

Инструменты для резки металла

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

PUNZONI STANDARD CON CUSCINETTO

Standard ball bearing punches / Emporte pieces standard

Punzonador standard / Schraub-locher

26070



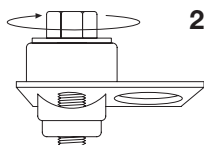
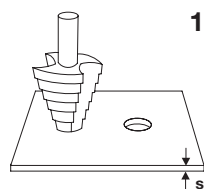
Ø mm	Pg/M	S	cod.
10		1,5	2607001000
11		1,5	2607001100
12		1,5	2607001200
12,5	Pg 7/M 12x1,5	1,5	2607001250
13		1,5	2607001300
14		1,5	2607001400
15		1,5	2607001500
15,2	Pg 9	1,5	2607001520
16		2	2607001600
16,5	M 16x1,5	2	2607001650
17		2	2607001700
18		2	2607001800
18,6	Pg 11	2	2607001860
19		2	2607001900
20		2	2607002000
20,5	Pg 13,5/M 20x1,5	2	2607002050
21		2	2607002100
22		2	2607002200
22,5	Pg 16	2	2607002250
23		2	2607002300
24		2	2607002400
25		2	2607002500
25,5	M 25x1,5	2	2607002550
26		2	2607002600
27		2	2607002700
28		2	2607002800
28,3	Pg 21	2	2607002830
29		2	2607002900
30		2	2607003000
30,5		2	2607003050
32		2	2607003200
32,5	M 32x1,5	2	2607003250
33		2	2607003300
34		2	2607003400
35		2	2607003500
36		2	2607003600
37	Pg 29	2	2607003700

Ø mm	Pg/M	S	cod.
38		2	2607003800
39		2	2607003900
40		2	2607004000
40,5	M 40x1,5	2	2607004050
41		2	2607004100
42		2	2607004200
43		2	2607004300
44		2	2607004400
45		2	2607004500
46		2	2607004600
47	Pg 36	2	2607004700
48		2	2607004800
50		2	2607005000
50,5	M 50x1,5	3	2607005050
51		3	2607005100
52		3	2607005200
52,5		3	2607005250
54	Pg 42	3	2607005400
55		3	2607005500
57		3	2607005700
58		3	2607005800
59		3	2607005900
60	Pg 48	3	2607006000
60,5		3	2607006050
61		3	2607006100
62		3	2607006200
63		3	2607006300
63,5	M 63x1,5	3	2607006350
64		3	2607006400
65		3	2607006500
70		3,5	2607007000
73		3,5	2607007300
75		3,5	2607007500
80		3,5	2607008000
85		3,5	2607008500
89		3,5	2607008900
102		3,5	2607010200

Art. 26071

Tiranti con cuscinetti

Draw stud



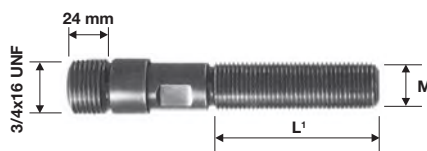
M	a	per punzoni for punches	cod.
6x1	5	Ø 10÷13	2607106X1
8x1	13	Ø 14÷15,2	2607108X1
10x1	17	Ø 16÷38	2607110X1
12x1,5	19	Ø 39÷50	2607112X15
16x1,5	24	Ø 51÷62	2607116X15
20x1,5	30	Ø 66÷85	2607120X15
24x1,5	36	Ø 86÷102	2607124X15

a = Dimensione della chiave per la testa del tirante

Art. 26084

Tiranti per pompa idraulica 2607514-2607515

Draw stud for hydraulic pump 2607514-2607515



M	L1	per punzoni for punches	cod.
8 x 1	38	Ø14÷15,2	2608408x1
10 x 1	40	Ø16÷38	2608410x1
12 x 1,5	50	Ø39÷50	2608412x15
16 x 1,5	60	Ø51÷62	2608416x15
20 x 1,5	73	Ø63÷85	2608420x15
24 x 1,5	81	Ø89÷102	2608424x15

Applicazioni
Applications



- Adatti per fori precisi in lamiere di acciaio, acciaio inox, tutti i metalli, plastica
- For precise holes in steel and stainless steel metal sheets, metals, plastics
- Pour trous précis dans le tole en acier, acier 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



26085110

Pg 7 - Pg 48

Ø 12,5-15,2-18,6-20,5
22,5-28,3-37-47-54-60



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 

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

Pompa idraulica manuale a testa orientabile (600 bar)
Utilizzo con punzoni fino a 63,5 mm.
Contiene 4 tiranti e 4 spessori.
Hydraulic pump with revolving head.
With 4 drawstud and 4 shims.



2607514

* Pompa idraulica manuale (700 bar)
Utilizzo con punzoni fino a 150 mm. Lunghezza tubo: 0,9 m.
Hand hydraulic pump

* In esaurimento
To be discontinued



2607515

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 repelanos 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) 
01195871 41 pcs HSS-G	21001 Ø12÷50+55-60 (1x) 
01195869 41 pcs HSS+TiN	21300 Ø12÷50+55-60 (1x) 



Cod.	Composizione Description
01195862 82 pcs HSS-G HSS+TiN	21001 Ø12÷50+55-60 (2x) 
	21300 Ø12÷50+55-60 (1x) 



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



Cod.	Composizione Description
01195859 53 pcs	01180 Gr. 1-2-3-4 2 pc Gr. 5-7-8 1 pc 
	01183 Gr. 2-3-4-5-6-9-24 2 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 
	0117601 5 pcs 
	01188 Gr. 1-2-3-4 1 pc 
	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
01195877 72 pcs	21066  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
01195880 28 pcs HSS	21200 Weldon  Ø12÷35x1 +38-40-45-50



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

Cod.	Composizione Description
01195866 32 pcs	21015  Ø 16-22-25-27-30-35-38-40 45-50-55-60-65-70-80 (2x) Ø 85-100 (1x)



Cod.	Composizione Description
26008501 50 pcs HSS Z2+Z3	26001-26003  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	21110  Ø 30-35-40 21111  50-65-80-90-100
HEX 12  4 pcs	SDS  4 pcs  8 pcs

Cod.	Composizione Description
21116117 29 pcs	21122  Ø 40-50-60-66-80-90-100
21130316  10 pcs	21130110  6 pcs 21130300  3 pcs 21130305  3 pcs

ESPOSITORI UTENSILI DA TAGLIO

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



44x31x52 cm

La vetrina è in omaggio per ordini di 2 ripiani di utensili a scelta
The display is free of charge in case of an order with 2 shelves with tools at your choice / La vitrine est gratuite en cas de commande de 2 plateaux avec outils à votre choix / La vitrina 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
01195761 59 pcs HSS-G	21001 HSS-G 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



Cod.	Composizione Description
01195786 38 pcs HSS+TiN	21300  Ø15÷50+55-60x1



Cod.	Composizione Description
01195764 38 pcs HSS-G+TiALN	21325



Cod.	Composizione Description
01195762 38 pcs T.C.T.	21040  Ø15÷50x1+55-60

Cod.	Composizione Description
01195778 23 pcs HSS	21200 Weldon +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



Cod.	Composizione Description
01195774 31 pcs	21110 Ø 25-30-35-40 (2x) 50-65 (2x) 80-90-100 (1x) 21111
	21115501  2 pcs
	21115521  2 pcs
	21115504  2 pcs
	21115524  2 pcs
	21115506  8 pcs

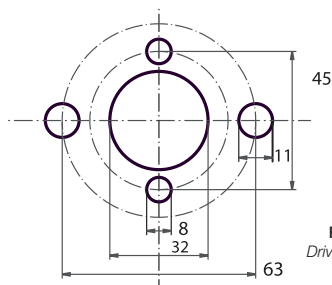
Professional

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

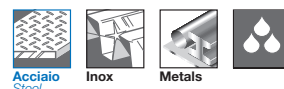
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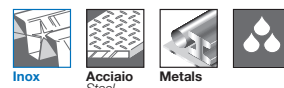
N°2 Ø 11x63 mm
N°2 Ø 8x45 mm
Fori di trascinamento
Drive holes - Trousse guide
Orificios de arrastre

Troncatrici lente - Slow cutting-off machines

HSS
R≤900 N/mm²

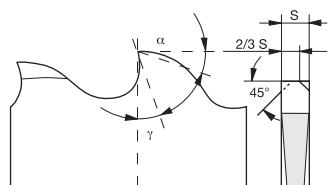


HSS-CO
R≤1200 N/mm²



Profilati
Structurals

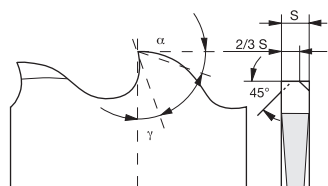
BW DIN 1838 t4



Ø mm	s spessore thickness	d foro hole	z n. denti teeth	Art. 27001 HSS Vapo	Art. 27011 HSS-CO Vapo
				cod.	cod.
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

Pieni-profilati
Full section-structurals

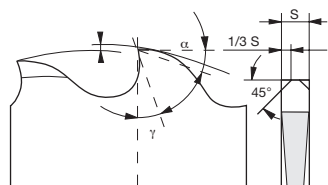
BW DIN 1838 t5



Ø mm	s spessore thickness	d foro hole	z n. denti teeth	Art. 27002 HSS Vapo	Art. 27012 HSS-CO Vapo
				cod.	cod.
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

Pieni
Full section

C (HZ) t6



Ø mm	s spessore thickness	d foro hole	z n. denti teeth	Art. 27003 HSS Vapo	Art. 27013 HSS-CO Vapo
				cod.	cod.
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

t = è il passo tra due denti consecutivi espresso in mm.

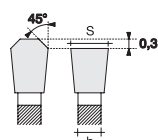
Confezione
Packaging



SEGHE CIRCOLARI CON DENTI IN METALLO DURO PER ALLUMINIO

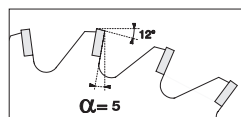
Carbide tipped circular blades for Aluminium / Lames de scies circulaires carbure pour Aluminium

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



Dentatura sbozzatore-finitore
Rough and finishing teeth

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



27050

Ø mm	s spessore thickness	b	d foro hole	z n. denti teeth	α spoglia hook angle	cod.
250	3,2	2,2	32	60	5	270502503260
250	3,2	2,2	32	80	5	270502503280
300	3,2	2,4	32	72	5	270503003272
300	3,2	2,4	32	84	5	270503003284
300	3,2	2,4	32	96	5	270503003296
350	3,4	2,8	32	84	5	270503503284
350	3,4	2,8	32	96	5	270503503296
350*	3,6	2,8	32	108	5	2705035032108
400	3,6	2,8	32	96	5	270504003296
400*	3,6	2,8	32	120	5	2705040032120
420	3,8	3,0	32	108	5	2705042032108
450*	3,8	3,0	32	96	5	270504503296
450*	3,8	3,0	32	108	5	2705045032108
500*	4,0	3,2	32	120	5	2705050032120

* Incisioni anti rumore - Anti noise notches

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.

Velocità di taglio
Cutting speed

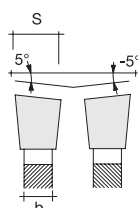
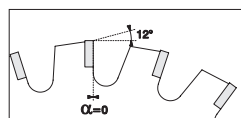


SEGA CIRCOLARE UNIVERSALE CON DENTI IN METALLO DURO

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

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

Multiuso / multi-purpose



27055

Ø mm	s spessore thickness	b	d foro hole	z n. denti teeth	α spoglia hook angle	cod.
160	2,2	1,6	20	28	0°	270551602028
160	2,2	1,6	30	28	0°	270551603028
180	2,2	1,6	30	32	0°	270551803032
190	2,2	1,6	30	32	0°	270551903032
230	2,2	1,6	30	40	0°	270552303040
240	2,2	1,6	30	42	0°	270552403042
250	2,4	2,0	20	48	0°	270552502048
250	2,4	1,8	30	48	0°	270552503048
300	2,4	1,8	30	60	0°	270553003060
300	2,4	1,8	30	80	0°	270553003080
305	2,4	1,8	25,4	80	0°	270553052580
350	2,5	2,0	30	70	0°	270553503070
350	2,5	2,0	30	90	0°	270553503090

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.

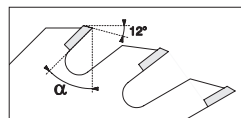
Velocità di taglio
Cutting speed



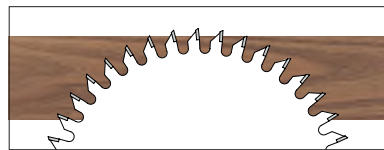
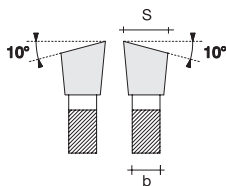
SEGHE CIRCOLARI PER LEGNO CON DENTI IN METALLO DURO PER SEGATRICI PORTATILI

Carbide tipped circular sawblades for wood for portable machines / Lames de scies avec dente carbure pour bois avec machines electroportatives
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.

Velocità di taglio
Cutting speed



Ø mm	s spessore thickness	b	d foro hole	z n. denti teeth	α spoglia hook angle	cod.
130	2,5	1,6	20	20	15°	270601302020
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	12°	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	12°	270601602040
160	2,5	1,6	30	40	12°	270601603040
170	2,5	1,6	30	24	15°	270601703024
170	2,5	1,6	30	40	12°	270601703040
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	12°	270601802040
180	2,5	1,6	30	40	12°	270601803040
190	2,5	1,6	20	24	15°	270601902024
190	2,5	1,6	30	24	15°	270601903024
200	2,8	1,8	30	24	15°	270602003024
200	2,8	1,8	30	48	12°	270602003048
210	2,8	1,8	30	24	15°	270602103024
210	2,8	1,8	30	48	12°	270602103048
230	2,8	1,8	30	24	15°	270602303024
230	2,8	1,8	30	48	12°	270602303048
235	2,8	1,8	30	24	15°	270602353024
235	2,8	1,8	30	48	12°	270602353048
240	2,8	1,8	30	24	15°	270602403024
240	2,8	1,8	30	48	12°	270602403048

Per avere indicazioni circa il numero di denti adatto alla lavorazione, conoscendo il diametro della sega circolare ϕ e lo spessore del materiale da lavorare L , è possibile utilizzare la seguente formula $Z = \phi \times \beta / L$, dove β è:
7=nel taglio di legno naturale in direzione parallela alle nervature
9=nel taglio di legno naturale in direzione trasversale alle nervature
11=nel taglio di legno duro in direzione trasversale alle nervature e pannelli compositi.

To choose the teeth suitable for processing, if you know the diameter ϕ of the circular saw blade and the thickness L of the material to be processed it is possible to use the following formula $Z = \phi \times \beta / L$, where β is:
7 = natural wood cutting, parallel to the ribs
9 = natural wood cutting, transverse to the ribs
11 = hard wood and composite panels, transverse to the ribs



- Raccomandate per il taglio su macchine portatili di legno, trucioli, 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 portatilis. 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

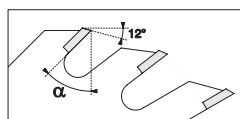
Carbide tipped circular sawblades for wood / Lames de scies circulaires carbure pour bois

Sierras circulares de metal duro para madera / Kreissägeblätter für Holz

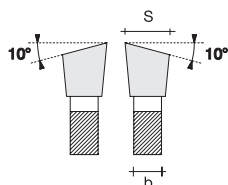
27070



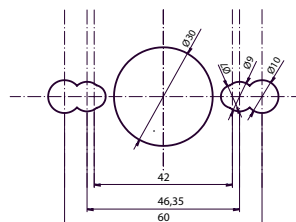
Ø mm	s spessore thickness	b	d foro hole	z n. denti teeth	α spoglia hook angle	cod.
200	3,2	2,2	30	64	10°	270702003064
250	3,2	2,2	30	40	10°	270702503040
250	3,2	2,2	30	60	10°	270702503060
250	3,2	2,2	30	80	10°	270702503080
280	3,2	2,2	30	64	10°	270702803064
280	3,2	2,2	30	80	10°	270702803080
300	3,2	2,2	30	48	12°	270703003048
300	3,2	2,2	30	60	12°	270703003060
300	3,2	2,2	30	72	10°	270703003072
300	3,2	2,2	30	96	10°	270703003096
305	3,2	2,2	30	72	10°	270703053072
305	3,2	2,2	30	96	10°	270703053096
350	3,5	2,5	30	54	12°	270703503054
350	3,5	2,5	30	72	12°	270703503072
350	3,5	2,5	30	84	10°	270703503084
400	3,8	2,8	30	64	12°	270704003064
400	3,8	2,8	30	80	12°	270704003080
400	3,8	2,8	30	96	10°	270704003096
450	4,0	2,8	30	72	12°	270704503072



Dentatura alternata
Alternated teeth



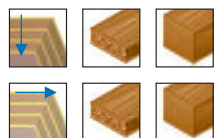
N°2 Ø 7x42 mm
N°2 Ø 9x46,35 mm
N°2 Ø 10x60 mm
Fori di trascinamento
Drive holes - Trousse guide
Orificios de arrastre



Velocità di taglio
Cutting speed



Applicazioni / Applications



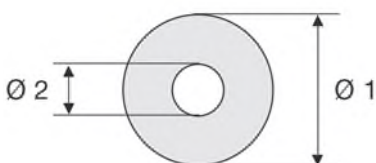
- Indicare per il taglio sia longitudinale che trasversale nel legno e derivati (agglomerati, stratificati) con seghe circolari a banco e troncatrici. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.
- Crosswise and lengthwise cutting in woods and chipboards for any professional use. The 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 en general. La sierra circular no puede salir de la pieza a cortar más de 10-15mm.
- Blätter für längs- und querschnitte bei allen Holztypen.

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



Rame
Copper

Ø 1 / Ø 2	pcs	cod.
35 / 30	3	270723530
35 / 25	3	270723525
35 / 20	3	270723520
32 / 30	3	270723230
32 / 25	3	270723225
32 / 20	3	270723220
30 / 25	3	270723025
30 / 20	3	270723020
30 / 18	3	270723018
30 / 16	3	270723016
25 / 20	3	270722520
20 / 16	3	270722016

Professional

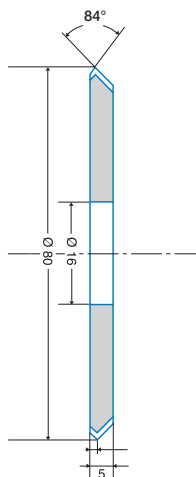
FRESE A DISCO PER CHIAVI

Milling cutters for keys / Fraises pour clefs

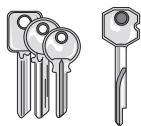
Fresas para llaves / Fräser für Schlüssel

26125

Frese biconiche Prismatic milling cutters



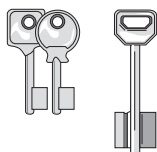
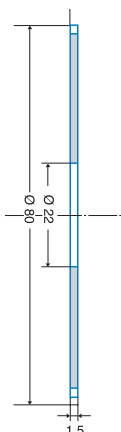
PER MACCHINE DUPLICATRICI DI CHIAVI: for key cutting machines:



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

Dimensioni Sizes	Z Denti / Teeth	cod.
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

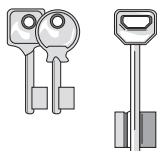
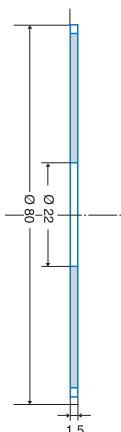
Frese a disco a 3 tagli Three cutting milling cutters



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.
Ø 80x1,5x22 HSS-CO8%	100	26125010
Ø 80x1,5x22 ASP 30 - CO8%	100	26125012
Ø 80x1,5x22 Metallo duro/Carbide	100	26125015

Frese a disco a taglio periferico Peripheral milling cutters



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.
Ø 80x1,5x22 HSS-CO8%	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%

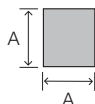
Cuchillas HSS de Cobalto 10% para tornio - HSS-CO 10% Stabstahl

HSS-CO 10%



Art. 26150

DIN 4964/B



AxA h14	L mm	cod.	€ cad/each
6 x 6	160	261500606160	16,357
6 x 6	200	261500606200	20,336
8 x 8	160	261500808160	23,202
8 x 8	200	261500808200	29,581
10 x 10	160	261501010160	40,268
10 x 10	200	261501010200	51,653
12 x 12	160	261501212160	52,339
12 x 12	200	261501212200	67,148
14 x 14	160	261501414160	62,130

AxA h14	L mm	cod.
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

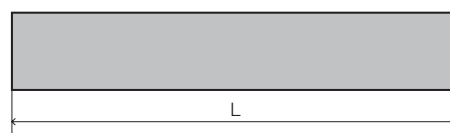
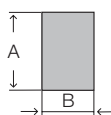


Ø h14	L mm	cod.	€ cad/each
4,0	100	2615204100	7,638
5,0	100	2615205100	8,173
6,0	100	2615206100	8,847
6,0	160	2615206160	12,829
6,0	200	2615206200	15,471
8,0	100	2615208100	12,503
8,0	160	2615208160	20,047
8,0	200	2615208200	22,747
10,0	100	2615210100	19,103
10,0	160	2615210160	35,727
10,0	200	2615210200	44,156

Ø h14	L mm	cod.
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	26,798
10 x 5	200	261541005200	30,955
12 x 6	200	261541206200	39,139
12 x 8	200	261541208200	48,300
15 x 4	200	261541504200	40,058
16 x 4	160	261541604160	33,446
16 x 4	200	261541604200	40,663

AxB h14	L mm	cod.
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

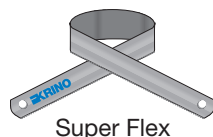


~UNI 4000

BIMETAL HSS-CO8% SUPERFLEX



HRC 66÷67
HRC 40÷42



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.
23001101	300x13x0,65 12"x1/2x0,025	18
23001100	300x13x0,65 12"x1/2x0,025	24
23001102	300x13x0,65 12"x1/2x0,025	32

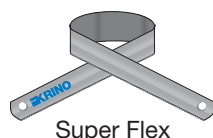
Features:

- 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



cod.	Dimensioni Sizes	Z N. denti / T.p.i.
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

Art. 21141 Self
Disponibile su richiesta / On demand

cod.	Dimensioni Sizes	Z N. denti / T.p.i.
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.
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.

Confezione / 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
23010060	300x13x0,65 12"x1/2"x0,025



- 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 bonded 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.

Packaging 10 pcs

Art. 23011 Self

Disponibile su richiesta / On demand

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
23005050	300 12"



- 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.

Packaging 10 pcs

Art. 23006 Self

Disponibile su richiesta / On demand

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

Carbide grit particles permanently bonded 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 seghetti 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®"



HCS



cod.	Dimensioni Sizes	z tpi
23012100	150 mm 6"	24

Packaging 10 pcs

Art. 23012 Self

Disponibile su richiesta / On demand

LAME A NASTRO BIMETALLICHE MULTIUSO - HSS AISI M42

Bimetal band saw blades - HSS AISI M42 / Lames de scie à ruban bimétalliques - HSS AISI M42

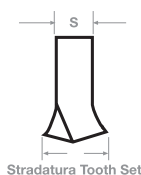
Hojas de sierra de cinta bimetalicas - HSS AISI M42 / Bandsägeblätter HSS AISI M42

LAMA MULTIUSO - Multipurpose blade

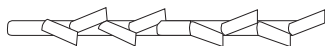
25010



Dentatura / Teeth
AISI M42 - 8%Co
HRC: 67/69
Strip di supporto / Body
HRC: 44/46



Normale dritta - Straight raker set



la più utilizzata
most used

Moduli dentature a passo variabile

Variable pitch modules
 Modules de dentures à pas variable
 Módulos de dentaduras a paso variable

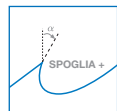
Variable - Variable



Moduli dentature a passo costante

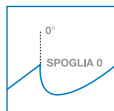
Constant pitch modules
 Modules de dentures à pas constante
 Módulos de dentaduras a paso constante

Fissa - Regular



SPOGLIA POSITIVA 8° - Positive rake 8°

- **Dentatura variabile - variable tooth**
 (z - tpi 1,4/2÷5/8)
- **Dentatura costante - regular tooth**
 (z - tpi 2÷6)



SPOGLIA NEUTRA - Standard straight rake

- **Dentatura variabile - variable tooth**
 (z - tpi 6/10÷14/18)
- **Dentatura costante - regular tooth**
 (z - tpi 8÷18)

- Utilizzare su segatrici a ciclo di taglio (manuale o automatico), in tutti i generi di lavorazioni artigianali ed industriali, per il taglio di sezioni piene ed interrotte, singole o disposte a fascio, di acciai fino a 1200 N/mm², acciai strutturali, acciai automatici, acciai al carbonio, ghise lamellari e sferoidali, metalli non ferrosi (alluminio, rame,...) materie plastiche, materiali non metallici in genere.
- Use on cutting-cycle saws (manual or automatic), in all kinds of artisanal and industrial processes, for cutting solid and interrupted sections, single or arranged in bundles, of steels up to 1200 N/mm², structural steels, automatic steels, carbon steels, lamellar and spheroidal cast irons, non-ferrous metals (aluminum, copper,...) plastics, non-metallic materials in general.
- Utilisation sur scies à découper (manuelles ou automatiques), dans tous types de procédés artisanaux et industriels, pour la découpe de profilés pleins et discontinus, simples ou disposés en faisceaux, en aciers jusqu'à 1200 N/mm², aciers de construction, aciers automatiques, aciers au carbone, fontes lamellaires et sphéroïdales, métaux non ferreux (aluminium, cuivre,...), matières plastiques non métalliques en général.
- Uso en sierras de corte (manuales o automáticas), en todo tipo de procesos artesanales e industriales, para cortar secciones sólidas e interrumpidas, simples o dispuestas en haces, de aceros de hasta 1200 N/mm², aceros estructurales, aceros automáticos, aceros al carbono, fundición esferoidal y esferoidal, metales no ferrosos (aluminio, cobre,...) plásticos, materiales no metálicos en general.



Dimensioni (Altezza x Spessore)		Passo dentatura (Moduli a passo costante e variabile in Tpi)																
Dimensions (Width x Thickness)		Tooth pitch (Constant and variable pitches modules in Tpi)																
mm		2	3	4	6	8	10	14	18	1,4/2	2/3	3/4	4/6	5/8	6/10	8/12	10/14	14/18
13 x 0,65			X	X	X		X	X	X					X	X	X	X	X
13 x 0,90			X	X	X		X	X						X	X	X	X	
20 x 0,90			X	X	X		X	X					X	X	X	X	X	
27 x 0,90		X	X	X	X	X		X			X	X	X	X	X	X	X	
34 x 1,10											X	X	X	X	X	X		
41 x 1.30										X	X	X	X	X				

Dentatura a passo costante su richiesta / Constant pitch modules on demand

LAME A NASTRO BIMETALLICHE PER CARPENTERIA - HSS AISI M42

Bimetal band saw blades - HSS AISI M42 / Lames de scie à ruban bimétalliques - HSS AISI M42

Hojas de sierra de cinta bimetalicas - HSS AISI M42 / Bandsägeblätter HSS AISI M42

Dente rinforzato - Reinforced tooth
SPECIALE CARPENTERIA - Carpentry special blade

25016

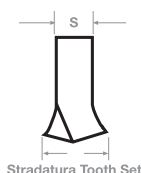


Dentatura / Teeth
AISI M42 - 8%Co
HRC: 67/69
Strip di supporto / Body
HRC: 44/46

Moduli dentature a passo variabile

Variable pitch modules
Modules de dentures à pas variable
Módulos de dentaduras a paso variable

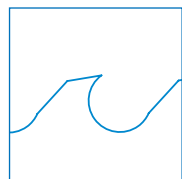
Variable - Variable



Stradatura maggiorata - Extra set



Profilo a dente rinforzato / Reinforced tooth

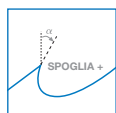


Dente a **profilo rinforzato**, per una netta riduzione dei fenomeni di rottura dei denti ed una eccezionale resistenza agli impatti e alle vibrazioni.

Tooth with reinforced profile, for a clear reduction of the breaking phenomena of the teeth and an exceptional resistance to impacts and vibrations.

Dent à profil renforcé, pour une réduction nette des phénomènes de rupture des dents et une résistance exceptionnelle aux chocs et aux vibrations.

Diente con perfil reforzado, para una clara reducción de los fenómenos de rotura de los dientes y una excepcional resistencia a los impactos y vibraciones.



SPOGLIA POSITIVA 8° - Positive rake 8°

- **Dentatura variabile - variable tooth**
(z - tpi 1,4/2÷5/8)

- **Dentatura costante - regular tooth**
(z - tpi 2÷6)

- Utilizzare su segatrici a ciclo di taglio (manuale o automatico), nelle lavorazioni di carpenteria dove necessiti una lama estremamente resistente e versatile, atta a tagliare le più diverse forme e spessori di materiali. Dedicata prevalentemente al taglio di sezioni interrotte (tubi, profilati, ecc.) ma anche di sezioni piene, singole o disposte a fascio di acciai fino a 1200 N/mm², acciai strutturali, acciai automatici, acciai al carbonio.
- Use on cutting machines (manual or automatic), in carpentry work where you need an extremely resistant and versatile blade, able to cut the most different shapes and thicknesses of materials. Dedicated mainly to cutting interrupted sections (pipes, profiles, etc.) but also of solid, single or beam sections of steels up to 1200 N/mm², structural steels, automatic steels, carbon steels.
- Utiliser sur des machines à découper (manuelles ou automatiques), dans des travaux de menuiserie où vous avez besoin d'une lame extrêmement résistante et polyvalente, capable de couper les formes et les épaisseurs les plus différentes des matériaux. Dédiés principalement à la découpe de sections interrompues (tubes, profilés, etc.) mais aussi de sections pleines, simples ou en poutres d'aciers jusqu'à 1200 N/mm², d'aciers de construction, d'aciers automatiques, d'aciers au carbone.
- Se usa en máquinas de corte (manuales o automáticas), en trabajos de carpintería donde se necesita una cuchilla extremadamente resistente y versátil, capaz de cortar las formas y grosores de materiales más diferentes. Dedicado principalmente al corte de secciones interrumpidas (tuberías, perfiles, etc.) pero también de secciones sólidas, simples o de viga de aceros de hasta 1200 N/mm², aceros estructurales, aceros automáticos, aceros al carbono.



Dimensioni (Altezza x Spessore) Dimensions (Width x Thickness)	Passo dentatura (Moduli a passo costante e variabile in Tpi) Toothing pitch (Constant and variable pitches modules in Tpi)				
mm	2/3	3/4	4/6	5/7	8/11
13 x 0,65					X
13 x 0,90					X
20 x 0,90				X	X
27 x 0,90	X	X	X	X	X
34 x 1,10	X	X	X	X	
41 x 1,30	X	X	X		

LAME A NASTRO BIMETALLICHE AD ALTE PRESTAZIONI - HSS AISI M42

Bimetal band saw blades - HSS AISI M42 / Lames de scie à ruban bimétalliques - HSS AISI M42

Hojas de sierra de cinta bimetalicas - HSS AISI M42 / Bandsägeblätter HSS AISI M42

ALTE PRESTAZIONI - High performance special blade

25011



Dentatura / Teeth
AISI M42 - 8%Co
HRC: 68/69
Strip di supporto / Body
HRC: 48/50
(Alto contenuto di cromo / High chrome)

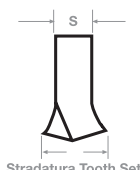
Moduli dentature a passo variabile

Variable pitch modules

Modules de dentures à pas variable

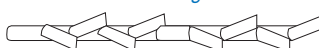
Módulos de dentaduras a paso variable

Variable - Variable



Stradatura Tooth Set

Normale dritta - Straight raker set



la più utilizzata
most used

Moduli dentature a passo costante

Constant pitch modules

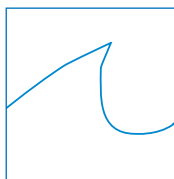
Modules de dentures à pas constante

Módulos de dentaduras a paso constante

Fissa - Regular



Profilo a dente curvilineo / Curvilinear tooth

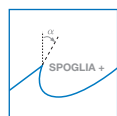


Dente curvilineo che garantisce una esecuzione di taglio efficace e lineare, a beneficio di un migliore avanzamento.

Curvilinear tooth that guarantees an effective and linear cutting execution to fit a better feed.

Dent curviligne qui garantit une coupe efficace et linéaire pour une meilleure alimentation.

Diente curvilineo que garantiza una ejecución de corte eficaz y lineal para adaptarse a una mejor alimentación.



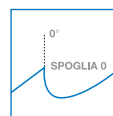
SPOGLIA ESTREMAMENTE POSITIVA 12° - EXTREMELY Positive rake 12°

- Dentatura variabile - variable tooth

(z - tpi 0,75/1,25÷5/8)

- Dentatura costante - regular tooth

(z - tpi 2÷6)



SPOGLIA NEUTRA - Standard straight rake

- Dentatura variabile - variable tooth

(z - tpi 6/10÷10/14)

- Dentatura costante - regular tooth

(z - tpi 10÷18)

- Utilizzare su segatrici a ciclo di taglio (manuale o automatico), in tutti i generi di lavorazioni artigianali ed industriali dove necessiti una elevata resa prestazionale e vita operativa dell'utensile, per il taglio di sezioni piene ed interrotte, singole o disposte a fascio, in acciai fino a 1300 N/mm², acciai strutturali, acciai automatici, acciai al carbonio, acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai inossidabili, ghise lamellari e sferoidali, metalli non ferrosi come alluminio e rame, materie plastiche, materiali non metallici in genere.

- Use on cutting-cycle saws (manual or automatic), in all kinds of artisan and industrial processes where a high performance yield and working life of the tool is required, for cutting full and interrupted sections, single or bundled, in steels up to 1300 N/mm², structural steels, automatic steels, carbon steels, tempered steels, bearing steels, steels for molds, stainless steels, lamellar and spheroidal cast irons, non-ferrous metals such as aluminum and copper, plastics, non-metallic materials in general.

- Utilisation des commandes de sauvegarde des commandes manuelles ou automatiques, en règle générale, pour les fabricants et les fabricants, pour les besoins de l'industrie, pour la qualité de la vie, des déchets pour les personnes handicapées, pour les personnes ayant une déficience intellectuelle in acciaio fino a 1300 N/mm², acciai strutturali, acciai automatici, acciai al carbonio, acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai in carbonidabili, ghise lamellari e sferoidali, metalli non ferrosi come allame e rame, matricia materiali non metallici in genere.

- Se utiliza en sierras de ciclo de corte (manuales o automáticas), en todo tipo de procesos artesanales e industriales donde se requiere un alto rendimiento de rendimiento y vida útil de la herramienta, para cortar secciones completas e interrumpidas, simples o agrupadas, en aceros hasta 1300 N/mm², aceros estructurales, aceros automáticos, aceros al carbono, aceros templados, aceros para cojinetes, aceros para moldes, aceros inoxidables, hierros laminados y esferoidales, metales no ferrosos como aluminio y cobre, plásticos, Materiales no metálicos en general.



Dimensioni (Altezza x Spessore)	Passo dentatura (Moduli a passo costante e variabile in Tpi)															
	Toothing pitch (Constant and variable pitches modules in Tpi)															
	mm	2	3	4	6	10	14	18	0,75/1,25	1/1,4	1,4/2	2/3	3/4	4/6	5/8	6/10
6 x 0,65					X											
6 x 0,90				X	X	X	X									
10 x 0,65				X	X											
10 x 0,90				X	X	X	X									
13 x 0,65			X	X	X	X	X	X							X	X
13 x 0,90			X	X	X	X	X								X	X
20 x 0,90			X	X	X	X	X							X	X	X
27 x 0,90							X					X	X	X	X	X
34 x 1,10										X	X	X	X	X	X	X
41 x 1,30										X	X	X	X	X	X	
54 x 1,30										X	X	X	X	X		
54 x 1,60									X	X	X	X	X	X		

LAME A NASTRO BIMETALLICHE AD ALTE PRESTAZIONI - METALLURGIA DELLE POLVERI

Bimetal band saw blades - HSS POWDER METAL / Lames de scie à ruban bimétalliques - HSS POWDER METAL

Hojas de sierra de cinta bimetalicas - Bandsägeblätter HSS POWDER METAL

ALTE PRESTAZIONI - High performance special blade

25018



Dentatura / Teeth
ASP Metallurgia delle polveri
HRC: 70/71
Strip di supporto / Body
HRC: 48/50
(Alto contenuto di cromo / High chrome)

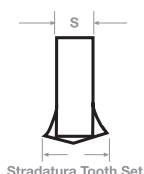


Immagine al microscopio
 Microscope picture

Moduli dentature a passo variabile

Variable pitch modules
 Modules de dentures à pas variable
 Módulos de dentaduras a paso variable

Variable - Variable

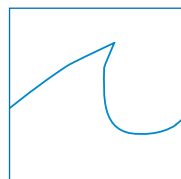


Stradatura Tooth Set

Triplo truciolo - Triple chip



Profilo a dente di produzione / Production tooth



Speciale geometria del dente realizzato con acciaio superrapido e metallurgia delle polveri. Ha profilo PRODUCTION TOOTH e un'ampia gola di scarico XL.
 Special tooth geometry made of high speed steel and powder metallurgy. It has PRODUCTION TOOTH profile and a wide XL discharge groove.
 Géométrie spéciale des dents en acier ultrarapide et en métallurgie des poudres. Il a un profil PRODUCTION TOOTH et une large rainure de refoulement XL.
 Geometría especial del diente hecha de acero súper rápido y metalurgia de polvos. Tiene un perfil de PRODUCCIÓN DENTAL y una ranura de descarga XL ancha.



SPOGLIA ESTREMAMENTE POSITIVA 12° - EXTREMELY Positive rake 12°

- **Dentatura variabile - variable tooth**
 (z - tpi 0,75/1,25÷5/8)

- Utilizzare su segatrici prevalentemente a ciclo di taglio automatico, in tutte le lavorazioni particolarmente gravose dove necessiti una lama che garantisca una elevata, costante e duratura resa prestazionale. Dedicata al taglio di sezioni piene ma anche interrotte (di medio o forte spessore), singole o eventualmente disposte affiancate in acciai con R < 1400 N/mm², acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai per lavorazioni a freddo e a caldo, acciai inossidabili, acciai inox resistenti al calore (Duplex®, Super Duplex®), titanio, leghe speciali.
- Use on sawing machines mainly with automatic cutting cycle, in all particularly demanding processes where you need a blade that guarantees a high, constant and long-lasting performance. Dedicated to the cutting of solid or interrupted sections (of medium or strong thickness), single or possibly placed side by side in steels with R < 1400 N/mm², tempered steels, bearing steels, steels for molds, steels for cold working and hot, stainless steels, heat resistant stainless steels (Duplex®, Super Duplex®), titanium, special alloys.
- Utilisez sur les scies principalement avec le cycle de coupe automatique, dans tous les processus particulièrement exigeants où vous avez besoin d'une lame garantissant des performances élevées, constantes et durables. Dédié à la coupe de sections pleines ou interrompues (d'épaisseur moyenne ou forte), simples ou éventuellement juxtaposées dans des aciers de R < 1400 N/mm², aciers trempés, aciers pour roulements, aciers de moules, aciers de travail à froid et aciers chauds et inoxydables, aciers inoxydables résistants à la chaleur (Duplex®, Super Duplex®), titane, alliages spéciaux.
- Se utiliza en máquinas de corte principalmente con ciclos de corte automático, en todos los procesos especialmente exigentes en los que necesita una cuchilla que garantice un rendimiento alto, constante y duradero. Dedicados al corte de secciones sólidas o interrumpidas (de espesor medio o fuerte), individuales o posiblemente colocadas lado a lado en aceros con R < 1400 N/mm², aceros templados, aceros para rodamientos, aceros para moldes, aceros para el trabajo en frío y Hot, aceros inoxidables, aceros inoxidables resistentes al calor (Duplex®, Super Duplex®), titanio, aleaciones especiales.



Dimensioni (Altezza x Spessore)		Passo dentatura (Moduli a passo costante e variabile in Tpi)					
Dimensions (Width x Thickness)		Toothing pitch (Constant and variable pitches modules in Tpi)					
mm		0,75/1,25	1/1,4	1,4/2	2/3	3/4	4/6
27 x 0,90					X	X	X
34 x 1,10			X	X	X	X	X
41 x 1,30			X	X	X	X	
54 x 1,60		X	X	X	X	X	

FRESE ROTATIVE IN HSS

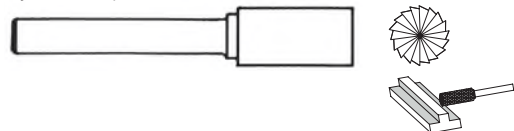
HSS rotary files / Fraises rotatives HSS / Fresas rotativas en HSS / HSS Fräserstifte

26001 26003

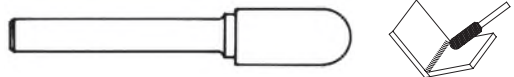


Art. 26004 Self
Disponibile su richiesta / On demand

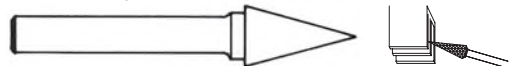
Cilindrica con taglio frontale
Cylindrical shape with end cut



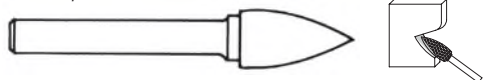
Cilindrica con testa sferica
Cylindrical shape with radius end



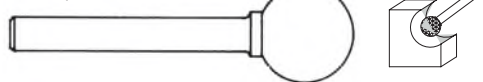
Conica a punta
Pointed tree shape



Ogiva a punta
Tree shape



Sferica
Ball shape



26001 Z2

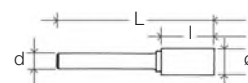


TAGLIO BASTARDO per leghe leggere, rame, ottone, bronzo, acciaio dolce.
Velocità consigliata: 220÷250 m/min.
For cutting light alloys, copper, brass, bronze, mild steel.
Cutting speed: 220÷250 m/min.

26003 Z3



Taglio mezzo dolce per acciai, ghisa. Vt 80÷220 m/min.
For cutting steel, cast iron. Cutting speed 80÷220 m/min.



HRC ≈ 63

26001 Z2

26003 Z3

Ø	/	L	d	cod.	cod.
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



5 pcs Ø10 Z2 26008203

5 pcs Ø10 Z3 26008201

5 pcs Ø12 Z2 26008204

5 pcs Ø12 Z3 26008200



Abs

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

26008401

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

26008402



Abs

5 pcs Ø10 Z3
Tutte le forme - All the shapes

26008404

5 pcs Ø12 Z3
Tutte le forme - All the shapes

26008405



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

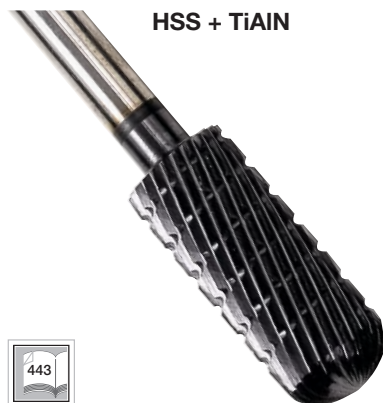
26008501

FRESE ROTATIVE HSS RIVESTITE AL TiAlN

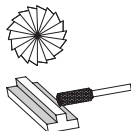
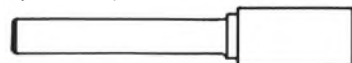
HSS TiAlN rotary files / Fraises rotatives HSS revêtues au TiAlN

Fresas rotativas HSS con recubrimiento de TiAlN - HSS Fräserstifte TiAlN-beschichtet

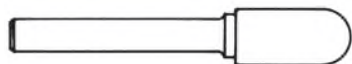
26031 26032



Cilindrica con taglio frontale
Cylindrical shape with end cut



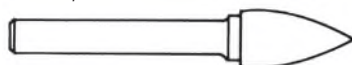
Cilindrica con testa sferica
Cylindrical shape with radius end



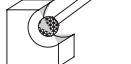
Conica a punta
Pointed tree shape



Ogiva a punta
Tree shape



Sferica
Ball shape



5 pcs Ø10 Z2 26035203

5 pcs Ø10 Z3 26035201

5 pcs Ø12 Z2 26035204

5 pcs Ø12 Z3 26035200



Abs

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

26035401

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

26035402



Abs

5 pcs Ø10 Z3
Tutte le forme - All the shapes

26035404

5 pcs Ø12 Z3
Tutte le forme - All the shapes

26035405



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

26035501

26031 Z2

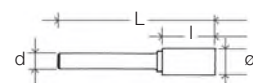


TAGLIO BASTARDO per leghe leggere, rame, ottone, bronzo, acciaio dolce.
Velocità consigliata: 220÷250 m/min.
For cutting light alloys, copper, brass, bronze, mild steel.
Cutting speed: 220÷250 m/min.

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.	cod.
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

FRESE ROTATIVE IN METALLO DURO CON TAGLI HM3 E HM4

HM3 and HM4 cut carbide rotary files / Fraises rotatives carbure avec HM3 et HM4 coupants

Fresas rotativas de metal duro con HM3 y HM4 cortantes / Hartmetall Fräserstifte HM3 und HM4

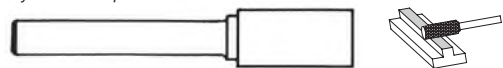
26015 26020

Metallo duro K20 / Solid carbide K20

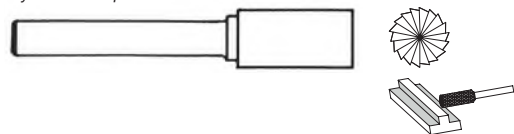
Grana fine / Fine grain
Utilizzo universale / Universal uses



Cilindrica con fronte liscia
Cylindrical shape



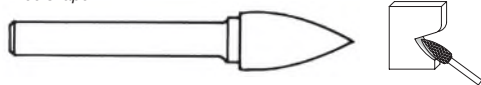
Cilindrica con taglio frontale
Cylindrical shape with end cut



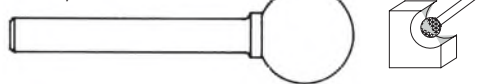
Conica a punta
Pointed tree shape



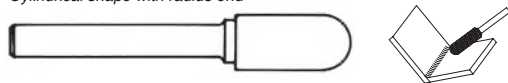
Ogiva a punta
Tree shape



Sferica
Ball shape



Cilindrica con testa sferica
Cylindrical shape with radius end



Confezione
Packaging



Applicazioni
Applications



26015 HM3



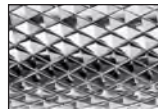
TAGLIO STANDARD per acciaio, acciaio temprato, ghisa, cordon di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti.

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



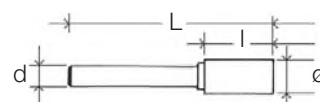
TAGLIO INCROCIATO per acciaio trattato, acciaio inox, materiali metallici in genere. Vibrazioni ridotte, buona finitura superficiale, ottimi rendimenti.

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	/	L	d	cod.	cod.
*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

* Microfresa / Micro rotary files

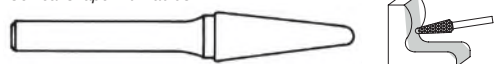


FRESE ROTATIVE IN METALLO DURO CON TAGLI HM3 E HM4

HM3 and HM4 cut carbide rotary files / Fraises rotatives carbure avec HM3 et HM4 coupants

Fresas rotativas de metal duro con HM3 y HM4 cortantes / Hartmetall Fräserstifte HM3 und HM4

Conica a punta arrotondata
Conical shape with radius



Ogiva a punta arrotondata o a fiamma
Tree shape with radius



A goccia
Drop shape



				26015 HM3	26020 HM4
Ø	/	L	d	cod.	cod.
*3	16	38	3	2601500703	2602000703
4	14	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



5 pcs Ø10 HM3 26030206

5 pcs Ø10 HM4 26030203

5 pcs Ø12 HM3 26030207

5 pcs Ø12 HM4 26030202



Abs

10 pcs Ø10 HM3+HM4
Tutte le forme - All the shapes

26030401

10 pcs Ø12 HM3+HM4
Tutte le forme - All the shapes

26030402

5 pcs Ø8 HM4
5 pcs Ø12 HM4

26030403



Abs

5 pcs Ø10 HM4



26030404

5 pcs Ø12 HM4



26030405



45 pcs
Ø 6-8-10-12-16 HM4

26030502

FRESE ROTATIVE IN METALLO DURO RIVESTITE AL TiAlN CON TAGLI HM3 E HM4

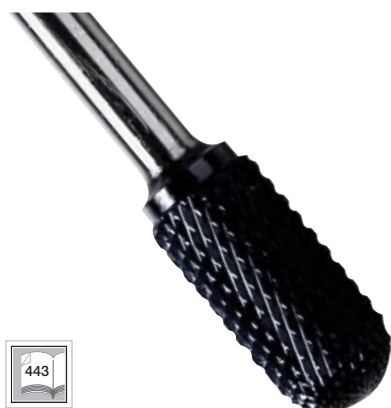
HM3 and HM4 cut carbide rotary files TiAlN coated / Fraises rotatives au carbure revêtues au TiAlN avec HM3 et HM4 coupants

Fresas rotativas de metal duro con recubrimiento de TiAlN con HM3 y HM4 cortantes / Hartmetall Fräserstifte TiAlN-beschichtet HM3 und HM4

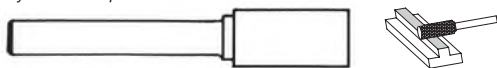
26033 26034

K20 + TiAlN / Carbide K20 + TiAlN

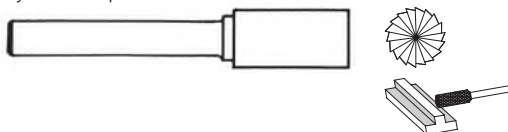
Grana fine / Fine grain
Utilizzo universale / Universal uses



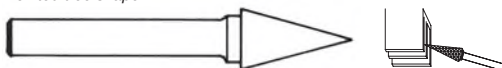
Cilindrica con fronte liscia
Cylindrical shape



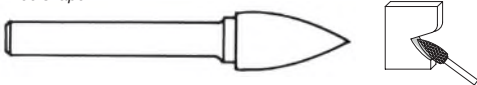
Cilindrica con taglio frontale
Cylindrical shape with end cut



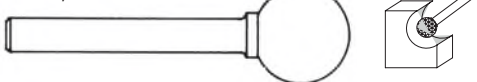
Conica a punta
Pointed tree shape



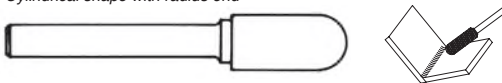
Ogiva a punta
Tree shape



Sferica
Ball shape



Cilindrica con testa sferica
Cylindrical shape with radius end



Applicazioni
Applications

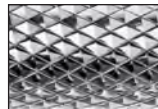


26033 HM3



TAGLIO STANDARD per acciaio, acciaio temprato, ghisa, cordon 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.

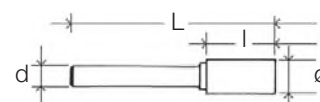
26034 HM4



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	/	L	d	cod.	cod.
*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

* Microfresa / Micro rotary files

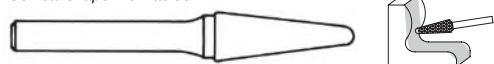


FRESE ROTATIVE IN METALLO DURO RIVESTITE AL TiAlN CON TAGLI HM3 E HM4

HM3 and HM4 cut carbide rotary files TiAlN coated / Fraises rotatives au carbure revêtues au TiAlN avec HM3 et HM4 coupants

Fresas rotativas de metal duro con recubrimiento de TiAlN con HM3 y HM4 cortantes / Hartmetall Fräserstifte TiAlN-beschichtet HM3 und HM4

Conica a punta arrotondata
Conical shape with radius



Ogiva a punta arrotondata o a fiamma
Tree shape with radius



A goccia
Drop shape



				26033 HM3	26034 HM4
Ø	/	L	d	cod.	cod.
*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



5 pcs Ø10 HM3 26030210

5 pcs Ø10 HM4 26030211

5 pcs Ø12 HM3 26030212

5 pcs Ø12 HM4 26030213



Abs

10 pcs Ø10 HM3+HM4

Tutte le forme - All the shapes

26030410

10 pcs Ø12 HM3+HM4

Tutte le forme - All the shapes

26030411



Abs

5 pcs Ø10 HM4



26030412

5 pcs Ø12 HM4



26030413



45 pcs Ø 6-8-10-12-16 HM4

Tutte le forme - All the shapes

26030504

FRESE ROTATIVE IN METALLO DURO CON TAGLIO HM3 PLUS

HM3 PLUS cut carbide rotary files / Fraises rotatives carbure avec HM3 PLUS coupant

Fresas rotativas de metal duro con HM3 PLUS cortantes / Hartmetall Fräserstifte HM3 PLUS

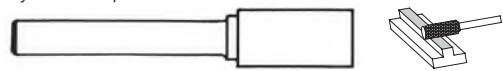
26016

Metallo duro K20 / Solid carbide K20

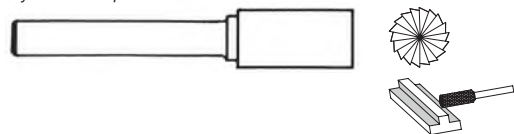
Grana fine / Fine grain
Utilizzo universale / Universal uses



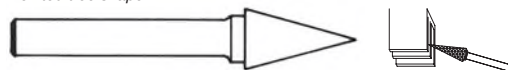
Cilindrica con fronte liscia
Cylindrical shape



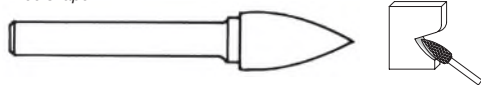
Cilindrica con taglio frontale
Cylindrical shape with end cut



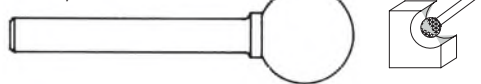
Conica a punta
Pointed tree shape



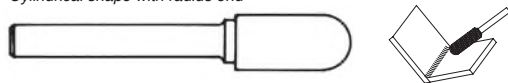
Ogiva a punta
Tree shape



Sferica
Ball shape



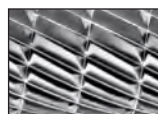
Cilindrica con testa sferica
Cylindrical shape with radius end



Applicazioni
Applications



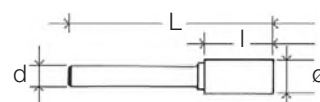
26016 HM3 PLUS



TAGLIO STANDARD CON ROMPIRUCIOLO per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti. Velocità consigliata: 450÷600 m/min.
Standard cut with chip breaker in low and high tensile steel, welded points, metals. Cutting speed: 450÷600 m/min.

Ø	/	L	d	cod.
*3	16	38	3	2601600103
4	14	50	6	2601600104
6	18	50	6	2601600106
8	18	63	6	2601600108
10	20	65	6	2601600110
12	25	70	6	2601600112
16	25	70	6	2601600116
*3	16	38	3	2601600203
4	14	50	6	2601600204
6	18	50	6	2601600206
8	18	63	6	2601600208
10	20	65	6	2601600210
12	25	70	6	2601600212
16	25	70	6	2601600216
*3	16	38	3	2601600303
4	14	50	6	2601600304
6	18	50	6	2601600306
8	18	63	6	2601600308
10	20	65	6	2601600310
12	25	70	6	2601600312
16	25	70	6	2601600316
*3	16	38	3	2601600403
4	14	50	6	2601600404
6	18	50	6	2601600406
8	18	63	6	2601600408
10	20	65	6	2601600410
12	25	70	6	2601600412
16	25	70	6	2601600416
*3	3	38	3	2601600503
4	4	50	6	2601600504
6	5	50	6	2601600506
8	7	63	6	2601600508
10	9	65	6	2601600510
12	10	70	6	2601600512
16	14	70	6	2601600516
*3	16	38	3	2601600603
4	14	50	6	2601600604
6	18	50	6	2601600606
8	18	63	6	2601600608
10	20	65	6	2601600610
12	25	70	6	2601600612
16	25	70	6	2601600616

* Microfresa / Micro rotary files

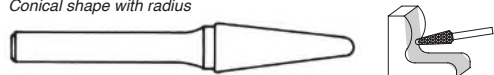


FRESE ROTATIVE IN METALLO DURO CON TAGLIO HM3 PLUS

HM3 PLUS cut carbide rotary files / Fraises rotatives carbure avec HM3 PLUS coupant

Fresas rotativas de metal duro con HM3 PLUS cortantes / Hartmetall Fräserstifte HM3 PLUS

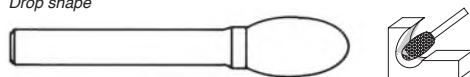
Conica a punta arrotondata
Conical shape with radius



Ogiva a punta arrotondata o a fiamma
Tree shape with radius



A goccia
Drop shape



Ø	/	L	d	cod.
*3	16	38	3	2601600703
4	14	50	6	2601600704
6	18	50	6	2601600706
8	18	63	6	2601600708
10	20	65	6	2601600710
12	25	70	6	2601600712
16	25	70	6	2601600716
*3	16	38	3	2601600803
4	14	50	6	2601600804
6	18	50	6	2601600806
8	18	63	6	2601600808
10	20	65	6	2601600810
12	25	70	6	2601600812
16	25	70	6	2601600816
*3	6	38	3	2601600903
4	6	50	6	2601600904
6	10	50	6	2601600906
8	13	58	6	2601600908
10	16	61	6	2601600910
12	20	65	6	2601600912
16	25	70	6	2601600916



Abs

5 pcs Ø10



26030416

5 pcs Ø12 HM4



26030417

5 pcs Ø8

5 pcs Ø12



26030415

FRESE ROTATIVE IN METALLO DURO, SERIE LUNGA

Carbide rotary files, long series - Fraises rotatives carbure, série longue

Fresas rotativas de metal duro, serie larga - Hartmetall Fräserstifte, lange Ausführung

26028 26027

Metallo duro K20 / Solid carbide K20

Grana fine / Fine grain
Utilizzo universale / Universal uses



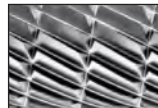
26028 HM4



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.

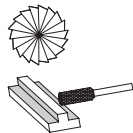
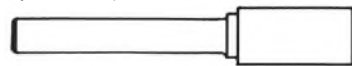
26027 HM3 PLUS



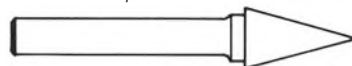
TAGLIO STANDARD CON ROMPIRUCIOLO per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti. Velocità consigliata: 450÷600 m/min.

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

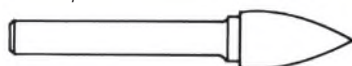
Cilindrica con taglio frontale
Cylindrical shape with end cut



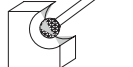
Conica a punta
Pointed tree shape



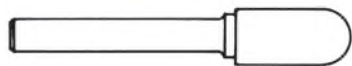
Ogiva a punta
Tree shape



Sferica
Ball shape



Cilindrica con testa sferica
Cylindrical shape with radius end



				26028 HM4	26027 HM3 PLUS
Ø	/	L	d	cod.	cod.
8	18	120	6	2602800208	2602700208
12	25	120	6	2602800212	2602700212
8	18	120	6	2602800308	2602700308
12	25	120	6	2602800312	2602700312
8	18	120	6	2602800408	2602700408
12	25	120	6	2602800412	2602700412
8	7	120	6	2602800508	2602700508
12	10	120	6	2602800512	2602700512
8	18	120	6	2602800608	2602700608
12	25	120	6	2602800612	2602700612

Confezione
Packaging



Applicazioni
Applications



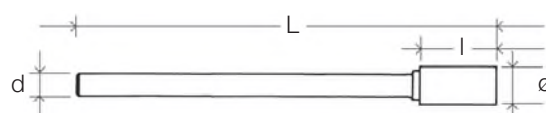
Inox



Acciaio
Steel



Metals



FRESE ROTATIVE IN METALLO DURO, SPECIALE PER ALLUMINIO

Cobalt twist drills ground from the solid / Forets cylindriques au cobalt entièrement rectifiés

Broca helicoidal rectificada de cobalto / Kobalt Spiralbohrer

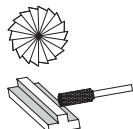
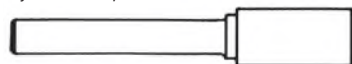
26025

Metallo duro K20 / Solid carbide K20

Grana fine / Fine grain
Utilizzo universale / Universal uses

Alu

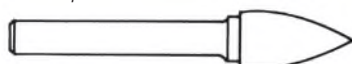
Cilindrica con taglio frontale
Cylindrical shape with end cut



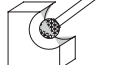
Conica a punta
Pointed tree shape



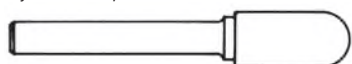
Ogiva a punta
Tree shape



Sferica
Ball shape



Cilindrica con testa sferica
Cylindrical shape with radius end



HM1



TAGLIO ALLUMINIO adatto a alluminio, magnesio, plastiche e gomma dura. Buon rendimento con un alto tasso di asportazione del materiale, che previene l'incollaggio dei trucioli.

ALUMINIUM CUT suitable for cutting into aluminium, magnesium, plastic and hard rubber. High efficiency with good removal rate, thus preventing the chips clogging the tool.

				26025 Serie corta / Short serie	26026 L=120mm Serie lunga / Long serie
Ø	/	L	d	cod.	cod.
6	18	61	6	2602500206	-
8	18	65	6	2602500208	2602600208
10	20	65	6	2602500210	-
12	25	70	6	2602500212	2602600212
16	25	70	6	2602500216	-
6	18	63	6	2602500306	-
8	18	65	6	2602500308	2602600308
10	20	65	6	2602500310	-
12	25	70	6	2602500312	2602600312
16	25	70	6	2602500316	-
6	18	63	6	2602500406	-
8	18	65	6	2602500408	2602600408
10	20	65	6	2602500410	-
12	25	70	6	2602500412	2602600412
16	25	70	6	2602500416	-
6	5	50	6	2602500506	-
8	7	52	6	2602500508	2602600508
10	9	54	6	2602500510	-
12	10	56	6	2602500512	2602600512
16	14	60	6	2602500516	-
6	18	61	6	2602500606	-
8	18	65	6	2602500608	2602600608
10	20	65	6	2602500610	-
12	25	70	6	2602500612	2602600612
16	25	70	6	2602500616	-

Confezione
Packaging



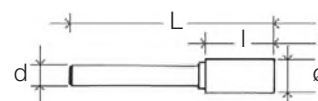
Applicazioni
Applications



5 pcs Ø10



26030430



fam. code	img.	
25012		BIM M51
25020		BIM M42+TiN
25015		BIM M42 Alu
23100 23120 23110 23109	 23100999 *ALTERNATE SAW FOR WOOD T.B. 50X2.5 23100010 *ALTERNATE SAW FOR WOOD T.B 50X1,2 23100011 *ALTERNATE SAW FOR WOOD T.B 50X2,5 23100007 *ALTERNATE SAW FOR WOOD T.B 70X4 23100108 ALTERNATE SAW FOR WOOD BOSCH CONF.3PZ 126X4 TG STRAIGHT 23100101 ALTERNATE SAW FOR WOOD BOSCH CONF.3PZ 50X2 TG CURVED 23100103 ALTERNATE SAW FOR WOOD BOSCH CONF.3PZ 75X2,5 TG DR.REV 23100102 ALTERNATE SAW FOR WOOD BOSCH CONF.3PZ 75X2,5 TG STRAIGHT	HCS HSS HM BIM HSS HCS HSS HM BIM HSS HCS HSS HM BIM HSS HCS HSS HM BIM HSS
23150 23160 23165 23168	 23150006 *ALTERNATIVE SAWS FOR WOOD EGHETTO B.D. 44X1,2 23150004 *ALTERNATIVE SAWS FOR WOOD EGHETTO B.D. 44X2.5 23150007 *ALTERNATE SAW FOR WOOD B.D 46X2,5 23150100 ALTERNATE SAW FOR WOOD B.D. CONF.3PZ 52X1.3 TG CURVED 23150101 ALTERNATE SAW FOR WOOD B.D. CONF.3PZ 62X3 TG STRAIGHT 23150103 ALTERNATE SAW FOR WOOD B.D. CONF.3PZ 74X3 TG STRAIGHT 23150106 ALTERNATE SAW FOR WOOD B.D. CONF.3PZ 90X2-3 TG STRAIGHT	HCS HSS HM BIM HSS HCS HSS HM BIM HSS HCS HSS HM BIM HSS HCS HSS HM BIM HSS
23179		BIM HSS
23170 23175 23176 23178	 23170101 SAWS ALTERN.SABER X WOOD CONF.2PZ 230X5 TG STRAIGHT 23170102 SAWS ALTERN. SABER X WOOD CONF.2PZ 280X8,5TG STRAIGHT	HCS HSS HM BIM HSS HCS HSS HM BIM HSS HCS HSS HM BIM HSS HCS HSS HM BIM HSS

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