 0,05 = 2300

Gambo antisdrucciolo
High grip shank

Gr.	Ø min.-max	d (mm)	l (mm)	L (mm)	cod.	€ cad/each
1	3 ÷ 14	6	21	58	0120001	
2	6 ÷ 20	8	21	70	0120002	
3	16 ÷ 30,5	10	25	79	0120003	
4	26 ÷ 40	10	25	86	0120004	
5	36 ÷ 50	13	25	90	0120005	
6	40 ÷ 61	13	25	97	0120006	
7	3 ÷ 31	10	21	109	0120007	
8	3 ÷ 22,5	8	21	85	0120008	



Cod.

01195110
HSS-G + TiN
€

Composizione
Description

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

USO INTENSIVO
INTENSIVE USE
R≤1000 N/mm²



ACCIAIO LEGATO
ALLOY STEEL



Confezione / Packaging



HSS-G + TiAlN

01206



HSS-G+TiAlN
HV 0,05 = 3300

Gambo antisdrucciolo
High grip shank

Gr.	Ø min.-max	d (mm)	l (mm)	L (mm)	cod.	€ cad/each
1	3 ÷ 14	6	21	58	0120601	
2	6 ÷ 20	8	21	70	0120602	
3	16 ÷ 30,5	10	25	79	0120603	
4	26 ÷ 40	10	25	86	0120604	
5	36 ÷ 50	13	25	90	0120605	
6	40 ÷ 61	13	25	97	0120606	
7	3 ÷ 31	10	21	109	0120607	
8	3 ÷ 22,5	8	21	85	0120608	



Cod.

01195111
HSS-G + TiAlN
€

Composizione
Description

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

USO INTENSIVO
INTENSIVE USE
R≤1200 N/mm²



ACCIAIO INOX - ACCIAIO ALTO LEGATO
STAINLESS STEEL - HIGH ALLOY STEEL



Confezione / Packaging



Applicazioni
Applications



- 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
- Pour le perçage des trous dans tous matériaux de faible épaisseur (épaisseur max. 5 mm).
- Broca-avellanador para cortar tubo y chapa de hierro y acero, aleaciones ligeras, plexiglass (5 mm de profundidad).
- Zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher.

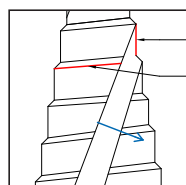
Utensili conici a gradino con taglienti elicoidali ad altissimo rendimento

Spiral step drill bits / Forets étages hélicoïdaux

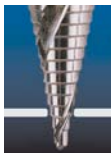
Brocas escalonadas helicoidale / Stufenbohrer mit Spiralnute

NEW

01240

HSS-G
HV 820Gambo antisdrucciolo
High grip shankSpoglia assiale
Axial reliefSpoglia radiale
Radial reliefComponente di taglio
Cutting strength

Forza applicata / Strength

Componente
estrazione truciolo
Chip removal
strength $R \leq 800 \text{ N/mm}^2$ Acciaio
Steel

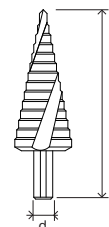
Metals



Plastics

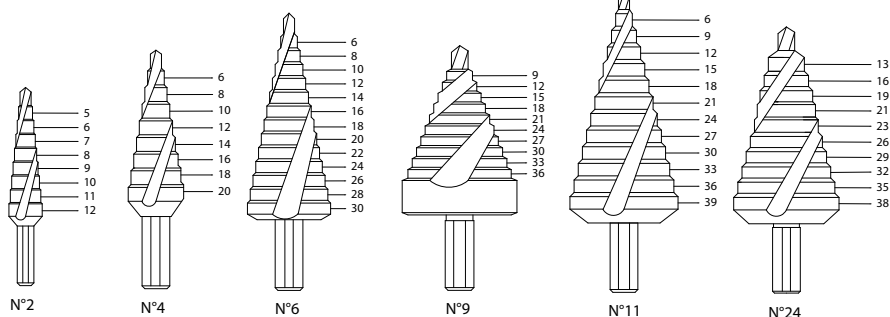
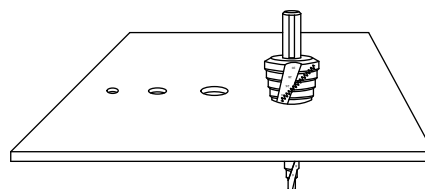
HSS-G

Gr.	Ø min.-max	Progressione Step (mm)	N° Gradini N° Steps	d (mm)	L (mm)	cod.	€ cad/each
2	4 ÷ 12	1	9	6	70	0124002	
4	4 ÷ 20	2	9	10	85	0124004	
6	4 ÷ 30	2	13	10	100	0124006	
9	6 ÷ 36	3	10	10	80	0124009	
11	4 ÷ 39	3	13	10	107	0124011	
24	6 ÷ 38	-	11	10	96	0124024	



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 strenght.



01259107

Cod.

Composizione
Description

01259107

HSS-G

€

Gr.2 4÷12 mm

Gr.4 4÷20 mm

Gr.6 4÷30 mm



HSS-G

Utensili conici a gradino rivestiti al TiN e al TiAlN con taglienti elicoidali
ad altissimo rendimento TiN and TiAlN spiral step drill bits / Forets étages hélicoïdaux au TiN et TiAlN
Brocas escalonadas helicoidales con recubrimiento de TiN y TiAlN / Stufenbohrer mit Spiralnute TiN und TiAlN

KRINO®

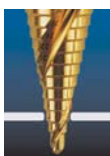
NEW

01244



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

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



Inox



Acciaio
Steel



Metals



HSS-G + TiN

Gr.	Ø min.-max	Progressione Step (mm)	N° Gradini N° Steps	d (mm)	L (mm)	cod.	€ cad/each
2	4 ÷ 12	1	9	6	70	0124402	
4	4 ÷ 20	2	9	10	85	0124404	
6	4 ÷ 30	2	13	10	100	0124406	
9	6 ÷ 36	3	10	10	80	0124409	
11	4 ÷ 39	3	13	10	107	0124411	
24	6 ÷ 38	-	11	10	96	0124424	

01259108

Cod.

Composizione
Description

01259108
HSS-G + TiN
€

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



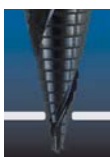
HSS-G + TiN

01248



CBN
HSS-G+TiAlN
HV 0,05=3300
Gambo antisdrucciolo
High grip shank

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



Inox



Acciaio
Steel



Metals

HSS-G + TiAlN

Gr.	Ø min.-max	Progressione Step (mm)	N° Gradini N° Steps	d (mm)	L (mm)	cod.	€ cad/each
2	4 ÷ 12	1	9	6	70	0124802	
4	4 ÷ 20	2	9	10	85	0124804	
6	4 ÷ 30	2	13	10	100	0124806	
9	6 ÷ 36	3	10	10	80	0124809	
11	4 ÷ 39	3	13	10	107	0124811	
24	6 ÷ 38	-	11	10	96	0124824	

01259109

Cod.

Composizione
Description

01259109
HSS-G + TiAlN
€

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



HSS-G + TiAlN

Utensili conici integrali a gradino in HSS-G per la foratura ed allargatura della lamiera

HSS step drill bits / Forets étages HSS-G

Brocas escalonadas HSS-G / HSS-G Stufenbohrer

01183



CBN
AISI M2
HV:820

Gambo
antisdrucciolo
High grip
shank

HSS-G

Metric - per costruzione - for construction

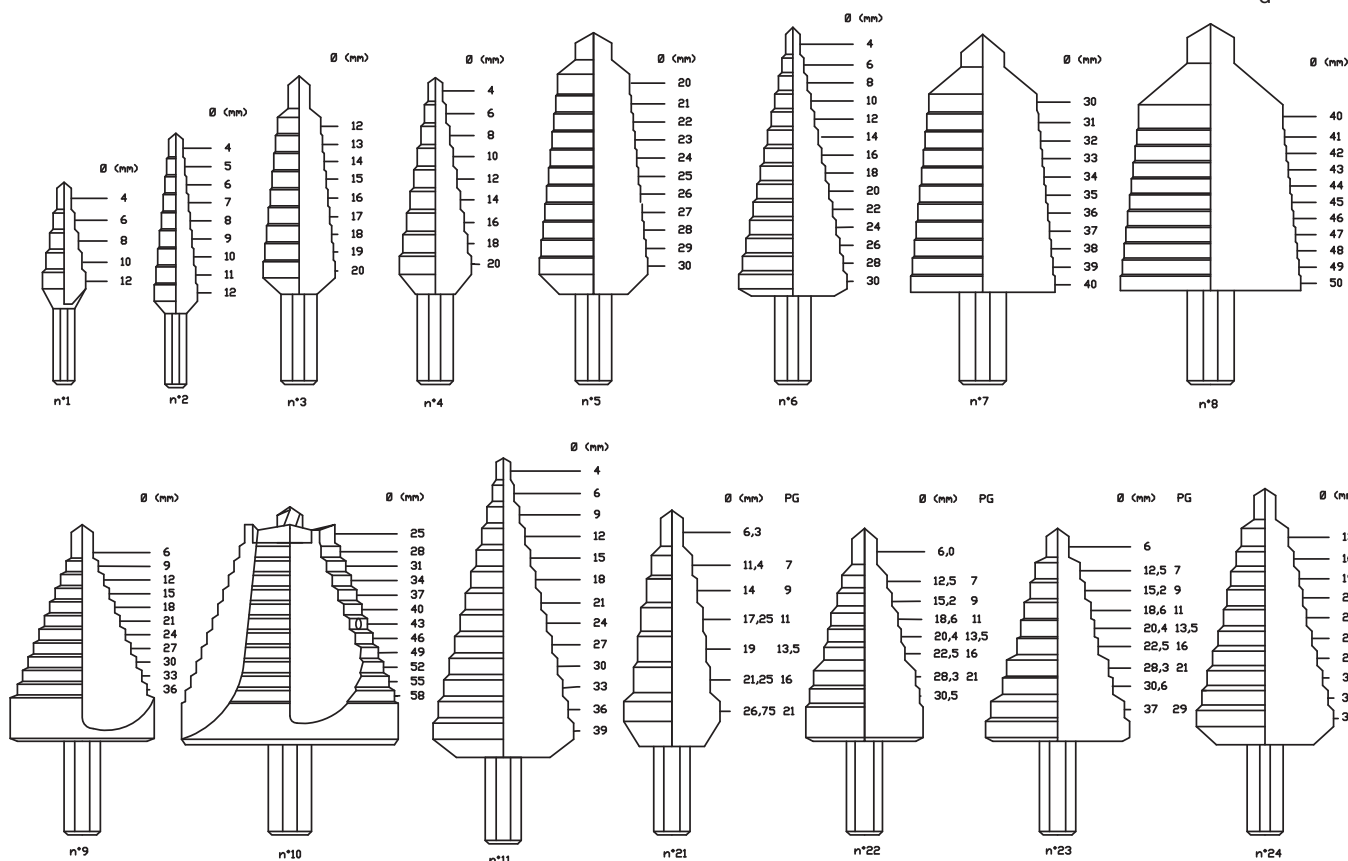
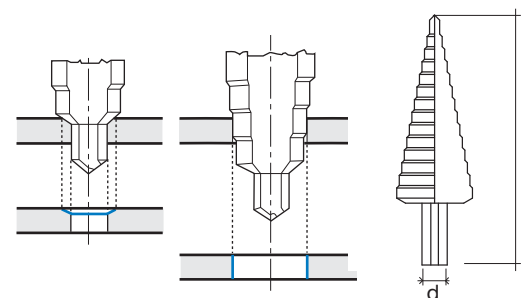
Gr.	Ø min.-max	Progressione Step (mm)	N° Gradini N° Steps	d (mm)	L (mm)	cod.	€ cad/each
1	4 ÷ 12	2	5	6	56	0118301	
2	4 ÷ 12	1	9	6	70	0118302	
3	12 ÷ 20	1	9	10	85	0118303	
4	4 ÷ 20	2	9	10	85	0118304	
5	20 ÷ 30	1	11	10	97	0118305	
6	4 ÷ 30	2	13	10	97	0118306	
7	30 ÷ 40	1	11	13	97	0118307	
8	40 ÷ 50	1	11	13	100	0118308	
9	6 ÷ 36	3	10	10	80	0118309	
*10	10 ÷ 58	3	12	13	90	0118310	
11	4 ÷ 39	3	13	10	107	0118311	
Pg							
21	6,3 ÷ 26,75	-	7	10	91	0118321	
22	6 ÷ 30,5	-	7	10	80	0118322	
23	6 ÷ 37	-	7	10	85	0118323	
24	6 ÷ 38	-	11	10	96	0118324	



*Ricambio - Spare part

Ø x L	cod.	€ cad/each
10x48	0118300	

Confezione / Packaging



Assortimenti utensili conici HSS-G

HSS-G conical drill bits sets / Assortiments de forets coniques et étages HSS-G
Surtidos de brocas conicas HSS-G para planchas / HSS-G Blebschälbohrer Sortimente



01259102

01259105



ABS

GR. 2 - 4 - 6



ABS

GR. 2 - 3 - 5

Cod.	Composizione Description
01259102 HSS-G €	Gr.2 4÷12 mm Gr.4 4÷20 mm Gr.6 4÷30 mm
01259105 HSS-G €	Gr.2 4÷12 mm Gr.3 12÷20 mm Gr.5 20÷30 mm



01195860

Utensili conici a gradino in HSS-G con attacco 1/4" per forare e allargare lamiere e tubi

HSS-G step drill bits, 1/4" shank / Forets étages HSS-G avec queue 1/4" / Brocas escalonadas HSS-G con mango 1/4" / HSS-G Stufenbohrer

HSS-G

01239



CBN
AISI M2
HV:820

1/4 Q.C.

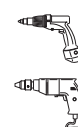
Gr.	Ø min.-max	Progressione Step (mm)	N° Gradini N° Steps	d 1/4"	L (mm)	cod.	€ cad/each
2	4 ÷ 12	1	9	1/4	68	0123902	
4	4 ÷ 20	2	9	1/4	78	0123904	
6	4 ÷ 30	2	13	1/4	101	0123906	



ABS

GR. 2 - 4 - 6

Cod.	Composizione Description
01259118 HSS-G €	Gr.2 4÷12 mm Gr.4 4÷20 mm Gr.6 4÷30 mm



Confezione / Packaging



Applicazioni / Applications

R ≤ 800 N/mm²



Acciaio
Steel



Metals



Alu



Plastics

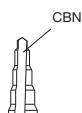
- Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore. Taglio veloce, alto rendimento.
- For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness. Fast cutting, high performance.
- Perçage precise et haute rendement dans tous matériaux de faible épaisseur (max 5 mm).
- Grande rendimiento y precision para cortar tubo y chapa de acero, aleaciones ligeras, plexiglass (5 mm profundidad).

Utensili conici a gradino rivestiti al TiN e a TiAlN

TiN and TiAlN coated step drill bits / Forets étages revêtus au TiN et TiAlN

Brocas escalonadas con recubrimiento de TiN y TiAlN / Stufenbohrer TiN-TiAlN beschichtet

01230



HSS-G + TiN
HV 0,05 = 2300

Gambo
antidrucciolo
High grip shank

Confezione / Packaging



GR. 2-4-6
01259103
HSS-G + TiN
€

HSS-G + TiN

Metric - per costruzione - for construction

Gr.	Ø min.-max	Progressione Step (mm)	N° Gradini N° Steps	d (mm)	L (mm)	cod.	€ cad/each
1	4 ÷ 12	2	5	6	56	0123001	
2	4 ÷ 12	1	9	6	70	0123002	
3	12 ÷ 20	1	9	10	85	0123003	
4	4 ÷ 20	2	9	10	85	0123004	
5	20 ÷ 30	1	11	10	97	0123005	
6	4 ÷ 30	2	13	10	97	0123006	
7	30 ÷ 40	1	11	13	97	0123007	
8	40 ÷ 50	1	11	13	100	0123008	
9	6 ÷ 36	3	10	10	80	0123009	
10	10 ÷ 58	3	12	13	90	0123010	
11	4 ÷ 39	3	13	10	107	0123011	
Pg							
21	6,3 ÷ 26,75	-	7	10	91	0123021	
22	6 ÷ 30,5	-	7	10	80	0123022	
23	6 ÷ 37	-	7	10	85	0123023	
24	6 ÷ 38	-	11	10	96	0123024	



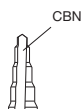
USO INTENSIVO
INTENSIVE USE
R≤1000 N/mm²

Applicazioni / Applications



- 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.
- Perçage precise et haute rendement dans tous matériaux de faible épaisseur (max 5 mm).
- Grande rendimiento y precision para cortar tubo y chapa de acero, aleaciones ligeras, plexiglass (5 mm profundidad).
- Große Präzision und Leistung zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher

01236



HSS-G + TiAlN
HV 0,05 = 3300

Gambo
antidrucciolo
High grip shank

GR. 2-4-6
01259104
HSS-G + TiAlN
€

HSS-G + TiAlN

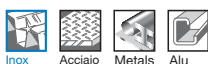
Metric - per costruzione - for construction

Gr.	Ø min.-max	Progressione Step (mm)	N° Gradini N° Steps	d (mm)	L (mm)	cod.	€ cad/each
1	4 ÷ 12	2	5	6	56	0123601	
2	4 ÷ 12	1	9	6	70	0123602	
3	12 ÷ 20	1	9	10	85	0123603	
4	4 ÷ 20	2	9	10	85	0123604	
5	20 ÷ 30	1	11	10	97	0123605	
6	4 ÷ 30	2	13	10	97	0123606	
7	30 ÷ 40	1	11	13	97	0123607	
8	40 ÷ 50	1	11	13	100	0123608	
9	6 ÷ 36	3	10	10	80	0123609	
10	10 ÷ 58	3	12	13	90	0123610	
11	4 ÷ 39	3	13	10	107	0123611	
Pg							
21	6,3 ÷ 26,75	-	7	10	91	0123621	
22	6 ÷ 30,5	-	7	10	80	0123622	
23	6 ÷ 37	-	7	10	85	0123623	
24	6 ÷ 38	-	11	10	96	0123624	



USO INTENSIVO
INTENSIVE USE
R≤1200 N/mm²

Applicazioni / Applications

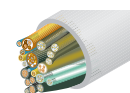


- Per fori cilindrici e precisi in lamiera di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.
- For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.
- Perçage precise et haute rendement dans tous matériaux de faible épaisseur (max 5 mm).
- Grande rendimiento y precision para cortar tubo y chapa de acero, aleaciones ligeras, plexiglass (5 mm profundidad).
- Große Präzision und Leistung zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher

Utensili conici universali per preforni di filettatura di **tubi per cavi di conduzione elettrica**

KRINO®

Universal step drill bits for cables connections / Forets étages universelles pour tubes avec armature en acier
Brocas escalonados universales para tubos de conducción eléctrica / Universal-Stufenbohrer für Kabelverschraubungen



NEW

0125405

0125406

0125407

METRIC - DIN-EN 60423



HSS-G



HSS-G + TiN

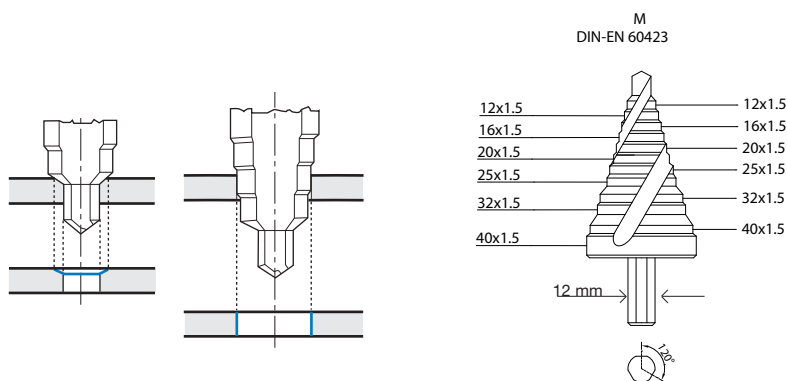


HSS-G + TiAlN

Metric Universal

Cod.	Composizione Description
0125405 HSS-G €	Ø 7÷40,5 mm M 12x1,5÷40x1,5
0125406 HSS-G + TiN €	Ø 7÷40,5 mm M 12x1,5÷40x1,5
0125407 HSS-G + TiAlN €	Ø 7÷40,5 mm M 12x1,5÷40x1,5

COMBINATO UNIVERSALE: per fori nocciolo e fori passanti DIN EN 60423
COMBINED UNIVERSAL: for core holes and through holes DIN EN 60423



0125401*

0125402*

PG - DIN-EN 40430

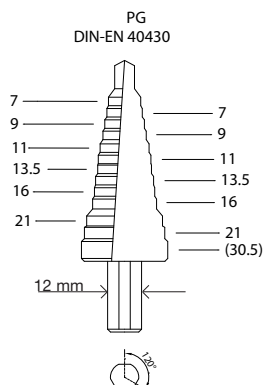
Norma in disuso - Old rule - Norme en désuétude
Norma en desuso - Veraltete Norme



HSS-G



HSS-G + TiN



PG Drill Universal

Cod.	Composizione Description
0125401 HSS-G €	Ø 6÷30,5 mm Pg 7÷21
0125402 HSS-G + TiN €	Ø 6÷30,5 mm Pg 7÷21

COMBINATO UNIVERSALE: per fori nocciolo e fori passanti DIN EN 40430*
COMBINED UNIVERSAL: for core holes and through holes DIN EN 40430

*In esaurimento - to be discontinued

Punta fresa in HSS-CO per rimuovere punti di saldatura e per forare lamiere in genere

HSS-CO spot drills / Fraise pour points de soudure

Fresas para puntos de soldaduras / Schweisspunktbohrer

01171 01169



≈ DIN 1897



~DIN 1412/E

Confezione / Packaging

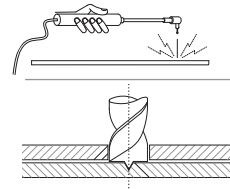


Art. 01171 HSS-CO

Ø	d	L	cod.	€ cad/each
6	6	66	0117106	
7	7	74	0117107	
8	8	79	0117108	
10	10	89	0117110	

Art. 01169 HSS-CO+TiN

Ø	d	L	cod.	€ cad/each
6	6	66	011690600	
7	7	74	011690700	
8	8	79	011690800	
10	10	89	011691000	



Punta fresa per rimuovere punti di saldatura con macchine pneumatiche

Milling drill for removing spot welds with pneumatic tools / Fraise pour enlever les points de soudure avec machines pneumatiques

Fresa para quitar los puntos de soldadura con las máquinas neumáticas / Schweißpunktfräser für pneumatische Maschinen

01172 01173



~DIN 1412/E

Art. 01172 HSS-CO

Ø	d	L	cod.	€ cad/each
6,5	6,5	40	011720650	
6,5 vario	8	44	011720650V	
8	8	40	011720800	
8 vario	8	44	011720800V	

Art. 01173 HSS-CO+TiN

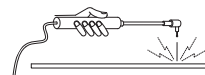
Ø	d	L	cod.	€ cad/each
6,5	6,5	40	011730650	
6,5 vario	8	44	011730650V	
8	8	40	011730800	
8 vario	8	44	011730800V	

01179

MD + TiAIN
Solid carbide + TiAIN

Art. 01179 Metallo duro - Solid carbide - Carbure - Metal duro

Ø	d	L	cod.	€ cad/each
6,5	8	40	011790650	
8	8	40	011790800	
10	8	44	011791000	

Speciale per taglio di acciai molto duri con carico di resistenza fino a 1500N/mm²; grande rendimento grazie all'accoppiamento metallo duro + rivestimento TiAIN 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 TiAIN multilayer coating.

Fresa per rimuovere i punti di saldatura su lamiere metalliche

Milling cutter for removing spot welds from metal sheets / Fraise pour enlever les points de soudure de la tôle
Fresa para quitar los puntos de soldadura de las planchas metálicas / Schweißpunktfräser für Bleche



HSS

Ø	d	L	cod.	€ cad/each
10	7	72	01174100	

01174

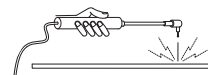
Ricambi - Spare parts



01174101 €



01174102 €



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 / Fraise universel pour couper et fraiser la tôle et les matériaux fins en bois ou plastique / Fresa universal para cortar y fresar planchas y materiales finos de madera y plástico / Mehrzweckfräser für die Bohrung und das Fräsen von Bleche und dünnen Holz-Kunststoffmaterialien

HSS

01175 05432



HSS

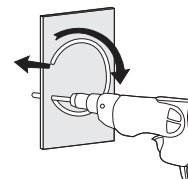


CV

Confezione / Packaging



ØxL	cod.	€ cad/each
6 x 90	011750600	

01175
05432

C.V

ØxL	cod.	€ cad/each
6 x 90	05432120	

Punte per tracciare con riporto in metallo duro

Carbide scribes / Pointe carbure à tracer / Punta para trazar / Hartmetall Reißspitze

0314201



0314202



cod.	L	€ cad/each
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0314201	200
0314202	150

03142



03142



Punteruolo

Punch



CV

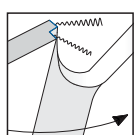
cod.	L	€ cad/each
4100101	78	

41001

Frese perforatrici a tazza in HSS-G interamente rettificate per forare lamiere in acciaio, ferro, leghe leggere, tutti i materiali metallici, plastica dura

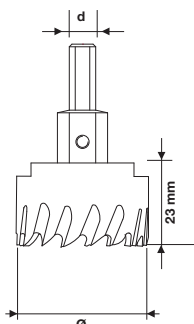
HSSG fully ground hole cutters / Scies tréfans HSSG rectifiées

Coronas perforadoras HSSG rectificadas - HSSG Lochsägen

HSS-G**21001**

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

HSS-G
 HRC ≈ 64



- 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
- Dessin innovateur de la denture et coup latéral: meilleur extraction des copeaux avec un élevé rendement du coupe
- Diseño innovador de los dientes y corte lateral: mejor extracción de las virutas con un alto rendimiento de corte
- Erneuerungszeichnung der Zahnung und Seitenschnitt: besser Abziehen der Späne mit Hochleistung des Schnitts.

Confezione / Packaging

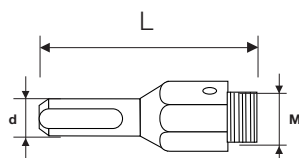


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12	2100101200		41	2100104100	
13	2100101300		42	2100104200	
14	2100101400		43	2100104300	
15	2100101500		44	2100104400	
16	2100101600		45	2100104500	
17	2100101700		46	2100104600	
18	2100101800		47	2100104700	
19	2100101900		48	2100104800	
20	2100102000		49	2100104900	
21	2100102100		50	2100105000	
22	2100102200		51	2100105100	
23	2100102300		52	2100105200	
24	2100102400		53	2100105300	
25	2100102500		54	2100105400	
26	2100102600		55	2100105500	
27	2100102700		56	2100105600	
28	2100102800		57	2100105700	
29	2100102900		58	2100105800	
30	2100103000		59	2100105900	
31	2100103100		60	2100106000	
32	2100103200		65	2100106500	
33	2100103300		70	2100107000	
34	2100103400		75	2100107500	
35	2100103500		80	2100108000	
36	2100103600		85	2100108500	
37	2100103700		90	2100109000	
38	2100103800		95	2100109500	
39	2100103900		100	2100110000	
40	2100104000				

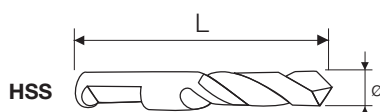


Ø ≥ 20mm

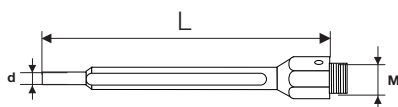
cod. €
cad/each
21005098

Gambo - Arbor

Per frese Fit hole cutters	L	d	M	cod.	€ cad/each
Ø 12 ÷ 14	56	8	10 x 1,25	21005099	
Ø 15 ÷ 34	56	10	12 x 1,25	21005100	
Ø 35 ÷ 50	56	10	14 x 1,5	21005102	
Ø 51 ÷ 100	60	12	16 x 1,5	21005101	

Punta pilota - Pilot drill

Per frese Fit hole cutters	Ø x L	cod.	€ cad/each
Ø 12 ÷ 100	6x50	21005110	

Prolunga 400 mm - Extension

Per frese Fit hole cutters	L mm	d	M	cod.	€ cad/each
Ø 15 ÷ 34	400	13	12 x 1,25	21005120	
Ø 35 ÷ 50	400	13	14 x 1,5	21005122	
Ø 51 ÷ 100	400	13	16 x 1,5	21005121	

Assortimenti frese perforatrici a tazza HSS-G

HSS-G hole-cutters sets / Assortiments de scies trépan HSS-G
Juegos de corona perforadoras HSS-G / HSS-G Lochsägensätze



Cod.

21010100
39 pcs
Ø 12÷50x1mm
€

21010101
31 pcs
Ø 12÷40x1+45-50mm
€

21010102
21 pcs
Ø 18÷35x1+36-38-40mm
€

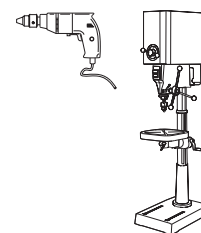
21010104
11 pcs
Ø 16-18-20-21-22-25
27-28-30-32-35mm
€



Cod.

21010300
8 pcs
Ø 16-18-20-22- 25-30-32-35
€

21010301
6 pcs
Ø 16-18-20-22- 25-30
€



Applicazioni / Applications



R_s800 N/mm²



- Dentatura ricavata interamente di rettifica, taglio laterale rompitruciolo, molla di espulsione del dischetto. **Profondità di foratura sino a 5 mm. 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, **cutting depth up to 5 mm.** High performances and precision in hole-making into metal sheets, light alloys, all kind of metals.
- Trépan HSS rectifié avec coupe latérale pour perçage haute rendement en acier et métaux courants en construction mécanique, entretien, installations électriques et sanitaires. **Épaisseur de coupe: 5 mm. Outil reffilable.**
- Corona perforadora rectificada con corte lateral para cortar planchas y tubos de hierro, acero, metales. **Profundidad de corte: 5 mm. utensilio reafilable.**
- HSS Lochsägen mit geschliffene Zähnen für die präzise Schneide und große Leistung in Stahlblätter.

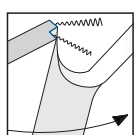
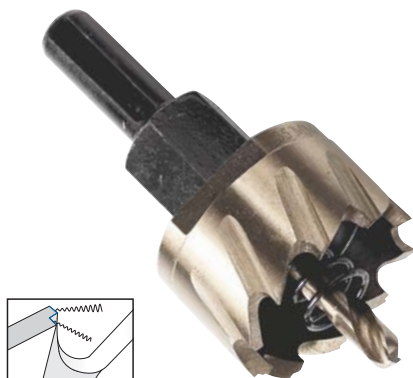
Frese perforatrici a tazza in **HSS-CO** interamente rettificate per forare lamiere in acciaio inox, acciai altamente legati, ferro, leghe leggere e metalli in genere.

HSS-CO fully ground hole cutters / Scies trépan HSS-CO rectifiées

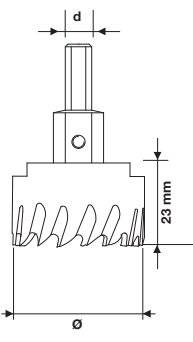
Coronas perforadoras HSS-CO rectificadas - HSS-CO Lochsägen

COBALT

21011



HSS-CO AISI M35
HRC ≈ 64÷65



Confezione / Packaging



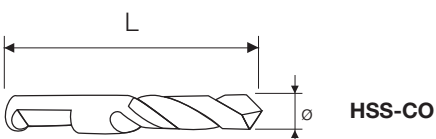
Ø	cod.	€ cad/each	Ø	cod.	€ cad/each
12	2101101200		39	2101103900	
13	2101101300		40	2101104000	
14	2101101400		41	2101104100	
15	2101101500		42	2101104200	
16	2101101600		43	2101104300	
17	2101101700		44	2101104400	
18	2101101800		45	2101104500	
19	2101101900		46	2101104600	
20	2101102000		47	2101104700	
21	2101102100		48	2101104800	
22	2101102200		49	2101104900	
23	2101102300		50	2101105000	
24	2101102400		51	2101105100	
25	2101102500		52	2101105200	
26	2101102600		53	2101105300	
27	2101102700		54	2101105400	
28	2101102800		55	2101105500	
29	2101102900		56	2101105600	
30	2101103000		57	2101105700	
31	2101103100		58	2101105800	
32	2101103200		59	2101105900	
33	2101103300		60	2101106000	
34	2101103400		65	2101106500	
35	2101103500		70	2101107000	
36	2101103600		75	2101107500	
37	2101103700		80	2101108000	
38	2101103800				



Ø ≥ 20mm

cod.
21005098
€
cad/each

Punta pilota - Pilot drill



Per frese
Fit hole cutters

Ø x L

cod.

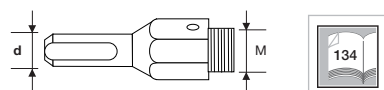
€
cad/each

Ø 12 ÷ 80

6x50

21005115

Gambo - Arbor



Assortimenti frese perforatrici a tazza HSS-CO

HSS-CO hole-cutters sets / Assortiments de scies trépan HSS-CO
Juegos de corona perforadoras HSS-CO / HSS-CO Lochsägensätze

KRINO



Cod.

21013100
39 pcs
Ø 12÷50x1mm
€

21013101
31 pcs
Ø 12÷40x1+45-50mm
€

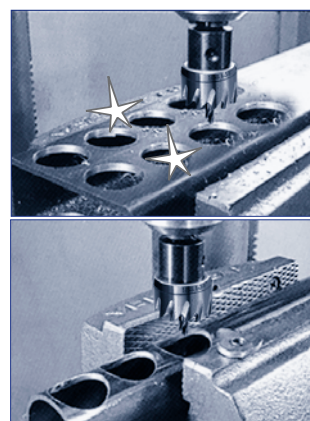
21013102
21 pcs
Ø 18÷35x1+36-38-40mm
€



Cod.

21013300
8 pcs
Ø 16-18-20-22- 25-30-32-35
€

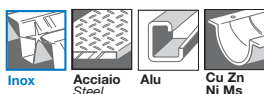
21013301
6 pcs
Ø 16-18-20-22- 25-30
€



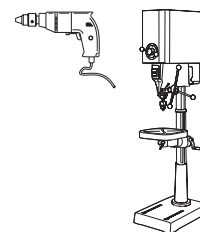
Applicazioni / Applications



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



- L'innovativo disegno dei taglienti, insieme all'elevata qualità dell'acciaio al cobalto AISI M35, la rendono particolarmente adatta al taglio dell'acciaio inox, degli acciai altolegati, leghe leggere e metalli in genere: grande rendimento e precisione di foratura nel taglio di spessori sino a 5 mm.
- The upgrade teeth design together with the high quality of the cobalt steel AISI M35 make it particularly suitable for cutting stainless steel, high-alloy steels, light alloys and metals: high performance and precision of the cut in sections up to 5 mm thick.
- Le dessin innovateur de la denture ainsi que l'élevée qualité de l'acier au cobalt AISI M35 la rendent particulièrement indiquée pour le coupe de l'acier inoxydable, des aciers alliés, alliages légers et métaux en général: élevé rendement et précisions du coupe de sections jusqu'à 5 mm d'épaisseur.
- El diseño innovador de los dientes junto a la elevada calidad del acero de cobalto AISI M35 la rendono particolarmente apta para el corte del acero inoxidable, de los aceros ligados, aleaciones ligeras y metales en general: elevado rendimiento y precision de corte de espesores hasta 5 mm.
- Die Erneuerungszeichnung der Zahnung und die hohe Qualität des Kobaltsthal AISI M35 machen sie sehr geeignet für den Schnitt von rostfreierem Stahl, hochlegierten Stähle, Leichtmetall-Legierungen und Metalle: Hochleistung und Genauigkeit des Schnitts von Dicke bis 5 mm.



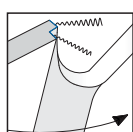
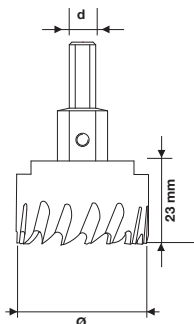
Frese perforatrici a tazza in HSS-G rettificate rivestite al TiN per forare lamiere in acciaio altolegato, acciaio inox, ferro, tutti i materiali metallici, plastica dura.

HSS-G+TiN fully ground hole cutters / Scies trépan HSS-G+TiN rectifiées

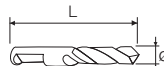
Coronas perforadoras HSS-G+TiN rectificadas - HSS-G+TiN Lochsägen

TiN

21300

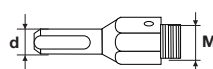
HSS-G+TiN
HV 0,05 ≈ 2300

Ø	cod.	€ cad/each	Ø	cod.	€ cad/each
12	2130001200		41	2130004100	
13	2130001300		42	2130004200	
14	2130001400		43	2130004300	
15	2130001500		44	2130004400	
16	2130001600		45	2130004500	
17	2130001700		46	2130004600	
18	2130001800		47	2130004700	
19	2130001900		48	2130004800	
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22	2130002200		51	2130005100	
23	2130002300		52	2130005200	
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25	2130002500		54	2130005400	
26	2130002600		55	2130005500	
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29	2130002900		58	2130005800	
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34	2130003400		75	2130007500	
35	2130003500		80	2130008000	
36	2130003600		85	2130008500	
37	2130003700		90	2130009000	
38	2130003800		95	2130009500	
39	2130003900		100	2130010000	
40	2130004000				

Punta pilota - HSS-CO
Pilot drill

Ø x L	cod.	€ cad/each
6x50	21005115	

Gambo - Arbor



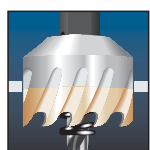
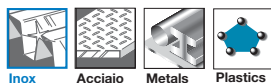
Cod.

21320100
39 pcs
Ø 12÷50x1mm
€21320101
31 pcs
Ø 12÷40x1+45-50mm
€21320102
21 pcs
Ø 18÷35x1+36-38-40mm
€

Cod.

21320300
8 pcs
Ø 16-18-20-22- 25-30-32-35
€21320301
6 pcs
Ø 16-18-20-22- 25-30
€

Applicazioni / Applications

R_s ≤ 1000 N/mm²

- 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.
- Le revêtement ou Nitrure de titane, élève la dureté superficielle et réduit le coefficient de friction, en permettant de percer dans des aciers haute alliés et particulièrement dans l'acier inoxydable. Les fraises au TiN sont aussi indiquées pour percer dans l'aluminium et tous les matériaux abrasifs (plastique dur; polyester renforcé de verre). Naturellement le coupe dans les aciers doux est très élevé.
- El recubrimiento en Nitrato de Titanio, elevando la dureza superficial y reduciendo el coeficiente de fricción, permite el corte en los aceros altamente aliados y particularmente en el acero inoxidable. Las fresas al TiN son también indicadas para el corte en el aluminio y en todos los materiales abrasivos (plásticos duros, vidrio-resina). Naturalmente, el rendimiento de los cortes en los aceros dulces es muy elevado.
- HSS Lochsägen mit geschliffene und TiN-beschichtete Zähne für die präzise Schneide und große Leistung in Edelstahl und Schleifmaterialien.



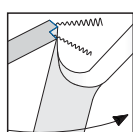
Frese perforatrici a tazza in HSS rivestite al TiAlN per forare lamiere in acciaio altolegato, acciaio inox, ferro, tutti i materiali metallici, plastica dura.



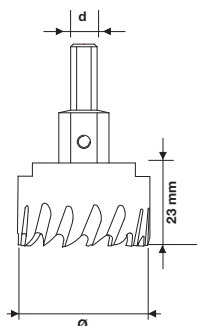
HSS-TiAlN fully ground hole cutters / Scies trépan HSS-TiAlN rectifiées
Coronas perforadoras HSS-TiAlN rectificadas - HSS-TiAlN Lochsägen

TiAlN

21325



HSS-TiAlN
HV 0,05 $\approx$ 3300



Ø	cod.	€ cad/each	Ø	cod.	€ cad/each
12	2132501200		41	2132504100	
13	2132501300		42	2132504200	
14	2132501400		43	2132504300	
15	2132501500		44	2132504400	
16	2132501600		45	2132504500	
17	2132501700		46	2132504600	
18	2132501800		47	2132504700	
19	2132501900		48	2132504800	
20	2132502000		49	2132504900	
21	2132502100		50	2132505000	
22	2132502200		51	2132505100	
23	2132502300		52	2132505200	
24	2132502400		53	2132505300	
25	2132502500		54	2132505400	
26	2132502600		55	2132505500	
27	2132502700		56	2132505600	
28	2132502800		57	2132505700	
29	2132502900		58	2132505800	
30	2132503000		59	2132505900	
31	2132503100		60	2132506000	
32	2132503200		65	2132506500	
33	2132503300		70	2132507000	
34	2132503400		75	2132507500	
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36	2132503600		85	2132508500	
37	2132503700		90	2132509000	
38	2132503800		95	2132509500	
39	2132503900		100	2132510000	
40	2132504000				

Punta pilota - HSS-CO
Pilot drill



Ø x L	cod.	€ cad/each
6x50	21005115	

Gambo - Arbor



Cod.

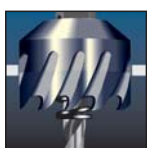
21335100 39 pcs Ø 12÷50x1mm €	21335101 31 pcs Ø 12÷40x1+45-50mm €	21335102 21 pcs Ø 18÷35x1+36-38-40mm €
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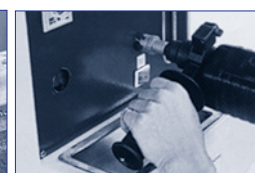
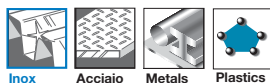
Cod.

21335300 8 pcs Ø 16-18-20-22- 25-30-32-35 €	21335301 6 pcs Ø 16-18-20-22- 25-30 €
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Applicazioni / Applications



R $\leq$ 1300 N/mm²

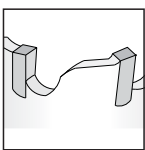


- Frese a tazza HSS+TiAlN: più si "scalda", più rende. È un esclusivo rivestimento PVD che permette il taglio a secco ad elevati parametri di taglio e con rendimenti eccezionali nell'acciaio inox e in tutti i materiali in genere.
- HSS+TiAlN hole cutters: The more it "heats" the more it performs. It 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.
- Scies trépan en acier rapid + TiAlN: Plus "chaude" elle devient, plus c'est performante. C'est une exclusive revêtement PVD qui permet le coupe à froid avec des hautes paramètres de perforation avec des performances exceptionnelles en travaillant dans l'acier inoxydable et tous les matériaux.
- Corona perforadora en acero rapido + TiAlN: Lo mas se "calenta", lo mas es performante. Es un recubrimiento PVD exclusivo, permite el corte seco con elevados parametros de corte y con optimos rendimientos cortando en el acero inoxidable y todos los materiales.
- HSS Lochsägen mit geschliffene und TiAlN-beschichtete Zähne für hitzbeständige Stähle und für die präzise Schneide und große Leistung in Edelstahl und Schleifmaterialien.

Frese a tazza TCT ad albero mobile per forare lamiere in acciaio inox, acciai duri trattati

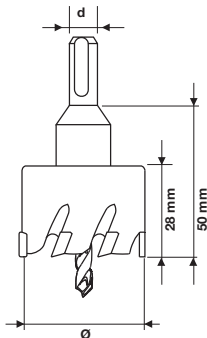
Tungsten carbide tipped hole saws for stainless and hard metal sheets / Scies tréfans au carbure de tungstène pour la tôle en acier inox
Coronas con dientes de metal duro para planchas en acero inoxidable y duro / Hartmetallochsägen für nicht rostenden Stahl

21040



Inserti in metallo duro
Carbide tips

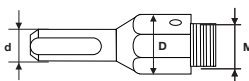
Confezione / Packaging



Ø	d	cod.	€ cad/each	Ø	d	cod.	€ cad/each
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16	10	2104001600		45	13	2104004500	
17	10	2104001700		46	13	2104004600	
18	10	2104001800		47	13	2104004700	
19	10	2104001900		48	13	2104004800	
20	10	2104002000		49	13	2104004900	
21	10	2104002100		50	13	2104005000	
22	10	2104002200		51	13	2104005100	
23	10	2104002300		52	13	2104005200	
24	10	2104002400		53	13	2104005300	
25	10	2104002500		54	13	2104005400	
26	10	2104002600		55	13	2104005500	
27	10	2104002700		56	13	2104005600	
28	10	2104002800		57	13	2104005700	
29	10	2104002900		58	13	2104005800	
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33	10	2104003300		70	13	2104007000	
34	10	2104003400		75	13	2104007500	
35	10	2104003500		80	13	2104008000	
36	10	2104003600		85	13	2104008500	
37	10	2104003700		90	13	2104009000	
38	10	2104003800		95	13	2104009500	
39	13	2104003900		100	13	2104010000	
40	13	2104004000		*105	13	2104010500	
41	13	2104004100		*110	13	2104011000	
42	13	2104004200		*115	13	2104011500	
43	13	2104004300		*120	13	2104012000	

*105÷120 Frese integrali One piece

Gambo - Arbor



Per frese
Fit hole cutters

	d	D	M	cod.	€ cad/each
Ø 15 ÷ 21	10	15	12 x 1,5	21045120	
Ø 22 ÷ 38	10	19	14 x 1,5	21045121	
Ø 39 ÷ 100	13	22	14 x 1,5	21045122	

Punta pilota - Pilot drill



Per frese
Fit hole cutters

	Ø x L	cod.	€ cad/each
Ø 15 ÷ 100	6x62	21045100	
Ø105 ÷ 120	8x62	21045101	



Cod.

21055130
28 pcs
Ø 15÷40x1+45-50mm
€

21055131
21 pcs
Ø 18÷35x1+36-38-40mm
€

Cod.

21055300
8 pcs
Ø 16-18-20-22- 25-30-32-35
€

21055301
6 pcs
Ø 16-18-20-22- 25-30
€



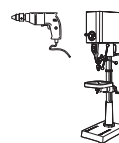
Applicazioni / Applications



R≤1300 N/mm²



- Denti in metallo duro speciale, affilati e spogliati, processo di brasatura completamente automatico, corpo rigido. Si ottengono fori precisi, con grande rendimento, nel taglio delle lamiere in acciaio inox (anche a secco) e acciai duri in genere. Si consiglia un buon lubrificante, ove possibile. Massima profondità di taglio: 5 mm.
- Special carbide tips sharpened, high temperature brazing, steady body. High performances in hole cutting of stainless and tough steel sheets. Cutting oil is recommended. Maximum cutting depth: 5 mm.
- Tréfans T.C.T. recommandés pour la coupe de matériaux très durs tels que acier traité, acier inox.
- Coronas perforadoras con dientes de metal duro para cortar planchas y tubos de acero inox, acero tratado, etc...
- Lochsägen mit H.M. Zähnen für Bohren in Stahl, nicht rostende Stähle etc.



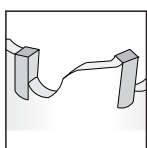
Frese a tazza TCT ad albero mobile per forare lamiere, tubi, profilati in acciaio inox e acciai duri trattati



Tungsten carbide tipped hole saws for stainless and hard metal sheets / Scies trépan au carbure de tungstène pour la tôle en acier inox
Coronas con dientes de metal duro para planchas en acero inoxidable y duro / Hartmetallochsägen für nicht rostenden Stahl

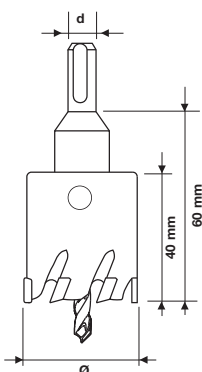
Serie lunga / Long serie / Série longue / Serie larga / Lange Ausführung

21042



Inserti in metallo duro
Carbide tips

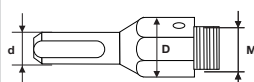
Confezione / Packaging



Ø	d	cod.	€ cad/each	Ø	d	cod.	€ cad/each
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21	10	2104202100		46	13	2104204600	
22	10	2104202200		47	13	2104204700	
23	10	2104202300		48	13	2104204800	
24	10	2104202400		49	13	2104204900	
25	10	2104202500		50	13	2104205000	
26	10	2104202600		51	13	2104205100	
27	10	2104202700		52	13	2104205200	
28	10	2104202800		53	13	2104205300	
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30	10	2104203000		55	13	2104205500	
31	10	2104203100		56	13	2104205600	
32	10	2104203200		57	13	2104205700	
33	10	2104203300		58	13	2104205800	
34	10	2104203400		59	13	2104205900	
35	10	2104203500		60	13	2104206000	
36	10	2104203600		65	13	2104206500	
37	10	2104203700		70	13	2104207000	
38	10	2104203800		75	13	2104207500	
39	13	2104203900		80	13	2104208000	
40	13	2104204000		85	13	2104208500	
41	13	2104204100		90	13	2104209000	
42	13	2104204200		95	13	2104209500	
43	13	2104204300		100	13	2104210000	
44	13	2104204400					

Gambo - Arbor

Per frese
Fit hole cutters



d	D	M	cod.	€ cad/each
Ø 15 ÷ 21	10	15	12 x 1,5	21045120
Ø 22 ÷ 38	10	19	14 x 1,5	21045121
Ø 39 ÷ 100	13	22	14 x 1,5	21045122

Punta pilota - Pilot drill HSS-CO



Ø x L	cod.	€ cad/each
6x78	21045102	

Cod.

21055135
22 pcs
Ø 20÷40x1+45-50mm
€



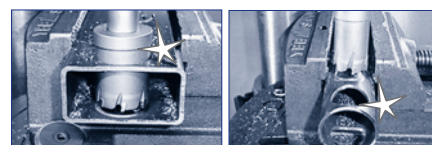
Applicazioni / Applications



R≤1300 N/mm²



- 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. Spessore massimo di taglio: 5 mm
- 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. Maximum cutting thickness: 5mm
- La spéciale géométrie variable de la denture en métal dur de haute qualité permet de couper professionnellement et avec un rendement très élevé la tôle, les tubes et les profilés en acier inoxydable, acier allié et matériaux à résistance élevée. Épaisseur maximum de coupe: 5mm
- La especial geometría variable de los dientes de metal duro de elevada calidad permite de realizar un corte profesional y de grande rendimiento en tubos, perfilados y planchas en acero inoxidable, acero ligado y materiales de elevada resistencia. Espesor máximo de corte: 5mm
- Die veränderbare Sondergeometrie der Zahnung aus Hartmetall erlaubt einen beruflichen Schnitt von Röhren, Profile und Bleche aus rostfreierem Stahl, hochlegiertem Stahl und hochfesterem Stahl. Größte Schnitt-Dicke: 5 mm



Frese a carotare in HSS con attacco Weldon per macchine a supporto magnetico e trapani a colonna con attacco Morse

Weldon shank HSS core drills for magnetic and pillar drilling machines / Fraises HSS à carotter avec Weldon queue pour machines à embase magnétique et perceuses fixes / Fresas HSS con mango Weldon para máquinas con base magnética y taladros estacionarios

HSS-G

WELDON

21200 L= 30 mm

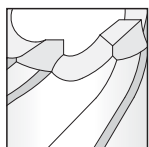
Serie corta / Short serie / Série courte /
Serie corta / Kurze Ausführung

21202 L= 50 mm

Serie lunga / Long serie / Série longue
Serie larga / Lange Ausführung

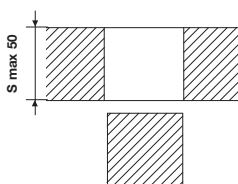
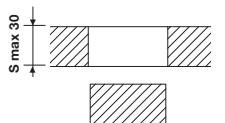
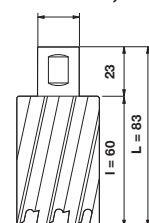
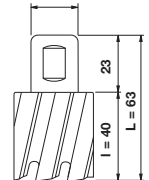
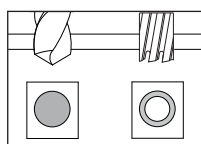
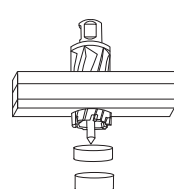
21200

21202



Weldon 19,05

Weldon 19,05

Vantaggi
AdvantagesAcciaio accoppiato
Stacked steel

Ø	I	L	cod.	€ cad/each
12	40	63	212001200	
13	40	63	212001300	
14	40	63	212001400	
15	40	63	212001500	
16	40	63	212001600	
17	40	63	212001700	
18	40	63	212001800	
19	40	63	212001900	
20	40	63	212002000	
21	40	63	212002100	
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32	40	63	212003200	
33	40	63	212003300	
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46	40	63	212004600	
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51	40	63	212005100	
52	40	63	212005200	
53	40	63	212005300	
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55	40	63	212005500	
60	40	63	212006000	

Ø	I	L	cod.	€ cad/each
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13	60	83	212021300	
14	60	83	212021400	
15	60	83	212021500	
16	60	83	212021600	
17	60	83	212021700	
18	60	83	212021800	
19	60	83	212021900	
20	60	83	212022000	
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28	60	83	212022800	
29	60	83	212022900	
30	60	83	212023000	
31	60	83	212023100	
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37	60	83	212023700	
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47	60	83	212024700	
48	60	83	212024800	
49	60	83	212024900	
50	60	83	212025000	
51	60	83	212025100	
52	60	83	212025200	
53	60	83	212025300	
54	60	83	212025400	
55	60	83	212025500	
60	60	83	212026000	

Ø 6,35x77



Ø 6,35x102



Cod.

21210300

€

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

21210302

€



Cod.

21210400

€

6 pcs
Ø 12-14-16-18-20-22
1 pcs

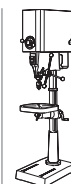
21210402

€

Applicazioni / Applications

R=850 N/mm²

- 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.
- Les fraises à carotter permettent une coupe rapide et économique, dans le fer, l'acier de construction, la fonte, les alliages légers et les métaux non ferreux. Spécial pour les plates en acier et la tôle, les tubes, les poutrelles et les profilés en acier.
- Las coronas permiten el corte rapido y economico en hierro, acero de construcción, fundición, aleaciones ligeras y materiales no ferrosos. Especial para platos de metal y chapas de gran espesor, tubos, vigas y perfilados.



28012

Frese a carotare in HSS-CO 5% con attacco Weldon per macchine a supporto magnetico e trapani a colonna con attacco Morse



Weldon shank HSS-CO 5% core drills for magnetic and pillar drilling machines / Fraises HSS-CO 5% à carotter avec Weldon queue pour machines à embase magnétique et perceuses fixes / Fresas HSS-CO 5% con mango Weldon para maquinas con base magnética y taladros estacionarios

HSS-CO 5%

WELDON

21206 L= 30 mm

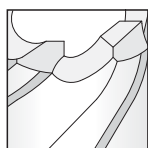
Serie corta / Short serie / Série courte /
Serie corta / Kurze Ausführung

21207 L= 50 mm

Serie lunga / Long serie / Série longue
Serie larga / Lange Ausführung

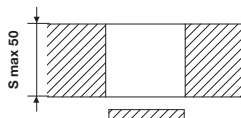
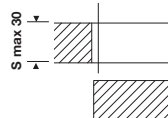
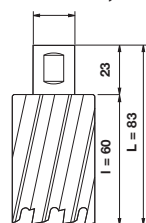
21206

21207

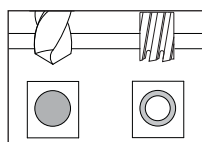


Weldon 19,05

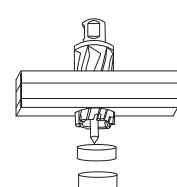
Weldon 19,05



Vantaggi
Advantages



Acciaio accoppiato
Stacked steel



Ø	I	L	cod.	€ cad/each
12	40	63	212061200	
13	40	63	212061300	
14	40	63	212061400	
15	40	63	212061500	
16	40	63	212061600	
17	40	63	212061700	
18	40	63	212061800	
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46	40	63	212064600	
47	40	63	212064700	
48	40	63	212064800	
49	40	63	212064900	
50	40	63	212065000	
55	40	63	212065500	
60	40	63	212066000	

Ø 6,35x77



Ø	I	L	cod.	€ cad/each
12	60	83	212071200	
13	60	83	212071300	
14	60	83	212071400	
15	60	83	212071500	
16	60	83	212071600	
17	60	83	212071700	
18	60	83	212071800	
19	60	83	212071900	
20	60	83	212072000	
21	60	83	212072100	
22	60	83	212072200	
23	60	83	212072300	
24	60	83	212072400	
25	60	83	212072500	
26	60	83	212072600	
27	60	83	212072700	
28	60	83	212072800	
29	60	83	212072900	
30	60	83	212073000	
31	60	83	212073100	
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38	60	83	212073800	
39	60	83	212073900	
40	60	83	212074000	
41	60	83	212074100	
42	60	83	212074200	
43	60	83	212074300	
44	60	83	212074400	
45	60	83	212074500	
46	60	83	212074600	
47	60	83	212074700	
48	60	83	212074800	
49	60	83	212074900	
50	60	83	212075000	
55	60	83	212075500	
60	60	83	212076000	

Ø 6,35x102



Cod.

21210306



€

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

21210307



€



Cod.

21210406



€

6 pcs
Ø 12-14-16-18-20-22
1 pcs

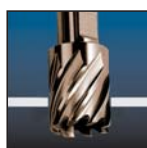
21210407



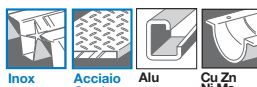
€



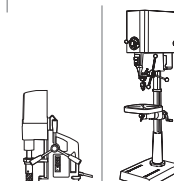
Applicazioni / Applications



R_s1200 N/mm²



- 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.
- Les fraises à carotter au 5% du cobalt permettent une coupe rapide et économique, dans l'acier inox, l'acier de construction, le fer, la fonte, les alliages légers et les métaux non ferreux. Spécial pour les plates en acier et la tôle, les tubes, les poutrelles et les profilés en acier.
- Las coronas de cobalto 5% permiten el corte rapido y economico en acero inoxidable, acero de construcción, fundición, aleaciones ligeras y materiales no ferrosos. Especial para platos de metal y chapas de gran espesor, tubos, vigas y perfilados.
- Die Kernbohrer aus Kobalt 5% erlauben einen schnellen und sparsamen Schnitt in rostfreier Stahl, Flacheisen, Baustahl, Gusseisen, Leichtmetall-Legierungen und Nichteisenmaterialien. Geeignet für Flächen und Bleche aus Stahl von großer Stärke, Röhren, Eisenträger und Profilstähle.



28012

Confezione / Packaging



Frese a carotare in HSS + TiAlN con attacco Weldon per macchine a supporto magnetico e trapani a colonna con attacco Morse

Weldon shank HSS + TiAlN core drills for magnetic and pillar drilling machines / Fraises HSS + TiAlN à carotter avec Weldon queue pour machines à embase magnétique et perceuses fixes / Fresas HSS + TiAlN con mango Weldon para maquinas con base magnética y taladros estacionarios

HSS + TiAlN

WELDON

21204 L= 30 mm

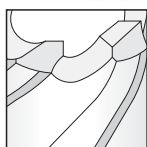
Serie corta / Short serie / Série courte /
Serie corta / Kurze Ausführung

21205 L= 50 mm

Serie lunga / Long serie / Série longue
Serie larga / Lange Ausführung

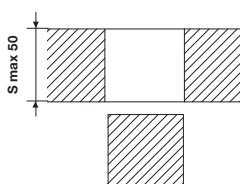
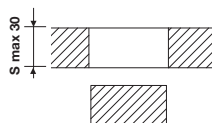
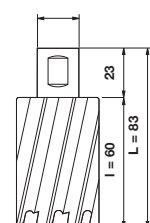
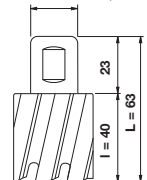
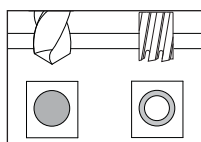
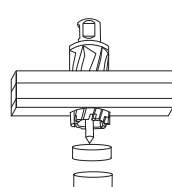
21204

21205



Weldon 19,05

Weldon 19,05

Vantaggi
AdvantagesAcciaio accoppiato
Stacked steel

Ø	I	L	cod.	€ cad/each
12	40	63	212041200	
13	40	63	212041300	
14	40	63	212041400	
15	40	63	212041500	
16	40	63	212041600	
17	40	63	212041700	
18	40	63	212041800	
19	40	63	212041900	
20	40	63	212042000	
21	40	63	212042100	
22	40	63	212042200	
23	40	63	212042300	
24	40	63	212042400	
25	40	63	212042500	
26	40	63	212042600	
27	40	63	212042700	
28	40	63	212042800	
29	40	63	212042900	
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32	40	63	212043200	
33	40	63	212043300	
34	40	63	212043400	
35	40	63	212043500	
36	40	63	212043600	
37	40	63	212043700	
38	40	63	212043800	
39	40	63	212043900	
40	40	63	212044000	
41	40	63	212044100	
42	40	63	212044200	
43	40	63	212044300	
44	40	63	212044400	
45	40	63	212044500	
46	40	63	212044600	
47	40	63	212044700	
48	40	63	212044800	
49	40	63	212044900	
50	40	63	212045000	
55	40	63	212045500	
60	40	63	212046000	

Ø 6,35x77



Ø	I	L	cod.	€ cad/each
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13	60	83	212051300	
14	60	83	212051400	
15	60	83	212051500	
16	60	83	212051600	
17	60	83	212051700	
18	60	83	212051800	
19	60	83	212051900	
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33	60	83	212053300	
34	60	83	212053400	
35	60	83	212053500	
36	60	83	212053600	
37	60	83	212053700	
38	60	83	212053800	
39	60	83	212053900	
40	60	83	212054000	
41	60	83	212054100	
42	60	83	212054200	
43	60	83	212054300	
44	60	83	212054400	
45	60	83	212054500	
46	60	83	212054600	
47	60	83	212054700	
48	60	83	212054800	
49	60	83	212054900	
50	60	83	212055000	
55	60	83	212055500	
60	60	83	212056000	

Ø 6,35x102



Cod.

21210404

€

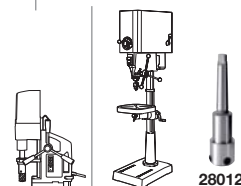
6 pcs
Ø 12-14-16-18-20-22
1 pcs

21210405

€

R≤1200 N/mm²

- Le frese a carotare, per le caratteristiche illustrate, permettono un taglio molto veloce ed economico nel ferro, acciaio da costruzione, ghisa, leghe leggere e materiali non ferrosi in genere. Speciale per piatti e lamiere in acciaio di grande spessore, tubi, putrelle, profilati etc.
- As shown, the core drills allow a very fast and economic cut in iron, structural steel, cast iron, light alloys and nonferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.
- Comme illustré, les fraises à carotter permettent un coupe très vite et économique dans le fer, l'acier de construction, la fonte, les alliages légers et les matériaux qui ne son pas ferreux. Spécial pour les plates en acier et la tôle, les tubes, poutrelles et profilés en acier.
- Las fresas para sondear, cómo ilustrado, permiten de cortar muy rápidamente y económicamente hierro, acero de construcción, fundición, aleaciones ligeras y materiales no ferrosos en general. Especial para platos de metal y planchas muy gruesos, tubos, vigas y perfilados.
- Wie illustriert erlauben die Kernbohrer einen schnellen und sparsamen Schnitt in Flacheisen, Baustahl, Gusseisen, Leichtmetall-Legierungen und Nichtferromaterialien. Geeignet für Flächen und Bleche aus Stahl, Röhren, Eisenträger und Profilstähle.



Confezione / Packaging



28012

Frese a carotare in metallo duro con attacco Weldon per macchine a supporto magnetico

Weldon shank carbide tip core drill for magnetic drilling machines / Fraises à carotter au carbure de tungstène avec Weldon queue pour machines à embase magnétique / Fresas con dientes de metal duro y mango Weldon para maquinas con base magnética

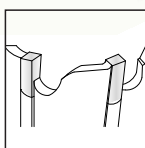
Metallo duro
Carbide

WELDON

Serie lunga / Long serie / Série longue
Serie larga / Lange Ausführung

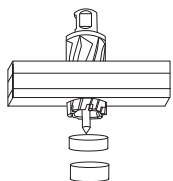
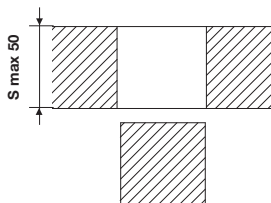
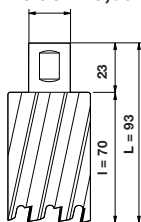
NEW

21216



Inserti in metallo duro
Carbide tips

Weldon 19,05

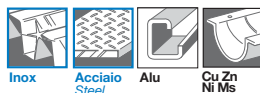


Acciaio accoppiato
Stacked steel

Applicazioni / Applications



R ≤ 1200 N/mm²



- 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. Recommandé pour la coupe très rapide, en l'acier inoxydable avec une grande efficacité, en acier réfractaire, inoxydable, résistant aux acides, HARDOX®, WELDOX® 400, tous les aciers en fonte générale, ... Particulièrement adapté pour couper les poutres et les rails. Recomendado para el corte muy rápido y con gran eficiencia en l'acero inoxidable, acero refractario, acero resistente a los ácidos, HARDOX®, WELDOX® 400, todos los aceros en hierro fundido en general, especialmente adecuados para el corte de las vigas.

- 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).

Ø	I	L	cod.	€ cad/each	Ø	I	L	cod.	€ cad/each
14	70	93	212161400		40	70	93	212164000	
15	70	93	212161500		41	70	93	212164100	
16	70	93	212161600		42	70	93	212164200	
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31	70	93	212163100		57	70	93	212165700	
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36	70	93	212163600		70	70	93	212167000	
37	70	93	212163700		75	70	93	212167500	
38	70	93	212163800		80	70	93	212168000	
39	70	93	212163900						



Cod. 21216001

Ø 7,1x112 mm
per frese Ø 14÷16 mm

€



Cod. 21216002

Ø 8,0x112 mm
per frese Ø 17÷80 mm

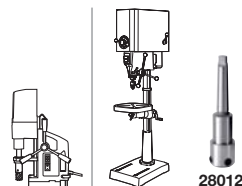
€



Cod. 21210308

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

€



28012

Confezione / Packaging



21208



21209



A richiesta
On demand

Frese a carotare HSS-CO con attacco Quick-IN 18 mm per macchine a supporto magnetico

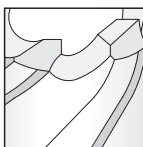
Quick-IN 18 mm shank HSS-CO core drill for magnetic drilling machines / HSS-CO fraises à carotter avec Quick-IN 18 mm queue pour machines à embase magnétique / Fresas HSS-CO con mango Quick-IN 18 mm para maquinas con base magnética

HSS-CO 5%

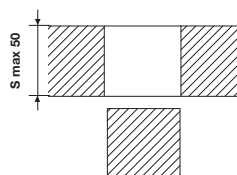
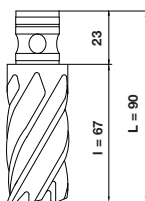
Quick-IN®

Serie lunga / Long serie / Série longue
Serie larga / Lange Ausführung

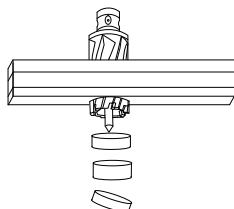
21211



Quick-IN 18



Acciaio accoppiato
Stacked steel



Ø	I	L	cod.	€ cad/each	Ø	I	L	cod.	€ cad/each
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13	67	90	2121101300		33	67	90	2121103300	
14	67	90	2121101400		34	67	90	2121103400	
15	67	90	2121101500		35	67	90	2121103500	
16	67	90	2121101600		36	67	90	2121103600	
17	67	90	2121101700		37	67	90	2121103700	
18	67	90	2121101800		38	67	90	2121103800	
19	67	90	2121101900		39	67	90	2121103900	
20	67	90	2121102000		40	67	90	2121104000	
21	67	90	2121102100		41	67	90	2121104100	
22	67	90	2121102200		42	67	90	2121104200	
23	67	90	2121102300		43	67	90	2121104300	
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25	67	90	2121102500		45	67	90	2121104500	
26	67	90	2121102600		46	67	90	2121104600	
27	67	90	2121102700		47	67	90	2121104700	
28	67	90	2121102800		48	67	90	2121104800	
29	67	90	2121102900		49	67	90	2121104900	
30	67	90	2121103000		50	67	90	2121105000	
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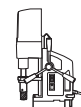
Cod. 28016002
Ø 6,35X102



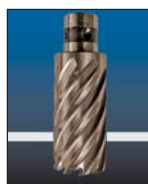
Cod. 21210309

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

€



Applicazioni / Applications

R_s ≤ 1200 N/mm²

- 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 piatti 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.
- Les fraises à carotter permettent une coupe rapide et économique dans l'acier inox, l'acier de construction, le fer, la fonte, les alliages légers et les métaux non ferreux. Spécial pour les plates en acier et la tôle, les tubes, les poutrelles et les profilés en acier.
- Las coronas permiten el corte rápido y económico en acero inoxidable, acero de construcción, fundición, aleaciones ligeras y materiales no ferrosos. Especial para platos de metal y chapas de gran espesor, tubos, vigas y perfilados.



Confezione / Packaging



Frese a carotare in metallo duro con attacco Quick-IN 18 mm per macchine a supporto magnetico

KRINO®

Quick-IN 18 mm shank carbide tip core drill for magnetic drilling machines / Fraises à carotter au carbure de tungstène avec Quick-IN 18 mm queue pour machines à embase magnétique / Fresas con dientes de metal duro y mango Quick-IN 18 mm para maquinas con base magnética

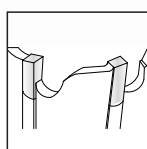
Metallo duro
Carbide

Quick-IN®

Serie lunga / Long serie / Série longue
Serie larga / Lange Ausführung

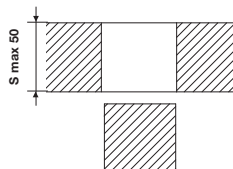
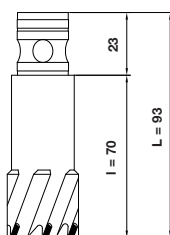
NEW

21212

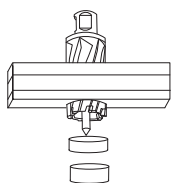


Inserti in metallo duro
Carbide tips

Quick-IN 18



Acciaio accoppiato
Stacked steel



Cod. 21210310

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

€



Applicazioni / Applications



R≤1200 N/mm²



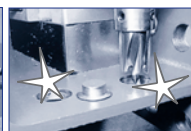
- Consigliate per il taglio molto veloce, economico e con grande rendimento in acciaio inox, acciai refrattari, acciai resistenti agli acidi, HARDOX®, WELDOX®400, tutti gli acciai in genere, ghisa,... Particolarmente adatto al taglio delle putrelle e delle rotaie. The core drills allow a very fast and economical cut in stainless steel, acid resistant steel, HARDOX®, WELDOX®400, steel and cast iron,... Suitable for cut iron beam and rails. Recommandé pour la coupe très rapide, en l'acier inoxydable avec une grande efficacité, en acier réfractaire, inoxydable, résistant aux acides, HARDOX®, WELDOX® 400, tous les aciers en fonte générale, ... Particulièrement adapté pour couper les poutres et les rails. Recomendado para el corte muy rápido y con gran eficiencia en el acero inoxidable, acero refractario, acero resistente a los ácidos, HARDOX®, WELDOX® 400, todos los aceros en hierro fundido en general, especialmente adecuados para el corte de las vigas.

- Nota: HARDOX® è un acciaio resistente all'abrasione; è identificato solitamente da un numero che ne indica la durezza (HBW).

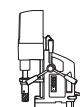
WELDOX® è un acciaio ad alta resistenza, identificato da un numero che ne fornisce la resistenza a snervamento (MPa).

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).



Confezione / Packaging



Macchine perforatrici a supporto elettromagnetico

Magnetic stand drilling machines / Perceuses à embase électromagnétique
Máquinas de cortar con base electromagnética / Magnetständerbohrmaschinen

28011100



14 Kg

28011100

€

Forza di coesione magnetica 7.350 N
Magnetic cohesion strength

Potenza assorbita 1.100 W
Absorbed power

Tensione in entrata 230 V
Input voltage

N. giri motore - 1ª velocità 780 min⁻¹
1st speed

N. giri motore - 2ª velocità -
2nd speed

Corsa utile 100 mm
Useful stroke

Rotazione DX
Rotation Right

Raffreddamento incorporato
Cooling incorporated

Capacità - Working range

Weldon 19,05 mm. 13÷35 mm

DIN 338: 1÷13 mm

Weldon 19,05 mm.
Quick - IN 18 mm.

Weldon 19,05 mm.

Quick - IN 18 mm.

1÷13

28011101



23 Kg

28011101

€

Forza di coesione magnetica 22.540 N
Magnetic cohesion strength

Potenza assorbita 1.850 W
Absorbed power

Tensione in entrata 230 V
Input voltage

N. giri motore - 1ª velocità 450 min⁻¹
1st speed

N. giri motore - 2ª velocità 750 min⁻¹
2nd speed

Corsa utile 135 mm
Useful stroke

Rotazione DX
Rotation Right

Raffreddamento incorporato
Cooling incorporated

Capacità - Working range

Weldon 19,05 mm. 18÷60 mm

DIN 338: 1÷16 mm

Weldon 19,05 mm.

Weldon 19,05 mm.
Quick - IN 18 mm.

Quick - IN 18 mm.

Art. 03121005 €

Flacone spray
per refrigerante 0,5lt

Cooling spray bottle 0,5lt



Art. 28020004 €

Olio da taglio
minerale intero 0,5 lt

Cutting oil 0,5 lt



Accessori per l'utilizzo delle frese a carotare

Accessories for HSS core drills / Accessoires pour fraises HSS à carotter
 Accesorios para coronas fresas HSS / Zubehör für HSS Kernbohrmaschinen



28012

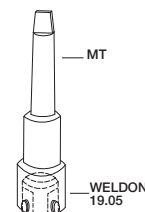


001
002

Mandrino senza lubrificazione interna

Holder without lubrication / Mandrin sans lubrification
 Portabroca sin lubricación / Bohrfutter ohne Schmierung

MT	L	Weldon 19,05mm		pcs	cod.	€ cad/each
2	160	12÷60	28011101	1	28012001	
3	175	12÷60	—	1	28012002	



28013



001
002



003
004

Mandrino con lubrificazione interna

Holder with lubrication / Mandrin avec lubrification
 Portabroca con lubricación / Bohrfutter mit Schmierung

MT	L	Weldon 19,05mm		pcs	cod.	€ cad/each
2	160	12÷60	28011101	1	28013001	
3	160	12÷60	—	1	28013002	
2	160	12÷60	28011101	1	28013003	
3	160	12÷60	—	1	28013004	

28014



001
002



003
004

Mandrino a serraggio rapido con lubrificazione

Automatic quick-in arbor with interior lubrication / Mandrin à serrage automatique avec lubrification
 Portabroca automático con lubricación / Automatisches Spannfutter mit Schmierung

MT	L	Weldon 19,05mm		pcs	cod.	€ cad/each
2	160	12÷60	28011101	1	28014001	
3	160	12÷60	—	1	28014002	
2	160	12÷60	28011101	1	28014003	
3	160	12÷60	—	1	28014004	

28015



001



002

Adattatori

Adaptors / Adaptateurs / Adaptadores / Adapter

	pcs	cod.	€ cad/each
WELDON - 18 Quick IN	1	28015001	
18 Quick IN - WELDON	1	28015002	

28016 21216



Espulsori

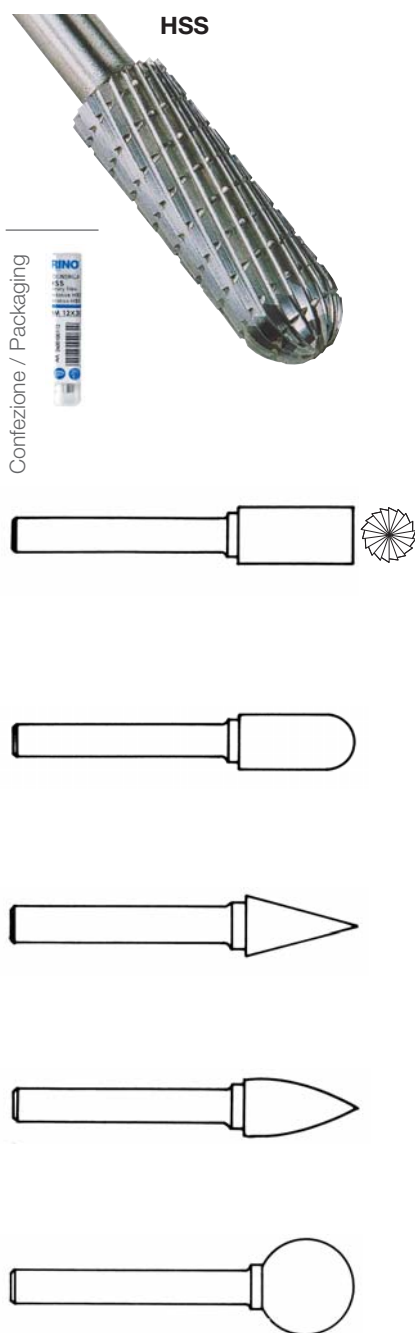
Ejector / Ejecteurs
 Expulsores / Abzieher



Art. 28016	pcs	cod.	€ cad/each
Ø 6,35 x 77 L = 63 mm	1	28016001	
Ø 6,35 x 102 L = 83 mm	1	28016002	
Ø 6,35 x 123 L = 83 mm	1	28016003	
Art. 21216	pcs	cod.	€ cad/each
Ø 7,1 x 112 L = 93 mm	1	21216001	
Ø 8,0 x 112 L = 93 mm	1	21216002	

Frese rotative in HSS

HSS rotary files / Fraises rotatives HSS / Fresas rotativas en HSS / HSS Fräserstifte



26001 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.

26003 Z3



- TAGLIO MEZZO DOLCE per acciai, ghisa. Vt 80÷220 m/min
- For cutting steel, cast iron. Cutting speed 80÷220 m/min



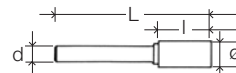
Acciaio
Steel



Alu



Cu Zn
Ni Ms



HRC ≈ 63

				26001 Z2	26003 Z3
Ø	/	L	d	cod. € cad/each	cod. € cad/each
6	20	60	6	2600100106	2600300106
8	30	70	6	2600100108	2600300108
10	30	70	6	2600100110	2600300110
12	30	70	6	2600100112	2600300112
15	30	70	6	2600100115	2600300115
6	20	60	6	2600100206	2600300206
8	30	70	6	2600100208	2600300208
10	30	70	6	2600100210	2600300210
12	30	70	6	2600100212	2600300212
15	30	70	6	2600100215	2600300215
6	20	60	6	2600100306	2600300306
8	30	70	6	2600100308	2600300308
10	30	70	6	2600100310	2600300310
12	30	70	6	2600100312	2600300312
15	30	70	6	2600100315	2600300315
6	20	60	6	2600100406	2600300406
8	30	70	6	2600100408	2600300408
10	30	70	6	2600100410	2600300410
12	30	70	6	2600100412	2600300412
15	30	70	6	2600100415	2600300415
6	5	50	6	2600100506	2600300506
8	7	52	6	2600100508	2600300508
10	9	54	6	2600100510	2600300510
12	10	55	6	2600100512	2600300512
15	14	59	6	2600100515	2600300515



Ø10 Z2 5 pcs
Art. 26008203
Ø10 Z3 5 pcs
Art. 26008201

€

€

€

€



ABS

Ø10 Z2+Z3 10 pcs
Tutte le forme -
All the shapes
Art. 26008401

€

€

Ø12 Z2+Z3 10 pcs
Tutte le forme -
All the shapes
Art. 26008402

€



ABS

Ø10 Z3 5 pcs
Tutte le forme -
All the shapes
Art. 26008404

€

€

Ø12 Z3 5 pcs
Tutte le forme -
All the shapes
Art. 26008405

€



Art. 26008501 50 pcs
Z2+Z3: Ø 6-8-10-12-15
Tutte le forme - All the shapes

€

Frese rotative HSS rivestite al TiAIN

HSS TiAIN rotary files / Fraises rotatives HSS revêtues au TiAIN

Fresas rotativas HSS con recubrimiento de TiAIN - HSS Fräsestifte TiAIN-beschichtet



HSS + TiAIN



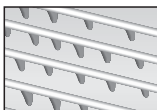
26031 Z2



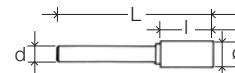
- TAGLIO BASTARDO per leghe leggere, rame, ottone, bronzo, acciaio dolce.
Velocità consigliata: 220÷250 m/min.

- For cutting light alloys, copper, brass, bronze, mild steel.
Cutting speed: 220÷250 m/min.

26032 Z3



- TAGLIO MEZZO DOLCE per acciai, ghisa. Vt 80÷220 m/min
For cutting steel, cast iron. Cutting speed 80÷220 m/min

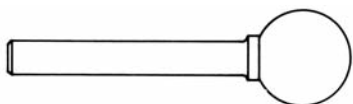
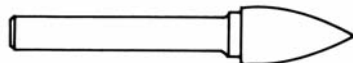
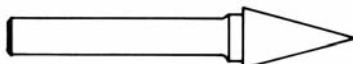
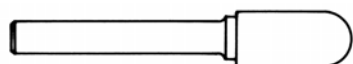


HV 0,05 ~ 3300

26031 Z2

26032 Z3

Ø	/	L	d	cod.	€ cad/each	cod.	€ cad/each
6	20	60	6	2603100106		2603200106	
8	30	70	6	2603100108		2603200108	
10	30	70	6	2603100110		2603200110	
12	30	70	6	2603100112		2603200112	
15	30	70	6	2603100115		2603200115	
6	20	60	6	2603100206		2603200206	
8	30	70	6	2603100208		2603200208	
10	30	70	6	2603100210		2603200210	
12	30	70	6	2603100212		2603200212	
15	30	70	6	2603100215		2603200215	
6	20	60	6	2603100306		2603200306	
8	30	70	6	2603100308		2603200308	
10	30	70	6	2603100310		2603200310	
12	30	70	6	2603100312		2603200312	
15	30	70	6	2603100315		2603200315	
6	20	60	6	2603100406		2603200406	
8	30	70	6	2603100408		2603200408	
10	30	70	6	2603100410		2603200410	
12	30	70	6	2603100412		2603200412	
15	30	70	6	2603100415		2603200415	
6	5	50	6	2603100506		2603200506	
8	7	52	6	2603100508		2603200508	
10	9	54	6	2603100510		2603200510	
12	10	55	6	2603100512		2603200512	
15	14	59	6	2603100515		2603200515	



Ø10 Z2 5 pcs
Art. 26035203
Ø10 Z3 5 pcs
Art. 26035201

€

€

Ø12 Z2 5 pcs
Art. 26035204
Ø12 Z3 5 pcs
Art. 26035200

€

€



ABS

Ø10 Z2+Z3 10 pcs
Tutte le forme -
All the shapes
Art. 26035401

€

Ø12 Z2+Z3 10 pcs
Tutte le forme -
All the shapes
Art. 26035402

€



ABS

Ø10 Z3 5 pcs
Tutte le forme -
All the shapes
Art. 26035404

€

Ø12 Z3 5 pcs
Tutte le forme -
All the shapes
Art. 26035405

€



Art. 26035501 50 pcs
Z2+Z3: Ø 6-8-10-12-15
Tutte le forme - All the shapes

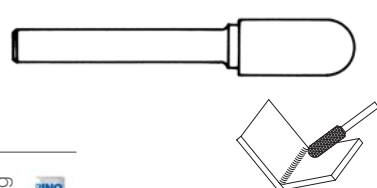
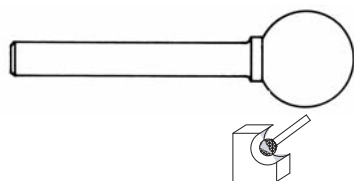
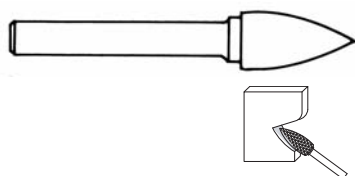
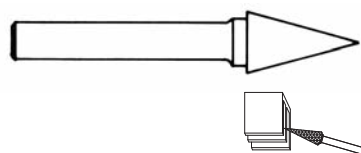
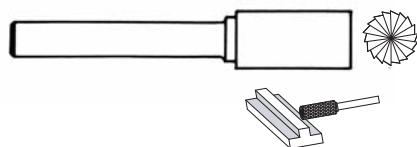
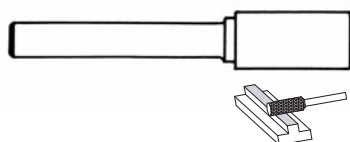
€

Frese rotative in metallo duro

Carbide rotary files - Fraises rotatives carbure

Fresas rotativas de metal duro - Hartmetall Fräserstifte

Metallo duro K20 / Solid carbide K20

Grana fine / Fine grain
Utilizzo universale / Universal usesConfezione /
Packaging

Applicazioni / Applications


NEW

26015 HM3



- TAGLIO STANDARD per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti.
Velocità consigliata: 300÷400 m/min.

- Standard cut in low and high tensile steel, welded points, metals
Cutting speed: 300÷400 m/min.

26020 HM4

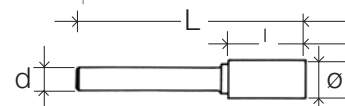


- TAGLIO INCROCIATO per acciaio trattato, acciaio inox, materiali metallici in genere. Vibrazioni ridotte, buona finitura superficiale, ottimi rendimenti.
Velocità consigliata: 300÷400 m/min.

- Diamond cut: finish work in high alloy steel, stainless steel, metals, less vibrations, high performances. Cutting speed: 300÷400 m/min.

				26015 HM3		26020 HM4	
Ø	I	L	d	cod.	€ cad/each	cod.	€ cad/each
* 3	16	38	3	2601500103		2602000103	
4	14	50	6	2601500104		2602000104	
6	18	50	6	2601500106		2602000106	
8	18	63	6	2601500108		2602000108	
10	20	65	6	2601500110		2602000110	
12	25	70	6	2601500112		2602000112	
16	25	70	6	2601500116		2602000116	
* 3	16	38	3	2601500203		2602000203	
4	14	50	6	2601500204		2602000204	
6	18	50	6	2601500206		2602000206	
8	18	63	6	2601500208		2602000208	
10	20	65	6	2601500210		2602000210	
12	25	70	6	2601500212		2602000212	
16	25	70	6	2601500216		2602000216	
* 3	16	38	3	2601500303		2602000303	
4	14	50	6	2601500304		2602000304	
6	18	50	6	2601500306		2602000306	
8	18	63	6	2601500308		2602000308	
10	20	65	6	2601500310		2602000310	
12	25	70	6	2601500312		2602000312	
16	25	70	6	2601500316		2602000316	
* 3	16	38	3	2601500403		2602000403	
4	14	50	6	2601500404		2602000404	
6	18	50	6	2601500406		2602000406	
8	18	63	6	2601500408		2602000408	
10	20	65	6	2601500410		2602000410	
12	25	70	6	2601500412		2602000412	
16	25	70	6	2601500416		2602000416	
* 3	3	38	3	2601500503		2602000503	
4	4	50	6	2601500504		2602000504	
6	5	50	6	2601500506		2602000506	
8	7	63	6	2601500508		2602000508	
10	9	65	6	2601500510		2602000510	
12	10	70	6	2601500512		2602000512	
16	14	70	6	2601500516		2602000516	
* 3	16	38	3	2601500603		2602000603	
4	14	50	6	2601500604		2602000604	
6	18	50	6	2601500606		2602000606	
8	18	63	6	2601500608		2602000608	
10	20	65	6	2601500610		2602000610	
12	25	70	6	2601500612		2602000612	
16	25	70	6	2601500616		2602000616	

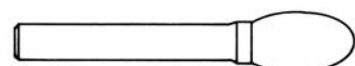
* Microfrese / Micro rotary files



Frese rotative in metallo duro

Carbide rotary files - Fraises rotatives carbure

Fresas rotativas de metal duro - Hartmetall Fräserstifte



				26015 HM3		26020 HM4	
Ø	/	L	d	cod.	€ cad/each	cod.	€ cad/each
* 3	16	38	3	2601500703		2602000703	
4	16	50	6	2601500704		2602000704	
6	18	50	6	2601500706		2602000706	
8	18	63	6	2601500708		2602000708	
10	20	65	6	2601500710		2602000710	
12	25	70	6	2601500712		2602000712	
16	25	70	6	2601500716		2602000716	
* 3	16	38	3	2601500803		2602000803	
4	14	50	6	2601500804		2602000804	
6	18	50	6	2601500806		2602000806	
8	18	63	6	2601500808		2602000808	
10	20	65	6	2601500810		2602000810	
12	25	70	6	2601500812		2602000812	
16	25	70	6	2601500816		2602000816	
* 3	6	38	3	2601500903		2602000903	
4	6	50	6	2601500904		2602000904	
6	10	50	6	2601500906		2602000906	
8	13	58	6	2601500908		2602000908	
10	16	61	6	2601500910		2602000910	
12	20	65	6	2601500912		2602000912	
16	25	70	6	2601500916		2602000916	



ABS



ABS

Ø10 HM3 5 pcs
Art. 26030206 €

Ø10 HM4 5 pcs
Art. 26030203 €

Ø12 HM3 5 pcs
Art. 26030207 €

Ø12 HM4 5 pcs
Art. 26030202 €

Ø10 HM3+HM4 10 pcs
Tutte le forme - All the shapes
Art. 26030401 €

Ø12 HM3+HM4 10 pcs
Tutte le forme - All the shapes
Art. 26030402 €

Ø8 HM4 5 pcs
Ø12 HM4 5 pcs
Art. 26030403 €

Ø10 HM4 5 pcs
Art. 26030404 €

Ø12 HM4 5 pcs
Art. 26030405 €



Art. 26030502 45 pcs €
Ø 6-8-10-12-16 HM4
Tutte le forme - All the shapes

Frese rotative in metallo duro rivestite al TiAlN

Carbide rotary files TiAlN-coated / Fraises rotatives au carbure revêtues au TiAlN

Fresas rotativas de metal duro con recubrimiento de TiAlN - Hartmetall Fräserstifte TiAlN-beschichtet

K20 + TiAlN / Carbide K20 + TiAlN

Grana fine / Fine grain
Utilizzo universale / Universal uses



26033 HM3



- 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.

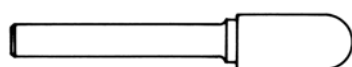
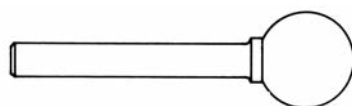
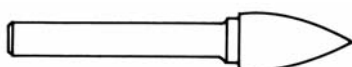
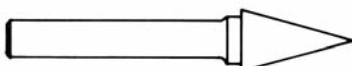
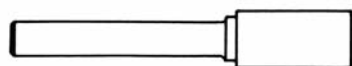
- Standard cut in low and high tensile steel, welded points, metals
Cutting speed: 450÷600 m/min.

26034 HM4



- 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.



				26033 HM3		26034 HM4	
Ø	I	L	d	cod.	€ cad/each	cod.	€ cad/each
* 3	16	38	3	2603300103		2603400103	
4	14	50	6	2603300104		2603400104	
6	18	50	6	2603300106		2603400106	
8	18	63	6	2603300108		2603400108	
10	20	65	6	2603300110		2603400110	
12	25	70	6	2603300112		2603400112	
16	25	70	6	2603300116		2603400116	
* 3	16	38	3	2603300203		2603400203	
4	14	50	6	2603300204		2603400204	
6	18	50	6	2603300206		2603400206	
8	18	63	6	2603300208		2603400208	
10	20	65	6	2603300210		2603400210	
12	25	70	6	2603300212		2603400212	
16	25	70	6	2603300216		2603400216	
* 3	16	38	3	2603300303		2603400303	
4	14	50	6	2603300304		2603400304	
6	18	50	6	2603300306		2603400306	
8	18	63	6	2603300308		2603400308	
10	20	65	6	2603300310		2603400310	
12	25	70	6	2603300312		2603400312	
16	25	70	6	2603300316		2603400316	
* 3	16	38	3	2603300403		2603400403	
4	14	50	6	2603300404		2603400404	
6	18	50	6	2603300406		2603400406	
8	18	63	6	2603300408		2603400408	
10	20	65	6	2603300410		2603400410	
12	25	70	6	2603300412		2603400412	
16	25	70	6	2603300416		2603400416	
* 3	3	38	3	2603300503		2603400503	
4	4	50	6	2603300504		2603400504	
6	5	50	6	2603300506		2603400506	
8	7	63	6	2603300508		2603400508	
10	9	65	6	2603300510		2603400510	
12	10	70	6	2603300512		2603400512	
16	14	70	6	2603300516		2603400516	
* 3	16	38	3	2603300603		2603400603	
4	14	50	6	2603300604		2603400604	
6	18	50	6	2603300606		2603400606	
8	18	63	6	2603300608		2603400608	
10	20	65	6	2603300610		2603400610	
12	25	70	6	2603300612		2603400612	
16	25	70	6	2603300616		2603400616	

Confezione /
Packaging

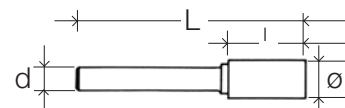


Applicazioni / Applications



NEW

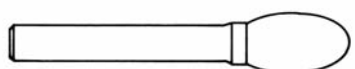
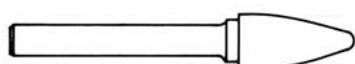
* Microfrese / Micro rotary files



Frese rotative in metallo duro rivestite al TiAlN

Carbide rotary files TiAlN-coated / Fraises rotatives au carbure revêtues au TiAlN

Fresas rotativas de metal duro con recubrimiento de TiAlN - Hartmetall Fräserstifte TiAlN-beschichtet



				26033 HM3		26034 HM4	
Ø	/	L	d	cod.	€ cad/each	cod.	€ cad/each
* 3	16	38	3	2603300703		2603400703	
4	16	50	6	2603300704		2603400704	
6	18	50	6	2603300706		2603400706	
8	18	63	6	2603300708		2603400708	
10	20	65	6	2603300710		2603400710	
12	25	70	6	2603300712		2603400712	
16	25	70	6	2603300716		2603400716	
* 3	16	38	3	2603300803		2603400803	
4	14	50	6	2603300804		2603400804	
6	18	50	6	2603300806		2603400806	
8	18	63	6	2603300808		2603400808	
10	20	65	6	2603300810		2603400810	
12	25	70	6	2603300812		2603400812	
16	25	70	6	2603300816		2603400816	
* 3	6	38	3	2603300903		2603400903	
4	6	50	6	2603300904		2603400904	
6	10	50	6	2603300906		2603400906	
8	13	58	6	2603300908		2603400908	
10	16	61	6	2603300910		2603400910	
12	20	65	6	2603300912		2603400912	
16	25	70	6	2603300916		2603400916	



ABS



ABS

Ø10 HM3 5 pcs
Art. 26030210 €

Ø10 HM4 5 pcs
Art. 26030211 €

Ø12 HM3 5 pcs
Art. 26030212 €

Ø12 HM4 5 pcs
Art. 26030213 €

Ø10 HM3+HM4 10 pcs
Tutte le forme - All the shapes
Art. 26030410 €

Ø12 HM3+HM4 10 pcs
Tutte le forme - All the shapes
Art. 26030411 €

Ø10 HM4 5 pcs
Art. 26030412 €

Ø12 HM4 5 pcs
Art. 26030413 €



Art. 26030504 45 pcs €
Ø 6-8-10-12-16 HM4
Tutte le forme - All the shapes

Seghe a tazza bimetalliche HSS a dentatura variabile

HSS bimetal hole saws / Scies tréplans bimetal HSS

Coronas perforadoras bimetalicas HSS / HSS-bimetal Lochsägen

HSS M3/1



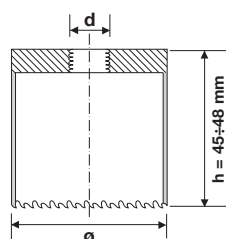
21060



Variabile - Variable Z 4-6



BIM. - HSS M3/1



Art. 21066

Versione neutra
Generic versionPersonalizza con il tuo logo
Your private label

Confezione / Packaging



21060



21062

Applicazioni / Applications

Acciaio
Steel

Metals



Plastics



Metals



Metals



Metals



Metals



Metals



Metals



Metals



Metals



Metals



Metals



Metals

- 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, max. profondità di foratura 5 mm.
- 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...Max. cutting depth : 13/64
- Scies cloches bimetal-HSS à denture progressive pour l'emploi professionnel. Pour percer les métaux, fer, fonte, acier inox, bois, plastique. Profondeur de coupe: 5 mm
- Coronas perforadoras bimetalicas HSS con diente variable y ángulo positivo para taladrar acero, latón, bronce, aluminio, madera, plástico etc. Profundidad de corte: 5 mm.
- HSS Bi-Metal-Lochsägen mit vario-verzahnung für schnellen Bohrfortschritt in Stahl, Guss, Kupfer, Bronze, Aluminium, Kunststoffe, Gipskarton, Holz.

Alberi per seghe a tazza bimetale (intercambiabili con qualsiasi altra marca)

Arbors for bimetal hole saws / Arbres de montage pour scies trépan bimetale

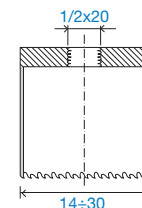
Husillos para coronas bimetálicas / Aufnahmeschäfte



ALBERI PER SEGHE BIMETAL Ø 14÷30 mm - Fit hole saws Ø 14÷30

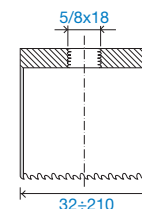
210705514	210705515	210705519	210705518	210705519 SDS	Per seghe Fit hole saws	d mm	cod.	€ cad/each
					Ø 14 ÷ 30	Ø 6,35	210705514	
					Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515	
					Ø 14 ÷ 30	HEX 8,5	210705519	
					Ø 14 ÷ 30	HEX 11	210705518	
					Ø 14 ÷ 30	SDS PLUS	210705519SDS	

SDS-PLUS



ALBERI PER SEGHE BIMETAL Ø 32÷210 mm - Fit hole saws Ø 32÷210

210705520	210705521	210705546	210705547	210705548	Per seghe Fit hole saws	d mm	cod.	€ cad/each
					Ø 32 ÷ 210	HEX 11	210705520	
					Ø 32 ÷ 210	HEX 6,35 Q.C.	210705521	
					Ø 32 ÷ 210	HEX 8,5	210705546	
					Ø 32 ÷ 210	HEX 8,5	210705547	
					Ø 32 ÷ 210	HEX 8,5 Q.C.	210705548	
					Ø 32 ÷ 210	SDS PLUS	210705546SDS	
					Ø 32 ÷ 210	SDS PLUS	210705549SDS	
					Ø 32 ÷ 210	HEX 11	210705545	
					Ø 32 ÷ 210	HEX 16	210705573	



210705546 SDS

210705549 SDS

210705545

210705573

SDS-PLUS

SDS-PLUS

21070200	21070201	21070300	21070302	Punta pilota Pilot drill	Per alberi Fit arbors	cod.	€ cad/each
				Ø 6,35 x 105	5514-5520 5545-5573-5518	21070200	
				Ø 6,35 x 80	5515-5519-5519SDS 5521-5546-5546SDS 5547-5548-5549SDS	21070201	
				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
				Prolunga - L = 300 mm 12" extension - to be used with arbors 5545-5520			21070302

Confezione / Packaging



Assortimenti seghe a tazza bimetalliche HSS in valigette di plastica

HSS Bi-metal hole saws kits in plastic cases / Assortiments de scies trépan HSS bimetal en coffret plastique

Juegos de coronas perforadoras bimetalica HSS en estuche de plastico / HSS Lochsägen Sortimente in Plastikköfferchen

Variabile - Variable Z 4-6



BIM. - HSS M3/1

Kit Eletttricisti - *Electrician's kit*

Cod.	Composizione Description	
21080201K Ø 22÷64 6 pcs €	Ø 22-29-35 44-51-64	5519 - 5546 1
21080202K Ø 16÷51 (METRIC) 6 pcs €	Ø 16-20-25 32-40-51	5519 - 5546 1

Cod.	Composizione Description	
21080209K Ø 22÷68 7 pcs €	Ø 22-29-35-38 44-51-68	5519 - 5546
21080207K Ø 16÷60 (Pg 9÷48) 13 pcs €	Ø 16-19-20-21 22-25-29-32 38-48-51-54-60	5519 - 5546 1

Kit per idraulici- *Plumber's kit*

Cod.	Composizione Description	
21080204K Ø 19÷57 6 pcs €	Ø 19-22-29 38-44-57	5519 - 5546 1

Kit per installatori - *Journeyman's kit*

Cod.	Composizione Description	
21080205K Ø 19÷64 9 pcs €	Ø 19-22-29-35 38-44-51-57 64	5519 - 5546 1

Cod.	Composizione Description	
21080211K Ø 20÷64 11 pcs €	Ø 20-22-25-30 32-35-40-44 51-60-64	5519 - 5546

Kit per installatori - *Journeyman's kit*Kit industriale - *Industrial kit*

Cod.	Composizione Description	
21080212K Ø 19÷83 11 pcs €	Ø 19-22-25-30 35-40-51-60 64-76-83	5519 - 5546

Cod.	Composizione Description	
21080206K Ø 19÷114 15 pcs €	Ø 19-22-29-35-38 44-51-57-64-76 83-92-95-105-114	5519 - 5546

Espositore seghe a tazza bimetalliche HSS

Bimetal hole saws display - Display de scies trépan bimetal
Expositor de coronas bimetalicas - Lochsägen Sortiment



21080504K



23x18x50 cm

Cod.

21080504K
49 pcs - Ø 16÷102

€

Composizione
Description

Ø Seg/Hole saw	pcs
16	2
19	2
20	2
22	2
25	2
30	2
32	2
35	2
38	2
40	2
48	2
51	2
57	2
60	2
70	2
83	2
102	2

5519 14÷30	4
5546 32÷210	6

21070201	5
----------	---

21080503K



Cod.

21080503K
24 pcs - Ø 16÷83

€

Composizione
Description

Ø Seg/Hole saw	pcs
16	1
19	1
20	1
22	1
25	1
27	1
29	1
30	1
32	1
35	1
38	1
40	1
44	1
51	1
54	1
60	1
64	1
70	1
76	1
83	1

5519 14÷30	2
5546 32÷210	2

Seghe a tazza bimetalliche al Cobalto 8% AISI M42 a dentatura variabile

HSS-CO 8% AISI M42 bimetal hole saws with variable teeth / Scies tréplans bimétalliques HSS-CO 8% AISI M42 avec denture variable

Coronas perforadoras bimetálicas HSS-CO 8% AISI M42 con dentadura variable / HSS-CO 8% AISI M42 Bimetall Lochsägen mit veränderbarer Zahnung

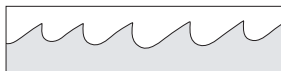
HSS-CO8% M42



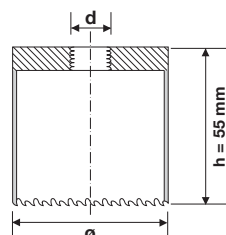
21090



Variabile: nuovo disegno dei denti più performanti Z 4-6
Variable: new upgrade teeth design Z 4-6



BIM. - HSS-CO 8% AISI M42



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

Confezione / Packaging



21090



21092

Applicazioni / Applications



Inox



Acciaio



Metals



Plastics



Aluminum



Wood



Hardwood

Universale/multipurpose



21100



377

- Seghe a tazza di altissima qualità, con taglienti 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.
- Scies tréplans de haute qualité avec tranchants au HSS-CO 8% pour les travaux les plus durs; coupe professionnel et profond dans l'acier **inoxydable**, aciers durs, fonte, aluminium, bronze, laiton, bois dur et produits dérivés, résines synthétiques, laminés plastiques, caoutchouc dur, etc.
- Coronas perforadoras de calidad con cortes de HSS-CO 8% para los trabajos más gravosos; corte profesional y profundo en acero **inoxidable**, aceros duros, fundición, aluminio, bronce, latón, madera dura y productos derivados, resinas sintéticas, laminados plásticos, goma dura, etc.
- Qualitativen Lochsägen mit Schneiden aus HSS-CO 8% für die härtesten Berufe. Beruflich Tiefschnitt im **rostfreien** Stahl, Hartstähle, Gusseisen, Aluminium, Bronze, Messing, Hartholz und Holzprodukte, Kunstharze, Kautschuk, etc.

Alberi per seghe a tazza bimetale HSS-CO 8%

Arbors for HSS-CO 8% bimetale hole saws / Arbres de montage pour scies trépan bimetale HSS-CO 8%

Husillos para coronas bimetálicas HSS-CO 8% / Aufnahmeschäfte für HSS-CO 8% Lochsägen



ALBERI PER SEGHE BIMETAL Ø 14÷30 mm - Fit hole saws Ø 14÷30

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

SDS-PLUS

ALBERI PER SEGHE BIMETAL Ø 32÷152 mm - Fit hole saws Ø 32÷152

210705520B	210705521B	210705546B	210705547B	210705548B	Per seghe Fit hole saws	d mm	cod.	€ cad/each
					Ø 32 ÷ 152	HEX 11	210705520B	
					Ø 32 ÷ 152	HEX 6,35 Q.C.	210705521B	
					Ø 32 ÷ 152	HEX 8,5	210705546B	
					Ø 32 ÷ 152	HEX 8,5	210705547B	
					Ø 32 ÷ 152	HEX 8,5 Q.C.	210705548B	
					Ø 32 ÷ 152	SDS PLUS	210705546SDSB	
					Ø 32 ÷ 152	SDS PLUS	210705549SDSB	
					Ø 32 ÷ 152	HEX 11	210705545B	
					Ø 32 ÷ 152	HEX 16	210705573B	

210705546 SDSB	210705549 SDSB	210705545B	210705573B

SDS-PLUS **SDS-PLUS**

21070203	21070202	21070300	21070302	Punta pilota Pilot drill	Per alberi Fit arbors	cod.	€ cad/each
				Ø 6,35 x 115	5514B-5520B 5545B-5573B-5518B	21070203	
				Ø 6,35 x 90	5515B-5519B-5519SDSB 5521B-5546B-5546SDSB 5547B-5548B-5549SDSB	21070202	
				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	
				Prolunga - L = 300 mm 12" extension - to be used with arbors 5545B-5520B		21070302	

Confezione / Packaging



Assortimenti seghe a tazza bimetalliche HSS-CO 8%

HSS-CO 8% Bi-metal hole saws kits / Assortiments de scies tréfans HSS-CO 8% bimetal
Juegos de coronas perforadoras bimetalica HSS-CO 8% / HSS-CO 8% Lochsägen Sortimente

Kit Eletttricisti - Electrician's kit



Cod.	Composizione Description
21013201K Ø 22÷64 6 pcs €	 Ø 22-29-35 5519B - 5546B 44-51-64  1
21013202K Ø 16÷51 (METRIC) 6 pcs €	 Ø 16-20-25 5519B - 5546B 32-40-51  1

Cod.	Composizione Description
21013209K Ø 22÷68 7 pcs €	 Ø 22-29-35-38 5519B - 5546B 44-51-68  1
21013207K Ø 16÷60 (Pg 9÷48) 13 pcs €	 Ø 16-19-20-21 5519B - 5546B 22-25-29-32  1 38-48-51-54-60

Kit per idraulici- Plumber's kit



Cod.	Composizione Description
21013204K Ø 19÷57 6 pcs €	 Ø 19-22-29 5519B - 5546B 38-44-57  1

Kit per installatori - Journeyman's kit



Cod.	Composizione Description
21013205K Ø 19÷64 9 pcs €	 Ø 19-22-29-35 5519B - 5546B 38-44-51-57  1 64

Cod.	Composizione Description
21013215K Ø 19÷76 11 pcs €	 Ø 19-22-25-29 5519B - 5546B 35-38-44-51  1 57-64-76
21013216K Ø 16÷76 12 pcs €	 Ø 16-19-22-25 5519B - 5546B 29-32-35-38  1 44-51-64-76
21013211K Ø 20÷64 11 pcs €	 Ø 20-22-25-30 5519B - 5546B 32-35-40-44  1 51-60-64
21013212K Ø 19÷83 11 pcs €	 Ø 19-22-25-30 5519B - 5546B 35-40-51-60  1 64-76-83

Kit industriale - Industrial kit



Cod.	Composizione Description
21013206K Ø 19÷114 15 pcs €	 Ø 19-22-29-35-38 5519B - 5546B 44-51-57-64-76  1 83-92-95-105-114

Espositori - Display



23x18x50 cm

Cod.	Composizione Description	pcs
21013504K Ø 16÷102 49 pcs €	 Ø 16-19-20-22-25-30 2x 32-35-38-40-48-51-57 60-70-83-102	
	 5519B 14÷30 4x 5546B 32÷152 6x	
	 21070202 5x	



Cod.	Composizione Description	pcs
21013503K Ø 16÷83 24 pcs €	 Ø 16-19-20-22-25-27 1x 29-30-32-35-38-40-44 51-54-60-64-70-76-83	
	 5519B 14÷30 2x 5546B 32÷152 2x	

Seghe a tazza bimetalliche HSS a dentatura variabile ed albero fisso

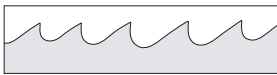
KRINO®

One piece HSS bimetal hole saws with fixed arbor / Scies trépan bimetall HSS avec arbres de montage fixé

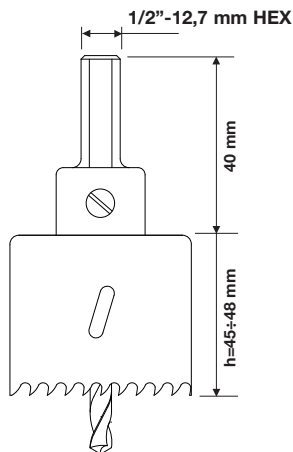
Coronas perforadoras bimetálicas HSS con mango incorporado / HSS-bimetall lochsägen mit festeingebaut Aufnahmeschäfte

NEW
21061


Variabile - Variable Z 4-6



BIM. - HSS M3/1


 Integrale
one-piece

Confezione / Packaging



Ø mm	Ø Pollici Inch	cod.	€ cad/each	HSS M3/1
16	5/8	2106101600		
19	3/4	2106101900		
21	13/16	2106102100		
22	7/8	2106102200		
24	15/16	2106102400		
25	1"	2106102500		
27	1,1/16	2106102700		
29	1,1/8	2106102900		
30	1,3/16	2106103000		
32	1,1/4	2106103200		
33	1,5/16	2106103300		
35	1,3/8	2106103500		
38	1,1/2	2106103800		
40	1,9/16	2106104000		
41	1,5/8	2106104100		
44	1,3/4	2106104400		
48	1,7/8	2106104800		
51	2"	2106105100		
54	2,1/8	2106105400		
57	2,1/4	2106105700		
60	2,3/8	2106106000		
64	2,1/2	2106106400		
67	2,5/8	2106106700		
70	2,3/4	2106107000		
76	3"	2106107600		
79	3,1/8	2106107900		
83	3,1/4	2106108300		
89	3,1/2	2106108900		
92	3,5/8	2106109200		
95	3,3/4	2106109500		
102	4"	2106110200		

 Punta pilota
Pilot drill

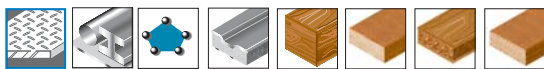

Ø 6,35 x 80

cod.

21070201

 €
cad/each

Applicazioni / Applications



- 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, max. profondità di foratura 5 mm.
- 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...Max. cutting depth: 13/64
- Scies cloches bimetal-HSS à denture progressive pour l'emploi professionnel. Pour percer les métaux, fer, fonte, acier inox, bois, plastique. Profondeur de coupe: 5 mm
- Coronas perforadoras bimetálicas HSS con diente variable y angulo positivo para taladrar acero, latón, bronce, aluminio, madera, plástico etc. Profundidad de corte: 5 mm.
- HSS Bi-Metall-Lochsägen mit vario-verzahnung für schnellen Bohrfortschritt in Stahl, Guss, Kupfer, Bronze, Aluminium, Kunststoffe, Gipskarton, Holz.

Punzoni standard con cuscinetto

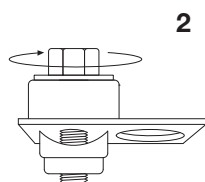
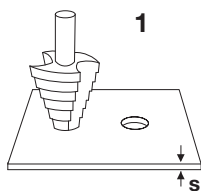
Standard ball bearing punches / Emporte pieces standard

Punzonador standard / Schraub-locher

26070



Ø	Pg / M	S	cod.	€ cad/each	Ø	Pg / M	S	cod.	€ cad/each
10		1,5	2607001000		38		2	2607003800	
11		1,5	2607001100		39		2	2607003900	
12		1,5	2607001200		40		2	2607004000	
12,5	Pg 7/M 12x1,5	1,5	2607001250		40,5	M 40x1,5	2	2607004050	
13		1,5	2607001300		41		2	2607004100	
14		1,5	2607001400		42		2	2607004200	
15		1,5	2607001500		43		2	2607004300	
15,2	Pg 9	1,5	2607001520		44		2	2607004400	
16		2	2607001600		45		2	2607004500	
16,5	M 16x1,5	2	2607001650		46		2	2607004600	
17		2	2607001700		47	Pg 36	2	2607004700	
18		2	2607001800		48		2	2607004800	
18,6	Pg 11	2	2607001860		50		2	2607005000	
19		2	2607001900		50,5	M 50x1,5	3	2607005050	
20		2	2607002000		51		3	2607005100	
20,5	Pg 13,5/M 20x1,5	2	2607002050		52		3	2607005200	
21		2	2607002100		52,5		3	2607005250	
22		2	2607002200		54	Pg 42	3	2607005400	
22,5	Pg 16	2	2607002250		55		3	2607005500	
23		2	2607002300		57		3	2607005700	
24		2	2607002400		58		3	2607005800	
25		2	2607002500		59		3	2607005900	
25,5	M 25x1,5	2	2607002550		60	Pg 48	3	2607006000	
26		2	2607002600		60,5		3	2607006050	
27		2	2607002700		61		3	2607006100	
28		2	2607002800		62		3	2607006200	
28,3	Pg 21	2	2607002830		63		3	2607006300	
29		2	2607002900		63,5	M 63x1,5	3	2607006350	
30		2	2607003000		64		3	2607006400	
30,5		2	2607003050		65		3	2607006500	
32		2	2607003200		70		3,5	2607007000	
32,5	M 32x1,5	2	2607003250		73		3,5	2607007300	
33		2	2607003300		75		3,5	2607007500	
34		2	2607003400		80		3,5	2607008000	
35		2	2607003500		85		3,5	2607008500	
36		2	2607003600		89		3,5	2607008900	
37	Pg 29	2	2607003700		102		3,5	2607010200	

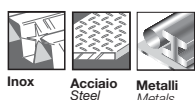


Art. 26084

Tiranti per pompa idraulica 2607514-2607515
draw stud for hydraulic pump 2607514-2607515



M	per punzoni for punches	cod.	€ cad/each
8x1	Ø14÷15,2	2608408x1	
10x1	Ø16÷38	2608410x1	
12x1,5	Ø39÷50	2608412x15	
16x1,5	Ø52÷62	2608416x15	
20x1,5	Ø63÷85	2608420x15	
24x1,5	Ø89÷115	2608424x15	



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
Pour trous précis dans le tole en acier, acie inoxydable, tous le métaux, plastique
Para agujeros precisos en chapa de acero inoxidable, todos los metales, plastico

Assortimenti punzoni - Set of ball bearing punches

Utilizzo con chiave
To be used with wrench 



26085100 €

Pg 7 - Pg 29
Ø 12,5-15,2-18,6-20,5
22,5-28,3-37

26085101 €

M 12x1,5 - M 40x1,5
Ø 12,5-16,5-20,5-25,5
32,5-40,5



26085110 €

Pg 7 - Pg 48
Ø 12,5-15,2-18,6-20,5
22,5-28,3-37-47-54-60
 Ø 7÷21 mm.

26085111 €

M 12x1,5 - M 63x1,5
Ø 12,5-16,5-20,5-25,5
32,5-40,5-50,5-63,5

Utilizzo con pompa idraulica
To be used with hydraulic pump 

26085102 €

Pg 9 - Pg 29
Ø 15,2-18,6-20,5
22,5-28,3-37

26085103 €

M 16x1,5 - M 40x1,5
Ø 16,5-20,5-25,5
32,5-40,5

26085112 €

Pg 9 - Pg 48
Ø 15,2-18,6-20,5-22,5
28,3-37-47-54-60

26085113 €

M 16x1,5 - M 63x1,5
Ø 16,5-20,5-25,5-32,5
40,5-50,5-63,5

Assortimenti punzoni con pompa idraulica - Set of ball bearing punches with hydraulic pump



26085120 €

Pg 9 - Pg 29
Ø 15,2-18,6-20,5
22,5-28,3-37
Pompa/Pump Art. 2607514

26085121 €

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

2607514

€



Pompa idraulica manuale a testa orientabile
Hydraulic pump with revolving head

2607515

€



Pompa idraulica manuale
Hand hydraulic pump

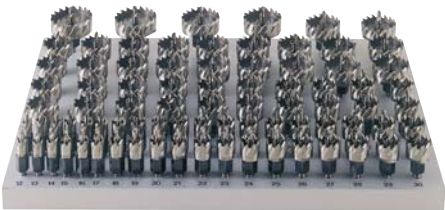
Espositori Utensili da taglio

Cutting tools display / Display outils coupant
Expositor utensilios de corte / Schneidwerkzeuge Aussteller



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. / La vitrine est gratuite en cas de commande de 6 plateaux avec outils à votre choix. / La vitrina es gratuita en caso de pedido con 6 rellanos con utensilios a Vuestra preferencia. / Der Schaukasten ist unentgeltlich für Ordnungen von Werkzeugen mit 6 Flächen, nach freier Wahl



Cod.	Composizione Description
01195861 82 pcs HSS-G €	21001  Ø12÷50+55-60 (2x)
01195876 82 pcs HSS-Co €	21011  Ø12÷50+55-60 (2x)



Cod.	Composizione Description
01195871 41 pcs HSS-G €	21001  Ø12÷50+55-60 (1x)
01195869 41 pcs HSS-G+TiN €	21300  Ø12÷50+55-60 (1x)



Cod.	Composizione Description	
01195860 53 pcs €	01180 Gr. 1-2-3 4-5-7-8 1 pc 	01200 Gr. 1-2-3-4 1 pc 
	01183 Gr. 2-3-4-5 6-9-24 1 pc 	01230 Gr. 2-3-4-5 6-9-24 1 pc 
	01185 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 pc 	01188 Gr 1-2-3-4 1 pc 
	0117601 5 pcs 	011750600 5 pcs 



Cod.	Composizione Description	
01195865 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



Cod.	Composizione Description	
01195879 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



Cod.	Composizione Description
01195864 32 pcs T.C.T. €	21040 Ø15÷40x1+42-45-48 50-55-60
01195878 27 pcs T.C.T. €	21042 Ø20÷40x1+42-45-48 50-55-60



Cod.	Composizione Description	Cod.	Composizione Description
01195880 28 pcs HSS €	21200 Weldon Ø12÷35x1 +38-40-45-50	01195884 26 pcs TCT €	21216 Weldon Ø14÷35x1 +38-40-45-50
01195882 28 pcs HSS CO €	21206 Weldon Ø12÷35x1 +38-40-45-50		
01195881 28 pcs HSS €	21202 Weldon Ø12÷35x1 +38-40-45-50	01195885 28 pcs HSS co €	21211 Quick IN Ø12÷35x1 +38-40-45-50
01195883 28 pcs HSS CO €	21207 Weldon Ø12÷35x1 +38-40-45-50	01195886 28 pcs Metallo duro Carbide €	21212 Quick IN Ø12÷35x1 +38-40-45-50



Cod.	Composizione Description
26008501 50 pcs HSS Z2+Z3 €	26001-26003 Ø6-8-10-12-15 (5x)
26035501 50 pcs HSS +TiAlN Z2+Z3 €	26031-26032 Ø6-8-10-12-15 (5x)



Cod.	Composizione Description
26030502 45 pcs HM4 €	26020 Ø 6-8-10-12-16 (9x)
26030504 45 pcs HM4+TiAlN €	26034 Ø 6-8-10-12-16 (9x)



Cod.	Composizione Description
21116112 24 pcs €	Ø 30-35-40 50-65-80-90-100 21110 21111
	HEX 12 SDS
	4 pcs 4 pcs 8 pcs

Espositori Utensili da taglio

Cutting tools display / Display outils coupant

Expositor utensilios de corte / Schneidwerkzeuge Aussteller



44x31x52 cm



Cod.	Composizione Description
01195761 59 pcs HSS-G €	21001  HSS-G Ø15÷37x2 + 38÷50x1
01195759 59 pcs HSS-Co €	21011  HSS-Co Ø15÷37x2 + 38÷50x1

Cod.	Composizione Description
01195760 45 pcs €	01180 Gr. 1-2-3 4-5-7-8  1 pc
	01200 Gr. 1-2-3-4  1 pc
	01183 Gr. 2-4-6 9-24  1 pc
	01230 Gr. 2-4-6 9-24  1 pc
	01185 Ø 5.3-6.3-8.3 10.4-12.4-15 16.5-20.5 25-28  1 pc
	01188 Gr 1-2-3-4  1 pc
0117601  5 pcs	011750600  5 pcs

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. / La vitrine est gratuite en cas de commande de 2 plateaux avec outils à votre choix. / La vetrina es gratuita en caso de pedido con 2 rellanos con utensilios a Vuestra preferencia. / Der Schaukasten ist unentgeltlich für Ordnungen von Werkzeugen mit 2 Flächen, nach freier Wahl



Cod.	Composizione Description
01195763 59 pcs HSS-G+TiN €	21300  Ø15÷37x2 + 38÷50x1



Cod.	Composizione Description
01195764 38 pcs HSS-G+TiAlN €	21325  Ø15÷50x1 + 55-60



Cod.	Composizione Description
01195762 38 pcs T.C.T. €	21040  Ø15÷50x1+55-60
01195777 33 pcs T.C.T. €	21042  Ø20÷50x1+55-60



Cod.	Composizione Description	Cod.	Composizione Description
01195778 23 pcs HSS €	21200 Weldon  Ø12÷30x1 +32-35-38-40	01195783 21 pcs TCT €	21216 Weldon  Ø14÷30x1 +32-35-38-40
01195781 23 pcs HSS CO €	21206 Weldon  Ø12÷30x1 +32-35-38-40		
01195779 23 pcs HSS €	21202 Weldon  Ø12÷30x1 +32-35-38-40	01195784 23 pcs HSS co €	21211 Quick IN  Ø12÷30x1 +32-35-38-40
01195782 23 pcs HSS CO €	21207 Weldon  Ø12÷30x1 +32-35-38-40	01195785 23 pcs Metallo duro Carbide €	21212 Quick IN  Ø12÷30x1 +32-35-38-40



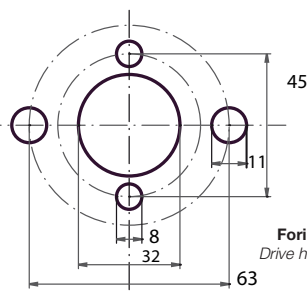
Cod.	Composizione Description
01195773 47 pcs HSS M3/1 €	21060 Ø 16-19-20-21-22-24-25 27-29-30 (2x) Ø 32-35-37-38-40-41-44 48-51-54-57-60-64-70-76 (1x) 
	210705519  6 pcs
	210705546  6 pcs



Cod.	Composizione Description
01195780 47 pcs M42 CO 8% €	21090 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

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 / Scies circulaires HSS et HSS-CO pour couper l'acier et les métaux
Hojas HSS y HSS-CO para sierras circulares y tronzadoras para cortar acero y metales / HSS und HSS-CO Sägeblätter für den Schnitt von Stahl und Metalle



N°2 Ø 11x63 mm

N°2 Ø 8x45 mm

Fori di trascinamento

Drive holes - Trousse guide

Orificios de arrastre

HSS

R≤900 N/mm²



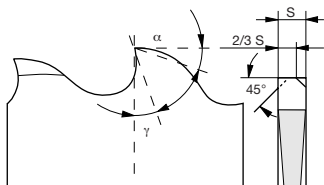
HSS-CO

R≤1200 N/mm²



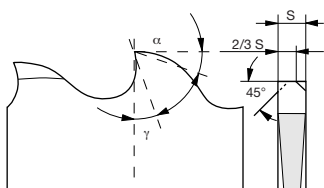
Profilati
structurals

BW DIN 1838 t4



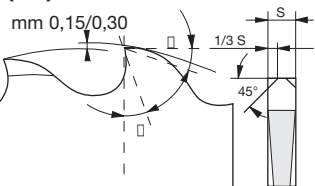
Pieni-profilati
full section-structurals

BW DIN 1838 t5



Pieni
Full section

C (HZ) t6



Confezione / Packaging



Art. 27001 HSS Vapo

Ø mm	s Spessore Thickness	d Foro Hole	z n° denti teeth	cod.	€ cad/each	Art. 27011 HSS-CO Vapo	€ cad/each
200	1,8	32	160	27001200		27011200	
225	1,9	32	180	27001225		27011225	
250	2	32	200	27001250		27011250	
275	2,5	32	220	27001275		27011275	
300	2,5	32	220	27001300		27011300	
315	2,5	32	240	27001315		27011315	
350	2,5	32	280	27001350		27011350	

Art. 27002 HSS Vapo

Ø mm	s Spessore Thickness	d Foro Hole	z n° denti teeth	cod.	€ cad/each	Art. 27012 HSS-CO Vapo	€ cad/each
200	1,8	32	128	27002200		27012200	
225	1,9	32	140	27002225		27012225	
250	2	32	160	27002250		27012250	
275	2,5	32	180	27002275		27012275	
300	2,5	32	180	27002300		27012300	
315	2,5	32	200	27002315		27012315	
350	2,5	32	220	27002350		27012350	

Art. 27003 HSS Vapo

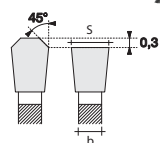
Ø mm	s Spessore Thickness	d Foro Hole	z n° denti teeth	cod.	€ cad/each	Art. 27013 HSS-CO Vapo	€ cad/each
200	1,8	32	100	27003200		27013200	
225	1,9	32	120	27003225		27013225	
250	2	32	128	27003250		27013250	
275	2,5	32	140	27003275		27013275	
300	2,5	32	160	27003300		27013300	
315	2,5	32	160	27003315		27013315	
350	2,5	32	180	27003350		27013350	

Seghe circolari con denti in metallo duro per Alluminio

Carbide tipped circular blades for Aluminium / Lames de scies circulaires carbure pour Aluminium

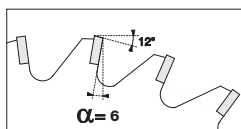
Sierras circulares con dientes de metal duro para Aluminium / Kreissägeblätter für Ne-Metall

KRINO

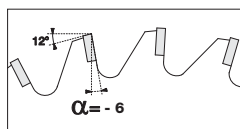


Dentatura sbozzatore-finitore
Rough and finishing teeth

N°2 Ø 11x63 mm
Fori di trascinamento
Drive holes - Trous guide
Orificios de arrastre



Ø 250-300



Ø 350

27050

Ø mm	s Spessore Thickness	b	d Foro hole	z n° denti teeth	α Spoglia hook angle	cod.	€ cad/each
250	3,2	2,2	32	80	+6°	270502503280	
300	3,3	2,4	32	96	+6°	270503003296	
350	3,6	2,8	32	108	-6°	2705035032108	

Applicazioni / Applications



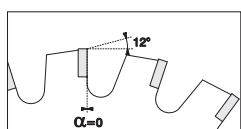
- Seghe adatte per il taglio di profilati e pieni in Alluminio, leghe non ferrose, resine e plastica dura. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.
- For cutting structurals and solids of Aluminium and light alloys. The circular blade can't go out the work-piece material further than 10÷15 mm.
- Indiquée pour la coupe de profiles et solides en Aluminium et alliages légers. La scie circulaire ne peut pas sortir de la pièce à couper plus que 10-15mm.
- Para el corte de perfiles y piezas macizas de Aluminio y aleaciones ligeras. La sierra circular no puede salir de la pieza a cortar más de 10-15mm.
- Zum sägen von profilen und voll Materialien aus Aluminium und Ne-Metall.

Sega circolare universale con denti in metallo duro

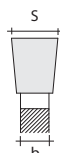
Universal carbide tipped circular sawblade / Lame de scie circulaire carbure universelle

Sierra circular universal con dientes de metal duro / Mehrzweck-Sägeblatt

Multiuso / multi-purpose



10% Cobalt



27055

Ø mm	s Spessore Thickness	b	d Foro hole	z n° denti teeth	α Spoglia hook angle	cod.	€ cad/each
160	2,2	1,8	20	28	0°	270551602028	
160	2,2	1,8	30	28	0°	270551603028	
180	2,2	1,8	30	32	0°	270551803032	
190	2,2	1,8	30	32	0°	270551903032	
230	2,2	1,8	30	40	0°	270552303040	
250	2,4	2,0	20	48	0°	270552502048	
250	2,4	2,0	30	48	0°	270552503048	
300	2,4	2,0	30	60	0°	270553003060	

Applicazioni / Applications

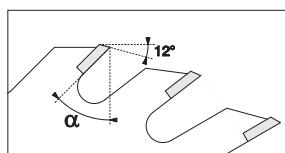


- Lama circolare con denti in metallo duro per il taglio a secco di ferro, acciaio dolce, alluminio, leghe leggere, materiali composti (pannelli isolanti, laminati), plastica dura, legno e truciolati. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.
- Ideal for cutting in iron, soft steel, 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.
- Indiquée pour la coupe de fer, acier, Aluminium et alliages légers, plastique, plexiglass, aggloméré, composites. Utilisation pour machines électroportatives et stationnaires. La scie circulaire ne peut pas sortir de la pièce à couper plus que 10-15mm.
- Para el corte de hierro, acero dulce, Aluminio y aleaciones ligeras, aglomerado, plastica, paneles. La sierra circular no puede salir de la pieza a cortar más de 10-15mm.
- Ideal für licht Stahl, Aluminium, Messing, Kupfer, Kunststoffe, Plexiglass, Spanplatten, Mineralstoffplatten.

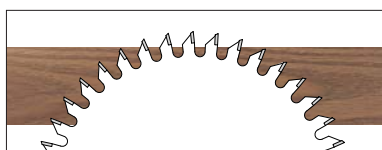
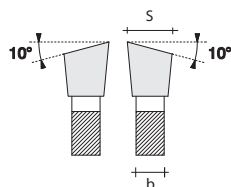
Seghe circolari per legno con denti in metallo duro per segatrici portatili

Carbide tipped circular sawblades for wood for portable machines / Lames de scies avec dente carbure pour bois avec machines électroportatives / Sierras para madera para maquinas portatiles / Kreissägeblätter für Holz mit handkreissägen Maschinen

27060



Dentatura alternata
Alternated teeth



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.

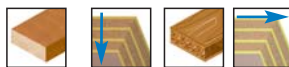
Confezione / Packaging



Ø mm	s Spessore Thickness	b	d Foro hole	z n° denti teeth	α Spoglia hook angle	cod.	€ cad/each
140	2,5	1,6	20	20	15°	270601402020	
150	2,5	1,6	16	24	15°	270601501624	
150	2,5	1,6	20	24	15°	270601502024	
150	2,5	1,6	16	40	15°	270601501640	
150	2,5	1,6	20	40	15°	270601502040	
160	2,5	1,6	20	24	15°	270601602024	
160	2,5	1,6	30	24	15°	270601603024	
160	2,5	1,6	20	40	15°	270601602040	
160	2,5	1,6	30	40	15°	270601603040	
180	2,5	1,6	20	24	15°	270601802024	
180	2,5	1,6	30	24	15°	270601803024	
180	2,5	1,6	20	40	15°	270601802040	
180	2,5	1,6	30	40	15°	270601803040	
190	2,5	1,6	20	24	15°	270601902024	
190	2,5	1,6	30	24	15°	270601903024	
210	2,8	1,8	30	24	15°	270602103024	
235	2,8	1,8	30	24	15°	270602353024	



Applicazioni / Applications



- 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.
- Coupe en bois et dérivés (agglomérés, contreplaqués), stratifié ou lamifiés et plastiques avec machines électroportatives. La scie circulaire ne peut pas sortir de la pièce à couper plus que 10-15mm.
- Para cortar madera y sus derivaciones con machina portatiles. La sierra circular no puede salir de la pieza a cortar más de 10-15mm.
- Ideal für Holz mit Handkreissägen Maschinen.

Lame professionali con denti in metallo duro per legno

Carbide tipped circular sawblades for wood / Lames de scies circulaires carbure pour bois
Sierras circulares de metal duro para madera / Kreissägeblätter für Holz

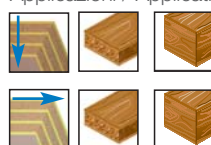
KRINO®

27070

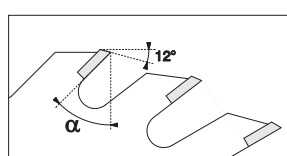


Ø mm	s Spessore Thickness	b	d Foro hole	z n° denti teeth	α Spoglia hook angle	cod.	€ cad/each
250	3,0	2,0	30	40	10°	270702503040	
250	3,2	2,2	30	60	10°	270702503060	
250	3,2	2,2	30	80	10°	270702503080	
300	3,0	2,0	30	48	12°	270703003048	
300	3,2	2,2	30	72	10°	270703003072	
300	3,2	2,2	30	96	10°	270703003096	
350	3,2	2,2	30	54	12°	270703503054	
350	3,5	2,5	30	84	10°	270703503084	
400	3,8	2,8	30	64	12°	270704003064	

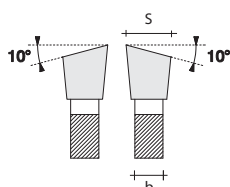
Applicazioni / Applications



- 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.
- Coupe en long et traverse des bois et dérivés (agglomérés, contreplaqués). La scie circulaire ne peut pas sortir de la pièce à couper plus que 10-15mm.
- Indicados para el corte longitudinal y trasversal de maderas in general. La sierra circular no puede salir de la pieza a cortar más de 10-15mm.
- Blätter für längs- und querschnitte bei allen Holztypen.



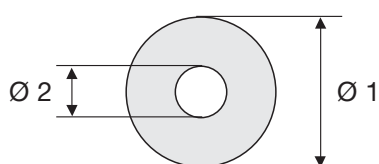
Dentatura alternata
Alternated teeth



Anelli di riduzione per tutti i tipi di lame circolari

Reduction ring for every kind of circular blades / Bagues de réduction pour toutes les scies circulaires
Anillos para reduccion / Reduzierringe

27072



Ø1/Ø 2	cod.	€ cad/each
35 / 30	270723530	
35 / 25	270723525	
35 / 20	270723520	
32 / 30	270723230	
32 / 25	270723225	
32 / 20	270723220	
30 / 25	270723025	
30 / 20	270723020	
30 / 18	270723018	
30 / 16	270723016	
25 / 20	270722520	
20 / 16	270722016	

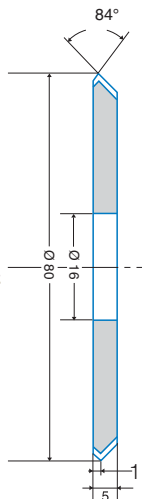
Frese a disco per chiavi

Milling cutters for keys / Fraises pour clefs

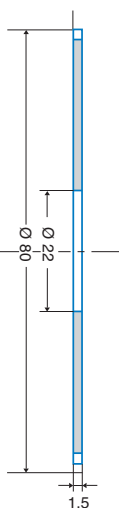
Fresas para llaves / Fräser für Schlüssel

26125

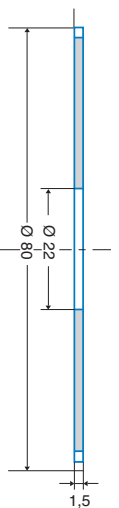
Frese biconiche Prismatic milling cutters



Frese a disco a 3 tagli Three cutting milling cutters



Frese a disco a taglio periferico Peripheral milling cutters



PER MACCHINE DUPLICATRICI DI CHIAVI:

for key cutting machines:

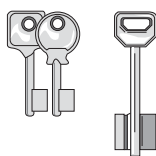


Rekord – Rekord plus, Rekord 2000,
Special Super, Special Master,
Bravo Super, Bravo Master,
Bravo Europa, Poker-s, Poker Plus, etc...

Dimensioni Sizes	Z Denti/Teeth	Cod.	€ cad/each
Ø 80x5x16 HSS-CO	110	26125001	
Ø 80x5x16 HSS-CO	120	26125002	
Ø 80x5x16 ASP 30 - CO8%	110	26125003	
Ø 80x5x16 Metallo duro/Carbide	80	26125005	

PER MACCHINE DUPLICATRICI DI CHIAVI:

for key cutting machines:

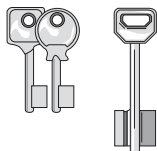


Targa –Targa 2000 –Targa 2000 P
Tech 3, Modular IV, Serenissima,
Opera IV, X80, GT 40B, GT 40C,
GT 40D, Super Dar, Mini Jolly, etc..

Dimensioni Sizes	Z Denti/Teeth	Cod.	€ cad/each
Ø 80x1,5x22 HSS-CO	100	26125010	
Ø 80x1,5x22 ASP 30 - CO8%	100	26125012	
Ø 80x1,5x22 Metallo duro/Carbide	100	26125015	

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 Denti/Teeth	Cod.	€ cad/each
Ø 80x1,5x22 HSS-CO	100	26125020	
Ø 80x1,5x22 ASP 30* - CO8%	100	26125022	
Ø 80x1,5x22 Metallo duro/Carbide	100	26125025	

* 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% -

Barrette trattate e rettificate in HSS-CO 10%

HSS-CO 10% tool bits / Tiges traitées en HSS-CO 10%

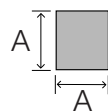
Cuchillas HSS de Cobalto 10% para tornio - HSS-CO 10% Stabstahl



HSS-CO 10%



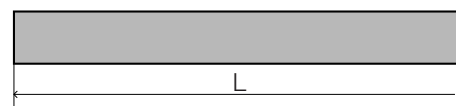
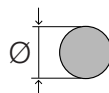
Art. 26150 DIN 4964/B



AxA h14	L mm	cod.	€ cad/each
6 x 6	160	261500606160	
6 x 6	200	261500606200	
8 x 8	160	261500808160	
8 x 8	200	261500808200	
10 x 10	160	261501010160	
10 x 10	200	261501010200	
12 x 12	160	261501212160	
12 x 12	200	261501212200	
14 x 14	160	261501414160	

AxA mm	L mm	cod.	€ cad/each
14 x 14	200	261501414200	
16 x 16	160	261501616160	
16 x 16	200	261501616200	
18 x 18	160	261501818160	
18 x 18	200	261501818200	
20 x 20	160	261502020160	
20 x 20	200	261502020200	
30 x 30	200	261503030200	

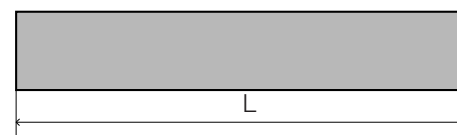
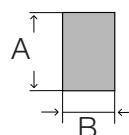
Art. 26152 DIN 4964/A



Ø h14	L mm	cod.	€ cad/each
4,0	100	2615204100	
5,0	100	2615205100	
6,0	100	2615206100	
6,0	160	2615206160	
6,0	200	2615206200	
8,0	100	2615208100	
8,0	160	2615208160	
8,0	200	2615208200	
10,0	100	2615210100	
10,0	160	2615210160	
10,0	200	2615210200	

Ø mm	L mm	cod.	€ cad/each
12	160	2615212160	
12	200	2615212200	
14	160	2615214160	
14	200	2615214200	
15	200	2615215200	
16	160	2615216160	
16	200	2615216200	
18	200	2615218200	
20	160	2615220160	
20	200	2615220200	

Art. 26154 DIN 4964/D



AxB h14	L mm	cod.	€ cad/each
10 x 4	160	261541004160	
10 x 5	200	261541005200	
12 x 6	200	261541206200	
12 x 8	200	261541208200	
15 x 4	200	261541504200	
16 x 4	160	261541604160	
16 x 4	200	261541604200	

AxB mm	L mm	cod.	€ cad/each
16 x 10	200	261541610200	
20 x 4	200	261542004200	
20 x 5	200	261542005200	
20 x 6	200	261542006200	
20 x 8	200	261542008200	
20 x 10	200	261542010200	
20 x 12	200	261542012200	

Confezione / Packaging



Lama a mano per il taglio di tutti i metalli

Hack saw blades for metal cutting / Lames de scies à main pour métaux

Hojas de sierra a mano / Sägeblätter

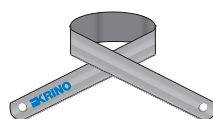
~ UNI 4000



BIMETAL HSS-CO8% SUPERFLEX



HRC 66÷67
HRC 40÷42



Super Flex



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.

Cod.	Dimensioni Sizes	Z n° Denti t.p.i.	€ cad/each
23001101	300x13x0,65 12"x1/2x0,025	18	
23001100	300x13x0,65 12"x1/2x0,025	24	
23001102	300x13x0,65 12"x1/2x0,025	32	

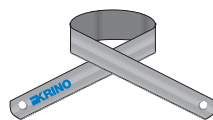
Features:

- High performances, safe and smooth cut in stainless steel, high alloy steel, structural steel, light alloys, metals.
- Pour des travaux dans des aciers très durs, aciers inoxydables, aciers réfractaires pour une précision et sécurité garantis.
- Para cortar materiales muy duros, acero inox, acero tratado, aleaciones ligeras, metales. Corte seguro y preciso.
- Einsatz: Stahl und Stahlguss, V2A - V4A etc.

HSS-BIMETAL



HRC 64
HRC 38÷40



Super Flex

Cod.	Dimensioni Sizes	Z n° Denti t.p.i.	€ cad/each
23001110	300x13x0,65 12"x1/2x0,025	18	
23001120	300x13x0,65 12"x1/2x0,025	24	
23001130	300x13x0,65 12"x1/2x0,025	32	

- Lama superflessibile professionale per il taglio degli acciai duri, dolci, tutti i metalli.
- Shatterproof blades for cutting iron, alloy steel, light alloys, any kind of metal.
- Lames de scies professionnel pour acier dur, alliages légers, métaux
- Hoja de sierra profesional para cortar acero duro, acero aleado, aleaciones ligeras, metales.
- Einsatz : Stahl und Stahlguss, Ne-Metall

HSS



HRC 64

Cod.	Dimensioni Sizes	Z n° Denti t.p.i.	€ cad/each
23001150	300x13x0,65 12"x1/2x0,025	24	

- Lama professionale HSS a tempra integrale per un taglio preciso ad alto rendimento in tutti gli acciai duri, acciai in genere, leghe leggere, metalli.
- All hard HSS hack saw blades.
- Lame HSS professionnelle pour un découpage précis en tous les aciers durs et les métaux
- Hoja de sierra profesional HSS a temple integral para el corte preciso de alto rendimiento en todos los aceros duros, aceros, aleaciones ligeras, metales.
- Berufliches HSS Lama für einen genauen Schnitt.

High carbon flexible



HRC 60

Cod.	Dimensioni Sizes	Z n° Denti t.p.i.	€ cad/each
23001160	300x13x0,65 12"x1/2x0,025	24	

- Lama in acciaio da utensile per il taglio occasionale e non professionale di materiali dolci.
- Carbon flexible hack saw blades for occasional usage.
- Lame en acier pour outils destinés aux découpages pas professionnels et occasionnels des métaux doux
- Hoja de sierra en acero al carbono flexible para el corte ocasional y no profesional en materiales dulces.
- Lama aus Stahl für nicht beruflichen und gelegentlichen Schnitte.

Packaging



100 pcs

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 / Lame de scies au carbure de tungstène
Hojas de sierra de metal duro / Diamant Sägeblätter



Cod.	Dimensioni Sizes	€ cad/each
23010060	300x13x0,65 12"x1/2"x0,025	



Packaging 10 pcs

- 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.
- 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.
- Perçage droit des matériaux très durs et abrasifs
- Corte plano de materiales muy duros y abrasivos.
- Einsatz: Schneiden der ganzen harten und schleifen Materialien.

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 / Lame-fil de carbure de tungstène
Cordones de metal duro / Diamant Sägeblätter



Cod.	Dimensioni Sizes	€ cad/each
23005050	300 12"	



Packaging 10 pcs

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

- Coupe en façon progressive : acier inox, aciers durs, tous les aciers, boulons, câbles, céramique, marbre, granit, grès, ciment, verre, cristal.
- Corte en manera dulce y progresiva : acero inox y aceros duros tratados, todos los aceros, pernos, cadenas templadas, cables de tracción, cerámica, mármol, granito, gres, fibra de cemento, vidrio y cristal.
- Schneidet in einer Progressivweise: rostfreier Stahl, hart Stahl, Bolzen, Ketten, Keramik, emailliert Steingut, Glass und Kristall.

Sostituisce il tagliabulloni, le mole abrasive ed il taglio all'acetilene per molte operazioni!!

Carbide grit particles permanently bounded to alloy steel rod can be substituted for bolt cutters, acetylene torches and abrasive wheel, cuts "unsawable materials" like glass, ceramic tile and hardened tool steel. Cuts in any direction and works in tight spaces.

Lama a mano per segchetti tipo "PUK®"

Hack saw blades type "PUK®"
Lame de scie à main type "PUK®"
Hoja de sierra de cinta tipo "PUK®"
Händliches Sägeblätter für Metallsäge "PUK®"



Cod.	Dimensioni Sizes	Z tpi	€ cad/each
23012100	150 mm 6"	24	

HCS



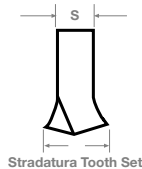
Packaging 100 pcs

Lame a nastro bimetalliche in acciaio AISI M42

M42 bi-metal bandsaw blades / Rubans M42

Cinta de sierra M42 / Bandsägeblätter M42

25010

AISI M42 - 8%Co
HRC: 67/69

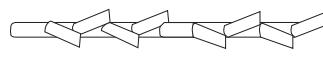
Fissa - Regular



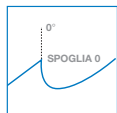
Variabile - Variable



Stradatura - Tooth set

la più utilizzata
most used

Normale dritta - Straight raker set



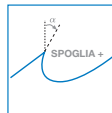
SPOGLIA NEUTRA - Standard straight rake

- Dentatura variabile - variable tooth

(z - tpi 6/10÷10/14)

- Dentatura costante - regular tooth

(z - tpi 8÷24)



SPOGLIA POSITIVA - Positive rake

- Dentatura variabile - variable tooth

(z - tpi 0,75/1,25÷5/8)

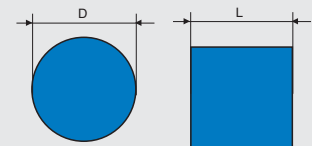
- Dentatura costante - regular tooth

(z - tpi 0,75÷6)



Tabella per la scelta della dentatura (per ogni tipo di lama)

Tooth selection / comment pour choisir la denture / tabla para la elección del paso del diente



Dentatura variabile - Variable tooth

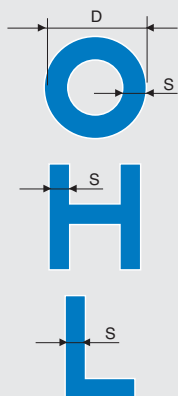
Sezioni piene - Solid cross section

D-L (mm.)	→	20	30	50	80	100	200	300	500	800	
Z-tpi	→	10/14	8/12	6/10	5/8	4/6	4/6	3/4	2/3	1,5/2	0,75/1,25

Dentatura costante - Regular tooth

Sezioni piene - Solid cross section

D-L (mm.)	6	10	20	30	50	80	100	120	200	300	400	500	800
Z-tpi	24	18	14	10	8	6	4	3	2	1,25	1,25	1,25	0,75



S (mm.)	D (mm.)											
	20	40	60	80	100	120	150	200	400	500		
≤ 2	14	14	10/14	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10
3	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	6/10	5/8	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	3/4	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	2/3	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

- Ideali per il taglio di sezioni piene e sezioni interrotte (tubi, profilati) di grandi dimensioni, in acciai da costruzione, acciai per stampaggio, acciai medio ed alto legati, **acciai inossidabili**, ghisa, alluminio, materiali non ferrosi. Ideale per il taglio su segatrici automatiche e semiautomatiche, nella totalità delle lavorazioni artigianali ed industriali (carpenterie pesanti e non, torneria, forgiatura, fonderia, taglio industriale in genere).

- All performance band recommended for cutting material of moderate to difficult machinability with automatic sawing machines. Ideal for production and non production cutting of solids and thick wall tubing of medium and high alloy steel, such as stainless steel.

- Très bon rendement, recommandé pour le débit industriel sur machines automatiques et semi-automatiques en acier de construction, acier allié, acier inox, prétraité, gros profilé. Utilisation en atelier de débit, mécanique générale, charpente métallique.

- Cinta de sierra de larga duración y resistente al desgaste, ideal para líneas de fabricación industriales y mecánica general. Recomendada para máquinas automáticas y semiautomáticas de producción en aceros de construcción, aceros aleados, inox, perfiles gruesos.

- Für den universellen Einsatz auf stabilen Maschinen. Geeignet für alle zerspannungsfähigen Werkstoffe, Baustähle, Werkzeugstähle, Schnellstähle, Chrom-Nickel-Stähle.



AISI M42
25010

HxS mm	Dentature disponibili (n° denti per pollice/tpi)	Costante - Regular	prezzo metro (saldatura inclusa) price per meter (welded bandsaw)
			€/Mt
6 x 0,65	10/14	6	
6 x 0,9	10/14	4-6 10-14	
10 x 0,65	10/14	6	
10 x 0,9	10/14	4-6 10-14	
13 x 0,65	5/8-6/10-8/12-10/14	3-4-6 10-14-18	
13 x 0,9	6/10-8/12-10/14	3-4-6 10-14	
20 x 0,9	4/6-5/8-6/10-8/12-10/14	3-4	
27 x 0,9	2/3-3/4-4/6-5/8-6/10-8/12-10/14		
34 x 1,1	2/3-3/4-4/6-5/8-6/10-8/12		
41 x 1,3	1,5/2-2/3-3/4-4/6-5/8-6/10		
54 x 1,3	2/3-3/4-4/6		
54 x 1,6	0,75/1,25-1/1,5-1,5/2-2/3-3/4-4/6		

Listino anelli saldati per le segatrici più comuni

Price list for the most common welded bandsaw blades / List de prix des rubans soudés plus vendues

Tariffa de precios de sierra cinta soldadas a medida / Preis für geschweibte Metallbandsägen

Art. 25010 - AISI M42

Dimensioni Size	€	Dimensioni Size	€	Dimensioni Size	€	Dimensioni Size	€
1138 x 13 x 0,65		2625 x 20 x 0,90		2925 x 27 x 0,90		4120 x 34 x 1,10	
1140 x 13 x 0,65		2650 x 20 x 0,90		2940 x 27 x 0,90		4250 x 34 x 1,10	
1300 x 13 x 0,65		2450 x 27 x 0,90		2945 x 27 x 0,90		4460 x 34 x 1,10	
1325 x 13 x 0,65		2500 x 27 x 0,90		2950 x 27 x 0,90		4500 x 34 x 1,10	
1330 x 13 x 0,65		2520 x 27 x 0,90		3000 x 27 x 0,90		4570 x 34 x 1,10	
1335 x 13 x 0,65		2550 x 27 x 0,90		3010 x 27 x 0,90		4600 x 34 x 1,10	
1440 x 13 x 0,65		2560 x 27 x 0,90		3025 x 27 x 0,90		4860 x 34 x 1,10	
1470 x 13 x 0,65		2580 x 27 x 0,90		3100 x 27 x 0,90		4970 x 34 x 1,10	
1638 x 13 x 0,65		2590 x 27 x 0,90		3120 x 27 x 0,90		5300 x 34 x 1,10	
1640 x 13 x 0,65		2600 x 27 x 0,90		3150 x 27 x 0,90		5400 x 34 x 1,10	
1735 x 13 x 0,65		2650 x 27 x 0,90		3180 x 27 x 0,90		5600 x 34 x 1,10	
1735 x 13 x 0,90		2700 x 27 x 0,90		3200 x 27 x 0,90		6150 x 34 x 1,10	
1740 x 13 x 0,90		2710 x 27 x 0,90		3225 x 27 x 0,90		4550 x 41 x 1,30	
1745 x 13 x 0,90		2720 x 27 x 0,90		3320 x 27 x 0,90		4870 x 41 x 1,30	
1900 x 20 x 0,90		2750 x 27 x 0,90		3370 x 27 x 0,90		5100 x 41 x 1,30	
2000 x 20 x 0,90		2755 x 27 x 0,90		3435 x 27 x 0,90		5250 x 41 x 1,30	
2060 x 20 x 0,90		2760 x 27 x 0,90		3505 x 27 x 0,90		5300 x 41 x 1,30	
2080 x 20 x 0,90		2765 x 27 x 0,90		3580 x 27 x 0,90		5400 x 41 x 1,30	
2140 x 20 x 0,90		2770 x 27 x 0,90		3660 x 27 x 0,90		5450 x 41 x 1,30	
2160 x 20 x 0,90		2800 x 27 x 0,90		3810 x 27 x 0,90		5550 x 41 x 1,30	
2190 x 20 x 0,90		2825 x 27 x 0,90		3850 x 27 x 0,90		5620 x 41 x 1,30	
2360 x 20 x 0,90		2830 x 27 x 0,90		3900 x 27 x 0,90		5800 x 41 x 1,30	
2375 x 20 x 0,90		2835 x 27 x 0,90		3505 x 34 x 1,10		6150 x 41 x 1,30	
2465 x 20 x 0,90		2840 x 27 x 0,90		3634 x 34 x 1,10		6380 x 41 x 1,30	
2500 x 20 x 0,90		2845 x 27 x 0,90		3660 x 34 x 1,10		7400 x 41 x 1,30	
2525 x 20 x 0,90		2850 x 27 x 0,90		4100 x 34 x 1,10			
2530 x 20 x 0,90		2880 x 27 x 0,90		4115 x 34 x 1,10			

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

€

**Olio da taglio
emulsionabile in tanica 5 Kg (5lt)**

Cutting oil tank 5 lt



Lame a nastro bimetalliche in AISI M42 con dentatura rinforzata per utilizzi "universali"

M42 bimetal bandsaw blades with reinforced teeth for "universal" uses / Rubans M42 avec denture renforcée pour usage "universel" /

Cinta de sierra M42 con dientes reforzados para uso "universal" / Bandsägeblätter M42 mit verstärkter Verzahnung für "universalen" Benutzungen

UNIVERSAL
25016

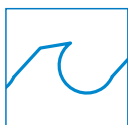
AISI M42 - HRC 68÷69

Grande rendimento per utilizzi universali
High performance for universal purposes

Speciale per lavori di carpenteria generica: taglio misto di profilati, scatolati, piccoli pieni di ferro, acciaio comune, inox.
Special for carpentry: cut into structurals and little solids made of iron, common steel, stainless steel.



Dente rinforzato
 Reinforced tooth



Grande rendimento
High performance

CARATTERISTICHE / FEATURES

- Elevata resistenza agli impatti, ai carichi dinamici e all'usura: grandi capacità di taglio e grande rendimento nella lavorazione di sezioni interrotte come tubi, profilati, travi, anche in pacco. Riduzione notevole di fenomeni di scheggiatura.
- *High resistance to impact, dynamic load, wear: high cutting performances into pipes, tubes, structurals, beam. Best reduction of chipping.*

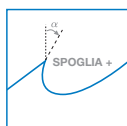
Dimensione Sizes HxS	Dentature disponibili (n° denti per pollice/tpi)	prezzo metro (saldatura inclusa) price per meter (welded band saw) €/Mt
27 x 0,9	3/4-4/6-5/8-8/12	
34 x 1,1	3/4-4/6-5/8	
41 x 1,3	3/4-4/6	

Lame a nastro bimetalliche per utilizzi speciali

Bimetal bandsaw blades for special uses / Rubans bimétalliques pour usages spéciaux

Cintas de sierra bimetalicas para usos especiales / Bandsägeblätter für Sonderverwendungen

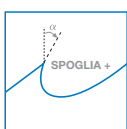
Su richiesta / On demand
25012

AISI M51 (10% CO) - HRC: 70÷71

 $(\alpha = 12^{\circ} \div 15^{\circ})$

M51

- Lama molto dura ed aggressiva, da impiegare esclusivamente per il taglio di sezioni piene in acciaio inox, superleghe (inconel, monel, hastelloy), acciai superrapidi, barre cromatiche.
- *Use only for cutting in solids of stainless steel, cobalt and nickel superalloys (inconel, monel, hastelloy), high speed tool steel, induction hardened and chrome shafts.*

25020

M42+TiN - HV: 2300


Spoglia positiva
 Positive rake

M42+TiN

- **Impiegare unicamente** per il taglio di piccole sezioni piene e sezioni interrotte (tubi, profilati) in acciaio inox, titanio, acciai per utensili, su segatrici automatiche e semiautomatiche. Grande rendimento, grande durata della lama
- *Strongly recommended for use only in cutting small sections of solids, structurals and tubes in stainless steel, titanium, tool steel.*