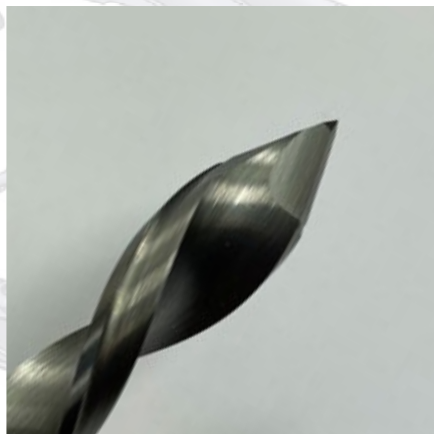


aliprandi

UTENSILI PER LEGNO ALLUMINIO E MATERIE PLASTICHE



CATALOGO GENERALE 10/22



aliprandi

La ALIPRANDI s.n.c. è specializzata nella costruzione di utensili per la lavorazione del legno in metallo duro integrale e riportati.

Con una pluriennale esperienza nello sviluppo e nella produzione di utensili, oggi - attraverso le pagine di questo Catalogo Generale - la ALIPRANDI s.n.c. fornisce prova del suo know-how nel settore, mettendolo a disposizione della sua clientela.

Avvalendosi di personale qualificato, di materiale di primissima scelta e di tecnologia di costruzione d'avanguardia, l'Azienda - alla continua ricerca di soluzioni adeguate per risolvere e soddisfare ogni esigenza di lavorazione - offre un'ampia gamma di utensili di ottima qualità e performance.

L'impegno, la passione e la professionalità dimostrati in tutti gli anni di attività hanno inoltre permesso di ottenere la fiducia dei clienti su scala nazionale ed internazionale.

The firm ALIPRANDI s.n.c. is specialized in the production of wood working tools either in solid carbide or carbide-tipped.

With a many year experience in the development and production of tools, the firm ALIPRANDI s.n.c. - through the pages of this General Catalogue - gives evidence of its know-how in this field, putting it at customer's disposal.

With qualified staff, top quality materials and best technology, the Firm - in continuous research of solutions - provides a wide product line with good quality and performance tools.

The care, the passion and the skilled work, always shown, have allowed to gain the customers' reliance on national and international scale.

CONDIZIONI GENERALI DI VENDITA

PREZZI

I prezzi si intendono per utensili di costruzione di serie; eventuali modifiche, consensualmente concordate, dovranno risultare per iscritto.

SPEDIZIONE

La spedizione della merce si intende effettuata a rischio e pericolo del committente. In caso di avarie e manomissioni durante il trasporto, il destinatario dovrà rivolgersi esclusivamente ai vettori. Eventuali reclami dovranno, sotto pena di decadenza, essere inoltrati entro 8 giorni dal ricevimento della merce.

CONSEGNE

I termini di consegna non sono impegnativi, ma subordinati sempre alla fabbricazione.

PAGAMENTI

Tutti i pagamenti dovranno essere effettuati direttamente alla sede. Non sono ammessi arrotondamenti e trattenute arbitrarie.

ORDINI

Per esigenze produttive non si accettano variazioni, modifiche o annullamento di ordini trascorsi 3 giorni dal loro ricevimento, salvo nostra accettazione.

GARANZIE

Gli utensili Aliprandi sono costruiti rispettando norme antinfortunistiche. Tutti gli utensili sono garantiti per l'utilizzo specifico per cui l'utensile è stato costruito, purché non presentino inconvenienti dovuti a errato uso o manomissioni.

Aliprandi si riserva di effettuare senza preavviso modifiche tecniche atte a migliorare la funzionalità produttiva.

GENERAL SALE CONDITIONS

PRICES

Prices are only for standard production.

Changes or modifications, mutually arranged, must result in writing.

SHIPMENT

Shipment of the goods is made at the Customer's risk.

In case of damages or tampering during the carriage, the consignee must apply to carriers.

Possible claims to the supply must be forwarded within 8 days from the receipt of the goods, under pain of decline.

DELIVERIES

Delivery terms are not binding, but always subject to the production.

PAYMENTS

All payments must be issued directly to us.

Rounding off and deductions are not permitted.

ORDERS

For production needs we don't accept changes or cancellations of orders

after 3 days of their receipt, excepting our acceptance.

GUARANTEES

Aliprandi tools are manufactured respecting safety rules.

All tools are guaranteed for the specific use for which the tool has been manufactured; any guarantee will be recognized in case of wrong use or tampering.

Aliprandi reserves the right to carry out any technical changes deemed necessary to improve product performance without prior notice.

FRESE A COLTELLI
Cutters with knives

1

FRESE PER PANTOGRAFO
Straight router bits

2

FRESE INTEGRALI ELICOIDALI
Solid carbide spiral milling cutters

3

PUNTE FORATRICI
Drills

4

MANDRINI E ATTACCHI
Chucks and clamping systems

5

FRESE CAVETTATRICI E PER PROFILARE
Slot-mortisers and profiling bits

6

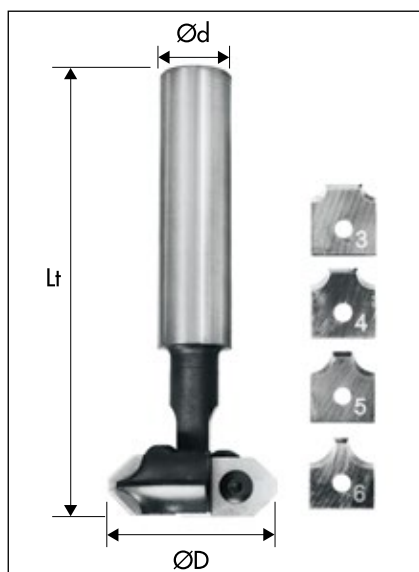
COLTELLI
Knives

7

FRESE IN DIAMANTE POLICRISTALLINO
PCD milling cutters



8



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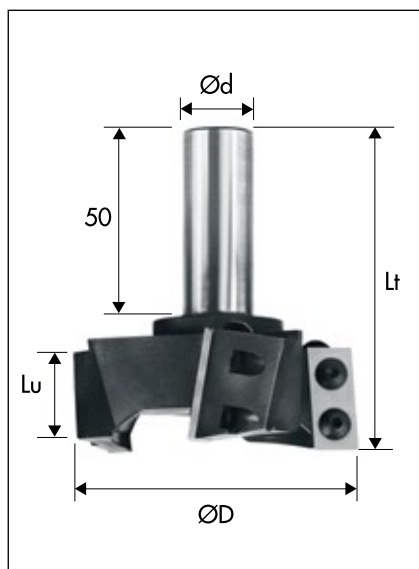
Frese a coltelli Z = 2 per raggi e smussi
Profiling cutters with knives Z=2 for radius and 45° chamfer

Ø D mm	λ - R mm	Lt mm	Ø d attacco mm	Codice ordine
45	3	120	20x75	01630003000
45	4	120	20x75	01630004000
45	5	120	20x75	01630005000
45	6	120	20x75	01630006000
45	45°	120	20x75	01630045000

SET CASSETTA COMPLETA

BOX16300000

Ricambi - Spare parts		Codice ordine
COLTELLO	R=3	0COLT0000R3
COLTELLO	R=4	0COLT0000R4
COLTELLO	R=5	0COLT0000R5
COLTELLO	R=6	0COLT0000R6
COLTELLO	45°	0COLT000045
VITE TORX T15	M 4x6	0VITIM4X600
CHIAVE TORX	T 15	0TORXT15000

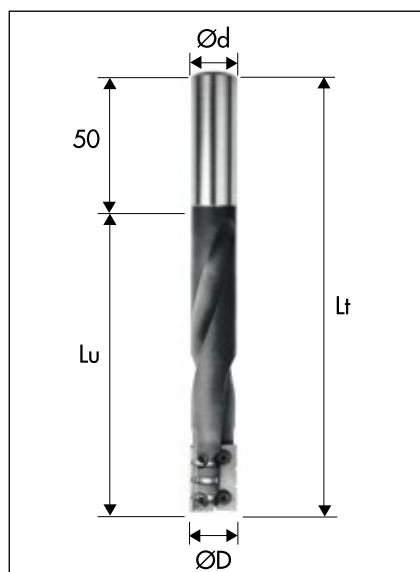


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Frese a coltelli per spianare Z = 3
Profiling cutters with knives for flattening Z=3

Ø D mm	λ - R mm	Lt mm	Ø d attacco mm	Codice ordine
80	90°	85	20x50	01640090000

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 30x12x1,5	01640012030
VITE TORX T15	M 4x6	0VITIM4X600
CHIAVE TORX	T 15	0TORXT15000

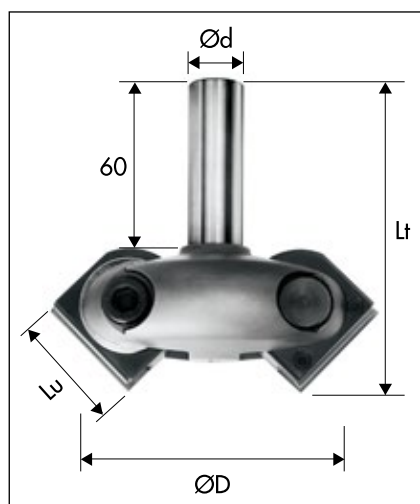


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Frese a coltelli per cava serratura Z=2/**corpo in materiale speciale**
Router bits with knives for lock slot Z=2/**body with special material**

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
14	100	150	14x50	01650014000
16	100	150	16x50	01650016000
16	120	170	16x50	a richiesta

Ricambi - Spare parts			Codice ordine
COLTELLO Ø 14	mm. 23x6x1,5		0COLT14000
COLTELLO Ø 14	mm. 23x6x1,5 - 2RT		0COLT14-2RT
COLTELLO Ø 14	mm. 23x6x1,5 - 3RT		0COLT14-3RT
COLTELLO Ø 16	mm. 23x7x1,5		0COLT16000
COLTELLO Ø 16	mm. 23x7x1,5 - 2RT		0COLT16-2RT
COLTELLO Ø 16	mm. 23x7x1,5 - 3RT		0COLT16-3RT
VITE	M 3x4		OVITIM3X400
CHIAVE TORX	T8		OTORXT80000

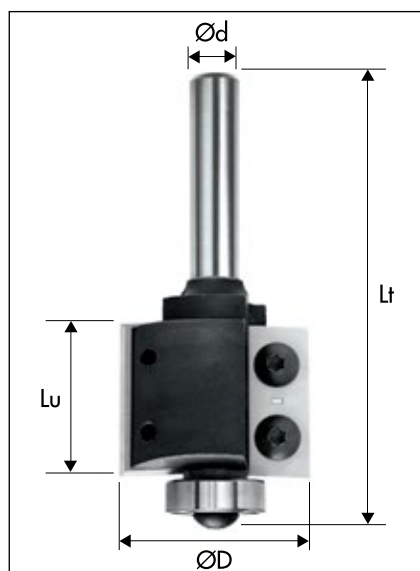


166

Frese a coltelli per smussi con angolazione variabile +45° -45° Z=2
Router bits with knives for chamfers with variable angles +45° -45° Z=2

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
100	40	100	20x60	01660100020
100	40	100	25x60	01660100025

Ricambi - Spare parts			Codice ordine
COLTELLO	mm. 40x12x1,5		01810012040
VITE	M 6x10		OVITIM6X100
STAFFETTA			OSTAFFETTA1

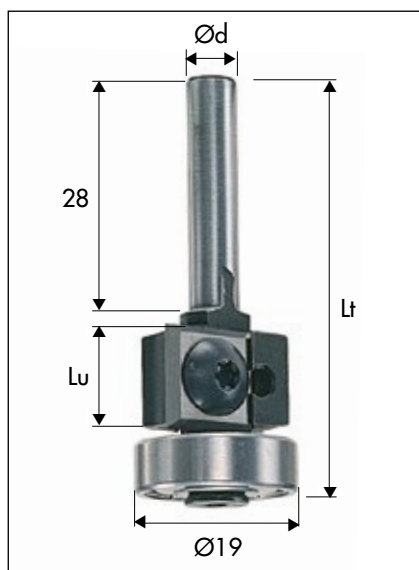


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Frese a coltelli per battute con cuscinetti guida
Router bits with knives for beating with guide bearings

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
36	30	76	8	01670036008
36	30	76	12	01670036012

Ricambi - Spare parts			Codice ordine
COLTELLO	mm. 30x12x1,5		01810012030
VITE TORK T15	M 4x6		OVITIM4X600
CHIAVE TORX	T 15		OTORXT15000
CUSCINETTO	D. 16 battuta mm.10		0CUSCINET10
CUSCINETTO	D. 19 battuta mm. 8,5		0CUSCINET85

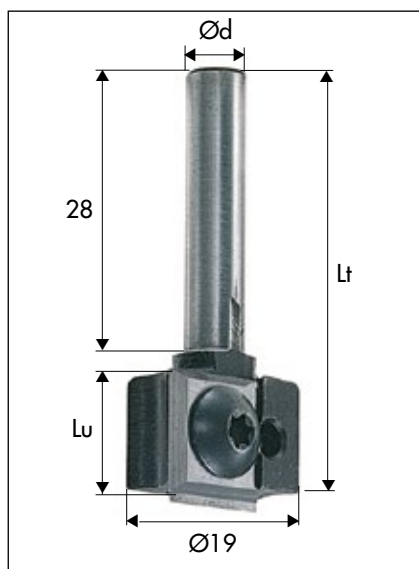


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Rifilatori con coltelli reversibili Z = 2
Trimming bits with reversible knives Z = 2

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
19	12	49	6	01680019060
19	12	49	8	01680019080
19	30	67	12	01680019120

Ricambi - Spare parts			Codice ordine
COLTELLO	mm. 12x12x1,5		08660012012
COLTELLO	mm. 30x12x1,5		08660030012
CUSCINETTO	Ø 19 F.6		0CUSCINETTO
VITE TORX T15	M 4x6		OVITIM4X600
VITE SVASATA	M 4x5		OVITIM4X500
CHIAVE TORX	T 15		OTORXT15000



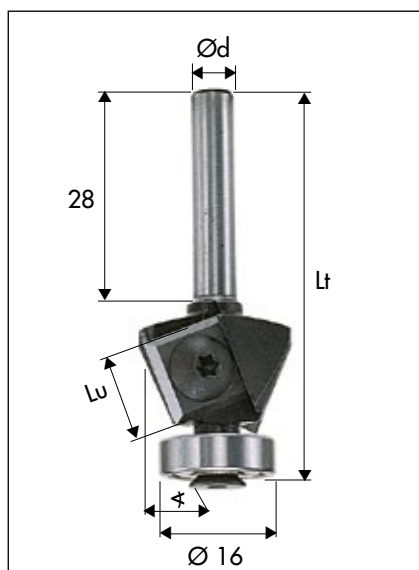
169

Rifilatori con coltelli reversibili Z = 2
Trimming bits with reversible knives Z = 2

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
19	12	42	6	01690019060
19	12	42	8	01690019080

Ricambi - Spare parts			Codice ordine
COLTELLO	mm. 12x12x1,5		08660012012
VITE TORX T15	M 4x6		OVITIM4X600
CHIAVE TORX	T 15		OTORXT15000



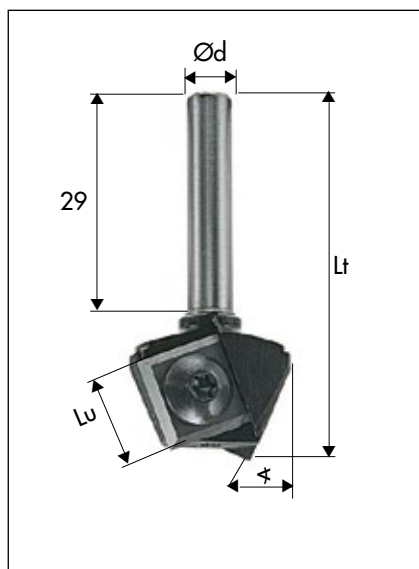


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Rifilatori con coltelli reversibili Z = 2
Trimming bits with reversible knives Z = 2

	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
22°	12	53	6	01700022060
22°	12	53	8	01700022080

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 12x12x1,5	08660012012
CUSCINETTO	Ø 16 F.5	0CUSCINETTO
VITE TORX T15	M 4x6	0VITIM4X600
VITE SVASATA	M 4x5	0VITIM4X500
CHIAVE TORX	T 15	0TORXT15000

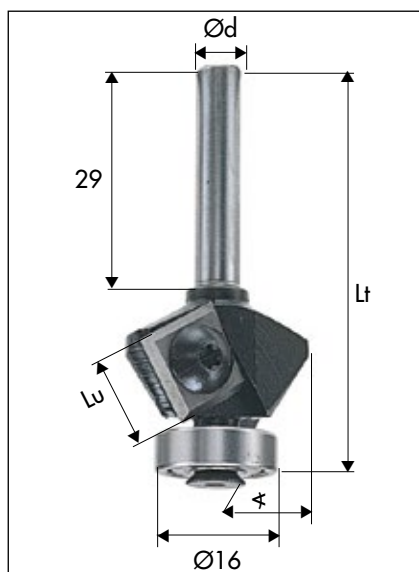


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Rifilatori con coltelli reversibili Z = 2
Trimming bits with reversible knives Z = 2

	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
22°	12	47	6	01710022060
22°	12	47	8	01710022080

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 12x12x1,5	08660012012
VITE TORX T15	M 4x6	0VITIM4X600
CHIAVE TORX	T 15	0TORXT15000

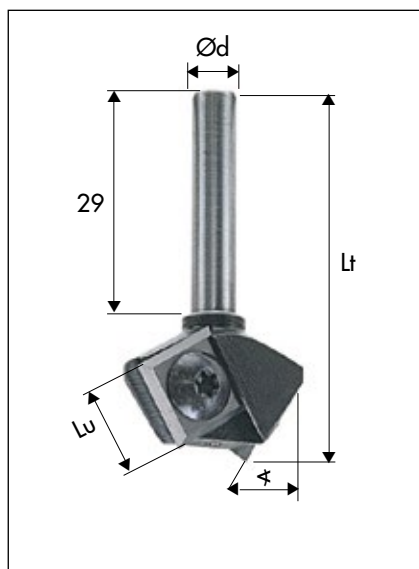


172

Rifilatori con coltelli reversibili Z = 2
Trimming bits with reversible knives Z = 2

	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
30°	12	54	6	01720030060
30°	12	54	8	01720030080

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 12x12x1,5	08660012012
CUSCINETTO	Ø 16 F.5	0CUSCINETTO
VITE TORX T15	M 4x6	0VITIM4X600
VITE SVASATA	M 4x5	0VITIM4X500
CHIAVE TORX	T 15	0TORXT15000

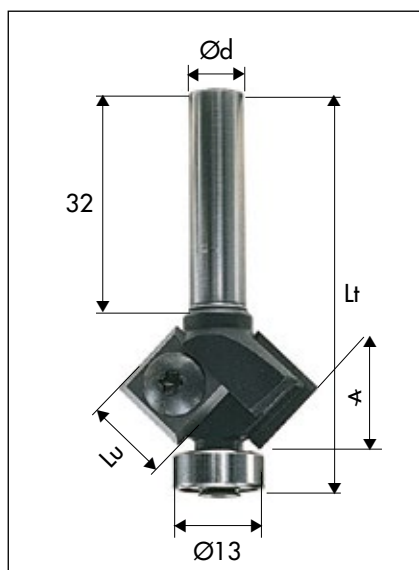


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Rifilatori con coltelli reversibili Z = 2
Trimming bits with reversible knives Z = 2

	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
30°	12	48	6	01730030060
30°	12	48	8	01730030080

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 12x12x1,5	08660012012
VITE TORX T15	M 4x6	0VITIM4X600
CHIAVE TORX	T 15	0TORXT15000

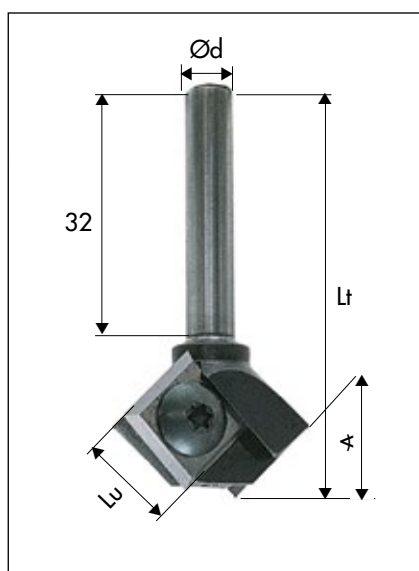


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Rifilatori con coltelli reversibili Z = 2
Trimming bits with reversible knives Z = 2

	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
45°	12	56	6	01740045060
45°	12	56	8	01740045080

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 12x12x1,5	08660012012
CUSCINETTO	Ø 13 F.4	0CUSCINETTO
VITE TORX T15	M 4x6	0VITIM4X600
VITE SVASATA	M 3x6	0VITIM3X600
CHIAVE TORX	T 15	0TORXT15000

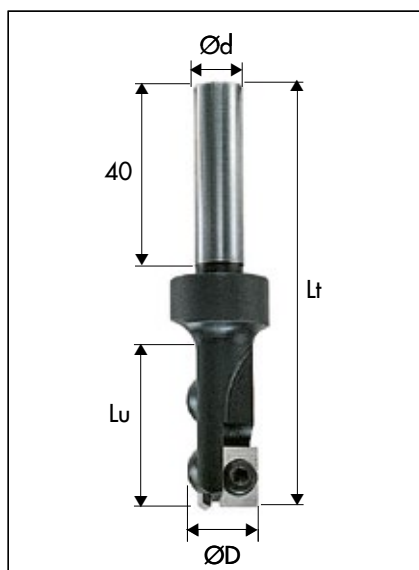


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Rifilatori con coltelli reversibili Z = 2
Trimming bits with reversible knives Z = 2

	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
45°	12	50	6	01750045060
45°	12	50	8	01750045080

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 12x12x1,5	08660012012
VITE TORX T15	M 4x6	0VITIM4X600
CHIAVE TORX	T 15	0TORXT15000

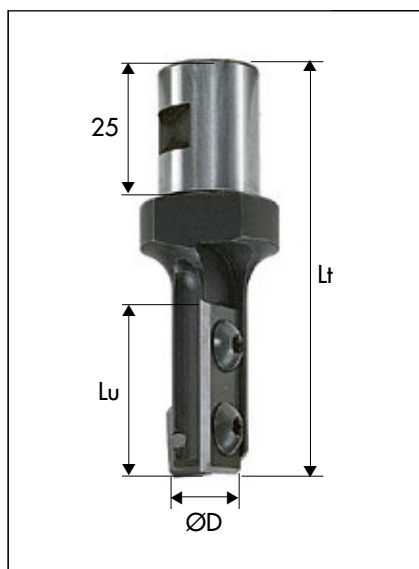


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Frese per pantografo con coltelli reversibili Z = 1+1
Milling cutters for routers with reversible knives Z = 1+1

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
15	30	85	10	01760015100
15	30	85	12	01760015120
16	30	85	10	01760016100
16	30	85	12	01760016120
18	30	85	10	01760018100
18	30	85	12	01760018120
20	30	85	10	01760020100
20	30	85	12	01760020120

Ø D mm.	COLTELLO DI TESTA	COLTELLO TAGLIENTE	VITE DI TESTA	VITE TAGLIENTE	CHIAVE TORX
15	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 3,5x4 cod. 0VITIM35X40	M 3,5x4 cod. 0VITIM35X40	T 15 cod. 0TORXT15000
16	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 3,5x4 cod. 0VITIM35X40	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000
18	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000
20	mm. 9,6x12x1,5 cod. 01810009612	mm. 30x12x1,5 cod. 01810012030	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000

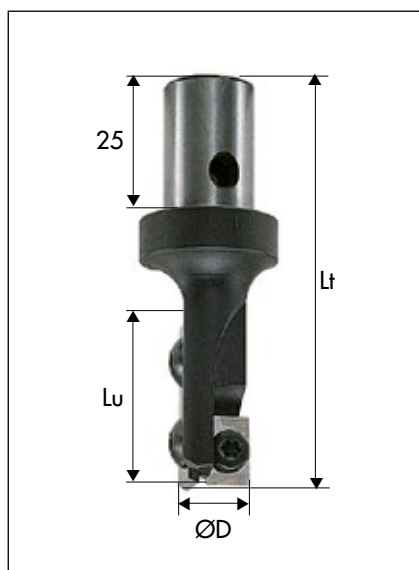


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Frese per pantografo con coltelli reversibili Z = 1+1
Milling cutters for routers with reversible knives Z = 1+1

Ø D mm	Lu mm	Lt mm	Attacco	Codice ordine
15	30	70	M 12x1	01770015002
16	30	70	M 12x1	01770016002
18	30	70	M 12x1	01770018002
20	30	70	M 12x1	01770020002

Ø D mm.	COLTELLO DI TESTA	COLTELLO TAGLIENTE	VITE DI TESTA	VITE TAGLIENTE	CHIAVE TORX
15	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 3,5x4 cod. 0VITIM35X40	M 3,5x4 cod. 0VITIM35X40	T 15 cod. 0TORXT15000
16	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 3,5x4 cod. 0VITIM35X40	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000
18	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000
20	mm. 9,6x12x1,5 cod. 01810009612	mm. 30x12x1,5 cod. 01810012030	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000

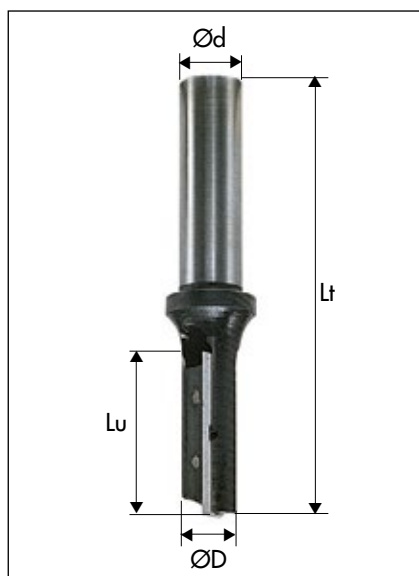


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Frese per pantografo con coltelli reversibili $Z = 1+1$
 Milling cutters for routers with reversible knives $Z = 1+1$

Ø D mm	Lu mm	Lt mm	Attacco	Codice ordine
15	30	70	M 10x1,5	01780015001
16	30	70	M 10x1,5	01780016001
18	30	70	M 10x1,5	01780018001
20	30	70	M 10x1,5	01780020001

Ø D mm.	COLTELLO DI TESTA	COLTELLO TAGLIENTE	VITE DI TESTA	VITE TAGLIENTE	CHIAVE TORX
15	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 3,5x4 cod. 0VITIM35X40	M 3,5x4 cod. 0VITIM35X40	T 15 cod. 0TORXT15000
16	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 3,5x4 cod. 0VITIM35X40	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000
18	mm. 7,6x12x1,5 cod. 01810007612	mm. 30x12x1,5 cod. 01810012030	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000
20	mm. 9,6x12x1,5 cod. 01810009612	mm. 30x12x1,5 cod. 01810012030	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000

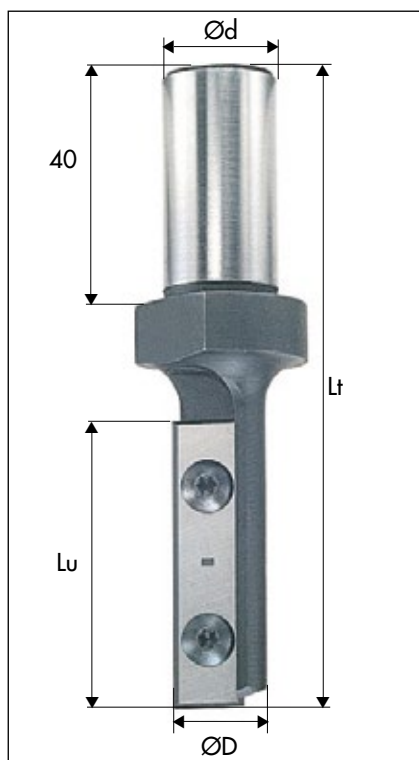


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Frese con coltelli a gettare $Z=1$
 Milling cutters with reversible knives $Z = 1$

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
8	20	60	8	01782008008
8	20	67	12	01782008012
10	30	70	8	01782010008
10	30	80	12	01782010012
12	30	70	8	01782012008
12	30	80	12	01782012012
12	50	103	12	01782212012
14	30	73	8	01782014008

Ø D mm.	COLTELLO	STAFFETTA BLOCCAGGIO	VITE BLOCCAGGIO	CHIAVE TORX
8	mm. 20x4,1x1,1	staffa 20	M25S365T08	Torx T08
10	mm. 30x5,5x1,1	staffa 30	M25S365T08	Torx T08
12x30	mm. 30x5,5x1,1	staffa 30	M25S365T08	Torx T08
12x50	mm. 50x5,5x1,1	staffa 50	grano M4x4	esagonale 2 mm.
14	mm. 30x5,5x1,1	staffa 30	M25S365T08	Torx T08



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Frese per pantografo con coltelli reversibili

Z = 1+1 rotazione dx e sx

Milling cutters for routers with reversible knives Z = 1+1

Right- and lefthand rotation

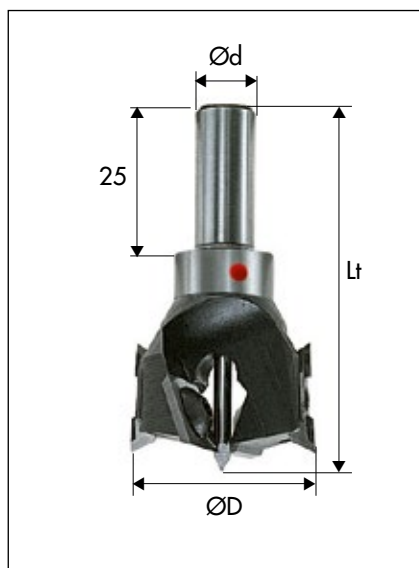
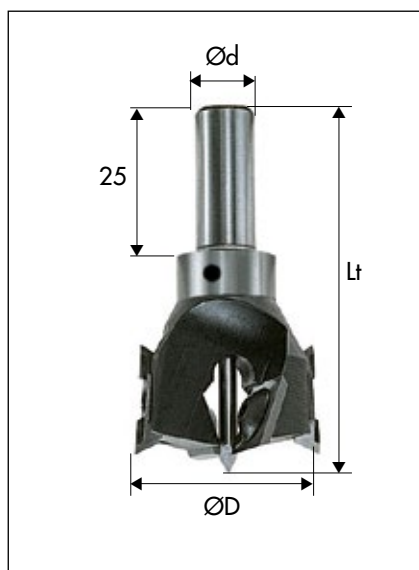
Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
16 dx	50	120	20	01810016050
18 dx	50	120	20	01810018050
20 dx	50	120	20	01810020050
16 sx	50	120	20	01811016050
18 sx	50	120	20	01811018050
20 sx	50	120	20	01811020050

Ø D mm.	COLTELLO DI TESTA	COLTELLO TAGLIENTE	VITE DI TESTA	VITE TAGLIANTE	CHIAVE TORX
16	mm. 7,6x12x1,5 cod. 01810007612	mm. 50x12x1,5 cod. 01810012050	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000
18	mm. 7,6x12x1,5 cod. 01810007612	mm. 50x12x1,5 cod. 01810012050	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000
20	mm. 9,6x12x1,5 cod. 01810009612	mm. 50x12x1,5 cod. 01810012050	M 4x4 cod. 0VITIM4X400	M 4x4 cod. 0VITIM4X400 M 4x6 cod. 0VITIM4X600	T 15 cod. 0TORXT15000



182

Punte per cerniere con coltelli reversibili Z = 2+2 - Rotazione dx e sx
 Boring bits for hinges with reversible knives Z = 2+2
 Right- and lefthand rotation

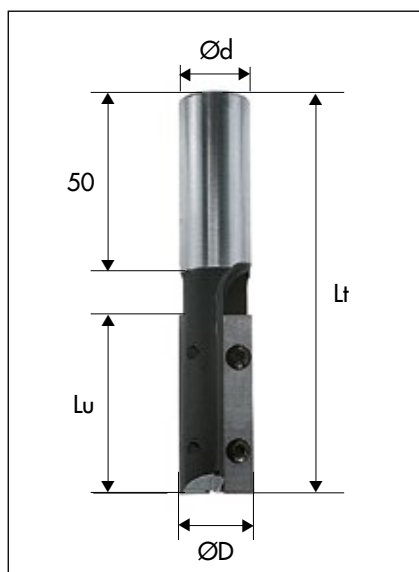


Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
25 dx	57,5	10	01820025000
25 sx	57,5	10	01820025001
25 dx	70	10	01820025070
25 sx	70	10	01821025070
26 dx	57,5	10	01820026000
26 sx	57,5	10	01820026001
26 dx	70	10	01820026070
26 sx	70	10	01821026070
30 dx	57,5	10	01820030000
30 sx	57,5	10	01820030001
30 dx	70	10	01820030070
30 sx	70	10	01821030070
35 dx	57,5	10	01820035000
35 sx	57,5	10	01820035001
35 dx	70	10	01820035070
35 sx	70	10	01821035070
40 dx	57,5	10	01820040000
40 sx	57,5	10	01820040001
40 dx	70	10	01820040070
40 sx	70	10	01821040070

Ricambi - Spare parts		Codice ordine
RASANTI	mm. 18x8	ORASANTI000
COLTELLO Ø 25	mm. 10,65x12x1,5	0COLTELLO25
COLTELLO Ø 26	mm. 11,15x12x1,5	0COLTELLO26
COLTELLO Ø 30	mm. 13,15x12x1,5	0COLTELLO30
COLTELLO Ø 35	mm. 15,65x12x1,5	0COLTELLO35
COLTELLO Ø 40	mm. 18,15x12x1,5	0COLTELLO40
PUNTA CENTRALE	mm. 3x40	0CENTRINOD3
VITI PER RASANTI	M 4	OVITIM40000
VITI TORX T 15	M 4x6	OVITIM4X600
CHIAVE TORX	T 15	OTORXT15000

184

Frese per contornare a coltelli diritti Z = 2+1
Router bits with straight knives Z = 2+1

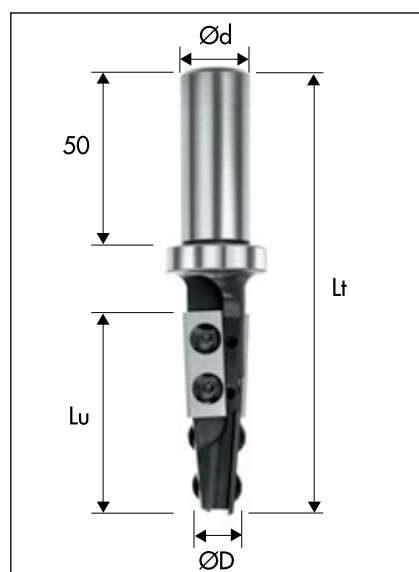


Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
20	30	90	20x50	01840020030
20	50	110	20x50	01840020050

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 29,5x9x1,5	0COLTELLO29
COLTELLO	mm. 49,5x9x1,5	0COLTELLO49
VITE TORX T15	M 4x4	0VITIM4X400
CHIAVE TORX	T 15	0TORXT15000

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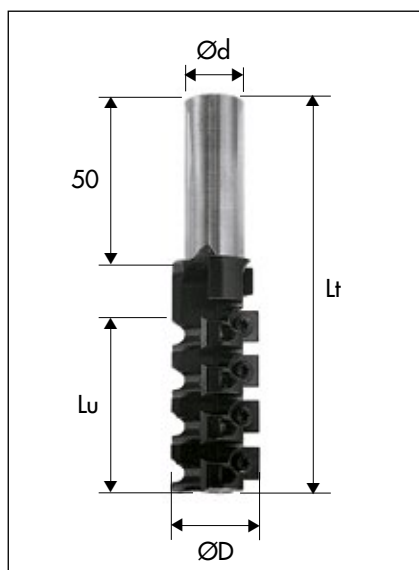
Frese per contornare a coltelli alternati Z = 2+2
Router bits with alternate knives Z = 2+2



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
20	52	125	20x50	01850020052

Ricambi - Spare parts		Codice ordine
COLTELLO	mm. 30x12x1,5	08660030012
VITE TORX T15	M 4x6	0VITIM4X600
CHIAVE TORX	T 15	0TORXT15000
COLTELLO	mm. 30x12x1,5A	01810012030





186

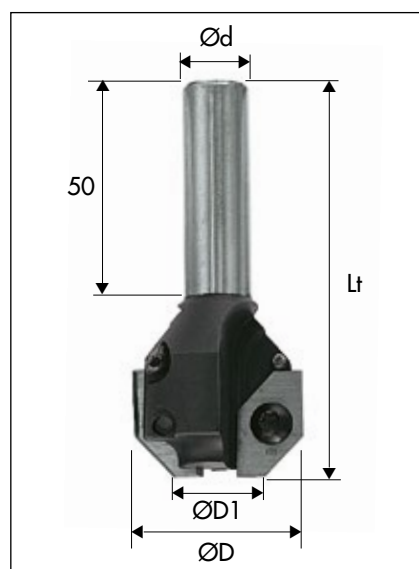
Frese per sgrossatura a coltelli Z = 4
Router bits for roughing with knives Z = 4

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
40	34	100	20x50	01860040034
40	56	121	20x50	01860040056
40	67	132	20x50	01860040067

Ricambi - Spare parts			Codice ordine
COLTELLO	mm. 12x12x1,5		08660012012
VITE TORX T15	M 3,5x6		0VITIM35X60
CHIAVE TORX	T 15		0TORXT15000

187

Frese profilate a coltelli: raggio concavo - raggio convesso - smusso 45°
Profiling cutters with knives: concave radius - convex radius - 45° chamfer



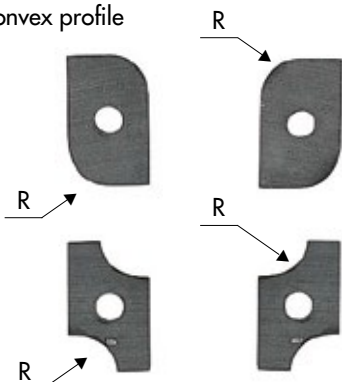
Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
28	80	12x50	01870028012
SET CASSETTA COMPLETA			BOX18700000

Ricambi profilo concavo - Spare parts concave profile			Codice ordine
COLTELLO	Ø D1 = 22	R=3	0COLTCONC03
COLTELLO	Ø D1 = 20	R=4	0COLTCONC04
COLTELLO	Ø D1 = 18	R=5	0COLTCONC05
COLTELLO	Ø D1 = 16	R=6	0COLTCONC06
VITE TORX T15	M 4x6		0VITIM4X600
CHIAVE TORX	T 15		0TORXT15000

Ricambi profilo convesso - Spare parts convex profile			Codice ordine
COLTELLO	Ø D1 = 22	R=3	0COLTCONV03
COLTELLO	Ø D1 = 20	R=4	0COLTCONV04
COLTELLO	Ø D1 = 18	R=5	0COLTCONV05
COLTELLO	Ø D1 = 16	R=6	0COLTCONV06
VITE TORX T15	M 4x6		0VITIM4X600
CHIAVE TORX	T 15		0TORXT15000

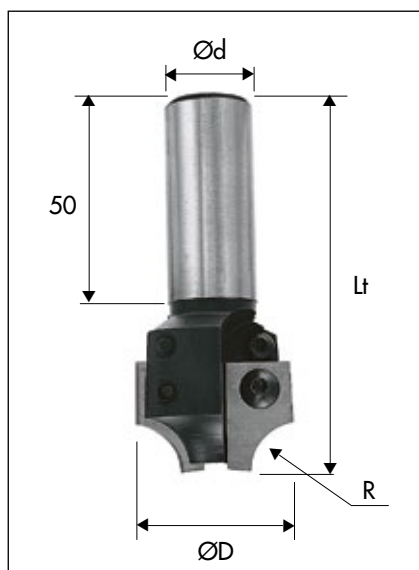
Ricambi per smusso 45° - Spare parts for 45° chamfer			Codice ordine
COLTELLO	Ø D1 = 16	45°	0COLTELLO45
VITE TORX T15	M 4x6		0VITIM4X600
CHIAVE TORX	T 15		0TORXT15000

PROFILO CONVESSO
convex profile



PROFILO CONCAVO
concave profile

Tutti i coltelli sono applicabili allo stesso corpo fresa.
All knives apply to the same body.

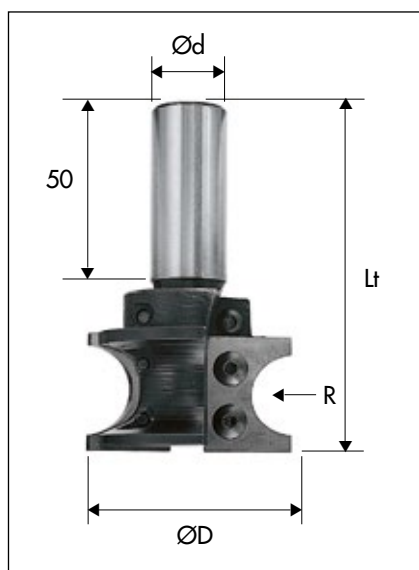


188

Frese profilate a coltelli
Profiling cutters with knives

Ø D mm	R mm	Lt mm	Ø d attacco mm	Codice ordine
32	8	80	20x50	01880008000
36	10	85	20x50	01880010000
40	12	85	20x50	01880012000
46	15	90	20x50	01880015000
56	20	95	20x50	01880020000

Ricambi - Spare parts			Codice ordine
COLTELLO			0COLTPROFIL
VITE TORX T15			M 4x6 0VITIM4X600
CHIAVE TORX			T 15 0TORXT15000



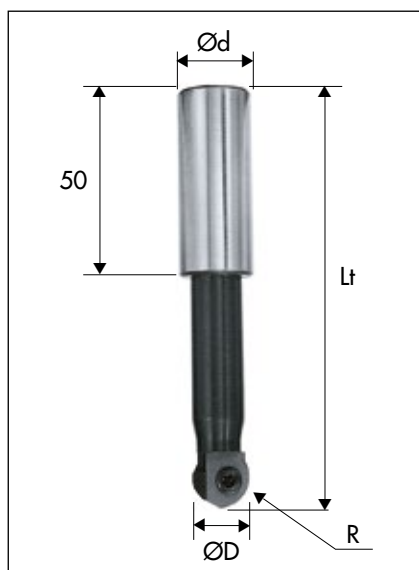
189

Frese profilate a coltelli
Profiling cutters with knives

Ø D mm	R mm	Lt mm	Ø d attacco mm	Codice ordine
50	5	90	20x50	01890005000
60	7,5	95	20x50	01890007500
60	10	100	20x50	01890010000
70	12,5	100	20x50	01890012500

Ricambi - Spare parts			Codice ordine
COLTELLO			R=5 0COLTELLO05
COLTELLO			R=7,5 0COLTELLO75
COLTELLO			R=10 0COLTELLO10
COLTELLO			R=12,5 0COLTELL125
VITE TORX T15			M 4x6 0VITIM4X600
CHIAVE TORX			T 15 0TORXT15000



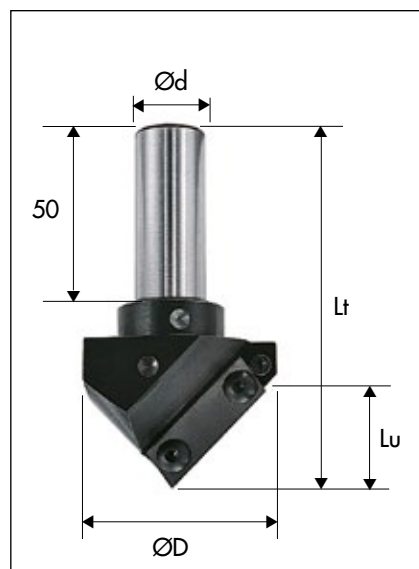


190

Frese a raggio convesso Z=1
Profiling cutters with convex radius Z=1

Ø D mm	R mm	Lt mm	Ø d attacco mm	Codice ordine
10	5	100	20x50	01900005000
12	6	100	20x50	01900006000
16	8	110	20x50	01900008000
20	10	110	20x50	01900010000
30	15	115	20x50	01900015000

Ricambi - Spare parts			Codice ordine
COLTELLO	R=5		0COLTELLOR5
COLTELLO	R=6		0COLTELLOR6
COLTELLO	R=8		0COLTELLOR8
COLTELLO	R=10		0COLTELLR10
COLTELLO	R=15		0COLTELLR15
VITE TORX T15	M 3,5x5		0VITIM35X50
VITE TORX T15	M 4x6		0VITIM4X600
CHIAVE TORX	T 15		0TORXT15000



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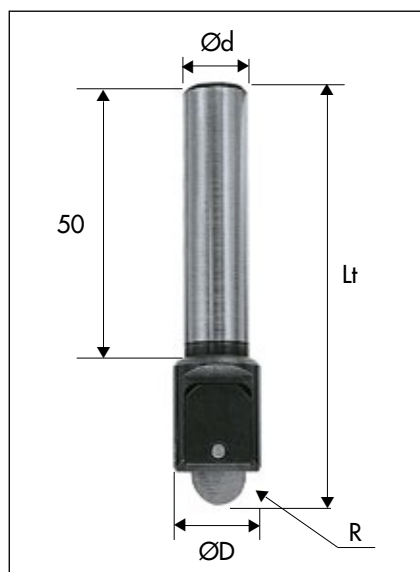
Frese a coltelli con smusso 45° Z=1
Cutters with knives: 45° chamfer Z=1

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
58	26	105	20x50	01910000045

Ricambi - Spare parts			Codice ordine
COLTELLO	mm. 39x12x1,5		0COLTELLO39
VITE TORX T15	M 4x6		0VITIM4X600
CHIAVE TORX	T 15		0TORXT15000

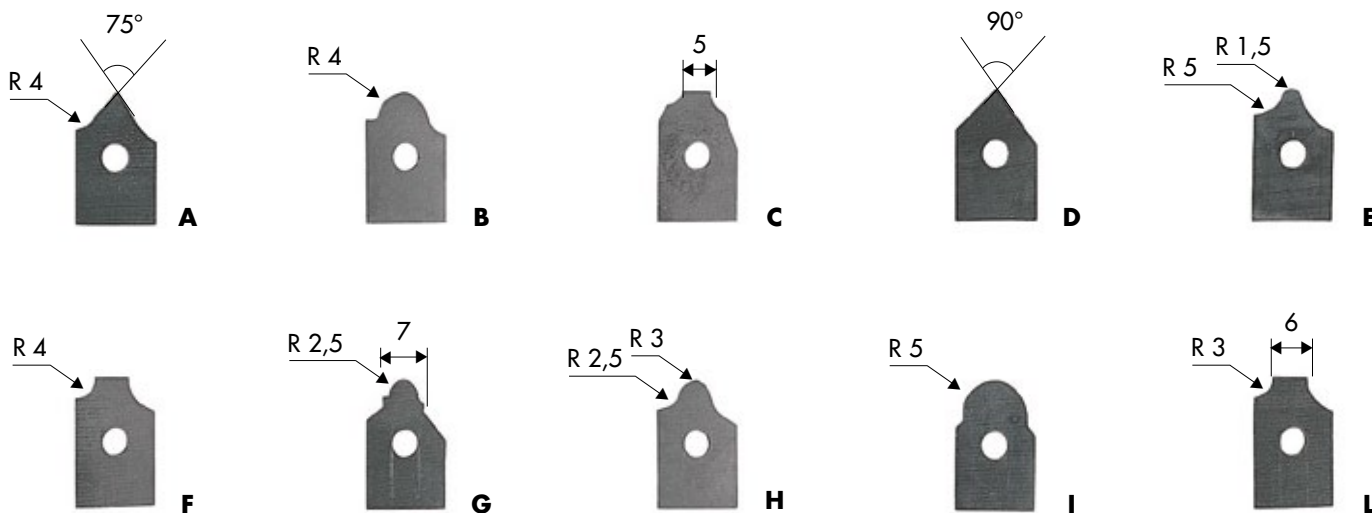
192

Frese a coltelli con profili vari Z=1
Profiling cutters with knives Z=1

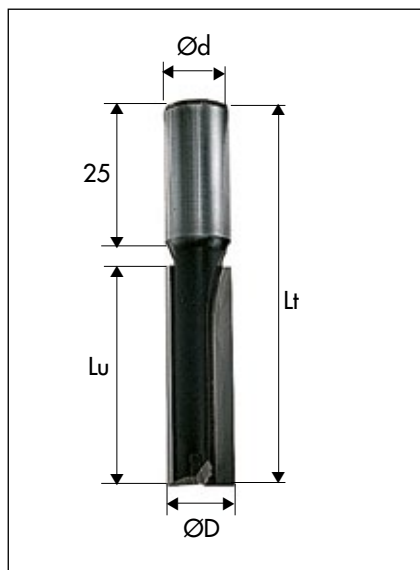


Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
16	70	12x50	01920012020
SET CASSETTA COMPLETA			BOX19200000

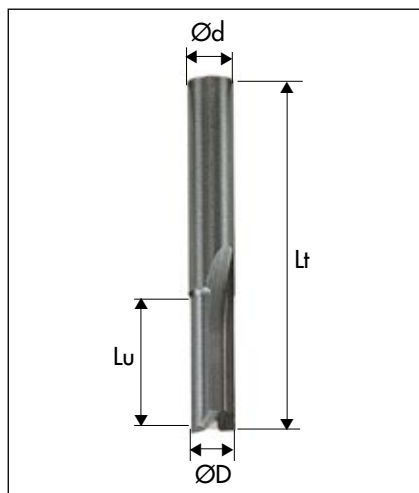
Ricambi - Spare parts		Codice ordine
COLTELLO	profilo A	0COLTELLO0A
COLTELLO	profilo B	0COLTELLO0B
COLTELLO	profilo C	0COLTELLO0C
COLTELLO	profilo D	0COLTELLO0D
COLTELLO	profilo E	0COLTELLO0E
COLTELLO	profilo F	0COLTELLO0F
COLTELLO	profilo G	0COLTELLO0G
COLTELLO	profilo H	0COLTELLO0H
COLTELLO	profilo I	0COLTELLO0I
COLTELLO	profilo L	0COLTELLO0L
STAFFETTA		00STAFFETTA
VITE TORX T15	M 3,5x8	0VITIM35X80
CHIAVE TORX	T 15	0TORXT15000



Frese per pantografo Z = 2 attacco cilindrico
Straight router bits Z = 2 cylindrical shank



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
10	25	53	9,5	02880010025
10	40	68	9,5	02880010040
11	25	55	9,5	02880011025
11	40	70	9,5	02880011040
12	25	55	9,5	02880012025
12	40	70	9,5	02880012040
12	25	55	12	02881012025
12	40	70	12	02881012040
13	25	55	12	02881013025
13	40	70	12	02881013040
14	25	55	12	02881014025
14	40	70	12	02881014040
15	25	58	12	02881015025
15	40	73	12	02881015040
16	25	58	12	02881016025
16	40	73	12	02881016040
17	25	58	12	02881017025
17	40	73	12	02881017040
18	25	58	12	02881018025
18	40	73	12	02881018040
19	25	58	12	02881019025
19	40	73	12	02881019040
20	25	58	12	02881020025
20	40	73	12	02881020040
21	25	58	12	02881021025
21	40	73	12	02881021040
22	25	58	12	02881022025
22	40	73	12	02881022040
23	25	58	12	02881023025
23	40	73	12	02881023040
24	25	58	12	02881024025
24	40	73	12	02881024040
25	25	58	12	02881025025
25	40	73	12	02881025040
26	25	58	12	02881026025
26	40	73	12	02881026040



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Frese per pantografo HM integrali Z = 2 - Attacco Ø 6

Per attacco Ø 9,5 richiedere adattatore art. 530

Solid-carbide straight bits Z = 2 - Shank Ø 6

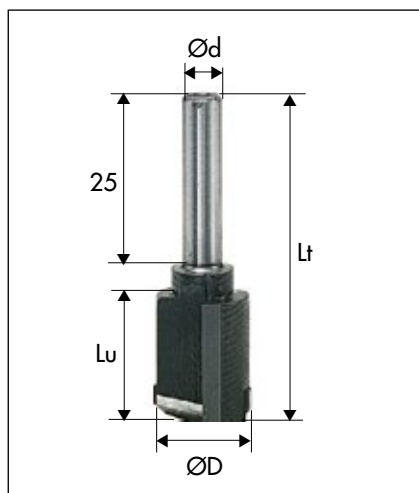
For shank Ø 9,5 ask for adapter art. 530

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
3	10	45	6	02890003010
4	10	45	6	02890004010
5	15	45	6	02890005015
6	15	45	6	02890006015
7	20	50	6	02890007020
8	25	60	9,5	02890008025
10	25	60	9,5	02890010025

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Frese per pantografo Z = 2 riportate

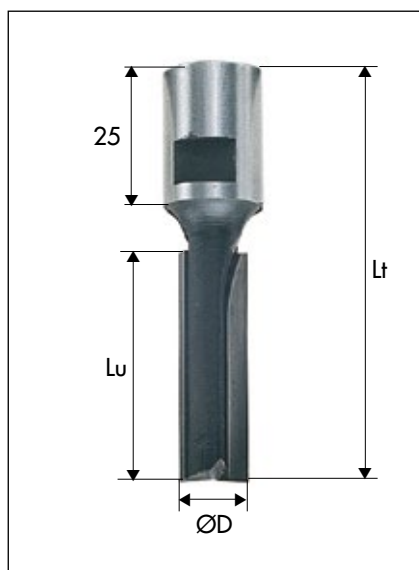
TCT-straight router bits Z = 2



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
8	20	50	6	02892008020
10	20	50	6	02892010020
12	20	50	6	02892012020
14	20	50	6	02892014020
16	20	50	6	02892016020
18	20	50	6	02892018020
20	20	50	6	02892020020

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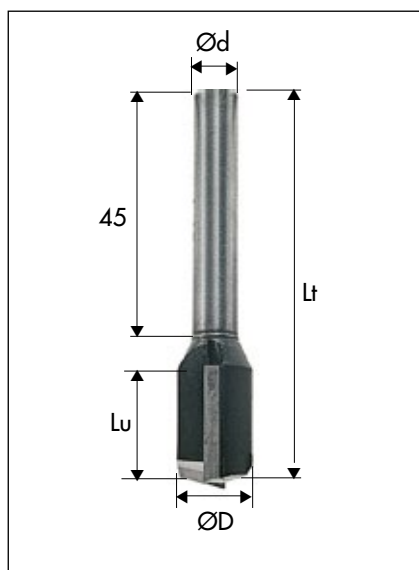
Frese per pantografo Z = 2 attacco filettato internamente
Straight router bits Z = 2 with inner threaded shank



Ø D mm	Lu mm	Lt mm	Attacco	Codice ordine
8	25	58	M12x1	02912008025
10	25	58	M12x1	02912010025
10	40	73	M12x1	02912010040
11	25	58	M12x1	02912011025
11	40	73	M12x1	02912011040
12	25	58	M12x1	02912012025
12	40	73	M12x1	02912012040
13	25	58	M12x1	02912013025
13	40	73	M12x1	02912013040
14	25	58	M12x1	02912014025
14	40	73	M12x1	02912014040
15	25	58	M12x1	02912015025
15	40	73	M12x1	02912015040
16	25	58	M12x1	02912016025
16	40	73	M12x1	02912016040
17	25	58	M12x1	02912017025
17	40	73	M12x1	02912017040
18	25	58	M12x1	02912018025
18	40	73	M12x1	02912018040
19	25	58	M12x1	02912019025
19	40	73	M12x1	02912019040
20	25	58	M12x1	02912020025
20	40	73	M12x1	02912020040
21	25	58	M12x1	02912021025
21	40	73	M12x1	02912021040
22	25	58	M12x1	02912022025
22	40	73	M12x1	02912022040
23	25	58	M12x1	02912023025
23	40	73	M12x1	02912023040
24	25	58	M12x1	02912024025
24	40	73	M12x1	02912024040
25	25	58	M12x1	02912025025
25	40	73	M12x1	02912025040
26	25	58	M12x1	02912026025
26	40	73	M12x1	02912026040

2





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Frese per pantografo Z = 2 attacco cilindrico
 Straight router bits Z = 2 cylindrical shank

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
8	20	70	8	02920008080
10	20	70	8	02920010080
12	20	70	8	02920012080
14	20	70	8	02920014080
15	20	70	8	02920015080
16	20	70	8	02920016080
18	20	70	8	02920018080
20	20	70	8	02920020080
22	20	70	8	02920022080
24	20	70	8	02920024080

FRESE HM INTEGRALI ELICOIDALI ART.294 Z1-Z2-Z3

Fresa in HW integrale con elica positiva o negativa per una buona finitura sia sulla parte superiore che sulla parte inferiore del pannello, da utilizzare su materiali come truciolare, laminati, MDF, melaminici, laccati, gesso, fonoassorbenti, acustici grazie alla sua tipologia di costruzione in HW integrale, alla sua particolare elica ed al tipo di spoglia appositamente studiato.

L'utensile con elica positiva permette di ottenere un'ottima finitura della parte inferiore del pannello e ottime prestazioni nella contornatura. L'utensile con elica negativa permette di ottenere un'ottima finitura del pannello nella parte superiore. L'utensile con rompitruciolo permette invece di avere più asportazione e maggiori velocità di avanzamento.

Con una velocità di rotazione di 18000 rpm e con una lavorazione di circa il doppio del diametro utensile, tenendo in considerazione ottime qualità di serraggio mandrini-pinza-utensile, le velocità di avanzamento possono essere:

- da diametro 3mm fino a 6mm
= 3/5 mt/min.
- da diametro 8mm fino a 14mm
= 4/7 mt/min.
- da diametro 16mm fino a 20mm
= 7/10 mt/min.

Solid carbide cutter with positive or negative helix for a good finishing both on the upper part and on the lower part of the panel, to be used on materials such as chipboard, laminates, MDF, melamine, plaster, sound-absorbing, acoustic panels thanks to its type of solid carbide construction, to its particular helix and to the type of specially studied sharpening.

The tool with positive helix allows to obtain an excellent finishing of the lower part of the panel and excellent performance in milling. The tool with negative helix allows to obtain an excellent finishing of the panel in the upper part. The tool with chipbreaker allows better chip removal and higher feed rates. With a rotation speed of 18000 rpm and with an operation of approximately double of the tool diameter, considering an excellent quality of spindle-collet-tool clamping, the feed rates can be:

- from diameter 3mm up to 6mm
= 3/5 mt / min.
- from diameter 8mm up to 14mm
= 4/7 mt / min.
- from diameter 16mm up to 20mm
= 7 / 10mt / min.

3



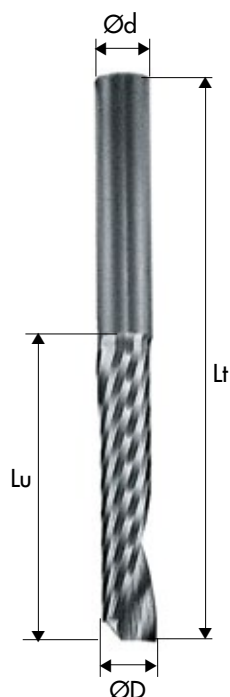
294/Z1

Frese elicoidali integrali.

Rotazione destra elica positiva o negativa

Solid-carbide spiral milling cutters.

Righthand rotation with positive or negative axial angle.

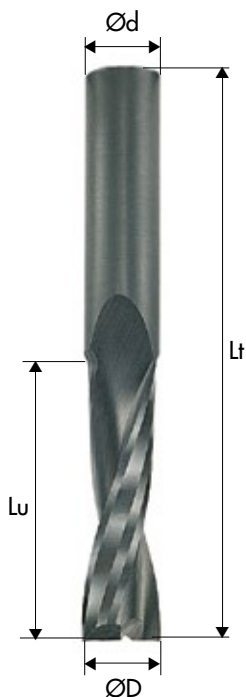


Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine positive	Codice ordine negative
3	12	50	3	02941003012	02941103012
4	12	50	4	02941004012	02941104012
5	17	50	5	02941005017	02941105017
6	22	60	6	02941006022	02941106022
6	27	60	6	02941006027	02941106027
8	22	70	8	02941008022	02941108022
8	32	80	8	02941008032	02941108032
8	42	90	8	02941008042	02941108042
10	32	80	10	02941010032	02941110032
10	42	90	10	02941010042	02941110042
10	52	100	10	02941010052	02941110052
12	32	80	12	02941012032	02941112032
12	42	90	12	02941012042	02941112042
12	52	100	12	02941012052	02941112052

294/Z2

Frese elicoidali integrali. Rotazione destra elica positiva o negativa

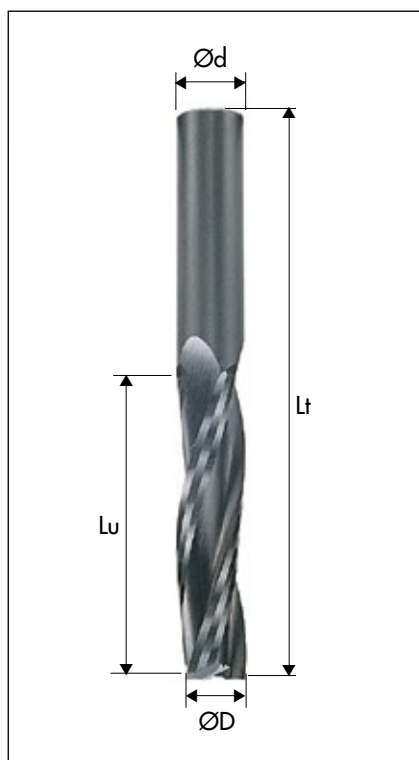
Solid-carbide spiral milling cutters. Righthand rotation with positive or negative axial angle.



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine positive	Codice ordine negative
3	12	50	3	02942003012	02942203012
4	12	50	4	02942004012	02942204012
5	17	50	5	02942005017	02942205017
6	22	60	6	02942006022	02942206022
6	27	60	6	02942006027	02942206027
8	22	70	8	02942008022	02942208022
8	32	80	8	02942008032	02942208032
8	42	90	8	02942008042	02942208042
10	32	80	10	02942010032	02942210032
10	42	90	10	02942010042	02942210042
10	52	100	10	02942010052	02942210052
12	32	80	12	02942012032	02942212032
12	42	90	12	02942012042	02942212042
12	52	100	12	02942012052	02942212052
14	32	80	14	02942014032	02942214032
14	42	90	14	02942014042	02942214042
14	52	100	14	02942014052	02942214052
16	42	90	16	02942016042	02942216042
16	52	100	16	02942016052	02942216052
16	72	120	16	02942016072	02942216072

294/Z3

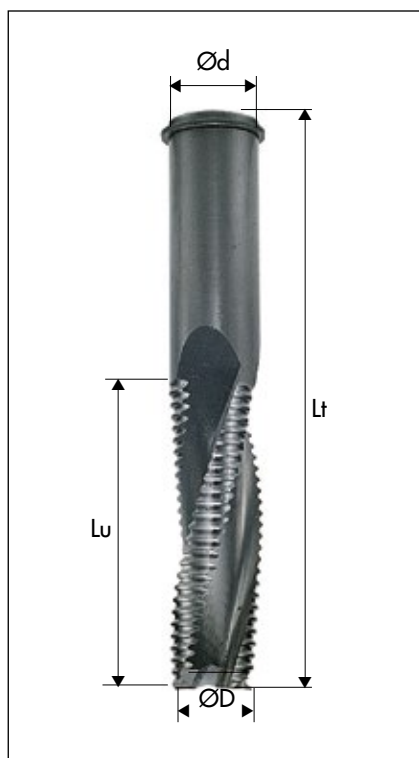
Frese elicoidali integrali. Rotazione destra elica positiva o negativa
Solid-carbide spiral milling cutters. Righthand rotation with positive or negative axial angle.



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine positive	Codice ordine negative
8	22	70	8	02943008022	02943308022
8	32	80	8	02943008032	02943308032
8	42	90	8	02943008042	02943308042
10	32	80	10	02943010032	02943310032
10	42	90	10	02943010042	02943310042
10	52	100	10	02943010052	02943310052
12	32	80	12	02943012032	02943312032
12	42	90	12	02943012042	02943312042
12	52	100	12	02943012052	02943312052
14	32	80	14	02943014032	02943314032
14	42	90	14	02943014042	02943314042
14	52	100	14	02943014052	02943314052
16	42	90	16	02943016042	02943316042
16	52	100	16	02943016052	02943316052
16	72	120	16	02943016072	02943316072
18	52	100	18	02943018052	02943318052
18	72	120	18	02943018072	02943318072
18	102	150	18	02943018102	02943318102
20	52	100	20	02943020052	02943320052
20	72	120	20	02943020072	02943320072
20	102	150	20	02943020102	02943320102

294/Z3 con rompitruciolo with chip-breaker

Frese elicoidali integrali. Rotazione destra elica positiva o negativa
Solid-carbide spiral milling cutters. Righthand rotation with positive or negative axial angle.

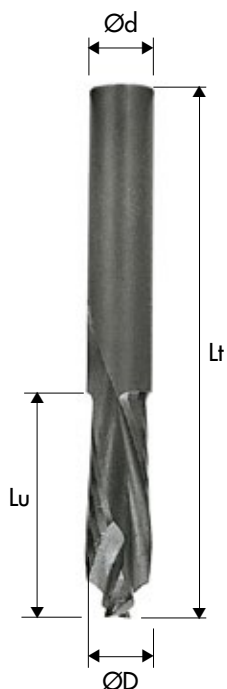


Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine positive	Codice ordine negative
8	22	70	8	02944008022	02944408022
8	32	80	8	02944008032	02944408032
8	42	90	8	02944008042	02944408042
10	32	80	10	02944010032	02944410032
10	42	90	10	02944010042	02944410042
10	52	100	10	02944010052	02944410052
12	32	80	12	02944012032	02944412032
12	42	90	12	02944012042	02944412042
12	52	100	12	02944012052	02944412052
14	32	80	14	02944014032	02944414032
14	42	90	14	02944014042	02944414042
14	52	100	14	02944014052	02944414052
16	42	90	16	02944016042	02944416042
16	52	100	16	02944016052	02944416052
16	72	120	16	02944016072	02944416072
18	52	100	18	02944018052	02944418052
18	72	120	18	02944018072	02944418072
18	102	150	18	02944018102	02944418102
20	52	100	20	02944020052	02944420052
20	72	120	20	02944020072	02944420072
20	102	150	20	02944020102	02944420102

294/Z2 P+N

Frese elicoidali integrali - Rotazione destra elica positiva + negativa
Solid-carbide spiral milling cutters.
Righthand rotation with positive + negative axial angle

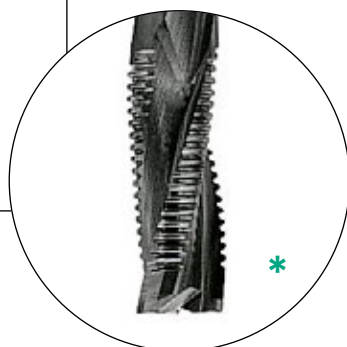
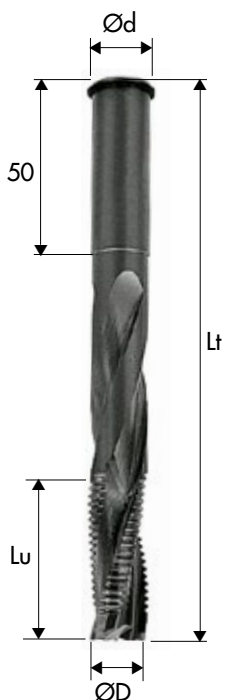
Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
8	32	80	8	02945008032
10	32	80	10	02945010032
12	42	90	12	02945012042



295/Z3 lisce o con rompitruciolo

Frese elicoidali integrali per cava serratura
 Rotazione destra elica positiva
Solid-carbide spiral milling cutters for lock slot.
Righthand rotation with positive axial angle.
Finishing version or with chip-breaker (RT)

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
14	40	150	14 RT	02950014040
14	40	150	14 LISCE	02951014040
15	40	150	16 RT	02950015040
16	40	150	16 RT	02950016040
16	40	150	16 LISCE	02951016040
16	40	150	16 LISCE/RT	02952016040 *



296/Z3 lisce o con rompitruciolo

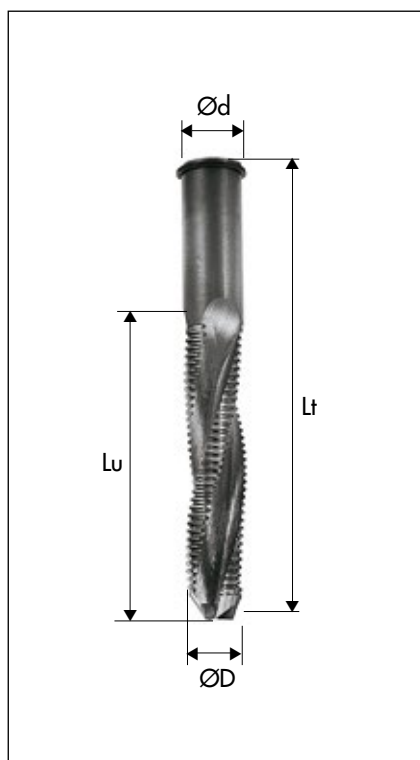
Frese elicoidali integrali per serrature e spioncini.

Rotazione destra elica positiva.

Solid-carbide spiral milling cutters for locks and spy-holes.

Righthand rotation with positive axial angle.

Finishing version or with chip-breaker (RT)



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
14	52	100	14 RT	02960014052
14	52	100	14 LISCE	02961014052
16	72	120	16 RT	02960016072
16	72	120	16 LISCE	02961016072

3



297/Z1 A

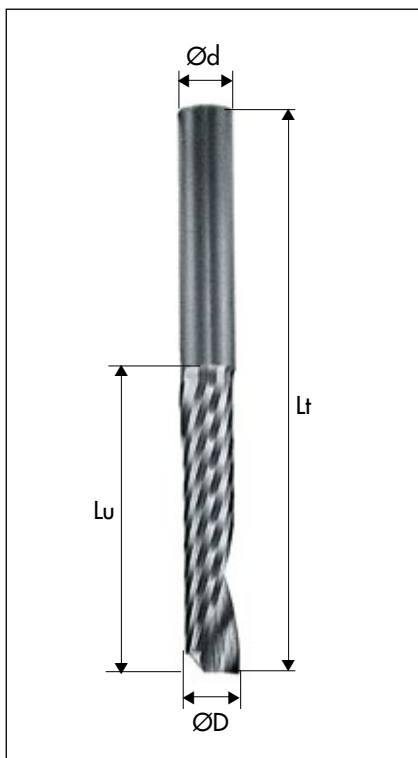
Frese elicoidali integrali per alluminio.

Rotazione destra elica positiva.

Solid-carbide spiral milling cutters for aluminium.

Righthand rotation with positive axial angle.

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine alluminio
3	12	50	3	A2971003012
4	12	50	4	A2971004012
5	17	50	5	A2971005017
6	22	60	6	A2971006022
6	27	60	6	A2971006027
8	22	70	8	A2971008022
8	32	80	8	A2971008032
10	32	80	10	A2971010032
12	32	80	12	A2971012032



297/Z1 P

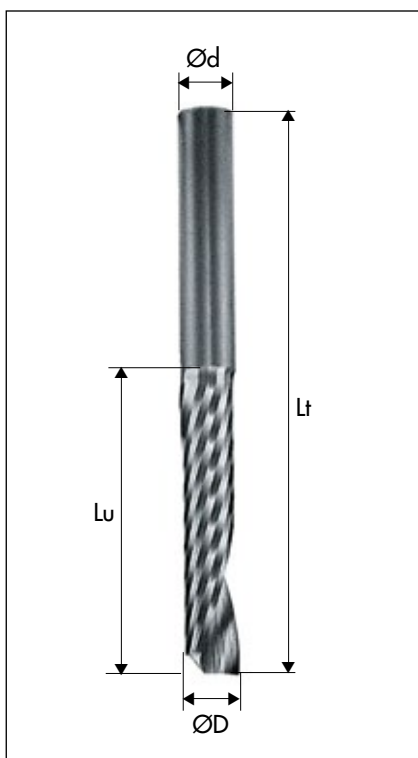
Frese elicoidali integrali per materie plastiche.

Rotazione destra elica positiva.

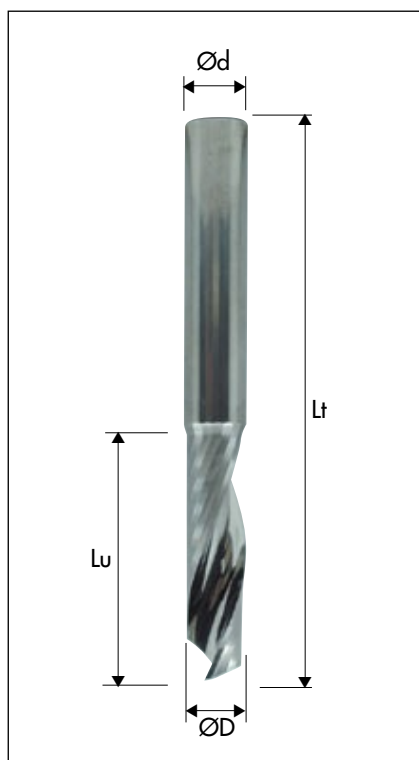
Solid-carbide spiral milling cutters for plastic materials.

Righthand rotation with positive axial angle.

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine plastica
3	12	50	3	P2971003012
4	12	50	4	P2971004012
5	17	50	5	P2971005017
6	22	60	6	P2971006022
6	27	60	6	P2971006027
8	22	70	8	P2971008022
8	32	80	8	P2971008032
10	32	80	10	P2971010032
12	32	80	12	P2971012032



297/Z1 L



Frese elicoidali Z=1 per lavorazioni plastiche con gola e spoglie lappate a specchio per favorire l'evacuazione del truciolo. Rotazione destra positiva e destra negativa.

Solid-carbide spiral milling cutters Z=1 for plastic materials - POLISHED VERSION. Righthand rotation with positive or negative axial angle.

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice elica positiva	Codice elica negativa
3	12	50	3	P2971003123L	P2971103123L
3	12	60	6	P2971003126L	P2971103126L
4	15	50	4	P2971004154L	P2971104154L
4	15	60	6	P2971004156L	P2971104156L
5	15	50	5	P2971005155L	P2971105155L
6	22	60	6	P2971006226L	P2971106226L
8	30	70	8	P2971008308L	P2971108308L
10	35	80	10	P2971010351L	P2971110351L
12	42	90	12	P2971012421L	P2971112421L

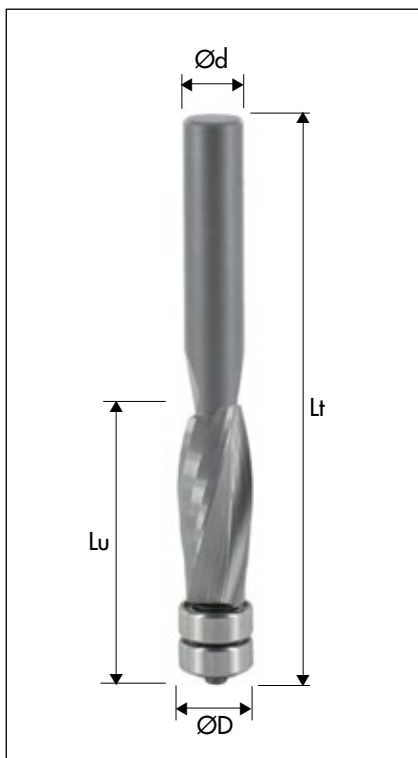
3



298/Z2

Frese elicoidali integrali con cuscinetti. Rotazione destra elica positiva.
Solid-carbide spiral milling cutters with ball bearings. Righthand rotation with positive axial angle.

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
8	25	70	8	02982008025
10	32	80	10	02982010032
12	52	100	12	02982012052



300

Frese Z=3 HM saldobrasata elicoidale. Liscia o con rompitruciolo.
HM-brazed spiral milling cutters Z=3 (Finishing version or with chipbreaker).

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
40	160	235	30	03000400160
40/RT	160	235	30	0300R400160
50	210	285	30	03000500210
50/RT	210	285	30	0300R500210



FORATRICE PER FORI CIECHI

ART.395 Prodotto con cuspidi in HM, adatto alla foratura di materiali come legno massiccio, tenero o duro, truciolare e MDF grazie alla sua tipologia di costruzione con punta centrale e due rasanti con angolo negativo, 4 eliche adatta al montaggio di svasatori removibili. I suoi parametri di lavorazione sono da 3000 a 4000 rpm con un avanzamento di 4-5 mt/min su foratrici manuali, automatiche o CNC.

ART.397/1 Prodotto in HM integrale con attacco in acciaio, adatto alla foratura di materiali come legno massiccio, tenero o duro, truciolare, MDF, Trespa e HPL grazie alla sua tipologia di costruzione con punta centrale e due rasanti con angolo negativo. I suoi parametri di lavorazione sono da 3000 a 4000 rpm con un avanzamento di 4-5 mt/min su foratrici manuali, automatiche o CNC.

ART.397/2 Prodotto con cuspidi in HM, adatto alla foratura di materiali come truciolare, laminati, MDF, melaminici, laccati e derivati del legno in genere grazie alla sua tipologia di costruzione con punta centrale e due rasanti raggiati. I suoi parametri di lavorazione sono da 3500 a 4500 rpm con un avanzamento di 5-7 mt/min su foratrici manuali, automatiche o CNC.

ART.397/3 Prodotto in HM integrale con attacco in acciaio, adatto alla foratura di materiali come truciolare, laminati, MDF, melaminici, laccati, gesso, fonoassorbenti, acustici grazie alla sua tipologia di costruzione in HM integrale, punta centrale e rasanti raggiati. I suoi parametri di lavorazione sono da 4000 a 6000rpm e con un avanzamento fino a 8-9 mt/min su foratrici automatiche o CNC.

RASANTE NEGATIVO (negative spurs)



DRILLS FOR BLIND HOLES

ART. 395 made with HM tip, suitable for drilling materials such as solid, soft or hard wood, chipboard and MDF thanks to its type of construction with central tip and two spurs with negative angle, 4 helices suitable for mounting removable countersinks. Its processing parameters are from 3000 to 4000 rpm with a feed rate of 4-5 mt / min on manual, automatic or CNC drilling machines.

ART. 397/1 made in solid HM with steel shank, suitable for drilling materials such as solid, soft or hard wood, chipboard, MDF, Trespa and HPL thanks to its type of construction with central tip and two spurs with negative angle. Its processing parameters are from 3000 to 4000 rpm with a feed rate of 4-5 mt / min on manual, automatic or CNC drilling machines.

ART. 397/2 made with HM tip, suitable for drilling materials such as chipboard, laminates, MDF, melamine, lacquered wood, thanks to its type of construction with central point and two round spurs. Its processing parameters are from 3500 to 4500 rpm with a feed rate of 5-7 mt / min on manual, automatic or CNC drilling machines.

ART. 397/3 made in solid HM with steel shank, suitable for drilling materials such as chipboard, laminates, MDF, melamine, lacquered, plaster, sound-absorbing, acoustic thanks to its type of construction in solid HM, central tip and round spurs. Its processing parameters are from 4000 to 6000rpm and with a feed rate of up to 8-9 mt / min on automatic or CNC drilling machines.

RASANTE RAGGIATO (round spurs)



FORATRICE PER FORO PASSANTI

ART.396 Prodotto adatto alla foratura di materiali come legno massiccio, tenero o duro, truciolare e MDF grazie alla sua tipologia di costruzione con cuspide HM 60°, 4 eliche adatta al montaggio di svasatori removibili. I suoi parametri di lavorazione sono da 2500 a 3000 rpm con un avanzamento di 4-5 mt/min su foratrici manuali, automatiche o CNC.

ART.398 Prodotto adatto alla foratura di materiali come legno massiccio, tenero o duro, truciolare e MDF grazie alla sua tipologia di costruzione con cuspide HM 60°, costruzione a 2 eliche. I suoi parametri di lavorazione sono da 2500 a 3000 rpm con un avanzamento di 4-5 mt/min su foratrici manuali, automatiche o CNC.

ART.398/1 Prodotto adatto alla foratura di materiali come legno massiccio, tenero o duro, truciolare, MDF, Trespa e HPL grazie alla sua tipologia di costruzione in HM integrale e lancia 60°. I suoi parametri di lavorazione sono da 2500 a 6000 rpm con un avanzamento di 4-5 mt/min su foratrici manuali, automatiche o CNC.

ART.398/A Prodotto adatto alla foratura di materiali come truciolare, laminati, MDF, melaminici, laccati e derivati del legno in genere grazie alla sua tipologia di costruzione con cuspide HM con doppio angolo di lancia. I suoi parametri di lavorazione sono da 2500 a 3000 rpm con un avanzamento di 5-7 mt/min su foratrici manuali, automatiche o CNC.

ART.398/B Prodotto adatto alla foratura di materiali come truciolare, laminati, MDF, melaminici, laccati, gesso, fonoassorbenti, acustici grazie alla sua tipologia di costruzione in HM integrale e doppio angolo di lancia. I suoi parametri di lavorazione sono da 2500 a 6000rpm e con un avanzamento fino a 8-9 mt/min su foratrici automatiche o CNC.

LANCIA 60° (60° tip)



DRILLS FOR THROUGH HOLES

ART.396 Product suitable for drilling materials such as solid, soft or hard wood, chipboard and MDF thanks to its type of construction with HM 60° tip, 4 helices suitable for removable countersinks. Its processing parameters are from 2500 to 3000 rpm with a feed rate of 4-5 mt / min on manual, automatic or CNC drilling machines.

ART.398 Product suitable for drilling materials such as solid, soft or hard wood, chipboard and MDF thanks to its type of construction with HM 60° tip, construction with 2 helices. Its processing parameters are from 2500 to 3000 rpm with a feed rate of 4-5 mt / min on manual, automatic or CNC drilling machines.

ART.398/1 Product suitable for drilling materials such as solid, soft or hard wood, chipboard, MDF, Trespa and HPL, thanks to its type of construction in solid HM and 60° tip. Its processing parameters are from 2500 to 6000 rpm with a feed rate of 4-5 mt / min on manual, automatic or CNC drilling machines.

ART.398/A Product suitable for drilling materials such as chipboard, laminates, MDF, melamine, lacquered wood, thanks to its type of construction with HM tip with double angle tip. Its processing parameters are from 2500 to 3000 rpm with a feed rate of 5-7 mt / min on manual, automatic or CNC drilling machines.

ART.398/B Product suitable for drilling materials such as chipboard, laminates, MDF, melamine, lacquered, plaster, sound-absorbing, acoustic panels thanks to its type of construction in solid HM and double angle tip. Its processing parameters are from 2500 to 6000rpm and with a feed rate of up to 8-9 mt / min on automatic or CNC drilling machines.

DOPPIA LANCIA (double angle tip)



FORATRICE PER FORI CERNIERA

ART.410 Prodotto adatto alla foratura di materiali come legno massiccio, tenero o duro, truciolare e MDF grazie alla sua tipologia di costruzione con punta centrale, due taglienti e due rasanti con angolo negativo. I suoi parametri di lavorazione sono da 3000 a 4000 rpm con un avanzamento di 4-5 mt/min su foratrici manuali e CNC.

ART.410R Prodotto adatto alla foratura di materiali come legno massiccio, tenero o duro, truciolare e MDF grazie alla sua tipologia di costruzione con punta centrale, due taglienti e due rasanti con rasante raggiato. I suoi parametri di lavorazione sono da 3000 a 4000 rpm con un avanzamento di 4-5 mt/min su foratrici manuali e CNC.

INCISORI NEGATIVI (*negative spurs*)

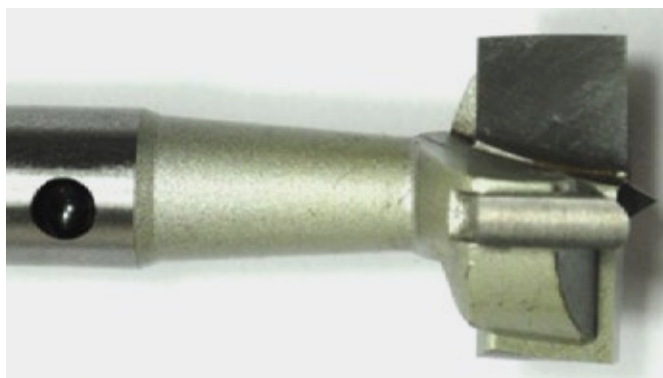


HINGE BORING BITS

ART. 410 Product suitable for drilling materials such as solid, soft or hard wood, chipboard and MDF thanks to its type of construction with central point, two cutting edges and two spurs with negative angle. Its processing parameters are from 3000 to 4000 rpm with a feed rate of 4-5 mt / min on manual, automatic drilling machines

ART.410R Product suitable for drilling materials such as chipboard, laminates, MDF, melamine, lacquered panels thanks to its type of construction with central point, two cutting edges and two round spurs. Its processing parameters are from 3000 to 4000 rpm with a feed rate of 4-5 mt / min on manual and CNC drilling machines

INCISORI RAGGIATI (*round spurs*)

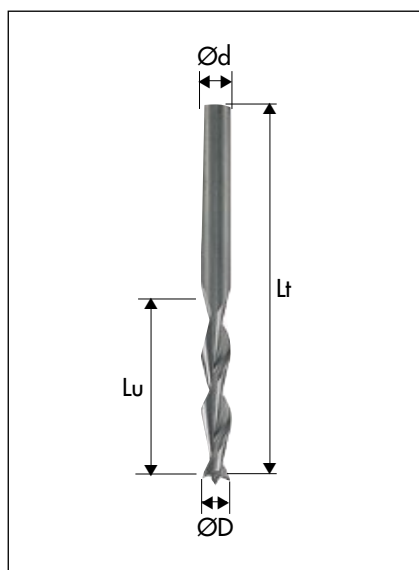


4



393

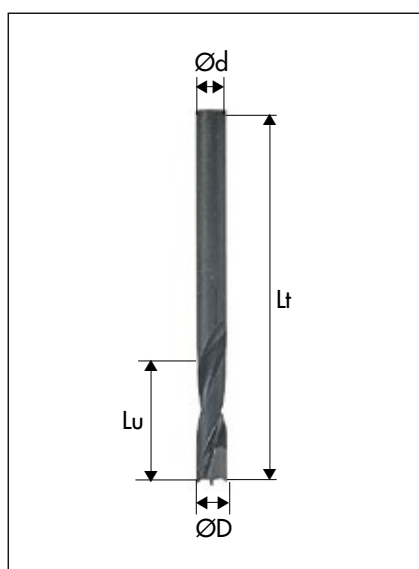
Punte foratrici integrali per fori ciechi
Solid-carbide drills for blind holes



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
3 dx	18	50	3	03930003000
3 sx	18	50	3	03930003001
4 dx	20	50	4	03930004000
4 sx	20	50	4	03930004001
5 dx	25	50	5	03930005000
5 sx	25	50	5	03930005001

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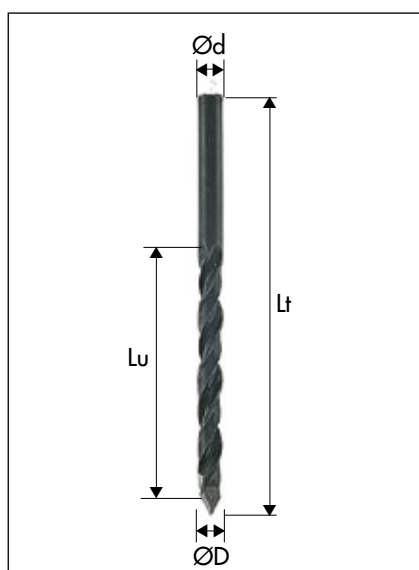
Punte foratrici riportate per fori ciechi
TCT-drills for blind holes



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
4 dx	18	52	4	03940004000
4 sx	18	52	4	03940004001
4 dx	40	75	4	03941004000
4 sx	40	75	4	03941004001
5 dx	20	60	5	03940005000
5 sx	20	60	5	03940005001
5 dx	50	85	5	03941005000
5 sx	50	85	5	03941005001

394/1

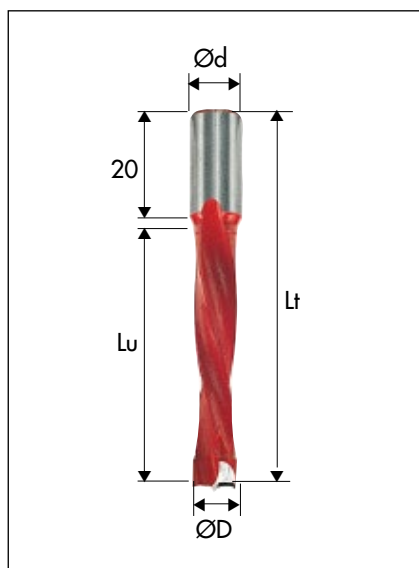
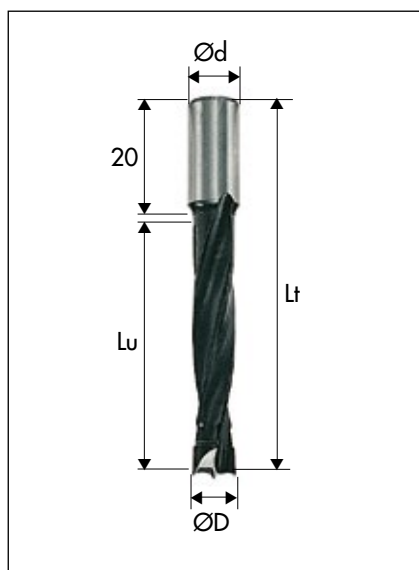
Punte foratrici riportate per fori passanti
TCT-drills for through holes



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
4 dx	18	52	4	03942004000
4 sx	18	52	4	03942004001
4 dx	40	75	4	03943004000
4 sx	40	75	4	03943004001
5 dx	20	60	5	03942005000
5 sx	20	60	5	03942005001
5 dx	50	85	5	03943005000
5 sx	50	85	5	03943005001

395

Punte foratrici per fori ciechi. Rotazione destra e sinistra
TCT-dowel drills for blind holes. Right- and lefthand rotation



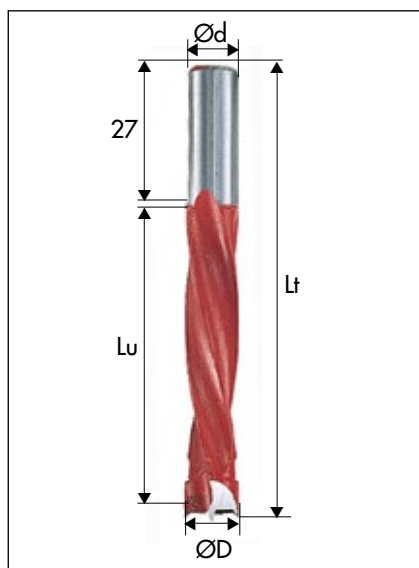
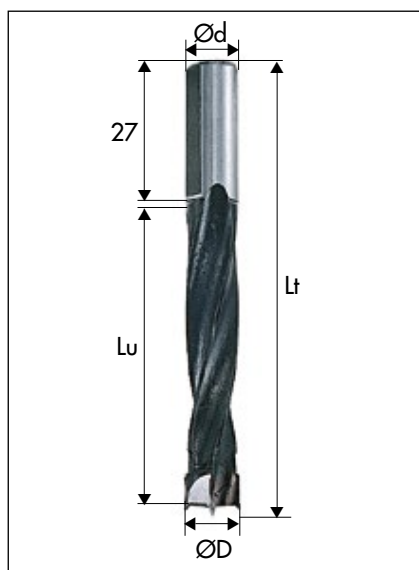
Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	30	57,5	10	03950005575
5 sx	30	57,5	10	03951005575
5 dx	43	70	10	03950005070
5 sx	43	70	10	03951005070
6 dx	30	57,5	10	03950006575
6 sx	30	57,5	10	03951006575
6 dx	43	70	10	03950006070
6 sx	43	70	10	03951006070
7 dx	30	57,5	10	03950007575
7 sx	30	57,5	10	03951007575
7 dx	43	70	10	03950007070
7 sx	43	70	10	03951007070
8 dx	30	57,5	10	03950008575
8 sx	30	57,5	10	03951008575
8 dx	43	70	10	03950008070
8 sx	43	70	10	03951008070
9 dx	30	57,5	10	03950009575
9 sx	30	57,5	10	03951009575
9 dx	43	70	10	03950009070
9 sx	43	70	10	03951009070
10 dx	30	57,5	10	03950010575
10 sx	30	57,5	10	03951010575
10 dx	43	70	10	03950010070
10 sx	43	70	10	03951010070
11 dx	30	57,5	10	03950011575
11 sx	30	57,5	10	03951011575
11 dx	43	70	10	03950011070
11 sx	43	70	10	03951011070
12 dx	30	57,5	10	03950012575
12 sx	30	57,5	10	03951012575
12 dx	43	70	10	03950012070
12 sx	43	70	10	03951012070
14 dx	30	57,5	10	03950014575
14 sx	30	57,5	10	03951014575
14 dx	43	70	10	03950014070
14 sx	43	70	10	03951014070

4



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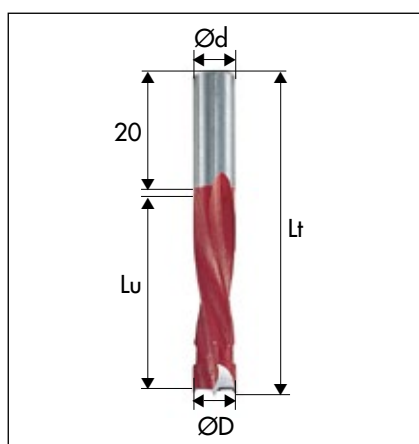
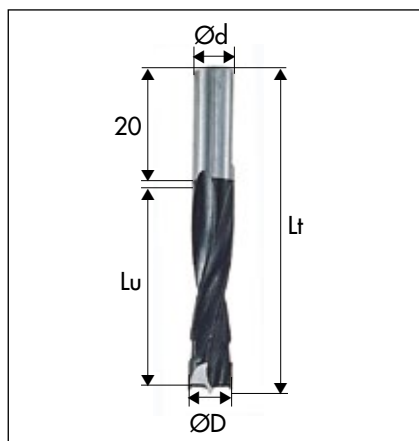
Punte foratrici per fori ciechi. Rotazione destra e sinistra
TCT-dowel drills for blind holes. Right- and lefthand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	50	85	10	03950005085
5 sx	50	85	10	03951005085
6 dx	50	85	10	03950006085
6 sx	50	85	10	03951006085
8 dx	50	85	10	03950008085
8 sx	50	85	10	03951008085
10 dx	50	85	10	03950010085
10 sx	50	85	10	03951010085
12 dx	50	85	10	03950012085
12 sx	50	85	10	03951012085
5 dx	65	105	10	03950005105
5 sx	65	105	10	03951005105
6 dx	65	105	10	03950006105
6 sx	65	105	10	03951006105
8 dx	65	105	10	03950008105
8 sx	65	105	10	03951008105
10 dx	65	105	10	03950010105
10 sx	65	105	10	03951010105
12 dx	65	105	10	03950012105
12 sx	65	105	10	03951012105

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Punte foratrici per fori ciechi. Rotazione destra e sinistra
TCT-dowel drills for blind holes. Right- and lefthand rotation



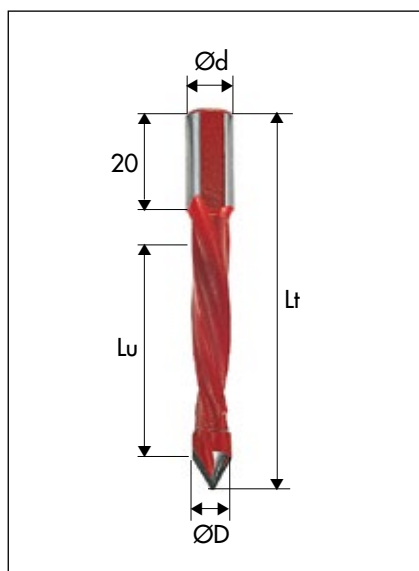
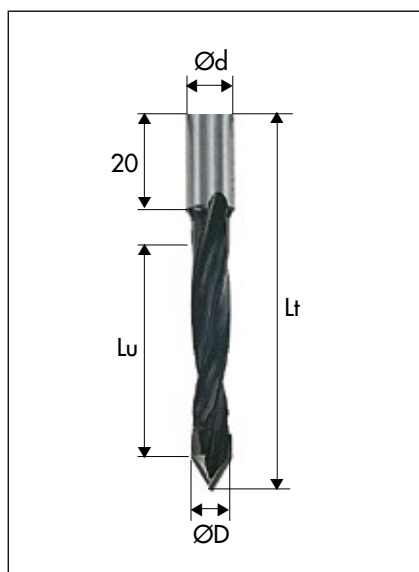
Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	30	55,5	8	03952005555
5 sx	30	55,5	8	03952105555
5 dx	40	67	8	03952005067
5 sx	40	67	8	03952105067
6 dx	30	55,5	8	03952006555
6 sx	30	55,5	8	03952106555
6 dx	40	67	8	03952006067
6 sx	40	67	8	03952106067
7 dx	30	55,5	8	03952007555
7 sx	30	55,5	8	03952107555
7 dx	40	67	8	03952007067
7 sx	40	67	8	03952107067
8 dx	30	55,5	8	03952008555
8 sx	30	55,5	8	03952108555
8 dx	40	67	8	03952008067
8 sx	40	67	8	03952108067
9 dx	30	55,5	8	03952009555
9 sx	30	55,5	8	03952109555
9 dx	40	67	8	03952009067
9 sx	40	67	8	03952109067
10 dx	30	55,5	8	03952010555
10 sx	30	55,5	8	03952110555
10 dx	40	67	8	03952010067
10 sx	40	67	8	03952110067
12 dx	30	55,5	8	03952012555
12 sx	30	55,5	8	03952112555
12 dx	40	67	8	03952012067
12 sx	40	67	8	03952112067

4



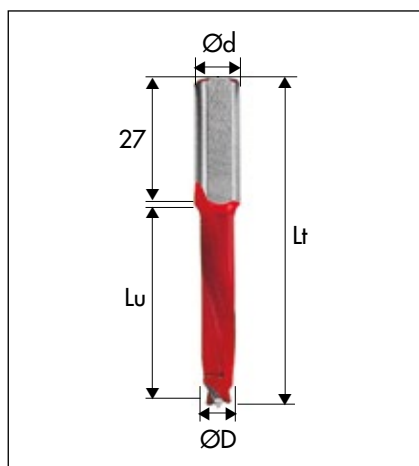
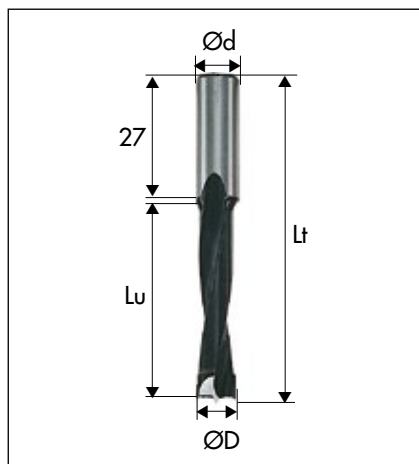
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Punte foratrici per fori passanti. Rotazione destra e sinistra
TCT-dowel drills for through holes. Right and left hand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	27	57,5	10	03960005575
5 sx	27	57,5	10	03961005575
5 dx	40	70	10	03960005070
5 sx	40	70	10	03961005070
6 dx	27	57,5	10	03960006575
6 sx	27	57,5	10	03961006575
6 dx	40	70	10	03960006070
6 sx	40	70	10	03961006070
7 dx	27	57,5	10	03960007575
7 sx	27	57,5	10	03961007575
7 dx	40	70	10	03960007070
7 sx	40	70	10	03961007070
8 dx	27	57,5	10	03960008575
8 sx	27	57,5	10	03961008575
8 dx	40	70	10	03960008070
8 sx	40	70	10	03961008070
10 dx	27	57,5	10	03960010575
10 sx	27	57,5	10	03961010575
10 dx	40	70	10	03960010070
10 sx	40	70	10	03961010070
12 dx	27	57,5	10	03960012575
12 sx	27	57,5	10	03961012575
12 dx	40	70	10	03960012070
12 sx	40	70	10	03961012070

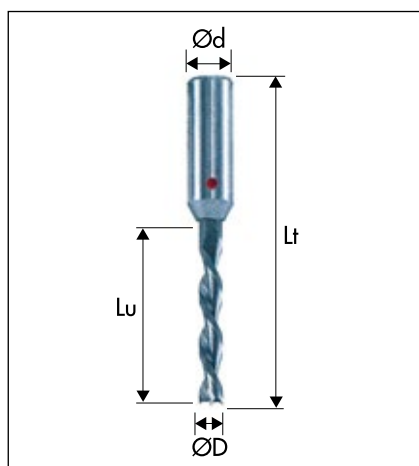
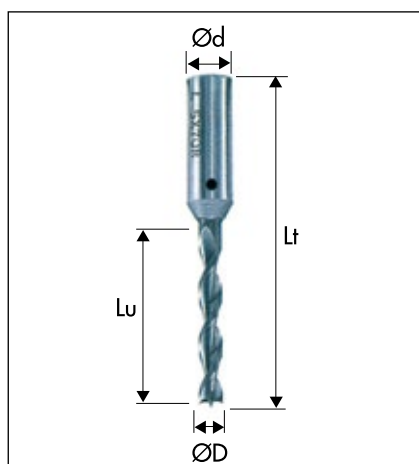
Punte foratrici per fori ciechi. Rotazione destra e sinistra
TCT-dowel drills for blind holes. Right and left hand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	27	57,5	10	03970005575
5 sx	27	57,5	10	03971005575
5 dx	35	70	10	03970005070
5 sx	35	70	10	03971005070
5 dx	44	77	10	03970005077
5 sx	44	77	10	03971005077
6 dx	27	57,5	10	03970006575
6 sx	27	57,5	10	03971006575
6 dx	35	70	10	03970006070
6 sx	35	70	10	03971006070
6 dx	44	77	10	03970006077
6 sx	44	77	10	03971006077
7 dx	27	57,5	10	03970007575
7 sx	27	57,5	10	03971007575
7 dx	35	70	10	03970007070
7 sx	35	70	10	03971007070
8 dx	27	57,5	10	03970008575
8 sx	27	57,5	10	03971008575
8 dx	35	70	10	03970008070
8 sx	35	70	10	03971008070
8 dx	44	77	10	03970008077
8 sx	44	77	10	03971008077
9 dx	27	57,5	10	03970009575
9 sx	27	57,5	10	03971009575
9 dx	35	70	10	03970009070
9 sx	35	70	10	03971009070
10 dx	27	57,5	10	03970010575
10 sx	27	57,5	10	03971010575
10 dx	35	70	10	03970010070
10 sx	35	70	10	03971010070
10 dx	44	77	10	03970010077
10 sx	44	77	10	03971010077
11 dx	27	57,5	10	03970011575
11 sx	27	57,5	10	03971011575
11 dx	35	70	10	03970011070
11 sx	35	70	10	03971011070
12 dx	27	57,5	10	03970012575
12 sx	27	57,5	10	03971012575
12 dx	35	70	10	03970012070
12 sx	35	70	10	03971012070
12 dx	44	77	10	03970012077
12 sx	44	77	10	03971012077

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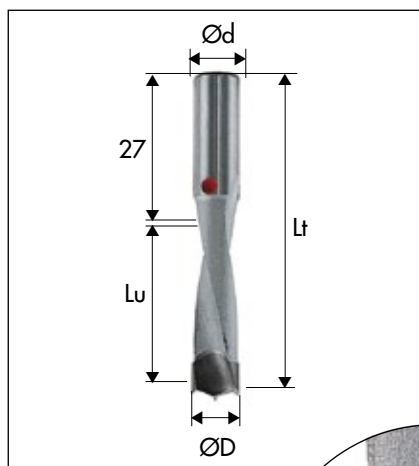
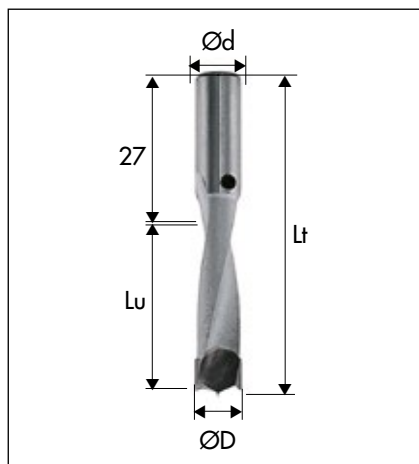
Punte foratrici integrali per fori ciechi. Rotazione destra e sinistra
Solid-carbide dowel drills for blind holes. Right- and lefthand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
3 dx	23	57,5	10	03970003023
3 sx	23	57,5	10	03971003023
3 dx	23	70	10	03972003023
3 sx	23	70	10	03972203023
4 dx	23	57,5	10	03970004023
4 sx	23	57,5	10	03971004023
4 dx	35	70	10	03970004035
4 sx	35	70	10	03971004035
5 dx	23	57,5	10	03970005023
5 sx	23	57,5	10	03971005023
5 dx	35	70	10	03970005035
5 sx	35	70	10	03971005035
6 dx	23	57,5	10	03970006023
6 sx	23	57,5	10	03971006023
6 dx	35	70	10	03970006035
6 sx	35	70	10	03971006035
8 dx	23	57,5	10	03970008023
8 sx	23	57,5	10	03971008023
8 dx	35	70	10	03970008035
8 sx	35	70	10	03971008035
10 dx	23	57,5	10	03970010023
10 sx	23	57,5	10	03971010023
10 dx	35	70	10	03970010035
10 sx	35	70	10	03971010035

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Punte foratrici speciali per fori ciechi con rasanti raggianti.
Rotazione destra e sinistra.
Special TCT-dowel drills for blind holes with round spurs.
Right- and lefthand rotation.



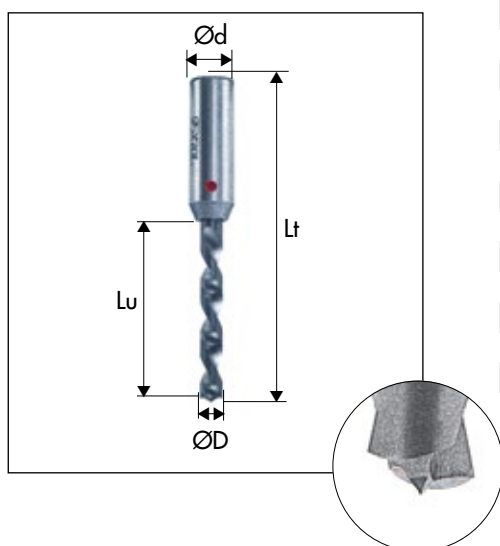
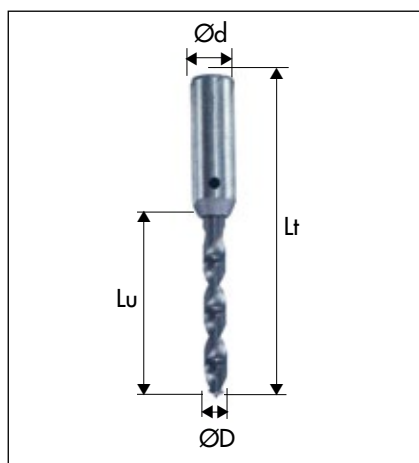
Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	27	57,5	10	03972005575
5 sx	27	57,5	10	03972105575
5 dx	35	70	10	03972005070
5 sx	35	70	10	03972105070
6 dx	27	57,5	10	03972006575
6 sx	27	57,5	10	03972106575
6 dx	35	70	10	03972006070
6 sx	35	70	10	03972106070
8 dx	27	57,5	10	03972008575
8 sx	27	57,5	10	03972108575
8 dx	35	70	10	03972008070
8 sx	35	70	10	03972108070
10 dx	27	57,5	10	03972010575
10 sx	27	57,5	10	03972110575
10 dx	35	70	10	03972010070
10 sx	35	70	10	03972110070
12 dx	27	57,5	10	03972012575
12 sx	27	57,5	10	03972112575
12 dx	35	70	10	03972012070
12 sx	35	70	10	03972112070

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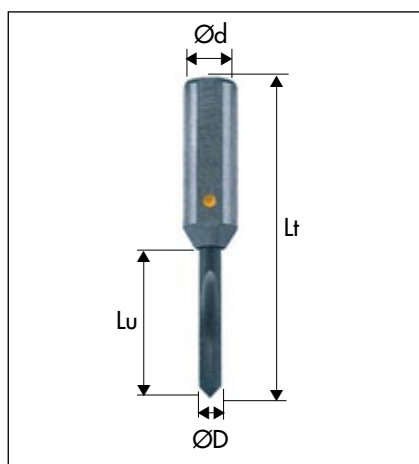
Punte foratrici integrali speciali per fori ciechi. Rotazione destra e sinistra
Special solid-carbide dowel drills for blind holes. Right-and left-hand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
3 dx	23	57,5	10	03973003023
3 sx	23	57,5	10	03973103023
3 dx	23	70	10	03973203023
3 sx	23	70	10	03973223023
4 dx	23	57,5	10	03973004023
4 sx	23	57,5	10	03973104023
4 dx	35	70	10	03973004035
4 sx	35	70	10	03973104035
5 dx	23	57,5	10	03973005023
5 sx	23	57,5	10	03973105023
5 dx	35	70	10	03973005035
5 sx	35	70	10	03973105035
6 dx	23	57,5	10	03973006023
6 sx	23	57,5	10	03973106023
6 dx	35	70	10	03973006035
6 sx	35	70	10	03973106035
8 dx	23	57,5	10	03973008023
8 sx	23	57,5	10	03973108023
8 dx	35	70	10	03973008035
8 sx	35	70	10	03973108035
10 dx	23	57,5	10	03973010023
10 sx	23	57,5	10	03973110023
10 dx	35	70	10	03973010035
10 sx	35	70	10	03973110035

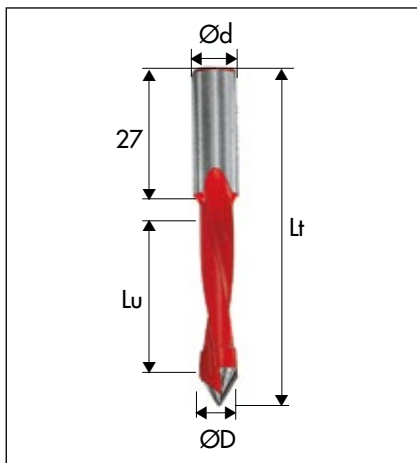
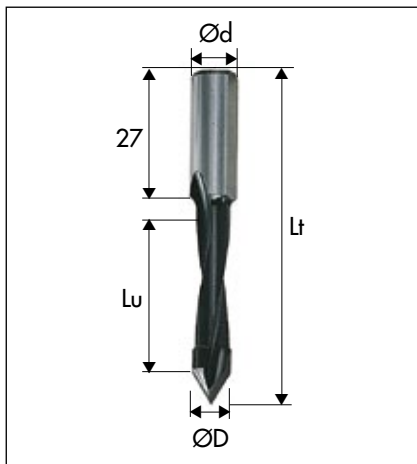
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Punte foratrici integrali.
Solid-carbide dowel drills.



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
3	18	50	3	03974003000
3	23	57,5	10	03974003023
3	23	70	10	03974103023
4	20	50	4	03974004000
4	23	57,5	10	03974004023
4	35	70	10	03974004035
5	25	50	5	03974005000
5	23	57,5	10	03974005023
5	35	70	10	03974005035

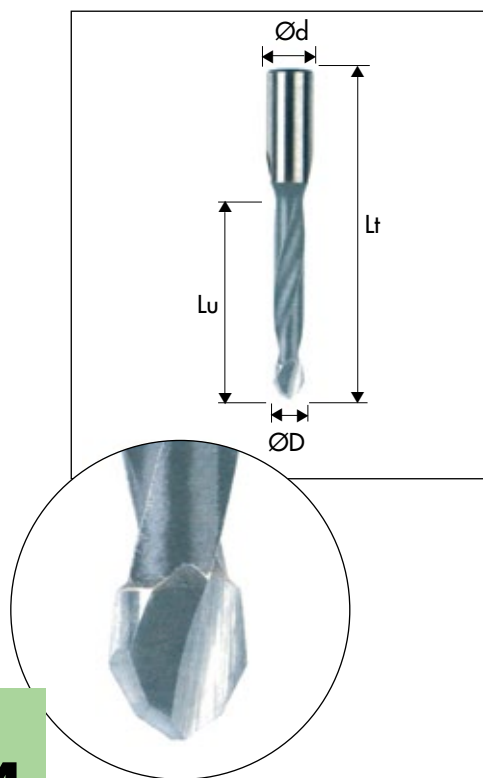
Punte foratrici per fori passanti. Rotazione destra e sinistra
TCT-dowel drills for through holes. Right and left hand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	25	57,5	10	03980005575
5 sx	25	57,5	10	03981005575
5 dx	35	70	10	03980005070
5 sx	35	70	10	03981005070
5 dx	40	77	10	03980005077
5 sx	40	77	10	03981005077
6 dx	25	57,5	10	03980006575
6 sx	25	57,5	10	03981006575
6 dx	35	70	10	03980006070
6 sx	35	70	10	03981006070
6 dx	40	77	10	03980006077
6 sx	40	77	10	03981006077
7 dx	25	57,5	10	03980007575
7 sx	25	57,5	10	03981007575
7 dx	35	70	10	03980007070
7 sx	35	70	10	03981007070
8 dx	25	57,5	10	03980008575
8 sx	25	57,5	10	03981008575
8 dx	35	70	10	03980008070
8 sx	35	70	10	03981008070
8 dx	40	77	10	03980008077
8 sx	40	77	10	03981008077
9 dx	25	57,5	10	03980009575
9 sx	25	57,5	10	03981009575
9 dx	35	70	10	03980009070
9 sx	35	70	10	03981009070
10 dx	25	57,5	10	03980010575
10 sx	25	57,5	10	03981010575
10 dx	35	70	10	03980010070
10 sx	35	70	10	03981010070
10 dx	40	77	10	03980010077
10 sx	40	77	10	03981010077
12 dx	25	57,5	10	03980012575
12 sx	25	57,5	10	03981012575
12 dx	35	70	10	03980012070
12 sx	35	70	10	03981012070
12 dx	40	77	10	03980012077
12 sx	40	77	10	03981012077

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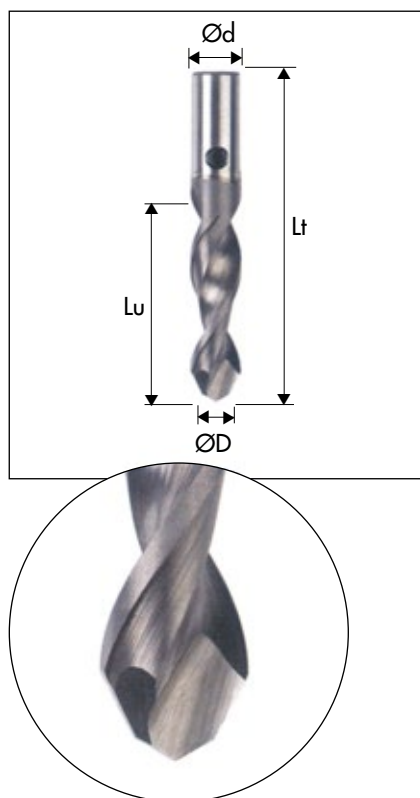
Punte foratrici speciali per fori passanti. Rotazione destra e sinistra
Special TCT-dowel drills for through holes. Right and lefthand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	27	57,5	10	03982005575
5 sx	27	57,5	10	03982105575
5 dx	35	70	10	03982005070
5 sx	35	70	10	03982105070
6 dx	27	57,5	10	03982006575
6 sx	27	57,5	10	03982106575
6 dx	35	70	10	03982006070
6 sx	35	70	10	03982106070
8 dx	27	57,5	10	03982008575
8 sx	27	57,5	10	03982108575
8 dx	35	70	10	03982008070
8 sx	35	70	10	03982108070
10 dx	27	57,5	10	03982010575
10 sx	27	57,5	10	03982110575
10 dx	35	70	10	03982010070
10 sx	35	70	10	03982110070
12 dx	27	57,5	10	03982012575
12 sx	27	57,5	10	03982112575
12 dx	35	70	10	03982012070
12 sx	35	70	10	03982112070

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Punte foratrici integrali speciali per fori passanti.
Rotazione destra e sinistra
Special solid-carbide dowel drills for through holes.
Right and left hand rotation



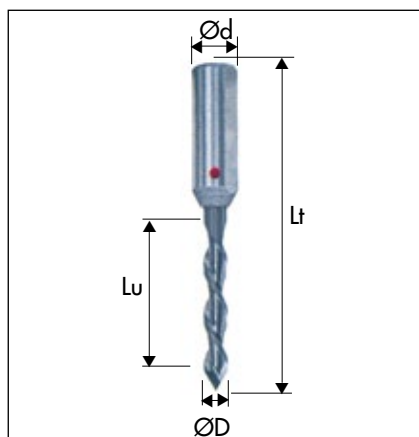
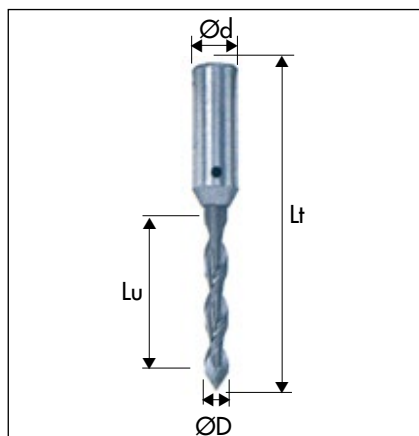
Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
4 dx	23	57,5	10	03983004023
4 sx	23	57,5	10	03983104023
4 dx	35	70	10	03983004035
4 sx	35	70	10	03983104035
5 dx	23	57,5	10	03983005023
5 sx	23	57,5	10	03983105023
5 dx	35	70	10	03983005035
5 sx	35	70	10	03983105035
6 dx	23	57,5	10	03983006023
6 sx	23	57,5	10	03983106023
6 dx	35	70	10	03983006035
6 sx	35	70	10	03983106035
8 dx	23	57,5	10	03983008023
8 sx	23	57,5	10	03983108023
8 dx	35	70	10	03983008035
8 sx	35	70	10	03983108035
10 dx	23	57,5	10	03983010023
10 sx	23	57,5	10	03983110023
10 dx	35	70	10	03983010035
10 sx	35	70	10	03983110035

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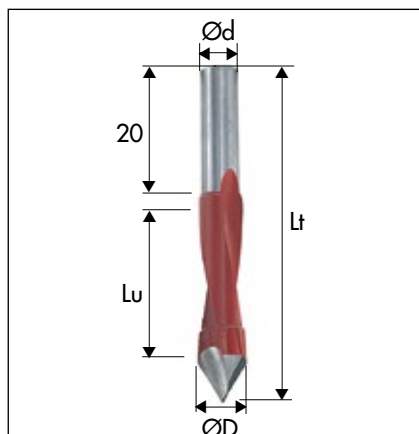
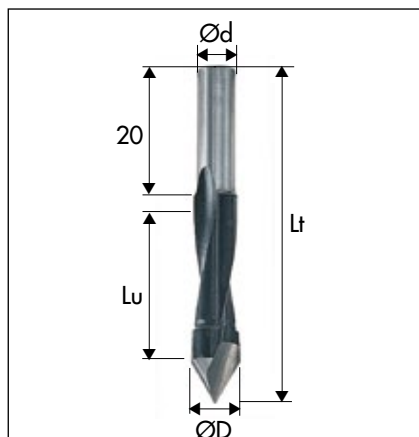
Punte foratrici integrali per fori passanti. Rotazione destra e sinistra
Solid-carbide dowel drills for through holes. Right and left hand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm x La	Codice ordine
3 dx	23	57,5	10	03980003023
3 sx	23	57,5	10	03981003023
3 dx	23	70	10	03982003023
3 sx	23	70	10	03982203023
4 dx	23	57,5	10	03980004023
4 sx	23	57,5	10	03981004023
4 dx	35	70	10	03980004035
4 sx	35	70	10	03981004035
5 dx	23	57,5	10	03980005023
5 sx	23	57,5	10	03981005023
5 dx	35	70	10	03980005035
5 sx	35	70	10	03981005035
6 dx	23	57,5	10	03980006023
6 sx	23	57,5	10	03981006023
6 dx	35	70	10	03980006035
6 sx	35	70	10	03981006035
8 dx	23	57,5	10	03980008023
8 sx	23	57,5	10	03981008023
8 dx	35	70	10	03980008035
8 sx	35	70	10	03981008035
10 dx	23	57,5	10	03980010023
10 sx	23	57,5	10	03981010023
10 dx	35	70	10	03980010035
10 sx	35	70	10	03981010035

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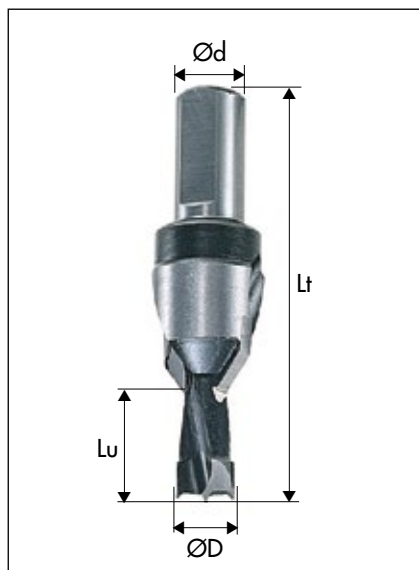
Punte foratrici per fori passanti. Rotazione destra e sinistra
TCT-dowel drills for through holes. Right and left hand rotation



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
5 dx	30	55,5	8	03980005555
5 sx	30	55,5	8	03981005555
5 dx	40	67	8	03980005067
5 sx	40	67	8	03981005067
6 dx	30	55,5	8	03980006555
6 sx	30	55,5	8	03981006555
6 dx	40	67	8	03980006067
6 sx	40	67	8	03981006067
8 dx	30	55,5	8	03980008555
8 sx	30	55,5	8	03981008555
8 dx	40	67	8	03980008067
8 sx	40	67	8	03981008067
10 dx	30	55,5	8	03980010555
10 sx	30	55,5	8	03981010555
10 dx	40	67	8	03980010067
10 sx	40	67	8	03981010067

399

Punte foratrici con svasatore fisso a 45°
TCT-dowel drills with fixed countersink 45°



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
8 dx	12	57,5	10	03990008012
8 sx	12	57,5	10	03991008012
8 dx	12	70	10	03992008012
8 sx	12	70	10	03992108012
8 dx	15	57,5	10	03990008015
8 sx	15	57,5	10	03991008015
8 dx	15	70	10	03992008015
8 sx	15	70	10	03992108015
8 dx	18	57,5	10	03990008018
8 sx	18	57,5	10	03991008018
8 dx	18	70	10	03992008018
8 sx	18	70	10	03992108018
10 dx	12	57,5	10	03990010012
10 sx	12	57,5	10	03991010012
10 dx	12	70	10	03992010012
10 sx	12	70	10	03992110012
10 dx	17	57,5	10	03990010017
10 sx	17	57,5	10	03991010017
10 dx	17	70	10	03992010017
10 sx	17	70	10	03992110017
10 dx	23	57,5	10	03990010023
10 sx	23	57,5	10	03991010023
10 dx	23	70	10	03992010023
10 sx	23	70	10	03992110023

4



400

Punte foratrici con svasatore fisso a 60°
TCT-dowel drills with fixed countersink 60°

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
8 dx	12	70	10	04000008012
8 sx	12	70	10	04001008012
8 dx	15	70	10	04000008015
8 sx	15	70	10	04001008015
8 dx	18	70	10	04000008018
8 sx	18	70	10	04001008018



401

Punte foratrici a doppi diametri (a richiesta)
TCT-dowel drills with double diameters (on request)



402

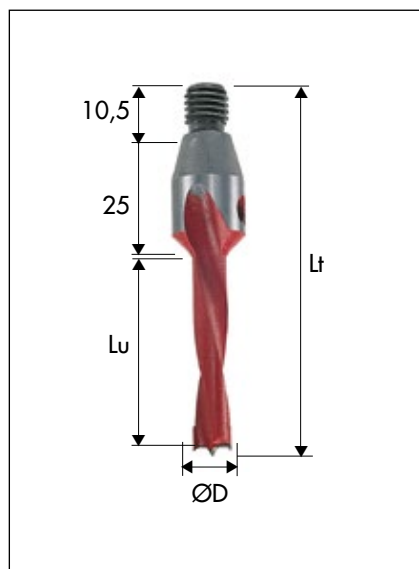
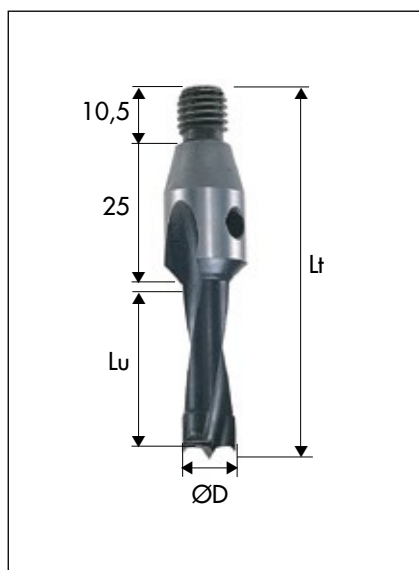
Punte foratrici per foro mensola Z=1
TCT-twist drills for bracket hole Z=1

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
14	180	220	10	04020014010
14	180	220	16	04020014016
16	180	220	10	04020016010
16	180	220	16	04020016016



403

Punte foratrici attacco conico - a richiesta si producono con svasatore
fisso: maggiorazione di prezzo del 35%
TCT-dowel drills with tapered shank- with fixed countersink on request:
increase of 35% on the price-list



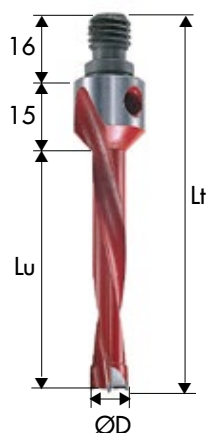
Ø D mm	Lu mm	Lt mm	Attacco	Codice ordine
5 dx	30	67	M10	04030005030
5 sx	30	67	M10	04031005030
5 dx	40	77	M10	04030005040
5 sx	40	77	M10	04031005040
6 dx	30	67	M10	04030006030
6 sx	30	67	M10	04031006030
6 dx	40	77	M10	04030006040
6 sx	40	77	M10	04031006040
6 dx	50	87	M10	04030006050
6 sx	50	87	M10	04031006050
8 dx	30	67	M10	04030008030
8 sx	30	67	M10	04031008030
8 dx	40	77	M10	04030008040
8 sx	40	77	M10	04031008040
8 dx	50	87	M10	04030008050
8 sx	50	87	M10	04031008050
10 dx	30	67	M10	04030010030
10 sx	30	67	M10	04031010030
10 dx	40	77	M10	04030010040
10 sx	40	77	M10	04031010040
10 dx	50	87	M10	04030010050
10 sx	50	87	M10	04031010050
12 dx	30	67	M10	04030012030
12 sx	30	67	M10	04031012030
12 dx	40	77	M10	04030012040
12 sx	40	77	M10	04031012040
12 dx	50	87	M10	04030012050
12 sx	50	87	M10	04031012050

4



404

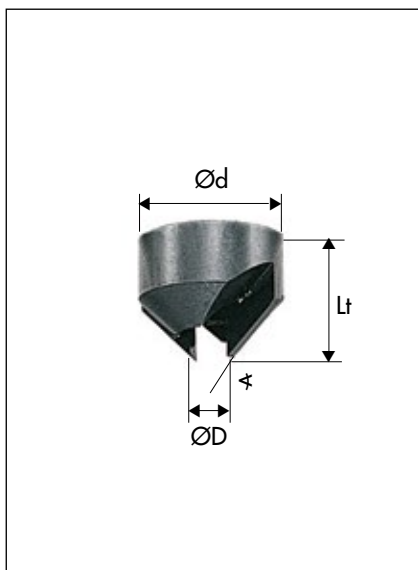
Punte foratrici attacco piatto - a richiesta si producono con svasatore
fisso: maggiorazione di prezzo del 35%
*TCT-dowel drills with tapered shank- with fixed countersink on request:
increase of 35% on the price-list*



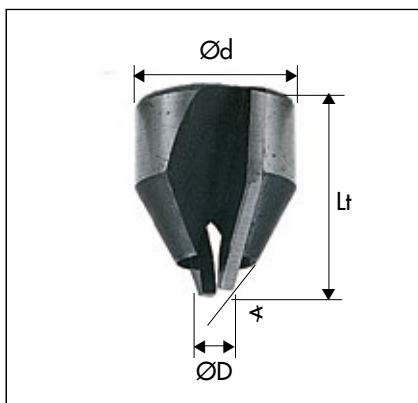
Ø D mm	Lu mm	Lt mm	Attacco	Codice ordine
5 dx	30	61	M10	04040005030
5 sx	30	61	M10	04041005030
5 dx	40	71	M10	04040005040
5 sx	40	71	M10	04041005040
6 dx	30	61	M10	04040006030
6 sx	30	61	M10	04041006030
6 dx	40	71	M10	04040006040
6 sx	40	71	M10	04041006040
6 dx	50	81	M10	04040006050
6 sx	50	81	M10	04041006050
8 dx	30	61	M10	04040008030
8 sx	30	61	M10	04041008030
8 dx	40	71	M10	04040008040
8 sx	40	71	M10	04041008040
8 dx	50	81	M10	04040008050
8 sx	50	81	M10	04041008050
10 dx	30	61	M10	04040010030
10 sx	30	61	M10	04041010030
10 dx	40	71	M10	04040010040
10 sx	40	71	M10	04041010040
10 dx	50	81	M10	04040010050
10 sx	50	81	M10	04041010050
12 dx	30	61	M10	04040012030
12 sx	30	61	M10	04041012030
12 dx	40	71	M10	04040012040
12 sx	40	71	M10	04041012040
12 dx	50	81	M10	04040012050
12 sx	50	81	M10	04041012050

405

Svasatori regolabili 45°
Adjustable countersinks 45°



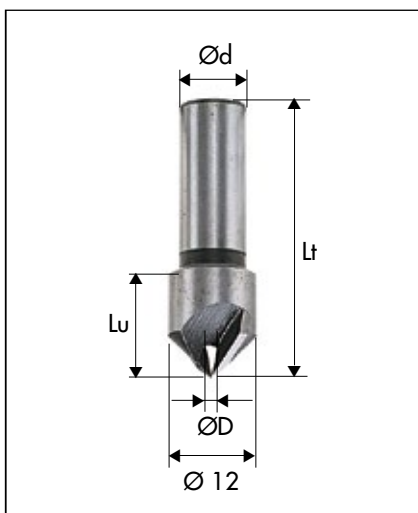
Ø D foro mm	Ø d mm	Lt mm	45°	Codice ordine
5 dx	14	14	45°	04050005000
5 sx	14	14	45°	04050005001
6 dx	14	14	45°	04050006000
6 sx	14	14	45°	04050006001
7 dx	17	16	45°	04050007000
7 sx	17	16	45°	04050007001
8 dx	18	16	45°	04050008000
8 sx	18	16	45°	04050008001
9 dx	18	16	45°	04050009000
9 sx	18	16	45°	04050009001
10 dx	20	18	45°	04050010000
10 sx	20	18	45°	04050010001
11 dx	20	18	45°	04050011000
11 sx	20	18	45°	04050011001
12 dx	20	18	45°	04050012000
12 sx	20	18	45°	04050012001
14 dx	24	18	45°	04050014000
14 sx	24	18	45°	04050014001



406

Svasatori regolabili 30°
Adjustable countersinks 30°

Ø D foro mm	Ø d mm	Lt mm	30°	Codice ordine
8 dx	19	22	30°	04060030000
8 sx	19	22	30°	04060030001



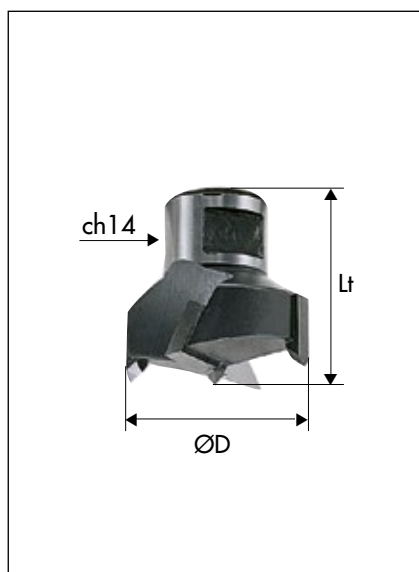
408

Mandrini portapunta con svasatore fisso a 45°
Drill holders with fixed countersink 45°

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
3 dx	15	40	10	04080003000
3 sx	15	40	10	04080003001
4 dx	15	40	10	04080004000
4 sx	15	40	10	04080004001
5 dx	15	40	10	04080005000
5 sx	15	40	10	04080005001

409

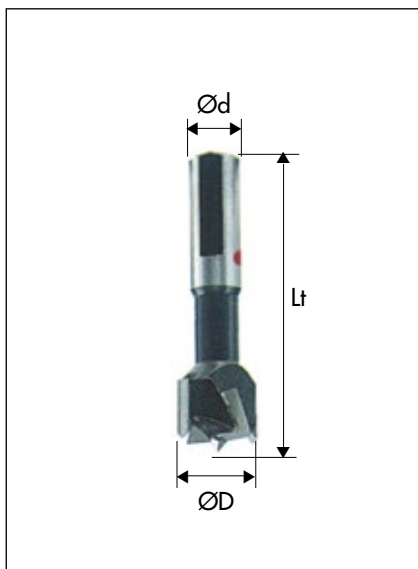
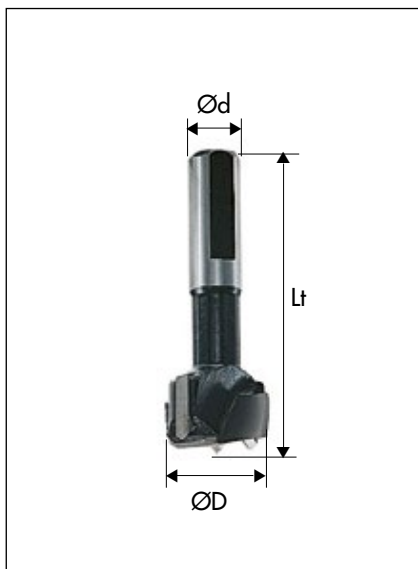
Punte per cerniere Z=2+2 attacco filettato internamente
Boring bits for hinges Z=2+2 with inner threaded shank



Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
22 dx	30	M12x1	04090022000
22 sx	30	M12x1	04090022001
24 dx	30	M12x1	04090024000
24 sx	30	M12x1	04090024001
25 dx	30	M12x1	04090025000
25 sx	30	M12x1	04090025001
26 dx	30	M12x1	04090026000
26 sx	30	M12x1	04090026001
28 dx	30	M12x1	04090028000
28 sx	30	M12x1	04090028001
30 dx	30	M12x1	04090030000
30 sx	30	M12x1	04090030001
32 dx	30	M12x1	04090032000
32 sx	30	M12x1	04090032001
34 dx	30	M12x1	04090034000
34 sx	30	M12x1	04090034001
35 dx	30	M12x1	04090035000
35 sx	30	M12x1	04090035001
36 dx	30	M12x1	04090036000
38 dx	30	M12x1	04090038000
40 dx	30	M12x1	04090040000
45 dx	30	M12x1	04090045000
50 dx	30	M12x1	04090050000
55 dx	30	M12x1	04090055000
60 dx	30	M12x1	04090060000

410

Punte per cerniere Z=2+2
Boring bits for hinges Z=2+2



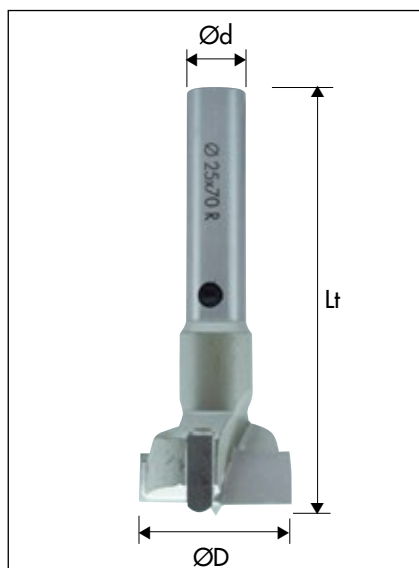
Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
15 dx	57,5	10	04100015000
15 sx	57,5	10	04100015001
15 dx	70	10	04100015070
15 sx	70	10	04101015070
16 dx	57,5	10	04100016000
16 sx	57,5	10	04100016001
16 dx	70	10	04100016070
16 sx	70	10	04101016070
17 dx	57,5	10	04100017000
17 sx	57,5	10	04100017001
18 dx	57,5	10	04100018000
18 sx	57,5	10	04100018001
18 dx	70	10	04100018070
18 sx	70	10	04101018070
20 dx	57,5	10	04100020000
20 sx	57,5	10	04100020001
20 dx	70	10	04100020070
20 sx	70	10	04101020070
22 dx	57,5	10	04100022000
22 sx	57,5	10	04100022001
24 dx	57,5	10	04100024000
24 sx	57,5	10	04100024001
25 dx	57,5	10	04100025000
25 sx	57,5	10	04100025001
25 dx	70	10	04100025070
25 sx	70	10	04101025070
26 dx	57,5	10	04100026000
26 sx	57,5	10	04100026001
26 dx	70	10	04100026070
26 sx	70	10	04101026070
28 dx	57,5	10	04100028000
28 sx	57,5	10	04100028001
30 dx	57,5	10	04100030000
30 sx	57,5	10	04100030001
30 dx	70	10	04100030070
30 sx	70	10	04101030070
32 dx	57,5	10	04100032000
32 sx	57,5	10	04100032001
35 dx	57,5	10	04100035000
35 sx	57,5	10	04100035001
35 dx	70	10	04100035070
35 sx	70	10	04101035070
40 dx	57,5	10	04100040000
40 sx	57,5	10	04100040001
40 dx	70	10	04100040070
40 sx	70	10	04101040070

4



410 R

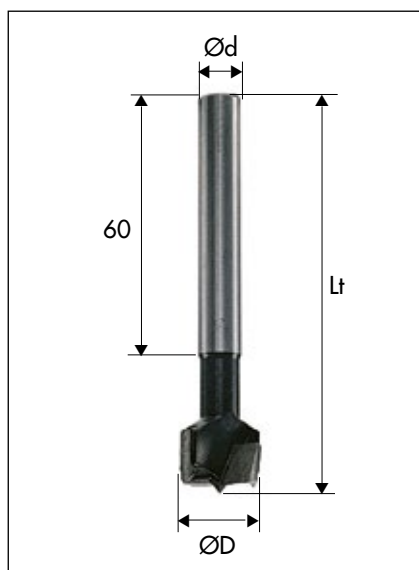
Punte per cerniere Z=2+2 rasante raggato
Boring bits for hinges Z=2+2 with round spurs



Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
15 dx	57,5	10	0410R015000
15 sx	57,5	10	0410R015001
15 dx	70	10	0410R015070
15 sx	70	10	0410R115070
16 dx	57,5	10	0410R016000
16 sx	57,5	10	0410R016001
16 dx	70	10	0410R016070
16 sx	70	10	0410R116070
18 dx	57,5	10	0410R018000
18 sx	57,5	10	0410R018001
18 dx	70	10	0410R018070
18 sx	70	10	0410R118070
20 dx	57,5	10	0410R020000
20 sx	57,5	10	0410R020001
20 dx	70	10	0410R020070
20 sx	70	10	0410R120070
25 dx	57,5	10	0410R025000
25 sx	57,5	10	0410R025001
25 dx	70	10	0410R025070
25 sx	70	10	0410R125070
26 dx	57,5	10	0410R026000
26 sx	57,5	10	0410R026001
26 dx	70	10	0410R026070
26 sx	70	10	0410R126070
30 dx	57,5	10	0410R030000
30 sx	57,5	10	0410R030001
30 dx	70	10	0410R030070
30 sx	70	10	0410R130070
35 dx	57,5	10	0410R035000
35 sx	57,5	10	0410R035001
35 dx	70	10	0410R035070
35 sx	70	10	0410R135070
40 dx	57,5	10	0410R040000
40 sx	57,5	10	0410R040001
40 dx	70	10	0410R040070
40 sx	70	10	0410R140070

411

Punte per cerniere Z=2+2 rotazione destra
Boring bits for hinges Z=2+2 righthand rotation

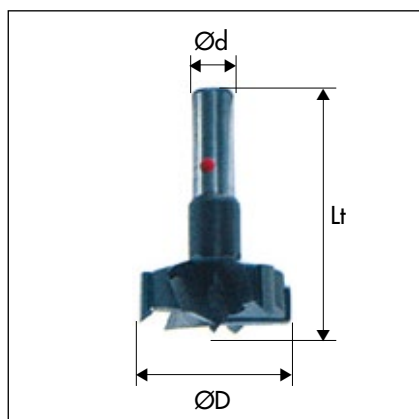
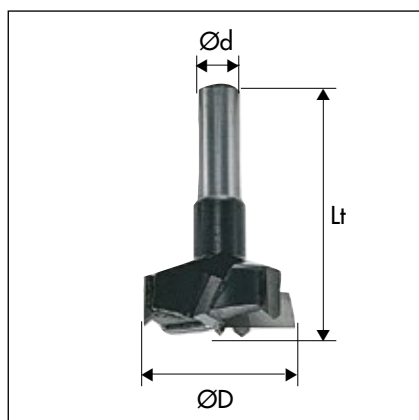


Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
15	90	10	04110015000
16	90	10	04110016000
17	90	10	04110017000
18	90	10	04110018000
20	90	10	04110020000
22	90	10	04110022000
24	90	10	04110024000
25	90	10	04110025000
26	90	10	04110026000
28	90	10	04110028000
30	90	10	04110030000
32	90	10	04110032000
35	90	10	04110035000

4

412

Punte per cerniere Z=3+3
Boring bits for hinges Z=3+3

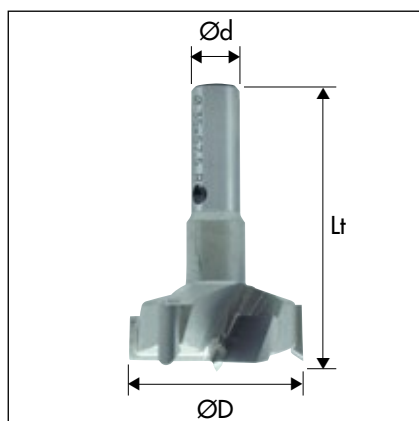


Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
25 dx	57,5	10	04120025000
25 sx	57,5	10	04120025001
25 dx	70	10	04120025070
25 sx	70	10	04121025070
30 dx	57,5	10	04120030000
30 sx	57,5	10	04120030001
30 dx	70	10	04120030070
30 sx	70	10	04121030070
35 dx	57,5	10	04120035000
35 sx	57,5	10	04120035001
35 dx	70	10	04120035070
35 sx	70	10	04121035070
40 dx	57,5	10	04120040000
40 sx	57,5	10	04120040001
40 dx	70	10	04120040070
40 sx	70	10	04121040070



412 R

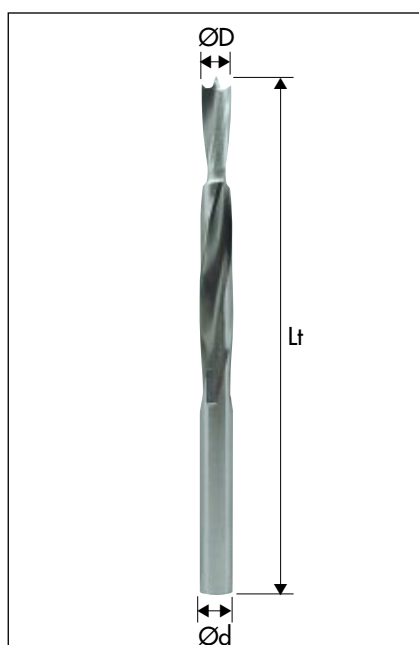
Punte per cerniere Z=3+3 rasante raggiato
Boring bits for hinges Z=3+3 with round spurs



Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
25 dx	57,5	10	0412R025000
25 sx	57,5	10	0412R025001
25 dx	70	10	0412R025070
25 sx	70	10	0412R125070
30 dx	57,5	10	0412R030000
30 sx	57,5	10	0412R030001
30 dx	70	10	0412R030070
30 sx	70	10	0412R130070
35 dx	57,5	10	0412R035000
35 sx	57,5	10	0412R035001
35 dx	70	10	0412R035070
35 sx	70	10	0412R135070
40 dx	57,5	10	0412R040000
40 sx	57,5	10	0412R040001
40 dx	70	10	0412R040070
40 sx	70	10	0412R140070

4

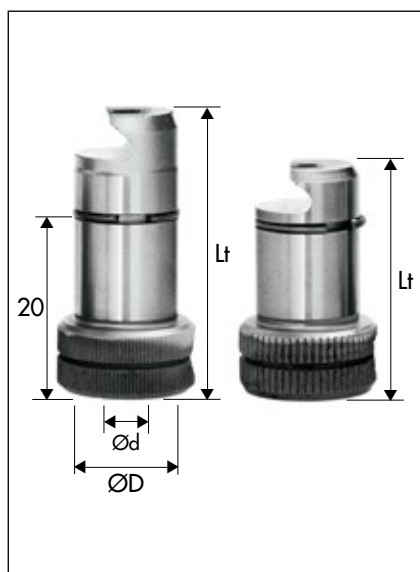
Anuba HSS



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
4,5	10	86	5,25	ANUBA9
5	15	95	5,75	ANUBA11
5,75	17	108	6,75	ANUBA13
6,25	20	108	7,25	ANUBA14
6,75	20	114	7,75	ANUBA16
7,75	20	125	8,75	ANUBA18

504

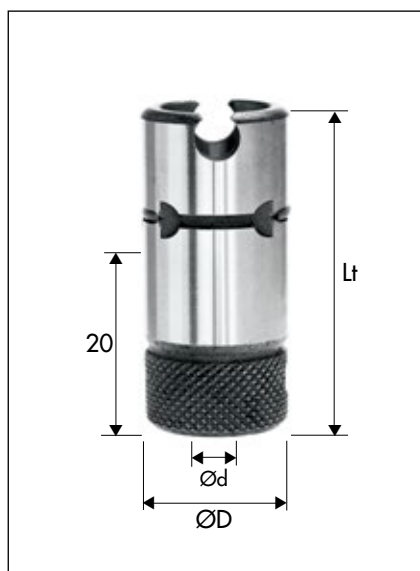
Mandrini portapunte per cambio rapido - Macchine BIESSE
Drill holders for rapid change - Machines BIESSE



Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
20	30	10	05040020030
20	37	10	05040020037

505

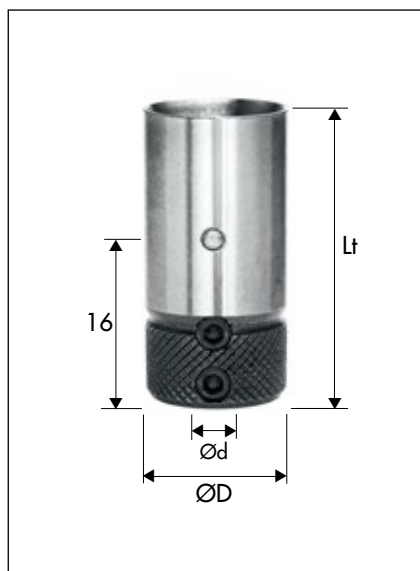
Mandrini portapunte per cambio rapido - Macchine MORBIDELLI
Drill holders for rapid change - Machines MORBIDELLI



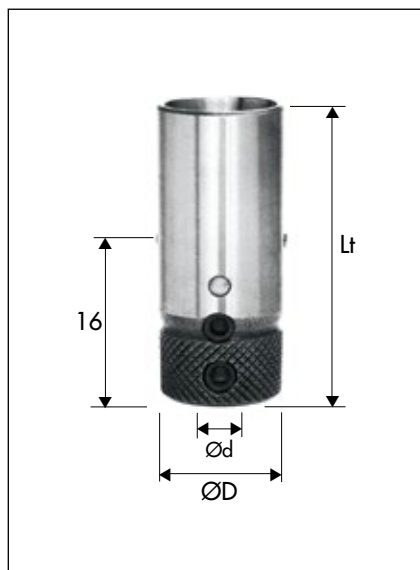
Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
20	43	10	05050020043
16	43	10	05050016043
20 dx	43	M10	05050020M10
20 sx	43	M10	05051020M10

506

Mandrini portapunte per cambio rapido -
Macchine MASTERWOOD - MAGGI - GRIGGIO
Drill holders for rapid change -
Machines MASTERWOOD - MAGGI - GRIGGIO



Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
20	40	10	05060020000



507

Mandrini portapunte per cambio rapido - Macchine VITAP
Drill holders for rapid change - Machines VITAP

Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
18	42	10	05070018000



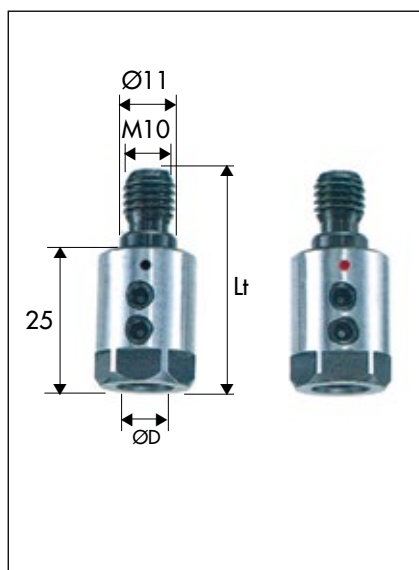
509

Mandrini portapunte per cambio rapido - Macchine WEEKE
Drill holders for rapid change - Machines WEEKE

Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
20	46	10	05090020000

513

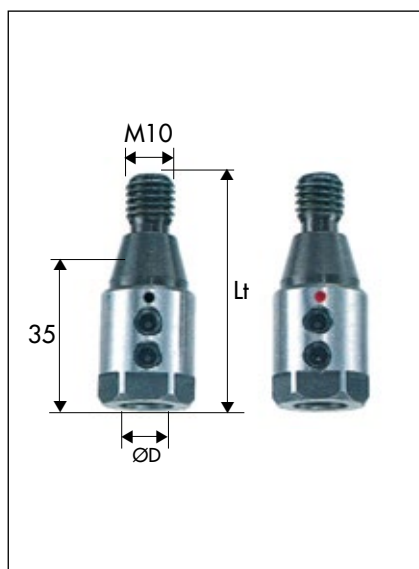
Mandrini portapunte per foratrici
Drill holders



Ø D mm	Lt mm	Attacco	Codice ordine
3 dx	41	M10	05130003000
3 sx	41	M10	05130003001
4 dx	41	M10	05130004000
4 sx	41	M10	05130004001
5 dx	41	M10	05130005000
5 sx	41	M10	05130005001
10 dx	41	M10	05130010000
10 sx	41	M10	05130010001

514

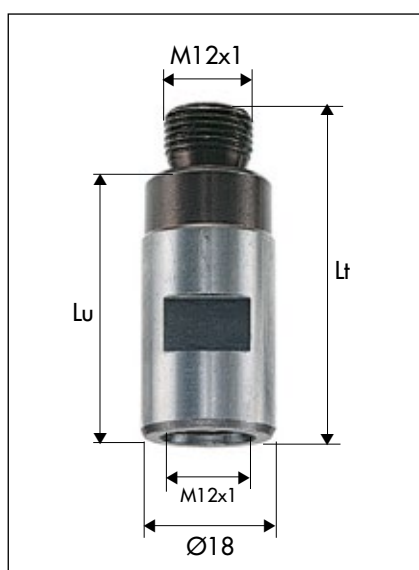
Mandrini portapunte per foratrici
Drill holders



Ø D mm	Lt mm	Attacco	Codice ordine
3 dx	47	M10	05140003000
3 sx	47	M10	05140003001
4 dx	47	M10	05140004000
4 sx	47	M10	05140004001
5 dx	47	M10	05140005000
5 sx	47	M10	05140005001
10 dx	47	M10	05140010000
10 sx	47	M10	05140010001

517

Prolunghe rotazione dx
Extention chucks righthand rotation

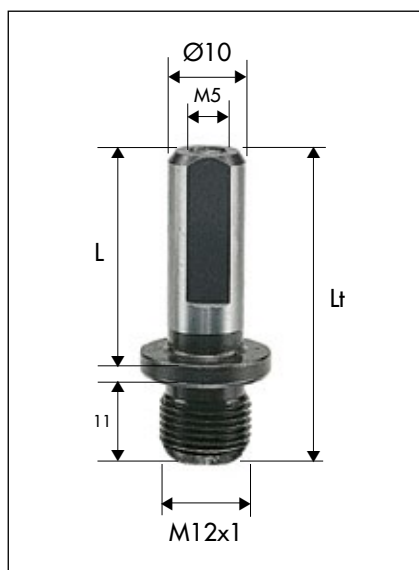


Lt mm	Lu mm	Attacco	Codice ordine
45	35	M12x1	05170000000



518

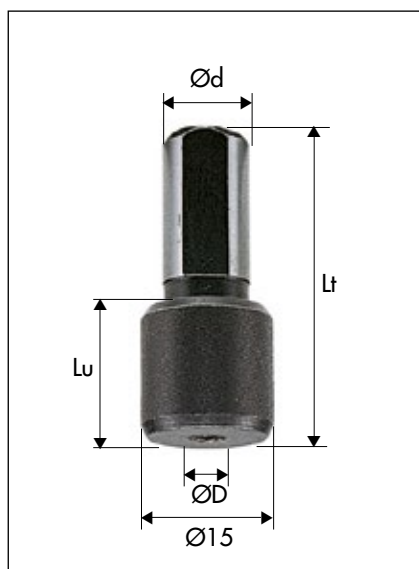
Mandrini portapunte per articolo 409
Chucks for boring bits art. 409



Ø D mm	L mm	Lt mm	Attacco	Codice ordine
10 dx	24,5	38,5	M12x1	05180000000
10 sx	24,5	38,5	M12x1	05180000001
10 dx	37	51	M12x1	05180010040
10 sx	37	51	M12x1	05181010040

519

Mandrini portapunte per articolo 393-394-394/1
Chucks for drills art. 393-394-394/1



Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
3	15	35	10	05190003000
4	15	35	10	05190004000
5	15	35	10	05190005000

522

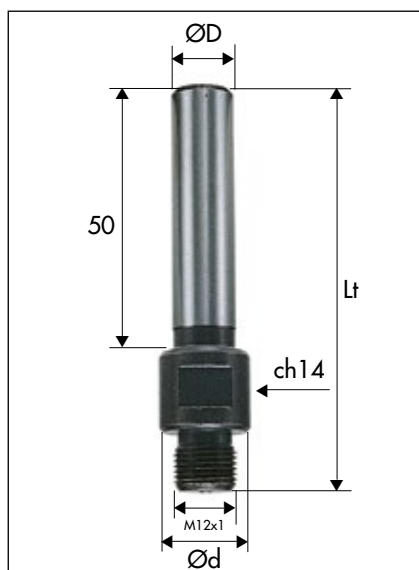
Mandrini portapunte CM2
Chucks with Morse's taper Nbr. 2



Ø D mm	Attacco	Codice ordine	Prezzo €
17	CM2	05220000000	13,50

523

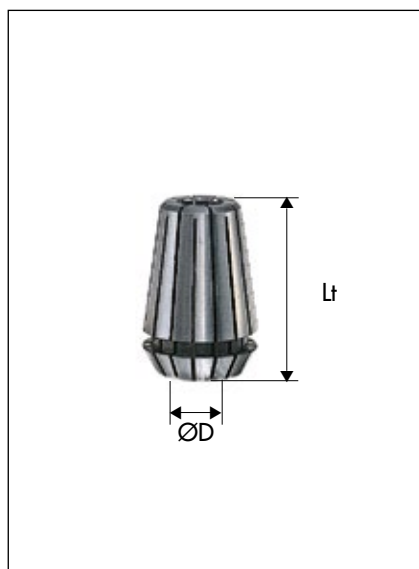
Mandrini portapunte - Attacco cilindrico
Chucks with cylindrical shank



Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
8	76	17	05230008000
9,5	76	17	05230009500
10	76	17	05230010000
12	76	17	05230012000
13	76	17	05230013000
16	76	17	05230016000

525/3

Pinze ER20 per articolo 525/2 - Collets ER20 for art. 525/2



Ø D mm	Lt	Codice ordine
3	31	05253000300
4	31	05253000400
5	31	05253000500
6	31	05253000600
8	31	05253000800
10	31	05253001000
12	31	05253001200
13	31	05253001300

5



525/4

Pinze ER25 - Collets ER25



Ø D mm	Lt	Codice ordine
3	34	05254000300
4	34	05254000400
5	34	05254000500
6	34	05254000600
8	34	05254000800
10	34	05254001000
12	34	05254001200
14	34	05254001400
16	34	05254001600

528

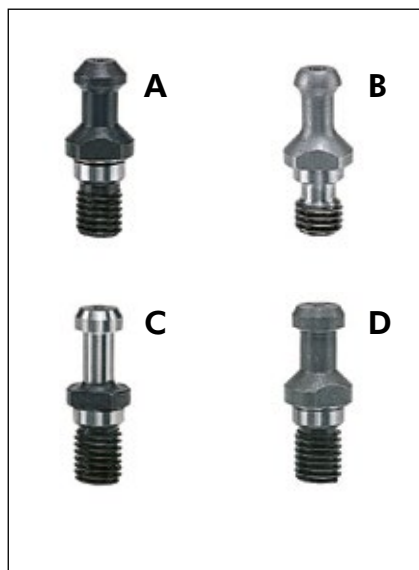
Mandrini attacco ISO=30 rotazione destra e sinistra
Chucks ISO=30 right- and lefthand rotation



	Lu mm	Attacco	Codice ordine
dx	30	ISO 30	05283003000
dx	50	ISO 30	05283005000
sx	30	ISO 30	05283003001
sx	50	ISO 30	05283005001

528/1

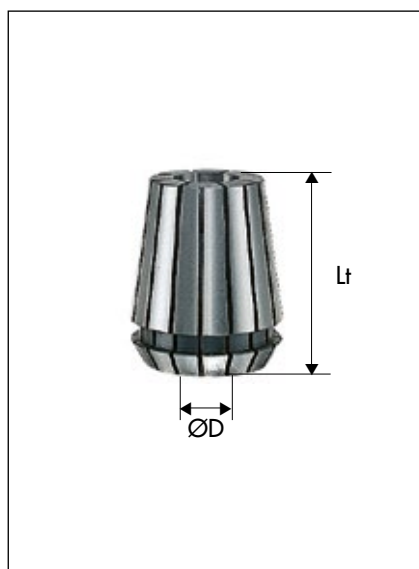
Attacchi speciali per art. 528
Special shanks for art. 528



	Codice ordine
A - Attacco per Alberti	05280000001
B - Attacco per Biesse	05280000002
C - Attacco per Biesse	05280000003
D - Attacco per Vitap	05280000004

528/2

Pinze ER32 per articolo 528
Collets ER32 for art. 528



Ø D mm	Lt	Codice ordine
3	40	05282000300
4	40	05282000400
5	40	05282000500
6	40	05282000600
8	40	05282000800
10	40	05282001000
12	40	05282001200
13	40	05282001300
14	40	05282001400
16	40	05282001600
18	40	05282001800
20	40	05282002000

528/3

Chiavi per articolo 528
Keys for art. 528



	Codice ordine
chiave per ghiera ER32	05283000032
chiave per ghiera ER40	05283000040



528/4

Mandrini attacco CM2 per pinze ER32
Chucks with Morse's taper Nbr. 2 for collets ER32



		Codice ordine
DX	CM2	05284000000

529

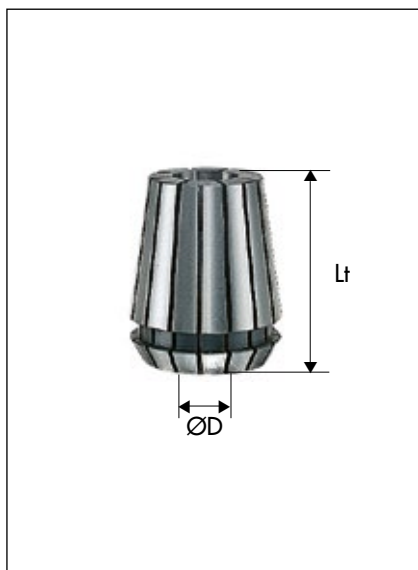
Mandrini HSK-63-F
Chucks HSK-63-F



Ø D mm	H mm		Codice ordine
50	73	PINZE ER32	05290032000
63	78	PINZE ER40	05290040000

529/1

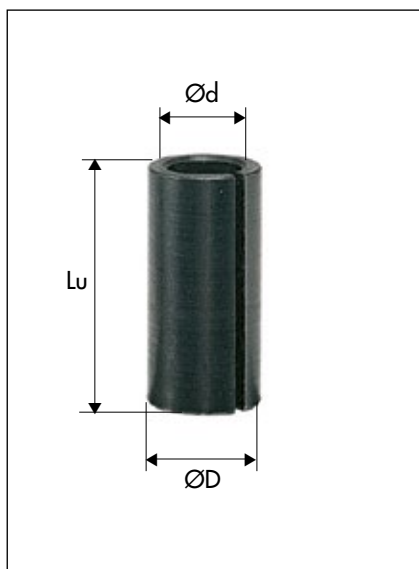
Pinze ER40
Collets ER40



Ø D mm	Lt mm	Codice ordine
3	46	05291000300
4	46	05291000400
5	46	05291000500
6	46	05291000600
8	46	05291000800
10	46	05291001000
12	46	05291001200
14	46	05291001400
16	46	05291001600
18	46	05291001800
20	46	05291002000
22	46	05291002200
24	46	05291002400
26	46	05291002600
28	46	05291002800
30	46	05291003000

530

Adattatori
Adapters



Ø D esterno	Lu	Ø d interno	Codice ordine
8	20	6	05300006080
9,5	20	6	05300006095

5



533

Mandrini HSK-63-F HYDRO
Hydro HSK-63-F chucks



	ØD interno	Codice ordine
HSK-63-F	25	05330000000

533/1

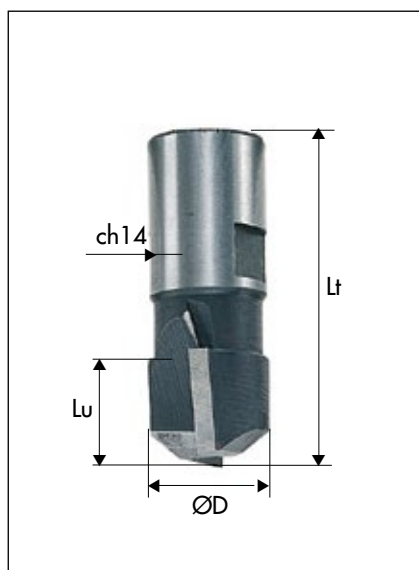
Pinze per mandrini HYDRO
Collets for HYDRO chucks



Ød interno	ØD interno	Codice ordine
3	25	05331000300
4	25	05331000400
5	25	05331000500
6	25	05331000600
8	25	05331000800
10	25	05331001000
12	25	05331001200
14	25	05331001400
16	25	05331001600
18	25	05331001800
20	25	05331002000

631

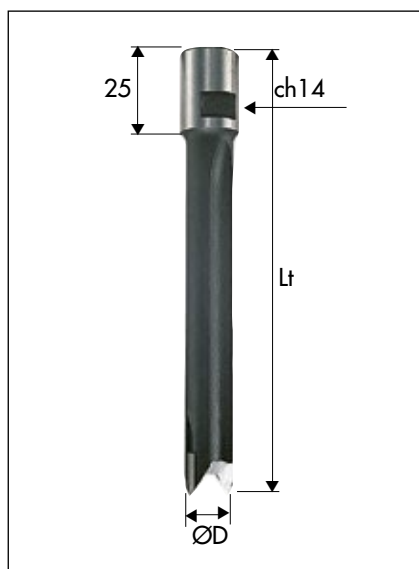
Frese per cavettatrici
Milling cutters for slot-mortisers



Ø D mm	Lu mm	Lt mm	Attacco	Codice ordine
20	15	48	M12x1	06310020002
22	15	48	M12x1	06310022002
23	15	48	M12x1	06310023002

632

Frese per cavettatrici
Milling cutters for slot-mortisers



Ø D mm	Lt mm	Attacco	Codice ordine
15	100	M12x1	06321015010
16	100	M12x1	06321016010
17	100	M12x1	06321017010
18	100	M12x1	06321018010

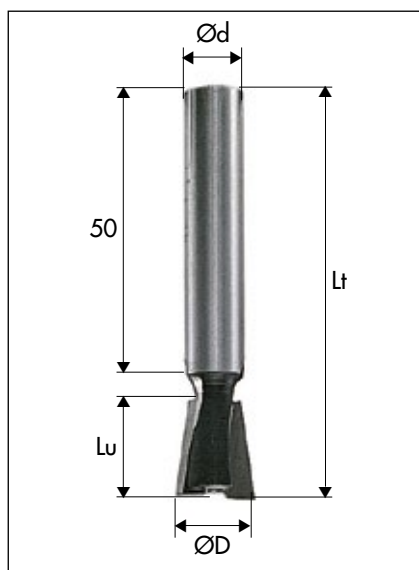
633

Frese per cavettatrici
Milling cutters for slot-mortisers



Ø D mm	Lt mm	Attacco	Codice ordine
15	100	M12x1	06330015002
18	100	M12x1	06330018002
20	100	M12x1	06330020002
22	100	M12x1	06330022002
24	100	M12x1	06330024002

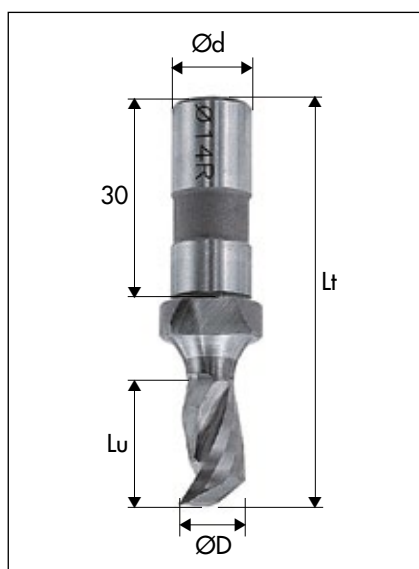




638

Frese a coda di rondine
Dovetail cutters

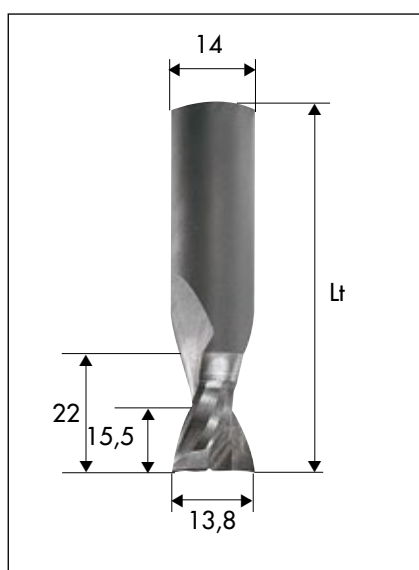
Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
14	15	68	10	06380014015
14,5	15,5	68,5	10	06380014515



639

Frese a coda di rondine integrali
Solid carbide dovetail cutters

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
14	18	59	12	06390014012



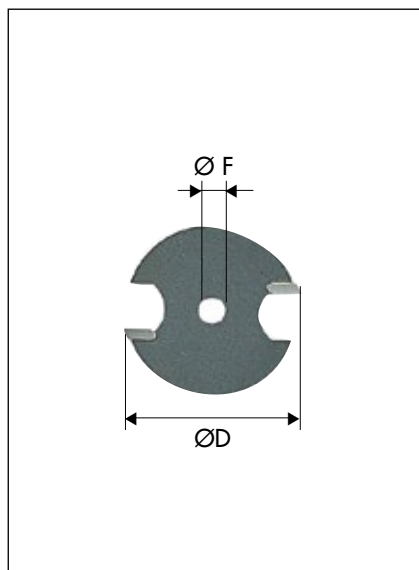
639/1

Frese a coda di rondine OMEC integrali elicoidali Z=2
Solid carbide spiral dovetails cutters OMEC Z=2

Ø D mm	Lu mm	Lt mm	Ø d attacco mm	Codice ordine
13,8	15,5	60	14	06391000000

640

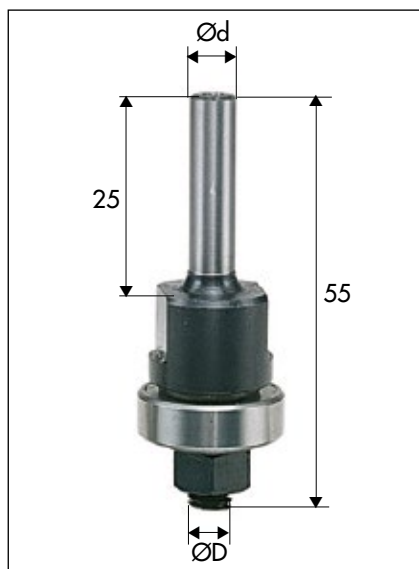
Frese per piccoli incastri Z=2
Grooving cutters



Ø D mm	S	Ø F mm	Codice ordine
40	1,5	6	06400401506
40	1,8	6	06400401806
40	2,0	6	06400400206
40	2,2	6	06400402206
40	2,5	6	06400402506
40	2,8	6	06400402806
40	3,0	6	06400400306
40	3,5	6	06400403506
40	4,0	6	06400400406
40	5,0	6	06400400506
40	6,0	6	06400400606

641

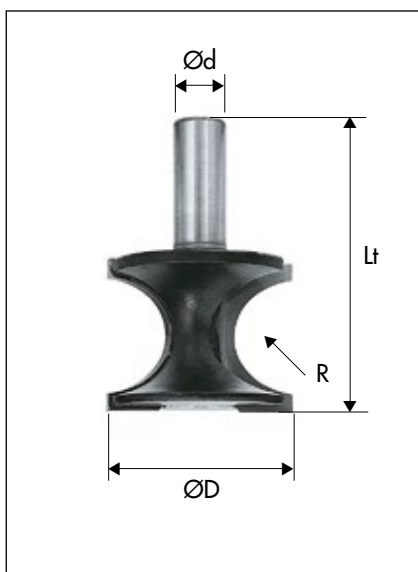
Mandrini per art. 640
Holding chucks for art. 640



Ø d attacco mm	ØD mm	Ø Cuscinetto mm	Codice ordine
6	6	19	06410190006
8	6	19	06410190008

6

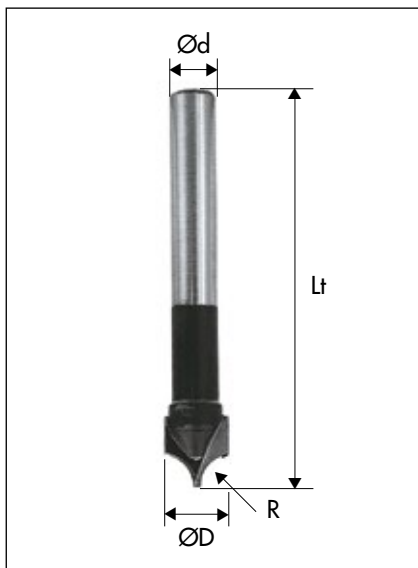




737

Frese a profilo concavo
Bits with concave profile

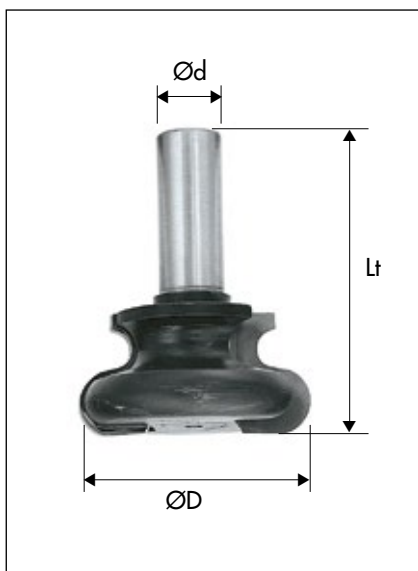
Ø D mm	R mm	Lt mm	Ø d'attacco mm	Codice ordine
18	5	50	6	07370005060
18	5	50	8	07370005080
22	6	50	6	07370006060
22	6	50	8	07370006080
27	7,5	50	8	07370075080
35	10	55	8	07370010080
35	10	55	12	07370010012
42	12,5	65	12	07370125012



738

Frese a profilo concavo
Bits with concave profile

Ø D mm	R mm	Lt mm	Ø d'attacco mm	Codice ordine
8	4	50	6	07380004060
10	5	50	6	07380005060

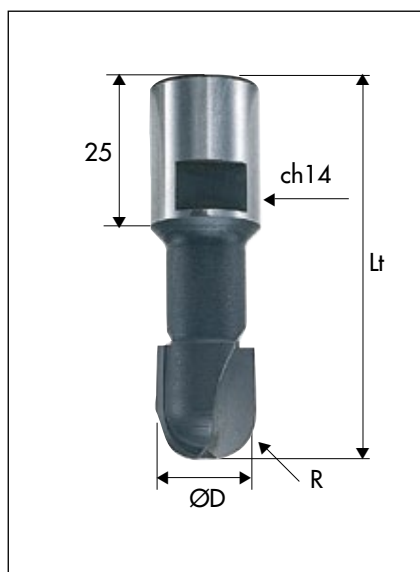


739

Frese sagomate per maniglie (a richiesta)
Profiling bits for handles (on request)

740

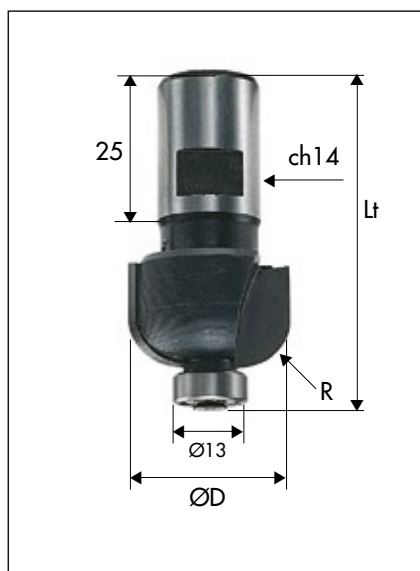
Frese per profilare attacco filettato internamente
Profiling bits cutters with inner threaded shank



Ø D mm	Lt mm	R mm	Attacco	Codice ordine
16	60	8	M12x1	07402016008
20	60	10	M12x1	07402020010
25	60	12,5	M12x1	07402025012
30	60	15	M12x1	07402030015

741

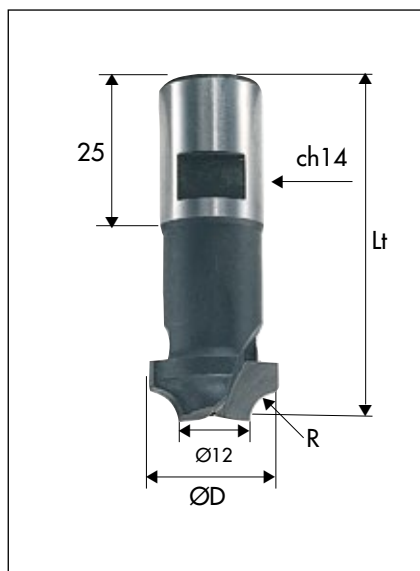
Frese per profilare attacco filettato internamente
Profiling bits with inner threaded shank



Ø D mm	Lt mm	R mm	Attacco	Codice ordine
28	57	7,5	M12x1	07412028075
33	57	10	M12x1	07412033010

742

Frese per profilare attacco filettato internamente
Profiling bits with inner threaded shank

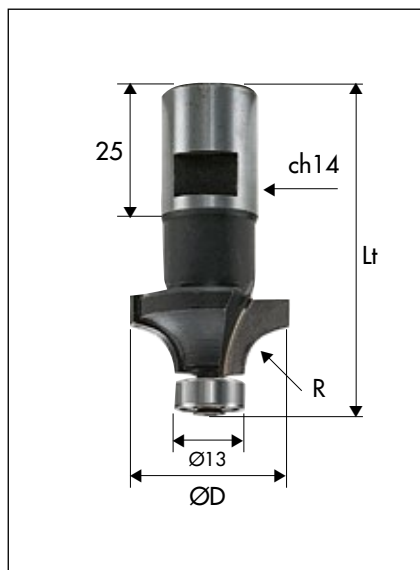


Ø D mm	Lt mm	R mm	Attacco	Codice ordine
21	60	4	M12x1	07422021004
23	60	5	M12x1	07422023005
25	60	6	M12x1	07422025006
29	60	8	M12x1	07422027008
33	60	10	M12x1	07422033010
37	60	12	M12x1	07422037012
43	60	15	M12x1	07422042015



743

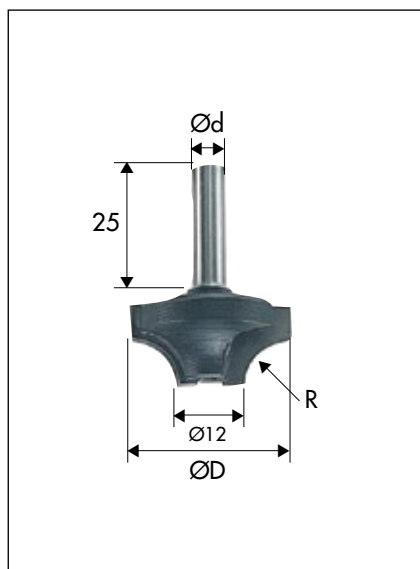
Frese per profilare attacco filettato internamente
Profiling bits with inner threaded shank



Ø D mm	Lt mm	R mm	Attacco	Codice ordine
29	57	7,5	M12x1	07432028075
34	57	10	M12x1	07432033010

744

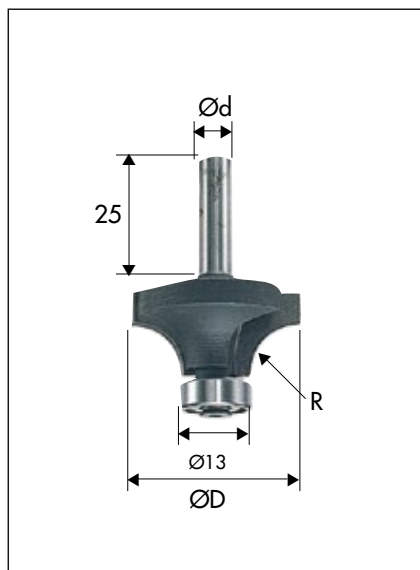
Frese per profilare - Profiling bits



Ø D mm	R mm	Ø d attacco mm	Codice ordine
19	3	6	07440019060
19	3	8	07440019080
21	4	6	07440021060
21	4	8	07440021080
23	5	6	07440023060
23	5	8	07440023080
25	6	6	07440025060
25	6	8	07440025080
29	8	6	07440029060
29	8	8	07440029080
33	10	6	07440033060
33	10	8	07440033080
37	12	8	07440037080
37	12	12	07440037120
43	15	8	07440043080
43	15	12	07440043120

745

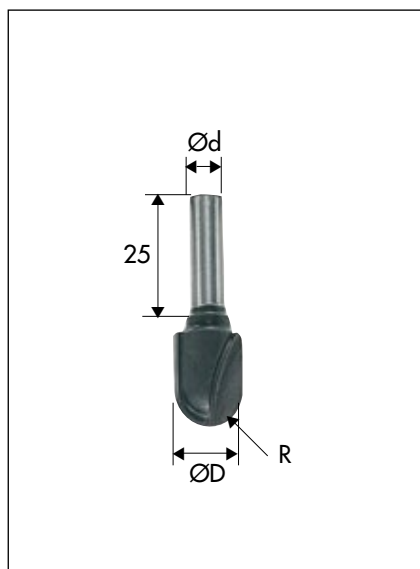
Frese per profilare - Profiling bits



Ø D mm	R mm	Ø d attacco mm	Codice ordine
20	3	6	07450020060
20	3	8	07450020080
22	4	6	07450022060
22	4	8	07450022080
24	5	6	07450024060
24	5	8	07450024080
26	6	6	07450026060
26	6	8	07450026080
30	8	6	07450030060
30	8	8	07450030080
34	10	6	07450034060
34	10	8	07450034080
38	12	8	07450038080
38	12	12	07450038120
44	15	8	07450044080
44	15	12	07450044120
54	20	12	07450054120
64	25	12	07450064120

746

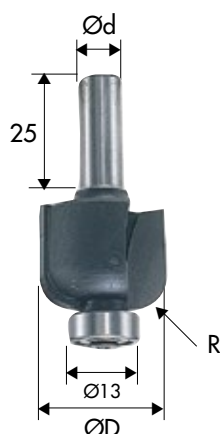
Frese per profilare - Profiling bits



Ø D mm	R mm	Ø d attacco mm	Codice ordine
10	5	6	07460010060
10	5	8	07460010080
12	6	6	07460012060
12	6	8	07460012080
14	7	6	07460014060
14	7	8	07460014080
16	8	6	07460016060
16	8	8	07460016080

747

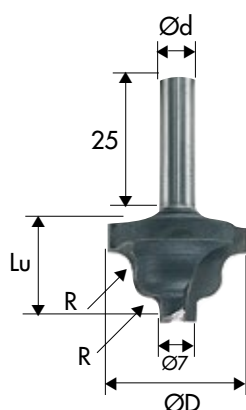
Frese per profilare - *Profiling bits*



Ø D mm	R mm	Ø d attacco mm	Codice ordine
23	5	6	07470023060
23	5	8	07470023080
25	6	6	07470025060
25	6	8	07470025080
27	7	6	07470027060
27	7	8	07470027080
29	8	6	07470029060
29	8	8	07470029080

748

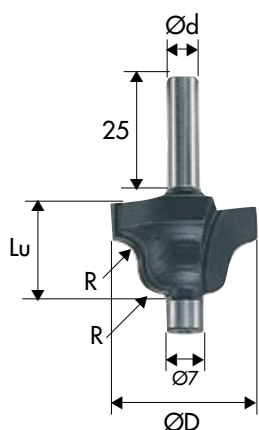
Frese per profilare - *Profiling bits*



Ø D mm	Lu mm	R mm	Ø d attacco mm	Codice ordine
23	17	4	6	07480023060
23	17	4	8	07480023080
27	21	5	6	07480027060
27	21	5	8	07480027080
31	25	6	6	07480031060
31	25	6	8	07480031080

749

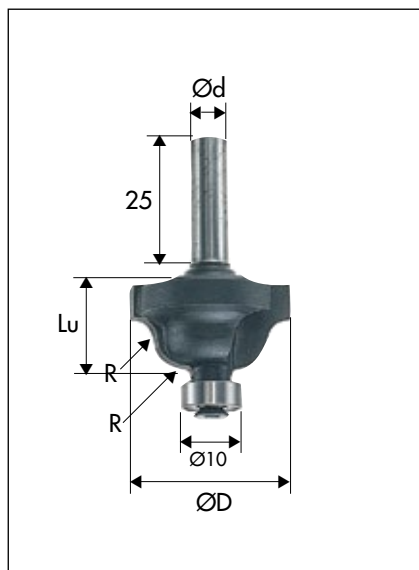
Frese per profilare - *Profiling bits*



Ø D mm	Lu mm	R mm	Ø d attacco mm	Codice ordine
23	13	4	6	07490023060
23	13	4	8	04790023080
27	17	5	6	07490027060
27	17	5	8	07490027080
31	20	6	6	07490031060
31	20	6	8	07490031080

750

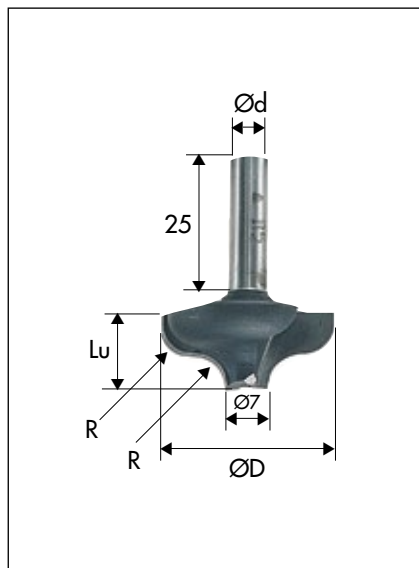
Frese per profilare - *Profiling bits*



Ø D mm	Lu mm	R mm	Ø d attacco mm	Codice ordine
26	14	4	6	07500026060
26	14	4	8	07500026080
30	16	5	6	07500030060
30	16	5	8	07500030080
36	19	6,5	6	07500036060
36	19	6,5	8	07500036080

751

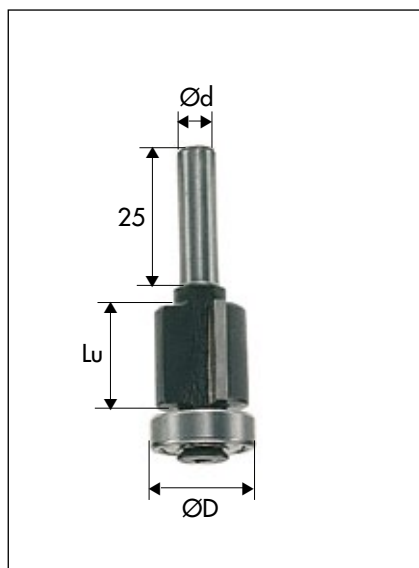
Frese per profilare - *Profiling bits*



Ø D mm	Lu mm	R mm	Ø d attacco mm	Codice ordine
27	12	5	6	07510027060
27	12	5	8	07510027080
37	17	7,5	6	07510037060
37	17	7,5	8	07510037080

752

Frese per rifilare
Trimming bits

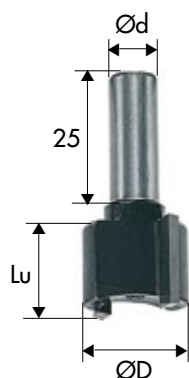


Ø D mm	Lu mm	Ø d attacco mm	Codice ordine
10	15	6	07520010060
10	15	8	07520010080
16	15	6	07520016060
16	15	8	07520016080
19	15	6	07520019060
19	15	8	07520019080



753

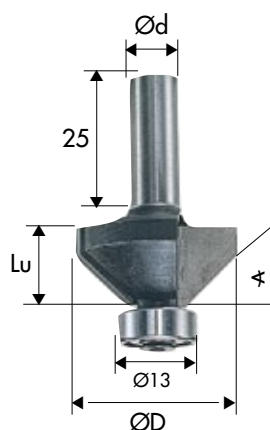
Frese per rifilare
Trimming bits



Ø D mm	Lu mm	Ø d attacco mm	Codice ordine
16	15	6	07530016060
16	15	8	07530016080
19	15	6	07530019060
19	15	8	07530019080

754

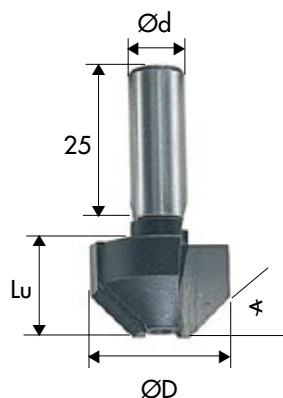
Frese per rifilare
Trimming bits



Ø D mm	45°	Lu mm	Ø d attacco mm	Codice ordine
26	45°	12	6	07540026060
26	45°	12	8	07540026080

755

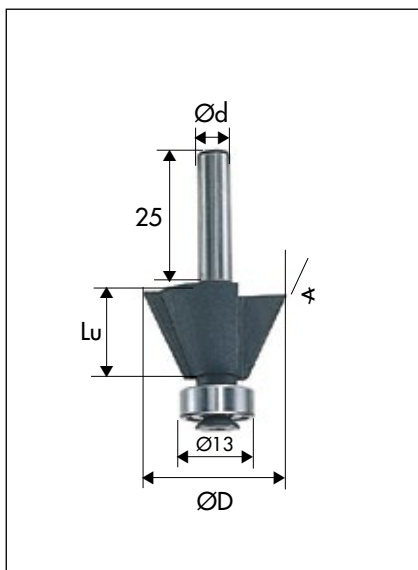
Frese per rifilare
Trimming bits



Ø D mm	45°	Lu mm	Ø d attacco mm	Codice ordine
19	45°	12	6	07550019060
19	45°	12	8	07550019080

756

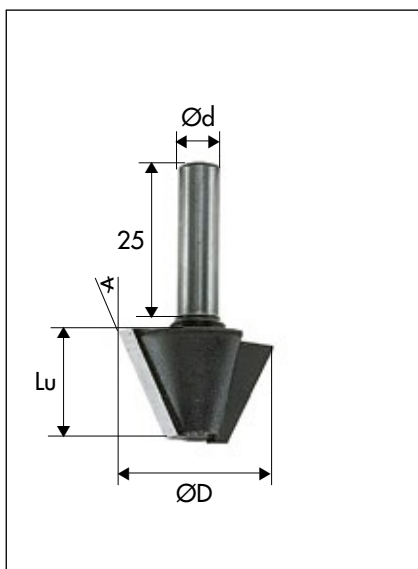
Frese per rifilare
Trimming bits



Ø D mm		Lu mm	Ø d attacco mm	Codice ordine
23	25°	15	6	07560025060
23	25°	15	8	07560025080

757

Frese per rifilare
Trimming bits



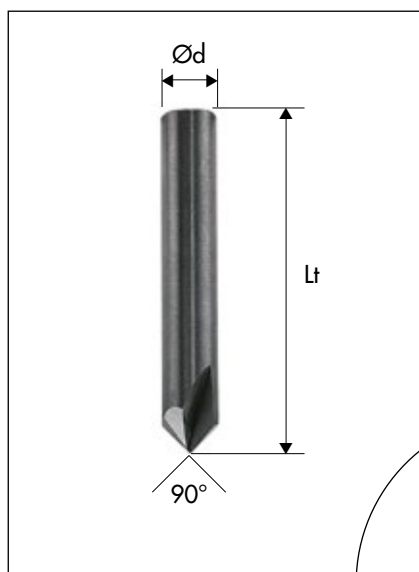
Ø D mm		Lu mm	Ø d attacco mm	Codice ordine
23	25°	15	6	07570025060
23	25°	15	8	07570025080

6

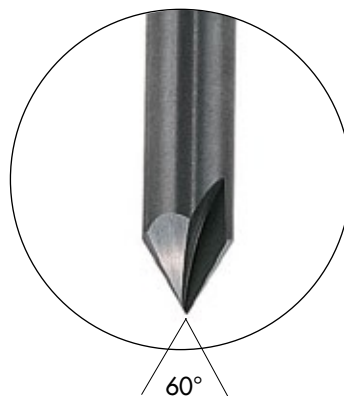
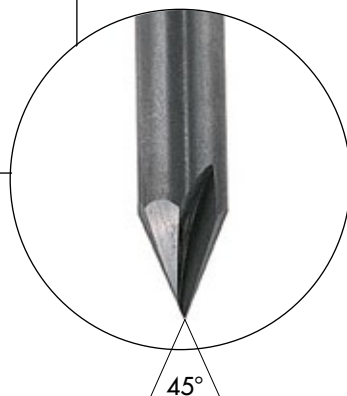


760

Frese integrali per intagli Z=2
Solid-carbide V grooving bits Z=2

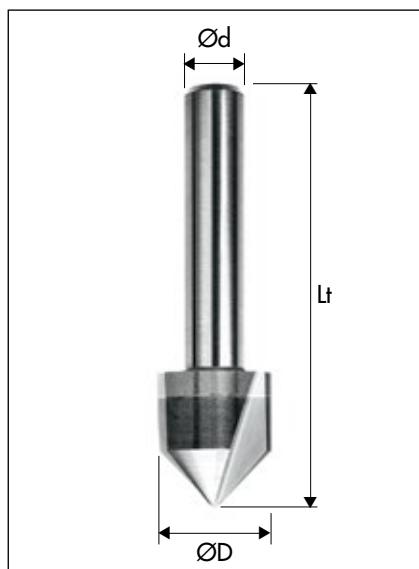


Ø D mm		Lt mm	Ø d attacco mm	Codice ordine
8	45°	60	8	07600045000
8	60°	60	8	07600060000
8	90°	60	8	07600090000



760/1

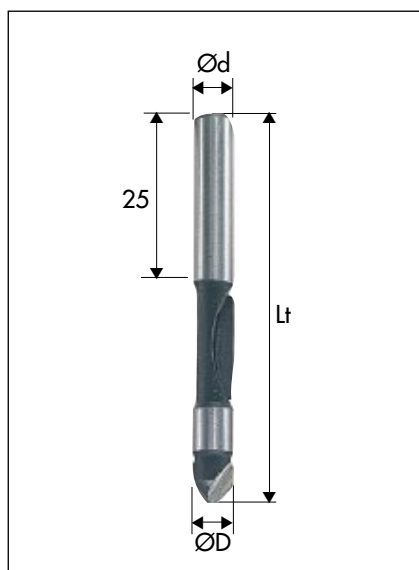
Svasatori a 45° Z=3
45° Countersinks Z=3



Ø D mm		Lt mm	Ø d attacco mm	Codice ordine
19,5	45°	70	10	07601000000

762

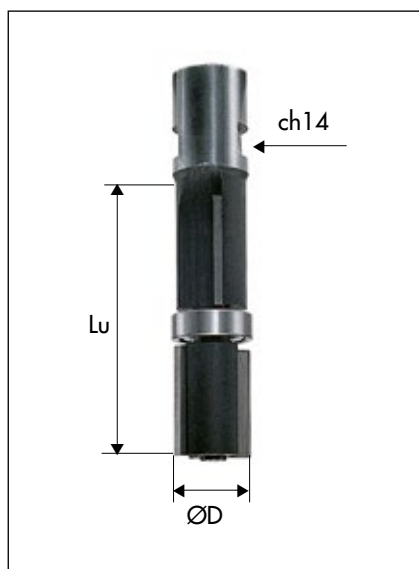
Frese per rifilare
Trimming bits



Ø D mm	Lt mm	Ø d attacco mm	Codice ordine
6	58	6	07620006060
8	63	8	07620008080

764

Frese per rifilare
Trimming bits



Ø D mm	Lu mm	Attacco	Codice ordine
19	58,5	M12x1	07640019002

765

Frese per rifilare
Trimming bits



Ø D mm	Lu mm	Attacco	Codice ordine
19	25	M12x1	07650019002

6



766



Frese coda di rondine Z=3 coltellini
con attacco D. 30 mm oppure con foro, liscia o con rompitruciolo
D. 60 taglienti assiali (**Prezzo a richiesta**)

*Dovetail cutters Z=3 with reversible knives
with shank $\varnothing$ 30 mm or with hole, $\varnothing$ 60 axial edge
finishing version or with chipbreaker (**Price on request**)*

865

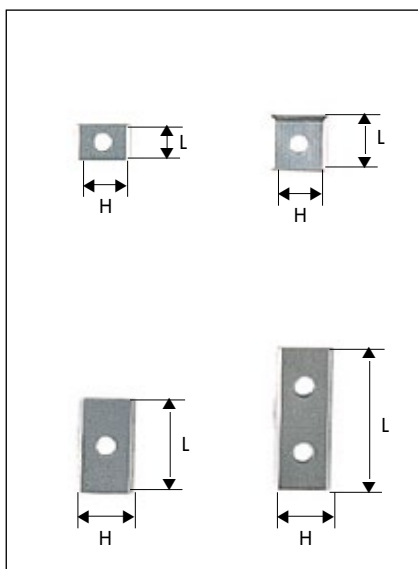
Coppia coltelli reversibili
Couple of reversible knives



Ø D mm		H mm	S mm	Codice ordine
80,5	ELU	5,9	1,2	08658055912
82	MAKITA A.E.G. HITACHI FELISATTI	5,5	1,1	08650825511

866

Coltelli a gettare
Reversible knives



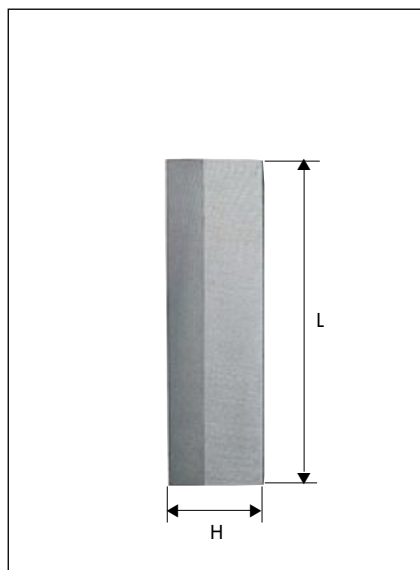
L mm	H mm	S mm	Ø Foro mm	Codice ordine
7,5	12	1,5	4	08660007750
9,6	12	1,5	4	08660009612
12	12	1,5	4	08660012012
14	14	1,2	8,5	08660014120
14	14	2,0	6,5	08660014014
15	12	1,5	4	08660015012
20	12	1,5	4	08660020012
30	12	1,5	4	08660030012
40	12	1,5	4	08660040012
50	12	1,5	4	08660050012
60	12	1,5	4	08660060012

7



867

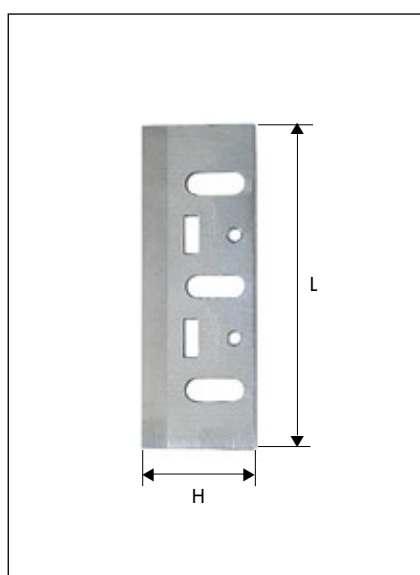
Coltelli piani per teste e pialle con riporti in HM
TCT-knives for planers and heads



L mm	H mm	S mm	Codice ordine
80	30	3	08673080000
100	30	3	08673100000
110	30	3	08673110000
120	30	3	08673120000
130	30	3	08673130000
140	30	3	08673140000
150	30	3	08673150000
160	30	3	08673160000
170	30	3	08673170000
180	30	3	08673180000
190	30	3	08673190000
200	30	3	08673200000
230	30	3	08673230000
250	30	3	08673250000
300	30	3	08673300000
350	30	3	08673350000
400	30	3	08673400000
500	30	3	08673500000
510	30	3	08673510000
530	30	3	08673530000
600	30	3	08673600000
610	30	3	08673610000
630	30	3	08673630000
810	30	3	08673810000

870 makita

Coltelli con riporti in HM
TCT-knives



L mm	H mm	S mm	Codice ordine
82	29	3	08700082029

E3-283

Frese per pantografo in diamante policristallino Z1+1 (POS.+NEG.) ECO
E3-283 PCD CUTTERS Z1 + 1 (POS. + NEG.) ECO



Ø D mm	Lu mm	Lt mm	Ø attacco mm	n.denti DIA+HM	Codice ordine
12 dx	25	74	12x40	3+1	E3283122531R
12 sx	25	74	12x40	3+1	E3283122531L
12 dx	35	83	12x40	4+1	E3283123541R
12 sx	35	83	12x40	4+1	E3283123541L
16 dx	25	87	20x50	3+1	E3283162531R
16 sx	25	87	20x50	3+1	E3283162531L
16 dx	35	96	20x50	4+1	E3283163541R
16 sx	35	96	20x50	4+1	E3283163541L
16 dx	44	104	20x50	5+1	E3283164451R
16 sx	44	104	20x50	5+1	E3283164451L
16 dx	52	113	20x50	6+1	E3283165261R
16 sx	52	113	20x50	6+1	E3283165261L
18 dx	25	87	20x50	3+1	E3283182531R
18 sx	25	87	20x50	3+1	E3283182531L
18 dx	35	96	20x50	4+1	E3283183541R
18 sx	35	96	20x50	4+1	E3283183541L
18 dx	44	104	20x50	5+1	E3283184451R
18 sx	44	104	20x50	5+1	E3283184451L
18 dx	52	113	20x50	6+1	E3283185261R
18 sx	52	113	20x50	6+1	E3283185261L
20 dx	25	87	20x50	3+1	E3283202531R
20 sx	25	87	20x50	3+1	E3283202531L
20 dx	35	96	20x50	4+1	E3283203541R
20 sx	35	96	20x50	4+1	E3283203541L
20 dx	44	104	20x50	5+1	E3283204451R
20 sx	44	104	20x50	5+1	E3283204451L
20 dx	52	113	20x50	6+1	E3283205261R
20 sx	52	113	20x50	6+1	E3283205261L

Fresa in diamante policristallino, tipo economico, a un tagliente in presa (Z1+1) con angolo positivo e negativo per una buona finitura sia sulla parte superiore che inferiore del pannello, da utilizzare con: MDF, truciolare, laminato o nobilitato. Costruita con acciaio selezionato, placchette in diamante altezza 2.7mm, foratore in HM ed equilibrata. Velocità di avanzamento fino a 5mt/min. Riaffilabile 4-5 volte con affilatura standard.

PCD cutter, economic type, with one cutting edge (Z1 + 1) with positive and negative angle for a good finishing both on the upper and lower part of the panel, to be used with: MDF, chipboard, laminate or melamine. Built with selected steel, PCD H2.7mm and HM-head drilling, balanced. Feed speed up to 5mt / min. Possibility of resharping up to 5 times



E4-283



Frese per pantografo in diamante policristallino Z2+2 (POS.+NEG.) ECO
E4-283 PCD CUTTERS Z2 + 2 (POS. + NEG.) ECO

Ø D mm	Lu mm	LT mm	Ø attacco mm	n.denti DIA+HM	Codice ordine
12 dx	25	80	12x50	6+1	E4283122561R
12 sx	25	80	12x50	6+1	E4283122561L
12 dx	35	90	12x50	8+1	E4283123581R
12 sx	35	90	12x50	8+1	E4283123581L
16 dx	25	87	20x50	6+1	E4283162561R
16 sx	25	87	20x50	6+1	E4283162561L
16 dx	35	96	20x50	8+1	E4283163581R
16 sx	35	96	20x50	8+1	E4283163581L
16 dx	44	104	20x50	10+1	E42831644101R
16 sx	44	104	20x50	10+1	E42831644101L
16 dx	52	113	20x50	12+1	E42831652121R
16 sx	52	113	20x50	12+1	E42831652121L
18 dx	25	87	20x50	6+1	E4283182561R
18 sx	25	87	20x50	6+1	E4283182561L
18 dx	35	96	20x50	8+1	E4283183581R
18 sx	35	96	20x50	8+1	E4283183581L
18 dx	44	104	20x50	10+1	E42831844101R
18 sx	44	104	20x50	10+1	E42831844101L
18 dx	52	113	20x50	12+1	E42831852121R
18 sx	52	113	20x50	12+1	E42831852121L
20 dx	25	87	20x50	6+1	E4283202561R
20 sx	25	87	20x50	6+1	E4283202561L
20 dx	35	96	20x50	8+1	E4283203581R
20 sx	35	96	20x50	8+1	E4283203581L
20 dx	44	104	20x50	10+1	E42832044101R
20 sx	44	104	20x50	10+1	E42832044101L
20 dx	52	113	20x50	12+1	E42832052121R
20 sx	52	113	20x50	12+1	E42832052121L

Fresa in diamante policristallino, tipo economico, a 2 taglienti in presa (Z2+2) con angolo positivo e negativo per una buona finitura sia sulla parte superiore che inferiore del pannello, da utilizzare con: MDF, truciolare, laminato o nobilitato. Costruita con acciaio selezionato, placchette in diamante altezza 2.7mm, foratore in HM ed equilibrata. Velocità di avanzamento fino a 10mt/min. Riaffilabile 4-5 volte con affilatura standard.

PCD cutter, economic type, with 2 cutting edges (Z2 + 2) with positive and negative angle for a good finishing both on the upper and lower part of the panel, to be used with: MDF, chipboard, laminate or melamine. Built with selected steel, PCD H2.7mm and HM-head drilling, balanced. Feed speed up to 10mt / min. Possibility of resharpening up to 5 times

N2-283



Fresa per pantografo in diamante policristallino Z2+2 NESTING
PCD Cutter Z2 + 2 NESTING

Ø D mm	Lu mm	Lt mm	Ø attacco mm	n.denti	H Pannello	Codice ordine
12 dx	20	65	12x40	6	15	N2283122006R
12 dx	25	70	12x40	8	20	N2283122508R
12 dx	30	75	12x40	10	25	N2283123010R
16 dx	25	80	16x50	8	20	N2283162508R
16 dx	30	85	16x50	10	25	N2283163010R

Fresa in diamante policristallino con corpo in acciaio speciale antivibrazione, 2 taglienti in presa (Z2+2) e angolo assiale alternato (2 positivi – tutti gli altri negativi), taglienti finitori, altezza placchette 2.7mm, foratore in HM, adatta a lavorazioni nesting su pannelli nobilitati, rivestiti, laminati, legni duri, MDF, HDF, HPL, lastre in fibra di carbonio. Velocità di avanzamento fino a 12 mt/min con mandrino a calettamento termico o Hydro, ottima asportazione di truciolo, eccellente finitura. Gambo in tolleranza h6. Equilibrata. Riaffilabile 2-3 volte con affilatura normale. Prima placchetta positiva, tutte le altre negative.

PCD cutter with special anti-vibration steel body, 2 cutting edges (Z2+2) and alternating axial angle (2 positive - all other negative), finishing cutting edges, PCD H2.7mm and HM-head drilling, suitable for nesting operations on coated, laminated, hardwood panels, MDF, HDF, HPL, carbon fiber sheets. Feed speed up to 12 mt / min with shrink fit or Hydro holders, excellent chip removal, excellent finishing. Shank tolerance h6. Balanced. Possibility of resharpening up to 3 times. First positive plate, all the others negative.

N3-283



Fresa per pantografo in diamante policristallino Z3+3 NESTING
PCD Cutter Z3 + 3 NESTING

Prima placchetta positiva, tutte le altre negative
First edge = positive, all others = negative.

Ø D mm	Lu mm	LT mm	Ø attacco mm	n.denti	H Pannello	Codice ordine
12 dx	18	65	12x40	8+1	12	N32831218081R
12 dx	25	70	12x40	11+1	20	N32831225111R
12 dx	30	75	12x40	14+1	25	N32831230141R
16 dx	25	80	16x50	11+1	20	N32831625111R
16 dx	35	92	16x50	17+1	25	N32831635171R

Tutte le placchette positive, l'ultima negativa (per uso con ventolina di aspirazione)
All edges = positive, only the last edge = negative (for use with fan)

Ø D mm	Lu mm	LT mm	Ø attacco mm	n.denti	H Pannello	Codice ordine
12 dx	18	65	12x40	8+1	12	N32831218081RV
12 dx	25	70	12x40	11+1	20	N32831225111RV
12 dx	30	75	12x40	14+1	25	N32831230141RV
16 dx	25	80	16x50	11+1	20	N32831625111RV
16 dx	35	92	16x50	17+1	25	N32831635171RV

Fresa in diamante policristallino con corpo in acciaio speciale antivibrazione, 3 taglienti in presa (Z3+3) e angolo assiale alternato (3 positivi – tutti gli altri negativi), taglienti finitori, altezza placchette 2.5mm (Ø12) e 3.5mm (Ø16), foratore in diamante, adatta a lavorazioni nesting su pannelli nobilitati, rivestiti, laminati, legni duri, MDF, HDF, HPL, lastre in fibra di carbonio. Velocità di avanzamento fino a 25 mt/min con mandrino a calettamento termico o Hydro, ottima asportazione di truciolo, eccellente finitura. Gambo in tolleranza h6. Equilibrata. Riaffilabile 2-3 volte con affilatura standard.

PCD cutter with special anti-vibration steel body, 3 cutting edges (Z3+3) and alternating axial angle (3 positive - all other negative), finishing cutting edges, PCD H2.5mm (Ø12) and H3.5mm (Ø16), PCD head drilling, suitable for nesting operations on melamine, coated, laminated panels, hardwoods, MDF, HDF, HPL, carbon fiber sheets. Feed speed up to 25 mt / min with shrink fit or Hydro holders, excellent chip removal, excellent finishing. Shank tolerance h6. Balanced. Possibility of resharping up to 3 times

I1-283



Fresa per pantografo in diamante policristallino Z=1
PCD Cutter Z = 1

Taglio neutro (no assiale) - *Neutral cutting*

Ø D mm	Lu mm	Lt mm	Ø attacco mm	n.denti		Codice ordine
6 dx	10	60	6	Z=1	integrale	IA1283006010R
8 dx	15	60	8	Z=1	integrale	IA1283008015R
10 dx	15	60	10	Z=1	integrale	IA1283010015R
12 dx	20	70	12	Z=1	integrale	IA1283012020R

Taglio positivo - *Positive cutting*

Ø D mm	Lu mm	Lt mm	Ø attacco mm	n.denti		Codice ordine
6 dx	10	60	6	Z=1	integrale	IP1283006010R
8 dx	15	60	8	Z=1	integrale	IP1283008015R
10 dx	15	60	10	Z=1	integrale	IP1283010015R
12 dx	20	70	12	Z=1	integrale	IP1283012020R

Taglio negativo - *Negative cutting*

Ø D mm	Lu mm	Lt mm	Ø attacco mm	n.denti		Codice ordine
6 dx	10	60	6	Z=1	integrale	IN1283006010R
8 dx	15	60	8	Z=1	integrale	IN1283008015R
10 dx	15	60	10	Z=1	integrale	IN1283010015R
12 dx	20	70	12	Z=1	integrale	IN1283012020R

Fresa in diamante policristallino con corpo in metallo duro integrale 1 o 2 taglienti in presa (Z1 o Z2), tagliente assiale neutro, positivo o negativo, foratore in HM, adatta per lavorazioni di pannelli nobilitati, rivestiti, laminati, legni duri, MDF, Corian. Velocità di avanzamento fino a 3-5 mt/min. Buona finitura e buona asportazione di truciolo. Gambo in tolleranza h6. Riaffilabile 5-6 volte con affilatura standard.

PCD cutter with solid carbide body and 1 or 2 cutting edges (Z1 or Z2), neutral, positive or negative axial cutting edge, suitable for melamine, coated, laminated, hardwood, MDF panels, Corian.

Feed speed up to 3-5 mt / min. Good finishing and good chip removal. Shank tolerance h6. Possibility of resharping up to 5-6 times.

12-283

Fresa per pantografo in diamante policristallino Z=2
PCD Cutter Z = 2

Taglio neutro (no assiale) - *Neutral cutting*

Ø D mm	Lu mm	LT mm	Ø attacco mm	n.denti		Codice ordine
6 dx	10	60	6	Z=2	integrale	IA2283006010R
8 dx	15	60	8	Z=2	integrale	IA2283008015R
10 dx	15	60	10	Z=2	integrale	IA2283010015R
12 dx	20	70	12	Z=2	integrale	IA2283012020R

Taglio positivo - *Positive cutting*

Ø D mm	Lu mm	LT mm	Ø attacco mm	n.denti		Codice ordine
6 dx	10	60	6	Z=2	integrale	IP2283006010R
8 dx	15	60	8	Z=2	integrale	IP2283008015R
10 dx	15	60	10	Z=2	integrale	IP2283010015R
12 dx	20	70	12	Z=2	integrale	IP2283012020R

Taglio negativo - *Negative cutting*

Ø D mm	Lu mm	LT mm	Ø attacco mm	n.denti		Codice ordine
6 dx	10	60	6	Z=2	integrale	IN2283006010R
8 dx	15	60	8	Z=2	integrale	IN2283008015R
10 dx	15	60	10	Z=2	integrale	IN2283010015R
12 dx	20	70	12	Z=2	integrale	IN2283012020R

Fresa in diamante policristallino con corpo in acciaio speciale antivibrazione, 3 taglienti in presa (Z3+3) e angolo assiale alternato (3 positivi – tutti gli altri negativi), taglienti finitori, altezza placchette 2.5mm (Ø12) e 3.5mm (Ø16), foratore in diamante, adatta a lavorazioni nesting su pannelli nobilitati, rivestiti, laminati, legni duri, MDF, HDF, HPL, lastre in fibra di carbonio. Velocità di avanzamento fino a 25 mt/min con mandrino a calettamento termico o Hydro, ottima asportazione di truciolo, eccellente finitura. Gambo in tolleranza h6. Equilibrata. Riaffilabile 2-3 volte con affilatura standard.

PCD cutter with special anti-vibration steel body, 3 cutting edges (Z3+3) and alternating axial angle (3 positive - all other negative), finishing cutting edges, PCD H2.5mm (Ø12) and H3.5mm (Ø16), PCD head drilling, suitable for nesting operations on melamine, coated, laminated panels, hardwoods, MDF, HDF, HPL, carbon fiber sheets. Feed speed up to 25 mt / min with shrink fit or Hydro holders, excellent chip removal, excellent finishing. Shank tolerance h6. Balanced. Possibility of resharpening up to 3 times

F3-283

Fresa per pantografo in diamante policristallino forte assialità
PCD cutter with strong axiality



Ø D mm	Lu mm	Lt mm	Ø attacco mm	n.denti	Codice ordine
50 dx	25	90	25x55	12	F32835025R
50 dx	35	100	25x55	18	F32835035R
50 dx	45	110	25x55	24	F32835045R

Fresa in diamante policristallino 3 taglienti in presa (Z3+3) angolo assiale positivo e negativo SIMMETRICO, inclinazione taglienti 54° per una perfetta finitura sia sulla parte superiore che inferiore del pannello, ma anche all'uscita del bordo.

Da utilizzare su pantografi e macchine CNC per materiali come: MDF, truciolare, laminato, nobilitato. Ideale per fresature di preparazione alla bordatura di pannelli in truciolare, (anche per bordatura LASER). Altezza placchette 4.5mm, velocità di avanzamento fino a 30 mt/min con mandrino a calettamento termico o Hydro, ottima asportazione di truciolo, eccellente finitura. Gambo in tolleranza h6. Equilibrata. Riaffilabile 6-7 volte con affilatura standard.

PCD cutter with 3 cutting edges (Z3+3), SYMMETRICAL positive and negative axial angle, cutting edge inclination 54 ° for a perfect finishing both on the top and bottom of the panel, but also at the exit. To be used on CNC machines for materials such as: MDF, chipboard, laminate, melamine. Ideal for milling of borders of chipboard panels, (also for LASER borders). PCD H 4.5mm, feed speed up to 30 m / min with shrink-fit or Hydro holders, excellent chip removal, excellent finishing. Shank tolerance h6. Balanced. Possibility to resharpening up to 6-7 times.



F2-283



Fresa per pantografo in diamante policristallino forte assialità
PCD cutter with strong axiality

Ø D mm	Lu mm	LT mm	Ø attacco mm	n.denti	Codice ordine
20 dx	35	100	20x50	14+1	F22832035141R
20 dx	45	100	20x50	18+1	F22832045181R

Fresa in diamante policristallino con angolo assiale positivo e negativo, inclinazione taglienti 54° per una perfetta finitura sia sulla parte superiore che inferiore del pannello, ma anche all'uscita del bordo.

Da utilizzare su pantografi e macchine CNC per materiali come: MDF, truciolare, laminato, nobilitato. Ideale per fresature di preparazione alla bordatura di pannelli in truciolare, (anche per bordatura LASER). Altezza placchette 4,5mm, velocità di avanzamento fino a 15/20 mt/min con mandrino a calettamento termico o Hydro, ottima asportazione di truciolo, eccellente finitura. Gambo in tolleranza h6. Equilibrata. Riaffilabile 7-8 volte con affilatura standard.

PCD cutter with positive and negative axial angle, cutting edge inclination 54 ° for a perfect finishing both on the top and bottom of the panel, but also at the exit. To be used on CNC machines for materials such as: MDF, chipboard, laminate, melamine. Ideal for milling of borders of chipboard panels, (also for LASER borders). PCD H4.5mm, feed speed up to 15/20 m / min with shrink fit or Hydro holders, excellent chip removal, excellent finishing. Shank tolerance h6. Balanced. Possibility to resharping up to 7-8 times.

T3-283

Fresa per pantografo in diamante policristallino in elica Z3 ULTRA
PCD Cutter - helix Z3 ULTRA



Ø D mm	Lu mm	Lt mm	Ø attacco mm	n.denti	ELICA	Codice ordine
20 dx	25	85	20x50	10+1	20°	T32832025101R
20 dx	35	95	20x50	16+1	20°	T32832035161R
20 dx	45	105	20x50	22+1	20°	T32832045221R
25 dx	30	95	25x55	13+1	20°	T32832530131R
25 dx	50	115	25x55	25+1	20°	T32832550251R

Fresa in diamante policristallino con 3 taglienti in elica (positivi e negativi) per buona finitura sia sulla parte superiore che quella inferiore del pannello. Ideale per lavorazioni su: MDF, truciolare, laminato, nobilitati e massello. Costruita con acciaio selezionato, placchette altezza 4.5, forante in DIA ed equilibrata. Elica 20°.

Velocità di avanzamento fino a 6 mt/min. Gambo in tolleranza h6. Riaffilabile circa 8 volte con affilatura standard.

PCD cutter with 3 helical cutting edges (positive and negative) for a good finishing on both the upper and lower part of the panel. Ideal for processing on: MDF, chipboard, laminate, melamine and solid wood. Made with selected steel, PCD H4.5mm, PCD-head drilling and balanced. Helix 20°. Feed speed up to 6 mt / min. Shank tolerance h6. Possibility of resharpening up to 8 times.



U4-283



Fresa per pantografo in diamante policristallino Z2+2 (POS.+NEG.) ULTRA
PCD Cutter Z2+2 (POS.+NEG.) ULTRA

Ø D mm	Lu mm	LT mm	Ø attacco mm	n.denti	Codice ordine
25 dx	35	100	25x55	10+2+1	U4283253510R
25 dx	52	115	25x55	16+2+1	U4283255216R

Fresa in diamante policristallino tipo ultra a 2 taglienti in presa (Z2+2) con angolo positivo e negativo per buona finitura sia sulla parte superiore che inferiore del pannello, da utilizzare con: MDF, truciolare, laminato o nobilitato. Costruita con acciaio selezionato, placchette in diamante altezza 4.5mm, foratore in HM ed equilibrata. Velocità di avanzamento fino a 15mt/min.

Gambo in tolleranza h6. Riaffilabile 4-5 volte con affilatura standard.

PCD cutter type "ULTRA" with 2 cutting edges (Z2+2) with positive and negative angle for a good finishing both on the upper and lower part of the panel, to be used with: MDF, chipboard, laminate or melamine. Made with selected steel, PCD H4.5mm, HM head drilling and balanced. Feed speed up to 15mt / min. Shank tolerance h6. Possibility of resharpening up to 4-5 times.

U2-283



Fresa per pantografo in diamante policristallino Z1+1 (POS.+NEG.) ULTRA
PCD Cutter Z1 + 1 (POS. + NEG.) ULTRA

Ø D mm	Lu mm	Lt mm	Ø attacco mm	n.denti	Codice ordine
10 dx	25	75	12	4	U228310254R
10 dx	35	85	12	5	U228310355R
12 dx	34	85	12	5	U228312345R
12 dx	42	90	12	6	U228312426R

Fresa in diamante policristallino a un tagliente in presa (Z1+1) con angolo positivo e negativo per buona finitura sia sulla parte superiore che inferiore del pannello, da utilizzare con: MDF, truciolare, laminato o nobilitato. Costruita con acciaio speciale antivibrazione, placchette in diamante altezza 2,5mm, foratore in DIA ed equilibrata. Velocità di avanzamento fino a 8mt/min. Riaffilabile 4-5 volte con affilatura standard.

PCD cutter ULTRA, with one cutting edge (Z1 + 1) with positive and negative angle for a good finishing both on the top and bottom of the panel, to be used with: MDF, chipboard, laminate or melamine. Made with special anti-vibration steel, PCD H2.5mm, PCD head drilling and balanced. Feed speed up to 8mt / min. Possibility of resharpening up to 4-5 times.

283/1

Punte per cerniere Z=2+2 in diamante policristallino. Rotazione Dx e SX
PCD boring bits for hinges Z2+2. RH and LH rotation



Ø D mm	LT mm	Ø attacco mm	Codice ordine
25 dx	70	10	02830025070
25 sx	70	10	02831025070
35 dx	70	10	02830035070
35 sx	70	10	02831035070



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