



INTERNATIONAL TOOLS

GENERAL CATALOGUE

Lame silenziate



La FZ F.Ili Zanarini snc produce lame da 30 anni.

Dal diametro 100 mm fino a 800 mm: una grandissima varietà per ogni necessità.

Le lame con denti radi servono per tagliare legno massiccio; quelle con maggior numero di denti, invece, per il taglio dei pannelli truciolari laminati. Vi sono poi, le lame multilama con rasanti per legni umidi e lame per il taglio alluminio e PVC.



La particolare forma degli intagli silenziati e l'inserimento negli stessi di un particolare materiale fono assorbente riducono notevolmente le vibrazioni, causa della rumorosità e della finitura della lama circolare. La diminuzione delle vibrazioni, unita al nuovo disegno del tagliente, consente inoltre un incremento della durata di taglio della lama pari al 20%.

Damped blades



FZ Fratelli Zanarini s.n.c. has been producing blades for 30 years.

A huge variety is available to suit every need with diameter ranging from 100 mm up to 800 mm.

Blades are cut using a laser and tensioned. The top-quality carbide pellets are electronically welded with temperature control.

Fine-toothed blades are used to cut solid wood, whilst those with the greatest number of teeth are for laminated chipboard. Next, there are gang saw blades with scrapers for wet wood and blades for cutting aluminium and PVC.

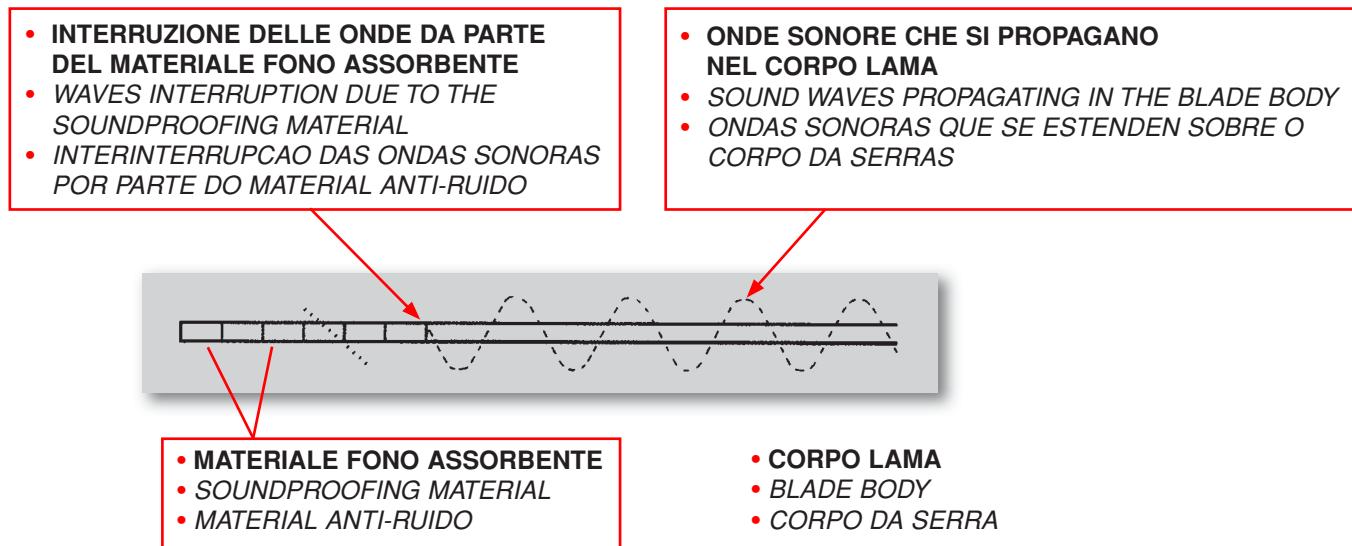
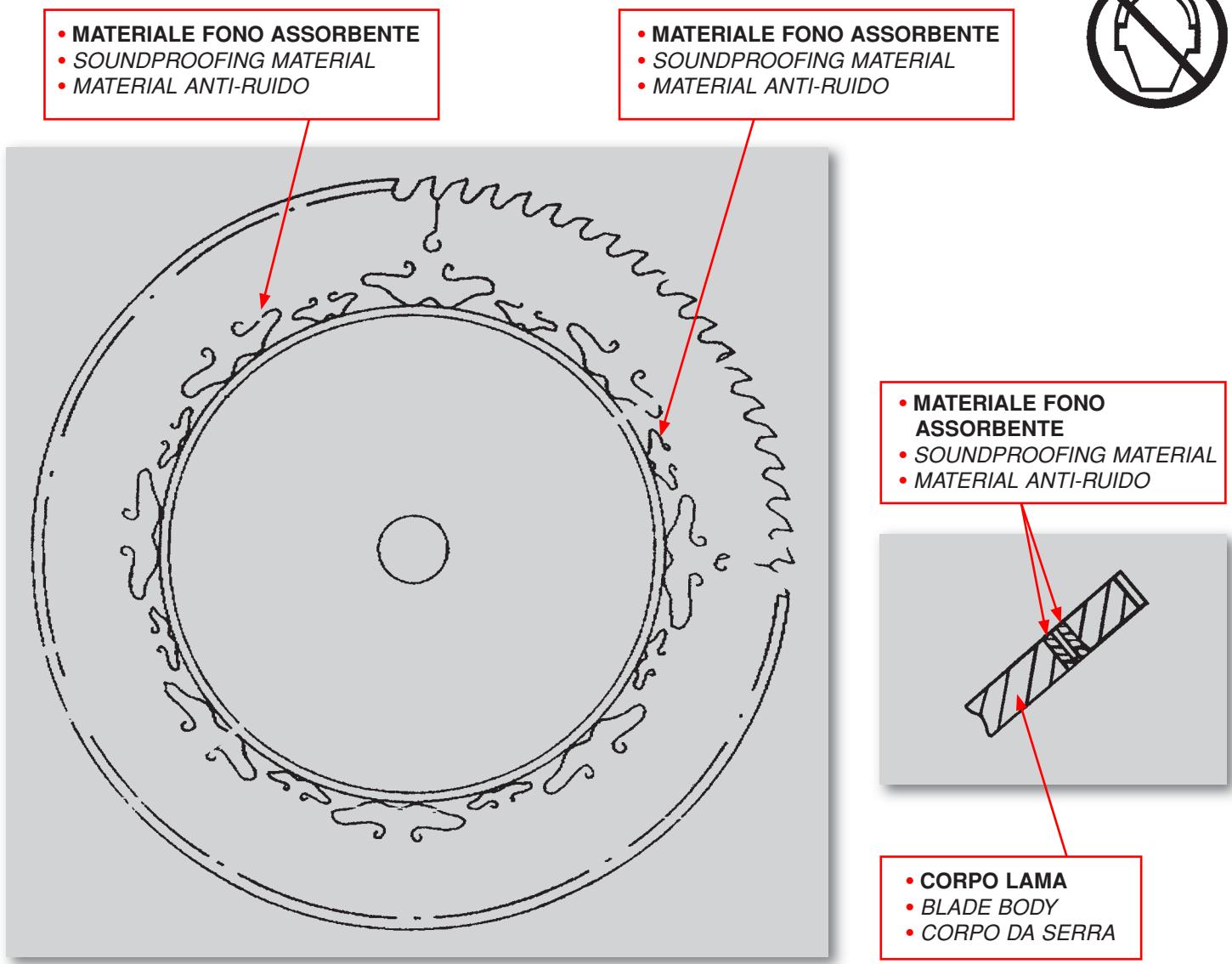
The particular shape of the damped slots and insertion therein of a special soundproofing material greatly reduce the vibrations responsible for the noisiness and wear that affect the circular blade. Furthermore, this vibration damping and the new design of the cutting edge offer a 20% increase in mean time before sharpening.



Gli orizzonti si dilatano dall'Est all'Ovest e da Settentrione al Meridione e le lame della F.Z. F.LLI ZANARINI S.N.C sono ormai sotto il cielo di quasi tutte le nazioni europee ed extra europee, Brasile, Messico, Argentina, Venezuela Colombia, Australia, Singapore ed altre poichè il clima permane familiare di collaborazione, dove competenza, dedizione e stima, rispetto ed esatte valutazioni tecnologiche hanno consentito e consentono quel sempre più elevato grado di rendimento, di precisione, di perfezionamento che distingue e distinguerà nel mondo la produzione F.Z. F.LLI ZANARINI S.N.C.

Their horizons are becoming increasingly wide from the east to the west, from the north to the south and the blades produced by F.Z. F.LLI ZANARINI S.N.C. are now under the sky of almost all nations in and out Europe, in Brazil, Mexico, Argentina, Venezuela, Columbia, Australia, Singapore and many others. While the atmosphere always remained that of a family cooperation, with competence, commitment and esteem, respect and right technical evaluations, the company has been and is still able to reach an increasingly high degree of performance, precision, improvement which distinguishes and will distinguish the products of F.Z. F.LLI ZANARINI S.N.C. in the world.

Lame silenziate



4 Trattamento RCW EFFETTO VELOURS

CARATTERISTICHE DEL TRATTAMENTO RCW EFFETTO VELOURS SULLE LAME CIRCOLARI IN WIDIA

È un trattamento che si applica sulle lame per proteggerle durante il taglio. La durezza superficiale del rivestimento consente di avere un effetto anti-aderenza, in quanto favorisce lo scarico del truciolo e impedisce l'accumulo della resina.

Tali condizioni permettono una durata di taglio maggiore.

FEATURES OF THE TREATMENT RCW VELOURS EFFECT ON CIRCULAR SAW BLADE

It's a treatment to apply on the saw blades to protect them during the cut. The superficial hardness of the coating enables to have an anti-adherence effect because favors the unloading of the chip and hinders the accumulating of the resin.

These conditions allow obtaining a longer duration of the cut.

La scelta dei materiali

Le lame vengono tagliate con il laser, tensionate e saldate elettronicamente con il controllo della temperatura.

Il metallo duro, di ottima qualità, è prodotto dalla Ceratizit.

Vengono utilizzati Service Center Vollmer per l'affilatura delle lame con differenti diametri e diverse geometrie del dente.

Queste caratteristiche garantiscono ad ogni utensile un'ottima durata e qualità di taglio.

The choice of the raw materials

Blades are cut using a laser, tensioned and electronically welded with temperature control.

The hard metal, of very good quality, is product from Ceratizit.

We have Service Center Vollmer for the sharpening of the saw blades with different diameters and various shapes of the tooth.

These characteristics guarantee to every tool a longer duration and a better quality of the cut.

Giri massimi di una lama

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Tabella per la Determinazione del Numero di Giri Max di una Lama
Table for Determining the Max. Number of Sawblade Revolutions

VELOCITÀ MAX. DI ROTAZIONE PER LAME CIRCOLARI

D	n. max
80	16700
85	15700
90	14800
100	13300
105	13300
110	13000
115	12900
120	12700
125	12700
130	12500
135	12000
140	11600
145	11200
150	10800
155	10500
160	10100
165	9800
170	9500
175	9300
180	9000
185	8700
190	8500
195	8300
200	8100
205	7900
210	7700
215	7500
220	7400
225	7200

D	n. max
230	7000
235	6900
240	6700
245	6600
250	6500
255	6300
260	6200
265	6100
270	6000
275	5900
280	5800
285	5700
290	5600
295	5500
300	5400
310	5200
320	5000
330	4900
340	4700
350	4600
360	4500
370	4300
380	4200
390	4100
400	4000
450	3600
500	3200
550	2900
600	2700

Condizioni generali di vendita

Il presente catalogo annulla e sostituisce le precedenti edizioni. I prezzi del presente catalogo - listino, possono essere variati in ogni momento a seconda delle necessità ed esigenze del momento, anche per ordini già acquisiti e non ancora evasi al momento dell'entrata in vigore di detta disposizione.

I nostri utensili vengono sottoposti ad accurati controlli e sono garantiti. La sostituzione di eventuali utensili verrà riconosciuta solamente dopo accurati accertamenti del nostro laboratorio.

Viene poi declinata ogni responsabilità se dall'accertamento risulta che guasti e rotture sono dovute ad imperizie, la riaffilatura degli utensili non è stata eseguita secondo le nostre indicazioni o usate a velocità diverse da quelle prestabilite. La merce da sostituire deve essere spedita in porto franco e non dar luogo ad alcun addebito per eventuali danni.

Ogni reclamo dovrà pervenirci non oltre dieci gg. dalla data di spedizione. La merce viene spedita franco nostra sede e salvo disposizioni contrarie, con il mezzo più idoneo.

La merce viaggia a rischio e pericolo del committente, l'imballo viene addebitato in fattura a puro costo.

Tutti gli ordini diretti ed indiretti devono essere sottoscritti dal committente e la nostra società si riserva il diritto di accettarli o qualora lo ritenga necessario, annullarli.

Il ritardo di consegna, per motivi contingenti, non dà alcun diritto al committente di richiedere danni. Tutti i pagamenti devono essere effettuati alla nostra sede e non sarà accettato nessun arrotondamento sulle fatture. I ritardi di pagamenti comporteranno un addebito di interessi pari al costo bancario in corso. Per ogni evenienza il foro competente è quello di Bologna.

General sales condition

This price-list shall remain in force until the publication of the new one. The parties shall agree in writing upon the terms of sale not provided for hereby.

The seller shall be permitted to make modifications to the tools produced, when, according to his own opinion, these could improve the quality of the products.

The purchase price is strictly related to the market situation at the moment of this price-list formation. Therefore, the eventual cost variation of raw materials, manwork and of these elements affecting the final cost shall allow the seller to proportionally modify the purchase price even after this price-list has already come into force.

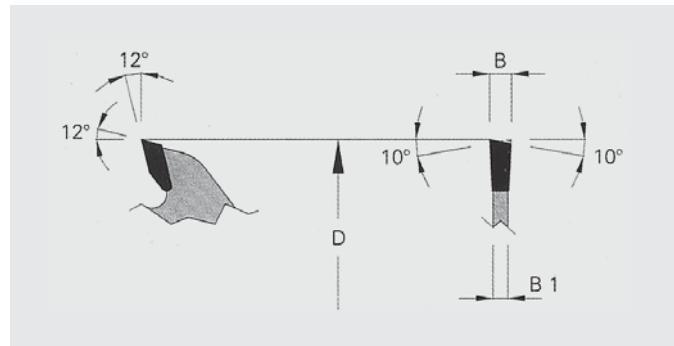
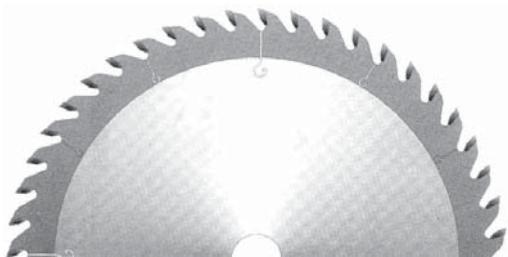
All the products are guaranteed for quality of manufacture. The seller shall replace only the products that have been known by the producer himself as showing defects in workmanship or materials. The merchandise to be replaced shall be shipped with no cost to producer. The replacement of the flawed products is free of charge for the purchase, but this shall not entitle anyone to a compensation for damages. The seller shall not be liable for alterations, executed without his permissions, for failure or breakdown caused by malpractice misuse inproper sharpening and for modifications in use or speed not expressly provided in the manual of instructions.

To be taken into any consideration, claims shall be notified at the sellers address within 8 days from the delivery of the merchandise. Normal packaging cost is included.

Special packaging cost is not included for orders up to € 258,23. Any packaging cost is included for orders above € 258,23. Payments shall be carried out at the seller office the provision of payment with promissory notes shall not waive the right of payment of the sellers domicile. The Italian judicial authority is competent to regulate and implement these terms of sale in accordance with the substantial law of Italy.

Lama circolare universale silenziata

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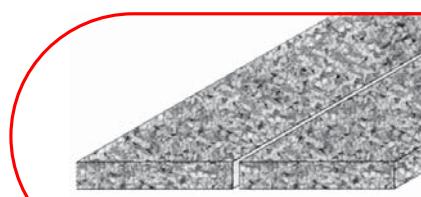
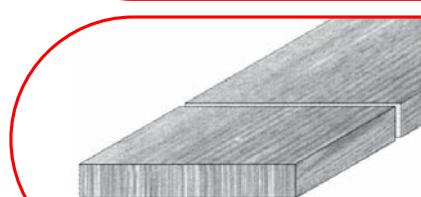
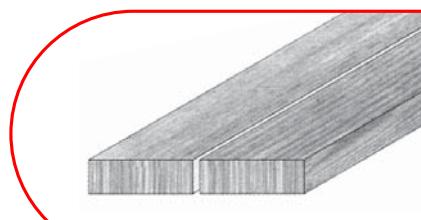


D	B	B1	d	Z	Euro
250	3.2	2.2	30	40	49,76
250	3.2	2.2	30	60	56,98
250	3.2	2.2	30	80	62,70
300	3.2	2.2	30	48	60,28
300	3.2	2.2	30	60	62,26
300	3.2	2.2	30	72	62,50
300	3.2	2.2	30	96	68,19
350	3.5	2.5	30	54	69,75
350	3.5	2.5	30	72	77,27
350	3.5	2.5	30	84	85,25
350	3.5	2.5	30	108	90,90
400	4.2	2.8	30	60	93,95
400	4.2	2.8	30	72	101,85
450	4.4	3.2	30	72	135,75
500	4.4	3.2	30	120	181,82

F.Z.

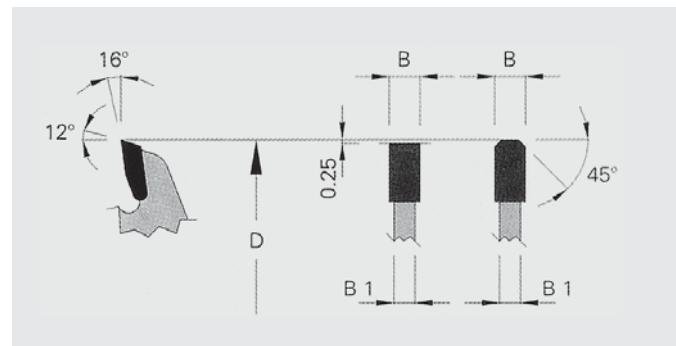
art. 1001

- dente alternato
- corpo silenziato



- Noise reduction universal saw blade. Tool body with microleaves.

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Lama circolare universale silenziata

D	B	B1	d	Z	Euro
250	3.2	2.2	30	40	51,00
250	3.2	2.2	30	60	58,00
250	3.2	2.2	30	80	64,00
300	3.2	2.2	30	48	62,00
300	3.2	2.2	30	60	64,00
300	3.2	2.2	30	72	64,00
300	3.2	2.2	30	96	70,00
350	3.5	2.5	30	54	71,00
350	3.5	2.5	30	72	79,00
350	3.5	2.5	30	84	87,00
350	3.5	2.5	30	108	92,00
400	4.2	2.8	30	60	95,00
400	4.2	2.8	30	72	103,00
450	4.4	3.2	30	72	138,00
500	4.4	3.2	30	120	184,00

- Noise reduction universal saw blade. Tool body with microleaves. TCT flat + triple chip tooth.

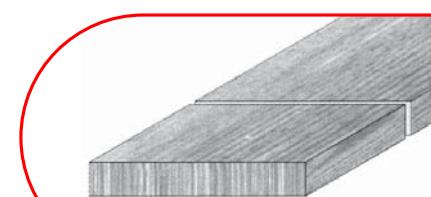
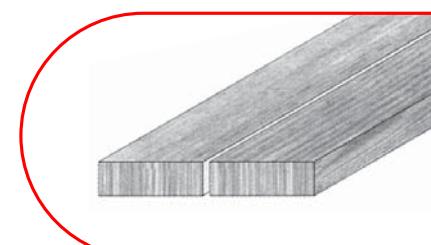
Lame antivibrazioni con trattamento RCW Plus ad alta resistenza all'usura

Indicate per MDF, HDF, MELAMINA e LAMINATI PLASTICI

D	B	d	Z	Euro
250	3.2	30	60	106,92
250	3.2	30	80	114,75
300	3.2	30	72	114,48
300	3.2	30	96	122,17
350	3.5	30	84	145,26
350	3.5	30	108	152,82
300	4.4	75	60	153,90
300	4.4	80	60	153,90
350	4.4	30	72	173,47
350	4.4	75	72	173,47
350	4.4	80	72	173,47
400	4.4	30	72	193,00
400	4.4	75	72	193,00
400	4.4	80	72	193,00
450	4.8	80	72	253,90

F.Z. art. 1001/b

- dente piano trapezoidale
- corpo silenziato



F.Z. art. 1001/c

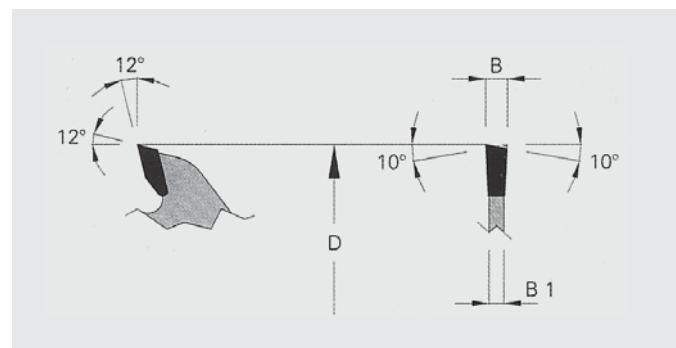
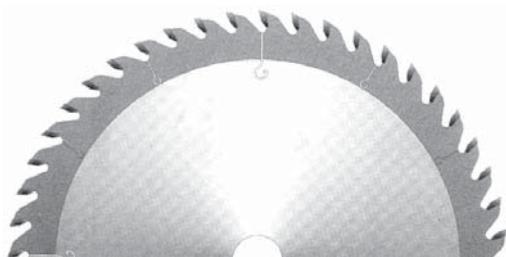
- dente piano trapezoidale
- corpo silenziato

- Antivibrations saw blade with treatment RCW-Plus. High resistance to wear, indicated for MDF, HDF, Melamina and plastic laminated.

new - new

Lama circolare universale

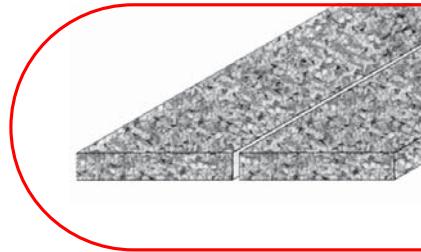
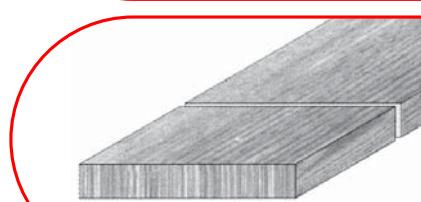
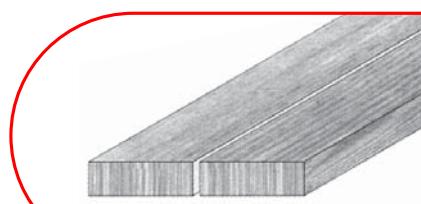
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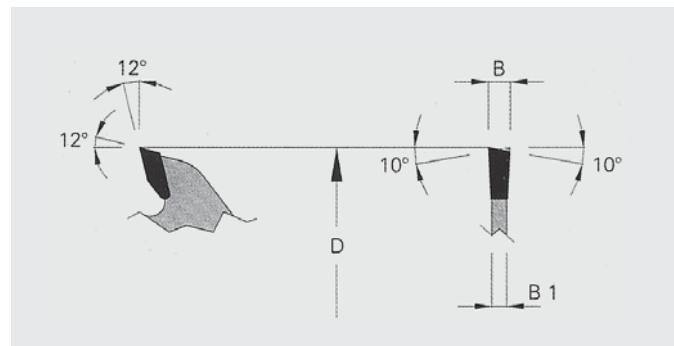
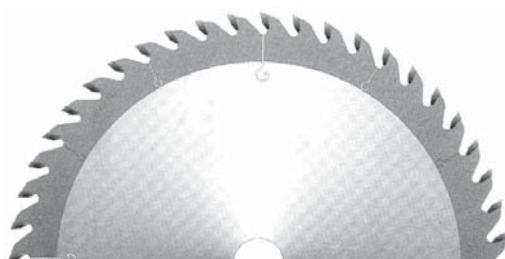


D	B	B1	d	Z	Euro
100	3.2	2.2	30	16	24,95
125	3.2	2.2	30	20	26,66
150	3.2	2.2	30	24	31,00
180	3.2	2.2	30	30	35,29
200	3.2	2.2	30	24	34,22
250	3.2	2.2	30	24	35,29
300	3.2	2.2	30	28	36,34
350	3.5	2.5	30	32	44,85
400	4.0	2.8	30	36	61,70
450	4.2	3.2	30	42	109,22
500	4.2	3.2	30	48	116,28

F.Z. art. 1002

- dente alternato



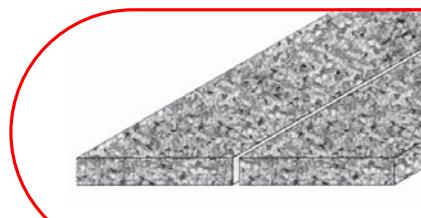
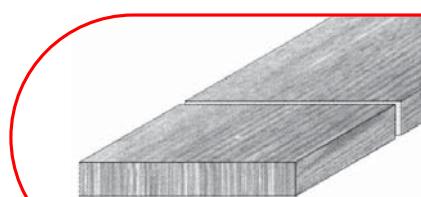
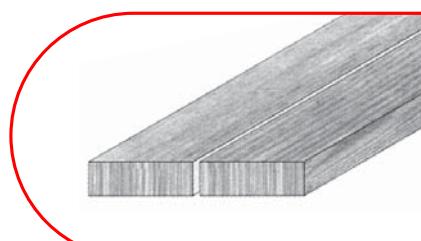
Lama circolare universale

D	B	B1	d	Z	Euro
100	3.2	2.2	30	24	26,22
125	3.2	2.2	30	30	31,22
150	3.2	2.2	30	36	37,10
180	3.2	2.2	30	42	37,54
200	3.2	2.2	30	34	36,57
250	3.2	2.2	30	40	39,64
300	3.2	2.2	30	36	41,63
350	3.5	2.5	30	42	51,50
400	4.0	2.8	30	48	64,79
450	4.2	3.2	30	54	110,78
500	4.4	3.2	30	60	121,56
550	4.6	3.5	30	72	173,92
600	5.0	3.5	30	84	214,84

F.Z.

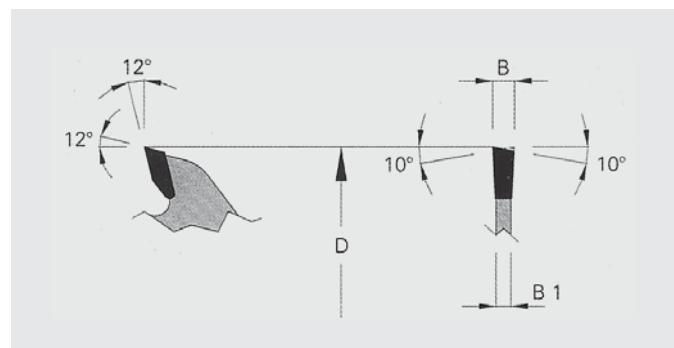
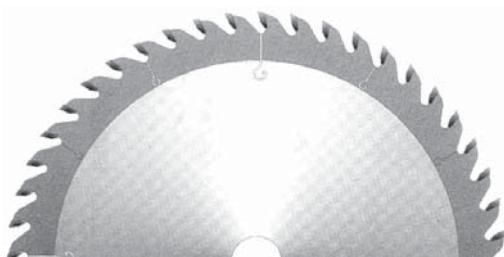
art. 1003

- dente alternato



Lama circolare universale

11

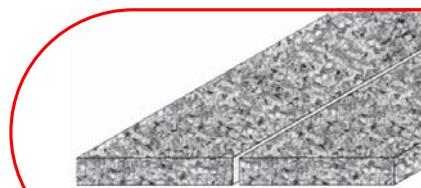
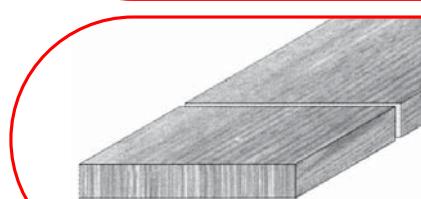
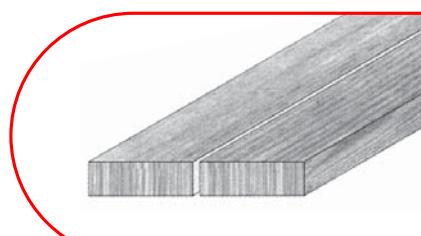


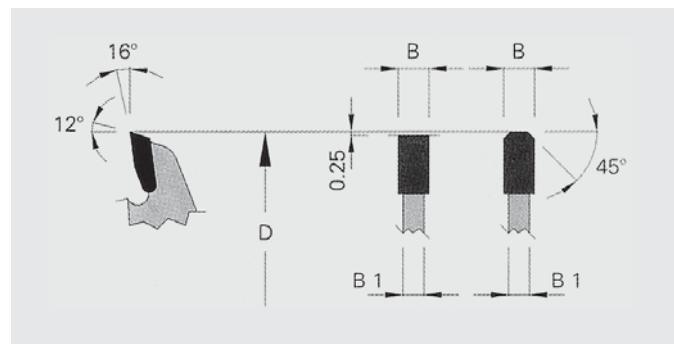
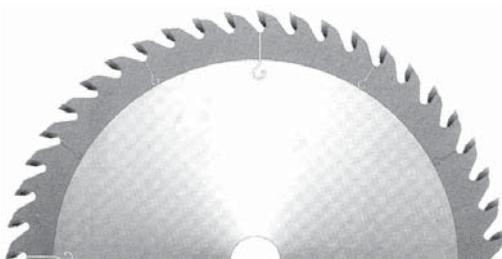
D	B	B1	d	Z	Euro
150	3.2	2.2	30	48	36,30
180	3.2	2.2	30	42	37,84
200	3.2	2.2	30	48	38,88
250	3.2	2.2	30	48	41,52
250	3.2	2.2	30	60	43,25
300	3.2	2.2	30	48	36,80
300	3.2	2.2	30	60	45,54
300	3.2	2.2	30	72	50,10
350	3.5	2.5	30	54	51,15
350	3.5	2.5	30	72	61,82
350	3.5	2.5	30	84	69,08
400	4.0	2.8	30	60	67,98
400	4.0	2.8	30	72	78,10
400	4.0	2.8	30	96	91,05
450	4.2	3.2	30	72	118,00
500	4.2	3.2	30	72	147,18

F.Z.

art. 1004

- dente alternato



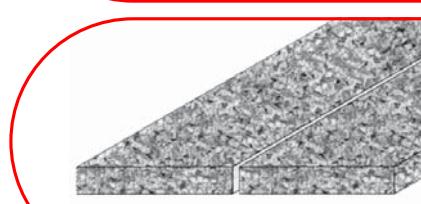
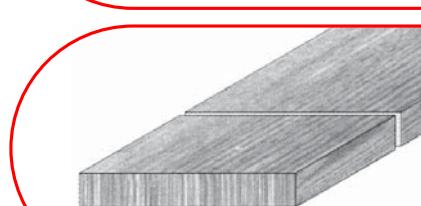
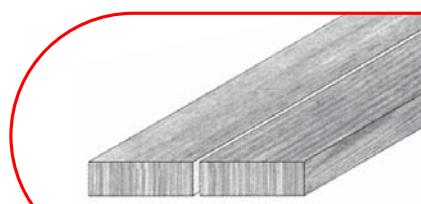
Lama circolare universale

D	B	B1	d	Z	Euro
150	3.2	2.2	30	48	38,00
180	3.2	2.2	30	42	39,00
200	3.2	2.2	30	48	40,00
250	3.2	2.2	30	48	43,00
250	3.2	2.2	30	60	44,00
300	3.2	2.2	30	48	38,00
300	3.2	2.2	30	60	47,00
300	3.2	2.2	30	72	52,00
350	3.5	2.5	30	54	53,00
350	3.5	2.5	30	72	64,00
350	3.5	2.5	30	84	71,00
400	4.0	2.8	30	60	70,00
400	4.0	2.8	30	72	80,00
400	4.0	2.8	30	96	94,00
450	4.2	3.2	30	72	122,00
500	4.2	3.2	30	72	152,00

F.Z.

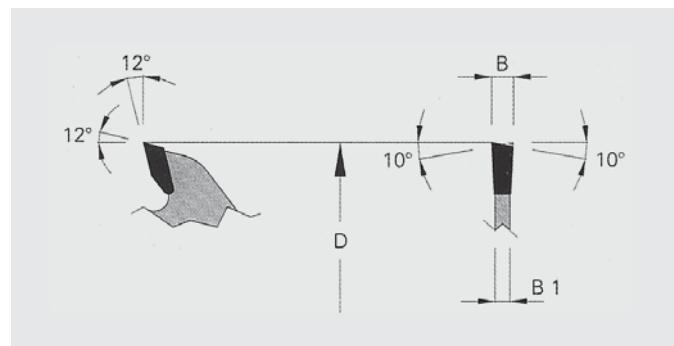
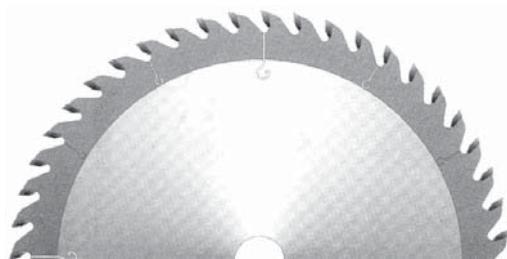
art. 1004/b

- dente piano
più trapezoidale



Lama circolare universale

13

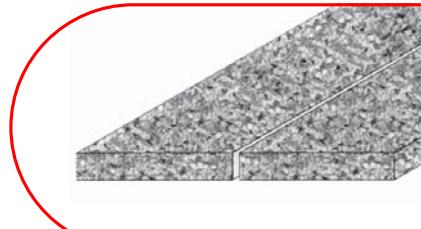
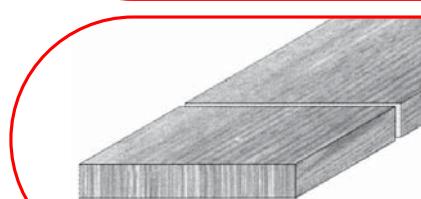
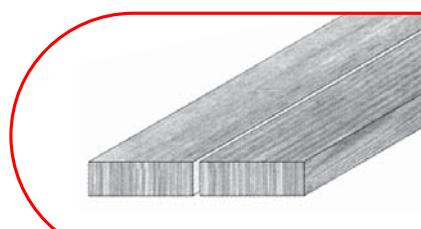


D	B	B1	d	Z	Euro
150	3.2	2.2	30	48	36,30
180	3.2	2.2	30	54	42,55
200	3.2	2.2	30	64	45,85
250	3.2	2.2	30	80	46,64
300	3.2	2.2	30	96	53,42
350	3.5	2.5	30	108	75,02
400	4.0	2.8	30	120	104,83
450	4.2	3.2	30	108	127,60
500	4.2	3.2	30	120	148,28

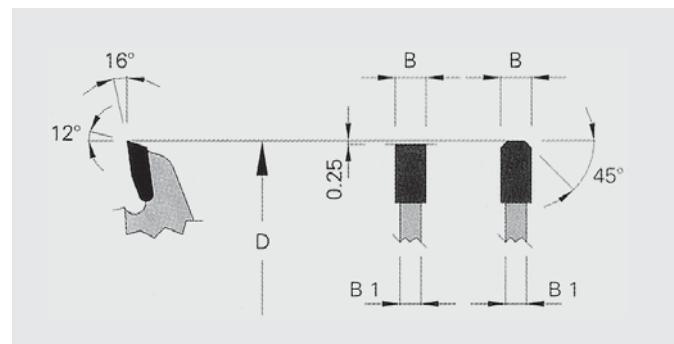
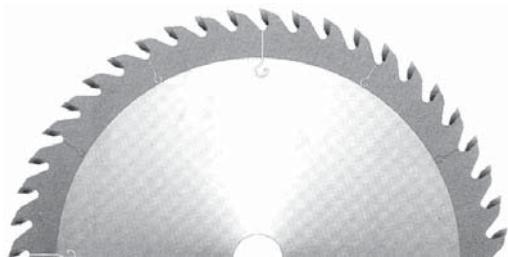
F.Z.

art. 1005

- dente alternato



- Universal saw blade. T.C.T. Alternate Bevel tooth.

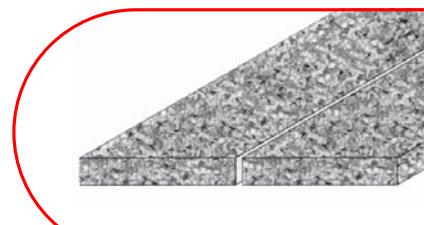
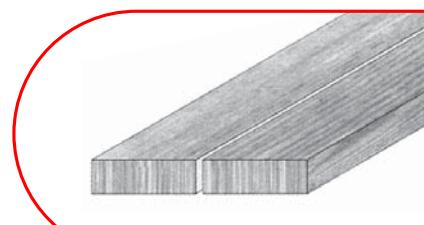
Lama circolare universale

D	B	B1	d	Z	Euro
150	3.2	2.2	30	48	38,00
180	3.2	2.2	30	54	44,00
200	3.2	2.2	30	64	47,00
250	3.2	2.2	30	80	48,00
300	3.2	2.2	30	96	55,00
350	3.5	2.5	30	108	77,00
400	4.0	2.8	30	120	107,00
450	4.2	3.2	30	108	130,00
500	4.2	3.2	30	120	152,00

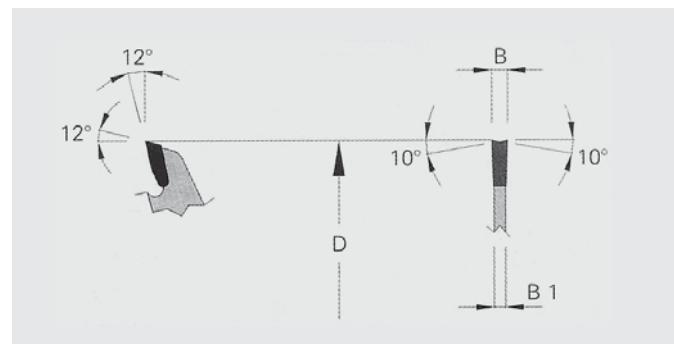
F.Z.

art. 1005/b

- dente piano
più trapezoidale



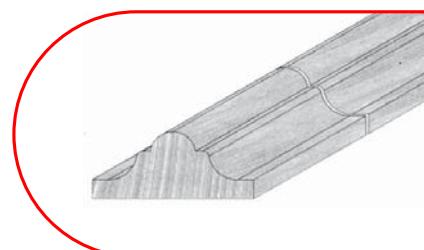
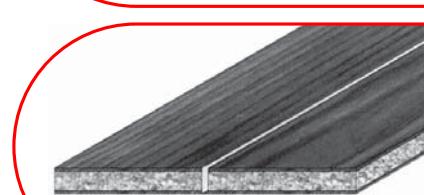
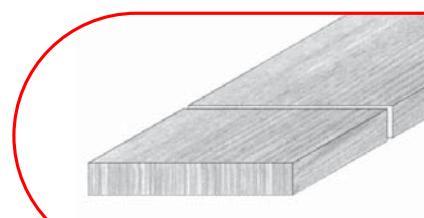
- Universal saw blade. T.C.T. Flat + triple chip tooth.

Lama circolare universale a spessore sottile**15**

D	B	B1	d	Z	Euro
150	2	1.4	30	48	37,40
180	2	1.4	30	54	44,49
200	2.2	1.5	30	64	46,53
250	2.5	1.8	30	60	48,84
250	2.5	1.8	30	80	59,82
250	2.5	1.8	30	96	75,24
300	2.5	1.8	30	72	60,50
300	2.5	1.8	30	96	76,00
300	2.5	1.8	30	120	96,80
350	2.8	2.0	30	108	85,52

F.Z. art. 1006

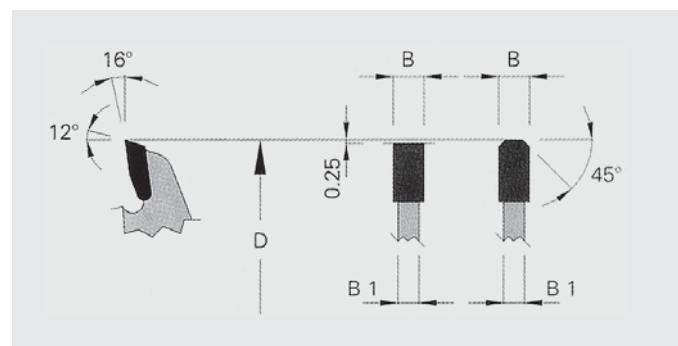
- dente alternato



- Saw blade with thin cutting width. T.C.T. Alternate Bevel tooth.

16

Lama circolare universale a spessore sottile

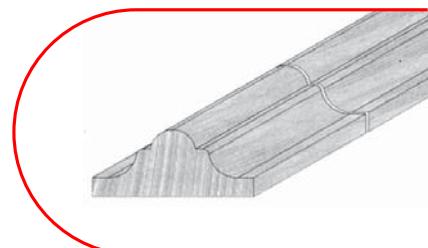
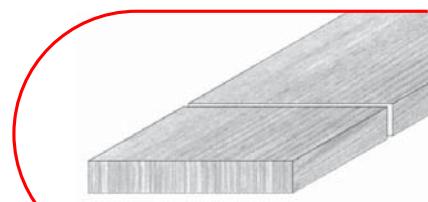


D	B	B1	d	Z	Euro
150	2	1.4	30	48	39,00
180	2	1.4	30	54	47,00
200	2.2	1.5	30	64	48,00
250	2.5	1.8	30	60	51,00
250	2.5	1.8	30	80	62,00
250	2.5	1.8	30	96	78,00
300	2.5	1.8	30	72	63,00
300	2.5	1.8	30	96	79,00
300	2.5	1.8	30	120	99,00
350	2.8	2.0	30	108	88,00

F.Z.

art. 1006/b

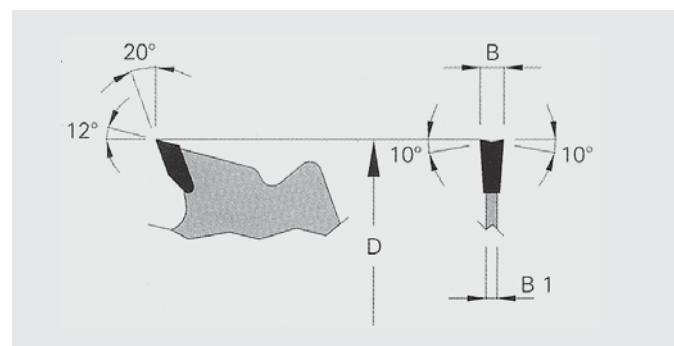
- dente piano
più trapezoidale



- Saw blade with thin cutting width. T.C.T. Flat + triple chip tooth.

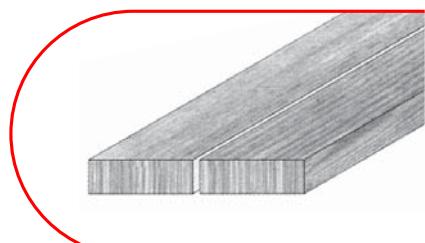
Lama circolare per tagli longitudinali

17



D	B	B1	d	Z	Euro
250	3.2	2.2	30	24	36,30
250	3.2	2.2	35	24	36,30
300	3.2	2.2	30	28	41,91
300	3.2	2.2	35	28	41,91
350	3.5	2.5	30	32	51,04
350	3.5	2.5	35	32	51,04
400	4	2.8	30	36	64,35
400	4	2.8	35	36	64,35

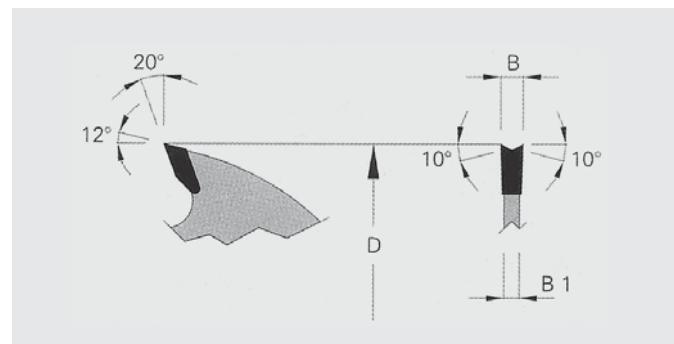
F.Z. art. 1007
 - dente alternato
 - corpo con limitatore
 di truciolo



- Rip circular saw blade. T.C.T. Alternate Bevel tooth told body with chipthickness limiter.

18

Lama circolare per multilame

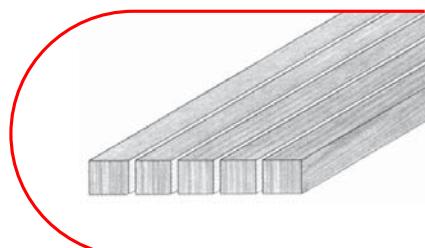


D	B	B1	d	Z	Euro
250	3.2	2.2	30	20+4	45,10
250	3.2	2.2	70	20+4	45,10
250	2.5	1.6	70	20+4	49,06
300	3.2	2.2	70	24+4	47,65
300	3.2	2.2	80	24+4	47,65
300	3.2	2.2	30	24+4	47,65
300	2.7	1.6	70	24+4	55,00
350	3.5	2.5	70	28+6	65,67
350	3.5	2.5	80	28+6	65,67
350	3.5	2.5	30	28+6	65,67
350	3.0	2.0	70	28+6	70,56
400	4.2	2.8	70	32+8	102,26
400	4.2	2.8	80	32+8	102,26

F.Z.

art. 1008

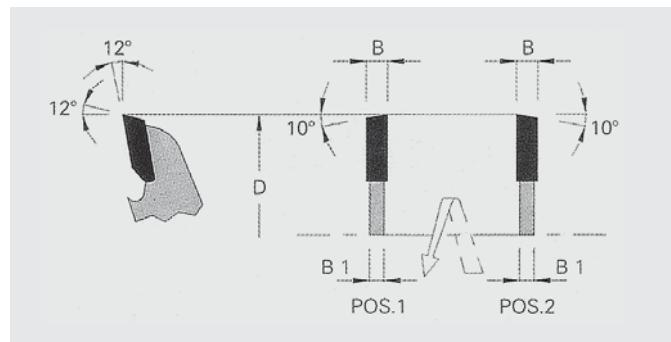
- dente alternato
- con rasanti



- Saw blade for multiple ripsaws. T.C.T. Alternate Bevel tooth. With T.C.T. wiper slots.

Lama per squadratrici doppie

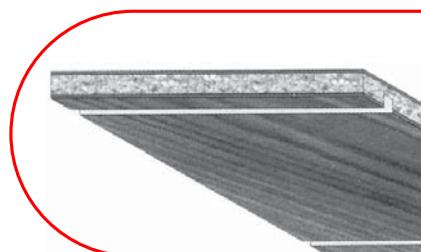
19



D	B	B1	d	Z	Euro
205	4.1	2.8	80	48	68,40
205	4.1	2.8	80	60	74,00
255	4.1	2.8	80	40	69,50
255	4.1	2.8	130	40	69,50
255	4.1	2.8	80	60	78,80
255	4.1	2.8	130	60	78,80
305	4.1	2.8	130	72	89,42
355	4.4	2.8	80	72	90,50
360	4.4	3.0	80	72	92,50

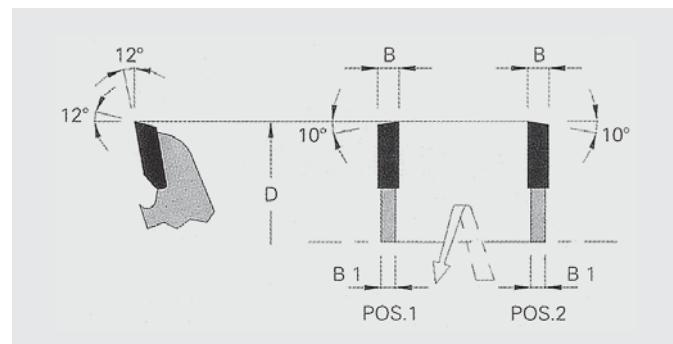
F.Z. | art. 1009

- denti inclinati
da una sola parte



- Saw blade four double sizing machines. T.C.T. Alternate Bevel tooth.

Lama per squadratrici doppie

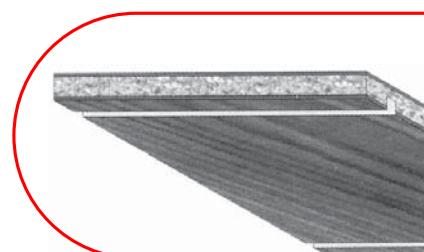


D	B	B1	d	Z	Euro
150	3.2	2.2	55	36	32,00
150	3.2	2.2	60	36	32,00
150	3.2	2.2	55	48	39,28
150	3.2	2.2	60	48	39,28
180	3.2	2.2	55	42	39,28
180	3.2	2.2	60	42	39,28
180	3.2	2.2	55	54	50,38
180	3.2	2.2	60	54	50,38
200	3.2	2.2	55	48	44,49
200	3.2	2.2	60	48	44,49

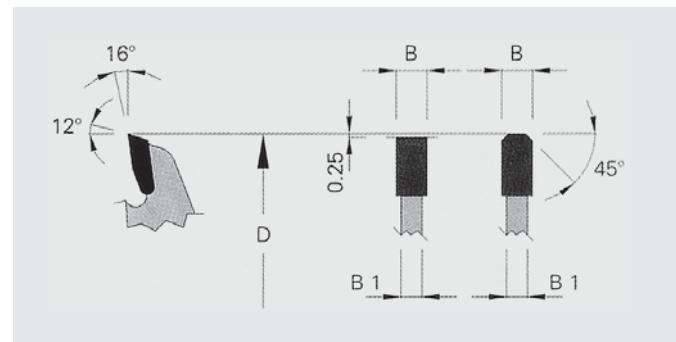
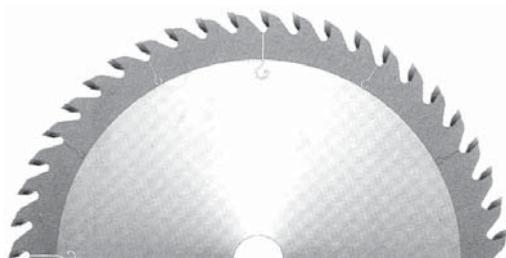
F.Z.

art. 1010

- denti inclinati
da una sola parte



- Scoring saw blade for double sizing machines. T.C.T. one side bevel tooth.

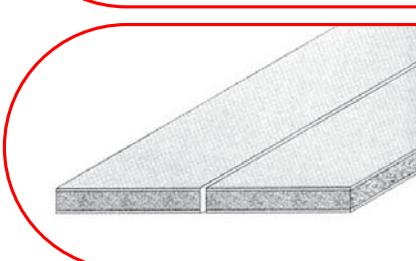
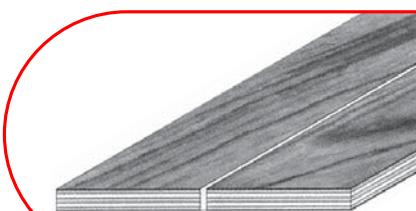
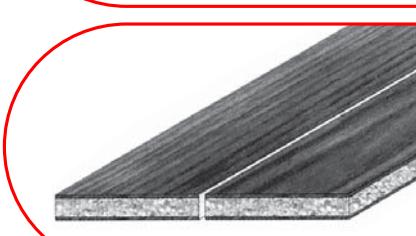
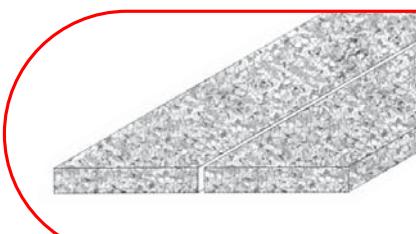
Lama circolare per sezionatrici silenziate**21**

D	B	B1	d	Z	Euro
300	4.4	3.0	75	60	87,10
300	4.4	3.0	80	60	87,10
350	4.4	3.0	30	54	87,12
350	4.4	3.0	75	54	87,12
350	4.4	3.0	80	54	87,12
350	4.4	3.0	30	72	101,75
350	4.4	3.0	75	72	101,75
350	4.4	3.0	80	72	101,75
400	4.4	3.0	30	60	108,20
400	4.4	3.0	75	60	108,20
400	4.4	3.0	80	60	108,20
400	4.4	3.0	30	72	115,80
400	4.4	3.0	75	72	115,80
400	4.4	3.0	80	72	115,80
450	4.8	3.5	80	72	161,04
500	4.8	3.5	75	60	166,08
500	4.8	3.5	80	72	202,32

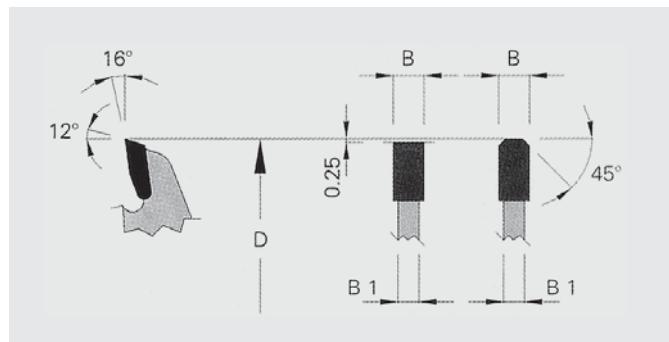
F.Z.

art. 1011

- dente piano
- più trapezoidale
- corpo silenziato



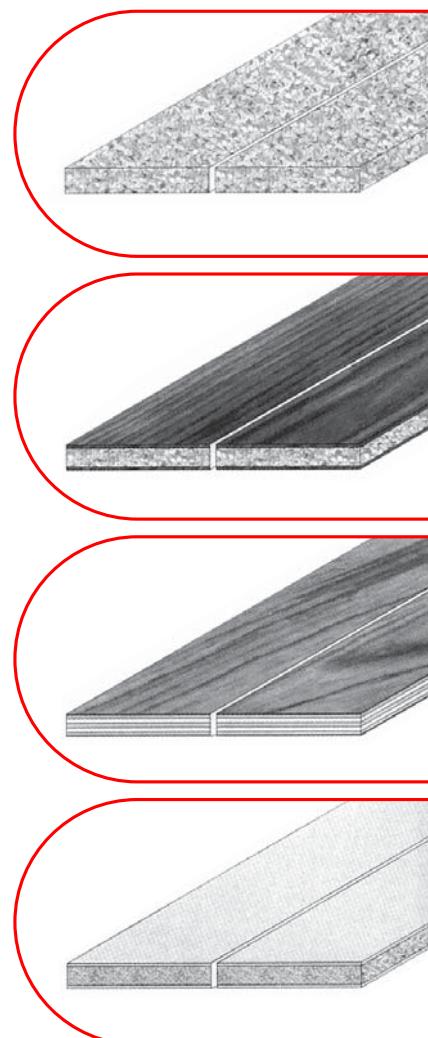
- Noise reduction panel sizing saw blade. T.C.T. flat + triple chip tooth.
Tool body with microleaves.

Lama circolare per sezionatrici

D	B	B1	d	Z	Euro
300	4.4	3.0	75	60	64,68
300	4.4	3.0	80	60	64,68
350	4.4	3.0	30	54	68,90
350	4.4	3.0	75	54	68,90
350	4.4	3.0	80	54	68,90
350	4.4	3.0	30	72	81,40
350	4.4	3.0	75	72	81,40
350	4.4	3.0	80	72	81,40
400	4.4	3.0	30	60	88,68
400	4.4	3.0	75	60	88,68
400	4.4	3.0	80	60	88,68
400	4.4	3.0	30	72	97,64
400	4.4	3.0	75	72	97,64
400	4.4	3.0	80	72	97,64
450	4.8	3.5	80	72	125,36
500	4.8	3.5	75	60	136,20
500	4.8	3.5	80	72	178,80

F.Z. art. 1012

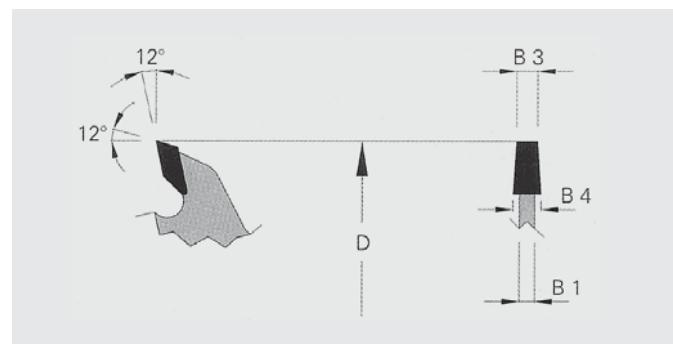
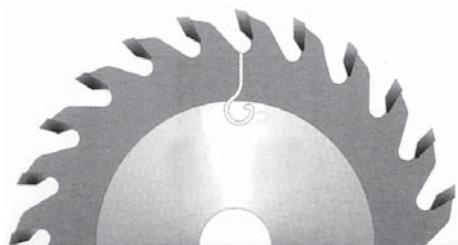
- dente piano
più trapezoidale



- Panel sizing saw blade. T.C.T. flat + triple chip tooth.

Incisore conico

23

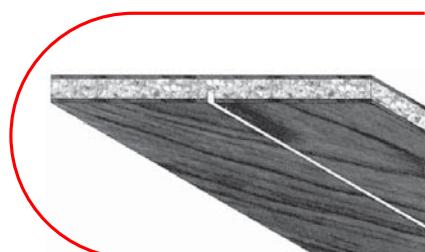


D	B3	B4	B1	d	Z	Euro
110	3.2	4.2	2.2	20	24	35,19
120	3.2	4.2	2.2	20	24	35,19
125	3.2	4.2	2.2	20	24	35,19
125	3.2	4.2	2.2	20	30	37,20
125	4.4	5.5	2.8	45	24	41,28
150	4.4	5.5	3.0	30	24	46,00
150	4.4	5.5	3.0	30	36	48,00
160	4.4	5.5	3.0	55	36	49,00
200	4.4	5.5	3.0	20	36	54,80
200	4.4	5.5	3.0	65	36	54,80

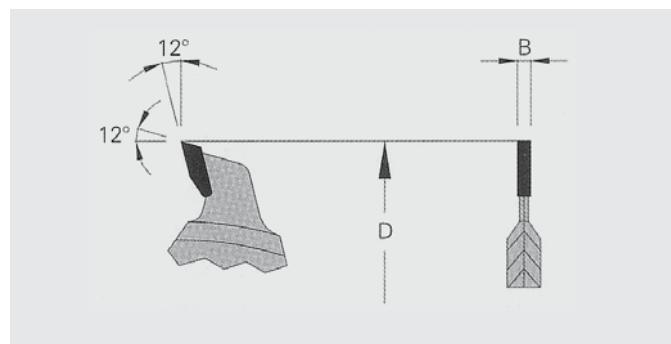
F.Z.

art. 1013

- dente a profilo conico



- **Conical scoring blade. T.C.T. conical tooth.**

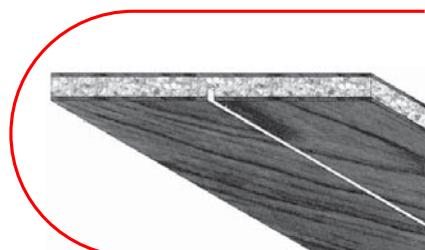
Incisore regolabile con anelli

D	B	B1	d	Z	Euro
80	2.8	3.6	20	10+10	58,00
100	2.8	3.6	20	10+10	58,00
100	2.8	3.6	22	10+10	58,00
120	2.8	3.6	20	12+12	59,00
120	2.8	3.6	22	12+12	59,00
125	2.8	3.6	20	12+12	67,14
125	2.8	3.6	22	12+12	67,14

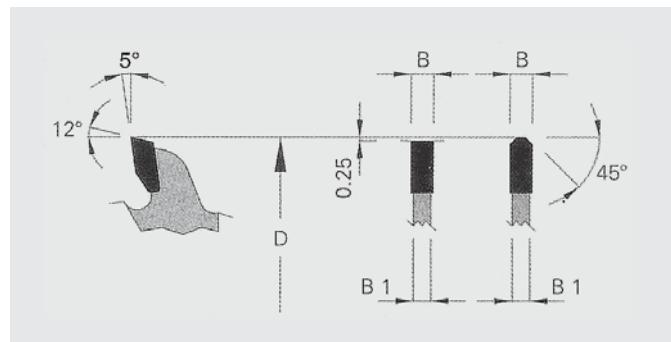
F.Z.

art. 1014

- dente piano



- Scoring blade adjustable by spacers. T.C.T. flat tooth.

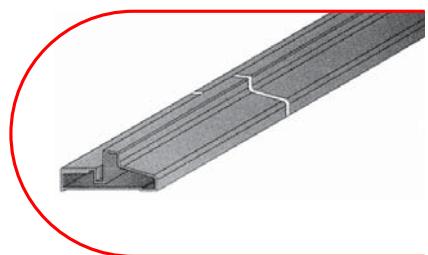
Lama circolare per leghe leggere**25**

D	B	B1	d	Z	Euro
250	3.3	2.6	32	60	56,43
250	3.3	2.6	32	80	57,64
300	3.3	2.6	32	72	66,11
300	3.3	2.6	32	84	67,98
300	3.3	2.6	32	96	72,82
350	3.3	2.6	32	84	75,68
350	3.3	2.6	32	108	81,67
400	3.8	2.8	32	96	92,56
400	3.8	2.8	32	120	104,39
450	4.0	3.2	32	108	124,96
500	4.0	3.2	32	120	136,29

Angolo negativo -5° Angolo positivo $+5^\circ$

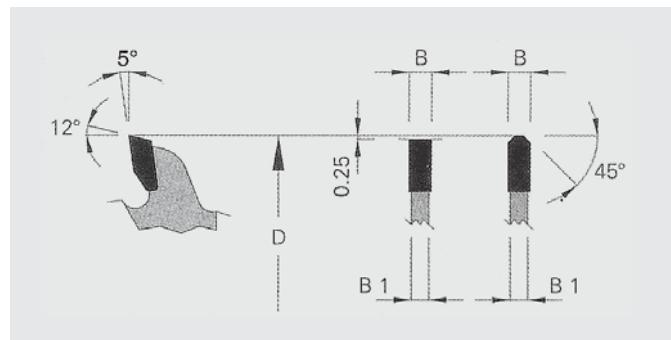
F.Z. art. 1015

- dente piano
più trapezoidale



- Non ferrous metal saw blade. T.C.T. flat + triple chip tooth.

26

Lama circolare per leghe leggere silenziata

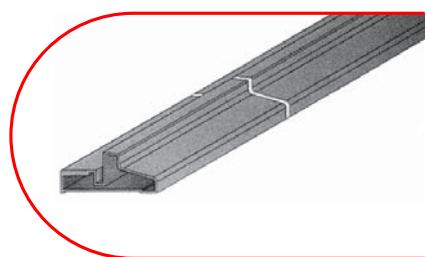
D	B	B1	d	Z	Euro
250	3.3	2.6	32	60	71,83
250	3.3	2.6	32	80	75,20
300	3.3	2.6	32	72	81,40
300	3.3	2.6	32	84	82,72
300	3.3	2.6	32	96	79,53
350	3.3	2.6	32	84	89,10
350	3.3	2.6	32	108	95,92
400	3.8	2.8	32	96	113,15
400	3.8	2.8	32	120	121,22
450	4.0	3.2	32	108	136,18
500	4.0	3.2	32	120	159,06
550	4.6	3.5	32	140	304,50
600	5.0	3.5	32	160	354,60

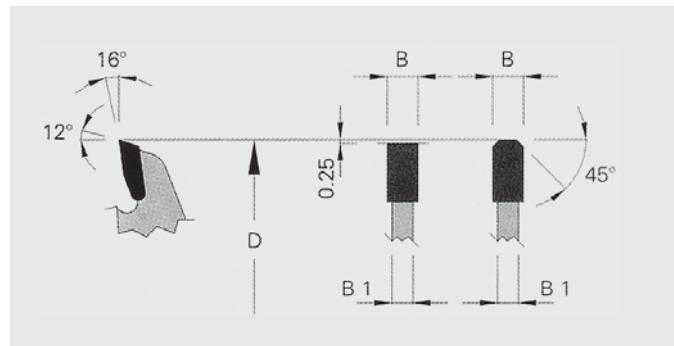
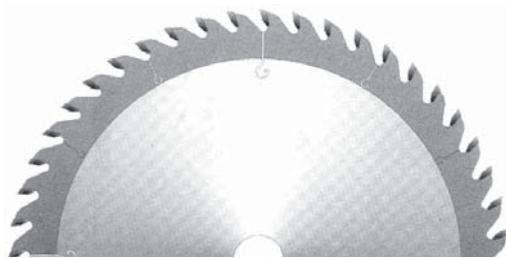
Angolo negativo -5° Angolo positivo $+5^\circ$

F.Z.

art. 1016

- dente piano
- più trapezoidale
- corpo silenziato



Lame ad alto rendimento con trattamento R.C.W 27

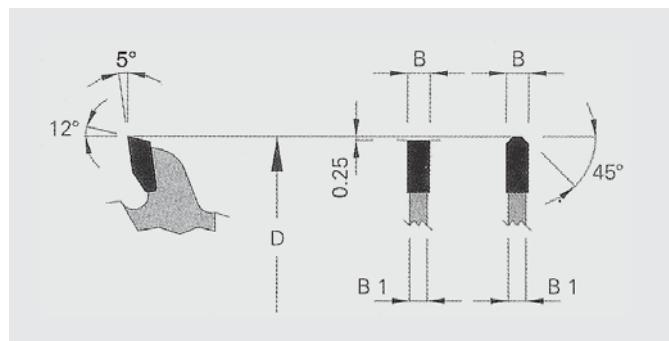
D	B	d	Z	Euro
250	3.2	30	60	MELAMINA - M.D.F. 79,20
250	3.2	30	80	MELAMINA - M.D.F. 85,00
300	3.2	30	72	MELAMINA - M.D.F. 84,80
300	3.2	30	96	MELAMINA - M.D.F. 90,50
350	3.5	30	84	MELAMINA - M.D.F. 107,60
350	3.5	30	108	MELAMINA - M.D.F. 113,20
300	4.4	75	60	SEZIONATRICE SIZING MACHINE 114,00
300	4.4	80	60	SEZIONATRICE SIZING MACHINE 114,00
350	4.4	30	72	SEZIONATRICE SIZING MACHINE 128,50
350	4.4	75	72	SEZIONATRICE SIZING MACHINE 128,50
350	4.4	80	72	SEZIONATRICE SIZING MACHINE 128,50
400	4.4	30	72	SEZIONATRICE SIZING MACHINE 143,00
400	4.4	75	72	SEZIONATRICE SIZING MACHINE 143,00
400	4.4	80	72	SEZIONATRICE SIZING MACHINE 143,00
450	4.8	80	72	SEZIONATRICE SIZING MACHINE 188,00

F.Z.

art. 1017

- High performance saw blades with treatment R.C.W.

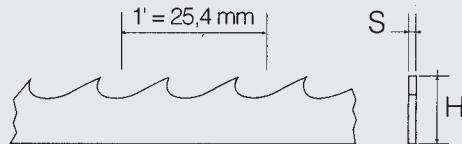
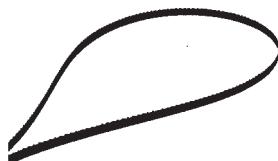
28 Lame ad alto rendimento con trattamento R.C.W



D	B	d	Z	Euro	F.Z.	art. 1018
250	3.3	32	80	PER ALLUMINIO 90,00		
300	3.3	32	96	PER ALLUMINIO 97,00		
350	3.3	32	108	PER ALLUMINIO 112,00		
400	3.6	32	120	PER ALLUMINIO 145,00		
450	4.0	32	108	PER ALLUMINIO 158,00		
500	4.0	32	120	PER ALLUMINIO 183,00		

- High performance saw blades with treatment R.C.W.

Lame a nastro per legno temperate FLEX BACK 29



HxS mm.	Denti/pollice teeth/inch						Euro		
03 x 0,65	10	14	18	24	32		3,40		
04 x 0,65	10	14	18	24	32		3,40		
05 x 0,65	10	14	18	24	32		3,40		
06 x 0,50	4	6					3,50		
06 x 0,65	4	6	10	14	18	24	3,40		
08 x 0,65	4	6	8	10	14	18	2,70		
10 x 0,50	4	6					3,60		
10 x 0,65	3	4	6	8	10	14	18	24	3,20
13 x 0,50	3	4	6					3,90	
13 x 0,65	3	4	6	8	10	14	18	24	3,20
16 x 0,50	3	4	6					4,50	
16 x 0,65	3	4	6					3,75	
16 x 0,80	2	3	4	6	8	10	14		3,75
20 x 0,50	3	4	6					5,20	
20 x 0,65	2	3	4					4,40	
20 x 0,80	2	3	4	6	8	10	14		4,40
25 x 0,65	2	3	4					5,45	
25 x 0,90	2	3	4	6	8	10	14		5,45

Hardened band saw blades for wood

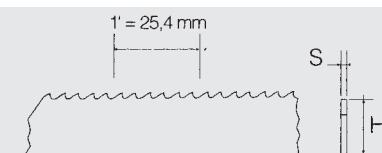
ROTOLI STANDARD:
in rotoli da 76/100 mt. o
in anelli minimo n. 10 pz.

STANDARD SIZES:
In coils 100 mt. or
in rings minimum n. 10 pcs.

Saldatura n. 1 Euro 4,65
Welding n. 1 Euro 4,65



Lame a nastro per acciaio BIMETALL M42 - 9% COBALT - 68-69 HRC



HxS mm.	Denti/pollice teeth/inch						Euro									
6 x 0,90				10	10/14	14	9,90									
10 x 0,90				10	10/14	14	9,90									
13 x 0,65	4	6	6/10	8/12	10	10/14	14	9,90								
13 x 0,90	3	4	6	6/10	8	8/12	10	10/14	14	9,90						
20 x 0,90	3	4	4/6	6	5/8	6/10	8	8/11	12	10	10/14	14	18	10,90		
27 x 0,90	2	2/3	3	3/4	4	4/6	6	5/8	6/10	8	8/12	10	10/14	14	18	10,90
34 x 1,10	2	2/3	3	3/4	4	4/6	6	5/8	6/10	8	8/12	10			15,00	
41 x 1,30	2	2/3	3	3/4	4	4/6	6	5/8	6/10	8					21,90	

Band saw blades for steel

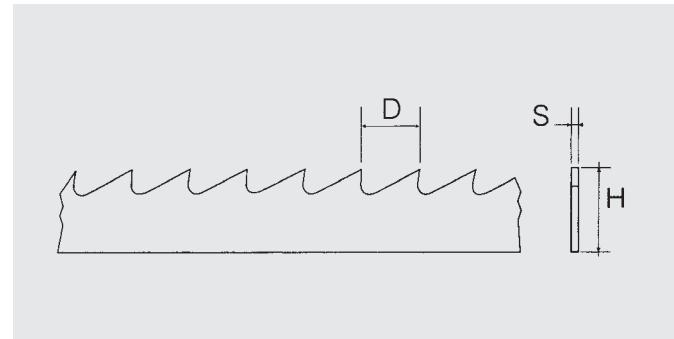
ROTOLI STANDARD:
in rotoli da 76/100 mt. o
in anelli minimo n. 10 pz.

STANDARD SIZES:
In coils 100 mt. or
in rings minimum n. 10 pcs.



Saldatura n. 1 Euro 4,65
Welding n. 1 Euro 4,65

Lama a nastro per legno DURATECH



HxS mm.	D mm.	Euro 1 mt.	Euro 1 mt.
10 x 0,4	6-8	1,00	2,20
10 x 0,5	6-8	1,10	2,20
10 x 0,6	6-8	1,20	2,30
10 x 0,7	6-8	1,30	2,40
15 x 0,4	6-8-10	1,10	2,30
15 x 0,5	6-8-10	1,20	2,40
15 x 0,6	6-8-10	1,30	2,50
15 x 0,7	8-10	1,40	2,60
15 x 0,8	8-10	1,50	2,70
20 x 0,4	6-8-10	1,30	2,50
20 x 0,5	6-8-10	1,30	2,60
20 x 0,6	6-8-10	1,50	2,70
20 x 0,7	8-10	1,50	2,80
20 x 0,8	8-10	1,70	2,90
25 x 0,5	6-8-10	1,60	2,80
25 x 0,6	6-8-10-12	1,70	2,90
25 x 0,7	8-10-12	1,90	3,10
25 x 0,8	8-10-12	2,00	3,20
30 x 0,5	8-10	2,20	
30 x 0,6	8-10-12-14	1,90	3,10
30 x 0,7	8-10-12-14	2,00	3,20
30 x 0,8	8-10-12-14	2,10	3,30
35 x 0,6	8-10-12-14	2,10	
35 x 0,7	8-10-12-14	2,20	3,40
35 x 0,8	8-10-12-14	2,30	3,60
40 x 0,7	10-12-14-16	2,40	3,70
40 x 0,8	10-12-14-16	2,60	3,80
40 x 0,9	10-12-14-16	2,90	4,00
45 x 0,6	12-14-16-18-20	3,30	
45 x 0,9	12-14-16-18-20	3,70	
50 x 0,8	12-14-16-18-20	3,90	
50 x 0,9	12-14-16-18-20	4,20	
50 x 1,0	12-14-16-18-20	4,70	

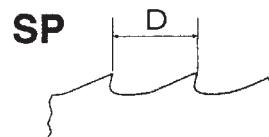
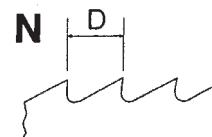
Dentato - Only toothed

Affilato e stradato - Sharpening and set

F.Z.

art. 1019

- dentato
- affilato o stradato



ROTOLI STANDARD:
in rotoli da 76/100 mt. o
in anelli minimo n. 10 pz.

STANDARD SIZES:
*In coils 100 mt. or
in rings minimum n. 10 pcs.*

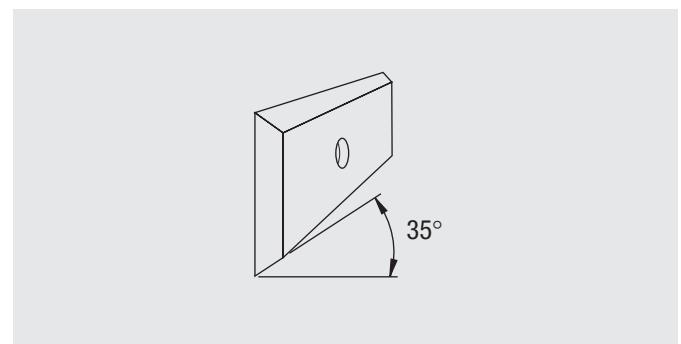
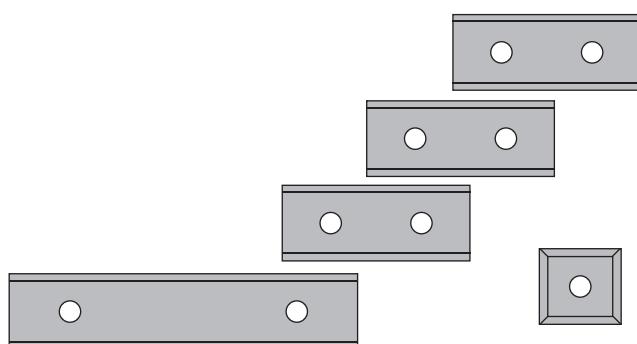
Saldatura n. 1 Euro 4,65
Welding n. 1 Euro 4,65



- Band saw blades for wood DURATECH.

Coltellini reversibili in HW

31



QUALITÀ STANDARD, BUONA SU TUTTI I MATERIALI
STANDARD QUALITY, GOOD FOR ALL MATERIALS
 (HV10 = 1760 e N/mm = 2100)

Euro

F.Z.

art. 1020

COLTELLINO	HW	7,5x12x1.5	1,92
COLTELLINO	HW	9,6x12x1.5	2,34
COLTELLINO	HW	12x12x1.5	2,16
COLTELLINO	HW	15x12x1.5	2,27
COLTELLINO	HW	20x12x1.5	2,18
COLTELLINO	HW	30x12x1.5	2,38
COLTELLINO	HW	40x12x1.5	3,20
COLTELLINO	HW	50x12x1.5	3,18
COLTELLINO	HW	60x12x1.5	4,80
COLTELLINO	HW	80x13x2.2	14,25
COLTELLINO	HW	100x13x2.2	20,27
COLTELLINO	HW	120x13x2.2	24,07
COLTELLINO	HW	14x14x2.0	2,25
COLTELLINO	HW	14x14x1.2	2,69

QUALITÀ MICROGRANO, MOLTO BUONA SU TRUCIOLARE E MDF
MICROGRAIN QUALITY, VERY GOOD FOR CHIPBOARD AND MDF
 (HV10 = 2020 e N/mm = 3300)

Euro

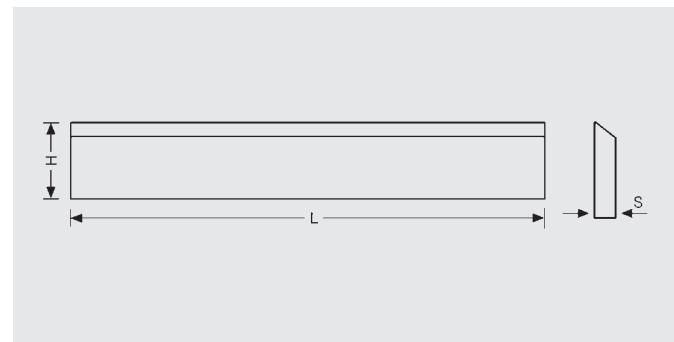
COLTELLINO	HW	12x12x1.5	3,54
COLTELLINO	HW	14x14x2.0	3,16
COLTELLINO	HW	20x12x1.5	3,24
COLTELLINO	HW	30x12x1.5	3,24
COLTELLINO	HW	50x12x1.5	4,44

QUALITÀ SUB-MICROGRANO, ECCELLENTE SU TRUCIOLARE,MDF E HDF
SUB-MICROGRAIN QUALITY, EXCELLENT FOR CHIPBOARD, MDF AND HDF
 (HV10 = 2350 e N/mm = 3500)

Euro

COLTELLINO	HW	12x12x1.5	4,96
COLTELLINO	HW	14x14x2.0	5,24
COLTELLINO	HW	20x12x1.5	4,90
COLTELLINO	HW	30x12x1.5	5,16
COLTELLINO	HW	50x12x1.5	6,44

Coltelli per piallatrici

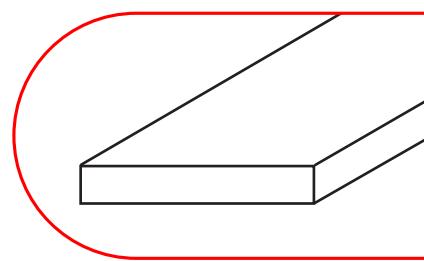


L	H	S	Euro
100	35	3	5,01
110	35	3	5,52
120	35	3	6,02
130	35	3	6,52
140	35	3	7,02
150	35	3	7,52
160	35	3	8,02
180	35	3	9,02
190	35	3	9,52
200	35	3	10,02
210	35	3	10,53
220	35	3	11,03
230	35	3	11,53
240	35	3	12,03
250	35	3	12,53
260	35	3	13,03
300	35	3	15,03
310	35	3	15,53
350	35	3	17,54
400	35	3	20,04
410	35	3	20,54
420	35	3	21,05
430	35	3	21,55
500	35	3	25,05
510	35	3	25,55
515	35	3	25,80
520	35	3	26,06
530	35	3	26,56
600	35	3	30,06
610	35	3	30,56
700	35	3	31,57
800	35	3	35,07
900	35	3	40,08
1000	35	3	50,10
1050	35	3	52,61

F.Z.

art. 1021

HSS 18% W



• Cutters for planner

Coltelli per piatta in HW

33

L H S mm

L H S mm

Euro

F.Z.

art. 1022

60x25x3	60x20x3	14,26
80x25x3	80x20x3	17,43
100x25x3	100x20x3	19,81
110x25x3	110x20x3	21,79
120x25x3	120x20x3	23,77
130x25x3	130x20x3	25,75
140x25x3	140x20x3	27,73
150x25x3	150x20x3	29,71
160x25x3	160x20x3	31,69
170x25x3	170x20x3	33,67
180x25x3	180x20x3	35,65
190x25x3	190x20x3	37,63
200x25x3	200x20x3	39,61
210x25x3	210x20x3	41,59
220x25x3	220x20x3	43,57
250x25x3	250x20x3	49,51
260x25x3	260x20x3	51,49
300x25x3	300x20x3	59,41
310x25x3	310x20x3	61,38
350x25x3	350x20x3	69,31
400x25x3	400x20x3	79,21
410x25x3		81,18
500x25x3		99,01
510x25x3		100,99

Misure speciali su richiesta

Special measurements on request

Spessori S: 4-5-6 mm. aumento 20%

Thickness S: 4-5-6 mm. +20% increase

Coltelli per piatta in HW

L H S mm	L H S mm	Euro	F.Z.	art. 1023
40x30x3	40x35x3	11,88		
60x30x3	60x35x3	14,26		
80x30x3	80x35x3	17,43		
100x30x3	100x35x3	19,81		
110x30x3	110x35x3	21,79		
120x30x3	120x35x3	23,77		
130x30x3	130x35x3	25,75		
140x30x3	140x35x3	27,73		
150x30x3	150x35x3	29,71		
160x30x3	160x35x3	31,69		
170x30x3	170x35x3	33,67		
180x30x3	180x35x3	35,65		
190x30x3	190x35x3	37,63		
200x30x3	200x35x3	39,61		
210x30x3	210x35x3	41,59		
220x30x3	220x35x3	43,57		
230x30x3	230x35x3	45,55		
240x30x3	240x35x3	47,53		
250x30x3	250x35x3	49,51		
260x30x3	260x35x3	51,49		
270x30x3	270x35x3	53,47		
300x30x3	300x35x3	59,41		
310x30x3	310x35x3	61,38		
320x30x3	320x35x3	63,37		
350x30x3	350x35x3	69,31		
400x30x3	400x35x3	79,21		
410x30x3	410x35x3	81,18		
430x30x3	430x35x3	85,15		
450x30x3	450x35x3	89,11		
460x30x3	460x35x3	91,01		
500x30x3	500x35x3	99,01		
510x30x3	510x35x3	100,99		
520x30x3	520x35x3	102,97		
530x30x3	530x35x3	104,95		
600x30x3	600x35x3	118,81		
610x30x3	610x35x3	120,79		
630x30x3	630x35x3	124,75		
640x30x3	640x35x3	126,73		
700x30x3	700x35x3	138,61		
710x30x3	710x35x3	140,58		
730x30x3	730x35x3	144,55		
800x30x3	800x35x3	158,41		
810x30x3	810x35x3	160,39		
860x30x3	860x35x3	170,29		
1000x30x3	1000x35x3	198,01		
1010x30x3	1010x35x3	199,99		
1050x30x3	1050x35x3	207,91		

Misure speciali su richiesta

Special measurements on request

Spessori S: 4-5-6 mm. aumento 20%

Thickness S: 4-5-6 mm. +20% increase

Modular drills**Punte componibili**

35

Z-103 040	Ø 4x57,5	Dx/Sx	S=10X20	17,45
Z-103 050	Ø 5x57,5	Dx/Sx	S=10X20	14,30
Z-103 060	Ø 6x57,5	Dx/Sx	S=10X20	14,76
Z-103 070	Ø 7x57,5	Dx/Sx	S=10X20	16,00
Z-103 080	Ø 8x57,5	Dx/Sx	S=10X20	15,70
Z-103 100	Ø10x57,5	Dx/Sx	S=10X20	18,12
Z-103 120	Ø12x57,5	Dx/Sx	S=10X20	19,47
Z-104 040	Ø 4x70	Dx/Sx	S=10X20	18,70
Z-104 050	Ø 5x70	Dx/Sx	S=10X20	15,10
Z-104 060	Ø 6x70	Dx/sx	S=10X20	15,78
Z-104 070	Ø 7x70	Dx/Sx	S=10X20	17,12
Z-104 080	Ø 8x70	Dx/Sx	S=10X20	16,44
Z-104 100	Ø10x70	Dx/Sx	S=10X20	18,70
Z-104 120	Ø12x70	Dx/sx	S=10X20	20,80

**Punte componibili
per fori ciechi**



**Modular drills
for blind holes**

Z-114 050	Ø 5x57,5	Dx/Sx	S=10X27	20,80
Z-114 060	Ø 6x57,5	Dx/Sx	S=10X27	21,48
Z-114 080	Ø 8x57,5	Dx/Sx	S=10X27	22,80
Z-114 100	Ø 10x57,5	Dx/Sx	S=10X27	25,50
Z-115 050	Ø 5x70	Dx/Sx	S=10X30	22,15
Z-115 060	Ø 6x70	Dx/Sx	S=10X30	22,82
Z-115 080	Ø 8x70	Dx/Sx	S=10X30	24,16
Z-115 100	Ø 10x70	Dx/Sx	S=10X30	26,85
*Z-116 040	Ø 4x57,5	Dx/Sx	S=10X27	26,18
*Z-116 050	Ø 5x57,5	Dx/Sx	S=10X27	24,16
*Z-116 060	Ø 6x57,5	Dx/Sx	S=10X27	28,19
*Z-117 040	Ø 4x70	Dx/Sx	S=10X30	27,50
*Z-117 050	Ø 5x70	Dx/Sx	S=10X30	25,50
*Z-117 060	Ø 6x70	Dx/Sx	S=10X30	30,88

*1116/117 HM integrato

**Punte componibili per
fori ciechi (incisori tondi)
in HM a grande rendimento**



**Modular drills for blind
holes (round cuts) in
high performance HM**



Z-124 050	Ø 5x70	DX/Sx	S=10X24	20,13
Z-124 060	Ø 6x70	Dx/Sx	S=10X24	20,80
Z-124 080	Ø 8x70	Dx/Sx	S=10X24	21,80
Z-124 100	Ø 10x70	Dx/Sx	S=10X24	23,50

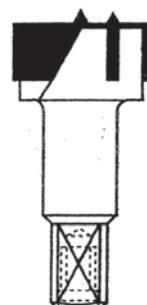
**Punte componibili
per fori passanti**



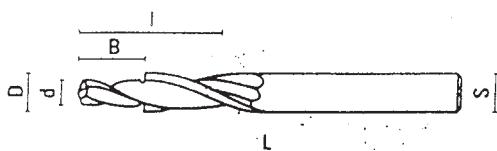
**Modular drills for
through holes**

Z-140 150	Ø 15x57	Dx/Sx	S=10X26	28,87
Z-140 200	Ø 20x57	Dx/Sx	S=10X26	30,55
Z-140 250	Ø 25x57	Dx/Sx	S=10X26	32,22
Z-140 260	Ø 26x57	Dx/Sx	S=10X26	32,90
Z-140 300	Ø 30x57	Dx/Sx	S=10X26	34,58
Z-140 350	Ø 35x57	Dx/Sx	S=10X26	35,58
Z-140 400	Ø 40x57	Dx/Sx	S=10X26	44,31
Z-141 350	Ø 35x70	Dx/Sx	S=10X26	41,62

**Punte componibili
per fori cerniera**



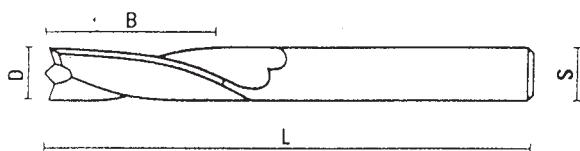
**Modular drills
for hinge holes**



Rotaz.	DX	d/D	B/I	L	S	Z	Euro
Z-230	030	3/6	8/15	60	6	2	23,50

Frese a due taglienti elicoidali per alluminio

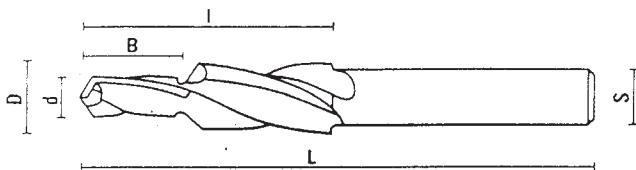
Cutters with two helical edges for aluminium



Rotaz.	DX	D	B	L	S	Z	Euro
Z-250	040	4	12	63	6	2	18,12
Z-250	050	5	15	68	6	2	18,12
Z-250	060	6	25	68	6	2	18,12
Z-250	080	8	25	88	8	2	20,13
Z-250	100	10	30	95	10	2	24,16
Z-250	120	12	35	110	12	2	30,21
Z-250	140	14	37	110	14	3	39,61
Z-250	160	16	40	123	16	3	49,68
Z-250	180	18	40	123	18	3	63,11
Z-250	200	20	45	130	20	3	73,85

Frese a taglienti elicoidali hss per alluminio

HSS cutters with helical edges for aluminium



Rotaz.	DX	d/D	B/I	L	S	Z	Euro
Z-290	055	5,5/11,5	12/35	100	10	2	43,64
Z-290	060	6/11,5	12/35	100	10	2	43,64
Z-290	061	6/12	15/35	80	10	2	43,64
Z-290	062	6/14	15/35	80	10	2	50,34
Z-290	065	6,5/13,5	15/35	100	101	2	50,34
Z-290	070	7/13	12/35	100	10	2	50,34
Z-290	071	7/14	12/35	100	10	2	50,34
Z-290	072	7/15	12/35	100	10	2	53,71
Z-290	080	8/15	12/35	100	10	2	53,71
Z-291	055	55/11,5	12/35	120	12	2	50,34
Z-291	060	6/12	12/35	100	12	2	43,64
Z-291	065	6,5/11,5	12/35	100	12	2	43,64
Z-291	066	6,5/12	18/45	120	12	2	53,70
Z-291	067	6,5/13,5	12/35	120	12	2	53,70
Z-291	085	8,5/14	12/35	100	12	2	53,70

Punte a due diametri hss per alluminio

HSS drills with two diameters for aluminium

Si producono con quantità minima di 10 pz. per diametro. Per foratrici

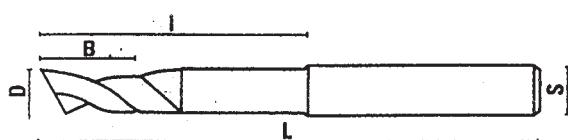
*Produced in minimum quantities of 10 pcs. per diameter.
For perforating machines.*

Cutters**Frese****37**

Rotaz.	DX	D	B	L	S	Z	Euro
Z-201 030		3	12	60	8	1	16,10
Z-201 040		4	12	60	8	1	16,10
Z-201 041		4	40	100	8	1	22,82
Z-201 050		5	14	70	8	1	16,82
Z-201 051		5	40	100	8	1	22,82
Z-201 060		6	14	70	8	1	16,44
Z-201 061		6	40	100	8	1	22,82
Z-201 070		7	14	70	8	1	18,79
Z-201 080		8	14	80	8	1	16,44
Z-201 081		8	30	100	8	1	22,82
Z-201 090		9	14	80	8	1	22,82
Z-201 100		10	14	80	8	1	21,48
Z-201 120		12	14	80	8	1	28,19
Z-211 030		3	12	60	6	1	16,10
Z-211 040		4	12	60	6	1	16,10
Z-211 050		5	14	60	6	1	16,10
Z-211 060		6	14	60	6	1	16,44
Z-211 061		6	27	70	6	1	21,48
Z-221 030		3	12	60	10	1	17,79
Z-221 040		4	12	60	10	1	17,79
Z-221 050		5	14	60	10	1	17,79
Z-221 060		6	14	60	10	1	18,12
Z-221 080		8	14	80	10	1	19,13

Frese hss elicoidali per alluminio

HSS helical cutters for aluminium



Rotaz.	DX	D	B/I	L	S	Z	Euro
Z-202 040		4	16/55	90	8	1	22,82
Z-202 050		5	14/35	80	8	1	21,81
Z-202 051		5	14/35	120	8	1	24,16
Z-202 052		5	16/55	90	8	1	23,16
Z-202 060		6	14/55	85	8	1	23,16
Z-202 061		6	14/35	80	8	1	22,82
Z-202 062		6	14/45	90	8	1	23,16
Z-202 080		8	14/60	80	8	1	21,81
Z-202 081		8	14/90	120	8	1	24,16
Z-202 082		8	14/70	100	8	1	23,16
Z-202 100		10	14/60	80	10	1	26,85
Z-202 101		10	14/70	100	10	1	29,21
Z-202 102		10	14/95	120	10	1	32,22

Frese hss elicoidali per alluminio tipo lungo

HSS helical cutters for long aluminium

Condizioni generali di fornitura

Le lame non comprese nel catalogo, sono da ritenersi "lame non di serie - lame speciali", possono essere progettate e costruite in base alle vostre esigenze, a preventivo da concordare.

Specifiche tecniche:

- Dal Ø minimo di 100 mm. al Ø massimo di 800 mm.
- Con varie tipologie e numero di denti.
- Spessore massimo 6 mm.

Lavorazioni speciali:

	Euro
• Fori diversi da catalogo fino a Ø 50 mm.	5.17
• Fori diversi da catalogo oltre a Ø 50 mm.	9.30
• Fori di fissaggio e trascinamento.	cad. 1.04
• Boccole di riduzione fori	cad. 2.59

General terms of sales

The saw blades not included in the catalogue are: "not standard star blade-special saw blades". This saw blade can be designed and manufactured upon your request.

Special machining:

- From Ø min. 100 mm. to max Ø 800 mm.
- Different number of teeth.
- Min thickness 6 mm.

Special machining:

	Euro
• Holes different from catalogue up to 50 mm.	5.17
• Holes different from catalogue over 50 mm.	9.30
• Fixing and drawing holes.	cad. 1.04
• Hole reductions bushes	cad. 2.59

STAND F.Z.



TECNOLOGIA F.Z.





F.II

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