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IDENTIFICATION OF TURNING TOOLS FOR EXTERNAL PROCESSING

S	T	G	C	R	16
1	2	3	4	5	6

1 - Locking method

LEVER SCREW

2 - Insert shape

90°
S

60°
T

35°
V

80°
W

55°
D

80°
C

55°
K

3 - Type of tool

90°
G

95°
L

45°
S

93°
J

4 - Insert clearance angle

5°
B

7°
C

0°
N

5 - Tool direction

R

L

N

6 - Tool shank size

B

IDENTIFICATION OF TURNING TOOLS FOR INTERNAL PROCESSING

S	S	S	C	R	16
1	2	3	4	5	6

1 - Locking method

LEVER SCREW

2 - Insert shape

90°
S

60°
T

55°
D

80°
C

55°
K

3 - Type of tool

95°
L

90°
F

93°
U

45°
S

4 - Insert clearance angle

5°
B

7°
C

0°
N

5 - Tool direction

L

R

6 - Tool shank diameter

H, D

CHOICE OF INSERT SHAPE ACCORDING TO THE TYPE OF PROCESSING TO BE CARRIED OUT

	S	T	C	K	D
External turning					
Axial Turning / Facing	○	○	●	○	○
Profiling	-	○	-	○	●
Facing	●	○	○	○	○
Plunge turning	-	○	-	-	-

	S	T	C	K	D
Internal turning					
Axial Turning / Facing	○	●	○	-	○
Profiling	-	○	-	○	●
Facing	-	○	●	-	○

Key

- Recommended shape
- Possible shape
- Not usable



RECOMMENDED VALUES FOR CUTTING SPEED V_c (m/min) FOR TURNING

Materials to be processed		External turning		Internal turning		Shape tool	Truncation	Threading with tool
		Sgrossatura	Finitura	Sgrossatura	Finitura			
P	Rm Steel < 600 N/mm ²	100*	150*	70*	100*	50*	95*	25*
	Rm steel 600-100 N/mm ²	95*	120*	50*	95*	30*	70*	18*
	Rm steel 1000-1200 N/mm ²	65*	80*	40*	65*	25*	55*	15*
M	Stainless Steel	60*	70*	35*	60*	20*	50*	15*
K	Cast iron HB < 180	90*	100*	65*	90*	30*	80*	15*
	Cast iron HB > 180	60*	70*	40*	60*	20*	55*	12*
N	Brass/Bronze	165*	260*	80*	160*	40*	100*	25*
	Copper	220*	350*	100*	220*	80*	200*	25*
	Aluminium	300*	650*	200*	400*	150*	300*	35*

* Values for brazed tools, for mechanically clamped tools the value can be increased by 15%

RECOMMENDED FEED VALUES (mm/rev) FOR TURNING

MATERIALS TO BE PROCESSED		External turning		Internal turning		Shape tool	Truncation
		Roughing	Finish	Roughing	Finish		
P	Rm Steel < 600 N/mm ²	0.1 – 0.4*	0.05 – 0.2*	0.05 – 0.3*	0.05 – 0.2*	0.02 – 0.05*	0.05 – 0.1*
	Rm steel 600-100 N/mm ²	0.1 – 0.4*	0.05 – 0.15*	0.05 – 0.3*	0.05 – 0.1*	0.02 – 0.05*	0.05 – 0.1*
	Rm steel 1000-1200 N/mm ²	0.1 – 0.4*	0.05 – 0.15*	0.05 – 0.3*	0.05 – 0.1*	0.02 – 0.05*	0.05*
M	Stainless Steel	0.1 – 0.4*	0.05 – 0.15*	0.05 – 0.3*	0.05 – 0.1*	0.02 – 0.05*	0.02 – 0.05*
K	Cast iron HB < 180	0.1 – 0.6*	0.05 – 0.2*	0.05 – 0.6*	0.05 – 0.2*	0.02 – 0.05*	0.05 – 0.1*
	Cast iron HB > 180	0.1 – 0.8*	0.05 – 0.25*	0.05 – 0.5*	0.05 – 0.2*	0.02 – 0.05*	0.02 – 0.05*
N	Brass/Bronze	0.1 – 0.8*	0.05 – 0.25*	0.05 – 0.6*	0.05 – 0.2*	0.02 – 0.1*	0.05 – 0.2*
	Copper	0.1 – 0.6*	0.05 – 0.25*	0.05 – 0.5*	0.05 – 0.25*	0.02 – 0.05*	0.05 – 0.1*
	Aluminium	0.1 – 0.8*	0.05 – 0.25*	0.05 – 0.4*	0.05 – 0.2*	0.02 – 0.2*	0.05 – 0.3*

* Values for brazed tools, for mechanically clamped tools the value can be increased by 15%

THICKNESS OF SURFACE TREATMENT IN THE TURNING (mm)

Thickness of surface treatment		Ø particular					
Roughing	0.5 - 10	Up to 25	25 - 70	50 - 75	75 - 100	100 - 150	150 - 300
Finish	0.2 - 20						
Truncation	Equal to the thickness of the cutter insert						

MAIN TURNING FORMULAS

- $V_t = (n \times \pi \times D) \div 1000$
- $n = (V_t \times 1000) \div (\pi \times D)$
- $V_f = n \times F_z$

Key

V_c : Cutting speed in metres per minute. It is the peripheral speed with which the cutting edge removes material. (m/min)

n : Spindle rotation speed in revolutions per minute (rpm)

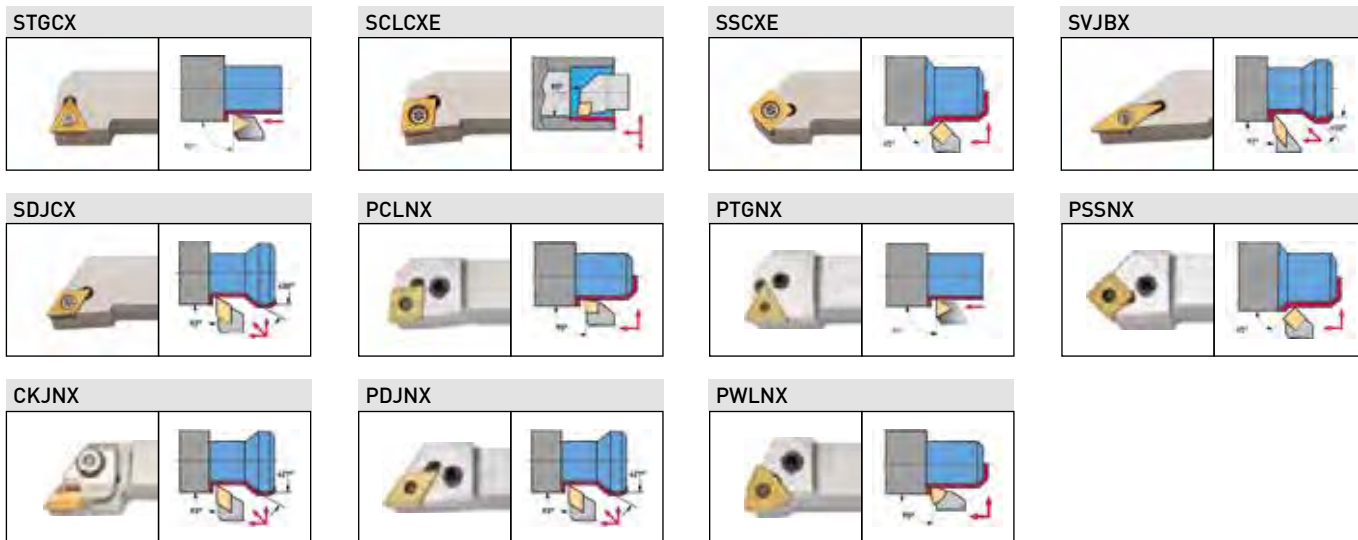
D : Workpiece diameter in millimetres (mm)

F_z : Tool feed (per tooth) per revolution in millimetres (mm/revolution)

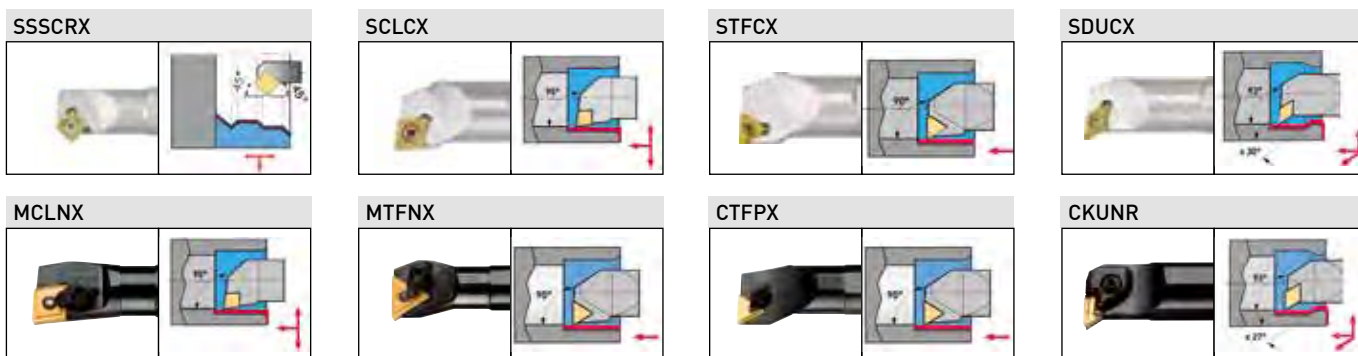
V_f : Tool feed speed in millimetres per minute (mm/min)

π : its value is 3.14

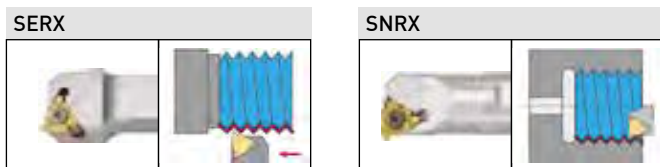
TPOLOGY OF TOOLS FOR EXTERNAL TURNING



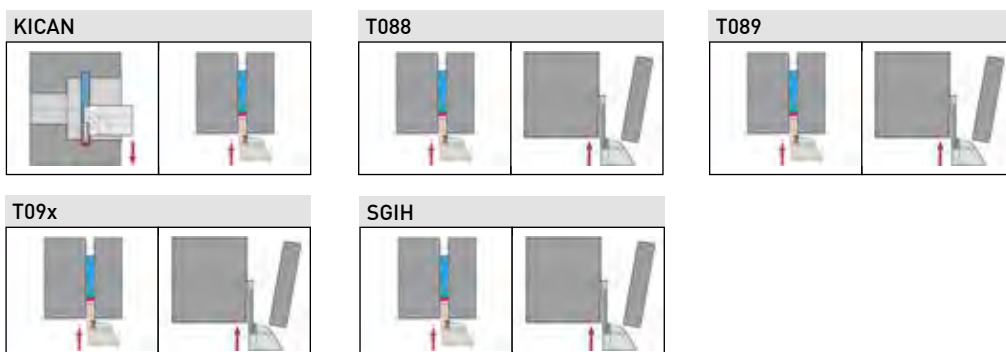
TPOLOGY OF TOOLS FOR INTERNAL TURNING



TPOLOGY OF THREADING TOOLS



TPOLOGY OF TOOLS FOR GROOVING AND PARTING OFF

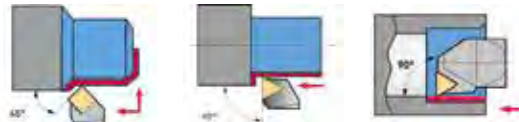




B007-

INDEXABLE CARBIDE TOOL HOLDER SET

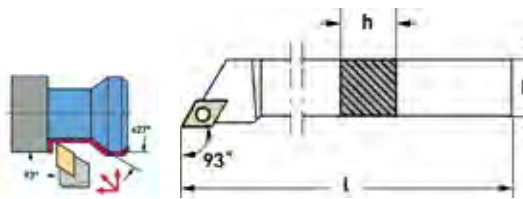
Insert included, useful for having a set that allows you to perform most turning operations with small lathes



Art.	€	Ext. shank / Insert	Int. shank / Insert	Screw
B007/10	€ 108,00	10 mm / TCMT110204N	8 mm / TCMT090204N	KV200
B007/12	€ 114,00	12 mm / TCMT110204N	10 mm / TCMT110204N	KV250
B007/16	€ 141,00	16 mm / TCMT16T304N	12 mm / TCMT110204N	KV250

KITCKJ

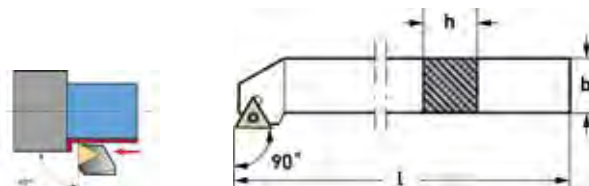
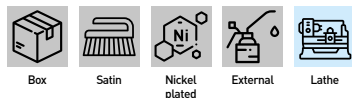
EXTERNAL TOOL HOLDER WITH INSERTS



Art.	€	Ext. tool holder	Bits	b	h	l
KITCKJ20	€ 170,00	CKJNR20	KNUX160405RN x 10 Pcs	20mm	20mm	125mm
KITCKJ25	€ 172,00	CKJNR25	KNUX160405RN x 10 Pcs	25mm	25mm	150mm

STGCX

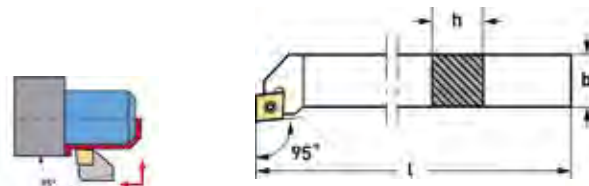
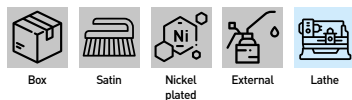
90° EXTERNAL TOOL HOLDER



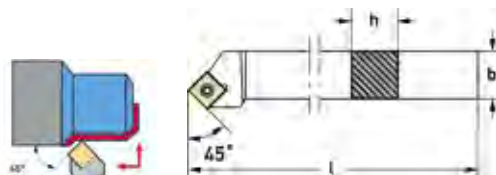
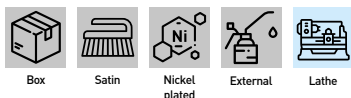
Art.	€	Side	b	h	l	Screw	Bushing	Base	Insert (not included)
STGCR16/11	€ 43,80	Dx/R	16 mm	16 mm	100 mm	KV250	-----	-----	TCMT1102...
STGCL16/11	€ 43,80	Sx/L	16 mm	16 mm	100 mm	KV250	-----	-----	TCMT1102...
STGCR20	€ 49,50	Dx/R	20 mm	20 mm	125 mm	KV350	BU3550	BSTG16	TCMT16T3...
STGCL20	€ 49,50	Sx/L	20 mm	20 mm	125 mm	KV350	BU3550	BSTG16	TCMT16T3...
STGCR25	€ 60,80	Dx/R	25 mm	25 mm	150 mm	KV350	BU3550	BSTG16	TCMT16T3...
STGCL25	€ 60,80	Sx/L	25 mm	25 mm	150 mm	KV350	BU3550	BSTG16	TCMT16T3...

SCLCXE

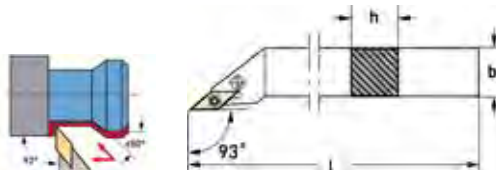
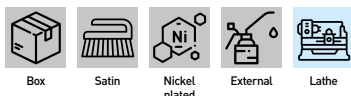
95° EXTERNAL TOOL HOLDER



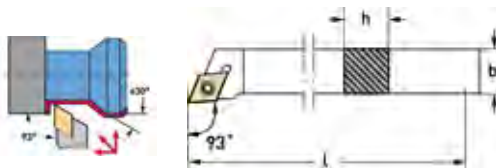
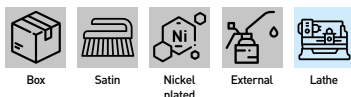
Art.	€	Side	b	h	l	Screw	Bushing	Base	Insert (not included)
SCLCR12E	€ 37,50	Dx/R	12 mm	12 mm	80 mm	KV350	-----	-----	CCMT09T3...
SCLCL12E	€ 37,50	Sx/L	12 mm	12 mm	80 mm	KV350	-----	-----	CCMT09T3...
SCLCR16E	€ 45,30	Dx/R	16 mm	16 mm	100 mm	KV350	BU3550	BSCL09	CCMT09T3...
SCLCL16E	€ 45,30	Sx/L	16 mm	16 mm	100 mm	KV350	BU3550	BSCL09	CCMT09T3...
SCLCR20E	€ 50,70	Dx/R	20 mm	20 mm	125 mm	KV450	BU4560	BSCL12	CCMT1204...
SCLCL20E	€ 50,70	Sx/L	20 mm	20 mm	125 mm	KV450	BU4560	BSCL12	CCMT1204...
SCLCR25E	€ 60,80	Dx/R	25 mm	25 mm	150 mm	KV450	BU4560	BSCL12	CCMT1204...
SCLCL25E	€ 60,80	Sx/L	25 mm	25 mm	150 mm	KV450	BU4560	BSCL12	CCMT1204...

SSSCXE
45° EXTERNAL TOOL HOLDER


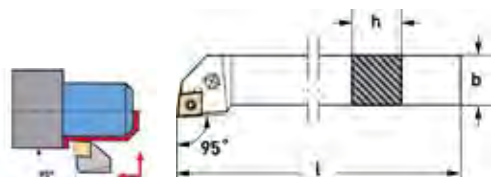
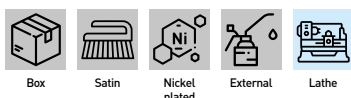
Art.	€	Side	b	h	l	Screw	Bushing	Base	Insert (not included)
SSSCR20E	€ 49,50	Dx/R	20 mm	20 mm	125 mm	KV400	BU4560	BSSS12	SCMT1204...
SSSCL20E	€ 49,50	Sx/L	20 mm	20 mm	125 mm	KV400	BU4560	BSSS12	SCMT1204...
SSSCR25E	€ 63,80	Dx/R	25 mm	25 mm	150 mm	KV450	BU4560	BSSS12	SCMT1204...
SSSCL25E	€ 63,80	Sx/L	25 mm	25 mm	150 mm	KV450	BU4560	BSSS12	SCMT1204...

SVJBX
93° EXTERNAL TOOL HOLDER


Art.	€	Side	b	h	l	Screw	Bushing	Base	Insert (not included)
SVJBR20	€ 49,50	Dx/R	20 mm	20 mm	125 mm	KV350	BU3550	BSVJ16	VBMT1604...
SVJBL20	€ 49,50	Sx/L	20 mm	20 mm	125 mm	KV350	BU3550	BSVJ16	VBMT1604...
SVJBR25	€ 63,80	Dx/R	25 mm	25 mm	150 mm	KV350	BU3550	BSVJ16	VBMT1604...
SVJBL25	€ 63,80	Sx/L	25 mm	25 mm	150 mm	KV350	BU3550	BSVJ16	VBMT1604...

SDJCX
93° EXTERNAL TOOL HOLDER


Art.	€	Side	b	h	l	Screw	Bushing	Base	Insert (not included)
SDJCR10	€ 28,50	Dx/R	10 mm	10 mm	70 mm	KV250	-----	-----	DCMT0702...
SDJCR12	€ 41,00	Dx/R	12 mm	12 mm	80 mm	KV250	-----	-----	DCMT0702...
SDJCR16	€ 47,20	Dx/R	16 mm	16 mm	100 mm	KV250	-----	-----	DCMT0702...
SDJCR20	€ 53,40	Dx/R	20 mm	20 mm	125 mm	KV350	BU3550	BSDJ11	DCMT11T3...
SDJCL20	€ 53,40	Sx/L	20 mm	20 mm	125 mm	KV350	BU3550	BSDJ11	DCMT11T3...
SDJCR25	€ 67,70	Dx/R	25 mm	25 mm	150 mm	KV350	BU3550	BSDJ11	DCMT11T3...
SDJCL25	€ 67,70	Sx/L	25 mm	25 mm	150 mm	KV350	BU3550	BSDJ11	DCMT11T3...

PCLNX
95° EXTERNAL TOOL HOLDER


Art.	€	Side	b	h	l	Spare parts	Insert (not included)
PCLNR16	€ 41,10	Dx/R	16 mm	16 mm	100 mm	RICAPCLN	CNMG1204...
PCLNR20	€ 53,80	Dx/R	20 mm	20 mm	125 mm	RICAPCLN	CNMG1204...
PCLNL20	€ 53,80	Sx/L	20 mm	20 mm	125 mm	RICAPCLN	CNMG1204...
PCLNR25	€ 63,80	Dx/R	25 mm	25 mm	150 mm	RICAPCLN	CNMG1204...
PCLNL25	€ 63,80	Sx/L	25 mm	25 mm	150 mm	RICAPCLN	CNMG1204...



PTGNX

90° EXTERNAL TOOL HOLDER

Box

Satin

Nickel plated

External

Lathe

Art.	€	Side	b	l	h	Spare parts	Insert (not included)
PTGNR16	€ 41,10	Dx/R	16 mm	16 mm	100 mm	RICAPTGN	TNMG1604...
PTGNR20	€ 50,20	Dx/R	20 mm	20 mm	125 mm	RICAPTGN	TNMG1604...
PTGNL20	€ 50,20	Sx/L	20 mm	20 mm	125 mm	RICAPTGN	TNMG1604...
PTGNR25	€ 63,80	Dx/R	25 mm	25 mm	150 mm	RICAPTGN	TNMG1604...
PTGNL25	€ 63,80	Sx/L	25 mm	25 mm	150 mm	RICAPTGN	TNMG1604...

PSSNX

45° EXTERNAL TOOL HOLDER

Art.	€	Side	b	h	l	Spare parts	Insert (not included)
PSSNR16	€ 41,10	Dx/R	16 mm	16 mm	100 mm	RICAPSSN	SNMG1204...
PSSNR20	€ 50,70	Dx/R	20 mm	20 mm	125 mm	RICAPSSN	SNMG1204...
PSSNL20	€ 50,70	Sx/L	20 mm	20 mm	125 mm	RICAPSSN	SNMG1204...
PSSNR25	€ 63,80	Dx/R	25 mm	25 mm	150 mm	RICAPSSN	SNMG1204...
PSSNL25	€ 63,80	Sx/L	25 mm	25 mm	150 mm	RICAPSSN	SNMG1204...

CKJNX

93° EXTERNAL TOOL HOLDER

Box

Satin

Nickel plated

External

Lathe

Art.	€	Side	b	h	l	Bracket	Screw	Base	Insert (not included)
CKJNL20	€ 60,80	Sx/L	20 mm	20 mm	125 mm	STAFCKJNL	VITECKJN	BASECKJNL	KNUX160405L...
CKJNL25	€ 70,60	Sx/L	25 mm	25 mm	150 mm	STAFCKJNL	VITECKJN	BASECKJNL	KNUX160405L...
CKJNR16	€ 50,20	Dx/R	20 mm	16 mm	100 mm	STAFCKJNR	VITECKJN	BASECKJNR	KNUX160405R...
CKJNR20	€ 60,80	Dx/R	20 mm	20 mm	125 mm	STAFCKJNR	VITECKJN	BASECKJNR	KNUX160405R...
CKJNR25	€ 70,60	Dx/R	25 mm	25 mm	150 mm	STAFCKJNR	VITECKJN	BASECKJNR	KNUX160405R...

PDJNX

93° EXTERNAL TOOL HOLDER

Art.	€	Side	b	l	h	Spare parts	Insert (not included)
PDJNR20	€ 52,00	Dx/R	20 mm	20 mm	125 mm	PDJNRKIT	DNMG1506...
PDJNR25	€ 63,80	Dx/R	25 mm	25 mm	150 mm	PDJNRKIT	DNMG1506...
PDJNL25	€ 63,80	Sx/L	25 mm	25 mm	150 mm	PDJNRKIT	DNMG1506...

PWLNK
95° EXTERNAL TOOL HOLDER

Art.	€	Side	b	h	l	Spare parts	Insert (not included)
PWLNK20	€ 52,00	Dx/R	20 mm	20 mm	125 mm	PWLNKKIT	WNMG0804...
PWLNK25	€ 63,80	Dx/R	25 mm	25 mm	150 mm	PWLNKKIT	WNMG0804...
PWLNK25	€ 63,80	Sx/L	25 mm	25 mm	150 mm	PWLNKKIT	WNMG0804...

G007-
KNURLING TOOL WITH 3 PAIRS OF KNURLING WHEELS, WITH DIAMOND PATTERN

Diamond-shaped 45° for the execution of knurling for deformation in turning. Equipped with 2 spare wheels 0.8mm pitch

Art.	€	Spindle	Pitch
G007/16	€ 73,00	16 mm	0,8 - 1,2 - 1,8 mm
G007/20	€ 74,10	20 mm	0,8 - 1,2 - 1,8 mm

KISCLCR
€ 227,00
SOLID BORING BAR SET 95°

Int. tool holder	SCLCR08; SCLCR10; SCLCR12; SCLCR16
Bits	CCMT060204N x 10 Pcs
Torx key	T7 x 2 Pcs
Screw	T7 x 2,5 mm x 4 Pcs

KISTCMT
€ 268,00
SOLID BORING BAR SET 90°

Int. tool holder	STFCR08; STFCR10; STFCR12; STFCR16; STFCR20
Bits	TCMT110204N x 10 Pcs
Torx key	T8 x 2 Pcs
Screw	T8 x 2,5 mm x 2 Pcs



KISTFCR

€ 211,00

SOLID BORING BAR SET 90°

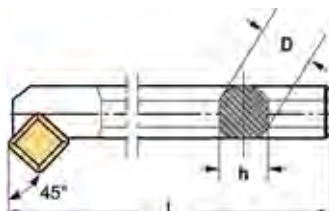
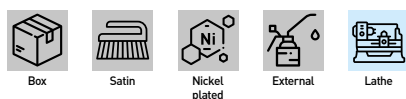
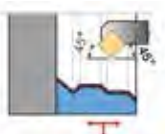


Int. tool holder	STFCR08, STFCR10, STFCR12, STFCR16, STFCR20
Insert (not included)	TCMT110204...
Torx key	T8 x 2 Pcs
Screw	T8 x 2,5 mm x 5 Pcs



SSSCRX

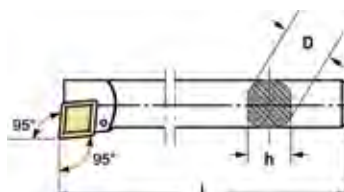
45° INTERNAL TOOL HOLDER



Art.	€	D	h	l	Screw	Insert (not included)
SSSCR16	€ 48,70	16 mm	15 mm	200 mm	KV400	SCMT09T3...
SSSCR20	€ 54,20	20 mm	18 mm	250 mm	KV400	SCMT09T3...
SSSCR25	€ 63,80	25 mm	22.5 mm	300 mm	KV400	SCMT09T3...

SCLCX

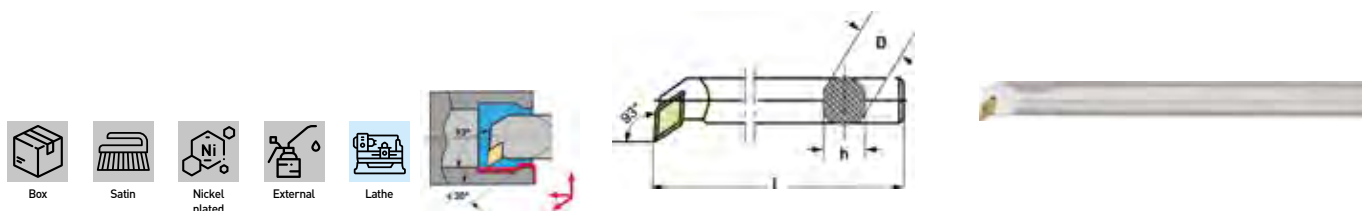
95° SOLID BORING BAR



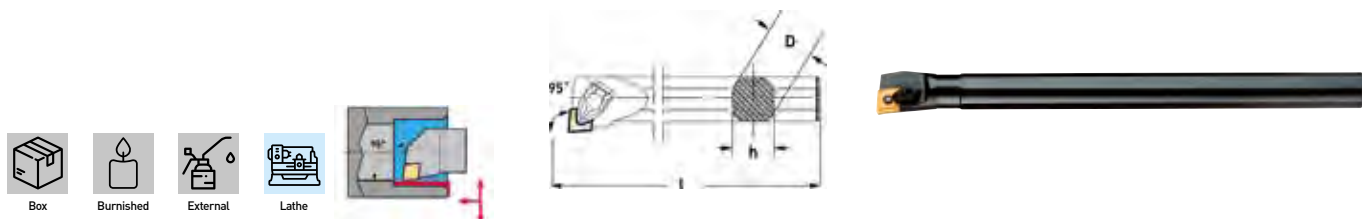
Art.	€	Side	D	h	l	Screw	Insert (not included)
SCLCR08	€ 57,70	Dx/R	8 mm	7 mm	125 mm	KV250	CCMT0602...
SCLCL08	€ 57,70	Sx/L	8 mm	7 mm	125 mm	KV250	CCMT0602...
SCLCR10	€ 57,70	Dx/R	10 mm	9 mm	140 mm	KV250	CCMT0602...
SCLCL10	€ 57,70	Sx/L	10 mm	9 mm	140 mm	KV250	CCMT0602...
SCLCR12	€ 57,70	Dx/R	12 mm	11 mm	160 mm	KV250	CCMT0602...
SCLCL12	€ 57,70	Sx/L	12 mm	11 mm	160 mm	KV250	CCMT0602...
SCLCR16	€ 65,40	Dx/R	16 mm	14,5 mm	180 mm	KV400	CCMT09T3...
SCLCL16	€ 65,40	Sx/L	16 mm	14,5 mm	180 mm	KV400	CCMT09T3...
SCLCR20	€ 65,40	Dx/R	20 mm	18 mm	200 mm	KV400	CCMT09T3...
SCLCL20	€ 65,40	Sx/L	20 mm	18 mm	200 mm	KV400	CCMT09T3...
SCLCR25	€ 73,00	Dx/R	25 mm	22,5 mm	250 mm	KV400	CCMT09T3...
SCLCL25	€ 73,00	Sx/L	25 mm	22,5 mm	250 mm	KV400	CCMT09T3...
SCLCR32	€ 103,00	Dx/R	32 mm	29 mm	300 mm	KV400	CCMT09T3...
SCLCL32	€ 103,00	Sx/L	32 mm	29 mm	300 mm	KV400	CCMT09T3...

STFCX
90° SOLID BORING BAR


Art.	€	Side	D	h	l	Screw	Insert (not included)
STFCR08	€ 57,70	Dx/R	8 mm	7 mm	125 mm	KV250	TCMT1102...
STFCL08	€ 57,70	Sx/L	8 mm	7 mm	125 mm	KV250	TCMT1102...
STFCR10	€ 57,70	Dx/R	10 mm	9 mm	150 mm	KV250	TCMT1102...
STFCL10	€ 57,70	Sx/L	10 mm	9 mm	150 mm	KV250	TCMT1102...
STFCR12	€ 57,70	Dx/R	12 mm	11 mm	150 mm	KV250	TCMT1102...
STFCL12	€ 57,70	Sx/L	12 mm	11 mm	150 mm	KV250	TCMT1102...
STFCR16	€ 65,40	Dx/R	16 mm	14,5 mm	200 mm	KV250	TCMT1102...
STFCL16	€ 65,40	Sx/L	16 mm	14,5 mm	200 mm	KV250	TCMT1102...
STFCR20	€ 65,40	Dx/R	20 mm	18,5 mm	250 mm	KV250	TCMT1102...
STFCL20	€ 65,40	Sx/L	20 mm	18,5 mm	250 mm	KV250	TCMT1102...
STFCR25	€ 73,00	Dx/R	25 mm	22,5 mm	250 mm	KV350	TCMT16T3...
STFCL25	€ 73,00	Sx/L	25 mm	22,5 mm	250 mm	KV350	TCMT16T3...
STFCR32	€ 103,00	Dx/R	32 mm	29 mm	300 mm	KV350	TCMT16T3...
STFCL32	€ 103,00	Sx/L	32 mm	29 mm	300 mm	KV350	TCMT16T3...

SDUCX
93° SOLID BORING BAR


Art.	€	Side	D	h	l	Screw	Insert (not included)
SDUCR10	€ 57,70	Dx/R	10 mm	9 mm	140 mm	KV250	DCMT0702...
SDUCL10	€ 57,70	Sx/L	10 mm	9 mm	140 mm	KV250	DCMT0702...
SDUCR12	€ 57,70	Dx/R	12 mm	11 mm	160 mm	KV250	DCMT0702...
SDUCL12	€ 57,70	Sx/L	12 mm	11 mm	160 mm	KV250	DCMT0702...
SDUCR16	€ 65,40	Dx/R	16 mm	15 mm	180 mm	KV250	DCMT0702...
SDUCL16	€ 65,40	Sx/L	16 mm	15 mm	180 mm	KV250	DCMT0702...
SDUCR20	€ 65,40	Dx/R	20 mm	18 mm	200 mm	KV350	DCMT11T3...
SDUCL20	€ 65,40	Sx/L	20 mm	18 mm	200 mm	KV350	DCMT11T3...
SDUCR25	€ 73,00	Dx/R	25 mm	23 mm	250 mm	KV350	DCMT11T3...
SDUCL25	€ 73,00	Sx/L	25 mm	23 mm	250 mm	KV350	DCMT11T3...
SDUCR32	€ 103,00	Dx/R	32 mm	30 mm	300 mm	KV350	DCMT11T3...
SDUCL32	€ 103,00	Sx/L	32 mm	30 mm	300 mm	KV350	DCMT11T3...

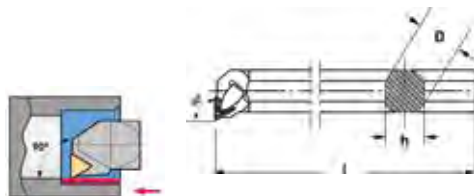
MCLNX
95° SOLID BORING BAR


Art.	€	Side	D	h	l	Bracket	Base	Insert (not included)
MCLNR16	€ 75,10	Dx/R	16 mm	15 mm	210 mm	CTMTMC16/20	-----	CNMG1204...
MCLNL16	€ 75,10	Sx/L	16 mm	15 mm	210 mm	CTMTMC16/20	-----	CNMG1204...
MCLNR20	€ 82,80	Dx/R	20 mm	18 mm	255 mm	CTMTMC16/20	-----	CNMG1204...
MCLNL20	€ 82,80	Sx/L	20 mm	18 mm	255 mm	CTMTMC16/20	-----	CNMG1204...
MCLNR25	€ 105,00	Dx/R	25 mm	23 mm	300 mm	CTMTMC25/32	MCLNBASE25/32	CNMG1204...
MCLNL25	€ 105,00	Sx/L	25 mm	23 mm	300 mm	CTMTMC25/32	MCLNBASE25/32	CNMG1204...
MCLNR32	€ 128,00	Dx/R	32 mm	30 mm	355 mm	CTMTMC25/32	MCLNBASE25/32	CNMG1204...
MCLNL32	€ 128,00	Sx/L	32 mm	30 mm	355 mm	CTMTMC25/32	MCLNBASE25/32	CNMG1204...



MTFNX

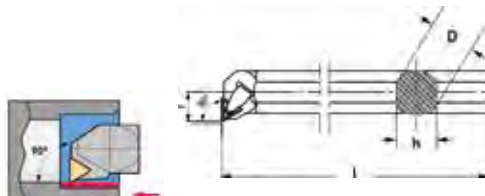
90° SOLID BORING BAR



Art.	€	Side	D	h	l	Bracket	Base	Insert (not included)
MTFNR16	€ 74,10	Dx/R	16 mm	15 mm	210 mm	CTMTMC16/20	-----	TNMG1604...
MTFNL16	€ 74,10	Sx/L	16 mm	15 mm	210 mm	CTMTMC16/20	-----	TNMG1604...
MTFNR20	€ 82,80	Dx/R	20 mm	18 mm	255 mm	CTMTMC16/20	-----	TNMG1604...
MTFNL20	€ 82,80	Sx/L	20 mm	18 mm	255 mm	CTMTMC16/20	-----	TNMG1604...
MTFNR25	€ 105,00	Dx/R	25 mm	23 mm	300 mm	CTMTMC25/32	MTFNBASE25/32	TNMG1604...
MTFNL25	€ 105,00	Sx/L	25 mm	23 mm	300 mm	CTMTMC25/32	MTFNBASE25/32	TNMG1604...
MTFNR32	€ 128,00	Dx/R	32 mm	30 mm	355 mm	CTMTMC25/32	MTFNBASE25/32	TNMG1604...
MTFNL32	€ 128,00	Sx/L	32 mm	30 mm	355 mm	CTMTMC25/32	MTFNBASE25/32	TNMG1604...

CTFPX

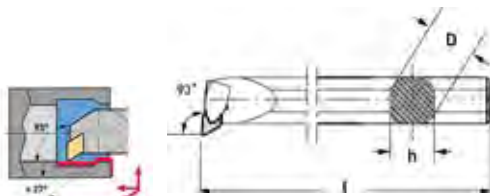
90° SOLID BORING BAR



Art.	€	Side	D	h	l	Bracket	Base	Insert (not included)
CTFPR10	€ 63,20	Dx/R	10 mm	9 mm	150 mm	CTFP10/12	-----	TPMR0902...
CTFPL10	€ 63,20	Sx/L	10 mm	9 mm	150 mm	CTFP10/12	-----	TPMR0902...
CTFPR12	€ 63,20	Dx/R	12 mm	11 mm	150 mm	CTFP10/12	-----	TPMR1103...
CTFPL12	€ 63,20	Sx/L	12 mm	11 mm	150 mm	CTFP10/12	-----	TPMR1103...
CTFPR16	€ 73,00	Dx/R	16 mm	15 mm	210 mm	CTMTMC16/20	-----	TPMR1103...
CTFPL16	€ 73,00	Sx/L	16 mm	15 mm	210 mm	CTMTMC16/20	-----	TPMR1103...
CTFPR20	€ 82,80	Dx/R	20 mm	18 mm	255 mm	CTMTMC16/20	-----	TPMR1603...
CTFPL20	€ 82,80	Sx/L	20 mm	18 mm	255 mm	CTMTMC16/20	-----	TPMR1603...
CTFPR25	€ 102,00	Dx/R	25 mm	23 mm	300 mm	CTMTMC25/32	CTFPBASE25/32	TPMR1603...
CTFPL25	€ 102,00	Sx/L	25 mm	23 mm	300 mm	CTMTMC25/32	CTFPBASE25/32	TPMR1603...
CTFPR32	€ 128,00	Dx/R	32 mm	30 mm	355 mm	CTMTMC25/32	CTFPBASE25/32	TPMR1603...
CTFPL32	€ 128,00	Sx/L	32 mm	30 mm	355 mm	CTMTMC25/32	CTFPBASE25/32	TPMR1603...

CKUNR

93° SOLID BORING BAR

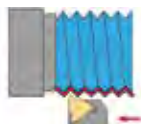


Art.	€	Side	D	h	l	Bracket	Screw	Base	Insert (not included)
CKUNR25	€ 167,00	Dx/R	25 mm	23 mm	300 mm	STAFCKJNR	VITECKJN	BASECKJNR	KNUX1604...
CKUNR32	€ 190,00	Dx/R	32 mm	30 mm	350 mm	STAFCKJNR	VITECKJN	BASECKJNR	KNUX1604...
CKUNR40	€ 200,00	Dx/R	40 mm	37 mm	400 mm	STAFCKJNR	VITECKJN	BASECKJNR	KNUX1604...

KISER

EXTERNAL THREAD TOOL HOLDER

Consisting of external threading tool (1 Pc), M3.5 X 12mm spare screw (1 Pc), 2.5mm hex wrench (1 Pc), T15 torx wrench (1 Pc) and assorted inserts: AG55 - AG60; - ISO 0.8 - 1.00 - 1.25 - 1.50 - 1.75 - 2.00 - 2.50 - 3.00mm (1 Pc each).

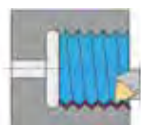


Art.	€	Ext. tool holder	Insert	Torx key	Screw	b	l	h
KISER	€ 179,00	SER20	16ER...	T15	M3,5 x 12 mm	20 mm	20 mm	125 mm
KISER25	€ 235,00	SER25	16ER...	T15	M3,5 x 12 mm	25 mm	25 mm	150 mm

KISNR

INTERNAL THREAD TOOL HOLDER

Consisting of internal threading tool (1 Pc), spare M3.5 X 12mm screw (1 Pc), 2.5mm hex wrench (1 Pc), T15 torx wrench (1 Pc) and assorted inserts: AG55 - AG60; - ISO 0.8 - 1.00 - 1.25 - 1.50 - 1.75 - 2.00 - 2.50 - 3.00mm (1 Pc each).



Art.	€	Int. tool holder	Insert	Torx key	Screw	D	h	l
KISNR	€ 206,00	SNR20	16IR...	T15	M3.5 x 12 mm	20 mm	18 mm	170 mm
KISNR25	€ 246,00	SNR25	16IR...	T15	M3.5 x 12 mm	25 mm	23 mm	200 mm

KICAN

€ 230,00

INTERNAL AND EXTERNAL GROOVING TOOL HOLDER SET

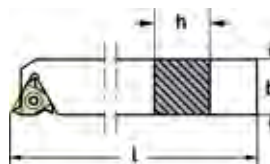
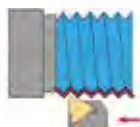
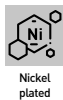
Consisting of the tool for external grooves: 20 x 20 mm (1 Pc), the tool for internal grooves: ø 20mm (1 Pc), spare screw M4 x 12mm (2 Pcs), torx wrench: T15 (1 Pc) and inserts for 16mm groove TIN coated: 165110134 (2 Pcs), 165130134 (2 Pcs), 165160134 (2 Pcs), 165185134 (1 Pc), 165215134 (1 Pc), 165265134 (1 Pc), 165315134 (1 Pc).





SERX

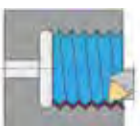
EXTERNAL THREAD TOOL HOLDER



Art.	€	b	h	l	Base	Bushing	Screw	Insert (not included)
SER16	€ 54,80	16 mm	16 mm	100 mm	-----	-----	KV350	16ER..
SER20	€ 70,40	20 mm	20 mm	125 mm	BSER16	BU3550	KV350	16ER...
SER25	€ 81,30	25 mm	25 mm	150 mm	BSER16	BU3550	KV350	16ER...

SNRX

INTERNAL THREAD TOOL HOLDER

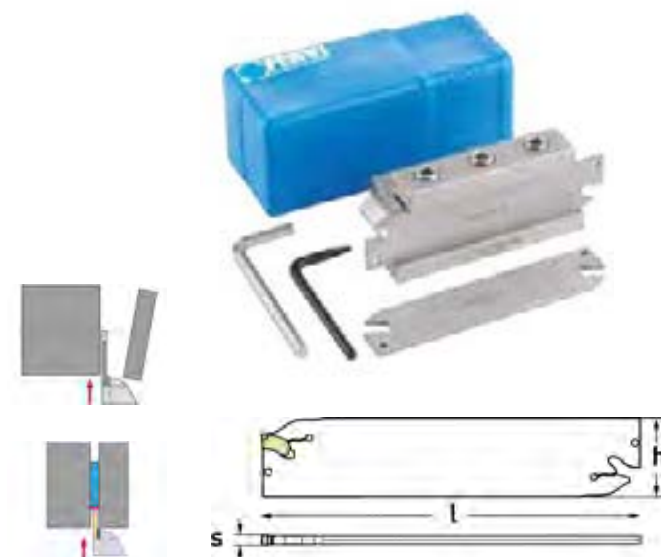


Art.	€	D	h	l	Base	Screw	Bushing	Insert (not included)
SNR12	€ 54,80	12 mm	11 mm	150 mm	-----	KV250	-----	11IR...
SNR16	€ 63,90	16 mm	15 mm	170 mm	-----	KV350	-----	16IR...
SNR20	€ 77,40	20 mm	18 mm	200 mm	BSNR16	KV350	BU3550	16IR...
SNR25	€ 95,90	25 mm	23 mm	300 mm	BSNR16	KV350	BU3550	16IR...

T088

€ 99,00

TOOL CUTTING SET

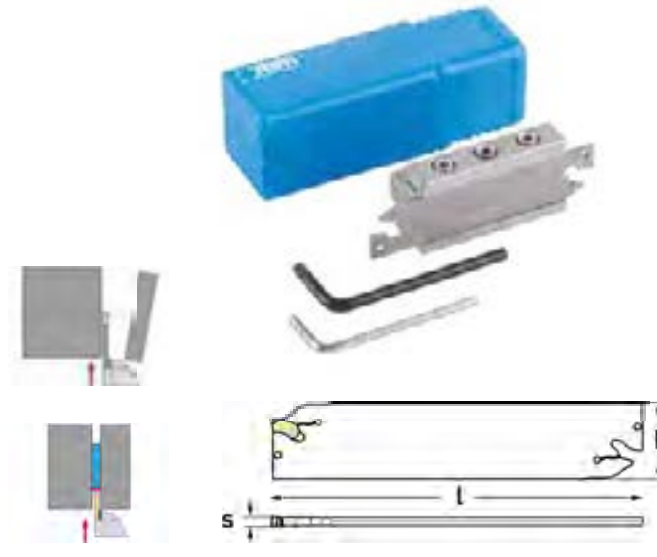


Set composition	1 Pcs SGTBK16 - 1 Pcs SGIH26/2 - 1 Pcs SGIH26/3
S	2 - 3 mm
h	25.75 mm
l	109 mm
Insert (not included)	GCMX2N - GCMX3N

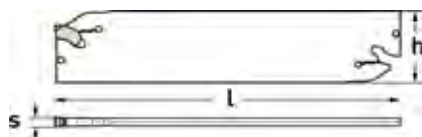
T089

€ 69,30

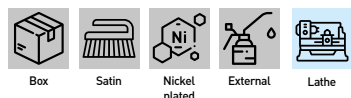
TOOL CUTTING SET



Set composition	1 Pcs SGIH19/2 - 1 Pcs SGTBK10
S	2 mm
h	19.5 mm
l	85 mm
Insert (not included)	GCMX2N

T09X
TOOL CUTTING SET


Art.	€	Set composition	S	h	l	Insert (not included)
T090	€ 163,00	1 Pcs SGIH32/3 - 1 Pcs SGIH32/4 - 1 Pcs SGIH32/5 - 1 Pcs SGTBK25	3 - 4 - 5 mm	31,75 mm	150 - 160 mm	GCMX3N - GCMX4N - GCMX5N
T091	€ 119,00	1 Pcs SGIH26/2 - 1 Pcs SGIH26/3 - 1 Pcs SGTBK20	2 - 3 mm	25,75 mm	109 mm	GCMX2N - GCMX3N


SGIH
TOOL FOR EXTERNAL CUTTING - BLADE


Art.	€	S	h	l	Insert (not included)
SGIH26/2	€ 33,00	2 mm	25.75 mm	109 mm	GCMX2N...
SGIH26/3	€ 33,00	3 mm	25.75 mm	109 mm	GCMX3N...
SGIH32/3	€ 33,00	3 mm	31.75 mm	150 mm	GCMX3N...
SGIH32/4	€ 33,00	4 mm	31 mm	150 mm	GCMX4N...
SGIH32/5	€ 33,00	5 mm	31.75 mm	150 mm	GCMX5N...
SGIH19/2	€ 26,50	2 mm	19.5 mm	85 mm	GCMX2N...


SGTBK
TOOL FOR EXTERNAL CUTTING - BLADE TOOL HOLDER


Art.	€	Spindle	Dimensions	Blade
SGTBK10	€ 43,80	10 x 10 mm	56 x 25 x 30 mm	19 mm
SGTBK16	€ 47,50	16 x 16 mm	87 x 38 x 33 mm	26 mm
SGTBK20	€ 52,30	20 x 20 mm	100 x 38 x 45h mm	26 mm
SGTBK25	€ 65,30	25 x 25 mm	110 x 49 x 48h mm	32 mm





MAIN TYPES OF MILLING

Shoulder milling


Milling that generates 2 faces at the same time obtaining a 90° shoulder

Flattening


Milling to make a rough surface flat

High feed milling


Face milling with tools that allow high feed rates (up to 4mm/tooth)

Copying


Combination of discordant and concordant milling, requires many unfavourable engagements and disengagements in cutting.

Quarry milling


Milling for the execution of a quarry or a seat

Chamfering


Milling for chamfering holes or contours.

MAIN MILLING FORMULAS

- $V_t = (D_{cap} \times n \times \pi) \div 1000$
- $n = (V_t \times 1000) \div (\pi \times D_{cap})$
- $F_z = V_f \div (n \times Z_c)$
- $V_f = F_z \times n \times Z_c$

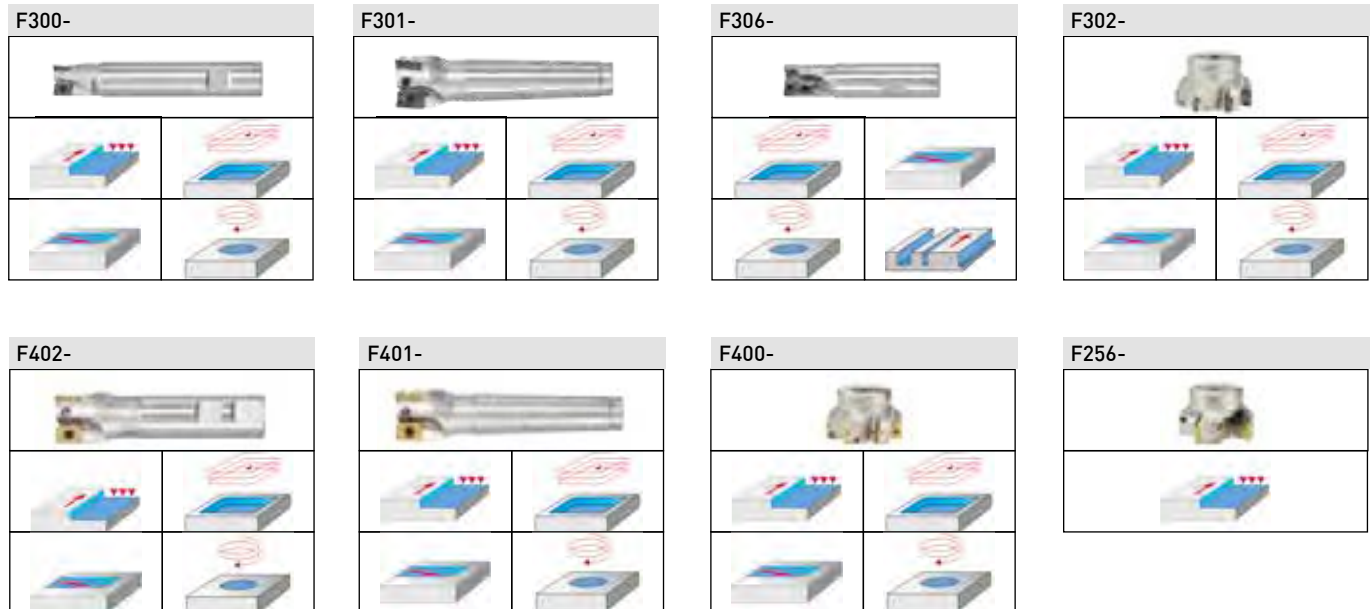
Key

Dcap : Cutting diameter at effective cutting depth doc (mm)
Fz : Feed per tooth (mm/tooth)
Zc : Number of effective milling machine teeth
Vf : Table feed (mm/min)
Fn : Feed per revolution (mm/tooth)
doc : Cutting depth (mm)
Vc : Cutting speed (m/min)
n : Spindle rotation speed (mm/min)
π : its value is 3.14

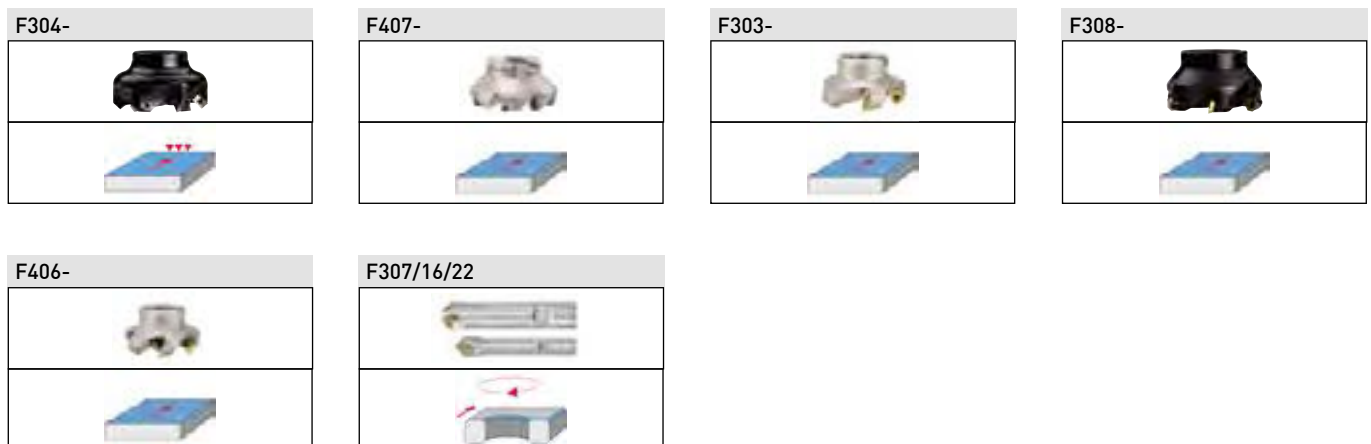


FERVI MILLING TOOLS TYPOLOGY

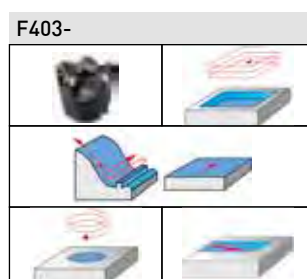
90° MILLING CUTTER



45° MILLING MACHINE

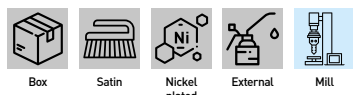


MILLING MACHINE FOR CONTOURING AND FLATTENING ROUND INSERTS



F300-
STRAIGHT SHANK FACE MILLING CUTTER

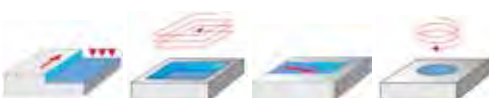
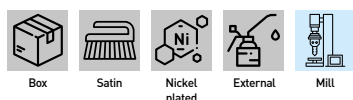
With cylindrical shank



Art.	€	D	d	Z	L1	L2	Screw	Insert (not included)
F300/12	€ 37,50	12 mm	12 mm	1	27 mm	120 mm	KV250	APKT1003...
F300/14	€ 37,50	14 mm	12 mm	1	27 mm	120 mm	KV250	APKT1003...
F300/16	€ 44,60	16 mm	16 mm	2	27 mm	120 mm	KV250	APKT1003...
F300/18	€ 49,70	18 mm	16 mm	2	27 mm	120 mm	KV250	APKT1003...
F300/20	€ 53,30	20 mm	20 mm	3	27 mm	120 mm	KV250	APKT1003...
F300/22	€ 53,30	22 mm	20 mm	3	27 mm	120 mm	KV250	APKT1003...
F300/25	€ 63,80	25 mm	20 mm	4	27 mm	120 mm	KV250	APKT1003...
F300/25/16	€ 63,80	25 mm	20 mm	2	44 mm	120 mm	KV400	APKT1604...
F300/25/16L	€ 74,20	25 mm	20 mm	2	44 mm	200 mm	KV400	APKT1604...
F300/32/16	€ 74,20	32 mm	25 mm	3	50 mm	120 mm	KV400	APKT1604...
F300/32/16L	€ 103,00	32 mm	32 mm	3	55 mm	200 mm	KV400	APKT1604...

F301-
STRAIGHT SHANK FACE MILLING CUTTER

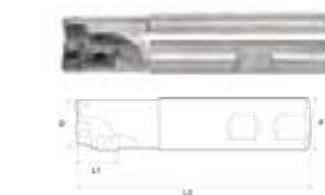
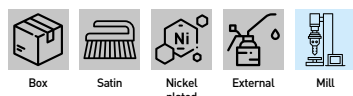
With DIN 228/A morse taper



Art.	€	D	MT	Z	L1	L2	Screw	Insert (not included)
F301/25	€ 66,10	25 mm	3	2	40 mm	125 mm	KV400	APKT1604...
F301/32	€ 70,60	32 mm	3	3	40 mm	125 mm	KV400	APKT1604...
F301/40	€ 90,10	40 mm	3	4	35 mm	125 mm	KV400	APKT1604...
F301/32CM4	€ 90,10	32 mm	4	3	45 mm	150 mm	KV400	APKT1604...
F301/40CM4	€ 95,90	40 mm	4	4	40 mm	150 mm	KV400	APKT1604...

F306-
FACE MILLING CUTTER

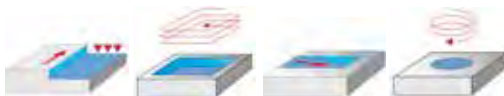
With front perforating cut for making slots, with cylindrical attachment. It allows you to make slots from solid



Art.	€	D	d	Z	L1	L2	Screw	Insert (not included)
F306/20	€ 82,30	20 mm	20 mm	3	18 mm	90 mm	KV250	APKT1003...
F306/25	€ 100,00	25 mm	25 mm	3	18 mm	100 mm	KV250	APKT1003...

F302-
FACE MILLING CUTTER

With sleeve connection



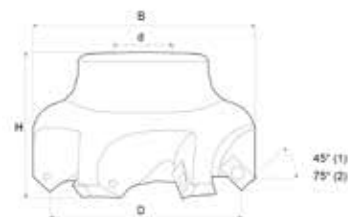
Art.	€	D	L	d	Z	Screw	Insert (not included)
F302/040	€ 145,00	40 mm	40 mm	16 mm	4	KV400	APKT1604...
F302/050	€ 150,00	50 mm	45 mm	22 mm	4	KV400	APKT1604...
F302/063	€ 158,00	63 mm	50 mm	22 mm	6	KV400	APKT1604...
F302/080	€ 187,00	80 mm	50 mm	27 mm	7	KV400	APKT1604...
F302/100	€ 232,00	100 mm	50 mm	32 mm	8	KV400	APKT1604...



F304-

FACE MILLING CUTTER FOR BLIND SIDE'S INSERT

With sleeve connection

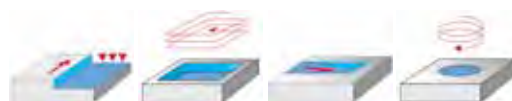
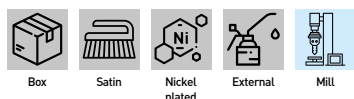


Art.	€	D	H	B	d	Z	Screw	Insert (not included)
F304/063	€ 268,00	63 mm	42 mm	71.2 mm	22 mm	6	KV250	APKT1003...
F304/080	€ 217,00	80 mm	47 mm	84 mm	27 mm	5	KV400	APKT1604...

F402-

FACE MILLING CUTTER

With cylindrical shank

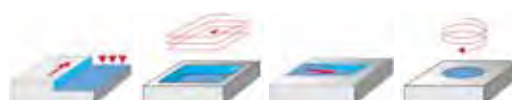
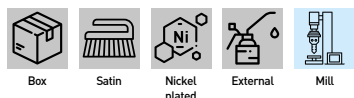


Art.	€	D	d	Z	L1	L2	Screw	Insert (not included)
F402/25	€ 53,80	25 mm	20 mm	2	35 mm	110 mm	KV400	ADLT1503...
F402/32	€ 67,70	32 mm	25 mm	3	35 mm	120 mm	KV400	ADLT1503...
F402/25L	€ 73,30	25 mm	25 mm	2	35 mm	200 mm	KV400	ADLT1503...
F402/32L	€ 94,00	32 mm	25 mm	3	35 mm	200 mm	KV400	ADLT1503...

F401-

FACE MILLING CUTTER

With DIN 228/A morse taper

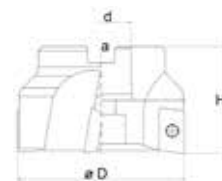
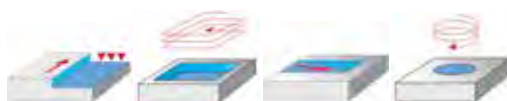
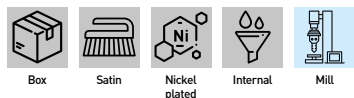


Art.	€	D	MT	Z	L1	L2	Screw	Insert (not included)
F401/25	€ 65,00	25 mm	3	2	44 mm	130 mm	KV400	ADLT1503...
F401/32	€ 79,40	32 mm	3	3	44 mm	130 mm	KV400	ADLT1503...
F401/40	€ 87,00	40 mm	3	4	44 mm	130 mm	KV400	ADLT1503...
F401/40CM4	€ 102,00	40 mm	4	4	44 mm	153 mm	KV400	ADLT1503...

F400-

FACE MILLING CUTTER

With sleeve connection, recommended for use on machines with medium power



Art.	€	D	H	a	d	Z	Screw	Insert (not included)
F400/040	€ 93,20	40 mm	40 mm	8,4 mm	16 mm	4	KV400	ADLT1503...
F400/050	€ 125,00	50 mm	40 mm	10,4 mm	22 mm	5	KV400	ADLT1503...
F400/063	€ 143,00	63 mm	40 mm	10,4 mm	22 mm	6	KV400	ADLT1503...
F400/080	€ 183,00	80 mm	50 mm	12,4 mm	27 mm	7	KV400	ADLT1503...
F400/100	€ 225,00	100 mm	50 mm	14,4 mm	32 mm	8	KV400	ADLT1503...

F256-
FACE MILLING

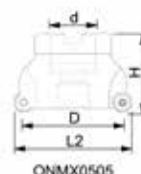
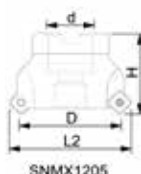
With sleeve connection, recommended for use on machines with medium power



Art.	€	D	H	a	d	Z	Screw	Insert (not included)
F256/040	€ 147,00	40 mm	40 mm	16 mm	16 mm	3	F256/644	TPKN1603...
F256/050	€ 151,00	50 mm	40 mm	16 mm	22 mm	3	F256/644	TPKN1603...
F256/063	€ 164,00	63 mm	40 mm	16 mm	22 mm	3	F256/644	TPKN1603...
F256/080	€ 168,00	80 mm	50 mm	22 mm	27 mm	4	F256/648	TPKN2204...
F256/100	€ 217,00	100 mm	50 mm	22 mm	32 mm	5	F256/648	TPKN2204...

F407-
PRO
MILLING CUTTER WITH NEGATIVE INSERTS FOR FACE MILLING

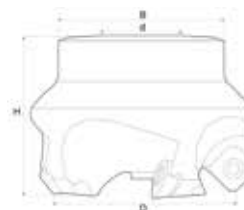
With sleeve connection, recommended for use on machines with medium/high power.



Art.	€	D	H	L2	d	Z	Screw	Insert (not included)
F407/050	€ 123,00	50	40	63	22	4	KV401	ONMX1205... - SNMX1205...
F407/063	€ 164,00	63	40	75	22	6	KV401	ONMX1205... - SNMX1205...
F407/080	€ 204,00	80	50	93	27	7	KV401	ONMX1205... - SNMX1205...
F407/100	€ 246,00	100	50	113	32	8	KV401	ONMX1205... - SNMX1205...

F303-
FACE MILLING CUTTER

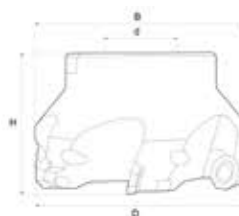
With sleeve connection, recommended for use on machines with medium power



Art.	€	D	H	B	d	Z	Screw	Insert (not included)
F303/040	€ 115,00	40 mm	45 mm	53 mm	16 mm	3	KV500	SEHX1204... / SEHT1204...
F303/050	€ 129,00	50 mm	48 mm	60 mm	22 mm	4	KV500	SEHX1204... / SEHT1204...
F303/063	€ 151,00	63 mm	50 mm	76 mm	22 mm	5	KV500	SEHX1204... / SEHT1204...
F303/080	€ 181,00	80 mm	50 mm	93 mm	27 mm	5	KV500	SEHX1204... / SEHT1204...
F303/100	€ 213,00	100 mm	50 mm	113 mm	32 mm	6	KV500	SEHX1204... / SEHT1204...
F303/125	€ 313,00	125 mm	60 mm	138 mm	40 mm	7	KV500	SEHX1204... / SEHT1204...

F308-
FACE MILLING CUTTERS

With sleeve connection, thanks to the very positive geometry, excellent machined surfaces are obtained



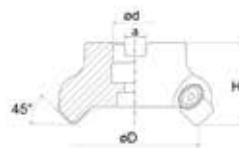
Art.	€	D	H	L2	d	Z	Screw	Insert (not included)
F308/063	€ 215,00	63 mm	40 mm	68 mm	22 mm	5	KV400	OFEX05T3...
F308/080	€ 277,00	80 mm	50 mm	86 mm	27 mm	6	KV400	OFEX05T3...
F308/100	€ 353,00	100 mm	50 mm	106 mm	32 mm	7	KV400	OFEX05T3...



F406-

FACE MILLING CUTTER

With sleeve connection, recommended for use on machines with reduced power



Art.	€	D	H	a	d	Z	Screw	Insert base	Insert (not included)
F406/40	€ 147,00	40 mm	48 mm	8,4 mm	16 mm	3	VT00440	WSSP	SEKN1203...
F406/50	€ 153,00	50 mm	48 mm	10,4 mm	22 mm	4	VT00440	WSSP	SEKN1203...
F406/63	€ 164,00	63 mm	48 mm	12,4 mm	22 mm	5	VT00440	WSSP	SEKN1203...
F406/80	€ 189,00	80 mm	50 mm	14,4 mm	27 mm	5	VT00440	WSSP	SEKN1203...
F406/100	€ 243,00	100 mm	50mm	16,4 mm	32 mm	6	VT00440	WSSP	SEKN1203...

F307/16/22

€ 147,00

INSERTS COUNTER SINKS SET

With cylindrical shank, for deburring of holes, slots and pockets, for milling plate edges



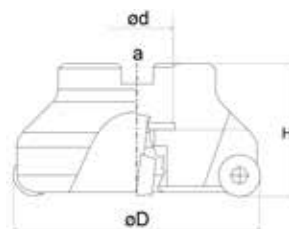
D	16 / 22 mm
d	12 / 20 mm
L1	7 mm
L2	90 / 100 mm
Z	1 / 2
Screw	KV250
Insert (not included)	TCMT1102



F403-

FACE MILLING CUTTER

With sleeve connection



Art.	€	D	H	a	d	Z	Screw	Insert (not included)
F403/40	€ 99,60	40 mm	40 mm	8,4 mm	16 mm	3	KV400	RPMT1204...
F403/50	€ 129,00	50 mm	40 mm	10,4 mm	22 mm	4	KV400	RPMT1204...
F403/63	€ 155,00	63 mm	40 mm	10,4 mm	22 mm	5	KV400	RPMT1204...
F403/80	€ 183,00	80 mm	50 mm	12,4 mm	27 mm	6	KV400	RPMT1204...
F403/100	€ 217,00	100 mm	50 mm	14,4 mm	32 mm	6	KV400	RPMT1204...

BSTG16 € 24,60

SET 5 BASES
16MM

BU3550 € 24,60

5 BUSHING
SET

BSCL09 € 24,60

SET 5 BASES
9MM

BSCL12 € 24,60

SET 5 BASES
12MM

BU4560 € 24,60

5 BUSHING
SET

BSSS12 € 24,60

5 SQUARE
BASES 12MM

BSVJ16 € 24,60

SET 5 BASES
16MM

BSDJ11 € 27,50

5 RHOMBIC
BASES 11MM

BU4050 € 27,00

5 BUSHING
SET

RICAPCLN € 16,60

BASE
BRACKET
SCREW KIT

RICAPTGN € 15,40

BASE
BRACKET
SCREW KIT

RICAPSSN € 16,60

BASE
BRACKET
SCREW KIT

STAFCKJNR € 19,50

RIGHT TOOL
BRACKET

STAFCKJNL € 19,50

LEFT TOOL
BRACKET

BASECKJNR € 11,30

CARBIDE BASE
RIGHT TOOL

BASECKJNL € 11,30

CARBIDE BASE
LEFT TOOL

VITECKJN € 4,58

TOOL SCREW

PDJNRKIT € 19,00

KIT PARTS

PWLNRRKIT € 15,90

BASE
BRACKET
SCREW KIT

MCLNBASE25/32 € 19,30

BASE

CTMTMC16/20 € 23,80

TOOL
BRACKET 16
- 20

CTMTMC25/32 € 23,80

TOOL
BRACKET 25
- 32

MTFNBASE25/32 € 15,00

BASE

CTFP10/12 € 23,80

TOOL
BRACKET

CTFPBASE25/32 € 15,00

BASE
For 25 - 32

BSER16 € 32,50

5 CARBIDE
BASE 16MM

VT00440 € 20,80

5 PCS MILL
SCREWS

BSNR16 € 32,50

5 CARBIDES
16 mm

F256/648 € 12,50

MILL SCREW
080/125

KVX
SCREWS 10 PCS

F256/644 € 7,00

MILL SCREW
040/063

WSSP € 8,50

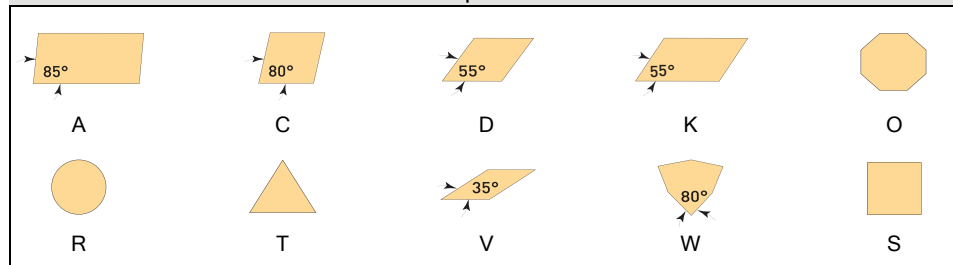
BASE


Art.	€	Screw
KV200	€ 20,40	T8 / M2
KV250	€ 20,40	T8 / M2,5
KV300	€ 20,40	T15 / M3
KV350	€ 20,40	T15 / M3,5
KV400	€ 20,40	T15 / M4
KV401	€ 20,40	T20 / M4
KV450	€ 20,40	T15 / M4,5
KV500	€ 20,40	T20 / M5

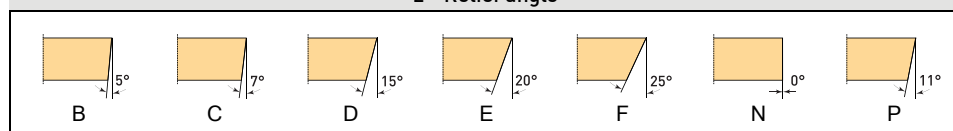
IDENTIFICATION OF TURNING AND MILLING INSERTS

C	N	M	G	12	04	08
1	2	3	4	5	6	7

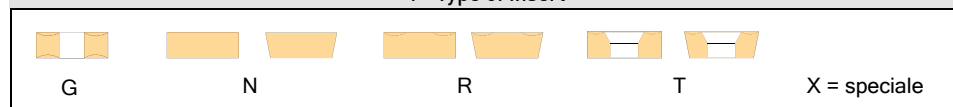
1 - Shape of insert



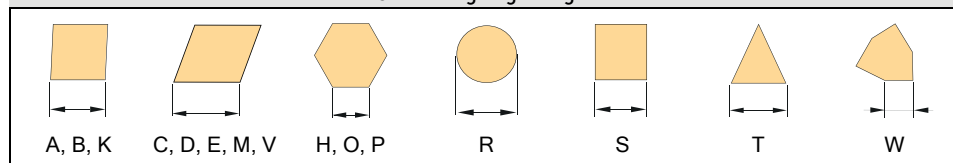
2 - Relief angle



4 - Type of insert



5 - Cutting edge length



7 - Raggio

04	r 0,4
08	r 0,8
12	r 1,2
10	r 1,0

3 - Tollerance

	m	s	d
E	0,025	0,025	0,025
H	0,013	0,025	0,013
L	0,025	0,025	0,05 - 0,13
K	0,013	0,025	0,05 - 0,13
M	0,08	0,13	0,05 - 0,13
U	0,13 - 0,38	0,13 - 0,13	0,08 - 0,25

6 - Thickness

02	2,38 mm
03	3,18 mm
T3	3,97 mm
04	4,76 mm
05	5,56 mm
06	6,35 mm

ISO MATERIAL CLASSIFICATION

P	M	K
Lead and case-hardening steels, tempering and construction steels	Ferritic, austenitic, martensitic, duplex steels	Gray, hardened, spheroidal cast iron, CGI cast iron, sintered iron

CHARACTERISTICS OF INSERT GRADES

Grade	Coating	Work condition	Coolant	
N	CVD	Stable/Normal	X	
134	PVD	Stable/Normal		X
234	PVD	Stable/Normal		X
25	PVD	Stable		X
20A	PVD	Stable/Normal	X	X
F15	CVD	Stable	X	X
F25	CVD	Stable/Normal	X	X
M25	CVD	Stable/Normal	X	X
M35	CVD	Normal/Interrupted	X	X

	Description
	Coating
CVD	They are characterised by high wear resistance and excellent adhesion to carbide. In general turning they are applied in stainless steels and in the ISO P,M,K ranges.
PVD	They increase wear resistance due to their hardness. Their compressive stresses contribute to increased cutting edge toughness and resistance to comb crack formation.
	Work condition
Stable	Type of cut in which the insert has a homogeneous working condition.
Normal	Type of cut in which the insert may have an interrupted/repeated cutting condition.
Interrupted	Type of cut in which the insert will have several interruptions/restarts during processing.

IDENTIFICATION OF THREADING INSERTS

16	E	R	175	ISO
A1	A2	A3	A4	A5

A3 - Cutting direction	
R	Right
L	Left

A5 - Thread profile	
ISO	60° Metric Thread
W	Thread Whitworth 55°
AG60	60° Profile (Free Thread) 0,5 - 3mm
AG55	55° Profile (Free Thread) 28 - 11 TPI

A1 - Cutting edge length	
l	d
11	6,35
16	9,525
22	12,7

A2 - Threading	
E	I
External	Internal

A4 - Thread pitch	
mm	Threads/Inch
$\frac{A4}{100}$ (0,5 - 3mm)	(28 - 11 TPI)

GUIDE TO CHOOSING THE INSERT

Type of insert	Materials			Field of use			Type of processing	
	P	M	K	Finish	Medium	Roughing	Turning	Milling
CCMTx	●	●	○	✓			✓	
CCMTxA	●	○	○	✓			✓	
CNMGx	●	●	○	✓	✓		✓	
CNMGxF15	●	●	○	✓			✓	
CNMGxF25	○	●	○	✓			✓	
CNMGxM25	●	●	○		✓		✓	
CNMGxM35	○	●	○		✓		✓	
DCMTx	●	●	○	✓			✓	
DCMTxA	●	●	○	✓			✓	
DNMGx	●	●	○		✓		✓	
DNMGxM25	●	●	○		✓		✓	
DNMGxM35	○	●	○		✓		✓	
KNUx	●	●	○	✓			✓	
SCMTx	●	●	○	✓			✓	
SCMTxA1	●	●	○	✓			✓	
SCMTxA2	●	●	○	✓	✓		✓	
SCMTxA3	●	●	○	✓	✓		✓	
SNMGxF15	●	●	○	✓			✓	
SNMGxF25	○	●	○	✓			✓	
SNMGxM25	●	●	○		✓		✓	
SNMGxM35	○	●	○		✓		✓	
SPMRx	●	●	○	✓			✓	
TCMTx	●	●	○	✓	✓		✓	
TCMTxA	●	○	○	✓			✓	
WNMGx	●	●	○		✓		✓	
WNMGxM25	●	●	○		✓		✓	
WNMGxM35	○	●	○		✓		✓	



Type of insert	Materials			Field of use			Type of processing	
	P	M	K	Finish	Medium	Roughing	Turning	Milling
TNMGx	●		○	✓			✓	
TNMGxF15	●		○	✓			✓	
TNMGxF25	●		○	✓			✓	
TNMGxM25	●		○		✓		✓	
TNMGxM35	○				✓		✓	
TPMRx	●			✓			✓	
VBMTx	○			✓			✓	
VBMTxA	●	●	○	✓	✓		✓	
ADLTx	●				✓	✓		✓
ADLTxA	●	●			✓	✓		✓
ADLTxA1	●	●			✓	✓		✓
APKTx	○	●			✓			✓
OFEXx	●			✓	✓			✓
OFEXxA	●	●		✓	✓			✓
ONMXxA	●	●		✓	✓			✓
RDHTx	●		○		✓	✓		✓
RPMTx	●		○		✓	✓		✓
SEHTx	●			✓	✓			✓
SEHTxA	○	●		✓	✓			✓
SEKNx	●		○		✓	✓		✓
SEHXx	○				✓	✓		✓
SEHXxA	●	○			✓	✓		✓
SNMXx	●	●		✓	✓			✓
SPKNx	●	○			✓	✓		✓
TPKNx	●	○			✓	✓		✓
GCMX	●						✓	
GCMXA		●					✓	

Key

- Recommended Application
- Possible Application
- ✓ Recommended field of application

CCMTX
TURNING INSERTS

Positive



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
CCMT060204N	€ 7,20	6 mm	6.35 mm	6.30 mm	2.38 mm	0.40 mm	2.80 mm	7°	10
CCMT09T304N	€ 8,30	9 mm	9.52 mm	9.70 mm	3.97 mm	0.40 mm	4.40 mm	7°	10
CCMT09T308N	€ 8,30	9 mm	9.52 mm	9.70 mm	3.97 mm	0.80 mm	4.40 mm	7°	10
CCMT120408N	€ 11,00	12 mm	12.70 mm	12.90 mm	4.76 mm	0.80 mm	5.50 mm	7°	10

CCMTXA
TURNING INSERTS

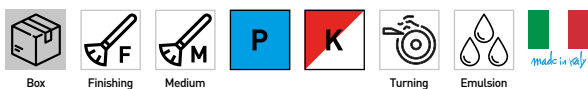
Positive



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
CCMT06020420A	€ 7,50	6 mm	6.35 mm	6.30 mm	2.38 mm	0.40 mm	2.80 mm	7°	10
CCMT09T30420A	€ 8,80	9 mm	9.52 mm	9.70 mm	3.97 mm	0.40 mm	4.40 mm	7°	10
CCMT09T30820A	€ 8,80	9 mm	9.52 mm	9.70 mm	3.97 mm	0.80 mm	4.40 mm	7°	10
CCMT12040820A	€ 11,50	12 mm	12.70 mm	12.90 mm	4.76 mm	0.80 mm	5.50 mm	7°	10

CNMGX
TURNING INSERTS

Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
CNMG120404N	€ 9,20	12 mm	12.70 mm	12.90 mm	4.76 mm	0.40 mm	5.16 mm	-	10
CNMG120408N	€ 9,20	12 mm	12.70 mm	12.90 mm	4.76 mm	0.80 mm	5.16 mm	-	10

CNMGXF15
TURNING INSERTS

Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
CNMG120404F15	€ 9,70	12 mm	12.70 mm	12.90 mm	4.76 mm	0.40 mm	5.16 mm	-	10

CNMGXF25
TURNING INSERTS

Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
CNMG120404F25	€ 9,70	12 mm	12.70 mm	12.90 mm	4.76 mm	0.40 mm	5.16 mm	-	10



CNMGXM25

TURNING INSERTS

Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
CNMG120408M25	€ 9,70	12 mm	12.70 mm	12.90 mm	4.76 mm	0.80 mm	5.16 mm	-	10

CNMGXM35

TURNING INSERTS

Negative

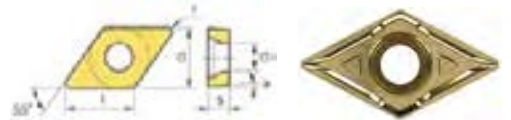


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
CNMG120408M35	€ 9,70	12 mm	12.70 mm	12.90 mm	4.76 mm	0.80 mm	5.16 mm	-	10

DCMTX

TURNING INSERTS

Positive

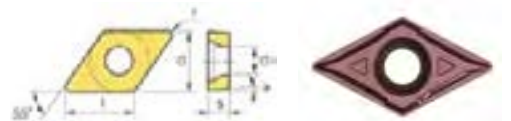


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
DCMT070204N	€ 7,20	7 mm	6.35 mm	7.70 mm	2.38 mm	0.40 mm	2.80 mm	7°	10
DCMT11T304N	€ 9,50	11 mm	9.52 mm	11.60 mm	3.97 mm	0.40 mm	2.20 mm	7°	10

DCMTXA

TURNING INSERTS

Positive

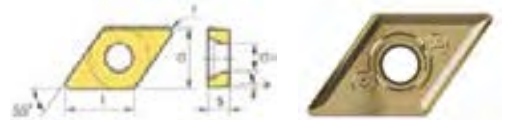


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
DCMT07020420A	€ 7,50	7 mm	6.35 mm	7.70 mm	2.38 mm	0.40 mm	2.80 mm	7°	10
DCMT11T30420A	€ 9,90	11 mm	9.52 mm	11.60 mm	3.97 mm	0.40 mm	2.20 mm	7°	10

DNMGX

TURNING INSERTS

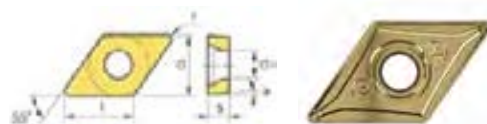
Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
DNMG150608N	€ 13,80	15 mm	12.70 mm	15.50 mm	6.35 mm	0.80 mm	5.20 mm	-	10

DNMGXM25
TURNING INSERTS

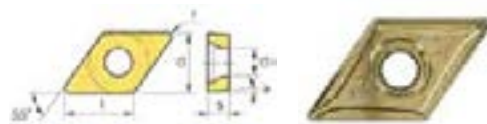
Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
DNMG150608M25	€ 14,70	15 mm	12.70 mm	15.50 mm	6.35 mm	0.80 mm	5.20 mm	-	10

DNMGXM35
TURNING INSERTS

Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
DNMG150608M35	€ 14,70	15 mm	12.70 mm	15.50 mm	6.35 mm	0.80 mm	5.20 mm	-	10

KNUX
TURNING INSERTS

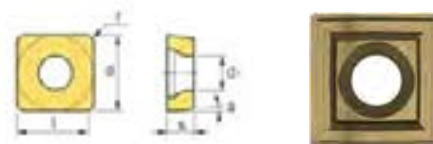
Positive



Art.	€	Dimensions	d	l	S	r	a°	Pack
KNUX160405RN	€ 11,80	16 mm	9.52 mm	19.72 mm	4.76 mm	0.50 mm	-	10
KNUX160410RN	€ 11,80	16 mm	9.52 mm	19.72 mm	4.76 mm	1.00 mm	-	10
KNUX160405LN	€ 11,80	16 mm	9.52 mm	19.72 mm	4.76 mm	0.50 mm	-	10
KNUX160410LN	€ 11,80	16 mm	9.52 mm	19.72 mm	4.76 mm	1.00 mm	-	10

SCMTX
TURNING INSERTS

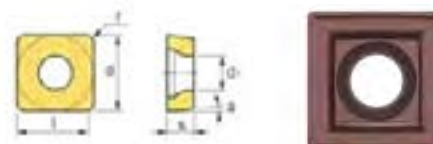
Positive



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
SCMT09T304N	€ 8,40	9 mm	9.52 mm	9.52 mm	3.97 mm	0.40 mm	4.40 mm	7°	10
SCMT09T308N	€ 8,40	9 mm	9.52 mm	9.52 mm	3.97 mm	0.80 mm	4.40 mm	7°	10
SCMT120408N	€ 11,70	12 mm	12.70 mm	12.70 mm	4.76 mm	0.80 mm	5.50 mm	7°	10

SCMTXA1
TURNING INSERTS

Positive



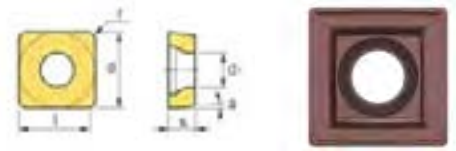
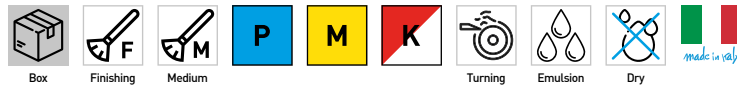
Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
SCMT09T30420A	€ 8,90	9 mm	9.52 mm	9.52 mm	3.97 mm	0.40 mm	4.40 mm	7°	10



SCMTXA2

TURNING INSERTS

Positive

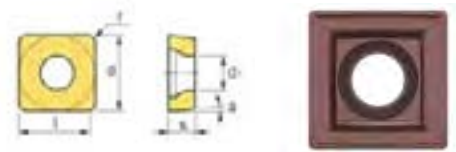


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
SCMT09T30820A	€ 8,90	9 mm	9.52 mm	9.52 mm	3.97 mm	0.80 mm	4.40 mm	7°	10

SCMTXA3

TURNING INSERTS

Positive

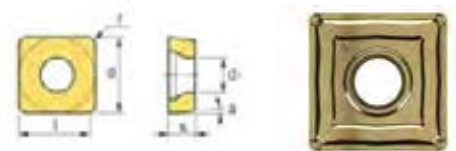


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
SCMT12040820A	€ 12,20	12 mm	12.70 mm	12.70 mm	4.76 mm	0.80 mm	5.50 mm	7°	10

SNMGXF15

TURNING INSERTS

Negative

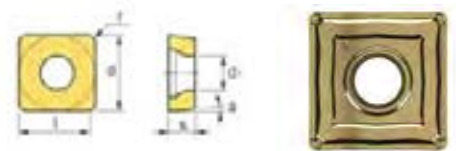


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
SNMG120404F15	€ 10,90	12 mm	12.70 mm	12.70 mm	4.76 mm	0.40 mm	5.16 mm	-	10

SNMGXF25

TURNING INSERTS

Negative

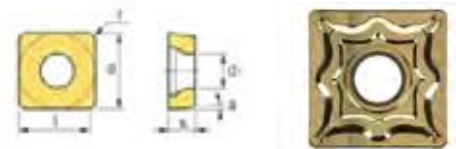


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
SNMG120404F25	€ 10,90	12 mm	12.70 mm	12.70 mm	4.76 mm	0.40 mm	5.16 mm	-	10

SNMGXM25

TURNING INSERTS

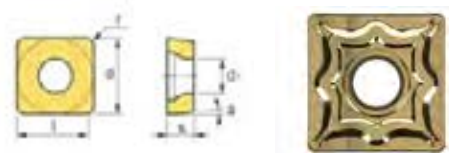
Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
SNMG120408M25	€ 10,90	12 mm	12.70 mm	12.70 mm	4.76 mm	0.80 mm	5.16 mm	-	10

SNMGXM35
TURNING INSERTS

Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
SNMG120408M35	€ 10,90	12 mm	12.70 mm	12.70 mm	4.76 mm	0.80 mm	5.16 mm	-	10

SPMRX
TURNING INSERTS

Positive



Art.	€	Dimensions	d	l	S	r	a°	Pack
SPMR120304N	€ 9,60	12 mm	12.70 mm	12.70 mm	3.18 mm	0.40 mm	11°	10
SPMR120308N	€ 9,60	12 mm	12.70 mm	12.70 mm	3.18 mm	0.80 mm	11°	10

TCMTX
TURNING INSERTS

Positive



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
TCMT090204N	€ 7,00	9 mm	3.40 mm	9.63 mm	2.38 mm	0.40 mm	2.50 mm	7°	10
TCMT110204N	€ 7,30	11 mm	6.35 mm	11.00 mm	2.38 mm	0.40 mm	2.80 mm	7°	10
TCMT16T304N	€ 9,30	16 mm	9.52 mm	16.50 mm	3.97 mm	0.40 mm	4.40 mm	7°	10
TCMT16T308N	€ 9,30	16 mm	9.52 mm	16.50 mm	3.97 mm	0.80 mm	4.40 mm	7°	10

TCMTXA
TURNING INSERTS

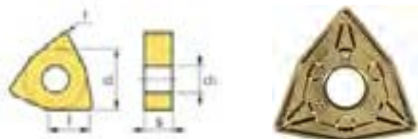
Positive



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
TCMT09020420A	€ 7,40	9 mm	3.40 mm	9.63 mm	2.38 mm	0.40 mm	2.50 mm	7°	10
TCMT11020420A	€ 7,70	11 mm	6.35 mm	11.00 mm	2.38 mm	0.40 mm	2.80 mm	7°	10
TCMT16T30420A	€ 9,80	16 mm	9.52 mm	16.50 mm	3.97 mm	0.40 mm	4.40 mm	7°	10
TCMT16T30820A	€ 9,80	16 mm	9.52 mm	16.50 mm	3.97 mm	0.80 mm	4.40 mm	7°	10

WNMGX
TURNING INSERTS

Negative



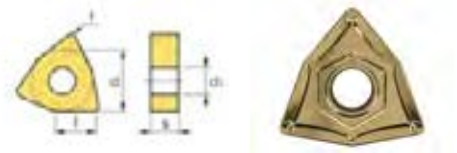
Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
WNMG080408N	€ 11,70	8 mm	12.70 mm	8.70 mm	4.76 mm	0.80 mm	5.10 mm	-	10



WNUMGXM25

TURNING INSERTS

Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
WNUMG080408M25	€ 12,20	8 mm	12.70 mm	8.70 mm	4.76 mm	0.80 mm	5.10 mm	-	10

WNUMGXM35

TURNING INSERTS

Negative

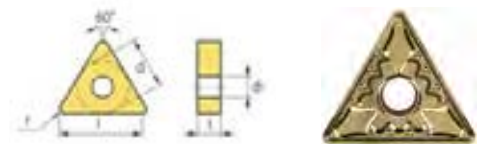


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
WNUMG080408M35	€ 12,20	8 mm	12.70 mm	8.70 mm	4.76 mm	0.80 mm	5.10 mm	-	10

TNMGX

TURNING INSERTS

Negative

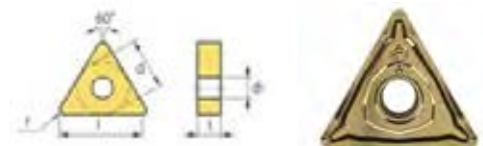


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
TNMG160404N	€ 9,90	16 mm	9.52 mm	16.50 mm	4.76 mm	0.40 mm	3.81 mm	-	10
TNMG160408N	€ 9,90	16 mm	9.52 mm	16.50 mm	4.76 mm	0.80 mm	3.81 mm	-	10
TNMG220408N	€ 11,00	22 mm	12.70 mm	18.25 mm	4.76 mm	0.80 mm	5.16 mm	-	10

TNMGXF15

TURNING INSERTS

Negative

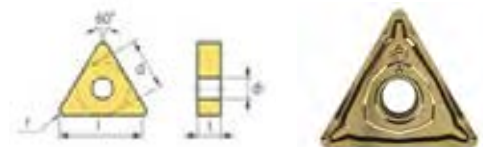


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
TNMG160404F15	€ 10,50	16 mm	9.52 mm	16.50 mm	4.76 mm	0.40 mm	3.81 mm	-	10

TNMGXF25

TURNING INSERTS

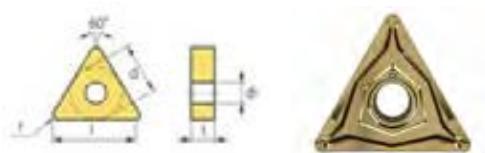
Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
TNMG160404F25	€ 10,50	16 mm	9.52 mm	16.50 mm	4.76 mm	0.40 mm	3.81 mm	-	10

TNMGXM25
TURNING INSERTS

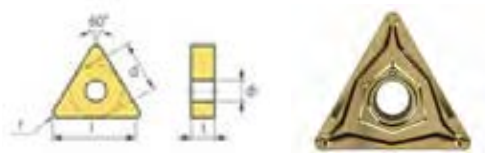
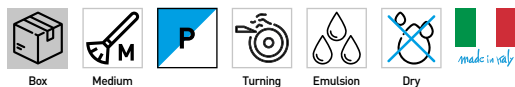
Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
TNMG160408M25	€ 10,50	16 mm	9.52 mm	16.50 mm	4.76 mm	0.80 mm	3.81 mm	-	10

TNMGXM35
TURNING INSERTS

Negative



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
TNMG160408M35	€ 10,50	16 mm	9.52 mm	16.50 mm	4.76 mm	0.80 mm	3.81 mm	-	10

TPMRX
TURNING INSERTS

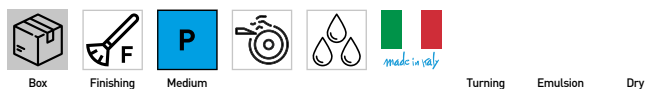
Positive



Art.	€	Dimensions	d	l	S	r	a°	Pack
TPMR110304N	€ 6,30	11 mm	5.98 mm	10.37 mm	3.18 mm	0.40 mm	11°	10
TPMR110308N	€ 6,30	11 mm	5.98 mm	10.37 mm	3.18 mm	0.80 mm	11°	10
TPMR160304N	€ 8,40	16 mm	9.23 mm	16 mm	3.18 mm	0.40 mm	11°	10
TPMR160308N	€ 8,40	16 mm	9.23 mm	16 mm	3.18 mm	0.80 mm	11°	10

VBMTX
TURNING INSERTS

Positive



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
VBMT160404N	€ 13,40	16 mm	9.52 mm	16.60 mm	4.76 mm	0.40 mm	4.40 mm	5°	10

VBMTXA

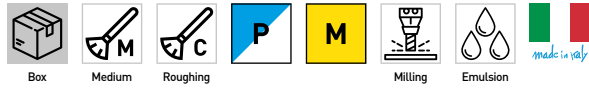

Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
VBMT16040420A	€ 14,20	16 mm	9.52 mm	16.60 mm	4.76 mm	0.40 mm	4.40 mm	5°	10



ADLTXA

MILLING INSERTS

90°

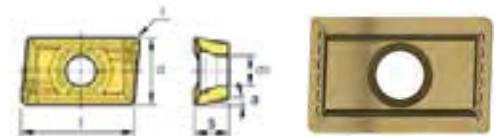


Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
ADLT150308R20A	€ 10,30	15 mm	9.52 mm	14.5 mm	3.18 mm	0.80 mm	4.50 mm	15°	10

ADLTX

MILLING INSERTS

90°



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
ADLT1503ZZR234	€ 9,00	15 mm	9.52 mm	14.50 mm	3.18 mm	0.80 mm	4.50 mm	15°	10

ADLTXA1

MILLING INSERTS

90°



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
ADLT1503ZZR20A	€ 9,60	15 mm	9.52 mm	14.50 mm	3.18 mm	0.80 mm	4.50 mm	15°	10

APKTX

MILLING INSERTS

90°



Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
APKT1003PDER20A	€ 11,80	10 mm	6.70 mm	10.00 mm	3.18 mm	0.50 mm	3.20 mm	11°	10
APKT1604PDER20A	€ 13,40	16 mm	9.50 mm	16.30 mm	4.76 mm	0.90 mm	4.40 mm	11°	10

OFEXX

MILLING INSERTS

45°



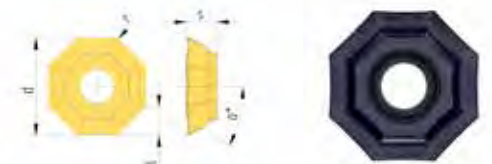
Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
OFEX05T305234	€ 12,30	5 mm	12.80 mm	3.70 mm	3.97 mm	0.50 mm	4.56 mm	25°	10

OFEXXA
MILLING INSERTS

45°



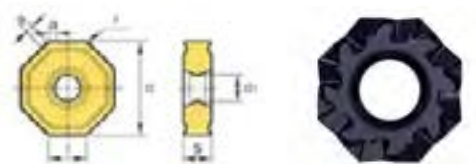
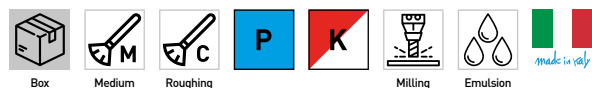
Art.	€	Dimensions	d	l	S	r	d1	a°	Pack
OFEX05T30520A	€ 13,00	5 mm	12.80 mm	3.70 mm	3.97 mm	0.50 mm	4.56 mm	25°	10


ONMXXA
MILLING INSERTS

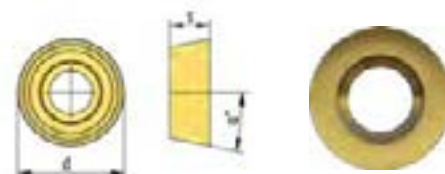
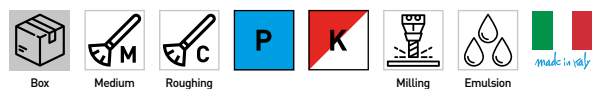
45°



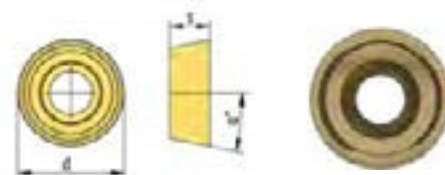
Art.	€	Dimensions	d	l	S	d1	a°	Pack
ONMX120520A	€ 15,90	12 mm	12.70 mm	1.50 mm	5.56 mm	6.00 mm	-	10


RDHTX
MILLING INSERTS


Art.	€	Dimensions	d	S	a°	Pack
RDHT10T3M0-N	€ 11,00	10 mm	10 mm	3.97 mm	15°	10


RPMTX
MILLING INSERTS


Art.	€	Dimensions	d	S	a°	Pack
RPMT1204N	€ 10,40	12 mm	12 mm	4.76 mm	11°	10


SEHTX
MILLING INSERTS

45°



Art.	€	Dimensions	d	a	S	d1	a°	Pack
SEHT1204AFN234	€ 16,20	12 mm	12.70 mm	1.80 mm	4.76 mm	5.50 mm	20°	10


SEHTXA
MILLING INSERTS

45°



Art.	€	Dimensions	d	a	S	d1	a°	Pack
SEHT1204AFN20A	€ 17,10	12 mm	12.70 mm	1.80 mm	4.76 mm	5.50 mm	20°	10

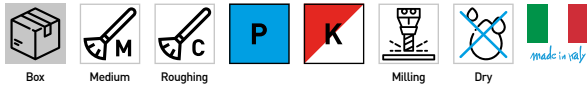




SEKNX

MILLING INSERTS

45°



Art.	€	Dimensions	d	a	S	a°	Pack
SEKN1203AFN25	€ 9,30	12 mm	12.70 mm	1.80 mm	3.18 mm	20°	10

SEHXX

MILLING INSERTS

45°



Art.	€	Dimensions	d	a	S	d1	a°	Pack
SEHX1204234	€ 12,10	12 mm	12.70 mm	1.80 mm	4.76 mm	5.50 mm	20°	10

SEHXXA

MILLING INSERTS

45°



Art.	€	Dimensions	d	a	S	d1	a°	Pack
SEHX120420A	€ 12,80	12 mm	12.70 mm	1.80 mm	4.76 mm	5.50 mm	20°	10

SNMXX

MILLING INSERTS

45°



Art.	€	Dimensions	d	a	S	d1	a°	Pack
SNMX120520A	€ 12,50	12 mm	12.70 mm	1.80 mm	5.56 mm	6.00 mm	-	10

SPKNX

MILLING INSERTS

45°

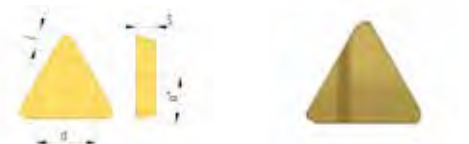


Art.	€	Dimensions	l	a	S	a°	Pack
SPKN1203R25	€ 10,70	12 mm	12.7 mm	1.40 mm	3.18 mm	11°	10

TPKNX

MILLING INSERTS

45°



Art.	€	Dimensions	d	l	a	S	a°	Pack
TPKN1603R25	€ 8,40	16 mm	9.52 mm	16.50 mm	1.47 mm	3.18 mm	11°	10
TPKN2204R25	€ 12,10	22 mm	12.70 mm	22.00 mm	1.47 mm	4.76 mm	11°	10

16IRX
INTERNAL THREAD INSERTS

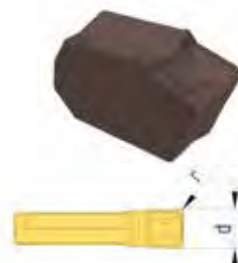

Art.	€	Thread	Pack
11IRA55134	€ 11,00	Whitworth 28 - 11 TPI	10
11IRA60134	€ 11,00	Metric 0.2 - 3 mm	10
16IR100ISO134	€ 12,30	P. Metric 1 mm	10
16IR125ISO134	€ 12,30	P. Metric 1.25 mm	10
16IR150ISO134	€ 12,30	P. Metric 1.50 mm	10
16IR175ISO134	€ 12,30	P. Metric 1.75 mm	10
16IR200ISO134	€ 12,30	P. Metric 2.00 mm	10
16IR250ISO134	€ 12,30	P. Metric 2.50 mm	10
16IR300ISO134	€ 12,30	P. Metric 3.00 mm	10
16IRAG60134	€ 12,30	Metric 0.2 - 3 mm	10
16IR14W134	€ 12,30	Whitworth 14 TPI	10
16IR11W134	€ 12,30	Whitworth 11 TPI	10
16IRAG55134	€ 12,30	Whitworth 28 - 11 TPI	10

16ERX
EXTERNAL THREAD INSERTS


Art.	€	Thread	Pack
16ER100ISO134	€ 12,30	P. Metric 1 mm	10
16ER125ISO134	€ 12,30	P. Metric 1.25 mm	10
16ER150ISO134	€ 12,30	P. Metric 1.50 mm	10
16ER175ISO134	€ 12,30	P. Metric 1.75 mm	10
16ER200ISO134	€ 12,30	P. Metric 2.00 mm	10
16ER250ISO134	€ 12,30	P. Metric 2.50 mm	10
16ER300ISO134	€ 12,30	P. Metric 3.00 mm	10
16ERAG60134	€ 12,30	Metric 0.2 - 3 mm	10
16ER14W134	€ 12,30	Whitworth 14 TPI	10
16ER11W134	€ 12,30	Whitworth 11 TPI	10
16ERAG55134	€ 12,30	Whitworth 28 - 11 TPI	10

GCMX
CUTTING INSERTS


Art.	€	Thickness	r	Pack
GCMX2N134	€ 8,80	2.20 mm	0.20 mm	10
GCMX3N134	€ 8,80	3.10 mm	0.20 mm	10
GCMX4N134	€ 9,90	4.10 mm	0.20 mm	10
GCMX5N134	€ 10,40	5.10 mm	0.3 mm	10

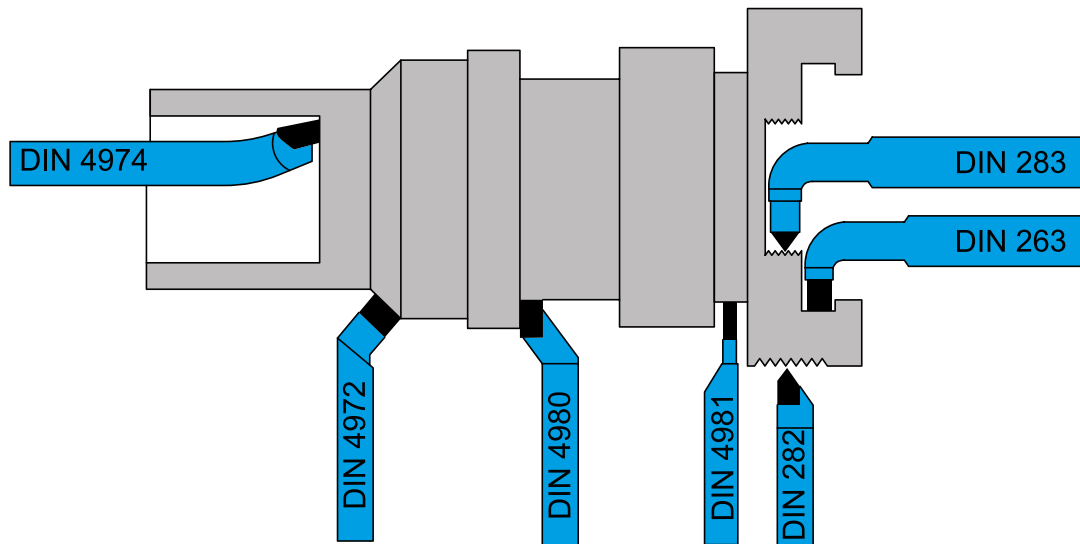


Art.	€	Thickness	r	Pack
GCMX2N20A	€ 9,20	2.20 mm	0.20 mm	10
GCMX3N20A	€ 9,20	3.10 mm	0.20 mm	10
GCMX4N20A	€ 10,50	4.10 mm	0.20 mm	10
GCMX5N20A	€ 11,00	5.10 mm	0.30 mm	10

165X
GROOVE INSERTS

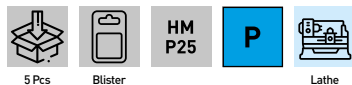

Art.	€	S	Pack
165110134	€ 12,30	1.10 mm	10
165130134	€ 12,30	1.30 mm	10
165160134	€ 12,30	1.60 mm	10
165185134	€ 12,30	1.85 mm	10

Art.	€	S	Pack
165215134	€ 12,30	2.15 mm	10
165265134	€ 12,30	2.65 mm	10
165315134	€ 12,30	3.15 mm	10



B005-

CARBIDE TIPPED LATH E TOOL SET

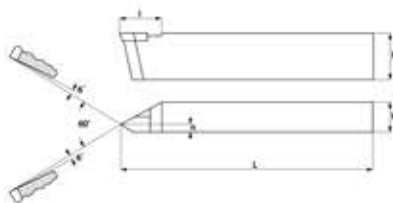


Art.	€	Kit
B005	€ 25,40	1BRAS411108RP - 1BRAS411110RP - 1BRAS410312RP - 1BRAS410412RP - 1BRAS410912RP
B005/16	€ 38,10	1BRAS411110RP - 1BRAS411112RP - 1BRAS410316RP - 1BRAS410416RP - 1BRAS410916RP
B005/20	€ 47,70	1BRAS411112RP - 1BRAS411116RP - 1BRAS410320RP - 1BRAS410420RP - 1BRAS410920RP

BRFEX

CARBIDE TIPPED TOOL FOR EXTERNAL THREAD

DIN 282, for the execution of all external 60° threads

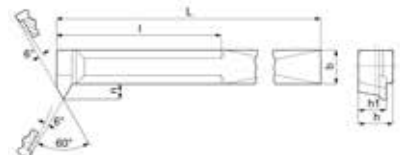


Art.	€	L	b	h
BRFE12RP	€ 9,10	90 mm	12 mm	12 mm
BRFE16RP	€ 10,40	100 mm	16 mm	16 mm
BRFE20RP	€ 12,90	125 mm	20 mm	20 mm
BRFE25RP	€ 15,60	140 mm	25 mm	25 mm

BRFIX

CARBIDE TIPPED TOOL FOR INTERNAL THREAD

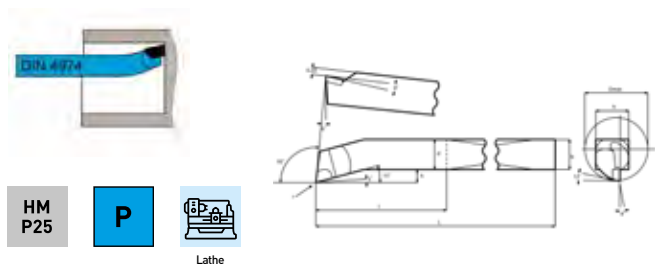
DIN 283, for the execution of all internal 60° threads



Art.	€	L	b	h
BRFI10RP	€ 9,60	150 mm	10 mm	10 mm
BRFI12RP	€ 10,40	180 mm	12 mm	12 mm
BRFI16RP	€ 12,90	210 mm	16 mm	16 mm
BRFI20RP	€ 13,40	250 mm	20 mm	20 mm
BRFI25RP	€ 16,70	300 mm	25 mm	25 mm

BRAS4111X
CARBIDE TIPPED TOOL FOR BLIND HOLES

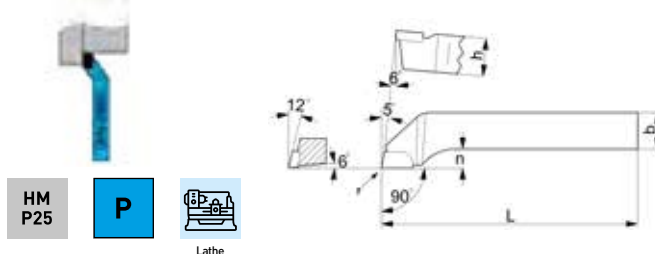
ISO 9 - DIN 4974.



Art.	€	L	b	h
BRAS411108RP	€ 6,90	125 mm	8 mm	8 mm
BRAS411110RP	€ 8,40	150 mm	10 mm	10 mm
BRAS411112RP	€ 8,90	180 mm	12 mm	12 mm
BRAS411116RP	€ 10,70	210 mm	16 mm	16 mm
BRAS411120RP	€ 11,50	250 mm	20 mm	20 mm
BRAS411125RP	€ 17,30	300 mm	25 mm	25 mm
BRAS411132RP	€ 20,70	355 mm	32 mm	32 mm

BRAS4104X
CARBIDE TIPPED TOOL FOR FACING

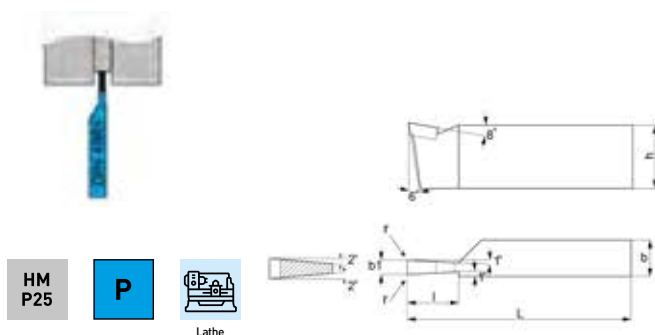
ISO 6 - DIN 4980.



Art.	€	L	b	h
BRAS410410LP	€ 6,00	90 mm	10 mm	10 mm
BRAS410410RP	€ 6,00	90 mm	10 mm	10 mm
BRAS410412LP	€ 6,60	100 mm	12 mm	12 mm
BRAS410412RP	€ 6,60	100 mm	12 mm	12 mm
BRAS410416LP	€ 7,90	110 mm	16 mm	16 mm
BRAS410416RP	€ 7,90	110 mm	16 mm	16 mm
BRAS410420LP	€ 9,60	125 mm	20 mm	20 mm
BRAS410420RP	€ 9,60	125 mm	20 mm	20 mm
BRAS410425RP	€ 14,00	140 mm	25 mm	25 mm

BRAS4109X
CARBIDE TIPPED TOOL FOR CUTTING OFF

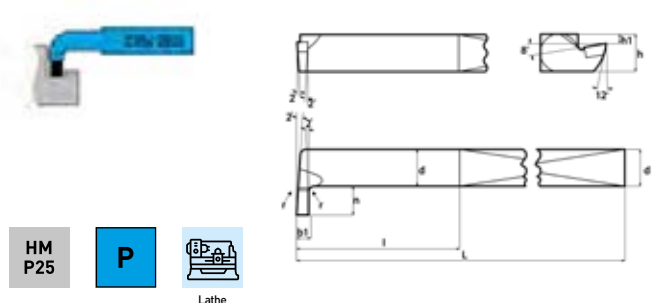
ISO 7 - DIN 4981



Art.	€	L	b	h	b1
BRAS410912RP	€ 6,30	100 mm	8 mm	12 mm	3 mm
BRAS410916RP	€ 6,90	110 mm	10 mm	16 mm	3,5 mm
BRAS410920RP	€ 7,70	125 mm	12 mm	20 mm	5 mm
BRAS410925RP	€ 10,90	140 mm	16 mm	25 mm	6 mm

BRCIX
CARBIDE TIPPED TOOL FOR INTERNAL SLOTS

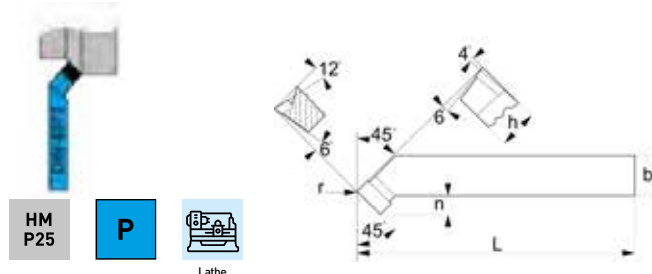
DIN 263.



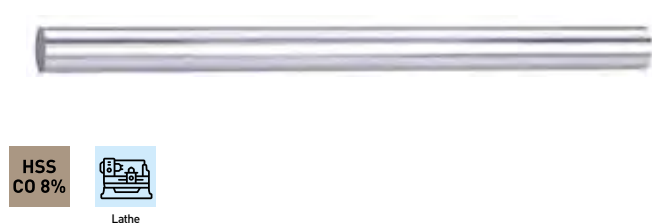
Art.	€	L	b	h	b1
BRCI10RP	€ 9,90	150 mm	10 mm	10 mm	3 mm
BRCI12RP	€ 9,90	180 mm	12 mm	12 mm	4 mm
BRCI16RP	€ 11,30	210 mm	16 mm	16 mm	5 mm
BRCI20RP	€ 12,30	210 mm	20 mm	20 mm	6 mm
BRCI25RP	€ 15,90	300 mm	25 mm	25 mm	8 mm

BRAS4103X
CARBIDE TIPPED TOOL FOR OUTSIDE ROUGHING

ISO 2 - DIN 4972.



Art.	€	L	b	h
BRAS410310RP	€ 6,30	90 mm	10 mm	10 mm
BRAS410312LP	€ 6,90	100 mm	12 mm	12 mm
BRAS410312RP	€ 6,90	100 mm	12 mm	12 mm
BRAS410316LP	€ 8,30	110 mm	16 mm	16 mm
BRAS410316RP	€ 8,30	110 mm	16 mm	16 mm
BRAS410320LP	€ 10,20	125 mm	20 mm	20 mm
BRAS410320RP	€ 10,20	125 mm	20 mm	20 mm
BRAS410325RP	€ 14,70	140 mm	25 mm	25 mm

B012-
HARDENED AND GROUNDED TOOL BITS


Art.	€	ø	Length	Tolerance
B012/04	€ 8,90	4 mm	200 mm	h9
B012/05	€ 9,90	5 mm	200 mm	h9
B012/06	€ 11,30	6 mm	200 mm	h9
B012/08	€ 14,70	8 mm	200 mm	h9
B012/10	€ 18,20	10 mm	200 mm	h9
B012/12	€ 23,10	12 mm	200 mm	h9
B012/13	€ 28,40	13 mm	135 mm	h9
B012/16	€ 43,50	16 mm	200 mm	h9
B012/20	€ 56,20	20 mm	200 mm	h9



B013-

HARDENED AND GROUNDED TOOL BITS



HSS
CO 8%



Lathe

Art.	€	Sides dimension	Length	Tolerance
B013/04X04	€ 10,30	4 x 4 mm	200 mm	h13
B013/05X05	€ 13,00	5 x 5 mm	200 mm	h13
B013/06X06	€ 14,30	6 x 6 mm	200 mm	h13
B013/08X08	€ 17,30	8 x 8 mm	200 mm	h13
B013/10X10	€ 24,20	10 x 10 mm	200 mm	h13
B013/12X12	€ 28,50	12 x 12 mm	200 mm	h13
B013/14X14	€ 39,90	14 x 14 mm	200 mm	h13
B013/16X16	€ 45,80	16 x 16 mm	200 mm	h13
B013/20X20	€ 67,70	20 x 20 mm	200 mm	h13

B014-

HARDENED AND GROUNDED TOOL BITS



HSS
CO 8%



Lathe

Art.	€	Sides dimension	Length	Tolerance
B014/20X04	€ 24,60	20 x 04 mm	200 mm	h13
B014/20X05	€ 26,40	20 x 05 mm	200 mm	h13
B014/20X06	€ 39,60	20 x 06 mm	200 mm	h13
B014/20X08	€ 50,20	20 x 08 mm	200 mm	h13
B014/20X10	€ 53,30	20 x 10 mm	200 mm	h13
B014/20X12	€ 53,30	20 x 12 mm	200 mm	h13
B014/25X06	€ 38,50	25 x 06 mm	200 mm	h13



TYPES OF MATERIAL USED IN THE CONSTRUCTION OF HELICAL TIPS

	Type	Description	Duration	Processable metals
HSS	 ST1Ax	HSS, High Speed Steel, is the most common of all metal tool steels. A tool made of HSS has high hardness and good strength.	**	Alloy and non-alloy steels, non-ferrous metals, grey and malleable cast iron, sintered iron
	 P023-			
	 ST2Ax			
HSS-TiN	 P058-	The titanium coating, carried out to a HSS tool forms a harder and stronger alloy. This leads to a drill capable of machining the same materials as HSS but with much reduced cutting edge wear.	****	Alloy and non-alloy steels, non-ferrous metals, malleable cast iron, sintered iron
HSS-Co5%	 P065-	Cobalt, added to a steel tool such as HSS - in this case 5% - gives strength and resistance and increases the hardness of the tool itself. Cobalt retains its properties at a higher temperature than titanium, which makes it possible to drill at a higher speed and under more critical conditions.	*****	Hard and treated steels, stainless steels, chrome-nickel, cast iron and bronze
HSS-Co8%	 P064-	Cobalt, added to a steel tool such as HSS - in this case 8% - gives strength and resistance and increases the hardness of the tool itself. Cobalt retains its properties at a higher temperature than titanium, which makes it possible to drill at a higher speed and under more critical conditions.	*****	Hard and treated steels, stainless steels, chrome-nickel, cast iron and bronze

DRILLING PARAMETERS BY MATERIAL TYPE HSS, HSS-CO5% AND HSS-CO8% DRILL TIPS

Materials to be processed	Tip type	Peripheral speed Vt (m/min)	Tip diameter				Coolant
			2	5	8	12	
			Feed (mm/revolution)				
Non-alloy structural steel R<600N/mm2	HSS	20 - 25	0,05	0,12	0,20	0,25	Emulsion
	HSS-Tin	25 - 30					
Low alloy construction steel R< 700÷900N/mm2	HSS	10 - 12	0,03	0,07	0,10	0,16	Emulsion
	HSS-Tin	15 - 18					
Alloy steel R< 1100÷1300N/mm2	HSS	6 - 8	0,02	0,05	0,08	0,12	Emulsion
	HSS-Tin	8 - 10					
Stainless steel	Hss-Co5%	6 - 8	0,02	0,05	0,08	0,12	Emulsion
	Hss-Co8%	8 - 10					
Grey Cast Iron 200HB	HSS	15 - 20	0,02	0,12	0,20	0,25	No refriger.
	HSS-Tin	20 - 25					
Grey Cast Iron 350HB	HSS	5 - 10	0,03	0,07	0,10	0,16	No refriger.
	HSS-Tin	20 - 25					
Bronze	HSS	20 - 30	0,05	0,08	0,14	0,20	Emulsion or Oil
Brass	HSS	40 - 70	0,06	0,16	0,22	0,32	
Aluminium	HSS	40 - 80	0,05	0,14	0,18	0,22	Emulsion
Aluminium alloys	HSS	30 - 60	0,05	0,14	0,18	0,22	



THEORETICAL NUMBER OF RPM FOR THE USE OF HELICAL TIPS ACCORDING TO THE CHOSEN V_t

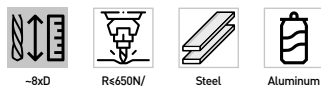
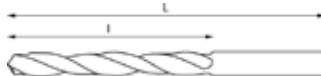
Ø	Cutting speed V_c (mt/min)																	
	3	4	5	6	8	10	12	15	18	20	25	30	35	40	50	60	70	80
(mm)	Number of revolutions per minute (rpm)																	
2	478	637	796	955	1274	1592	1911	2389	2866	3185	3981	4777	5573	6369	7962	9554	11146	12739
3	318	425	531	637	849	1062	1274	1592	1911	2123	2654	3185	3715	4246	5308	6369	7431	8493
4	239	318	398	478	637	796	955	1194	1433	1592	1990	2389	2787	3185	3981	4777	5573	6369
5	191	255	318	382	510	637	764	955	1146	1274	1592	1911	2229	2548	3185	3822	4459	5096
6	159	212	265	318	425	531	637	796	955	1062	1327	1592	1858	2123	2654	3185	3715	4246
8	119	159	199	239	318	398	478	597	717	796	995	1194	1393	1592	1990	2389	2787	3185
10	96	127	159	191	255	318	382	478	573	637	796	955	1115	1274	1592	1911	2229	2548
12	80	106	133	159	212	265	318	398	478	531	663	796	929	1062	1327	1592	1858	2123



ST1AX

STRAIGHT SHANK TWIST DRILL

DIN 338/N, right hand, black finish



Art.	€	Ø	L	l	Pack
ST1A01	€ 0,43	1,00 mm	34 mm	12 mm	10
ST1A01.25	€ 0,43	1,25 mm	38 mm	16 mm	10
ST1A01.50	€ 0,43	1,50 mm	40 mm	18 mm	10
ST1A01.75	€ 0,43	1,75 mm	46 mm	22 mm	10
ST1A02	€ 0,43	2,00 mm	49 mm	24 mm	10
ST1A02.25	€ 0,43	2,25 mm	53 mm	27 mm	10
ST1A02.50	€ 0,43	2,50 mm	57 mm	30 mm	10
ST1A02.75	€ 0,43	2,75 mm	61 mm	33 mm	10
ST1A03	€ 0,43	3,00 mm	61 mm	33 mm	10
ST1A03.25	€ 0,48	3,25 mm	65 mm	36 mm	10
ST1A03.50	€ 0,48	3,50 mm	70 mm	39 mm	10
ST1A03.75	€ 0,48	3,75 mm	70 mm	39 mm	10
ST1A04	€ 0,48	4,00 mm	75 mm	43 mm	10
ST1A04.25	€ 0,56	4,25 mm	75 mm	43 mm	10
ST1A04.50	€ 0,56	4,50 mm	80 mm	47 mm	10
ST1A04.75	€ 0,56	4,75 mm	80 mm	47 mm	10
ST1A05	€ 0,63	5,00 mm	86 mm	52 mm	10
ST1A05.25	€ 0,63	5,25 mm	86 mm	52 mm	10
ST1A05.50	€ 0,63	5,50 mm	93 mm	57 mm	10
ST1A05.75	€ 0,72	5,75 mm	93 mm	57 mm	10
ST1A06	€ 0,72	6,00 mm	93 mm	57 mm	10
ST1A06.25	€ 0,82	6,25 mm	101 mm	63 mm	10
ST1A06.50	€ 0,82	6,50 mm	101 mm	63 mm	10
ST1A06.75	€ 1,09	6,75 mm	109 mm	69 mm	10
ST1A07	€ 1,09	7,00 mm	109 mm	69 mm	10
ST1A07.25	€ 1,09	7,25 mm	109 mm	69 mm	10
ST1A07.50	€ 1,19	7,50 mm	109 mm	69 mm	10
ST1A07.75	€ 1,27	7,75 mm	117 mm	75 mm	10
ST1A08	€ 1,27	8,00 mm	117 mm	75 mm	10
ST1A08.25	€ 1,46	8,25 mm	117 mm	75 mm	5
ST1A08.50	€ 1,46	8,50 mm	117 mm	75 mm	5
ST1A08.75	€ 1,62	8,75 mm	125 mm	81 mm	5
ST1A09	€ 1,62	9,00 mm	125 mm	81 mm	5
ST1A09.25	€ 1,80	9,25 mm	125 mm	81 mm	5
ST1A09.50	€ 1,80	9,50 mm	125 mm	81 mm	5
ST1A09.75	€ 1,90	9,75 mm	133 mm	87 mm	5
ST1A10	€ 1,99	10,00 mm	133 mm	87 mm	5
ST1A10.25	€ 2,36	10,25 mm	133 mm	87 mm	5
ST1A10.50	€ 2,36	10,50 mm	133 mm	87 mm	5
ST1A10.75	€ 2,70	10,75 mm	142 mm	94 mm	5
ST1A11	€ 2,70	11,00 mm	142 mm	94 mm	5
ST1A11.25	€ 3,07	11,25 mm	142 mm	94 mm	5
ST1A11.50	€ 3,07	11,50 mm	142 mm	94 mm	5
ST1A11.75	€ 3,43	11,75 mm	142 mm	94 mm	5
ST1A12	€ 3,43	12,00 mm	151 mm	101 mm	5
ST1A12.25	€ 3,89	12,25 mm	151 mm	101 mm	5
ST1A12.50	€ 3,89	12,50 mm	151 mm	101 mm	5
ST1A12.75	€ 3,89	12,75 mm	151 mm	101 mm	5
ST1A13	€ 3,89	13,00 mm	151 mm	101 mm	5

P046

€ 31,30

TWIST DRILL SET

DIN 338/N, right hand, black finish.



Size (step 0,5 mm)

1 ÷ 13 mm

P045

€ 15,80

TWIST DRILL SET

DIN 338/N, right hand, black finish.



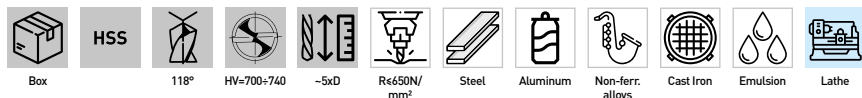
Size (step 0,5 mm)

1 ÷ 10 mm

ST1AXC

STRAIGHT SHANK TWIST DRILL

DIN 1897/N, rolled, right hand, short length, black finish



Art.	€	Ø	L	l	Pack
ST1A02.00C	€ 0,31	2,00 mm	38 mm	12 mm	10
ST1A02.50C	€ 0,31	2,50 mm	43 mm	14 mm	10
ST1A03.00C	€ 0,31	3,00 mm	46 mm	16 mm	10
ST1A03.25C	€ 0,36	3,25 mm	49 mm	18 mm	10
ST1A03.50C	€ 0,36	3,50 mm	52 mm	20 mm	10
ST1A03.75C	€ 0,40	3,75 mm	52 mm	20 mm	10
ST1A04.00C	€ 0,40	4,00 mm	55 mm	22 mm	10
ST1A04.25C	€ 0,43	4,25 mm	55 mm	22 mm	10
ST1A04.50C	€ 0,43	4,50 mm	58 mm	24 mm	10
ST1A05.00C	€ 0,52	5,00 mm	62 mm	26 mm	10
ST1A05.50C	€ 0,71	5,50 mm	66 mm	28 mm	10
ST1A06.00C	€ 0,71	6,00 mm	66 mm	28 mm	10





ST1AXR10

STRAIGHT SHANK TWIST DRILL

DIN 338/N, 10 mm reduced shank rolled twist drill, right hand, black finish



HSS



118°



HV=700-740



~8xD

Rc650N/
mm²

Steel



Aluminum

Non-ferr.
alloys

Cast Iron



Emulsion



Lathe



Art.	€	Ø	L	l	Pack
ST1A10.25R10	€ 2,53	10,25 mm	133 mm	87 mm	5
ST1A10.50R10	€ 2,53	10,5 mm	133 mm	87 mm	5
ST1A10.75R10	€ 2,86	10,75 mm	142 mm	94 mm	5
ST1A11.00R10	€ 2,86	11,00 mm	142 mm	94 mm	5
ST1A11.25R10	€ 3,28	11,25 mm	142 mm	94 mm	5
ST1A11.50R10	€ 3,28	11,5 mm	142 mm	94 mm	5
ST1A11.75R10	€ 3,70	11,75 mm	142 mm	94 mm	5
ST1A12.00R10	€ 3,70	12 mm	151 mm	101 mm	5
ST1A12.25R10	€ 4,12	12,25 mm	151 mm	101 mm	5
ST1A12.50R10	€ 4,12	12,50 mm	151 mm	101 mm	5
ST1A12.75R10	€ 4,12	12,75 mm	151 mm	101 mm	5
ST1A13.00R10	€ 4,12	13 mm	151 mm	101 mm	5
ST1A13.25R10	€ 5,20	13,25 mm	160 mm	108 mm	5
ST1A13.50R10	€ 5,20	13,5 mm	160 mm	108 mm	5
ST1A13.75R10	€ 5,20	13,75 mm	160 mm	108 mm	5
ST1A14.00R10	€ 5,20	14,00 mm	160 mm	108 mm	5
ST1A14.25R10	€ 5,70	14,25 mm	169 mm	114 mm	5
ST1A14.50R10	€ 5,70	14,5 mm	169 mm	114 mm	5
ST1A14.75R10	€ 5,70	14,75 mm	169 mm	114 mm	5
ST1A15.00R10	€ 5,70	15 mm	169 mm	114 mm	5
ST1A15.25R10	€ 7,00	15,25 mm	178 mm	120 mm	5
ST1A15.50R10	€ 7,00	15,50 mm	178 mm	120 mm	5
ST1A15.75R10	€ 7,00	15,75 mm	178 mm	120 mm	5
ST1A16.00R10	€ 7,00	16 mm	178 mm	120 mm	5

ST1AXR13

STRAIGHT SHANK TWIST DRILL

DIN 338/N, 13 mm reduced shank rolled twist drill, right hand, black finish



HSS



118°



HV=700-740



~8xD

Rc650N/
mm²

Steel



Aluminum

Non-ferr.
alloys

Cast Iron



Emulsion



Lathe

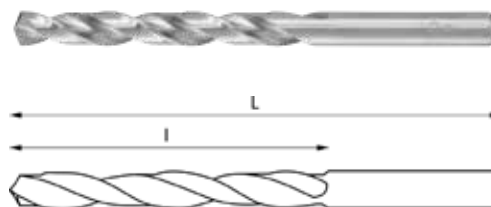
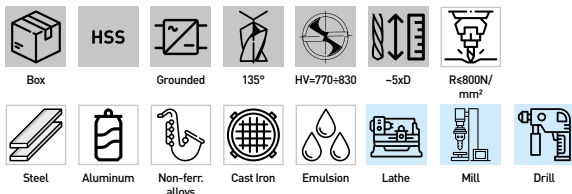


Art.	€	Ø	L	l	Pack
ST1A13.25R13	€ 5,20	13,25 mm	160 mm	108 mm	5
ST1A13.50R13	€ 5,20	13,50 mm	160 mm	108 mm	5
ST1A13.75R13	€ 5,20	13,75 mm	160 mm	108 mm	5
ST1A14.00R13	€ 5,20	14,00 mm	160 mm	108 mm	5
ST1A14.25R13	€ 5,70	14,25 mm	169 mm	114 mm	5
ST1A14.50R13	€ 5,70	14,50 mm	169 mm	114 mm	5
ST1A14.75R13	€ 5,70	14,75 mm	169 mm	114 mm	5
ST1A15.00R13	€ 5,70	15,00 mm	169 mm	114 mm	5
ST1A15.25R13	€ 7,00	15,25 mm	178 mm	120 mm	5
ST1A15.50R13	€ 7,00	15,50 mm	178 mm	120 mm	5
ST1A15.75R13	€ 7,00	15,75 mm	178 mm	120 mm	5
ST1A16.00R13	€ 7,00	16,00 mm	178 mm	120 mm	5

P023-

STRAIGHT SHANK TWIST DRILL

DIN 338/N, Right hand, rectified



Art.	€	ø	L	l	Pack	Art.	€	ø	L	l	Pack	Art.	€	ø	L	l	Pack
P023/00.30	€ 0,39	0.30 mm	19 mm	3 mm	10	P023/03.80	€ 0,85	3.80 mm	75 mm	43 mm	10	P023/07.80	€ 2,42	7.80 mm	117 mm	75 mm	10
P023/00.35	€ 0,39	0.35 mm	19 mm	4 mm	10	P023/03.90	€ 0,85	3.90 mm	75 mm	43 mm	10	P023/07.90	€ 2,42	7.90 mm	117 mm	75 mm	10
P023/00.40	€ 0,39	0.40 mm	20 mm	5 mm	10	P023/04.00	€ 0,99	4.00 mm	75 mm	43 mm	10	P023/08.00	€ 3,20	8.00 mm	117 mm	75 mm	5
P023/00.45	€ 0,39	0.45 mm	20 mm	5 mm	10	P023/04.10	€ 0,93	4.10 mm	75 mm	43 mm	10	P023/08.10	€ 2,75	8.10 mm	117 mm	75 mm	5
P023/00.50	€ 0,39	0.50 mm	22 mm	6 mm	10	P023/04.20	€ 0,93	4.20 mm	75 mm	43 mm	10	P023/08.20	€ 2,75	8.20 mm	117 mm	75 mm	5
P023/00.55	€ 0,39	0.55 mm	24 mm	7 mm	10	P023/04.25	€ 1,35	4.25 mm	75 mm	43 mm	10	P023/08.25	€ 4,09	8.25 mm	117 mm	75 mm	5
P023/00.60	€ 0,39	0.60 mm	24 mm	7 mm	10	P023/04.30	€ 0,99	4.30 mm	80 mm	47 mm	10	P023/08.30	€ 2,75	8.30 mm	117 mm	75 mm	5
P023/00.65	€ 0,39	0.65 mm	26 mm	8 mm	10	P023/04.40	€ 0,99	4.40 mm	80 mm	47 mm	10	P023/08.40	€ 2,75	8.40 mm	117 mm	75 mm	5
P023/00.70	€ 0,39	0.70 mm	28 mm	9 mm	10	P023/04.50	€ 1,17	4.50 mm	80 mm	47 mm	10	P023/08.50	€ 4,02	8.50 mm	117 mm	75 mm	5
P023/00.75	€ 0,39	0.75 mm	28 mm	9 mm	10	P023/04.60	€ 1,16	4.60 mm	80 mm	47 mm	10	P023/08.60	€ 3,19	8.60 mm	125 mm	81 mm	5
P023/00.80	€ 0,39	0.80 mm	30 mm	10 mm	10	P023/04.70	€ 1,16	4.70 mm	80 mm	47 mm	10	P023/08.70	€ 3,19	8.70 mm	125 mm	81 mm	5
P023/00.85	€ 0,39	0.85 mm	30 mm	10 mm	10	P023/04.75	€ 1,35	4.75 mm	80 mm	47 mm	10	P023/08.75	€ 4,37	8.75 mm	125 mm	81 mm	5
P023/00.90	€ 0,39	0.90 mm	32 mm	11 mm	10	P023/04.80	€ 1,16	4.80 mm	86 mm	52 mm	10	P023/08.80	€ 3,19	8.80 mm	125 mm	81 mm	5
P023/00.95	€ 0,39	0.95 mm	32 mm	11 mm	10	P023/04.90	€ 1,16	4.90 mm	86 mm	52 mm	10	P023/08.90	€ 3,19	8.90 mm	125 mm	81 mm	5
P023/01.00	€ 0,89	1.00 mm	34 mm	12 mm	10	P023/05.00	€ 1,25	5.00 mm	86 mm	52 mm	10	P023/09.00	€ 4,19	9.00 mm	125 mm	81 mm	5
P023/01.10	€ 0,47	1.10 mm	36 mm	14 mm	10	P023/05.10	€ 1,44	5.10 mm	86 mm	52 mm	10	P023/09.10	€ 3,53	9.10 mm	125 mm	81 mm	5
P023/01.20	€ 0,47	1.20 mm	38 mm	16 mm	10	P023/05.20	€ 1,44	5.20 mm	86 mm	52 mm	10	P023/09.20	€ 3,53	9.20 mm	125 mm	81 mm	5
P023/01.25	€ 0,89	1.25 mm	38 mm	16 mm	10	P023/05.25	€ 1,70	5.25 mm	86 mm	52 mm	10	P023/09.25	€ 4,91	9.25 mm	125 mm	81 mm	5
P023/01.30	€ 0,47	1.30 mm	38 mm	16 mm	10	P023/05.30	€ 1,44	5.30 mm	86 mm	52 mm	10	P023/09.30	€ 3,53	9.30 mm	125 mm	81 mm	5
P023/01.40	€ 0,47	1.40 mm	40 mm	18 mm	10	P023/05.40	€ 1,44	5.40 mm	93 mm	57 mm	10	P023/09.40	€ 3,53	9.40 mm	125 mm	81 mm	5
P023/01.50	€ 0,81	1.50 mm	40 mm	18 mm	10	P023/05.50	€ 1,60	5.50 mm	93 mm	57 mm	10	P023/09.50	€ 4,45	9.50 mm	125 mm	81 mm	5
P023/01.60	€ 0,52	1.60 mm	43 mm	20 mm	10	P023/05.60	€ 1,51	5.60 mm	93 mm	57 mm	10	P023/09.60	€ 3,95	9.60 mm	133 mm	87 mm	5
P023/01.70	€ 0,52	1.70 mm	43 mm	20 mm	10	P023/05.70	€ 1,51	5.70 mm	93 mm	57 mm	10	P023/09.70	€ 3,95	9.70 mm	133 mm	87 mm	5
P023/01.75	€ 0,71	1.75 mm	46 mm	22 mm	10	P023/05.75	€ 1,88	5.75 mm	93 mm	57 mm	10	P023/09.75	€ 5,30	9.75 mm	133 mm	87 mm	5
P023/01.80	€ 0,52	1.80 mm	46 mm	22 mm	10	P023/05.80	€ 1,51	5.80 mm	93 mm	57 mm	10	P023/09.80	€ 3,95	9.80 mm	133 mm	87 mm	5
P023/01.90	€ 0,52	1.90 mm	46 mm	22 mm	10	P023/05.90	€ 1,51	5.90 mm	93 mm	57 mm	10	P023/09.90	€ 3,95	9.90 mm	133 mm	87 mm	5
P023/02.00	€ 0,71	2.00 mm	49 mm	24 mm	10	P023/06.00	€ 1,70	6.00 mm	93 mm	57 mm	10	P023/10.00	€ 4,81	10.00 mm	133 mm	87 mm	5
P023/02.10	€ 0,57	2.10 mm	49 mm	24 mm	10	P023/06.10	€ 1,56	6.10 mm	101 mm	63 mm	10	P023/10.25	€ 6,70	10.25 mm	133 mm	87 mm	5
P023/02.20	€ 0,57	2.20 mm	53 mm	27 mm	10	P023/06.20	€ 1,56	6.20 mm	101 mm	63 mm	10	P023/10.30	€ 4,94	10.30 mm	133 mm	87 mm	5
P023/02.25	€ 0,81	2.25 mm	53 mm	27 mm	10	P023/06.25	€ 2,41	6.25 mm	101 mm	63 mm	10	P023/10.40	€ 4,94	10.40 mm	133 mm	87 mm	5
P023/02.30	€ 0,57	2.30 mm	53 mm	27 mm	10	P023/06.30	€ 1,56	6.30 mm	101 mm	63 mm	10	P023/10.50	€ 5,90	10.50 mm	133 mm	87 mm	5
P023/02.40	€ 0,57	2.40 mm	57 mm	30 mm	10	P023/06.40	€ 1,56	6.40 mm	101 mm	63 mm	10	P023/10.75	€ 8,10	10.75 mm	142 mm	94 mm	5
P023/02.50	€ 0,71	2.50 mm	57 mm	30 mm	10	P023/06.50	€ 2,14	6.50 mm	101 mm	63 mm	10	P023/11.00	€ 7,00	11.00 mm	142 mm	94 mm	5
P023/02.60	€ 0,68	2.60 mm	57 mm	30 mm	10	P023/06.60	€ 1,89	6.60 mm	101 mm	63 mm	10	P023/11.25	€ 8,50	11.25 mm	142 mm	94 mm	5
P023/02.70	€ 0,68	2.70 mm	61 mm	33 mm	10	P023/06.70	€ 1,89	6.70 mm	101 mm	63 mm	10	P023/11.40	€ 6,20	11.40 mm	142 mm	94 mm	5
P023/02.75	€ 0,89	2.75 mm	61 mm	33 mm	10	P023/06.75	€ 2,77	6.75 mm	109 mm	69 mm	10	P023/11.50	€ 7,40	11.50 mm	142 mm	94 mm	5
P023/02.80	€ 0,68	2.80 mm	61 mm	33 mm	10	P023/06.80	€ 1,89	6.80 mm	109 mm	69 mm	10	P023/11.75	€ 9,30	11.75 mm	142 mm	94 mm	5
P023/02.90	€ 0,68	2.90 mm	61 mm	33 mm	10	P023/06.90	€ 1,89	6.90 mm	109 mm	69 mm	10	P023/12.00	€ 8,10	12.00 mm	151 mm	101 mm	5
P023/03.00	€ 0,81	3.00 mm	61 mm	33 mm	10	P023/07.00	€ 2,59	7.00 mm	109 mm	69 mm	10	P023/12.25	€ 10,10	12.25 mm	151 mm	101 mm	5
P023/03.10	€ 0,81	3.10 mm	65 mm	36 mm	10	P023/07.10	€ 2,16	7.10 mm	109 mm	69 mm	10	P023/12.30	€ 7,60	12.30 mm	151 mm	101 mm	5
P023/03.20	€ 0,81	3.20 mm	65 mm	36 mm	10	P023/07.20	€ 2,16	7.20 mm	109 mm	69 mm	10	P023/12.40	€ 7,60	12.40 mm	151 mm	101 mm	5
P023/03.25	€ 0,99	3.25 mm	65 mm	36 mm	10	P023/07.25	€ 3,03	7.25 mm	109 mm	69 mm	10	P023/12.50	€ 8,80	12.50 mm	151 mm	101 mm	5
P023/03.30	€ 0,89	3.30 mm	65 mm	36 mm	10	P023/07.30	€ 2,16	7.30 mm	109 mm	69 mm	10	P023/12.75	€ 11,40	12.75 mm	151 mm	101 mm	5
P023/03.40	€ 0,89	3.40 mm	70 mm	39 mm	10	P023/07.40	€ 2,16	7.40 mm	109 mm	69 mm	10	P023/13.00	€ 9,50	13.00 mm	151 mm	101 mm	5
P023/03.50	€ 0,89	3.50 mm	70 mm	39 mm	10	P023/07.50	€ 2,67	7.50 mm	109 mm	69 mm	10	P023/14.30	€ 15,30	14.30 mm	165 mm	115 mm	5
P023/03.60	€ 0,85	3.60 mm	70 mm	39 mm	10	P023/07.60	€ 2,42	7.60 mm	117 mm	75 mm	10	P023/14.40	€ 15,30	14.40 mm	165 mm	115 mm	5
P023/03.70	€ 0,85	3.70 mm	70 mm	39 mm	10	P023/07.70	€ 2,42	7.70 mm	117 mm	75 mm	10	P023/16.40	€ 19,80	16.40 mm	170 mm	115 mm	5
P023/03.75	€ 1,07	3.75 mm	70 mm	39 mm	10	P023/07.75	€ 3,38	7.75 mm	117 mm	75 mm	10						

P023/19

€ 36,20

STRAIGHT SHANK TWIST DRILL SET

DIN 338/N, Right hand, rectified



19 Pcs

Size (step 0,5 mm)

1 ÷ 10 mm



P023/25

€ 73,40

STRAIGHT SHANK TWIST DRILL SET

DIN 338/N, Right hand, rectified



25 Pcs

Size (step 0,5 mm)

1 ÷ 13 mm

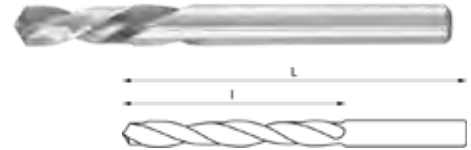




P023-XC

DRILL BIT CYLINDRICAL SHORT SERIES

DIN 1897/N, Right hand, rectified



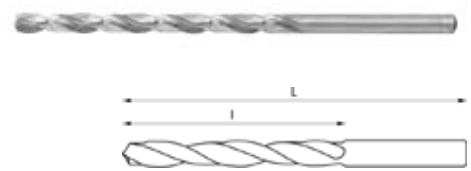
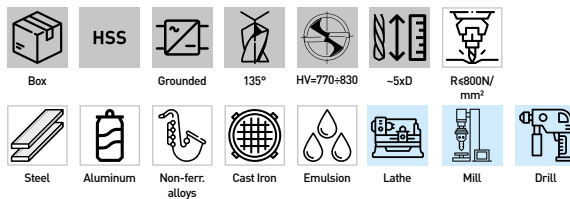
Art.	€	ø	L	l	Pack
P023/03.00C	€ 0,89	3,00 mm	46 mm	16 mm	10
P023/03.25C	€ 0,99	3,25 mm	49 mm	18 mm	10
P023/03.50C	€ 0,99	3,50 mm	52 mm	20 mm	10
P023/03.75C	€ 1,07	3,75 mm	52 mm	20 mm	10
P023/04.00C	€ 1,07	4,00 mm	55 mm	22 mm	10

Art.	€	ø	L	l	Pack
P023/04.25C	€ 1,42	4,25 mm	55 mm	22 mm	10
P023/04.50C	€ 1,25	4,50 mm	58 mm	24 mm	10
P023/05.00C	€ 1,35	5,00 mm	62 mm	26 mm	10
P023/05.50C	€ 1,78	5,50 mm	66 mm	28 mm	10
P023/06.00C	€ 1,88	6,00 mm	66 mm	28 mm	10

P023-XL

LONG TYPE STRAIGHT SHANK TWIST DRILL

DIN 340, Right hand, rectified



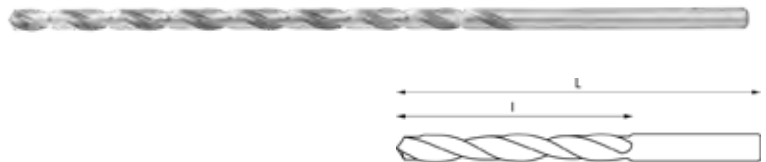
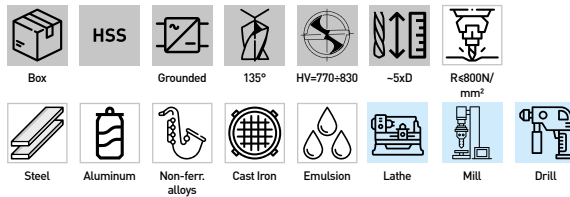
Art.	€	ø	L	l	Pack
P023/01.00L	€ 0,99	1,00 mm	56 mm	33 mm	10
P023/01.25L	€ 0,99	1,25 mm	65 mm	40 mm	10
P023/01.50L	€ 0,99	1,50 mm	70 mm	45 mm	10
P023/01.75L	€ 0,99	1,75 mm	80 mm	53 mm	10
P023/02.00L	€ 0,89	2,00 mm	85 mm	56 mm	10
P023/02.25L	€ 0,99	2,25 mm	90 mm	59 mm	10
P023/02.50L	€ 0,89	2,50 mm	95 mm	62 mm	10
P023/02.75L	€ 1,07	2,75 mm	100 mm	66 mm	10
P023/03.00L	€ 0,99	3,00 mm	100 mm	66 mm	10
P023/03.25L	€ 1,07	3,25 mm	106 mm	69 mm	10
P023/03.50L	€ 1,07	3,50 mm	112 mm	73 mm	10
P023/03.75L	€ 1,25	3,75 mm	112 mm	73 mm	10
P023/04.00L	€ 1,17	4,00 mm	119 mm	78 mm	10
P023/04.25L	€ 1,35	4,25 mm	119 mm	78 mm	10
P023/04.50L	€ 1,35	4,50 mm	126 mm	82 mm	10
P023/04.75L	€ 1,60	4,75 mm	126 mm	82 mm	10
P023/05.00L	€ 1,60	5,00 mm	132 mm	87 mm	10
P023/05.25L	€ 1,96	5,25 mm	132 mm	87 mm	10
P023/05.50L	€ 1,96	5,50 mm	139 mm	91 mm	10
P023/05.75L	€ 2,14	5,75 mm	139 mm	91 mm	10
P023/06.00L	€ 2,14	6,00 mm	139 mm	91 mm	10
P023/06.25L	€ 2,67	6,25 mm	148 mm	97 mm	10

Art.	€	ø	L	l	Pack
P023/06.50L	€ 2,67	6,50 mm	148 mm	97 mm	10
P023/06.75L	€ 2,77	6,75 mm	148 mm	97 mm	10
P023/07.00L	€ 2,77	7,00 mm	156 mm	102 mm	10
P023/07.25L	€ 3,20	7,25 mm	156 mm	102 mm	10
P023/07.50L	€ 3,20	7,50 mm	156 mm	102 mm	10
P023/07.75L	€ 3,84	7,75 mm	165 mm	109 mm	10
P023/08.00L	€ 3,66	8,00 mm	165 mm	109 mm	5
P023/08.25L	€ 5,20	8,25 mm	165 mm	109 mm	5
P023/08.50L	€ 5,20	8,50 mm	165 mm	109 mm	5
P023/08.75L	€ 5,30	8,75 mm	175 mm	115 mm	5
P023/09.00L	€ 5,30	9,00 mm	175 mm	115 mm	5
P023/09.25L	€ 6,10	9,25 mm	175 mm	115 mm	5
P023/09.50L	€ 6,10	9,50 mm	175 mm	115 mm	5
P023/09.75L	€ 6,10	9,75 mm	184 mm	121 mm	5
P023/10.00L	€ 6,10	10,00 mm	184 mm	121 mm	5
P023/10.25L	€ 8,40	10,25 mm	184 mm	121 mm	5
P023/10.50L	€ 8,40	10,50 mm	184 mm	121 mm	5
P023/11.00L	€ 9,90	11,00 mm	195 mm	128 mm	5
P023/11.50L	€ 10,70	11,50 mm	195 mm	128 mm	5
P023/12.00L	€ 12,50	12,00 mm	205 mm	134 mm	5
P023/12.50L	€ 13,80	12,50 mm	205 mm	134 mm	5
P023/13.00L	€ 14,50	13,00 mm	205 mm	134 mm	5

P023-XL1

EXTRA LONG SERIES CYLINDRICAL DRILL BIT

DIN 1869-1 Right hand, rectified



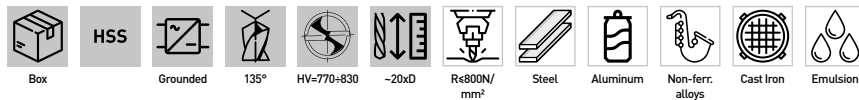
Art.	€	ø	L	l
P023/02.00L1	€ 1,60	02,00 mm	125 mm	85 mm
P023/02.50L1	€ 1,78	02,50 mm	140 mm	95 mm
P023/03.00L1	€ 2,24	03,00 mm	150 mm	100 mm
P023/03.50L1	€ 2,67	03,50 mm	165 mm	115 mm
P023/04.00L1	€ 3,56	04,00 mm	175 mm	120 mm
P023/04.50L1	€ 4,45	04,50 mm	185 mm	125 mm
P023/05.00L1	€ 5,30	05,00 mm	195 mm	135 mm
P023/05.50L1	€ 6,30	05,50 mm	205 mm	140 mm
P023/06.00L1	€ 8,10	06,00 mm	205 mm	140 mm
P023/06.50L1	€ 8,90	06,50 mm	215 mm	150 mm
P023/07.00L1	€ 10,70	07,00 mm	225 mm	155 mm
P023/07.50L1	€ 11,60	07,50 mm	225 mm	155 mm

Art.	€	ø	L	l
P023/08.00L1	€ 14,30	08,00 mm	240 mm	165 mm
P023/08.50L1	€ 16,00	08,50 mm	240 mm	165 mm
P023/09.00L1	€ 17,80	09,00 mm	250 mm	175 mm
P023/09.50L1	€ 19,60	09,50 mm	250 mm	175 mm
P023/10.00L1	€ 22,30	10,00 mm	265 mm	185 mm
P023/10.50L1	€ 24,10	10,50 mm	265 mm	185 mm
P023/11.00L1	€ 26,70	11,00 mm	280 mm	195 mm
P023/11.50L1	€ 29,50	11,50 mm	280 mm	195 mm
P023/12.00L1	€ 31,20	12,00 mm	295 mm	205 mm
P023/12.50L1	€ 33,00	12,50 mm	295 mm	205 mm
P023/13.00L1	€ 34,80	13,00 mm	295 mm	205 mm

P023-XL2

EXTRA LONG SERIES CYLINDRICAL DRILL BIT

DIN 1869-2 Right hand, rectified



Art.	€	ø	L	l
P023/02.00L2	€ 2,24	02,00 mm	160 mm	110 mm
P023/02.50L2	€ 2,67	02,50 mm	180 mm	120 mm
P023/03.00L2	€ 3,20	03,00 mm	190 mm	130 mm
P023/03.50L2	€ 3,56	03,50 mm	210 mm	145 mm
P023/04.00L2	€ 5,30	04,00 mm	220 mm	150 mm
P023/04.50L2	€ 6,30	04,50 mm	235 mm	160 mm
P023/05.00L2	€ 8,10	05,00 mm	245 mm	170 mm
P023/05.50L2	€ 8,90	05,50 mm	260 mm	180 mm
P023/06.00L2	€ 10,70	06,00 mm	260 mm	180 mm
P023/06.50L2	€ 12,50	06,50 mm	275 mm	190 mm
P023/07.00L2	€ 15,20	07,00 mm	290 mm	200 mm
P023/07.50L2	€ 16,00	07,50 mm	290 mm	200 mm
P023/08.00L2	€ 19,60	08,00 mm	305 mm	210 mm
P023/08.50L2	€ 21,40	08,50 mm	305 mm	210 mm
P023/09.00L2	€ 24,10	09,00 mm	320 mm	220 mm
P023/09.50L2	€ 24,90	09,50 mm	320 mm	220 mm
P023/10.00L2	€ 30,30	10,00 mm	340 mm	235 mm
P023/10.50L2	€ 32,10	10,50 mm	340 mm	235 mm
P023/11.00L2	€ 37,40	11,00 mm	365 mm	250 mm
P023/11.50L2	€ 40,10	11,50 mm	365 mm	250 mm
P023/12.00L2	€ 41,90	12,00 mm	375 mm	260 mm
P023/12.50L2	€ 44,50	12,50 mm	375 mm	260 mm
P023/13.00L2	€ 49,00	13,00 mm	375 mm	260 mm

P023-XL3

EXTRA LONG SERIES CYLINDRICAL DRILL BIT

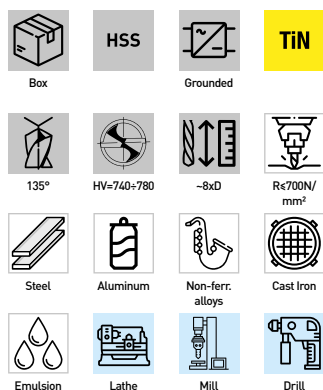
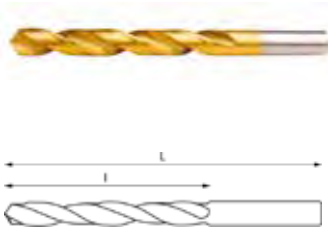
DIN 1869-3 right hand, rectified



Art.	€	ø	L	l
P023/02.00L3	€ 2,67	02,00 mm	200 mm	135 mm
P023/02.50L3	€ 3,13	02,50 mm	225 mm	150 mm
P023/03.00L3	€ 3,56	03,00 mm	240 mm	160 mm
P023/03.50L3	€ 5,30	03,50 mm	265 mm	180 mm
P023/04.00L3	€ 6,30	04,00 mm	280 mm	190 mm
P023/04.50L3	€ 8,10	04,50 mm	295 mm	200 mm
P023/05.00L3	€ 9,90	05,00 mm	315 mm	210 mm
P023/05.50L3	€ 11,60	05,50 mm	330 mm	225 mm
P023/06.00L3	€ 13,40	06,00 mm	330 mm	225 mm
P023/06.50L3	€ 16,00	06,50 mm	350 mm	235 mm
P023/07.00L3	€ 19,60	07,00 mm	370 mm	250 mm
P023/07.50L3	€ 21,40	07,50 mm	370 mm	250 mm
P023/08.00L3	€ 24,90	08,00 mm	390 mm	265 mm
P023/08.50L3	€ 27,70	08,50 mm	390 mm	265 mm
P023/09.00L3	€ 32,10	09,00 mm	410 mm	280 mm
P023/09.50L3	€ 33,00	09,50 mm	410 mm	280 mm
P023/10.00L3	€ 38,40	10,00 mm	430 mm	295 mm
P023/10.50L3	€ 41,00	10,50 mm	430 mm	295 mm
P023/11.00L3	€ 44,50	11,00 mm	455 mm	310 mm
P023/11.50L3	€ 47,30	11,50 mm	455 mm	310 mm
P023/12.00L3	€ 53,40	12,00 mm	480 mm	330 mm
P023/12.50L3	€ 57,90	12,50 mm	480 mm	330 mm
P023/13.00L3	€ 61,50	13,00 mm	480 mm	330 mm

**P058-****STRAIGHT SHANK TWIST DRILL**

DIN 338/N, Right hand, Long durability thanks to the titanium coating



Art.	€	ø	L	l	Pack
P058/01.00	€ 0,72	1 mm	34 mm	12 mm	10
P058/01.25	€ 0,72	1,25 mm	38 mm	16 mm	10
P058/01.50	€ 0,72	1,50 mm	40 mm	18 mm	10
P058/01.75	€ 0,72	1,75 mm	46 mm	22 mm	10
P058/02.00	€ 0,82	2 mm	49 mm	24 mm	10
P058/02.25	€ 0,90	2,25 mm	53 mm	27 mm	10
P058/02.50	€ 0,90	2,50 mm	57 mm	30 mm	10
P058/02.75	€ 0,90	2,75 mm	61 mm	33 mm	10
P058/03.00	€ 0,90	3 mm	61 mm	33 mm	10
P058/03.25	€ 1,09	3,25 mm	65 mm	36 mm	10
P058/03.50	€ 1,09	3,50 mm	70 mm	39 mm	10
P058/03.75	€ 1,09	3,75 mm	70 mm	39 mm	10
P058/04.00	€ 1,09	4 mm	75 mm	43 mm	10
P058/04.25	€ 1,46	4,25 mm	75 mm	43 mm	10
P058/04.50	€ 1,46	4,50 mm	80 mm	47 mm	10
P058/04.75	€ 1,46	4,75 mm	80 mm	47 mm	10
P058/05.00	€ 1,46	5 mm	86 mm	52 mm	10
P058/05.25	€ 1,80	5,25 mm	86 mm	52 mm	10
P058/05.50	€ 1,80	5,50 mm	93 mm	57 mm	10
P058/05.75	€ 1,80	5,75 mm	93 mm	57 mm	10
P058/06.00	€ 1,80	6 mm	93 mm	57 mm	10
P058/06.25	€ 1,99	6,25 mm	101 mm	63 mm	10
P058/06.50	€ 1,99	6,50 mm	101 mm	63 mm	10
P058/06.75	€ 1,99	6,75 mm	109 mm	69 mm	10
P058/07.00	€ 1,99	7 mm	109 mm	69 mm	10
P058/07.25	€ 3,07	7,25 mm	109 mm	69 mm	10
P058/07.50	€ 3,07	7,50 mm	109 mm	69 mm	10
P058/07.75	€ 3,07	7,75 mm	117 mm	75 mm	10
P058/08.00	€ 3,07	8 mm	117 mm	75 mm	10
P058/08.25	€ 4,19	8,25 mm	117 mm	75 mm	5
P058/08.50	€ 4,19	8,50 mm	117 mm	75 mm	5
P058/08.75	€ 4,19	8,75 mm	125 mm	81 mm	5
P058/09.00	€ 4,19	9 mm	125 mm	81 mm	5
P058/09.25	€ 4,83	9,25 mm	125 mm	81 mm	5
P058/09.50	€ 4,83	9,50 mm	125 mm	81 mm	5
P058/09.75	€ 4,83	9,75 mm	133 mm	87 mm	5
P058/10.00	€ 4,83	10 mm	133 mm	87 mm	5
P058/10.25	€ 5,50	10,25 mm	133 mm	87 mm	5
P058/10.50	€ 5,50	10,50 mm	133 mm	87 mm	5
P058/10.75	€ 5,50	10,75 mm	142 mm	94 mm	5
P058/11.00	€ 5,50	11 mm	142 mm	94 mm	5
P058/11.25	€ 6,40	11,25 mm	142 mm	94 mm	5
P058/11.50	€ 6,40	11,50 mm	142 mm	94 mm	5
P058/11.75	€ 6,40	11,75 mm	142 mm	94 mm	5
P058/12.00	€ 6,40	12 mm	151 mm	101 mm	5
P058/12.25	€ 8,00	12,25 mm	151 mm	101 mm	5
P058/12.50	€ 8,00	12,50 mm	151 mm	101 mm	5
P058/12.75	€ 8,00	12,75 mm	151 mm	101 mm	5
P058/13.00	€ 8,00	13 mm	151 mm	101 mm	5

P058/170

€ 177,00

TWIST DRILL SET

DIN 338/N, right hand, long durability thanks to the titanium coating.



150 (10x) Pcs (step 0,5 mm) Ø 1 ÷ 8 mm
20 (5x) Pcs (step 0,5 mm) Ø 8,5 ÷ 10 mm

P010/51

€ 61,00

SERIES OF CYLINDRICAL TIPS TO THE TENTH

DIN 338/N, right hand, long durability thanks to the titanium coating.



Size (step 0,1 mm) 1 ÷ 6 mm

P010/41

€ 142,00

SERIES OF CYLINDRICAL TIPS TO THE TENTH

DIN 338/N, right hand, long durability thanks to the titanium coating.



Size (step 0,1 mm) 6 ÷ 10 mm

P062

€ 67,20

TWIST DRILL SET

DIN 338/N, Right hand, Long durability thanks to the titanium coating



Size (step 0,5 mm) 1 ÷ 13 mm

P061

€ 37,60

STRAIGHT SHANK TWIST DRILL SET

DIN 338/N, right hand, long durability thanks to the titanium coating.



Size (step 0,5 mm) 1 ÷ 10 mm

P068

€ 7,50

TWIST DRILL SET

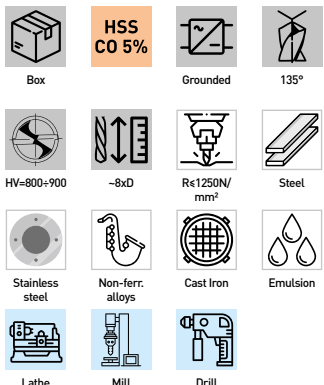
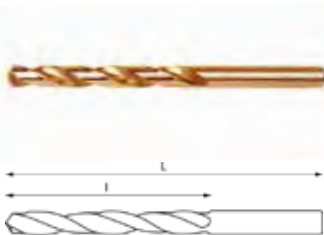
DIN 338/N, Right hand, Long durability thanks to the titanium coating



Sizes x 1 Pc 0.25 - 0.30 - 0.35 - 0.40 - 0.45 - 0.55
- 0.65 - 0.70 - 0.75 - 0.85 - 0.90 - 0.95 mm
Sizes x Pcs 0.50 - 0.60 - 0.80 - 1.00 mm

P065-
COBALT CYLINDRICAL TWIST DRILL

DIN 338/N, self-centering, right, with great thermal resistance



Art.	€	Ø	Total length	Flute length	Pack
P065/01.00	€ 1,02	1 mm	34 mm	12 mm	10
P065/01.25	€ 1,23	1,25 mm	38 mm	16 mm	10
P065/01.50	€ 1,23	1,50 mm	40 mm	18 mm	10
P065/01.75	€ 1,23	1,75 mm	46 mm	22 mm	10
P065/02.00	€ 1,23	2 mm	49 mm	24 mm	10
P065/02.25	€ 1,42	2,25 mm	53 mm	27 mm	10
P065/02.50	€ 1,42	2,50 mm	57 mm	30 mm	10
P065/02.75	€ 1,42	2,75 mm	61 mm	33 mm	10
P065/03.00	€ 1,42	3 mm	61 mm	33 mm	10
P065/03.25	€ 1,95	3,25 mm	69 mm	39 mm	10
P065/03.50	€ 1,95	3,50 mm	70 mm	39 mm	10
P065/03.75	€ 1,95	3,75 mm	70 mm	39 mm	10
P065/04.00	€ 1,95	4 mm	75 mm	43 mm	10
P065/04.25	€ 2,75	4,25 mm	75 mm	43 mm	10
P065/04.50	€ 2,75	4,50 mm	80 mm	47 mm	10
P065/04.75	€ 2,75	4,75 mm	80 mm	47 mm	10
P065/05.00	€ 2,75	5 mm	86 mm	52 mm	10
P065/05.25	€ 3,46	5,25 mm	86 mm	52 mm	10
P065/05.50	€ 3,46	5,50 mm	93 mm	57 mm	10
P065/05.75	€ 3,46	5,75 mm	93 mm	57 mm	10
P065/06.00	€ 3,46	6 mm	93 mm	57 mm	10
P065/06.25	€ 4,27	6,25 mm	101 mm	63 mm	10
P065/06.50	€ 4,27	6,50 mm	101 mm	63 mm	10
P065/06.75	€ 4,27	6,75 mm	109 mm	69 mm	10
P065/07.00	€ 4,27	7 mm	109 mm	69 mm	10
P065/07.25	€ 7,40	7,25 mm	109 mm	69 mm	10
P065/07.50	€ 7,40	7,50 mm	109 mm	69 mm	10
P065/07.75	€ 7,40	7,75 mm	117 mm	75 mm	10
P065/08.00	€ 7,40	8 mm	117 mm	75 mm	5
P065/08.25	€ 9,10	8,25 mm	117 mm	75 mm	5
P065/08.50	€ 9,10	8,50 mm	117 mm	75 mm	5
P065/08.75	€ 9,10	8,75 mm	125 mm	81 mm	5
P065/09.00	€ 9,10	9 mm	125 mm	81 mm	5
P065/09.25	€ 11,50	9,25 mm	125 mm	81 mm	5
P065/09.50	€ 11,50	9,50 mm	125 mm	81 mm	5
P065/09.75	€ 11,50	9,75 mm	133 mm	87 mm	5
P065/10.00	€ 11,50	10 mm	133 mm	87 mm	5
P065/10.25	€ 13,80	10,25 mm	133 mm	87 mm	5
P065/10.50	€ 13,80	10,50 mm	133 mm	87 mm	5
P065/10.75	€ 13,80	10,75 mm	142 mm	94 mm	5
P065/11.00	€ 13,80	11 mm	142 mm	94 mm	5
P065/11.25	€ 16,50	11,25 mm	142 mm	94 mm	5
P065/11.50	€ 16,50	11,50 mm	142 mm	94 mm	5
P065/11.75	€ 16,50	11,75 mm	142 mm	94 mm	5
P065/12.00	€ 16,50	12 mm	151 mm	101 mm	5
P065/12.25	€ 20,00	12,25 mm	151 mm	101 mm	5
P065/12.50	€ 20,00	12,50 mm	151 mm	101 mm	5
P065/12.75	€ 20,00	12,75 mm	151 mm	101 mm	5
P065/13.00	€ 20,00	13 mm	151 mm	101 mm	5

P067

€ 67,20

COBALT TWIST DRILL SET

DIN 338/N, self-centering, right, with great thermal resistance



Size (step 0,5 mm)

1 ÷ 10 mm

P069

€ 132,00

COBALT TWIST DRILL SET

DIN 338/N, self-centering, right, with great thermal resistance



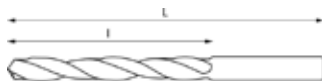
Size (step 0,5 mm)

1 ÷ 13 mm



**P064-****FULLY GROUND FROM THE SOLID TWIST DRILL**

DIN 338/N, self-centering, right, with great thermal resistance



Box

HSS
CO 8%

Grounded



135°



HV=850+900



~8xD

Re1400N/
mm²

Steel

Stainless
steelNon-ferr.
alloys

Stoneware



Emulsion



Lathe



Mill



Drill

Art.	€	Ø	L	l	Pack
P064/01.00	€ 1,42	01.00 mm	34 mm	12 mm	10
P064/01.25	€ 1,42	01.25 mm	38 mm	16 mm	10
P064/01.50	€ 1,42	01.50 mm	40 mm	18 mm	10
P064/01.75	€ 1,42	01.75 mm	46 mm	22 mm	10
P064/02.00	€ 1,42	02.00 mm	49 mm	24 mm	10
P064/02.25	€ 1,65	02.25 mm	53 mm	27 mm	10
P064/02.50	€ 1,65	02.50 mm	57 mm	30 mm	10
P064/02.75	€ 1,65	02.75 mm	61 mm	33 mm	10
P064/03.00	€ 1,65	03.00 mm	61 mm	33 mm	10
P064/03.25	€ 2,26	03.25 mm	69 mm	39 mm	10
P064/03.50	€ 2,26	03.50 mm	70 mm	39 mm	10
P064/03.75	€ 2,26	03.75 mm	70 mm	39 mm	10
P064/04.00	€ 2,26	04.00 mm	75 mm	43 mm	10
P064/04.25	€ 3,18	04.25 mm	75 mm	43 mm	10
P064/04.50	€ 3,18	04.50 mm	80 mm	47 mm	10
P064/04.75	€ 3,18	04.75 mm	80 mm	47 mm	10
P064/05.00	€ 3,18	05.00 mm	86 mm	52 mm	10
P064/05.25	€ 4,02	05.25 mm	86 mm	52 mm	10
P064/05.50	€ 4,02	05.50 mm	93 mm	57 mm	10
P064/05.75	€ 4,02	05.75 mm	93 mm	57 mm	10
P064/06.00	€ 4,02	06.00 mm	93 mm	57 mm	10
P064/06.25	€ 4,89	06.25 mm	101 mm	63 mm	10
P064/06.50	€ 4,89	06.50 mm	101 mm	63 mm	10
P064/06.75	€ 4,89	06.75 mm	109 mm	69 mm	10
P064/07.00	€ 4,89	07.00 mm	109 mm	69 mm	10
P064/07.25	€ 8,50	07.25 mm	109 mm	69 mm	10
P064/07.50	€ 8,50	07.50 mm	109 mm	69 mm	10
P064/07.75	€ 8,50	07.75 mm	117 mm	75 mm	10
P064/08.00	€ 8,50	08.00 mm	117 mm	75 mm	5
P064/08.25	€ 10,60	08.25 mm	117 mm	75 mm	5
P064/08.50	€ 10,60	08.50 mm	117 mm	75 mm	5
P064/08.75	€ 10,60	08.75 mm	125 mm	81 mm	5
P064/09.00	€ 10,60	09.00 mm	125 mm	81 mm	5
P064/09.25	€ 13,30	09.25 mm	125 mm	81 mm	5
P064/09.50	€ 13,30	09.50 mm	125 mm	81 mm	5
P064/09.75	€ 13,30	09.75 mm	133 mm	87 mm	5
P064/10.00	€ 13,30	10.00 mm	133 mm	87 mm	5
P064/10.25	€ 16,00	10.25 mm	133 mm	87 mm	5
P064/10.50	€ 16,00	10.50 mm	133 mm	87 mm	5
P064/10.75	€ 16,00	10.75 mm	142 mm	94 mm	5
P064/11.00	€ 16,00	11.00 mm	142 mm	94 mm	5
P064/11.25	€ 19,10	11.25 mm	142 mm	94 mm	5
P064/11.50	€ 19,10	11.50 mm	142 mm	94 mm	5
P064/11.75	€ 19,10	11.75 mm	142 mm	94 mm	5
P064/12.00	€ 19,10	12.00 mm	151 mm	101 mm	5
P064/12.25	€ 23,20	12.25 mm	151 mm	101 mm	5
P064/12.50	€ 23,20	12.50 mm	151 mm	101 mm	5
P064/12.75	€ 23,20	12.75 mm	151 mm	101 mm	5
P064/13.00	€ 23,20	13.00 mm	151 mm	101 mm	5

P064/19A

€ 81,30

COBALT TWIST DRILL SET

DIN 338/N, self-centering, right, with great thermal resistance.



19 Pcs

Size (step 0,5 mm)

1 ÷ 10 mm

P064/25A

€ 173,00

COBALT TWIST DRILL SET

DIN 338/N, self-centering, right, with great thermal resistance



25 Pcs

Size (step 0,5 mm)

1 ÷ 13 mm



ST2AX
TWIST DRILL WITH CONICAL SHANK

DIN 345/N, right hand



Box



HSS



118°



HV=700-740



~8xD



Re650N/mm²



Steel



Aluminum



Non-ferr. alloys



Cast Iron



Emulsion



Lathe



Mill



Drill press



Art.	€	ø	MT	L	l
ST2A05.75	€ 8,40	5,75 mm	1	138 mm	57 mm
ST2A06	€ 8,40	6,00 mm	1	138 mm	57 mm
ST2A06.25	€ 8,40	6,25 mm	1	144 mm	63 mm
ST2A06.50	€ 8,40	6,50 mm	1	144 mm	63 mm
ST2A06.75	€ 8,40	6,75 mm	1	150 mm	69 mm
ST2A07	€ 8,40	7,00 mm	1	150 mm	69 mm
ST2A07.25	€ 8,40	7,25 mm	1	150 mm	69 mm
ST2A07.50	€ 8,40	7,50 mm	1	150 mm	69 mm
ST2A07.75	€ 8,40	7,75 mm	1	156 mm	75 mm
ST2A08	€ 8,40	8,00 mm	1	156 mm	75 mm
ST2A08.25	€ 8,40	8,25 mm	1	156 mm	75 mm
ST2A08.50	€ 8,40	8,50 mm	1	156 mm	75 mm
ST2A08.75	€ 8,40	8,75 mm	1	156 mm	75 mm
ST2A09	€ 8,40	9,00 mm	1	162 mm	81 mm
ST2A09.25	€ 8,40	9,25 mm	1	162 mm	81 mm
ST2A09.50	€ 8,40	9,50 mm	1	162 mm	81 mm
ST2A09.75	€ 8,40	9,75 mm	1	162 mm	81 mm
ST2A10	€ 8,40	10,00 mm	1	168 mm	81 mm
ST2A10.25	€ 9,70	10,25 mm	1	168 mm	87 mm
ST2A10.50	€ 9,70	10,50 mm	1	168 mm	87 mm
ST2A10.75	€ 9,70	10,75 mm	1	175 mm	87 mm
ST2A11	€ 9,70	11,00 mm	1	175 mm	94 mm
ST2A11.25	€ 9,70	11,25 mm	1	175 mm	94 mm
ST2A11.50	€ 9,70	11,50 mm	1	175 mm	94 mm
ST2A11.75	€ 9,70	11,75 mm	1	175 mm	94 mm
ST2A12	€ 9,70	12,00 mm	1	182 mm	94 mm
ST2A12.25	€ 11,10	12,25 mm	1	182 mm	101 mm
ST2A12.50	€ 11,10	12,50 mm	1	182 mm	101 mm
ST2A12.75	€ 11,10	12,75 mm	1	182 mm	101 mm
ST2A13	€ 11,10	13,00 mm	1	182 mm	101 mm
ST2A13.25	€ 11,10	13,25 mm	1	182 mm	101 mm
ST2A13.50	€ 11,10	13,50 mm	1	189 mm	108 mm
ST2A13.75	€ 11,10	13,75 mm	1	189 mm	108 mm
ST2A14	€ 11,10	14,00 mm	1	189 mm	108 mm
ST2A14.25	€ 11,10	14,25 mm	2	212 mm	114 mm
ST2A14.50	€ 11,10	14,50 mm	2	212 mm	114 mm
ST2A14.75	€ 11,10	14,75 mm	2	212 mm	114 mm
ST2A15	€ 11,10	15,00 mm	2	212 mm	114 mm
ST2A15.25	€ 16,50	15,25 mm	2	218 mm	120 mm
ST2A15.50	€ 16,50	15,50 mm	2	218 mm	120 mm
ST2A15.75	€ 16,50	15,75 mm	2	218 mm	120 mm
ST2A16	€ 16,50	16,00 mm	2	218 mm	120 mm
ST2A16.25	€ 16,50	16,25 mm	2	223 mm	125 mm
ST2A16.50	€ 16,50	16,50 mm	2	223 mm	125 mm
ST2A16.75	€ 16,50	16,75 mm	2	223 mm	125 mm
ST2A17	€ 16,50	17,00 mm	2	223 mm	125 mm
ST2A17.25	€ 16,50	17,25 mm	2	228 mm	130 mm
ST2A17.50	€ 16,50	17,50 mm	2	228 mm	130 mm
ST2A17.75	€ 16,50	17,75 mm	2	228 mm	130 mm
ST2A18	€ 20,20	18,00 mm	2	228 mm	130 mm
ST2A18.25	€ 20,20	18,25 mm	2	233 mm	135 mm
ST2A18.50	€ 20,20	18,50 mm	2	233 mm	135 mm
ST2A18.75	€ 20,20	18,75 mm	2	233 mm	135 mm
ST2A19	€ 20,20	19,00 mm	2	233 mm	135 mm
ST2A19.25	€ 21,40	19,25 mm	2	238 mm	140 mm
ST2A19.50	€ 21,40	19,50 mm	2	238 mm	130 mm
ST2A19.75	€ 21,40	19,75 mm	2	238 mm	140 mm
ST2A20	€ 21,40	20,00 mm	2	238 mm	140 mm
ST2A20.25	€ 21,40	20,25 mm	2	243 mm	145 mm
ST2A20.50	€ 24,80	20,50 mm	2	243 mm	145 mm
ST2A20.75	€ 24,80	20,75 mm	2	243 mm	145 mm
ST2A21	€ 24,80	21,00 mm	2	243 mm	145 mm
ST2A21.25	€ 27,30	21,25 mm	2	248 mm	150 mm
ST2A21.50	€ 27,30	21,50 mm	2	248 mm	150 mm
ST2A21.75	€ 27,30	21,75 mm	2	248 mm	150 mm
ST2A22	€ 27,30	22,00 mm	2	248 mm	150 mm
ST2A22.25	€ 28,70	22,25 mm	2	248 mm	150 mm

Art.	€	ø	MT	L	l
ST2A22.50	€ 28,70	22,50 mm	2	253 mm	155 mm
ST2A22.75	€ 28,70	22,75 mm	2	253 mm	155 mm
ST2A23	€ 28,70	23,00 mm	2	253 mm	155 mm
ST2A23.25	€ 28,70	23,25 mm	3	276 mm	155 mm
ST2A23.50	€ 31,70	23,50 mm	3	276 mm	155 mm
ST2A23.75	€ 31,70	23,75 mm	3	281 mm	160 mm
ST2A24	€ 31,70	24,00 mm	3	281 mm	160 mm
ST2A24.25	€ 35,10	24,25 mm	3	281 mm	160 mm
ST2A24.50	€ 35,10	24,50 mm	3	281 mm	160 mm
ST2A24.75	€ 35,10	24,75 mm	3	281 mm	160 mm
ST2A25	€ 35,10	25,00 mm	3	281 mm	160 mm
ST2A25.25	€ 37,60	25,25 mm	3	281 mm	160 mm
ST2A25.50	€ 37,60	25,50 mm	3	281 mm	160 mm
ST2A25.75	€ 37,60	25,75 mm	3	281 mm	160 mm
ST2A26	€ 37,60	26,00 mm	3	286 mm	165 mm
ST2A26.25	€ 44,50	26,25 mm	3	286 mm	165 mm
ST2A26.50	€ 44,50	26,50 mm	3	286 mm	165 mm
ST2A26.75	€ 44,50	26,75 mm	3	291 mm	170 mm
ST2A27	€ 44,50	27,00 mm	3	291 mm	170 mm
ST2A27.25	€ 44,50	27,25 mm	3	291 mm	170 mm
ST2A27.50	€ 44,50	27,50 mm	3	291 mm	170 mm
ST2A27.75	€ 44,50	27,75 mm	3	291 mm	170 mm
ST2A28	€ 44,50	28,00 mm	3	291 mm	170 mm
ST2A28.25	€ 50,00	28,25 mm	3	296 mm	175 mm
ST2A28.50	€ 50,00	28,50 mm	3	296 mm	175 mm
ST2A28.75	€ 50,00	28,75 mm	3	296 mm	175 mm
ST2A29	€ 50,00	29,00 mm	3	296 mm	175 mm
ST2A29.25	€ 50,00	29,25 mm	3	296 mm	175 mm
ST2A29.50	€ 50,00	29,50 mm	3	296 mm	175 mm
ST2A29.75	€ 50,00	29,75 mm	3	296 mm	175 mm
ST2A30	€ 50,00	30,00 mm	3	296 mm	175 mm
ST2A30.25	€ 50,90	30,25 mm	3	301 mm	180 mm
ST2A30.50	€ 50,90	30,50 mm	3	301 mm	180 mm
ST2A30.75	€ 50,90	30,75 mm	3	301 mm	180 mm
ST2A31	€ 50,90	31,00 mm	3	301 mm	180 mm
ST2A31.25	€ 53,00	31,25 mm	3	301 mm	180 mm
ST2A31.50	€ 53,00	31,50 mm	3	301 mm	180 mm
ST2A31.75	€ 53,00	31,75 mm	4	306 mm	185 mm
ST2A32	€ 53,00	32,00 mm	4	334 mm	185 mm
ST2A32.50	€ 69,60	32,50 mm	4	334 mm	185 mm
ST2A33	€ 69,60	33,00 mm	4	334 mm	185 mm
ST2A33.50	€ 69,60	33,50 mm	4	334 mm	185 mm
ST2A34	€ 69,60	34,00 mm	4	339 mm	190 mm
ST2A34.50	€ 69,60	34,50 mm	4	339 mm	190 mm
ST2A35	€ 69,60	35,00 mm	4	339 mm	190 mm
ST2A35.50	€ 81,30	35,50 mm	4	339 mm	190 mm
ST2A36	€ 81,30	36,00 mm	4	344 mm	195 mm
ST2A36.50	€ 81,30	36,50 mm	4	344 mm	195 mm
ST2A37	€ 81,30	37,00 mm	4	344 mm	195 mm
ST2A37.50	€ 81,30	37,50 mm	4	344 mm	195 mm
ST2A38	€ 81,30	38,00 mm	4	349 mm	200 mm
ST2A38.50	€ 93,60	38,50 mm	4	349 mm	200 mm
ST2A39	€ 93,60	39,00 mm	4	349 mm	200 mm
ST2A39.50	€ 93,60	39,50 mm	4	349 mm	200 mm
ST2A40	€ 93,60	40,00 mm	4	349 mm	200 mm
ST2A40.50	€ 105,00	40,50 mm	4	354 mm	205 mm
ST2A41	€ 105,00	41,00 mm	4	354 mm	205 mm
ST2A41.50	€ 105,00	41,50 mm	4	354 mm	205 mm
ST2A42	€ 105,00	42,00 mm	4	354 mm	205 mm
ST2A42.50	€ 116,00	42,50 mm	4	354 mm	205 mm
ST2A43	€ 116,00	43,00 mm	4	359 mm	210 mm
ST2A43.50	€ 116,00	43,50 mm	4	359 mm	210 mm
ST2A44	€ 116,00	44,00 mm	4	359 mm	210 mm
ST2A44.50	€ 116,00	44,50 mm	4	359 mm	210 mm
ST2A45	€ 129,00	45,00 mm	4	359 mm	210 mm
ST2A45.50	€ 129,00	45,50 mm	4	364 mm	215 mm
ST2A46	€ 129,00	46,00 mm	4	364 mm	215 mm

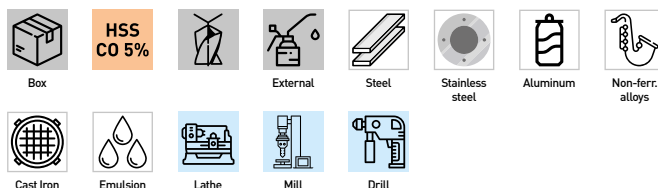
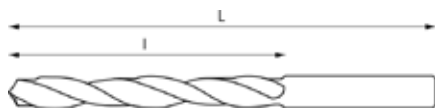
Art.	€	ø	MT	L	l
ST2A46.50	€ 150,00	46,50 mm	4	364 mm	215 mm
ST2A47	€ 150,00	47,00 mm	4	364 mm	215 mm
ST2A47.50	€ 150,00	47,50 mm	4	364 mm	215 mm
ST2A48	€ 150,00	48,00 mm	4	369 mm	220 mm
ST2A48.50	€ 166,00	48,50 mm	4	369 mm	220 mm
ST2A49	€ 166,00	49,00 mm	4	369 mm	220 mm
ST2A49.50	€ 166,00	49,50 mm	4	369 mm	220 mm
ST2A50	€ 169,00	50,00 mm	4	369 mm	220 mm
ST2A50.50	€ 173,00	50,50 mm	4	374 mm	225 mm
ST2A51	€ 179,00	51,00 mm	5	412 mm	225 mm
ST2A51.50	€ 185,00	51,50 mm	5	412 mm	225 mm
ST2A52	€ 195,00	52,00 mm	5	412 mm	225 mm
ST2A53	€ 195,00	53,00 mm	5	412 mm	225 mm
ST2A54	€ 195,00	54,00 mm	5	417 mm	230 mm
ST2A55	€ 195,00	55,00 mm	5	417 mm	230 mm
ST2A56	€ 227,00	56,00 mm	5	417 mm	230 mm
ST2A57	€ 227,00	57,00 mm	5	422 mm	235 mm
ST2A58	€ 227,00	58,00 mm	5	422 mm	235 mm
ST2A59	€ 227,00	59,00 mm	5	422 mm	235 mm
ST2A60	€ 227,00	60,00 mm	5	422 mm	235 mm
ST2A61	€ 271,00	61,00 mm	5	427 mm	240 mm
ST2A62	€ 293,00	62,00 mm	5	427 mm	240 mm
ST2A63	€ 336,00	63,00 mm	5	427 mm	240 mm
ST2A65	€ 336,00	65,00 mm	5	432 mm	245 mm
ST2A66	€ 336,00	66,00 mm	5	432 mm	245 mm
ST2A67	€ 340,00	67,00 mm	5	432 mm	245 mm
ST2A68	€ 349,00	68,00 mm	5	437 mm	250 mm
ST2A69	€ 353,00	69,00 mm	5	437 mm	250 mm
ST2A70	€ 353,00	70,00 mm	5	437 mm	250 mm
ST2A71	€ 353,00	71,00 mm	5	437 mm	250 mm
ST2A72	€ 353,00	72,00 mm	5	442 mm	255 mm
ST2A73	€ 400,00	73,00 mm	5	442 mm	255 mm
ST2A74	€ 400,00	74,00 mm	5	442 mm	255 mm
ST2A75	€ 419,00	75,00 mm	5	442 mm	255 mm
ST2A77	€ 489,00	77,00 mm	6	514 mm	260 mm
ST2A78	€ 642,00	78,00 mm	6	514 mm	2



P081-

PRO NEW

NC SPOTTING DRILL



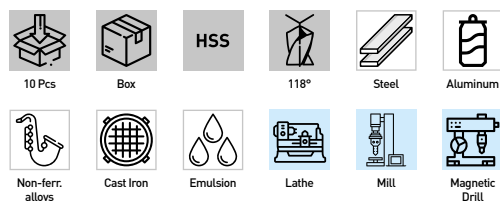
Art.	€	Diameter	l	L
P081/03	€ 6,40	3 mm	12 mm	46 mm
P081/04	€ 8,30	4 mm	12 mm	55 mm
P081/05	€ 10,20	5 mm	15 mm	60 mm
P081/06	€ 12,30	6 mm	20 mm	66 mm
P081/08	€ 17,40	8 mm	25 mm	79 mm
P081/10	€ 22,30	10 mm	25 mm	89 mm
P081/12	€ 31,20	12 mm	30 mm	102 mm
P081/16	€ 50,50	16 mm	35 mm	115 mm
P081/20	€ 70,40	20 mm	40 mm	131 mm

P056/10S

€ 34,70

CENTER DRILL SET

DIN 333, ground, with vaporized grooves. Taper angle 60 °

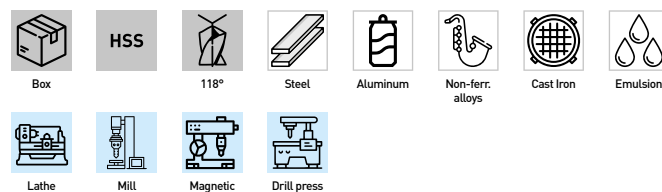


Sizes	0.75 - 1.00 - 1.5 - 1.6 - 2.0 - 2.5 - 3.0 - 3.15 - 4.0 - 5.0 mm
Type	A
Tolerance	K12

P056-

CENTER DRILL

DIN 333, ground, with vaporized grooves. Taper angle 60 °



Art.	€	ø	Stem	Length
P056/1	€ 2,45	1 mm	ø 3 mm	30,5 mm
P056/1.6	€ 2,45	1,6 mm	ø 4 mm	35,5 mm
P056/2	€ 3,67	2 mm	ø 5 mm	40 mm
P056/2.5	€ 3,87	2,5 mm	ø 6,3 mm	45 mm
P056/3.15	€ 4,27	3,15 mm	ø 8 mm	50 mm
P056/4	€ 7,60	4 mm	ø 10 mm	56 mm
P056/5	€ 10,20	5 mm	ø 12,5 mm	63 mm



CORE SAWS

Tools designed for drilling and processing metal materials. These are cylindrical tips with a toothed circular section. They are mounted on the spindle of special tools such as drilling machines, magnetic base drills, and column drills. Unlike cup milling machines, which have a crown that holds the material to be removed inside, these milling machines process the material by chip removal through the side cutters of the tool.



THEORETICAL RPM FOR CORE SAWS DEPENDING ON THE MATERIAL TO BE PROCESSED

Materials to be processed	Saw Type	Saw diameter							Coolant
		12 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 49	50 - 60	
		no. of revolutions (rpm)							
Low alloy construction steel R< 700÷900N/mm2	HSS	700	530	420	340	290	240	170	Emulsion
	HSS-Co5%	875	663	525	425	363	300	213	Emulsion
Alloy steel R< 1100÷1300N/mm2	HSS	470	350	270	230	190	160	120	Emulsion
	HSS-Co5%	588	438	338	288	238	200	150	Emulsion
Stainless steel	HSS	470	350	270	230	190	160	120	Emulsion
	HSS-Co5%	588	438	338	288	238	200	150	Emulsion
Cast iron	HSS	240	180	140	120	100	80	60	No refriger.
Light Alloys	HSS	700	530	420	340	290	240	170	No refriger.
Plastic	HSS	830	620	480	400	340	280	200	No refriger.



**F011-****CORE DRILL WITH WELDON SHANK**

Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing



Hangable



HSS

Re850N/
mm²

Steel



Aluminum

Non-ferr.
alloys

Cast Iron



Emulsion



Mill

Magnetic
Drill

Drill press

Art.	€	Cutting capacity	Ø	Total length
F011/12	€ 23,50	30 mm	12 mm	62 mm
F011/13	€ 24,50	30 mm	13 mm	62 mm
F011/14	€ 28,40	30 mm	14 mm	62 mm
F011/15	€ 29,30	30 mm	15 mm	62 mm
F011/16	€ 31,30	30 mm	16 mm	62 mm
F011/17	€ 32,30	30 mm	17 mm	62 mm
F011/18	€ 34,20	30 mm	18 mm	62 mm
F011/19	€ 35,10	30 mm	19 mm	62 mm
F011/20	€ 36,20	30 mm	20 mm	62 mm
F011/21	€ 36,70	30 mm	21 mm	62 mm
F011/22	€ 38,10	30 mm	22 mm	62 mm
F011/23	€ 39,10	30 mm	23 mm	62 mm
F011/24	€ 41,60	30 mm	24 mm	62 mm
F011/25	€ 43,10	30 mm	25 mm	62 mm
F011/26	€ 48,90	30 mm	26 mm	62 mm
F011/27	€ 50,30	30 mm	27 mm	62 mm
F011/28	€ 51,80	30 mm	28 mm	62 mm
F011/29	€ 53,30	30 mm	29 mm	62 mm
F011/30	€ 54,70	30 mm	30 mm	62 mm
F011/31	€ 57,10	30 mm	31 mm	62 mm
F011/32	€ 58,70	30 mm	32 mm	62 mm
F011/33	€ 60,40	30 mm	33 mm	62 mm
F011/34	€ 62,10	30 mm	34 mm	62 mm
F011/35	€ 63,50	30 mm	35 mm	62 mm
F011/36	€ 65,30	30 mm	36 mm	62 mm
F011/37	€ 67,00	30 mm	37 mm	62 mm
F011/38	€ 69,20	30 mm	38 mm	62 mm
F011/39	€ 71,20	30 mm	39 mm	62 mm
F011/40	€ 72,40	30 mm	40 mm	62 mm
F011/41	€ 83,60	30 mm	41 mm	62 mm
F011/42	€ 85,50	30 mm	42 mm	62 mm
F011/43	€ 87,00	30 mm	43 mm	62 mm
F011/44	€ 88,90	30 mm	44 mm	62 mm
F011/45	€ 104,00	30 mm	45 mm	62 mm
F011/46	€ 106,00	30 mm	46 mm	62 mm
F011/47	€ 108,00	30 mm	47 mm	62 mm
F011/48	€ 111,00	30 mm	48 mm	62 mm
F011/49	€ 113,00	30 mm	49 mm	62 mm
F011/50	€ 115,00	30 mm	50 mm	62 mm
F011/51	€ 125,00	30 mm	51 mm	62 mm
F011/52	€ 127,00	30 mm	52 mm	62 mm
F011/53	€ 129,00	30 mm	53 mm	62 mm
F011/54	€ 132,00	30 mm	54 mm	62 mm
F011/55	€ 137,00	30 mm	55 mm	62 mm
F011/60	€ 160,00	30 mm	60 mm	62 mm

F011/6

€ 185,00

WELDON SHANK CORE DRILL SET

Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing.



Steel



Aluminum

Non-ferr.
alloys

Cast Iron



Emulsion



Mill

Magnetic
Drill

Drill press



Steel



Aluminum

Non-ferr.
alloys

Cast Iron



Emulsion



Mill

Magnetic
Drill

Drill press

Sizes	12 x 62 - 14 x 62 - 16 x 62 - 18 x 62 - 20 x 62 - 22 x 62 mm
Cutting capacity	30 mm
Shank	Weldon 19,05 mm

F011-XP**TWIST DRILLS WELDON SHANK**

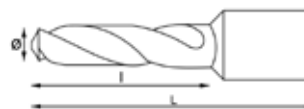
Hangable



HSS



135°

Re850N/
mm²

Steel



Aluminum

Non-ferr.
alloys

Cast Iron



Emulsion



Mill

Magnetic
Drill

Drill press

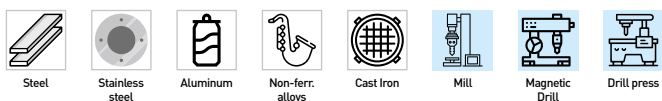
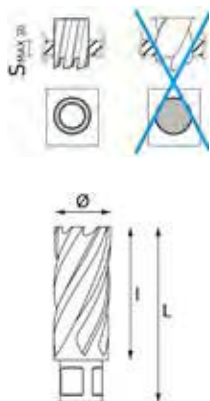
Art.	€	Ø	L	L
F011/006P	€ 28,70	6 mm	30 mm	62 mm
F011/007P	€ 28,70	7 mm	30 mm	62 mm
F011/008P	€ 28,70	8 mm	30 mm	62 mm
F011/009P	€ 31,70	9 mm	30 mm	62 mm
F011/010P	€ 31,70	10 mm	30 mm	62 mm
F011/011P	€ 34,70	11 mm	30 mm	62 mm

F002-

PRO

CORE DRILL WITH WELDON SHANK

Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing



Art.	€	Ø	Cutting capacity	Total length
F002/12	€ 38,90	12 mm	30 mm	62 mm
F002/13	€ 41,10	13 mm	30 mm	62 mm
F002/14	€ 44,90	14 mm	30 mm	62 mm
F002/15	€ 48,90	15 mm	30 mm	62 mm
F002/16	€ 50,80	16 mm	30 mm	62 mm
F002/17	€ 50,80	17 mm	30 mm	62 mm
F002/18	€ 50,80	18 mm	30 mm	62 mm
F002/19	€ 51,80	19 mm	30 mm	62 mm
F002/20	€ 53,80	20 mm	30 mm	62 mm
F002/21	€ 55,70	21 mm	30 mm	62 mm
F002/22	€ 57,70	22 mm	30 mm	62 mm
F002/23	€ 59,10	23 mm	30 mm	62 mm
F002/24	€ 62,60	24 mm	30 mm	62 mm
F002/25	€ 64,50	25 mm	30 mm	62 mm
F002/26	€ 74,20	26 mm	30 mm	62 mm
F002/27	€ 77,30	27 mm	30 mm	62 mm
F002/28	€ 79,20	28 mm	30 mm	62 mm
F002/29	€ 80,10	29 mm	30 mm	62 mm
F002/30	€ 83,10	30 mm	30 mm	62 mm
F002/31	€ 87,00	31 mm	30 mm	62 mm
F002/32	€ 90,00	32 mm	30 mm	62 mm
F002/33	€ 96,80	33 mm	30 mm	62 mm
F002/34	€ 102,00	34 mm	30 mm	62 mm
F002/35	€ 105,00	35 mm	30 mm	62 mm
F002/36	€ 109,00	36 mm	30 mm	62 mm
F002/37	€ 114,00	37 mm	30 mm	62 mm
F002/38	€ 118,00	38 mm	30 mm	62 mm
F002/39	€ 123,00	39 mm	30 mm	62 mm
F002/40	€ 127,00	40 mm	30 mm	62 mm
F002/41	€ 132,00	41 mm	30 mm	62 mm
F002/42	€ 138,00	42 mm	30 mm	62 mm
F002/43	€ 141,00	43 mm	30 mm	62 mm
F002/44	€ 148,00	44 mm	30 mm	62 mm
F002/45	€ 158,00	45 mm	30 mm	62 mm
F002/46	€ 160,00	46 mm	30 mm	62 mm
F002/47	€ 164,00	47 mm	30 mm	62 mm
F002/48	€ 167,00	48 mm	30 mm	62 mm
F002/49	€ 172,00	49 mm	30 mm	62 mm
F002/50	€ 176,00	50 mm	30 mm	62 mm
F002/55	€ 205,00	55 mm	30 mm	62 mm
F002/60	€ 317,00	60 mm	30 mm	62 mm

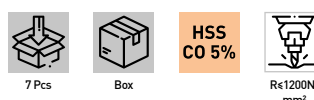
F002/6

PRO

€ 283,00

WELDON SHANK CORE DRILL SET

Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing.

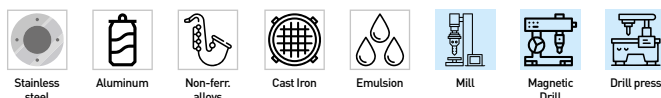
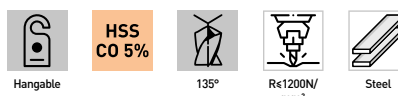
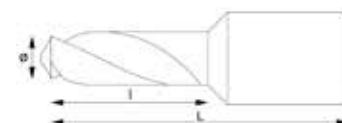


Sizes 12 x 62 - 14 x 62 - 16 x 62 - 18 x 62 - 20 x 62 - 22 x 62 mm
Shank Weldon 19,05 mm

F002-XP

PRO

TWIST DRILLS WELDON SHANK



Art.	€	Ø	l	L
F002/006P	€ 26,70	6 mm	30 mm	62.50 mm
F002/007P	€ 26,70	7 mm	30 mm	62.50 mm
F002/008P	€ 26,70	8 mm	30 mm	62.50 mm
F002/009P	€ 26,70	9 mm	30 mm	62.50 mm
F002/010P	€ 26,70	10 mm	30 mm	62.50 mm
F002/011P	€ 26,70	11 mm	30 mm	62.50 mm

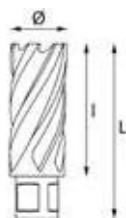


F002-XL

PRO

LONG TYPE CORE DRILL WITH WELDON SHANK

Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing



HSS
CO 5%

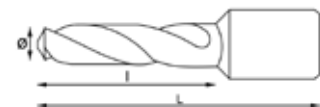


Art.	€	Ø	Cutting capacity	Total length
F002/12L	€ 54,70	12 mm	50 mm	85 mm
F002/13L	€ 55,70	13 mm	50 mm	85 mm
F002/14L	€ 65,50	14 mm	50 mm	85 mm
F002/15L	€ 66,50	15 mm	50 mm	85 mm
F002/16L	€ 71,40	16 mm	50 mm	85 mm
F002/17L	€ 74,20	17 mm	50 mm	85 mm
F002/18L	€ 77,30	18 mm	50 mm	85 mm
F002/19L	€ 79,20	19 mm	50 mm	85 mm
F002/20L	€ 81,10	20 mm	50 mm	85 mm
F002/21L	€ 83,10	21 mm	50 mm	85 mm
F002/22L	€ 85,00	22 mm	50 mm	85 mm
F002/23L	€ 87,00	23 mm	50 mm	85 mm
F002/24L	€ 91,90	24 mm	50 mm	85 mm
F002/25L	€ 93,80	25 mm	50 mm	85 mm
F002/26L	€ 109,00	26 mm	50 mm	85 mm
F002/27L	€ 111,00	27 mm	50 mm	85 mm
F002/28L	€ 114,00	28 mm	50 mm	85 mm
F002/29L	€ 116,00	29 mm	50 mm	85 mm
F002/30L	€ 118,00	30 mm	50 mm	85 mm
F002/31L	€ 125,00	31 mm	50 mm	85 mm
F002/32L	€ 128,00	32 mm	50 mm	85 mm
F002/33L	€ 129,00	33 mm	50 mm	85 mm
F002/34L	€ 133,00	34 mm	50 mm	85 mm
F002/35L	€ 135,00	35 mm	50 mm	85 mm
F002/36L	€ 140,00	36 mm	50 mm	85 mm
F002/37L	€ 141,00	37 mm	50 mm	85 mm
F002/38L	€ 146,00	38 mm	50 mm	85 mm
F002/39L	€ 150,00	39 mm	50 mm	85 mm
F002/40L	€ 151,00	40 mm	50 mm	85 mm
F002/41L	€ 176,00	41 mm	50 mm	85 mm
F002/42L	€ 179,00	42 mm	50 mm	85 mm
F002/43L	€ 183,00	43 mm	50 mm	85 mm
F002/44L	€ 186,00	44 mm	50 mm	85 mm
F002/45L	€ 223,00	45 mm	50 mm	85 mm
F002/46L	€ 226,00	46 mm	50 mm	85 mm
F002/47L	€ 229,00	47 mm	50 mm	85 mm
F002/48L	€ 233,00	48 mm	50 mm	85 mm
F002/49L	€ 237,00	49 mm	50 mm	85 mm
F002/50L	€ 241,00	50 mm	50 mm	85 mm
F002/55L	€ 284,00	55 mm	50 mm	85 mm
F002/60L	€ 328,00	60 mm	50 mm	85 mm

F002-XPL

PRO

LONG TWIST DRILLS WELDON SHANK



HSS
CO 5%



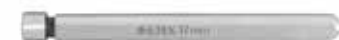
Art.	€	Ø	L	L
F002/006PL	€ 34,70	6 mm	55 mm	86.50 mm
F002/007PL	€ 34,70	7 mm	55 mm	86.50 mm
F002/008PL	€ 34,70	8 mm	55 mm	86.50 mm
F002/009PL	€ 34,70	9 mm	55 mm	86.50 mm
F002/010PL	€ 34,70	10 mm	55 mm	86.50 mm
F002/011PL	€ 34,70	11 mm	55 mm	86.50 mm

F002/P

PRO € 7,80

PILOT PIN

For weldon shank core drills



Dimensions 6,35 x 77 mm

F002/PL

PRO € 9,70

PILOT PIN

For weldon shank long type core drills



Dimensions 6,35 x 102 mm

CUP SAWS WITH HARD METAL INSERTS



The variable hard metal tooth geometry enables cutting of pipes, profiles and sheets made of stainless steel, high-alloy steel. Max cut thickness: 5 mm

THEORETICAL RPM FOR CUP SAWS WITH HARD METAL INSERTS DEPENDING ON THE MATERIAL TO BE PROCESSED

Materials to be processed	Saw diameter							Coolant
	15 - 20	21 - 25	26 - 30	31 - 40	41 - 50	51 - 70	71 -100	
	no. of revolutions (rpm)							
Alloy steel R< 1100÷1300N/mm2	530	420	340	270	210	160	100	Emulsion
Stainless steel	530	420	340	270	210	160	100	Emulsion
Aluminium	880	690	570	450	350	270	190	Emulsion

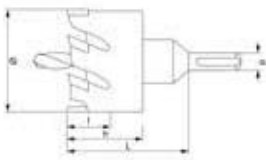




F019-

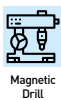
TCT CORE DRILL

With lateral chip and center drill



C45

HM



Art.	€	ø	h	d	L	Cutting Depth	Thread
F019/015	€ 12,50	15 mm	28 mm	10 mm	50 mm	5 mm	-
F019/016	€ 13,40	16 mm	28 mm	10 mm	50 mm	5 mm	-
F019/017	€ 14,30	17 mm	28 mm	10 mm	50 mm	5 mm	-
F019/018	€ 15,20	18 mm	28 mm	10 mm	50 mm	5 mm	-
F019/019	€ 16,00	19 mm	28 mm	10 mm	50 mm	5 mm	-
F019/020	€ 17,00	20 mm	28 mm	10 mm	50 mm	5 mm	-
F019/021	€ 17,80	21 mm	28 mm	10 mm	50 mm	5 mm	-
F019/022	€ 18,80	22 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/023	€ 19,60	23 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/024	€ 20,50	24 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/025	€ 21,40	25 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/026	€ 22,30	26 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/027	€ 23,20	27 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/028	€ 24,10	28 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/029	€ 24,90	29 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/030	€ 25,90	30 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/031	€ 26,70	31 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/032	€ 27,70	32 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/033	€ 28,50	33 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/034	€ 29,50	34 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/035	€ 30,30	35 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/036	€ 31,20	36 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/037	€ 32,10	37 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/038	€ 33,00	38 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/039	€ 33,80	39 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/040	€ 34,80	40 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/041	€ 35,10	41 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/042	€ 36,10	42 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/043	€ 36,90	43 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/044	€ 37,40	44 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/045	€ 38,40	45 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/046	€ 39,20	46 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/047	€ 40,10	47 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/048	€ 41,00	48 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/049	€ 41,90	49 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/050	€ 42,70	50 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/051	€ 43,70	51 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/052	€ 44,50	52 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/053	€ 45,50	53 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/054	€ 46,30	54 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/055	€ 47,30	55 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/056	€ 48,10	56 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/057	€ 49,00	57 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/058	€ 49,90	58 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/059	€ 50,80	59 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/060	€ 51,60	60 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/065	€ 59,70	65 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/070	€ 63,30	70 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/075	€ 67,70	75 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/080	€ 72,20	80 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/085	€ 76,60	85 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/090	€ 81,90	90 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/095	€ 86,40	95 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/100	€ 90,80	100 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5

F019/006

€ 99,60

TCT CORE DRILL SET

With lateral chip and center drill.



C45

HM



Sizes

16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 30 mm

Cutting Depth

5 mm

F019/008

€ 141,00

TCT CORE DRILL SET

With lateral chip and center drill.



C45

HM



Sizes

16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 30 mm, 32 mm, 35 mm

Cutting Depth

5 mm

F019/005

€ 1,88

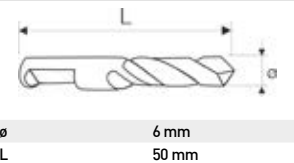
CENTER DRILL

For item F019-



HSS

HM



ø 6 mm
L 50 mm

F019/007

€ 0,23

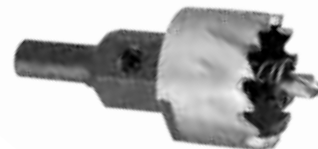
SPRING

For item F019-



HSS CUP SAWS

Equipped with chip breaker side cut. Precision drilling of steel sheets, light alloys and metal materials in general. Drilling depth up to 5 mm.



THEORETICAL RPM FOR CORE SAWS DEPENDING ON THE MATERIAL TO BE PROCESSED

Materials to be processed	Saw diameter												Coolant
	12-17	18-24	25-32	33-38	39-44	45-51	52-57	58-64	65-70	71-80	81-90	91-100	
	no. of revolutions (rpm)												
Low alloy construction steel R< 700÷900N/mm2	550	380	300	240	200	170	150	130	120	110	100	90	Emulsion
Alloy steel R< 1100÷1300N/mm2	230	160	130	100	80	70	60	60	50	50	40	40	Emulsion
Stainless steel	230	160	130	100	80	70	60	60	50	50	40	40	Emulsion
Cast iron	280	190	150	120	100	90	80	70	60	60	50	40	No refriger.
Light Alloys	870	590	470	370	310	270	240	210	190	170	150	140	Emulsion
Aluminium	870	590	470	370	310	270	240	210	190	170	150	140	Emulsion
Plastic	660	450	350	280	240	210	180	160	150	130	120	100	Water No refrigeration

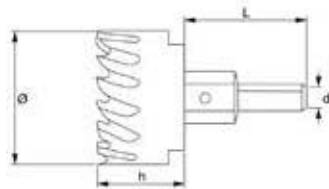




F015-

DRILL BIT HOLE SAW

With lateral chip and center drill



Hangable



HSS



R<800N/
mm²



Steel



Stainless
steel



Aluminum



Non-ferr.
alloys



Plastic



Cast Iron



Emulsion



Mill



Drill

Art.	€	Ø	h	d	L	Thread
F015/012	€ 10,30	12 mm	23 mm	8 mm	56 mm	M10 x 1,25
F015/013	€ 10,30	13 mm	23 mm	8 mm	56 mm	M10 x 1,25
F015/014	€ 10,80	14 mm	23 mm	8 mm	56 mm	M10 x 1,25
F015/015	€ 10,80	15 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/016	€ 10,80	16 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/017	€ 10,80	17 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/018	€ 10,80	18 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/019	€ 11,30	19 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/020	€ 11,80	20 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/021	€ 12,20	21 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/022	€ 12,70	22 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/023	€ 13,80	23 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/024	€ 14,10	24 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/025	€ 14,60	25 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/026	€ 15,60	26 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/027	€ 16,00	27 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/028	€ 16,50	28 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/029	€ 17,00	29 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/030	€ 17,30	30 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/031	€ 17,80	31 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/032	€ 18,80	32 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/033	€ 18,80	33 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/034	€ 19,70	34 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/035	€ 20,70	35 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/036	€ 21,60	36 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/037	€ 21,60	37 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/038	€ 22,10	38 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/039	€ 24,00	39 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/040	€ 24,00	40 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/041	€ 24,50	41 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/042	€ 24,50	42 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/043	€ 25,40	43 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/044	€ 25,90	44 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/045	€ 27,30	45 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/046	€ 27,30	46 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/047	€ 27,80	47 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/048	€ 29,60	48 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/049	€ 30,00	49 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/050	€ 30,00	50 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/051	€ 36,70	51 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/052	€ 36,70	52 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/053	€ 37,60	53 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/054	€ 39,50	54 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/055	€ 39,50	55 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/056	€ 40,40	56 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/057	€ 40,40	57 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/058	€ 42,30	58 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/059	€ 44,20	59 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/060	€ 44,20	60 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/065	€ 56,40	65 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/070	€ 60,20	70 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/075	€ 64,80	75 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/080	€ 71,50	80 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/085	€ 81,80	85 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/090	€ 90,20	90 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/095	€ 97,70	95 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/100	€ 103,00	100 mm	23 mm	12 mm	56 mm	M16 x 1,5

F015/006S

€ 99,60

DRILL BIT HOLE SAW SET

With lateral chip and center drill.



6 Pcs



Carrying
case



HSS



R<800N/
mm²



Steel



Sizes

16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 30 mm

F015/008S

€ 141,00

DRILL BIT HOLE SAW SET

With lateral chip and center drill.



8 Pcs



Carrying
case



HSS



R<800N/
mm²



Steel



Sizes

16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 30 mm, 32 mm, 35 mm

F015-A

DRILL BIT HOLE SAW ARBOR

For item F015-



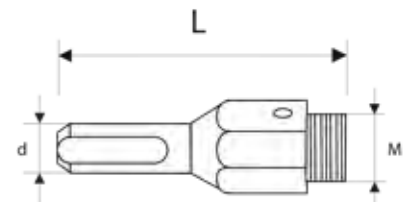
Hangable



Mill



Drill



Art.	€	Ø	d	L	Thread
F015/001	€ 3,29	12 - 14 mm	8 mm	56 mm	M10 x 1,25
F015/002	€ 3,29	15-34 mm	10 mm	56 mm	M12 x 1,25
F015/003	€ 4,71	35-50 mm	10 mm	56 mm	M14 x 1,5
F015/004	€ 4,71	51-100 mm	12 mm	60 mm	M16 x 1,5

F015/005

€ 1,88

CENTER DRILL

For item F015-



Box



HSS



Ø 6 mm
L 50 mm

F015/007

€ 0,23

SPRING

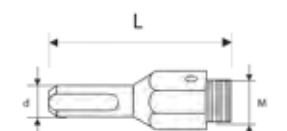
For item F015-



Box



Steel



BI-METAL CUP SAW

Equipped with variable toothting for cutting thin material such as steel, cast iron, aluminium, copper, bronze, brass, wood, plastic, fibreglass and plasterboard.



THEORETICAL RPM FOR CORE SAWS DEPENDING ON THE MATERIAL TO BE PROCESSED

Materials to be processed	Saw diameter																Coolant
	14 - 17	19 - 24	25 - 32	33 - 38	40 - 44	46 - 51	52 - 57	59 - 64	65 - 70	73 - 79	83 - 89	92 - 98	102 - 108	111 - 121	127 - 140	146 - 152	
	no. of revolutions (rpm)																
Low alloy construction steel R< 700÷900N/mm2	530	360	280	230	190	170	140	130	120	110	90	80	80	70	60	50	Emulsion
Alloy steel R< 1100÷1300N/mm2	210	140	110	90	80	70	60	50	50	40	40	30	30	30	20	20	Emulsion
Stainless steel	210	140	110	90	80	70	60	50	50	40	40	30	30	30	20	20	Emulsion
Cast iron	250	180	170	140	110	90	70	60	60	50	40	40	40	30	30	30	No refriger.
Brass	740	510	400	320	270	230	200	180	170	150	130	120	110	100	80	70	"Emulsion Oil"
Aluminium and light alloys	850	580	450	360	300	270	230	210	190	170	150	130	120	110	100	80	Emulsion
Wood	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	No refriger.
Plastic	640	430	340	270	230	200	170	150	140	130	110	100	90	80	70	60	No refriger.
Plasterboard	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	No refriger.



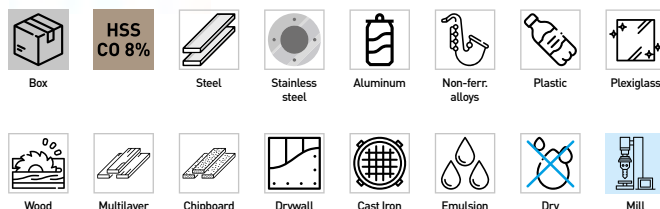


0278-

PRO

BIMETAL HOLE SAWS WITH VARIABLE TEETH

Thanks to the geometry of the variable toothing, it is possible to perform rapid and precise cuts as well as greater heat dispersion during cutting for less wear of the teeth. Furthermore, there is a considerable reduction of seizure



Art.	€	ø	ø inch
0278/014	€ 5,30	14 mm	9/16
0278/016	€ 5,30	16 mm	5/8
0278/017	€ 5,30	17 mm	11/16
0278/019	€ 5,70	19 mm	3/4
0278/020	€ 5,70	20 mm	25/32
0278/021	€ 6,10	21 mm	13/16
0278/022	€ 6,10	22 mm	7/8
0278/024	€ 6,40	24 mm	15/16
0278/025	€ 6,40	25 mm	1
0278/027	€ 7,00	27 mm	1-1/16
0278/029	€ 7,00	29 mm	1-1/8
0278/030	€ 8,30	30 mm	1-3/16
0278/032	€ 8,30	32 mm	1-1/4
0278/033	€ 8,50	33 mm	1-5/16
0278/035	€ 9,00	35 mm	1-3/8
0278/037	€ 9,50	37 mm	1-7/16
0278/038	€ 9,50	38 mm	1-1/2
0278/040	€ 9,70	40 mm	1-9/16
0278/041	€ 9,90	41 mm	1-5/8
0278/043	€ 9,90	43 mm	1-11/16
0278/044	€ 10,80	44 mm	1-3/4
0278/046	€ 10,80	46 mm	1-13/16
0278/048	€ 11,10	48 mm	1-7/8
0278/051	€ 11,40	51 mm	2
0278/052	€ 12,70	52 mm	2-1/16
0278/054	€ 12,70	54 mm	2-1/8
0278/057	€ 12,70	57 mm	2-1/4
0278/059	€ 13,10	59 mm	2-5/16
0278/060	€ 13,10	60 mm	2-3/8
0278/064	€ 14,10	64 mm	2-1/2
0278/065	€ 14,10	65 mm	2-9/16
0278/067	€ 15,20	67 mm	2-5/8
0278/068	€ 15,20	68 mm	2-11/16
0278/070	€ 15,20	70 mm	2-3/4
0278/073	€ 16,70	73 mm	2-7/8
0278/076	€ 16,70	76 mm	3
0278/079	€ 17,70	79 mm	3-1/8
0278/083	€ 18,80	83 mm	3-1/4
0278/085	€ 18,80	85 mm	3-3/8
0278/089	€ 20,40	89 mm	3-1/2
0278/092	€ 20,90	92 mm	3-5/8
0278/095	€ 21,70	95 mm	3-3/4
0278/098	€ 21,70	98 mm	3-7/8
0278/102	€ 21,90	102 mm	4
0278/105	€ 22,30	105 mm	4-1/8
0278/108	€ 23,00	108 mm	4-1/4
0278/111	€ 23,70	111 mm	4-3/8
0278/114	€ 24,80	114 mm	4-1/2
0278/121	€ 25,90	121 mm	4-3/4
0278/127	€ 28,00	127 mm	5
0278/140	€ 37,80	140 mm	5-1/2
0278/152	€ 44,00	152 mm	6

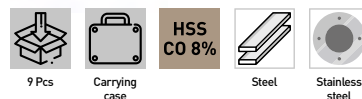
0278/002S

PRO

€ 95,90

HOLE SAW SET

Electrician kit



Hole saw	22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	35 - 44 mm
Corresponding arbors, adapter, bits	0712/800
Hole saw	51 - 64 mm
Corresponding arbors, adapter, bits	0712/900

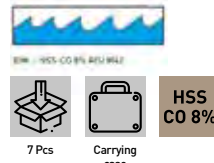
0278/005S

PRO

€ 62,90

HOLE SAW SET

Repairman set



Hole saw	22 - 25 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	32 - 38 mm
Corresponding arbors, adapter, bits	0712/900

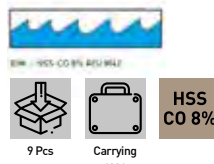
0278/008S

PRO

€ 91,20

HOLE SAW SET

Plumber set



Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	38 - 44 - 57 mm
Corresponding arbors, adapter, bits	0712/800 - 0712/900

0278/009S

PRO

€ 108,00

HOLE SAW SET

Installer set



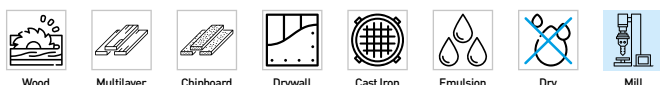
Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600 - 0712/900 - 0712/300
Hole saw	35 - 38 - 44 - 51 - 57 - 64 mm
Corresponding arbors, adapter, bits	0712/800

0712-
BIMETAL HOLE SAWS WITH VARIABLE TEETH

Thanks to the geometry of the variable toothing, it is possible to perform rapid and precise cuts as well as greater heat dispersion during cutting for less wear of the teeth. Furthermore, there is a considerable reduction of seizure



BIM - HSS M3 (1)
Var. Z 4-6



Art.	€	ø	ø inch
0712/014	€ 4,91	14 mm	9/16
0712/016	€ 4,91	16 mm	5/8
0712/017	€ 4,91	17 mm	11/16
0712/019	€ 4,91	19 mm	3/4
0712/020	€ 4,91	20 mm	25/32
0712/021	€ 4,91	21 mm	13/16
0712/022	€ 7,00	22 mm	7/8
0712/024	€ 7,00	24 mm	15/16
0712/025	€ 7,00	25 mm	1
0712/027	€ 7,00	27 mm	1-1/16
0712/029	€ 7,00	29 mm	1-1/8
0712/030	€ 7,10	30 mm	1-3/16
0712/032	€ 7,10	32 mm	1-1/4
0712/033	€ 7,10	33 mm	1-5/16
0712/035	€ 9,10	35 mm	1-3/8
0712/037	€ 9,10	37 mm	1-7/16
0712/038	€ 9,10	38 mm	1-1/2
0712/040	€ 9,10	40 mm	1-9/16
0712/041	€ 9,10	41 mm	1-5/8
0712/043	€ 9,10	43 mm	1-11/16
0712/044	€ 9,10	44 mm	1-3/4
0712/046	€ 9,10	46 mm	1-13/16
0712/048	€ 9,10	48 mm	1-7/8
0712/051	€ 9,10	51 mm	2
0712/052	€ 10,70	52 mm	2-1/16
0712/054	€ 10,70	54 mm	2-1/8
0712/057	€ 10,70	57 mm	2-1/4
0712/059	€ 10,70	59 mm	2-5/16
0712/060	€ 10,70	60 mm	2-3/8
0712/064	€ 12,00	64 mm	2-1/2
0712/065	€ 12,00	65 mm	2-9/16
0712/067	€ 12,00	67 mm	2-5/8
0712/068	€ 12,00	68 mm	2-11/16
0712/070	€ 12,00	70 mm	2-3/4
0712/073	€ 14,00	73 mm	2-7/8
0712/076	€ 14,00	76 mm	3
0712/079	€ 14,00	79 mm	3-1/8
0712/083	€ 15,60	83 mm	3-1/4
0712/085	€ 15,60	85 mm	3-3/8
0712/089	€ 15,60	89 mm	3-1/2
0712/092	€ 15,60	92 mm	3-5/8
0712/095	€ 17,30	95 mm	3-3/4
0712/098	€ 17,30	98 mm	3-7/8
0712/102	€ 18,50	102 mm	4
0712/105	€ 20,20	105 mm	4-1/8
0712/108	€ 24,80	108 mm	4-1/4
0712/111	€ 30,80	111 mm	4-3/8
0712/114	€ 30,80	114 mm	4-1/2
0712/121	€ 30,80	121 mm	4-3/4
0712/127	€ 30,80	127 mm	5
0712/140	€ 35,60	140 mm	5-1/2
0712/152	€ 35,60	152 mm	6

0712/002
€ 86,90
HOLE SAW SET

Electrician kit



BIM - HSS M3 (1)
Var. Z 4-6



9 Pcs



Carrying case



HSS M3



Hole saw	22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	35 - 44 mm
Corresponding arbors, adapter, bits	0712/800
Hole saw	51 - 64 mm
Corresponding arbors, adapter, bits	0712/900

0712/005
€ 56,90
HOLE SAW SET

Repairman set



BIM - HSS M3 (1)
Var. Z 4-6



7 Pcs



Carrying case



HSS M3



Hole saw	22 - 25 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	32 - 38 mm
Corresponding arbors, adapter, bits	0712/900

0712/008
€ 86,90
HOLE SAW SET

Plumber set



BIM - HSS M3 (1)
Var. Z 4-6



9 Pcs



Carrying case



HSS M3



Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	38 - 44 - 57 mm
Corresponding arbors, adapter, bits	0712/800 - 0712/900

0712/009
€ 98,70
HOLE SAW SET

Installer set



BIM - HSS M3 (1)
Var. Z 4-6



13 Pcs



Carrying case



HSS M3



Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600 - 0712/900 - 0712/300
Hole saw	35 - 38 - 44 - 51 - 57 - 64 mm
Corresponding arbors, adapter, bits	0712/800

**0712/010**

€ 186,00

HOLE SAW SET

Industry kit



21 Pcs



Carrying case

HSS M3

Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	35 - 38 - 44 - 51 - 57 - 64 - 76 - 83 - 92 - 95 - 105 - 114 mm
Corresponding arbors, adapter, bits	0712/600 - 0712/900 - 0712/300
Extension	300 mm

0712-X00**DRILL BIT**

Suitable for all brands



Box

HSS

Art.	€	Stem	For arbor	Length	Pack
0712/300	€ 3,96	Ø 6,35 mm	0712/600	105 mm	10
0712/200	€ 3,96	Ø 6,35 mm	0712/700 - 800	75 mm	10

0712/900

€ 3,96

ARBOR ADAPTER FOR HOLE SAWS

Box

Gear Reduction ratio	1/2" - 5/8"
For arbor	0712/600 - 0712/700

0712-X0**HOLE SAW ARBOR WITH DRILL BIT**

Hexagonal connection, suitable for all brands.



Box

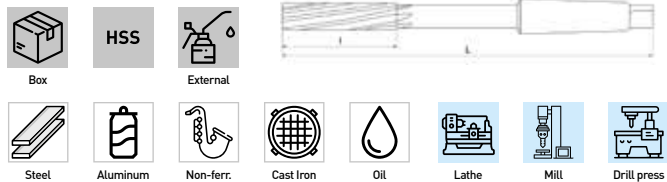
HSS

Art.	€	Shank	Stem	Hole saw	Thread
0712/600	€ 7,10	Shank Round	Ø 6,35 mm	Ø 14÷30 mm	1/2"
0712/700	€ 8,00	Shank Hexagonal	Ø 9,5 mm	Ø 14÷30 mm	1/2"
0712/800	€ 12,70	Shank Hexagonal	Ø 11 mm	Ø 32÷152 mm	5/8"



A208B-
MACHINE REAMER

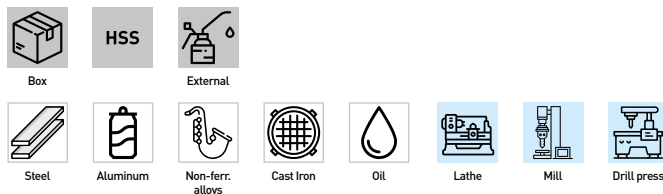
DIN 208 / B, ground for H7 couplings. Right-hand cut, left-hand helical cutting edges, morse taper attachment. They can be used mainly for through holes but thanks to the short mouth it is also possible to bore blind holes



Art.	€	øH7	L	I	MT
A208B/05	€ 21,40	5 mm	133 mm	23 mm	1
A208B/06	€ 23,20	6 mm	138 mm	26 mm	1
A208B/07	€ 23,20	7 mm	150 mm	31 mm	1
A208B/08	€ 24,30	8 mm	156 mm	33 mm	1
A208B/09	€ 24,30	9 mm	162 mm	36 mm	1
A208B/10	€ 26,50	10 mm	168 mm	38 mm	1
A208B/11	€ 26,50	11 mm	175 mm	41 mm	1
A208B/12	€ 27,80	12 mm	182 mm	44 mm	1
A208B/13	€ 27,80	13 mm	182 mm	44 mm	1
A208B/14	€ 29,10	14 mm	189 mm	47 mm	1
A208B/15	€ 33,20	15 mm	204 mm	50 mm	2
A208B/16	€ 33,20	16 mm	210 mm	52 mm	2
A208B/17	€ 34,10	17 mm	214 mm	54 mm	2
A208B/18	€ 34,70	18 mm	219 mm	56 mm	2
A208B/19	€ 35,60	19 mm	223 mm	58 mm	2
A208B/20	€ 39,50	20 mm	228 mm	60 mm	2
A208B/21	€ 41,60	21 mm	232 mm	62 mm	2
A208B/22	€ 45,50	22 mm	237 mm	64 mm	2
A208B/23	€ 50,00	23 mm	241 mm	66 mm	2
A208B/24	€ 51,90	24 mm	268 mm	68 mm	3
A208B/25	€ 56,90	25 mm	268 mm	68 mm	3
A208B/26	€ 59,70	26 mm	273 mm	70 mm	3
A208B/27	€ 66,60	27 mm	277 mm	71 mm	3
A208B/28	€ 72,50	28 mm	277 mm	71 mm	3
A208B/29	€ 74,40	29 mm	281 mm	73 mm	3
A208B/30	€ 79,30	30 mm	281 mm	73 mm	3
A208B/31	€ 83,20	31 mm	285 mm	75 mm	3
A208B/32	€ 87,10	32 mm	317 mm	77 mm	4
A208B/34	€ 116,00	34 mm	321 mm	78 mm	4
A208B/35	€ 121,00	35 mm	321 mm	78 mm	4
A208B/36	€ 126,00	36 mm	325 mm	79 mm	4
A208B/38	€ 140,00	38 mm	329 mm	81 mm	4
A208B/40	€ 152,00	40 mm	329 mm	81 mm	4

A212-
MACHINE REAMER

DIN 212 / B, ground for H7 couplings. Right-hand cut, left-hand helical cutting edges, cylindrical attachment. They can be used mainly for through holes but thanks to the short mouth it is also possible to bore blind holes

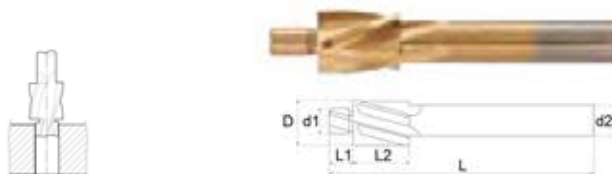


Art.	€	øH7	L	I	d h9	Z
A212/02.00	€ 20,20	2 mm	49 mm	11 mm	2 mm	4
A212/02.50	€ 20,20	2,5 mm	57 mm	14 mm	2,5 mm	4
A212/03.00	€ 20,20	3 mm	61 mm	15 mm	3 mm	4
A212/03.50	€ 20,20	3,5 mm	70 mm	18 mm	3,5 mm	6
A212/04.00	€ 13,50	4 mm	75 mm	19 mm	4 mm	6
A212/04.50	€ 13,50	4,5 mm	80 mm	21 mm	4,5 mm	6
A212/05.00	€ 13,50	5 mm	86 mm	23 mm	5 mm	6
A212/05.50	€ 13,50	5,5 mm	93 mm	26 mm	5,5 mm	6
A212/06.00	€ 13,50	6 mm	93 mm	26 mm	6 mm	6
A212/06.50	€ 17,10	6,5 mm	101 mm	28 mm	6,5 mm	6
A212/07.00	€ 17,10	7 mm	109 mm	31 mm	7 mm	6
A212/07.50	€ 17,10	7,5 mm	109 mm	31 mm	7 mm	6
A212/08.00	€ 17,10	8 mm	117 mm	33 mm	8 mm	6
A212/08.50	€ 21,30	8,5 mm	117 mm	33 mm	8 mm	6
A212/09.00	€ 21,30	9 mm	125 mm	36 mm	9 mm	6
A212/09.50	€ 21,30	9,5 mm	125 mm	36 mm	9 mm	6
A212/10.00	€ 21,30	10 mm	133 mm	38 mm	10 mm	6
A212/11.00	€ 24,30	11 mm	142 mm	41 mm	10 mm	6
A212/12.00	€ 33,20	12 mm	151 mm	44 mm	10 mm	6
A212/13.00	€ 33,20	13 mm	151 mm	44 mm	10 mm	6
A212/14.00	€ 40,10	14 mm	160 mm	47 mm	12 mm	6
A212/15.00	€ 40,10	15 mm	162 mm	50 mm	12 mm	8
A212/16.00	€ 40,10	16 mm	170 mm	52 mm	12 mm	8



**L018-****SOLID CAP SCREW COUNTER BORE BEFORE THREAD GRADE**

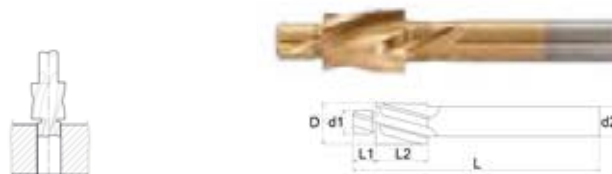
DIN 373, for pre-drilled threads



Art.	€	Screw	D	d1	d2	L1	L2	L
L018/03	€ 12,40	M3	6 mm	2,5 mm	5 mm	4 mm	14 mm	71 mm
L018/04	€ 12,40	M4	8 mm	3,3 mm	5 mm	5 mm	14 mm	71 mm
L018/05	€ 12,40	M5	10 mm	4,2 mm	8 mm	6 mm	18 mm	80 mm
L018/06	€ 12,80	M6	11 mm	5,0 mm	8 mm	7 mm	18 mm	80 mm
L018/08	€ 20,80	M8	15 mm	6,8 mm	12,5 mm	9 mm	22 mm	100 mm
L018/10	€ 24,70	M10	18 mm	8,5 mm	12,5 mm	14 mm	22 mm	100 mm
L018/12	€ 26,70	M12	20 mm	10,2 mm	12,5 mm	14 mm	22 mm	100 mm

L019-**SOLID CAP SCREW COUNTER BORE FINE GRADE**

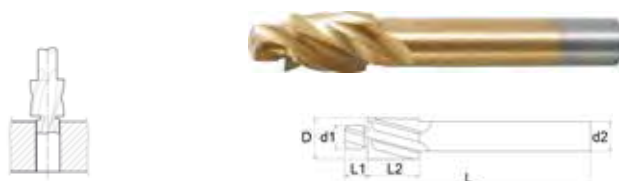
DIN 373, for through holes for the execution of precision screws or bolts



Art.	€	Screw	D	d1	d2	L1	L2	L
L019/03	€ 12,40	M3	6 mm	3,2 mm	5 mm	4 mm	14 mm	71 mm
L019/04	€ 12,40	M4	8 mm	4,3 mm	5 mm	5 mm	14 mm	71 mm
L019/05	€ 12,40	M5	10 mm	5,3 mm	8 mm	6 mm	18 mm	80 mm
L019/06	€ 12,80	M6	11 mm	6,4 mm	8 mm	7 mm	18 mm	80 mm
L019/08	€ 20,80	M8	15 mm	8,4 mm	12,5 mm	9 mm	22 mm	100 mm
L019/10	€ 24,70	M10	18 mm	10,5 mm	12,5 mm	14 mm	22 mm	100 mm
L019/12	€ 26,70	M12	20 mm	13,0 mm	12,5 mm	14 mm	22 mm	100 mm

L020-**COUNTERBORER WITH SOLID PILOT STRAIGHT SHANK MEDIUM TYPE**

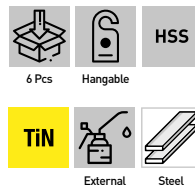
DIN 373, for through holes



Art.	€	Screw	D	d1	d2	L1	L2	L
L020/03	€ 13,50	M3	6 mm	3,4 mm	5 mm	4 mm	14 mm	71 mm
L020/04	€ 14,60	M4	8 mm	4,5 mm	5 mm	5 mm	14 mm	71 mm
L020/05	€ 15,80	M5	10 mm	5,5 mm	8 mm	6 mm	18 mm	80 mm
L020/06	€ 16,60	M6	11 mm	6,6 mm	8 mm	7 mm	18 mm	80 mm
L020/08	€ 25,30	M8	15 mm	9 mm	12,5 mm	9 mm	22 mm	100 mm
L020/10	€ 28,70	M10	18 mm	11 mm	12,5 mm	14 mm	22 mm	100 mm
L020/12	€ 32,30	M12	20 mm	13,5 mm	12,5 mm	14 mm	22 mm	100 mm

L018S**€ 84,10****SOLID CAP SCREW COUNTER BORE SET BEFORE THREAD**

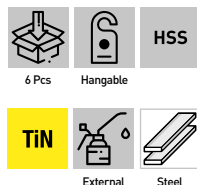
DIN 373, for pre-drilled threads



For screws M3, M4, M5, M6, M8, M10, M12

L019S**€ 84,10****SOLID CAP SCREW COUNTER BORE SET FINE GRADE**

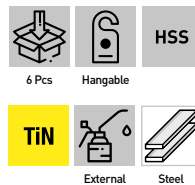
DIN 373, for through holes for the execution of precision screws or bolts



For screws M3, M4, M5, M6, M8, M10, M12

L020S**€ 84,10****SOLID CAP SCREW COUNTER BORE SET MEDIUM GRADE**

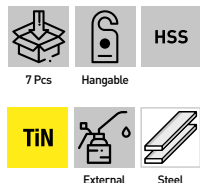
DIN 373, for through holes



For screws M3, M4, M5, M6, M8, M10

L020
€ 98,70
7 PCS COUNTERBORER WITH SOLID PILOT STRAIGHT SHANK

DIN 373, for through holes

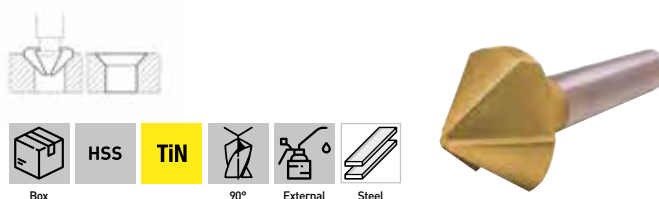


For screws

M3, M4, M5, M6, M8, M10, M12

S0X
90° THREE FLUTES COUNTERSINK

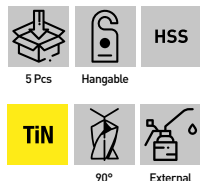
DIN 335C, with ground edges and grooves machined from solid, to perform conical countersinks without vibrations.



Art.	€	ø max	Screws M	Stem
S006	€ 10,20	6,3 mm	3	Ø 5 mm
S010	€ 12,00	10,4 mm	5	Ø 6 mm
S012	€ 13,80	12,4 mm	6	Ø 8 mm
S016	€ 17,90	16,5 mm	8	Ø 10 mm
S020	€ 21,90	20,5 mm	10	Ø 10 mm
S025	€ 26,20	25 mm	12	Ø 10 mm
S028	€ 33,10	28 mm	14	Ø 12 mm
S031	€ 35,50	31 mm	16	Ø 12 mm
S040	€ 60,00	40 mm	--	Ø 15 mm

S001
€ 93,10
90° THREE FLUTES COUNTERSINK SET

DIN 335C, with ground edges and grooves machined from solid, to perform conical countersinks without vibrations.

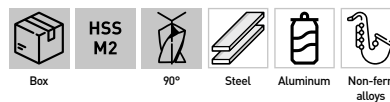
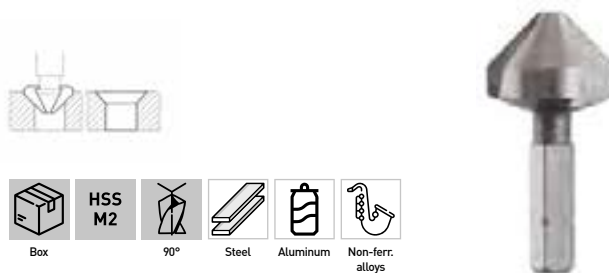


ø max

8 - 10 - 12,4 - 16,5 - 20,5 mm

S026-
COUNTERSINK WITH HEX SHANK

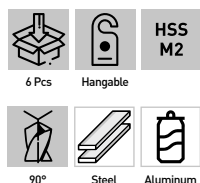
To perform conical countersinks without vibrations.



Art.	€	ø	Total length	Shank dimensions
S026/06	€ 9,40	6,3 mm	31 mm	1/4" HEX x 25 mm
S026/08	€ 9,40	8,3 mm	31 mm	1/4" HEX x 25 mm
S026/10	€ 10,30	10,4 mm	34 mm	1/4" HEX x 25 mm
S026/12	€ 10,80	12,4 mm	35 mm	1/4" HEX x 25 mm
S026/16	€ 11,80	16,5 mm	40 mm	1/4" HEX x 25 mm
S026/20	€ 13,70	20,5 mm	41 mm	1/4" HEX x 25 mm

S026/06-20S
€ 60,20
COUNTERSINK SET WITH HEX SHANK

To perform conical countersinks without vibrations.



Sizes

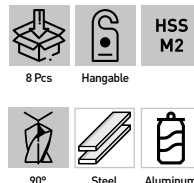
6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5 mm

Shank dimensions

1/4" HEX x 25 mm

S026/06-20SM
€ 73,40
COUNTERSINK SET WITH HEX SHANK

To perform conical countersinks without vibrations. With handle and magnetic extension.



Sizes

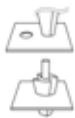
6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5 mm

Shank dimensions

1/4" HEX x 25 mm

**A014-****TAPER DRILL**

With cylindrical shank

**HSS
M2****TiN**

Steel



Aluminum

Non-ferr.
alloys

Art.	€	Ø	Total length
A014/03-14	€ 12,50	3 - 14 mm	58 mm
A014/06-20	€ 21,60	6 - 20 mm	63 mm
A014/16-30	€ 38,60	16 - 30,5 mm	72 mm
A014/26-40	€ 71,50	26 - 40 mm	86 mm
A014/36-50	€ 95,90	36 - 50 mm	89 mm
A014/40-61	€ 160,00	40 - 61 mm	94 mm
A014/03-31	€ 45,10	3 - 31 mm	104 mm
A014/03-22	€ 26,80	3 - 22,5 mm	76 mm

A014/03-30S**€ 81,30****TAPER DRILLS SET**

With cylindrical shank



3 Pcs



Hangable

**HSS
M2****TiN**

Steel



Aluminum



Sizes

3-14 - 6-20 - 16-30,5 mm

F639**€ 78,60****STEP DRILL BITS**

For creating and enlarging holes in sheet metal

**HSS****TiN**

Steel



Aluminum

Non-ferr.
alloys

Stem	10 mm
Ø	6 ÷ 39 (6-9-12-15-18-21-24-27-30-33-36-39) mm

F430**€ 74,40****STEP DRILL BITS SET**

For creating and enlarging holes in sheet metal



3 Pcs



Hangable

**HSS****TiN**

Steel



Aluminum

Stem

6 - 8 - 10 mm

Ø

4 ÷ 12 - 6 ÷ 20 - 6 ÷ 30 mm

F23X**STEP DRILL BITS**

For creating and enlarging holes in sheet metal, with interchangeable point.

**HSS****TiN**

Steel



Aluminum

Non-ferr.
alloys

Art.	€	Stem	Ø
F232	€ 72,40	10 mm	2,5 ÷ 32 (2,5-6,3-11,2-14,5-18,2-22,3-27,9-32) mm
F238	€ 77,50	10 mm	2,5 ÷ 38 (2,5-6,3-13-16-19-21-23-26-29-32-35-38) mm

F025**€ 6,50****SPARE PART POINT**

Suitable with F232 F238



Box

**HSS**

Stem

4 mm

Spare part point

Ø 2,5 mm

P037-
MILLING DRILLS

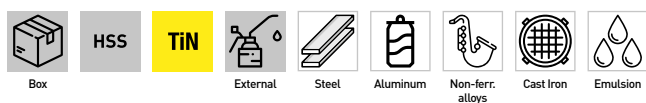
For drilling and milling of thin materials



Art.	€	Ø	Stem	Total length
P037/6	€ 2,71	6 mm	6 mm	90 mm
P037/8	€ 4,06	8 mm	8 mm	90 mm

F005-
2 FLUTE STRAIGHT SHANK END MILL

DIN 327/D, for finish, cylindrical shank, weldon connection, normal series



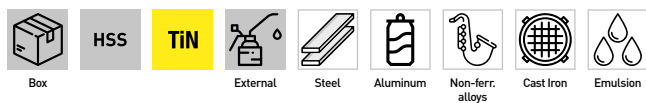
Art.	€	D	d	l	Z	L
F005/03	€ 7,50	3 mm	6 mm	5 mm	2	49 mm
F005/04	€ 7,80	4 mm	6 mm	7 mm	2	51 mm
F005/05	€ 8,80	5 mm	6 mm	8 mm	2	52 mm
F005/06	€ 9,00	6 mm	6 mm	8 mm	2	52 mm
F005/08	€ 10,80	8 mm	10 mm	11 mm	2	61 mm
F005/10	€ 10,90	10 mm	10 mm	13 mm	2	63 mm
F005/12	€ 12,70	12 mm	12 mm	16 mm	2	73 mm



Art.	€	D	d	l	Z	L
F005/14	€ 17,00	14 mm	12 mm	16 mm	2	73 mm
F005/16	€ 25,20	16 mm	16 mm	19 mm	2	79 mm
F005/18	€ 26,20	18 mm	16 mm	19 mm	2	79 mm
F005/20	€ 35,50	20 mm	20 mm	22 mm	2	88 mm
F005/22	€ 44,00	22 mm	20 mm	22 mm	2	88 mm
F005/24	€ 49,90	24 mm	20 mm	26 mm	2	92 mm
F005/25	€ 54,00	25 mm	20 mm	26 mm	2	92 mm

F006-
4 FLUTE STRAIGHT SHANK END MILL

DIN 844 for finish, cylindrical shank, weldon connection, normal series



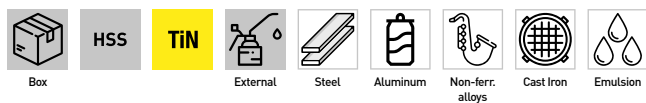
Art.	€	D	d	l	Z	L
F006/03	€ 7,80	3 mm	6 mm	8 mm	4	52 mm
F006/04	€ 7,80	4 mm	6 mm	11 mm	4	55 mm
F006/05	€ 8,90	5 mm	6 mm	13 mm	4	57 mm
F006/06	€ 9,00	6 mm	6 mm	13 mm	4	57 mm
F006/08	€ 11,30	8 mm	10 mm	19 mm	4	69 mm
F006/10	€ 11,90	10 mm	10 mm	22 mm	4	72 mm



Art.	€	D	d	l	Z	L
F006/12	€ 15,40	12 mm	12 mm	26 mm	4	83 mm
F006/14	€ 15,40	14 mm	12 mm	26 mm	4	83 mm
F006/16	€ 22,60	16 mm	16 mm	32 mm	4	92 mm
F006/18	€ 22,80	18 mm	16 mm	32 mm	4	92 mm
F006/20	€ 31,90	20 mm	20 mm	38 mm	4	104 mm

F007-
4 FLUTE STRAIGHT SHANK ROUGHING END MILL

DIN 844/B, regular length weldon shank center cutting.



Art.	€	D	d	l	Z	L
F007/06	€ 12,70	6 mm	6 mm	13 mm	4	57 mm
F007/07	€ 12,70	7 mm	10 mm	16 mm	4	66 mm
F007/08	€ 14,00	8 mm	10 mm	19 mm	4	69 mm
F007/09	€ 16,30	9 mm	10 mm	19 mm	4	69 mm
F007/10	€ 16,30	10 mm	10 mm	22 mm	4	72 mm
F007/11	€ 16,30	11 mm	12 mm	22 mm	4	76 mm
F007/12	€ 16,30	12 mm	12 mm	26 mm	4	83 mm
F007/13	€ 17,50	13 mm	12 mm	26 mm	4	83 mm



Art.	€	D	d	l	Z	L
F007/14	€ 17,50	14 mm	12 mm	26 mm	4	83 mm
F007/15	€ 22,10	15 mm	12 mm	26 mm	4	83 mm
F007/16	€ 22,10	16 mm	16 mm	32 mm	4	92 mm
F007/18	€ 30,30	18 mm	16 mm	32 mm	4	92 mm
F007/20	€ 41,10	20 mm	20 mm	38 mm	4	104 mm
F007/22	€ 47,10	22 mm	20 mm	38 mm	4	104 mm
F007/25	€ 52,10	25 mm	25 mm	45 mm	4	121 mm

**F001/10**

€ 228,00

SET FRONTAL ROUGHING END MILLS

DIN 844/B, regular length, center cutting, weldon shank.



Mill	Ø 6 8 10 12 14 16 18 20 22 25 mm
Stem	Ø 6 10 10 12 12 16 16 20 20 25 mm

F001/20

€ 228,00

SET END MILLS

DIN 844/B and DIN 327/D, two and four flute, regular length, weldon shank, center cutting.



2 Flute mill	Ø 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 18 - 20 mm
Stem	Ø 6 - 6 - 6 - 6 - 10 - 10 - 12 - 12 - 16 - 20 mm
4 Flute mill	Ø 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 18 - 20 mm
Stem	Ø 6 - 6 - 6 - 6 - 10 - 10 - 12 - 12 - 16 - 20 mm



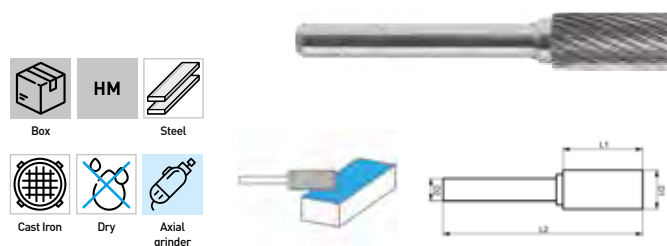
HARD METAL ROTARY MILLING MACHINES

Cut type	Representation	Description
Standard Cut		Suitable for cutting steel, hardened steel, cast iron, weld seams and metal materials in general.
Cross cut		Suitable for treated steel, stainless steel, metal materials in general. Thanks to this type of cut, vibrations are considerably reduced.
Aluminium cutting		Suitable for aluminium, magnesium, plastics and hard rubber.

TPOLOGIES OF SHAPES AND THEIR USE

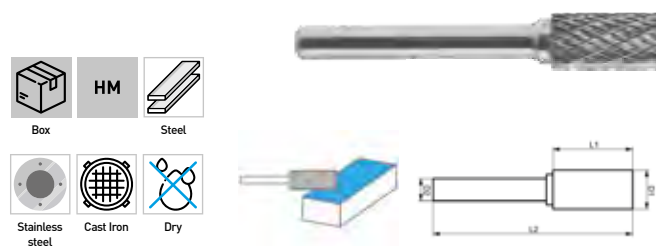
Cylindrical without frontal cut 	Cylindrical with frontal cut 	Spoked head cylinder 	Spherical
Oval 	Ogive with rounded tip 	Ogive 	With spoked lance
Spoked tip conical 	Conical pointed 	Conical Trunk 	90° conical
60° conical 			

AXSC SINGLE CUT ROTARY BURRS



Art.	€	D1	L1	D2	L2
A02SC3	€ 4,45	ø2 mm	10 mm	3 mm	38 mm
A06SC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm
A08SC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
A10SC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
A12SC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
A16SC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm

AXDC DIAMOND CUT ROTARY BURRS



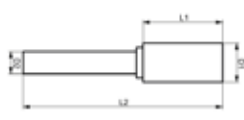
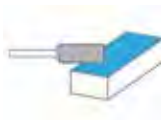
Art.	€	D1	L1	D2	L2
A02DC3	€ 4,45	ø2 mm	10 mm	3 mm	38 mm
A06DC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm
A08DC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
A10DC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
A12DC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
A16DC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm



A12AL6

€ 29,20

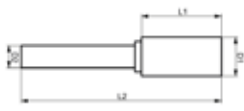
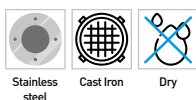
ROTARY BURRS FOR ALUMINIUM



D1	ø12 mm
L1	25 mm
D2	6 mm
L2	70 mm

BXDC

DIAMOND CUT ROTARY BURRS



Art.	€	D1	L1	D2	L2
B02DC3	€ 4,45	ø2 mm	10 mm	3 mm	38 mm
B03DC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
B04DC3	€ 9,40	ø4 mm	13 mm	3 mm	41 mm
B04DC6	€ 9,90	ø4 mm	13 mm	6 mm	58 mm
B06DC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm
B08DC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
B10DC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
B12DC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
B16DC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm
B19DC6	€ 57,40	ø19 mm	25 mm	6 mm	70 mm
B22DC6	€ 88,10	ø22 mm	25 mm	6 mm	70 mm
B25DC6	€ 102,00	ø25 mm	25 mm	6 mm	70 mm

BXSCXL

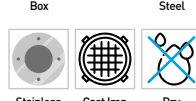
SINGLE CUT LONG ROTARY BURRS



Art.	€	D1	L1	D2	L2
B02SC3L	€ 5,80	ø2 mm	10 mm	3 mm	65 mm
B03SC3L	€ 5,80	ø3 mm	13 mm	3 mm	65 mm
B08SC6L	€ 17,80	ø8 mm	20 mm	6 mm	120 mm
B10SC6L	€ 22,30	ø10 mm	20 mm	6 mm	120 mm
B12SC6L	€ 27,20	ø12 mm	25 mm	6 mm	120 mm

BXSC

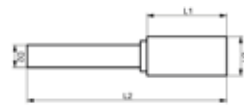
SINGLE CUT ROTARY BURRS



Art.	€	D1	L1	D2	L2
B02SC3	€ 4,45	ø2 mm	10 mm	3 mm	38 mm
B03SC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
B04SC3	€ 9,40	ø4 mm	13 mm	3 mm	41 mm
B04SC6	€ 9,90	ø4 mm	13 mm	6 mm	58 mm
B06SC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm
B08SC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
B10SC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
B12SC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
B16SC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm

BXAL

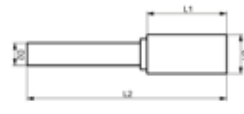
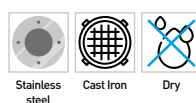
ROTARY BURRS FOR ALUMINIUM



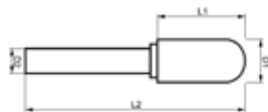
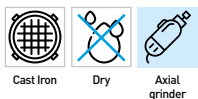
Art.	€	D1	L1	D2	L2
B06AL6	€ 14,40	ø6 mm	16 mm	6 mm	61 mm
B08AL6	€ 16,40	ø8 mm	20 mm	6 mm	65 mm
B10AL6	€ 19,80	ø10 mm	20 mm	6 mm	65 mm
B12AL6	€ 28,70	ø12 mm	25 mm	6 mm	70 mm

BXDCXL

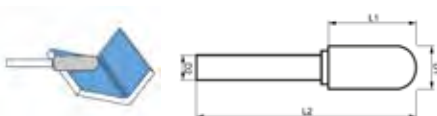
CARBIDE ROTARY BURRS



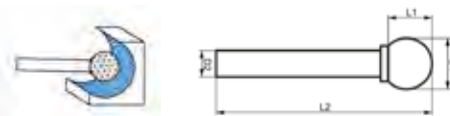
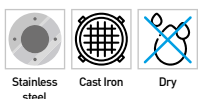
Art.	€	D1	L1	D2	L2
B02DC3L	€ 5,80	ø2 mm	10 mm	3 mm	65 mm
B03DC3L	€ 5,80	ø3 mm	13 mm	3 mm	65 mm
B08DC6L	€ 17,80	ø8 mm	20 mm	6 mm	120 mm
B10DC6L	€ 22,30	ø10 mm	20 mm	6 mm	120 mm
B12DC6L	€ 27,20	ø12 mm	25 mm	6 mm	120 mm

CXSC
SINGLE CUT ROTARY BURRS


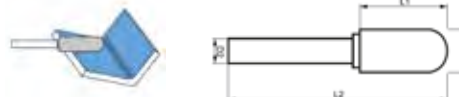
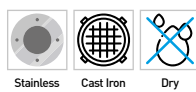
Art.	€	D1	L1	D2	L2
C02SC3	€ 4,45	ø2 mm	10 mm	3 mm	38 mm
C03SC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
C04SC3	€ 9,40	ø4 mm	13 mm	3 mm	58 mm
C04SC6	€ 9,90	ø4 mm	13 mm	6 mm	58 mm
C06SC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm
C08SC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
C10SC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
C12SC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
C16SC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm

CXAL
ROTARY BURRS FOR ALUMINIUM


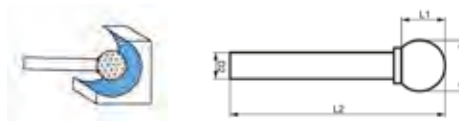
Art.	€	D1	L1	D2	L2
C06AL6	€ 13,90	ø6 mm	16 mm	6 mm	61 mm
C08AL6	€ 16,40	ø8 mm	20 mm	6 mm	65 mm
C10AL6	€ 19,80	ø10 mm	20 mm	6 mm	65 mm
C12AL6	€ 28,70	ø12 mm	25 mm	6 mm	70 mm

DXDC
DIAMOND CUT ROTARY BURRS


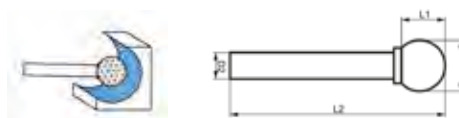
Art.	€	D1	L1	D2	L2
D03DC3	€ 4,45	ø3 mm	2.7 mm	3 mm	38 mm
D04DC6	€ 9,90	ø4 mm	3.6 mm	6 mm	38 mm
D06DC6	€ 9,90	ø6 mm	5.4 mm	6 mm	50 mm
D08DC6	€ 10,90	ø8 mm	7.2 mm	6 mm	52 mm
D10DC6	€ 14,40	ø10 mm	9 mm	6 mm	54 mm
D12DC6	€ 20,30	ø12 mm	10.8 mm	6 mm	56 mm
D16DC6	€ 27,70	ø16 mm	14.4 mm	6 mm	60 mm
D19DC6	€ 57,40	ø19 mm	17.4 mm	6 mm	64 mm

CXDC
DIAMOND CUT ROTARY BURRS


Art.	€	D1	L1	D2	L2
C02DC3	€ 4,45	ø2 mm	10 mm	3 mm	38 mm
C03DC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
C04DC3	€ 9,40	ø4 mm	13 mm	3 mm	38 mm
C04DC6	€ 9,90	ø4 mm	13 mm	6 mm	38 mm
C06DC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm
C08DC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
C10DC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
C12DC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
C16DC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm
C19DC6	€ 57,40	ø19 mm	25 mm	6 mm	70 mm
C22DC6	€ 88,10	ø22 mm	25 mm	6 mm	70 mm
C25DC6	€ 102,00	ø25 mm	25 mm	6 mm	70 mm

DXSC
SINGLE CUT ROTARY BURRS


Art.	€	D1	L1	D2	L2
D03SC3	€ 4,45	ø3 mm	2.7 mm	3 mm	38 mm
D04SC6	€ 9,90	ø4 mm	3.6 mm	6 mm	38 mm
D06SC6	€ 9,90	ø6 mm	5.4 mm	6 mm	50 mm
D08SC6	€ 10,90	ø8 mm	7.2 mm	6 mm	52 mm
D10SC6	€ 14,40	ø10 mm	9 mm	6 mm	54 mm
D12SC6	€ 20,30	ø12 mm	10.8 mm	6 mm	56 mm
D16SC6	€ 27,70	ø16 mm	14.4 mm	6 mm	60 mm

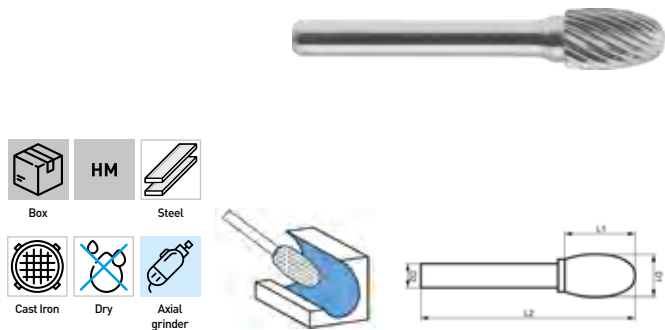
DXAL
ROTARY BURRS FOR ALUMINIUM


Art.	€	D1	L1	D2	L2
D06AL6	€ 11,40	ø6 mm	5.4 mm	6 mm	50 mm
D08AL6	€ 11,90	ø8 mm	7.2 mm	6 mm	52 mm
D10AL6	€ 16,90	ø10 mm	9 mm	6 mm	54 mm



EXSC

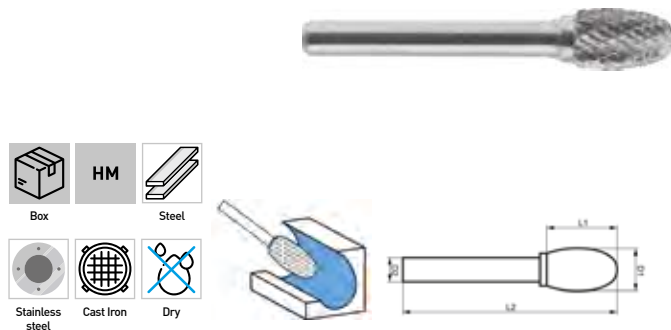
SINGLE CUT ROTARY BURRS



Art.	€	D1	L1	D2	L2
E08SC6	€ 13,90	ø8 mm	13 mm	6 mm	58 mm
E10SC6	€ 17,30	ø10 mm	16 mm	6 mm	61 mm
E12SC6	€ 25,30	ø12 mm	20 mm	6 mm	65 mm
E16SC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm

EXDC

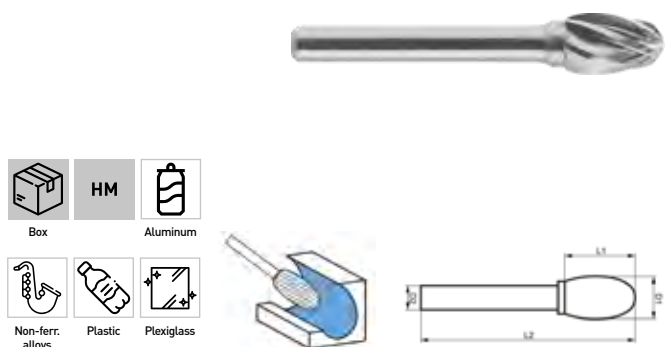
DIAMOND CUT ROTARY BURRS



Art.	€	D1	L1	D2	L2
E08DC6	€ 13,90	ø8 mm	13 mm	6 mm	58 mm
E10DC6	€ 17,30	ø10 mm	16 mm	6 mm	61 mm
E12DC6	€ 25,30	ø12 mm	20 mm	6 mm	65 mm
E16DC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm

EXAL

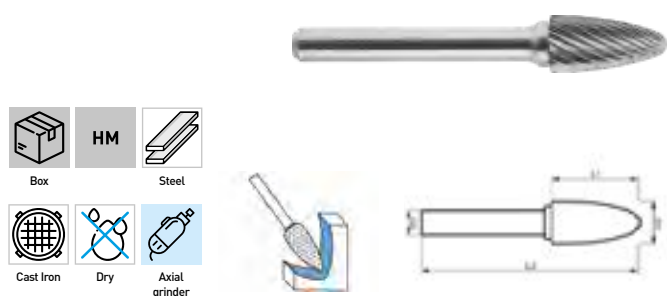
ROTARY BURRS FOR ALUMINIUM



Art.	€	D1	L1	D2	L2
E10AL6	€ 19,80	10 mm	16 mm	6 mm	61 mm
E12AL6	€ 29,20	12 mm	20 mm	6 mm	65 mm

FXSC

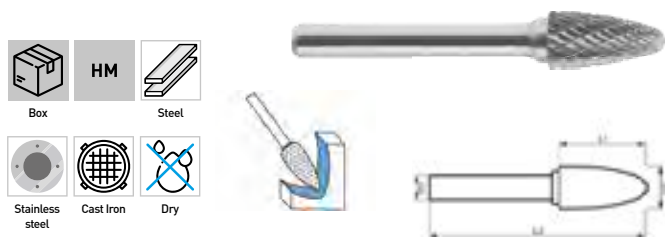
SINGLE CUT ROTARY BURRS



Art.	€	D1	D2	L1	L2
F03SC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
F06SC6	€ 12,40	ø6 mm	18 mm	6 mm	63 mm
F08SC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
F10SC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
F12SC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm

FXDC

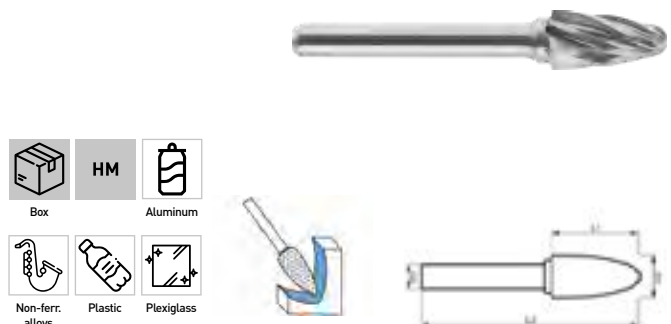
DIAMOND CUT ROTARY BURRS



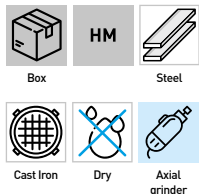
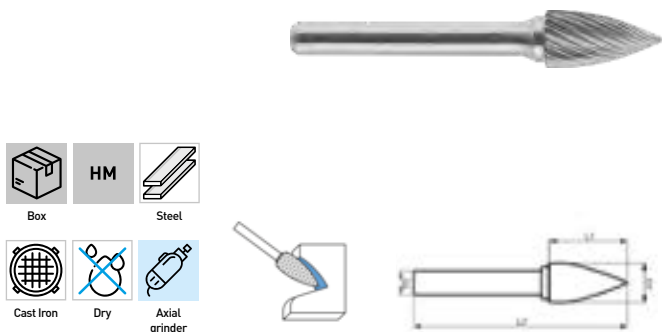
Art.	€	D1	D2	L1	L2
F03DC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
F06DC6	€ 12,40	ø6 mm	18 mm	6 mm	63 mm
F08DC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
F10DC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
F12DC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
F16DC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm
F19DC6	€ 57,40	ø19 mm	25 mm	6 mm	70 mm

FXAL

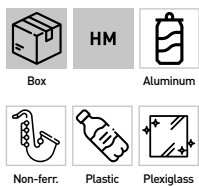
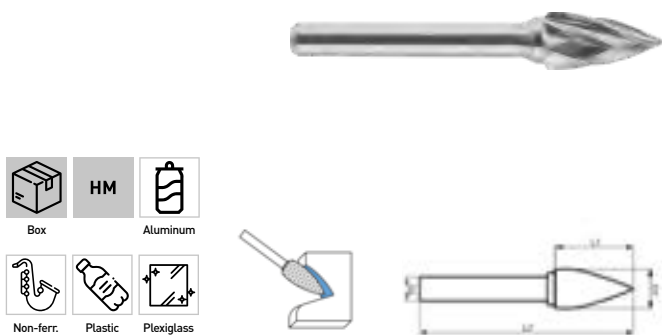
ROTARY BURRS FOR ALUMINIUM



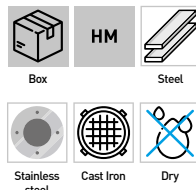
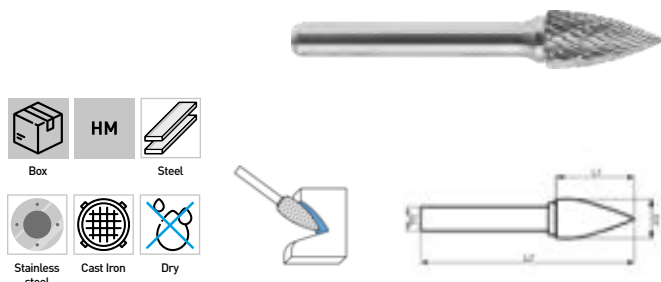
Art.	€	D1	L1	D2	L2
F10AL6	€ 19,80	ø10 mm	20 mm	6 mm	65 mm
F12AL6	€ 29,20	ø12 mm	25 mm	6 mm	70 mm

GXSC
SINGLE CUT ROTARY BURRS


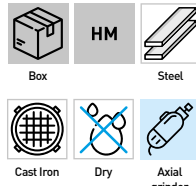
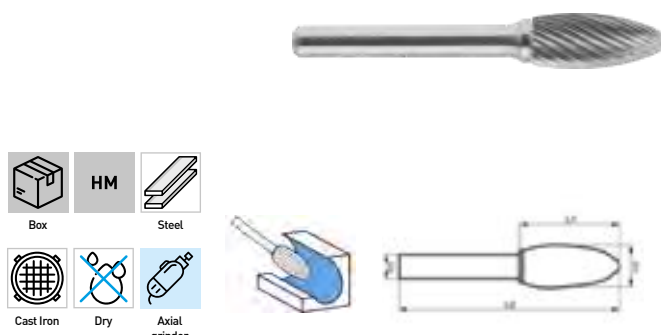
Art.	€	D1	L1	D2	L2
G03SC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
G06SC6	€ 12,40	ø6 mm	18 mm	6 mm	65 mm
G10SC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
G12SC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm

GXAL
ROTARY BURRS FOR ALUMINIUM


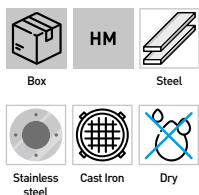
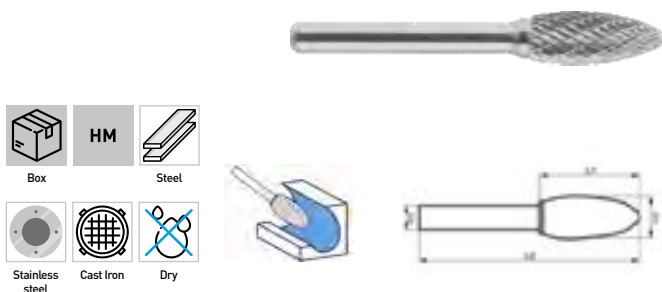
Art.	€	D1	L1	D2	L2
G10AL6	€ 19,80	ø10 mm	20 mm	6 mm	65 mm
G12AL6	€ 29,20	ø12 mm	25 mm	6 mm	70 mm

GXDC
DIAMOND CUT ROTARY BURRS


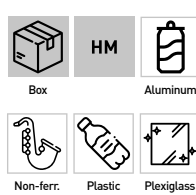
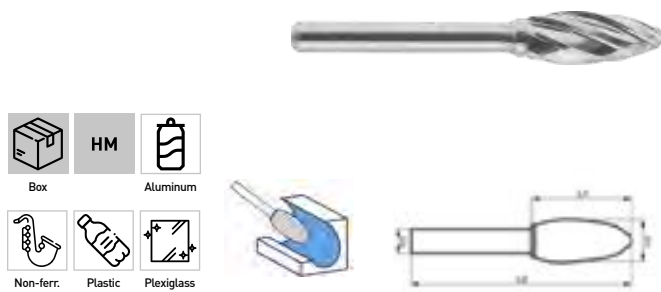
Art.	€	D1	L1	D2	L2
G03DC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
G06DC6	€ 12,40	ø6 mm	18 mm	6 mm	65 mm
G10DC6	€ 17,30	ø10 mm	20 mm	6 mm	65 mm
G12DC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
G16DC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm
G19DC6	€ 57,40	ø19 mm	25 mm	6 mm	70 mm

HXSC
SINGLE CUT ROTARY BURRS


Art.	€	D1	L1	D2	L2
H08SC6	€ 13,40	ø8 mm	20 mm	6 mm	65 mm
H10SC6	€ 15,30	ø10 mm	25 mm	6 mm	70 mm
H12SC6	€ 28,70	ø12 mm	32 mm	6 mm	77 mm

HXDC
DIAMOND CUT ROTARY BURRS


Art.	€	D1	D2	L1	L2
H06DC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm
H08DC6	€ 13,40	ø8 mm	20 mm	6 mm	65 mm
H10DC6	€ 15,30	ø10 mm	25 mm	6 mm	70 mm
H12DC6	€ 28,70	ø12 mm	32 mm	6 mm	77 mm

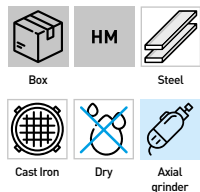
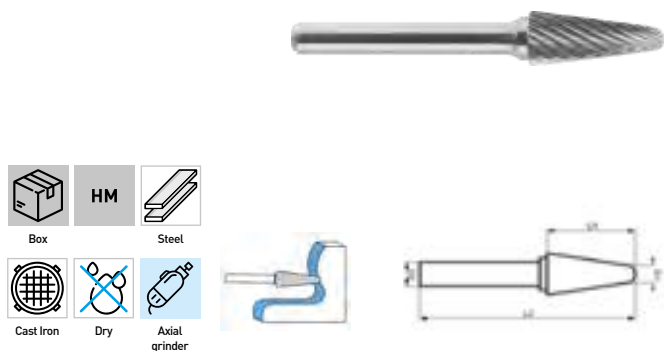


Art.	€	D1	D2	L1	L2
H08AL6	€ 15,30	ø8 mm	20 mm	6 mm	65 mm
H10AL6	€ 19,80	ø10 mm	25 mm	6 mm	70 mm
H12AL6	€ 33,60	ø12 mm	32 mm	6 mm	77 mm



LXSC

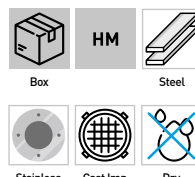
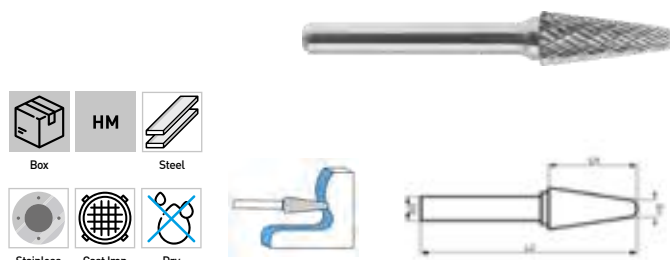
SINGLE CUT ROTARY BURRS



Art.	€	D1	L1	D2	L2
L03SC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
L06SC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm

LXDC

DIAMOND CUT ROTARY BURRS

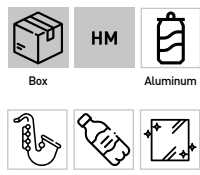
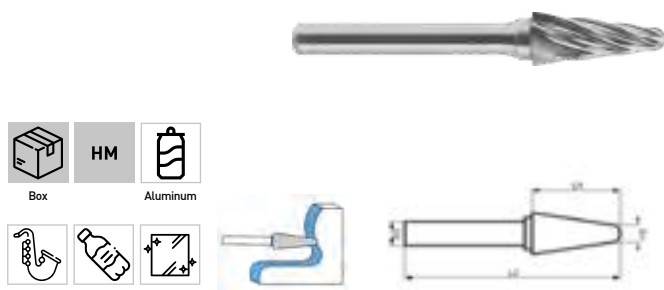


Art.	€	D1	L1	D2	L2
L03DC3	€ 4,45	ø3 mm	13 mm	3 mm	38 mm
L06DC6	€ 12,40	ø6 mm	16 mm	6 mm	61 mm
L08DC6	€ 14,80	ø8 mm	22 mm	6 mm	65 mm
L10DC6	€ 18,80	ø10 mm	25 mm	6 mm	70 mm
L12DC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm

L10AL6

€ 19,80

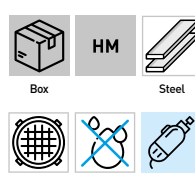
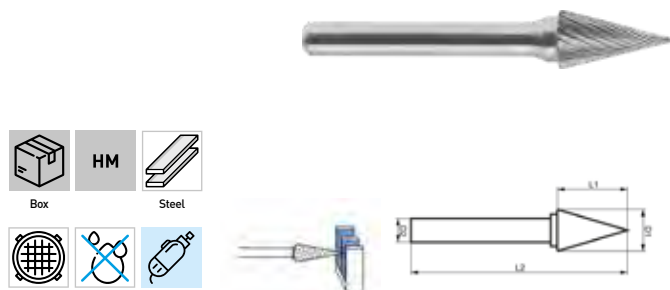
ROTARY BURRS FOR ALUMINIUM



D1	ø10 mm
L1	25 mm
D2	6 mm
L2	70 mm

MXSC

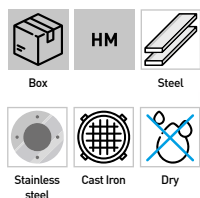
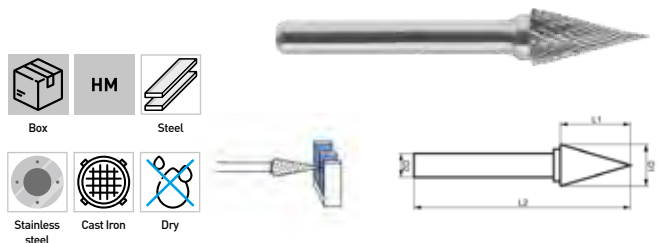
SINGLE CUT ROTARY BURRS



Art.	€	D1	L1	D2	L2
M08SC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
M10SC6	€ 17,80	ø10 mm	20 mm	6 mm	65 mm
M12SC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm

MXDC

DIAMOND CUT ROTARY BURRS

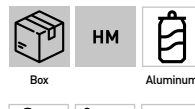


Art.	€	D1	L1	D2	L2
M03DC3	€ 4,45	ø3 mm	11 mm	3 mm	38 mm
M03DC6	€ 8,30	ø3 mm	11 mm	6 mm	38 mm
M06DC6	€ 12,40	ø6 mm	18 mm	6 mm	60 mm
M08DC6	€ 13,90	ø8 mm	20 mm	6 mm	65 mm
M10DC6	€ 17,80	ø10 mm	20 mm	6 mm	65 mm
M12DC6	€ 25,30	ø12 mm	25 mm	6 mm	70 mm
M16DC6	€ 39,50	ø16 mm	25 mm	6 mm	70 mm

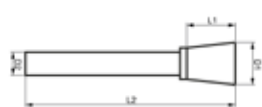
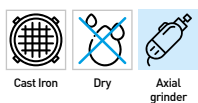
M10AL6

€ 18,80

ROTARY BURRS FOR ALUMINIUM



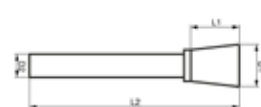
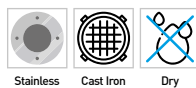
D1	ø10 mm
L1	20 mm
D2	6 mm
L2	65 mm

NXSC
SINGLE CUT ROTARY BURRS


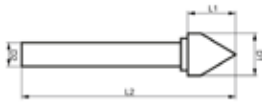
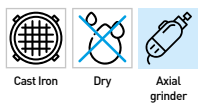
Art.	€	D1	L1	D2	L2
N12SC6	€ 25,30	ø12 mm	13 mm	6 mm	58 mm
N16SC6	€ 35,60	ø16 mm	16 mm	6 mm	58 mm

N12DC6

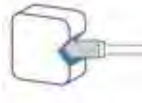
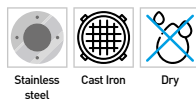
€ 25,30

DIAMOND CUT ROTARY BURRS


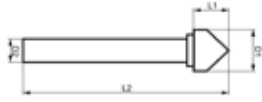
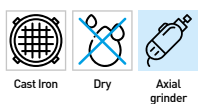
D1	ø12 mm
L1	13 mm
D2	6 mm
L2	58 mm

JXSC
SINGLE CUT ROTARY BURRS


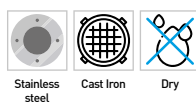
Art.	€	D1	L1	D2	L2
J03SC3	€ 4,45	ø3 mm	2.5 mm	3 mm	38 mm
J06SC6	€ 12,40	ø6 mm	5.2 mm	6 mm	54 mm
J10SC6	€ 17,30	ø10 mm	8 mm	6 mm	58 mm
J16SC6	€ 39,50	ø16 mm	13 mm	6 mm	62 mm

JXDC
DIAMOND CUT ROTARY BURRS


Art.	€	D1	L1	D2	L2
J03DC3	€ 4,45	ø3 mm	2.5 mm	3 mm	38 mm
J06DC6	€ 12,40	ø6 mm	5.2 mm	6 mm	54 mm
J10DC6	€ 17,30	ø10 mm	8 mm	6 mm	58 mm
J16DC6	€ 39,50	ø16 mm	13 mm	6 mm	62 mm

KXSC
SINGLE CUT ROTARY BURRS


Art.	€	D1	L1	D2	L2
K10SC6	€ 17,30	ø10 mm	5 mm	6 mm	54 mm
K16SC6	€ 35,60	ø16 mm	8 mm	6 mm	58 mm

KXDC
DIAMOND CUT ROTARY BURRS


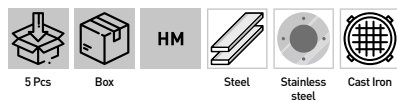
Art.	€	D1	L1	D2	L2
K10DC6	€ 17,30	ø10 mm	5 mm	6 mm	54 mm
K16DC6	€ 35,60	ø16 mm	8 mm	6 mm	58 mm

**F008DC**

€ 64,30

HARD METAL ROTARY BURR SET

With diamond cut.



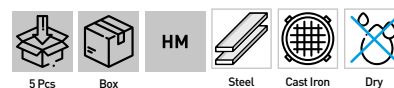
Sizes	10 x 20 mm
Type	B, C, D, G, M
Stem	6 mm

F008SC

€ 64,30

HARD METAL ROTARY BURR SET

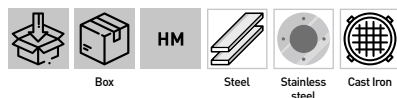
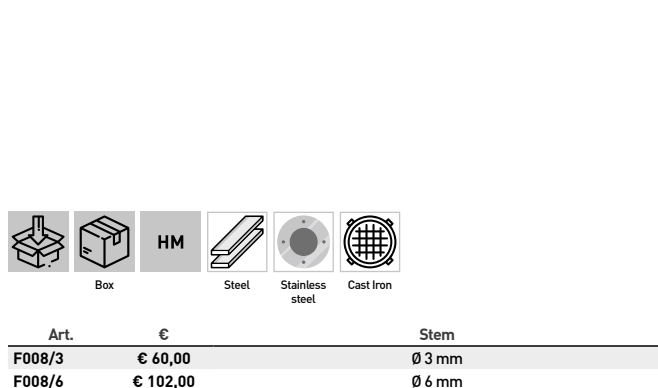
With single cut.



Sizes	10 x 20 mm
Type	B, C, D, G, M
Stem	6 mm

F008-**CARBIDE ROTARY FILE SET**

Cross cut



Art.	€	Stem
F008/3	€ 60,00	Ø 3 mm
F008/6	€ 102,00	Ø 6 mm



C003-

DISC TYPE GEAR SHAPER CUTTER

DIN 1829, nominal $\varnothing$ 100 mm hole 44,45 mm 20° angle pressure class a.



HSS

TiN



Art.	€	Module	$\varnothing$ max	$\varnothing$ d0	Height b1	Teeth
C003/1	€ 328,00	1,00	102 mm	100 mm	16 mm	100
C003/1.25	€ 328,00	1,25	105 mm	100 mm	16 mm	80
C003/1.50	€ 356,00	1,50	107 mm	102 mm	18 mm	68
C003/1.75	€ 385,00	1,75	107,4 mm	101,5 mm	20 mm	58
C003/2	€ 385,00	2,00	107,31 mm	100 mm	20 mm	50
C003/2.25	€ 385,00	2,25	109,29 mm	101,25 mm	20 mm	45
C003/2.50	€ 440,00	2,50	108,46 mm	100 mm	20 mm	40
C003/2.75	€ 440,00	2,75	108,36 mm	99 mm	24 mm	36
C003/3	€ 440,00	3,00	111,82 mm	99 mm	24 mm	33
C003/3.25	€ 483,00	3,25	110,99 mm	99 mm	24 mm	31
C003/3.50	€ 483,00	3,50	108,72 mm	101,5 mm	24 mm	29
C003/3.75	€ 483,00	3,75	112,35 mm	101,5 mm	24 mm	27
C003/4	€ 483,00	4,00	111,75 mm	100 mm	24 mm	25
C003/4.25	€ 514,00	4,25	114,12 mm	102 mm	24 mm	24
C003/4.50	€ 514,00	4,50	111,65 mm	99 mm	24 mm	22
C003/5	€ 524,00	5,00	114,05 mm	100 mm	24 mm	20
C003/5.50	€ 556,00	5,50	119,96 mm	99 mm	24 mm	18
C003/6	€ 556,00	6,00	118,86 mm	102 mm	24 mm	17
C003/6.50	€ 697,00	6,50	122,5 mm	112 mm	24 mm	16
C003/7	€ 811,00	7,00	127 mm	105 mm	24 mm	15
C003/8	€ 911,00	8,00	135 mm	112 mm	24 mm	14
C003/10	€ 1250,00	10,00	168 mm	140 mm	24 mm	14

C001-

GEAR HOB 20° PRESSURE ANGLE

DIN 8002/B, ground profile class a.



HSS

TiN



Art.	€	Module	Diameter $\varnothing$	Length	Hole
C001/1	€ 362,00	1,00	50 mm	31 mm	22 mm
C001/1.25	€ 362,00	1,25	50 mm	31 mm	22 mm
C001/1.50	€ 362,00	1,50	53 mm	50 mm	22 mm
C001/1.75	€ 362,00	1,75	56 mm	38 mm	22 mm
C001/2	€ 373,00	2,00	63 mm	46 mm	27 mm
C001/2.25	€ 431,00	2,25	70 mm	56 mm	27 mm
C001/2.50	€ 431,00	2,50	71 mm	63 mm	27 mm
C001/2.75	€ 431,00	2,75	70 mm	56 mm	27 mm
C001/3	€ 524,00	3,00	80 mm	71 mm	32 mm
C001/3.25	€ 611,00	3,25	80 mm	69 mm	32 mm
C001/3.50	€ 636,00	3,50	80 mm	71 mm	32 mm
C001/3.75	€ 729,00	3,75	90 mm	78 mm	32 mm
C001/4	€ 729,00	4,00	90 mm	78 mm	32 mm
C001/4.25	€ 794,00	4,25	90 mm	78 mm	32 mm
C001/4.50	€ 794,00	4,50	90 mm	78 mm	32 mm
C001/5	€ 794,00	5,00	100 mm	88 mm	32 mm
C001/5.50	€ 794,00	5,50	100 mm	88 mm	32 mm
C001/6	€ 1050,00	6,00	110 mm	108 mm	40 mm
C001/6.50	€ 1110,00	6,50	110 mm	109 mm	40 mm
C001/7	€ 1110,00	7,00	110 mm	110 mm	40 mm
C001/8	€ 1750,00	8,00	125 mm	130 mm	40 mm
C001/9	€ 1990,00	9,00	125 mm	140 mm	40 mm
C001/10	€ 2690,00	10,00	140 mm	160 mm	40 mm
C001/12	€ 3860,00	12,00	170 mm	195 mm	50 mm
C001/13	€ 4060,00	13,00	180 mm	210 mm	50 mm

**P049-****MASONRY DRILL**

DIN 8039, short series, cylindrical attachment, carbide tipped for masonry drill

**C45**

Bricks



Concrete



Stones



Ceramic



Drywall



Percussion



Portable Drill

Art.	€	ø	L	l	Stem	Pack
P049/03	€ 0,41	3 mm	70 mm	40 mm	ø 2,5 mm	10
P049/04	€ 0,43	4 mm	75 mm	40 mm	ø 3,5 mm	10
P049/05	€ 0,47	5 mm	85 mm	40 mm	ø 4,5 mm	10
P049/06	€ 0,53	6 mm	100 mm	55 mm	ø 4,5 mm	10
P049/07	€ 0,76	7 mm	100 mm	55 mm	ø 6,5 mm	10
P049/08	€ 0,83	8 mm	120 mm	70 mm	ø 6,5 mm	10
P049/09	€ 0,97	9 mm	120 mm	70 mm	ø 6,5 mm	10
P049/10	€ 1,10	10 mm	120 mm	70 mm	ø 7 mm	10
P049/11	€ 1,85	11 mm	150 mm	90 mm	ø 7 mm	10
P049/12	€ 1,87	12 mm	150 mm	90 mm	ø 9 mm	10
P049/13	€ 2,11	13 mm	150 mm	90 mm	ø 9 mm	5
P049/14	€ 2,38	14 mm	150 mm	90 mm	ø 11 mm	5
P049/15	€ 3,08	15 mm	150 mm	90 mm	ø 12 mm	5
P049/16	€ 3,11	16 mm	150 mm	90 mm	ø 12 mm	5
P049/18	€ 5,60	18 mm	160 mm	100 mm	ø 13 mm	5
P049/22	€ 8,00	22 mm	160 mm	100 mm	ø 13 mm	5
P049/24	€ 9,50	24 mm	160 mm	100 mm	ø 13 mm	5

P051-**CARBIDE DRILL FOR GRANITE AND MARBLE**

DIN 8039, cylindrical attachment, specific for drilling marble and granite with hard metal insert for rotary percussion

**C45**

Granite



Marble



Percussion



Portable Drill

Art.	€	ø	L	l	Stem	Pack
P051/03	€ 2,74	3 mm	70 mm	40 mm	ø 2,5 mm	10
P051/04	€ 2,77	4 mm	75 mm	40 mm	ø 3,5 mm	10
P051/05	€ 3,09	5 mm	85 mm	40 mm	ø 4,5 mm	10
P051/06	€ 3,39	6 mm	100 mm	55 mm	ø 4,5 mm	10
P051/07	€ 3,39	7 mm	100 mm	55 mm	ø 5,5 mm	10
P051/08	€ 3,80	8 mm	120 mm	70 mm	ø 6,5 mm	5
P051/09	€ 4,05	9 mm	120 mm	70 mm	ø 8 mm	5
P051/10	€ 4,72	10 mm	120 mm	70 mm	ø 9 mm	5
P051/12	€ 5,50	12 mm	150 mm	90 mm	ø 10 mm	5
P051/14	€ 7,00	14 mm	150 mm	90 mm	ø 12 mm	5
P051/16	€ 7,90	16 mm	150 mm	90 mm	ø 12 mm	5

P050-**MASONRY DRILL**

DIN 8039, long series, cylindrical attachment, carbide tipped for masonry drill

**C45**

Bricks



Concrete



Stones



Ceramic



Drywall



Percussion



Portable Drill

Art.	€	ø	L	l	Stem	Pack
P050/06	€ 1,99	6 mm	400 mm	240 mm	ø 4,5 mm	5
P050/08	€ 2,32	8 mm	400 mm	240 mm	ø 7 mm	5
P050/09	€ 2,84	9 mm	400 mm	240 mm	ø 7 mm	5
P050/10	€ 3,39	10 mm	400 mm	240 mm	ø 7 mm	5
P050/12	€ 4,72	12 mm	400 mm	240 mm	ø 9 mm	5
P050/14	€ 5,70	14 mm	400 mm	240 mm	ø 10 mm	5
P050/16	€ 6,40	16 mm	400 mm	240 mm	ø 12 mm	5
P050/18	€ 7,80	18 mm	400 mm	240 mm	ø 12,5 mm	5
P050/20	€ 9,90	20 mm	400 mm	240 mm	ø 12,5 mm	5

P063-**CARBIDE TIPPED SDS PLUS SHANK TYPE HAMMER TWIST DRILL**

2 edges, with attack sds plus, double helix to facilitate the release of debris, with hard metal insert



Hangable

**HM****40 Cr**

Bricks



Concrete



Stones



Ceramic



Drywall



Percussion

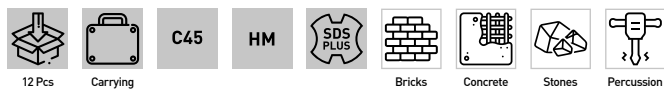


Portable Drill

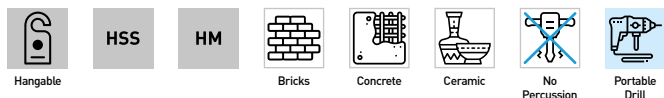
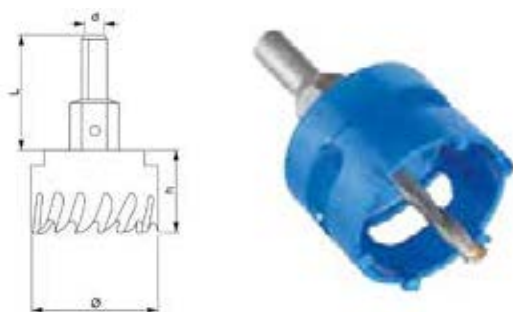
Art.	€	Size	Pack
P063/5110	€ 3,17	5 x 110 mm	10
P063/6110	€ 3,17	6 x 110 mm	10
P063/6160	€ 3,17	6 x 160 mm	10
P063/8110	€ 3,17	8 x 110 mm	10
P063/8160	€ 3,17	8 x 160 mm	10
P063/9160	€ 3,17	9 x 160 mm	10
P063/10160	€ 3,81	10 x 160 mm	10
P063/12160	€ 3,81	12 x 160 mm	10
P063/12300	€ 4,43	12 x 300 mm	10
P063/14160	€ 4,43	14 x 160 mm	10
P063/14300	€ 4,43	14 x 300 mm	10
P063/15160	€ 5,10	15 x 160 mm	10
P063/16160	€ 5,10	16 x 160 mm	10
P063/16300	€ 5,10	16 x 300 mm	10
P063/16450	€ 9,50	16 x 450 mm	5
P063/18160	€ 7,00	18 x 160 mm	5
P063/18300	€ 7,00	18 x 300 mm	5
P063/18450	€ 10,40	18 x 450 mm	5
P063/20160	€ 7,00	20 x 160 mm	5
P063/20450	€ 10,40	20 x 450 mm	5
P063/22450	€ 12,30	22 x 450 mm	5
P063/24450	€ 13,90	24 x 450 mm	5

0332
€ 33,90
CARBIDE TIPPED HAMMER TWIST DRILL AND CHISEL SET

With attack sds plus, consisting of 9 twist drills: Ø4 x 110mm Ø5 x 110mm Ø6 x 110mm Ø5 x 160mm Ø6 x 160mm Ø8 x 160mm Ø9 x 160mm Ø10 x 160mm Ø12 x 160mm, 1 bit holder, 1 flat chisel and 1 point chisel.


P076-
CARBIDE TIPPED MASONRY CORE DRILL BIT HOLE SAW

For drilling medium and large holes in the wall



Art.	€	ø	d	Thread	Z	L	Boring bit
P076/016	€ 14,40	16 mm	10 mm	M12 x 1.25	2	46 mm	ø6 x 69 mm
P076/022	€ 15,40	22 mm	10 mm	M12 x 1.25	3	46 mm	ø6 x 69 mm
P076/025	€ 19,50	25 mm	10 mm	M12 x 1.25	3	46 mm	ø6 x 69 mm
P076/027	€ 20,60	27 mm	10 mm	M12 x 1.25	4	46 mm	ø6 x 69 mm
P076/030	€ 21,60	30 mm	10 mm	M12 x 1.25	4	46 mm	ø6 x 69 mm
P076/035	€ 22,10	35 mm	10 mm	M12 x 1.25	4	46 mm	ø6 x 69 mm
P076/038	€ 24,60	38 mm	10 mm	M12 x 1.25	4	46 mm	ø6 x 69 mm
P076/040	€ 27,20	40 mm	10 mm	M12 x 1.25	5	46 mm	ø6 x 69 mm
P076/045	€ 29,30	45 mm	10 mm	M12 x 1.25	5	46 mm	ø6 x 69 mm
P076/050	€ 30,80	50 mm	10 mm	M12 x 1.25	6	46 mm	ø6 x 69 mm
P076/055	€ 34,90	55 mm	12 mm	M16 x 1.5	6	46 mm	ø8 x 69 mm
P076/060	€ 37,00	60 mm	12 mm	M16 x 1.5	7	46 mm	ø8 x 69 mm
P076/065	€ 41,00	65 mm	12 mm	M16 x 1.5	7	46 mm	ø8 x 69 mm
P076/070	€ 51,40	70 mm	12 mm	M16 x 1.5	8	46 mm	ø8 x 69 mm
P076/080	€ 58,50	80 mm	12 mm	M16 x 1.5	8	46 mm	ø8 x 69 mm
P076/085	€ 66,30	85 mm	12 mm	M16 x 1.5	9	46 mm	ø8 x 69 mm
P076/090	€ 77,00	90 mm	12 mm	M16 x 1.5	9	46 mm	ø8 x 69 mm
P076/095	€ 78,00	95 mm	12 mm	M16 x 1.5	10	46 mm	ø8 x 69 mm
P076/100	€ 83,70	100 mm	12 mm	M16 x 1.5	11	46 mm	ø8 x 69 mm
P076/110	€ 98,60	110 mm	12 mm	M16 x 1.5	11	46 mm	ø8 x 69 mm
P076/125	€ 109,00	125 mm	12 mm	M16 x 1.5	12	46 mm	ø8 x 69 mm
P076/150	€ 139,00	150 mm	12 mm	M16 x 1.5	15	46 mm	ø8 x 69 mm

P076-GX400
LONG ARBOR FOR HOLE CUTTERS FOR MASONRY

For item P076-



Art.	€	d	L	Thread	Sizes
P076/G12400	€ 20,60	10 mm	400 mm	M12 x 1.25	16-50
P076/G16400	€ 30,30	12 mm	400 mm	M16 x 1.5	55-150

P076/006S
€ 138,00
CARBIDE TIPPED MASONRY CORE DRILL BIT HOLE SAW SET

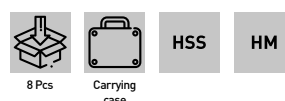
For drilling medium and large holes in the wall



Sizes 16 mm - 22 mm - 25 mm - 27 mm - 30 mm - 35 mm


P076/008S
€ 203,00
CARBIDE TIPPED MASONRY CORE DRILL BIT HOLE SAW SET

For drilling medium and large holes in the wall



Sizes 16 mm - 22 mm - 25 mm - 27 mm - 30 mm - 35 mm - 40 mm - 45 mm


P076-GX
ARBOR FOR CARBIDE TIPPED MASONRY CORE DRILLS BIT HOLE SAW

For item P076-



Art.	€	d	L	Thread	Sizes
P076/G12	€ 3,60	10 mm	46 mm	M12 x 1.25	16-50
P076/G16	€ 4,82	12 mm	46 mm	M16 x 1.5	55-150

P076-PX
CARBIDE TIPPED PILOT DRILL FOR HOLE CUTTERS FOR MASONRY

For item P076-



Art.	€	ø	Total length	Sizes	Pack
P076/P12	€ 1,54	6 mm	69 mm	16-50	10
P076/P16	€ 2,06	8 mm	69 mm	55-150	10

**P031-****DIAMOND DRILL BITS AND CORE DRILLS WITH CONTINUOUS EDGE**

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



Hangable



Ceramic



Granite



Marble



Stoneware



No Percussion



Water



Portable Drill

Art.	€	Size	Hex drive	Total length	Diamond height	Grit
P031/05	€ 15,40	Ø 5 mm	8.5 mm	56 mm	2 mm	50/60
P031/06	€ 15,90	Ø 6 mm	8.5 mm	56 mm	2 mm	50/60
P031/07	€ 17,00	Ø 7 mm	8.5 mm	56 mm	2 mm	50/60
P031/08	€ 18,00	Ø 8 mm	8.5 mm	56 mm	2 mm	50/60
P031/10	€ 20,60	Ø 10 mm	8.5 mm	56 mm	2 mm	50/60
P031/12	€ 21,60	Ø 12 mm	8.5 mm	56 mm	2 mm	50/60
P031/14	€ 24,60	Ø 14 mm	8.5 mm	56 mm	2 mm	50/60
P031/16	€ 29,80	Ø 16 mm	11 mm	90 mm	5 mm	35/40
P031/18	€ 30,80	Ø 18 mm	11 mm	90 mm	5 mm	35/40
P031/20	€ 34,90	Ø 20 mm	11 mm	90 mm	5 mm	35/40
P031/22	€ 38,00	Ø 22 mm	11 mm	90 mm	5 mm	35/40
P031/25	€ 43,10	Ø 25 mm	11 mm	90 mm	5 mm	35/40
P031/28	€ 46,20	Ø 28 mm	11 mm	90 mm	5 mm	35/40
P031/30	€ 51,40	Ø 30 mm	11 mm	90 mm	5 mm	35/40
P031/32	€ 55,40	Ø 32 mm	11 mm	90 mm	5 mm	35/40
P031/35	€ 59,50	Ø 35 mm	11 mm	90 mm	5 mm	35/40
P031/40	€ 67,80	Ø 40 mm	11 mm	90 mm	5 mm	35/40
P031/45	€ 76,00	Ø 45 mm	11 mm	90 mm	5 mm	35/40
P031/50	€ 85,30	Ø 50 mm	11 mm	90 mm	5 mm	35/40
P031/60	€ 106,00	Ø 60 mm	11 mm	90 mm	5 mm	35/40
P031/65	€ 115,00	Ø 65 mm	11 mm	90 mm	5 mm	35/40
P031/67	€ 124,00	Ø 67 mm	11 mm	90 mm	5 mm	35/40
P031/70	€ 136,00	Ø 70 mm	11 mm	90 mm	5 mm	35/40
P031/80	€ 156,00	Ø 80 mm	11 mm	90 mm	5 mm	35/40

P031/06P**€ 2,82****PILOT TIP**

For item P031-XL



Hangable



HSS



HM

Diameter	Ø 6 mm
Length	100 mm
Stem	Ø 5 mm
Pack	10

P031/03S**€ 51,40****DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET**

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



3 Pcs



Hangable

Sizes	Ø 6 mm - 8 mm - 10 mm
Hex drive	9.5 mm
Total length	56 mm
Diamond height	2 mm
Grit	50/60

P031/05S**€ 82,20****DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET**

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



5 Pcs



Hangable

Sizes	Ø 5 mm - 6 mm - 8 mm - 10 mm - 12 mm
Hex drive	8.5 mm
Total length	56 mm
Diamond height	2 mm
Grit	50/60

P031/06S**€ 246,00****DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET**

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



6 Pcs

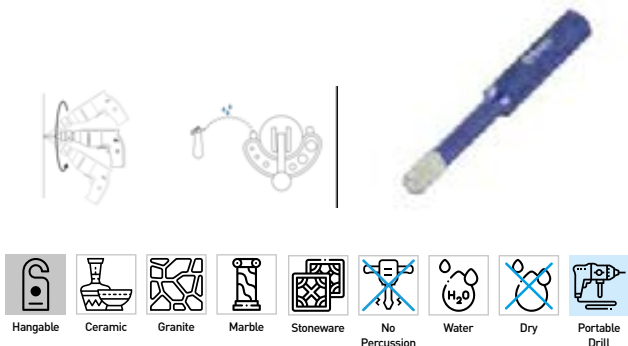


Hangable

Sizes	Ø 16 mm - 22 mm - 25 mm - 28 mm - 30 mm - 35 mm
Hex drive	11 mm
Total length	90 mm
Diamond height	5 mm
Grit	50/60

P033-
DIAMOND DRILL BITS WITH CONTINUOUS EDGE

Optimal operation on vertical walls, do not remove the core, which acts as a measuring cap for the coolant. Use with water cooling extends the useful life of the tool. The thin-walled diamond ring guarantees burr-free cuts. This feature facilitates drilling work on hard tiles in place, where it is necessary to make a clean hole



Art.	€	Size	Hex drive	Total length	Diamond height	Grit
P033/05	€ 25,60	Ø 5 mm	9.5 mm	80 mm	10 mm	40
P033/06	€ 25,60	Ø 6 mm	9.5 mm	80 mm	10 mm	40
P033/08	€ 25,60	Ø 8 mm	9.5 mm	80 mm	10 mm	40
P033/10	€ 27,70	Ø 10 mm	9.5 mm	80 mm	10 mm	40
P033/12	€ 30,80	Ø 12 mm	9.5 mm	80 mm	10 mm	40
P033/14	€ 32,90	Ø 14 mm	12.5 mm	80 mm	10 mm	40
P033/16	€ 38,00	Ø 16 mm	12.5 mm	80 mm	10 mm	40
P033/18	€ 43,10	Ø 18 mm	12.5 mm	80 mm	10 mm	40
P033/20	€ 48,30	Ø 20 mm	12.5 mm	80 mm	10 mm	40
P033/22	€ 52,40	Ø 22 mm	12.5 mm	80 mm	10 mm	40
P033/25	€ 59,50	Ø 25 mm	12.5 mm	80 mm	10 mm	40

P033/03S
€ 71,80
DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

Optimal operation on vertical walls, do not remove the core, which acts as a measuring cap for the coolant. Use with water cooling extends the useful life of the tool. The thin-walled diamond ring guarantees burr-free cuts. This feature facilitates drilling work on hard tiles in place, where it is necessary to make a clean hole



Sizes	Ø 6 mm - 8 mm - 10 mm
Hex drive	9.5 mm
Total length	80 mm
Diamond height	10 mm
Grit	40

P034/05S
€ 154,00
M14 DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



Sizes	Ø 6 mm - 8 mm - 10 mm - 12 mm - 14 mm
Total length	62 mm
Diamond height	10 mm
Grit	30/50

P034-
M14 DIAMOND DRILL BITS AND CORE DRILLS WITH CONTINUOUS EDGE

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



Art.	€	Size	Total length	Diamond height	Grit
P034/006	€ 30,30	Ø 6 mm	62 mm	10 mm	30/50
P034/008	€ 30,80	Ø 8 mm	62 mm	10 mm	30/50
P034/010	€ 30,80	Ø 10 mm	62 mm	10 mm	30/50
P034/012	€ 32,90	Ø 12 mm	62 mm	10 mm	30/50
P034/014	€ 36,00	Ø 14 mm	62 mm	10 mm	30/50
P034/016	€ 36,50	Ø 16 mm	62 mm	15 mm	30/50
P034/018	€ 37,00	Ø 18 mm	62 mm	15 mm	30/50
P034/020	€ 37,50	Ø 20 mm	60 mm	15 mm	30/50
P034/022	€ 38,00	Ø 22 mm	60 mm	15 mm	30/50
P034/025	€ 38,60	Ø 25 mm	60 mm	15 mm	30/50
P034/028	€ 42,10	Ø 28 mm	60 mm	15 mm	30/50
P034/030	€ 45,20	Ø 30 mm	60 mm	15 mm	30/50
P034/032	€ 48,30	Ø 32 mm	60 mm	15 mm	30/50
P034/035	€ 52,40	Ø 35 mm	60 mm	15 mm	30/50
P034/040	€ 60,60	Ø 40 mm	60 mm	15 mm	30/50
P034/045	€ 67,80	Ø 45 mm	60 mm	15 mm	30/50
P034/050	€ 72,90	Ø 50 mm	60 mm	15 mm	30/50
P034/055	€ 82,20	Ø 55 mm	60 mm	15 mm	30/50
P034/060	€ 90,30	Ø 60 mm	60 mm	15 mm	30/50
P034/065	€ 97,60	Ø 65 mm	60 mm	15 mm	30/50
P034/067	€ 101,00	Ø 67 mm	60 mm	15 mm	30/50
P034/070	€ 106,00	Ø 70 mm	60 mm	15 mm	30/50
P034/080	€ 120,00	Ø 80 mm	60 mm	15 mm	30/50
P034/090	€ 132,00	Ø 90 mm	60 mm	15 mm	30/50
P034/100	€ 163,00	Ø 100 mm	60 mm	15 mm	30/50

P034/06S
€ 383,00
M14 DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Sizes	Ø 22 mm - 35 mm - 40 mm - 45 mm - 50 mm - 67 mm
Total length	60 mm
Diamond height	15 mm
Grit	30/50

**P035-****DIAMOND DRILL BITS WITH CONTINUOUS EDGE**

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



Art.	€	Size	Stem	Total length	Diamond height	Grit
P035/05	€ 8,30	Ø 5 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/06	€ 8,30	Ø 6 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/08	€ 8,30	Ø 8 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/10	€ 8,30	Ø 10 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/12	€ 9,20	Ø 12 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/14	€ 10,20	Ø 14 mm	Ø 6 mm	65 mm	5 mm	60/80

P035/04S**€ 30,80****DIAMOND DRILL BIT SET WITH CONTINUOUS EDGE**

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



Sizes	Ø 5 mm - 6 mm - 8 mm - 10 mm
Stem	Ø 6 mm
Total length	65 mm
Diamond height	5 mm
Grit	60/80

0529**€ 39,10****DIAMOND CORE DRILL BIT SET**

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. longer useful life cycle



Drills	Ø 5 - 6 - 8 - 10 - 12 mm
Total length	60 mm
Cut length	30 mm
Diamond height	3 mm
Grit	70/80

D009/5-12**€ 28,70****DRILL SUCTION CUP WITH GUIDING HOLES**

Allows easy centering and cutting safety of the diamond tip in the various workable materials. To be used in conjunction with a nebulizer for water processing



Holes	4 mm - 5 mm - 6 mm - 7 mm - 8 mm - 10 mm - 12 mm
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D009/5-85**€ 43,10****DRILL SUCTION CUP WITH ADJUSTABLE HOLE FRAME**

Allows easy centering and cutting safety of the diamond tip in the various workable materials. To be used in conjunction with a nebulizer for water processing



Holes	5 - 85 mm
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D020**€ 26,30****DIAMOND MOUNTED POINT SET**

Suitable for engraving, writing or finishing thanks to the various geometries available



Stem	Ø 3 mm
Length	45 mm

D050**€ 51,60****DIAMOND MOUNTED POINT AND DISC SET**

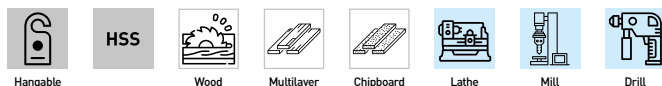
Suitable for engraving, writing or finishing thanks to the various geometries available



Stem	Ø 3 mm
Length	45 mm

P052-
BRAD POINT WOODWORKING DRILLS

DIN 7487, double helix, with centering tip allows exact positioning of the hole



Art.	€	ø	Total length	Flute length	Pack
P052/03	€ 0,88	3 mm	61 mm	33 mm	5
P052/04	€ 0,97	4 mm	75 mm	43 mm	5
P052/05	€ 1,17	5 mm	86 mm	52 mm	5
P052/06	€ 1,27	6 mm	93 mm	57 mm	5
P052/07	€ 1,56	7 mm	109 mm	69 mm	5
P052/08	€ 2,05	8 mm	117 mm	75 mm	5
P052/09	€ 2,34	9 mm	125 mm	81 mm	1
P052/10	€ 2,74	10 mm	133 mm	87 mm	1
P052/11	€ 3,61	11 mm	142 mm	94 mm	1
P052/12	€ 4,49	12 mm	151 mm	101 mm	1
P052/13	€ 5,20	13 mm	151 mm	101 mm	1
P052/14	€ 6,40	14 mm	160 mm	108 mm	1
P052/15	€ 7,60	15 mm	169 mm	114 mm	1
P052/16	€ 10,60	16 mm	178 mm	120 mm	1
P052/17	€ 12,20	17 mm	184 mm	125 mm	1
P052/18	€ 14,20	18 mm	191 mm	130 mm	1
P052/19	€ 16,10	19 mm	198 mm	135 mm	1
P052/20	€ 17,60	20 mm	205 mm	140 mm	1

P052/08S

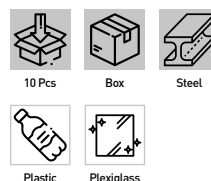
€ 13,60

BRAD POINT WOODWORKING DRILLS SET

DIN 7487, double helix, with centering tip allows exact positioning of the hole


0238

€ 12,10

HOLE SAW SET FOR WOOD


Sizes ø 22 - 29 - 32 - 38 - 44 - 51 - 57 - 67 mm

0463

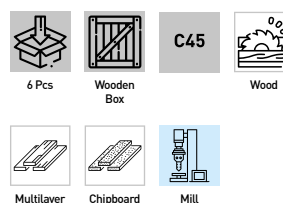
€ 21,80

TWIST DRILL SET WITH COUNTERSINK FOR WOOD

for countersinking the wood



Sizes 2 - 2,5 - 3 - 3,5 mm


0799-
MORTISING DRILL SET


Art.	€	Sizes	Revolution	Stem
0799/SXC	€ 68,00	ø 6 - 8 - 10 - 12 - 14 - 16 mm	L	ø 16 x 50 mm
0799/DXC	€ 68,00	ø 6 - 8 - 10 - 12 - 14 - 16 mm	R	ø 16 x 50 mm

0087

€ 43,90

UNIVERSAL CYLINDER CARBIDE TIPPED BORING BIT


Drills ø 15 - 20 - 26 - 30 - 35 mm


0087/35

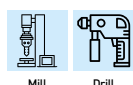
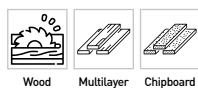
€ 11,10

UNIVERSAL CYLINDER CARBIDE TIPPED BORING BIT

 Boring bit ø 35 mm
Stem ø 10 mm


**0526****€ 31,20****TWIST DRILL AND COUNTERSINK SET WITH 1/4" HEX SHANK**

1/4" hex shank with countersink for wood



Drills	2,75 - 3,25 - 3,5 mm
Shank	1/4"

0524**€ 50,80****1/4" DR. DRILL BIT HOLDER SET**

To speed up the work by replacing the tips quickly



Sizes	3-3.5-4-4.5-5-5.5-6-6.5-8-10 mm
Shank	1/4"

0835/15**€ 53,60****CARBIDE TIPPED ROUTER BIT SET**

For professional woodworking such as edges, trimmings, grooves



Stem	Ø 6 mm
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0830**€ 232,00****CARBIDE TIPPED ROUTER BIT SET**

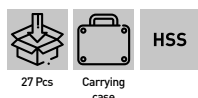
For professional woodworking such as edges, trimmings, grooves



Stem	Ø 6 mm
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0718**€ 269,00****CUTTER HEAD SET FOR MACHINE**

For creating profiles of various geometries on wood.

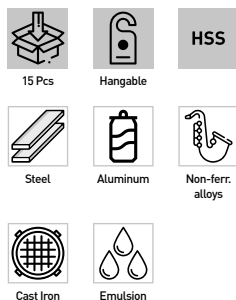


Head	Ø 100 x 40h mm
Hole	Ø 30 mm
Knives	26



M015S
€ 55,40
SPIRAL POINT TAP AND DRILL SET

With adjustable tap holder



Taps	M3 x 0,50 mm, M4 x 0,70 mm, M5 x 0,80 mm, M6 x 1,00 mm, M8 x 1,2
Drills	Ø2,5 mm, Ø3,3 mm, Ø4,2 mm, Ø5,0 mm, Ø6,8 mm, Ø8,5 mm, Ø10

M312/C
€ 65,90
MACHINE TAP SET FOR BLIND HOLES 35° WITH REINFORCED SHANK

With adjustable tap holder.



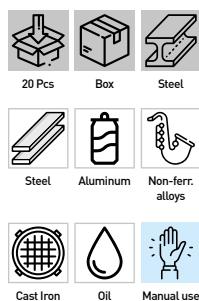
Size	M3 x 0,50 - M4 x 0,70 - M5 x 0,80 - M6 x 1 - M8 x 1,25 - M10 x 1,50 - M12 x 1,75
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M312/P
€ 60,60
MACHINE TAP SET FOR THROUGH HOLES WITH REINFORCED SHANK

With adjustable tap holder.



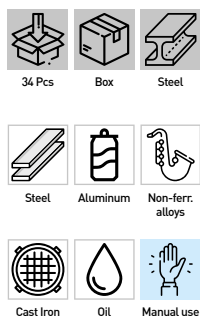
Size	M3 x 0,50 - M4 x 0,70 - M5 x 0,80 - M6 x 1 - M8 x 1,25 - M10 x 1,50 - M12 x 1,75
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M020
€ 30,60
TAP AND DIE SET


Tap holder	M3 - M12
Round die-stock	25 x 9 mm
Taps	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M7x1 - M8x1,25 - M10x1,5 - M12x1,75 - 1/8" NPT27
Dies	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M7x1 - M8x1,25 - M10x1,5 - M12x1,75 - 1/8" NPT27

M036
€ 59,40
TAP AND DIE SET

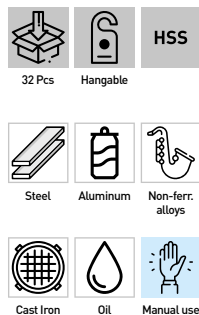
With twist drills and screw pitch gauge



Tap holder	M3 - M12
Round die-stock	25 x 9 mm
Taps	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M7x1 - M8x1,25 - M10x1,5 - M12
Dies	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M7x1 - M8x1,25 - M10x1,5 - M12
Drills	2,5 - 3,3 - 4,2 - 5 - 6 - 6,8 - 8,5 - 10,3 mm
Screwdriver	6,5 x 50 mm

M032
€ 110,00
TAP AND DIE METRIC SET

With round die-stock, adjustable tap holder and screw pitch gauge.



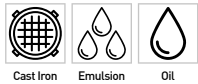
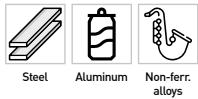
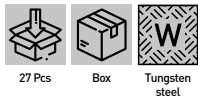
Taps	M3x0,5 M4x0,7 M5x0,8 M6x1 M8x1,25 M10x1,5 M12x1,75
Dies	M3x0,5 M4x0,7 M5x0,8 M6x1 M8x1,25 M10x1,5 M12x1,75
Screwdriver	3,5 x 50 mm

**M029**

€ 118,00

TAP AND DIE SET

With twist drills and ratchet tap-die holder



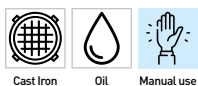
Ratchet handle	200 mm
Socket	Maschi 5 - 7,5 mm Filiere 25 x 9 mm
Taps	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M8x1,25 - M10x1,5 - M12x1,75
Dies	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M8x1,25 - M10x1,5 - M12x1,75
Drills	2,5 - 3,3 - 4,2 - 5 - 6,8 - 8,5 - 10,3 mm
Screwdriver	6,5 x 50 mm
Screwdriver	3 x 50 mm

M101

€ 109,00

TAPS AND DIE METRIC SET

Hand tap and die: M3x0,5 - UNC 1/4 20 - UNF 4 40 - Metric M4x0,7 - UNC 1/4 28 - UNF 6 32 - Metric M5x0,8 - UNC 5/16 18 - UNF 8 32 - Metric M6x1 - UNC 5/16 24 - UNF 10 32 - Metric M7x1 - UNC 3/8 16 - UNF 10 24 - Metric M8x1,25 - UNC 3/8 24 - UNF 12 24 - Metric M9x1,25 - UNC 7/16 14 - Metric M10x1,5 - UNC 7/16 20 - Metric M10x1 - UNC 1/2 13 - Metric M12x1,75 - UNC 1/2 20 - NPT 1/8 27. Complete with round die-stock and adjustable tap holder.

**M030**

€ 69,10

TAP AND DIE SET

From M1 to M2.5, with die turner and adapters to convert it into tap wrenches.



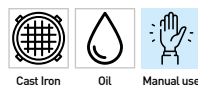
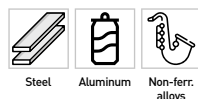
Size M1 - M1.1 - M1.2 - M1.4 - M1.6 - M1.8 - M2.0 - M2.2 - M2.5

M100

€ 146,00

TAP AND DIE METRIC SET

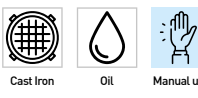
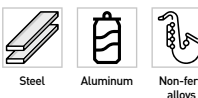
With round die-stock and adjustable tap holder. M6x0,75 - M6x1 - M8x1 - M8x1,25 - M10x1,25 - M10x1,5 - M12x1,5 - M12x1,75 - M14x1,5 - M14x2 - M16x1,5 - M16x2 - M18x1,5 - M18x2,5 - M20x1,5 - M20x2,5 - M22x1,5 - M22x2,5 - M24x1,5 - M24x3

**M218**

€ 235,00

TAP AND DIE METRIC SET

2 pcs hand tap set and die: M2 x 0,40 - M3 x 0,50 - M4 x 0,70 - M5 x 0,80 - M6 x 0,75 - M6 x 1 - M7 x 0,75 - M7 x 1 - M8 x 0,75 - M8 x 1 - M8 x 1,25 - M9 x 0,75 - M9 x 1 - M9 x 1,25 - M10 x 0,75 - M10 x 1 - M10 x 1,25 - M10 x 1,5 - M11 x 0,75 - M11 x 1 - M11 x 1,25 - M11 x 1,5 - M12 x 0,75 - M12 x 1 - M12 x 1,25 - M12 x 1,5 - M12 x 1,75 - M14 x 1 - M14 x 1,25 - M14 x 1,5 - M14 x 2 - M16 x 1 - M16 x 1,5 - M16 x 2 - M18 x 1,5. Complete with 2 tap holders and 2 round die-stocks.



TAPPING

TYPE OF GROOVES

STRAIGHT GROOVES CORRECT INLET

The correction of the inlet is given by a strong inclination of the helix combined with an accentuated angle of cut in the initial part of the tap. This design ensures the evacuation of chips in the direction of the feed. Therefore, when tapping through holes in materials that produce continuous chips, the risk of clogging and breakage is almost eliminated.



35° HIGH-TWIST HELICAL GROOVES

Inclined helical grooves facilitate chip extraction in the opposite direction to the tap feed. The strong inclination of the helix also ensures the extraction of chips from blind and deep holes reducing the risk of clogging and breakage.



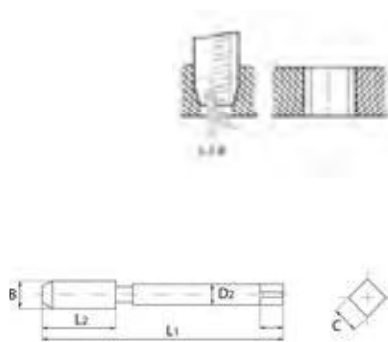
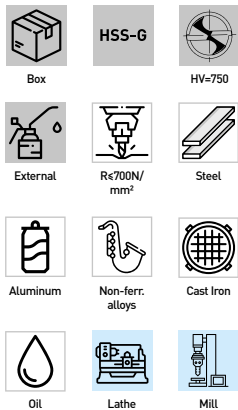
CHOICE OF THEORETICAL CUTTING SPEEDS OF MACHINE TAPS, ACCORDING TO THE MATERIAL TO BE THREADED



Material to work	Cutting speed (m / min)	Refrigerant
Low alloy construction steel R< 700÷900N/mm2	10 - 20	Oil
Tool steel	4 - 8	Oil
Alloy steel R< 1100÷1300N/mm2	2 - 5	Oil
Stainless steel	5 - 10	Oil
Spheroidal cast iron	6 - 20	No Lubrication.
Copper alloys	10 - 15	Oil
Brass	20 - 30	Oil
Bronze	6 - 15	Oil
Aluminium Short chip	15 - 30	Oil
Aluminium Long chip	10 - 20	Oil
Titanium	3 - 4	Oil
Plastics and thermoplastics	5 - 15	Water
Thermosetting Materials	5 - 10	No Lubrication

**M001-X****MACHINE TAPS STRAIGHT FLUTE, SPIRAL POINTED FOR THROUGH HOLES**

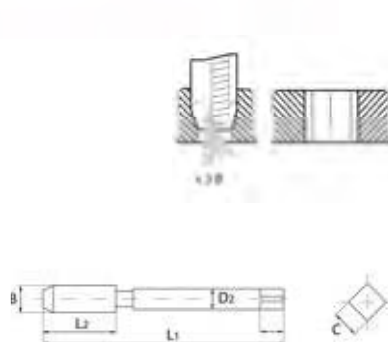
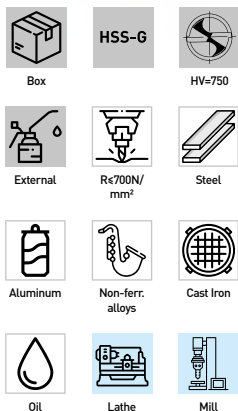
DIN 371/B, isometric thread coarse pitch - reinforced shank.



Art.	€	B	L2	L1	D2	C
M001/3	€ 5,80	M3 x 0,50	11 mm	56 mm	3.5 mm	2.7 mm
M001/4	€ 5,80	M4 x 0,70	13 mm	63 mm	4.5 mm	3.4 mm
M001/5	€ 7,10	M5 x 0,80	16 mm	70 mm	6 mm	4.9 mm
M001/6	€ 7,60	M6 x 1	19 mm	80 mm	6 mm	4.9 mm
M001/8	€ 9,30	M8 x 1,25	22 mm	90 mm	8 mm	6.2 mm
M001/10	€ 11,90	M10 x 1,5	24 mm	100 mm	10 mm	8 mm

M002-**MACHINE TAPS STRAIGHT FLUTE SPIRAL POINTED FOR THROUGH HOLES**

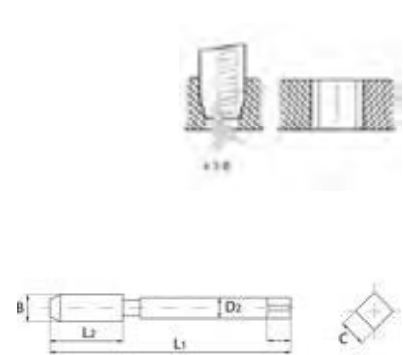
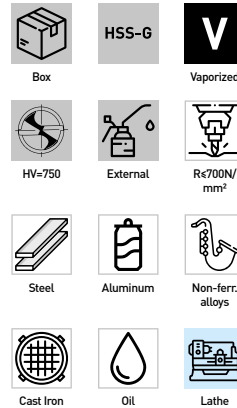
DIN 376/B, isometric thread coarse pitch.



Art.	€	B	L2	L1	D2	C
M002/12	€ 12,90	M12 x 1,75	29 mm	110 mm	9 mm	7 mm
M002/14	€ 16,70	M14 x 2	30 mm	110 mm	11 mm	9 mm
M002/16	€ 18,60	M16 x 2	32 mm	110 mm	12 mm	9 mm
M002/18	€ 28,80	M18 x 2,5	34 mm	125 mm	14 mm	11 mm
M002/20	€ 34,20	M20 x 2,5	34 mm	140 mm	16 mm	12 mm
M002/22	€ 47,90	M22 x 2,5	34 mm	140 mm	18 mm	14.5 mm
M002/24	€ 52,60	M24 x 3	38 mm	160 mm	18 mm	14.5 mm
M002/27	€ 73,60	M27 x 3	38 mm	160 mm	20 mm	16 mm
M002/30	€ 85,30	M30 x 3,5	45 mm	180 mm	22 mm	18 mm

M001-XV**MACHINE TAPS STRAIGHT FLUTE, SPIRAL POINTED FOR THROUGH HOLES**

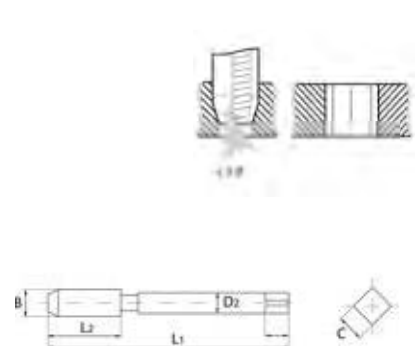
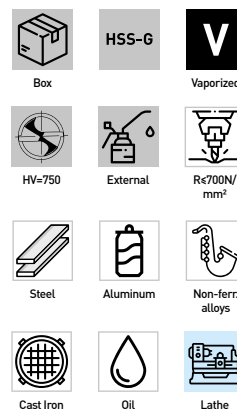
DIN 371/B, isometric thread coarse pitch - reinforced shank, the vaporization treatment increases the surface hardness and wear resistance by reducing the possibility of chip sticking.



Art.	€	B	L2	L1	D2	C
M001/03V	€ 7,30	M3 x 0,50	11 mm	56 mm	3.5 mm	2.7 mm
M001/04V	€ 7,30	M4 x 0,70	13 mm	63 mm	4.5 mm	3.4 mm
M001/05V	€ 8,10	M5 x 0,80	16 mm	70 mm	6 mm	4.9 mm
M001/06V	€ 8,80	M6 x 1	19 mm	80 mm	6 mm	4.9 mm
M001/08V	€ 11,10	M8 x 1,25	22 mm	90 mm	8 mm	6.2 mm
M001/10V	€ 13,90	M10 x 1,5	24 mm	100 mm	10 mm	8 mm

M002-XV**MACHINE TAPS STRAIGHT FLUTE SPIRAL POINTED FOR THROUGH HOLES**

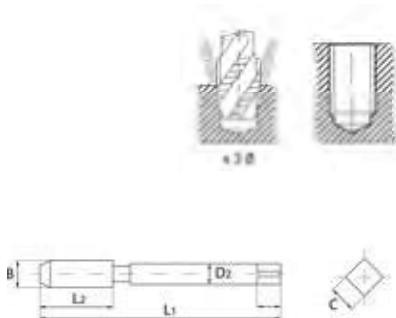
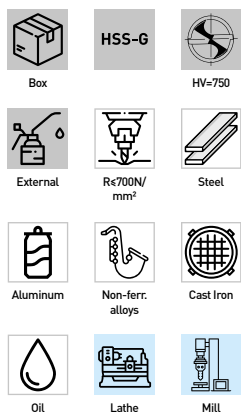
DIN 376/B, isometric thread coarse pitch - reinforced shank, the vaporization treatment increases the surface hardness and wear resistance by reducing the possibility of chip sticking.



Art.	€	B	L2	L1	D2	C
M002/12V	€ 14,50	M12 x 1,75	29 mm	110 mm	9 mm	7 mm
M002/14V	€ 19,10	M14 x 2	30 mm	110 mm	11 mm	9 mm
M002/16V	€ 21,80	M16 x 2	32 mm	110 mm	12 mm	9 mm
M002/18V	€ 30,80	M18 x 2,5	34 mm	125 mm	14 mm	11 mm
M002/20V	€ 38,80	M20 x 2,5	34 mm	140 mm	16 mm	12 mm

M003-
MACHINE TAPS SPIRAL FLUTE FOR BLIND HOLES 35°

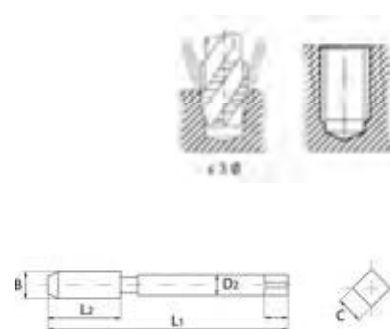
DIN 371/C, isometric thread coarse pitch - reinforced shank



Art.	€	B	L2	L1	D2	C
M003/3	€ 5,80	M3 x 0,50	11 mm	56 mm	3.5 mm	2.7 mm
M003/4	€ 5,80	M4 x 0,70	13 mm	63 mm	4.5 mm	3.4 mm
M003/5	€ 6,50	M5 x 0,80	16 mm	70 mm	6 mm	4.9 mm
M003/6	€ 8,10	M6 x 1	19 mm	80 mm	6 mm	4.9 mm
M003/8	€ 9,90	M8 x 1,25	22 mm	90 mm	8 mm	6.2 mm
M003/10	€ 12,20	M10 x 1,5	24 mm	100 mm	10 mm	8 mm

M003-XV
MACHINE TAPS SPIRAL FLUTE FOR BLIND HOLES 35°

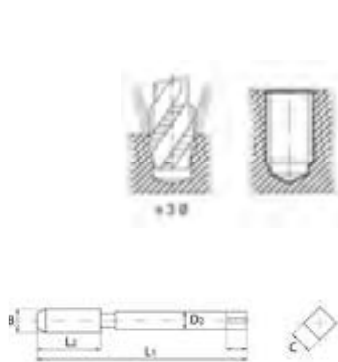
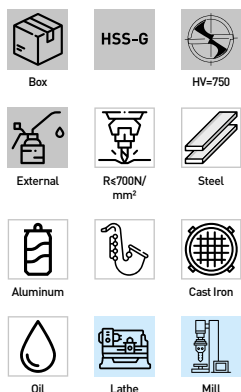
DIN 371 / C, isometric thread coarse pitch - reinforced shank, the vaporization treatment increases the surface hardness and wear resistance by reducing the possibility of chip sticking



Art.	€	B	L2	L1	D2	C
M003/03V	€ 7,30	M3 x 0,50	11 mm	56 mm	3.5 mm	2.7 mm
M003/04V	€ 7,30	M4 x 0,70	13 mm	63 mm	4.5 mm	3.4 mm
M003/05V	€ 8,70	M5 x 0,80	16 mm	70 mm	6 mm	4.9 mm
M003/06V	€ 9,90	M6 x 1	19 mm	80 mm	6 mm	4.9 mm
M003/08V	€ 11,40	M8 x 1,25	22 mm	90 mm	8 mm	6.2 mm
M003/10V	€ 14,30	M10 x 1,5	24 mm	100 mm	10 mm	8 mm

M003-XXX
MACHINE TAPS SPIRAL FLUTE FOR BLIND HOLES 35°

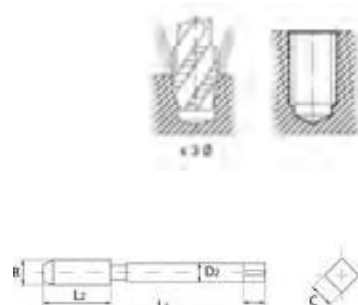
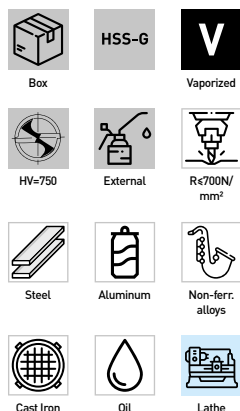
DIN 376/C, isometric thread coarse pitch



Art.	€	B	L2	L1	D2	C
M003/12	€ 13,30	M12 x 1,75	29 mm	110 mm	9 mm	7 mm
M003/14	€ 16,90	M14 x 2	30 mm	110 mm	11 mm	9 mm
M003/16	€ 19,40	M16 x 2	32 mm	110 mm	12 mm	9 mm
M003/18	€ 31,60	M18 x 2,5	34 mm	125 mm	14 mm	11 mm
M003/20	€ 34,70	M20 x 2,5	34 mm	140 mm	16 mm	12 mm
M003/22	€ 47,90	M22 x 2,5	34 mm	140 mm	18 mm	14.5 mm
M003/24	€ 52,50	M24 x 3	38 mm	160 mm	18 mm	14.5 mm
M003/27	€ 73,60	M27 x 3	38 mm	160 mm	20 mm	16 mm
M003/30	€ 85,30	M30 x 3,5	45 mm	180 mm	22 mm	18 mm

M003-XXV
MACHINE TAPS SPIRAL FLUTE FOR BLIND HOLES 35°

DIN 376/C, isometric thread coarse pitch - reinforced shank, the vaporization treatment increases the surface hardness and wear resistance by reducing the possibility of chip sticking.



Art.	€	B	L2	L1	D2	C
M003/12V	€ 16,90	M12 x 1,75	29 mm	110 mm	9 mm	7 mm
M003/14V	€ 19,10	M14 x 2	30 mm	110 mm	11 mm	9 mm
M003/16V	€ 22,70	M16 x 2	32 mm	110 mm	12 mm	9 mm
M003/18V	€ 30,80	M18 x 2,5	34 mm	125 mm	14 mm	11 mm
M003/20V	€ 38,80	M20 x 2,5	34 mm	140 mm	16 mm	12 mm

**0890-****3 IN 1 DRILLING-TAPPING-DEBURRING TOOL**

Thanks to the particular geometry in a single operation it is able to drill, thread and countersink



1° 2° 3°

**HSS**

Art.	€	Taps	Shank	Dimensions
0890/M3	€ 6,70	M3 x 0,5	1/4"	52 mm
0890/M4	€ 6,70	M4 x 0,7	1/4"	52 mm
0890/M5	€ 7,60	M5 x 0,8	1/4"	54 mm
0890/M6	€ 7,60	M6 x 1	1/4"	56 mm
0890/M8	€ 8,80	M8 x 1,25	1/4"	58 mm
0890/M10	€ 10,80	M10 x 1,5	1/4"	60 mm

G002-**ADJUSTABLE TAP HOLDER**

DIN 1814, With hardened jaws, a handle that can be unscrewed to carry out jobs with tight dimensions

**HSS-G**

Art.	€	Taps	Square
G002/1	€ 6,50	M1 ÷ M10	1,75 ÷ 5,5
G002/2	€ 9,60	M4 ÷ M12	2,4 ÷ 8 mm
G002/3	€ 13,30	M5 ÷ M20	2,7 ÷ 12

0890**€ 53,10****3 IN 1 DRILLING-TAPING-DEBURRING TOOL AND BIT SET**

Thanks to the particular geometry in a single operation it is able to drill, thread and countersink. With quick change holder



14 Pcs



Box

HSS

Steel



Aluminum



Non-ferr. alloys



Cast Iron



Magnetic Drill



Portable Drill

Taps	M3 x 0,5 - M4 x 0,7 - M5 x 0,8 - M6 x 1 - M8 x 1,25 - M10 x 1,5
Shank	1/4"
Phillips	1 - 2
Pozi-driv	1 - 2
Slotted	4 - 5 mm

G003-**RATCHET TAP HOLDER**

Right-handed, left-handed or in a fixed position



Blister

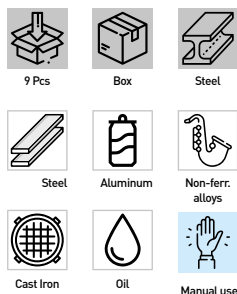
HSS-G

Art.	€	Taps	Square
G003/1	€ 11,90	M3 ÷ M 8	1,75 ÷ 5,5
G003/2	€ 14,50	M5 ÷ M 12	4 ÷ 8



F123
NEW € 48,60
ROUND DIE SET

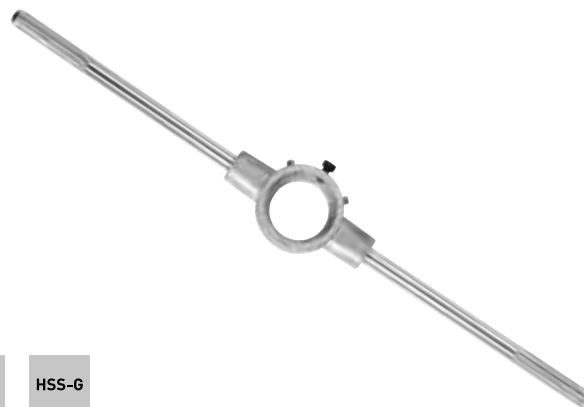
From M3 to M12, complete with round die-stock



Size	M3 - M4 - M5 - M6 - M8 - M10 - M12
Round die-stock	25 x 9 mm

G001-
ROUND DIE-STOCK

DIN 225, with 3 die fixing screws, 1 unscrewable handle to carry out jobs with tight dimensions



Art.	€	Die dimensions	For dies
G001/20	€ 6,50	20 x 7 mm	M4.5 ÷ M6
G001/25	€ 6,50	25 x 9 mm	M7 ÷ M9
G001/30	€ 8,00	30 x 11 mm	M10 ÷ M11
G001/38	€ 12,20	38 x 14 mm	M12 ÷ M14
G001/45	€ 13,90	45 x 18 mm	M16 ÷ M20
G001/55	€ 15,00	55 x 22 mm	M22 ÷ M24

F121-
METRIC DIE FOR COARSE PITCH

DIN 223, with correct entry on both sides to facilitate the execution of the thread and correctly evacuate the shavings in the cutting direction



Art.	€	Pitch	Dimensions
F121/03	€ 8,00	3 x 0,5 mm	Ø20 x 5 mm
F121/04	€ 8,00	4 x 0,7 mm	Ø20 x 5 mm
F121/05	€ 9,10	5 x 0,8 mm	Ø20 x 7 mm
F121/06	€ 10,50	6 x 1 mm	Ø20 x 7 mm
F121/08	€ 10,50	8 x 1,25 mm	Ø25 x 9 mm
F121/10	€ 12,00	10 x 1,5 mm	Ø30 x 11 mm
F121/12	€ 13,90	12 x 1,75 mm	Ø38 x 14 mm
F121/14	€ 19,60	14 x 2 mm	Ø38 x 14 mm
F121/16	€ 23,00	16 x 2 mm	Ø45 x 18 mm
F121/18	€ 26,70	18 x 2,5 mm	Ø45 x 18 mm
F121/20	€ 28,30	20 x 2,5 mm	Ø45 x 18 mm

F122-
DIE GAS THREAD

DIN 5158/B, with correct entry on both sides to facilitate the execution of the thread and correctly evacuate the shavings in the cutting direction



Art.	€	Pitch	Dimensions
F122/1/8	€ 10,40	G1/8-28	Ø30 x 11 mm
F122/1/4	€ 18,10	G1/4-19	Ø38 x 10 mm
F122/3/8	€ 22,50	G3/8-19	Ø45 x 14 mm
F122/1/2	€ 24,20	G1/2-14	Ø45 x 14 mm
F122/5/8	€ 43,30	G5/8-14	Ø55 x 16 mm
F122/3/4	€ 47,50	G3/4-14	Ø55 x 16 mm
F122/7/8	€ 52,60	G7/8-14	Ø65 x 18 mm
F122/1	€ 53,10	G1-11	Ø65 x 18 mm

F-COIL THREAD RESTORER RANGE

It is essential for reinforcing threads in materials with reduced resistance (aluminium, aluminium alloys or magnesium). The industrial sectors where it is most used are: mechanical and building development, automotive industry, medical and electronic equipment, as well as aerospace and aeronautical construction. Tapping reinforcement eliminates wear on the tapping itself, allowing frequent use of the thread. It is essential for the economical and lasting restoration of worn or discarded threads during manufacture.

RESTORATION AND LAYING PROCEDURE

1st operation Knowing the type of damaged thread

Knowledge of the type of damaged thread so that the appropriate kit can be purchased to restore it.



2nd operation Drilling execution with specific drill tip

Drilling for removal of the damaged thread and thread preparation for the new F-Coil thread insert



3rd operation Tapping execution for preparation of F-Coil thread housing

Execution of the tapping operation with the specific tap for creating the housing for the F-Coil thread insert.



4th operation Screw in the Coil insert with the appropriate tool

Screw in the F-Coil insert with the F-Coil mounting tool to the required depth. If one helix is not enough, you can add more helix up to the necessary depth. The application of thread-locking glue is recommended to avoid possible disassembly of the F-Coil



5th operation Breaking of the driving notch with a special cutter

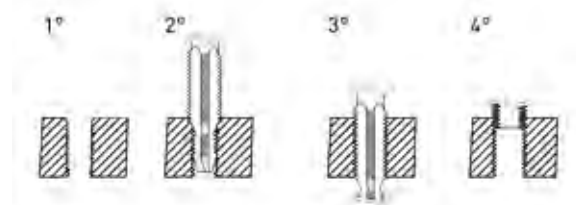
Once the thread-insert has been installed, break off the retention stud bolt. In order to break it, the specific breaking tool must be used. From a thread size of M14 onwards, it is possible to perform this operation with the use of a clamp where the pitch size permits.



REPAIR THREADS FOR SPARK PLUG SEATS

To restore damaged spark plug seats the procedure is different: Threading is carried out directly on the damaged thread with the special tap supplied with the KIT. The F-COIL thread bushing is then inserted and must be screwed in completely up to the stop.

The application of thread-locking adhesive is recommended.



COMPOSITION OF THE THREAD REPAIR KIT

1	Stainless steel threaded inserts to be inserted in the tapping performed by recreating the previously damaged thread (Available in 1xØ, 1.5xØ, 2xØ, 2.5xØ and 3xØ lengths)		
2	Helical HSS bit for making the pre-hole for the tap		
3	Specific tap for tapping for the application of the threaded insert		
4	Tool for mounting F-Coil threaded inserts	For threaded inserts up to M24	
		For M26 inserts	
5	Specific tool for breaking the F-Coil tang		



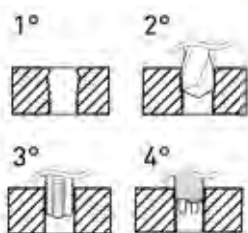


E010

€ 123,00

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



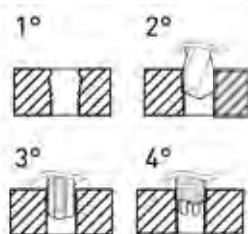
Sizes	M5 - M12
STI Taps	M5 x 0.8 - M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75
Drills	5.2 mm - 6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M5=25 M6=25 M8=25 M10=25 M12=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E010E

€ 107,00

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



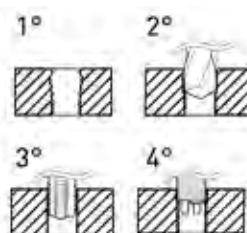
Sizes	M5 - M12
STI Taps	M5 x 0.8 - M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75
Drills	5.2 mm - 6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M5=25 M6=25 M8=25 M10=25 M12=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E010B

€ 159,00

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials

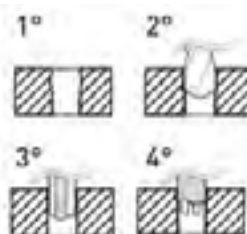


Sizes	M6 - M14
STI Taps	M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75 - M14 x 1.25
Drills	6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M6=25 M8=25 M10=20 M12=15 M14=25
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E010-

THREAD REPAIR INSERT SET

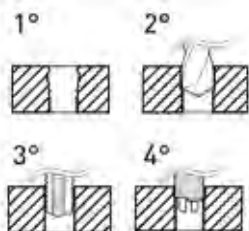
Suitable for thread regeneration or to obtain very resistant tapping in soft materials



Art.	€	Thread insert	Boring bit	Taps	Handle
E010/M05	€ 27,10	M5	5,2 mm	x M5	2
E010/M06	€ 29,40	M6	6,3 mm	x M6	2
E010/M08	€ 32,40	M8	8,3 mm	x M8	2
E010/M10	€ 39,10	M10	10,4 mm	x M10	2
E010/M12	€ 41,40	M12	12,4 mm	x M12	2
E010/M14	€ 49,50	M14 x 1,25	14,4 mm	x M14 x 1,25	2

E011A
€ 164,00
METRIC THREAD REPAIR F-COIL SET

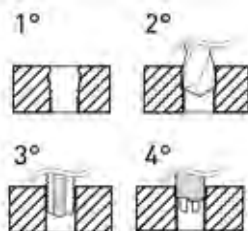
Suitable for thread regeneration or to obtain very resistant tapping in soft materials



Sizes	M5 - M12
STI Taps	M5 x 0.8 - M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75
Drills	5.2 mm - 6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M5=25 M6=25 M8=25 M10=25 M12=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E011B
€ 192,00
METRIC THREAD REPAIR F-COIL SET

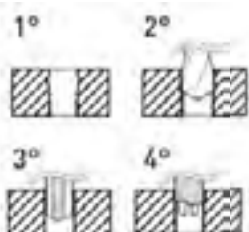
Suitable for thread regeneration or to obtain very resistant tapping in soft materials



Sizes	M6 - M14
STI Taps	M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75 - M14 x 1.25
Drills	6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M6=25 M8=25 M10=25 M12=10 M14=10
Inserting tool	5 Pcs
Tang break tool	4 Pcs

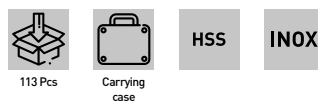
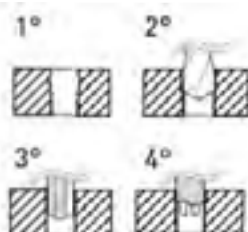
E011C
€ 113,00
METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



Sizes	M6 - M10
STI Taps	M6 x 1.0 - M8 x 1.25 - M10 x 1.5
Drills	6.3 mm - 8.3 mm - 10.4 mm
Wire-thread inserts	M6 25 Pcs - M8 25 Pcs - M10 25 Pcs
Inserting tool	3 Pcs
Tang break tool	3 Pcs

E011D
€ 203,00
METRIC THREAD REPAIR F-COIL SET

 Suitable for thread regeneration or to obtain very resistant tapping in soft materials.
14mm size specific for car spark plugs


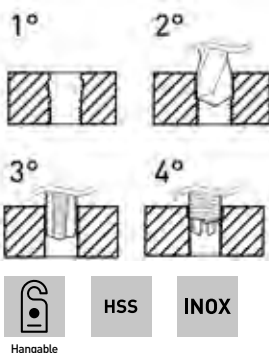
Sizes	M6 - M14
STI Taps	M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75 - M14 x 1.25
Drills	6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M6 25 Pcs - M8 25 Pcs - M10 25 Pcs - M12 10 Pcs - M14 10 Pcs
Inserting tool	5 Pcs
Tang break tool	4 Pcs



E011-MX1

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials

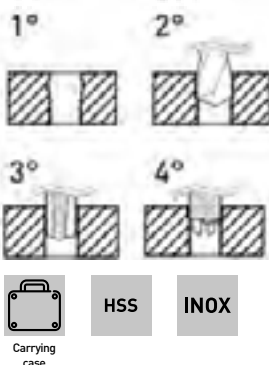


Art.	€	Dimensions	Boring bit	STI Taps	Inserting tool	Tang break tool	Inserts quantity
E011/M020X040	€ 26,20	M 2 x 0.4	Ø 2.1 mm	E011/M020X040M	E011/U02	E011/A02	20
E011/M025X045	€ 26,20	M 2.5 x 0.45	Ø 2.6 mm	E011/M025X045M	E011/U03	E011/A03	20
E011/M030X050	€ 26,20	M 3 x 0.5	Ø 3.2 mm	E011/M030X050M	E011/U04	E011/A04	20
E011/M035X060	€ 26,20	M 3.5 x 0.6	Ø 3.7 mm	E011/M035X060M	E011/U05	E011/A05	20
E011/M040X070	€ 26,20	M 4 x 0.7	Ø 4.2 mm	E011/M040X070M	E011/U06	E011/A06	20
E011/M050X080	€ 27,10	M 5 x 0.8	Ø 5.2 mm	E011/M050X080M	E011/U08	E011/A08	20
E011/M060X100	€ 28,80	M 6 x 1.0	Ø 6.3 mm	E011/M060X100M	E011/U09	E011/A09	20
E011/M070X100	€ 35,70	M 7 x 1.0	Ø 7.3 mm	E011/M070X100M	E011/U10	E011/A11	20
E011/M080X100	€ 35,70	M 8 x 1.0	Ø 8.3 mm	E011/M080X100M	E011/U11	E011/A11	20
E011/M080X125	€ 35,70	M 8 x 1.25	Ø 8.3 mm	E011/M080X125M	E011/U11	E011/A11	20
E011/M090X100	€ 35,70	M 9 x 1.0	Ø 9.3 mm	E011/M090X100M	E011/U12	E011/A12	10
E011/M090X125	€ 40,10	M 9 x 1.25	Ø 9.3 mm	E011/M090X125M	E011/U12	E011/A12	15
E011/M100X100	€ 38,30	M 10 x 1.0	Ø 10.3 mm	E011/M100X100M	E011/U13	E011/A13	15
E011/M100X125	€ 38,30	M 10 x 1.25	Ø 10.3 mm	E011/M100X125M	E011/U13	E011/A13	15
E011/M100X150	€ 38,30	M 10 x 1.5	Ø 10.4 mm	E011/M100X150M	E011/U13	E011/A13	15
E011/M110X150	€ 42,60	M 11 x 1.5	Ø 11.4 mm	E011/M110X150M	E011/U14	E011/A14	10
E011/M120X100	€ 42,60	M 12 x 1.0	Ø 12.3 mm	E011/M120X100M	E011/U15	E011/A15	10
E011/M120X125	€ 42,60	M 12 x 1.25	Ø 12.3 mm	E011/M120X125M	E011/U15	E011/A15	10
E011/M120X150	€ 42,60	M 12 x 1.5	Ø 12.4 mm	E011/M120X150M	E011/U15	E011/A15	10
E011/M120X175	€ 42,60	M 12 x 1.75	Ø 12.4 mm	E011/M120X175M	E011/U15	E011/A15	10
E011/M140X100	€ 49,50	M 14 x 1.0	-	E011/M140X100M	E011/U16	-	10
E011/M140X125	€ 49,50	M 14 x 1.25	-	E011/M140X125M	E011/U16	-	10
E011/M140X150	€ 49,50	M 14 x 1.5	-	E011/M140X150M	E011/U17	-	10
E011/M140X200	€ 49,50	M 14 x 2.0	-	E011/M140X200M	E011/U17	-	10
E011/M160X150	€ 58,20	M 16 x 1.5	-	E011/M160X150M	E011/U18	-	10
E011/M160X200	€ 58,20	M 16 x 2.0	-	E011/M160X200M	E011/U18	-	10
E011/M180X150	€ 68,60	M 18 x 1.5	-	E011/M180X150M	E011/U20	-	5
E011/M180X200	€ 68,60	M 18 x 2.0	-	E011/M180X200M	E011/U20	-	5
E011/M180X250	€ 68,60	M 18 x 2.5	-	E011/M180X250M	E011/U20	-	5
E011/M200X150	€ 74,60	M 20 x 1.5	-	E011/M200X150M	E011/U21	-	5
E011/M200X200	€ 74,60	M 20 x 2.0	-	E011/M200X200M	E011/U21	-	5
E011/M200X250	€ 74,60	M 20 x 2.5	-	E011/M200X250M	E011/U21	-	5
E011/M220X150	€ 85,00	M 22 x 1.5	-	E011/M220X150M	E011/U22	-	5
E011/M220X200	€ 85,00	M 22 x 2.0	-	E011/M220X200M	E011/U22	-	5
E011/M220X250	€ 85,00	M 22 x 2.5	-	E011/M220X250M	E011/U22	-	5
E011/M240X150	€ 96,30	M 24 x 1.5	-	E011/M240X150M	E011/U23	-	5
E011/M240X200	€ 96,30	M 24 x 2.0	-	E011/M240X200M	E011/U23	-	5
E011/M240X300	€ 96,30	M 24 x 3.0	-	E011/M240X300M	E011/U23	-	5

E011-MX2

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



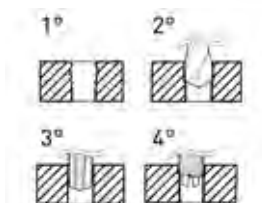
Art.	€	Dimensions	STI Taps	Inserting tool	Wire-thread inserts	Inserts quantity
E011/M260X150	€ 274,00	M 26 x 1.5	E011/M260X150M	E011/UM260X150	E010/M260X150E15	10
E011/M270X150	€ 274,00	M 27 x 1.5	E011/M270X150M	E011/UM270X150	E010/M270X150E15	10
E011/M270X200	€ 274,00	M 27 x 2.0	E011/M270X200M	E011/UM270X200	E010/M270X200E15	10
E011/M270X300	€ 274,00	M 27 x 3.0	E011/M270X300M	E011/UM270X300	E010/M270X300E15	10
E011/M280X150	€ 274,00	M 28 x 1.5	E011/M280X150M	E011/UM280X150	E010/M280X150E15	10
E011/M300X150	€ 326,00	M 30 x 1.5	E011/M300X150M	E011/UM300X150	E010/M300X150E15	10
E011/M300X200	€ 326,00	M 30 x 2.0	E011/M300X200M	E011/UM300X200	E010/M300X200E15	10
E011/M300X350	€ 326,00	M 30 x 3.5	E011/M300X350M	E011/UM300X350	E010/M300X350E15	10
E011/M330X200	€ 336,00	M 33 x 2.0	E011/M330X200M	E011/UM330X200	E010/M330X200E15	10
E011/M330X350	€ 336,00	M 33 x 3.5	E011/M330X350M	E011/UM330X350	E010/M330X350E15	10
E011/M360X150	€ 359,00	M 36 x 1.5	E011/M360X150M	E011/UM360X150	E010/M360X150E15	10
E011/M360X200	€ 359,00	M 36 x 2.0	E011/M360X200M	E011/UM360X200	E010/M360X200E15	10
E011/M360X300	€ 359,00	M 36 x 3.0	E011/M360X300M	E011/UM360X300	E010/M360X300E15	10
E011/M360X400	€ 359,00	M 36 x 4.0	E011/M360X400M	E011/UM360X400	E010/M360X400E15	10
E011/M390X300	€ 456,00	M 39 x 3.0	E011/M390X300M	E011/UM390X300	E010/M390X300E15	10
E011/M390X400	€ 522,00	M 39 x 4.0	E011/M390X400M	E011/UM390X400	E010/M390X400E15	10
E011/M400X300	€ 522,00	M 40 x 3.0	E011/M400X300M	E011/UM400X300	E010/M400X300E15	10
E011/M420X300	€ 522,00	M 42 x 3.0	E011/M420X300M	E011/UM420X300	E010/M420X300E15	10
E011/M420X450	€ 700,00	M 42 x 4.5	E011/M420X450M	E011/UM420X450	E010/M420X450E15	10
E011/M450X300	€ 633,00	M 45 x 3.0	E011/M450X300M	E011/UM450X300	E010/M450X300E15	10
E011/M450X450	€ 722,00	M 45 x 4.5	E011/M450X450M	E011/UM450X450	E010/M450X450E15	10
E011/M480X300	€ 633,00	M 48 x 3.0	E011/M480X300M	E011/UM480X300	E010/M480X300E15	10
E011/M480X500	€ 884,00	M 48 x 5.0	E011/M480X500M	E011/UM480X500	E010/M480X500E15	10
E011/M500X300	€ 700,00	M 50 x 3.0	E011/M500X300M	E011/UM500X300	E010/M500X300E15	10
E011/M520X300	€ 945,00	M 52 x 3.0	E011/M520X300M	E011/UM520X300	E010/M520X300E15	10
E011/M520X500	€ 1100,00	M 52 x 5.0	E011/M520X500M	E011/UM520X500	E010/M520X500E15	10

E011-MXC
SPARK PLUG METRIC THREAD REPAIR F-COIL SET

Specific for repairs or reinforcement of spark plug seats



Art.	€	Size	Inserting tool	STI Taps	Wire-thread inserts
E011/M060X100C	€ 41,60	M 6 x 1.0	E011/U09	E011/M060X100M	10
E011/M080X125C	€ 41,60	M 8 x 1.25	E011/U11	E011/M080X125M	10
E011/M100X100C	€ 44,10	M 10 x 1.0	E011/U13	E011/M100X100M	10
E011/M100X125C	€ 44,10	M 10 x 1.25	E011/U13	E011/M100X125M	10
E011/M100X150C	€ 44,10	M 10 x 1.5	E011/U13	E011/M100X150M	10
E011/M120X125C	€ 52,20	M 12 x 1.25	E011/U15	E011/M120X125M	10
E011/M140X125C	€ 59,30	M 14 x 1.25	E011/U17	E011/M140X125M	5 x E010/M140X125E084 - 5 x E010/M140X125E124 - 5 x E010/M140X


E010-MXEXC
STAINLESS STEEL THREAD REPAIR INSERT

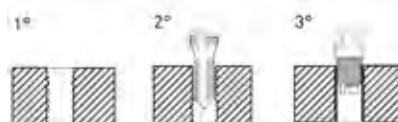
Specific for repairs or reinforcement of spark plug seats. With rhomboidal section, with spring shape, which creates two perfectly concentric threads; an external one that mates with the threaded hole previously made and an internal one that receives the screw



Art.	€	Dimensions	H	Pack
E010/M140X125E084	€ 0,76	M 14 x 1.25	8.4 mm	10
E010/M140X125E124	€ 0,68	M 14 x 1.25	12.4 mm	10
E010/M140X125E164	€ 0,75	M 14 x 1.25	16.4 mm	10


E011/M140X125B
€ 63,10
METRIC SPARK PLUG SOLID THREAD REPAIR SET

Specific for repairs or reinforcement of spark plug seats


E011-M140X125EX
SOLID THREAD INSERT SPARK PLUG SET

Specific for repairs or reinforcement of spark plug seats



Art.	€	Size	H	Pack
E011/M140X125E095	€ 3,72	M 14 x 1.25	9.5 mm	10
E011/M140X125E112	€ 3,90	M 14 x 1.25	11.2 mm	10
E011/M140X125E127	€ 3,90	M 14 x 1.25	12.7 mm	10
E011/M140X125E175	€ 4,15	M 14 x 1.25	17.5 mm	10



STI Taps	E011/M140X125MCB
Wire-thread inserts	4 x H 9.5 mm - 4 x H 11.2 mm - 4 x H 12.7 mm - 4 x H 17.5 mm

E011/MC
€ 184,00
METRIC GLOW PLUG SOLID THREAD REPAIR SET

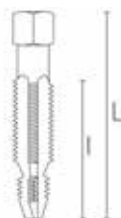
Specific for repairs or reinforcement of glow plug seats


E011/M140X125MCB
€ 37,20
METRIC COMBINED TAP FOR SOLID INSERT

Specific for the creation of reset threads on spark plug seats



Size	M 16 x 1.25
Hexagon	18 mm
L	70 mm
l	32 mm



Sizes	8 mm - 10 mm - 12 mm
STI Taps	M8x1 - M10x1 - M10x1.25 - M12x1 - M12x1.25 - M14x1.25



E011/BSW

€ 218,00

1/4-1/2 BSW THREAD REPAIR F-COIL SET

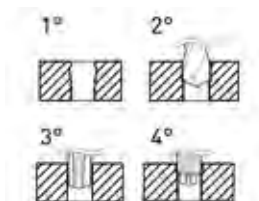
Suitable for thread regeneration or to obtain very resistant tapping in soft materials



HSS

INOX

Sizes	BSW 1/4" - 1/2"
STI Taps	1/4"x20-5/16"x18-3/8"x16-7/16"x14-1/2"x12
Drills	6.6 mm - 8.3 mm - 9.9 mm - 11.5 mm - 13.0 mm
Wire-thread inserts	1/4"=25 5/16"=25 3/8"=25 7/16"=10 1/2"=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs



E011-BSWX

BSW THREAD REPAIR F-COIL SET

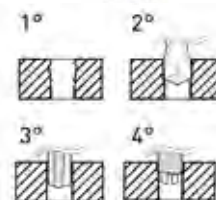
Suitable for thread regeneration or to obtain very resistant tapping in soft materials



HSS

INOX

Art.	€	Thread	Boring bit	STI Taps	Inserting tool	Tang break tool	Wire-thread inserts	Inserts quantity
E011/BSW1/8	€ 34,20	1/8" x 40	Ø 3.4 mm	E011/BSW1/8M	E011/U04	E011/A4	E010/BSW1/8E15	20
E011/BSW3/16	€ 34,20	3/16" x 24	Ø 5.0 mm	E011/BSW3/16M	E011/U08	E011/A8	E010/BSW3/16E15	20
E011/BSW1/4	€ 31,10	1/4" x 20	Ø 6.7 mm	E011/BSW1/4M	E011/U09	E011/A9	E010/BSW1/4E15	20
E011/BSW5/16	€ 37,50	5/16" x 18	Ø 8.3 mm	E011/BSW5/16M	E011/U10	E011/A11	E010/BSW5/16E15	20
E011/BSW3/8	€ 39,90	3/8" x 16	Ø 9.9 mm	E011/BSW3/8M	E011/U12	E011/A12	E010/BSW3/8E15	15
E011/BSW7/16	€ 44,40	7/16" x 14	Ø 11.5 mm	E011/BSW7/16M	E011/U14	E011/A14	E010/BSW7/16E15	10
E011/BSW1/2	€ 48,40	1/2" x 12	Ø 13.0 mm	E011/BSW1/2M	E011/U15	E011/A15	E010/BSW1/2E15	10
E011/BSW9/16	€ 63,90	9/16" x 12	-	E011/BSW9/16M	E011/U16	-	E010/BSW9/16E15	10
E011/BSW5/8	€ 63,90	5/8" x 11	-	E011/BSW5/8M	E011/U18	-	E010/BSW5/8E15	10
E011/BSW3/4	€ 80,80	3/4" x 10	-	E011/BSW3/4M	E011/U20	-	E010/BSW3/4E15	5
E011/BSW7/8	€ 97,60	7/8" x 9	-	E011/BSW7/8M	E011/U22	-	E010/BSW7/8E15	5
E011/BSW1	€ 93,20	1" x 8	-	E011/BSW1M	E011/U23	-	E010/BSW1E15	4



E011/BSF

€ 218,00

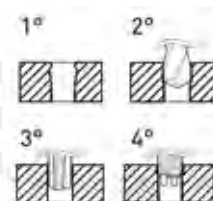
1/4-1/2 BSF THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



HSS

Sizes	BSF 1/4" - 1/2"
STI Taps	1/4"x26-5/16"x22-3/8"x20-7/16"x18-1/2"x16
Drills	6.6 mm - 8.3 mm - 9.9 mm - 11.5 mm - 13.0 mm
Wire-thread inserts	1/4"=25 5/16"=25 3/8"=25 7/16"=10 - 1/2"=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs



E011-BSFX

BSF THREAD REPAIR F-COIL SET

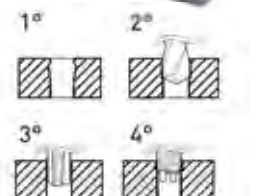
Suitable for thread regeneration or to obtain very resistant tapping in soft materials



HSS

INOX

Art.	€	Thread	Boring bit	STI Taps	Inserting tool	Tang break tool	Wire-thread inserts	Inserts quantity
E011/BSF3/16	€ 34,20	3/16" x 32	Ø 5.0 mm	E011/BSF3/16M	E011/U07	E011/A06	E010/BSF3/16E15	20
E011/BSF1/4	€ 31,10	1/4" x 26	Ø 6.6 mm	E011/BSF1/4M	E011/U09	E011/A09	E010/BSF1/4E15	20
E011/BSF5/16	€ 37,50	5/16" x 22	Ø 8.3 mm	E011/BSF5/16M	E011/U11	E011/A11	E010/BSF5/16E15	20
E011/BSF3/8	€ 39,90	3/8" x 20	Ø 9.9 mm	E011/BSF3/8M	E011/U13	E011/A13	E010/BSF3/8E15	15
E011/BSF7/16	€ 44,40	7/16" x 18	Ø 11.5 mm	E011/BSF7/16M	E011/U14	E011/A14	E010/BSF7/16E15	10
E011/BSF1/2	€ 48,40	1/2" x 16	Ø 13.0 mm	E011/BSF1/2M	E011/U15	E011/A15	E010/BSF1/2E15	10
E011/BSF9/16	€ 63,90	9/16" x 16	-	E011/BSF9/16M	E011/U16	-	E010/BSF9/16E15	10
E011/BSF5/8	€ 63,90	5/8" x 14	-	E011/BSF5/8M	E011/U18	-	E010/BSF5/8E15	10
E011/BSF3/4	€ 80,80	3/4" x 12	-	E011/BSF3/4M	E011/U20	-	E010/BSF3/4E15	5
E011/BSF7/8	€ 97,60	7/8" x 11	-	E011/BSF7/8M	E011/U22	-	E010/BSF7/8E15	5
E011/BSF1	€ 93,20	1" x 10	-	E011/BSF1M	E011/U23	-	E010/BSF1E15	4



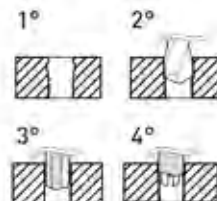
E011-BSPX

BSP THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



Art.	€	Thread	Taps	Wire-thread inserts	Inserts quantity
E011/BSP1/8	€ 69,60	1/8" x 28	E011/BSP1/8M	E010/BSP1/8ME15	10
E011/BSP1/4	€ 78,40	1/4" x 19	E011/BSP1/4M	E010/BSP1/4ME15	10
E011/BSP3/8	€ 86,10	3/8" x 19	E011/BSP3/8M	E010/BSP3/8ME15	10
E011/BSP1/2	€ 110,00	1/2" x 14	E011/BSP1/2M	E010/BSP1/2ME15	10
E011/BSP5/8	€ 224,00	5/8" x 14	E011/BSP5/8M	E010/BSP5/8ME15	10
E011/BSP3/4	€ 224,00	3/4" x 14	E011/BSP3/4M	E010/BSP3/4ME15	10
E011/BSP7/8	€ 311,00	7/8" x 14	E011/BSP7/8M	E010/BSP7/8ME15	10
E011/BSP1	€ 314,00	1" x 11	E011/BSP1M	E010/BSP1ME15	10



E011/UNC

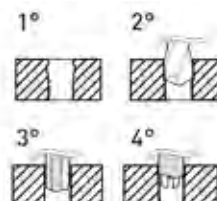
€ 218,00

1/4-1/2 UNC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



Sizes	UNC 1/4" - 1/2"
STI Taps	1/4"x20-5/16"x18-3/8"x16-7/16"x14-1/2"x13
Drills	6.7 mm - 8.6.7 mm - 8.3 mm - 9.9 mm - 11.6 mm - 13.0 mm 3 mm - 9.
Wire-thread inserts	1/4"=25 5/16"=25 3/8"=25 7/16"=10 1/2"=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs



E011-UNCX

UNC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials

Art.	€	Thread	Drills	STI Taps	Inserting tool	Tang break tool	Wire-thread inserts	Inserts quantity
E011/UNCN02	€ 36,80	No. 2 x 56	Ø 2.4 mm	E011/UNCN02M	E011/U02	E011/A02	E010/UNCN02E15	20
E011/UNCN04	€ 33,40	No. 4 x 40	Ø 3.1 mm	E011/UNCN04M	E011/U04	E011/A04	E010/UNCN04E15	20
E011/UNCN05	€ 33,40	No. 5 x 40	Ø 3.4 mm	E011/UNCN05M	E011/U04	E011/A04	E010/UNCN05E15	20
E011/UNCN06	€ 33,40	No. 6 x 32	Ø 3.8 mm	E011/UNCN06M	E011/U05	E011/A05	E010/UNCN06E15	20
E011/UNCN08	€ 33,40	No. 8 x 32	Ø 4.4 mm	E011/UNCN08M	E011/U06	E011/A06	E010/UNCN08E15	20
E011/UNCN10	€ 33,40	No. 10 x 24	Ø 5.2 mm	E011/UNCN10M	E011/U07	E011/A06	E010/UNCN10E15	20
E011/UNCN12	€ 33,40	No. 12 x 24	Ø 5.8 mm	E011/UNCN12M	E011/U08	E011/A08	E010/UNCN12E15	20
E011/UNC1/4	€ 30,20	1/4" x 20	Ø 6.7 mm	E011/UNC1/4M	E011/U09	E011/A09	E010/UNC1/4E15	20
E011/UNC5/16	€ 36,70	5/16" x 18	Ø 8.3 mm	E011/UNC5/16M	E011/U10	E011/A11	E010/UNC5/16E15	20
E011/UNC3/8	€ 39,00	3/8" x 16	Ø 9.9 mm	E011/UNC3/8M	E011/U06	E011/A06	E010/UNC3/8E15	20
E011/UNC7/16	€ 43,50	7/16" x 14	Ø 11.6 mm	E011/UNC7/16M	E011/U14	E011/A14	E010/UNC7/16E15	10
E011/UNC1/2	€ 47,60	1/2" x 13	Ø 13.0 mm	E011/UNC1/2M	E011/U15	E011/A15	E010/UNC1/2E15	10
E011/UNC9/16	€ 63,00	9/16" x 12	-	E011/UNC9/16M	E011/U16	-	E010/UNC9/16E15	10
E011/UNC5/8	€ 63,00	5/8" x 1	-	E011/UNC5/8M	E011/U18	-	E010/UNC5/8E15	10
E011/UNC3/4	€ 79,90	3/4" x 10	-	E011/UNC3/4M	E011/U20	-	E010/UNC3/4E15	5
E011/UNC7/8	€ 96,70	7/8" x 9	-	E011/UNC7/8M	E011/U22	-	E010/UNC7/8E15	5
E011/UNC1	€ 92,30	1" x 8	-	E011/UNC1M	E011/U23	-	E010/UNC1E15	4

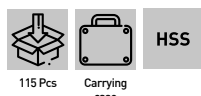


E011/UNF

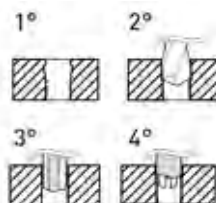
€ 218,00

1/4-1/2 UNF THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



Sizes	UNF 1/4" - 1/2"
STI Taps	1/4"x28-5/16"x24-3/8"x24-7/16"x20-1/2"x20
Drills	6.7 mm - 8.3 mm - 9.8 mm - 11.5 mm - 13.0 mm
Wire-thread inserts	1/4"=25 5/16"=25 3/8"=25 7/16"=10 - 1/2"=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs





E011-UNFX

UNF THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials

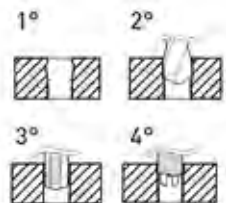


HSS

INOX

Hangable

Art.	€	Thread	Drills	STI Taps	Inserting tool	Tang break tool	Wire-thread inserts	Inserts quantity
E011/UNFN06	€ 33,40	No. 6 x 40	Ø 3.8 mm	E011/UNFN06M	E011/U05	E011/A05	E010/UNFN06E15	20
E011/UNFN08	€ 33,40	No. 8 x 36	Ø 4.4 mm	E011/UNFN08M	E011/U06	E011/A06	E010/UNFN08E15	20
E011/UNFN10	€ 33,40	No. 10 x 32	Ø 5.1 mm	E011/UNFN10M	E011/U08	E011/A08	E010/UNFN10E15	20
E011/UNF1/4	€ 30,20	1/4" x 28	Ø 6.7 mm	E011/UNF1/4M	E011/U09	E011/A09	E010/UNF1/4E15	20
E011/UNF5/16	€ 36,70	5/16" x 24	Ø 8.3 mm	E011/UNF5/16M	E011/U11	E011/A11	E010/UNF5/16E15	20
E011/UNF3/8	€ 39,00	3/8" x 24	Ø 9.8 mm	E011/UNF3/8M	E011/U13	E011/A13	E010/UNF3/8E15	15
E011/UNF7/16	€ 43,50	7/16" x 20	Ø 11.5 mm	E011/UNF7/16M	E011/U14	E011/A14	E010/UNF7/16E15	10
E011/UNF1/2	€ 47,60	1/2" x 20	Ø 13.0 mm	E011/UNF1/2M	E011/U15	E011/A15	E010/UNF1/2E15	10
E011/UNF9/16	€ 63,00	9/16" x 18	-	E011/UNF9/16M	E011/U16	-	E010/UNF9/16E15	10
E011/UNF5/8	€ 63,00	5/8" x 18	-	E011/UNF5/8M	E011/U18	-	E010/UNF5/8E15	10
E011/UNF3/4	€ 79,90	3/4" x 16	-	E011/UNF3/4M	E011/U21	-	E010/UNF3/4E15	5
E011/UNF7/8	€ 96,70	7/8" x 14	-	E011/UNF7/8M	E011/U22	-	E010/UNF7/8E15	5
E011/UNF1	€ 92,30	1" x 12	-	E011/UNF112M	E011/U23	-	E010/UNF1E15	4



E010-MXE1

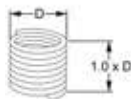
STAINLESS STEEL THREAD REPAIR INSERT H=1XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed



INOX

Hangable

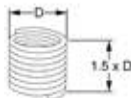


Art.	€	D	Pack
E010/M020X040E1	€ 0,65	M 2 x 0.4	25
E010/M022X045E1	€ 0,65	M 2.2 x 0.45	25
E010/M025X045E1	€ 0,20	M 2.5 x 0.45	25
E010/M030X050E1	€ 0,20	M 3 x 0.5	25
E010/M035X060E1	€ 0,22	M 3.5 x 0.6	25
E010/M040X070E1	€ 0,20	M 4 x 0.7	25
E010/M050X080E1	€ 0,22	M 5 x 0.8	25
E010/M060X100E1	€ 0,25	M 6 x 1.0	25
E010/M070X100E1	€ 0,26	M 7 x 1.0	25
E010/M080X100E1	€ 0,29	M 8 x 1.0	25
E010/M080X125E1	€ 0,25	M 8 x 1.25	25
E010/M090X125E1	€ 0,35	M 9 x 1.25	25
E010/M100X100E1	€ 0,31	M 10 x 1.0	25
E010/M100X125E1	€ 0,31	M 10 x 1.25	25
E010/M100X150E1	€ 0,31	M 10 x 1.5	25
E010/M110X150E1	€ 0,53	M 11 x 1.5	10
E010/M120X100E1	€ 0,47	M 12 x 1.0	10
E010/M120X125E1	€ 0,47	M 12 x 1.25	10
E010/M120X150E1	€ 0,47	M 12 x 1.5	10
E010/M120X175E1	€ 0,47	M 12 x 1.75	10
E010/M140X100E1	€ 0,80	M 14 x 1.0	10
E010/M140X125E1	€ 0,66	M 14 x 1.25	10
E010/M140X150E1	€ 0,66	M 14 x 1.5	10
E010/M140X200E1	€ 0,66	M 14 x 2.0	10
E010/M160X150E1	€ 0,90	M 16 x 1.5	10
E010/M160X200E1	€ 0,90	M 16 x 2.0	10
E010/M180X150E1	€ 1,30	M 18 x 1.5	10
E010/M180X200E1	€ 1,30	M 18 x 2.0	10
E010/M180X250E1	€ 1,30	M 18 x 2.5	10
E010/M200X150E1	€ 1,52	M 20 x 1.5	10
E010/M200X200E1	€ 1,52	M 20 x 2.0	10
E010/M200X250E1	€ 1,52	M 20 x 2.5	10
E010/M220X150E1	€ 1,65	M 22 x 1.5	5
E010/M220X200E1	€ 1,65	M 22 x 2.0	5
E010/M220X250E1	€ 1,65	M 22 x 2.5	5
E010/M240X150E1	€ 2,07	M 24 x 1.5	5
E010/M240X200E1	€ 2,07	M 24 x 2.0	5
E010/M240X300E1	€ 2,07	M 24 x 3.0	5



E010-MXE15
**STAINLESS STEEL THREAD
REPAIR INSERT H=1.5XD**

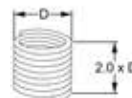
Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed


INOX


Art.	€	D	Pack
E010/M020X040E15	€ 0,84	M 2 x 0.4	25
E010/M022X045E15	€ 0,84	M 2.2 x 0.45	25
E010/M025X045E15	€ 0,21	M 2.5 x 0.45	25
E010/M030X050E15	€ 0,21	M 3 x 0.5	25
E010/M035X060E15	€ 0,25	M 3.5 x 0.6	25
E010/M040X070E15	€ 0,21	M 4 x 0.7	25
E010/M050X080E15	€ 0,19	M 5 x 0.8	25
E010/M060X100E15	€ 0,20	M 6 x 1.0	25
E010/M070X100E15	€ 0,31	M 7 x 1.0	25
E010/M080X100E15	€ 0,29	M 8 x 1.0	25
E010/M080X125E15	€ 0,25	M 8 x 1.25	25
E010/M090X100E15	€ 0,55	M 9 x 1.0	25
E010/M090X125E15	€ 0,47	M 9 x 1.25	25
E010/M100X100E15	€ 0,35	M 10 x 1.0	25
E010/M100X125E15	€ 0,35	M 10 x 1.25	25
E010/M100X150E15	€ 0,35	M 10 x 1.5	25
E010/M110X150E15	€ 0,59	M 11 x 1.5	10
E010/M120X100E15	€ 0,54	M 12 x 1.0	10
E010/M120X125E15	€ 0,54	M 12 x 1.25	10
E010/M120X150E15	€ 0,54	M 12 x 1.5	10
E010/M120X175E15	€ 0,54	M 12 x 1.75	10
E010/M140X100E15	€ 0,64	M 14 x 1.0	10
E010/M140X125E15	€ 0,64	M 14 x 1.25	10
E010/M140X150E15	€ 0,64	M 14 x 1.50	10
E010/M140X200E15	€ 0,64	M 14 x 2.0	10
E010/M160X150E15	€ 0,74	M 16 x 1.5	10
E010/M160X200E15	€ 0,74	M 16 x 2.0	10
E010/M180X150E15	€ 1,14	M 18 x 1.5	10
E010/M180X200E15	€ 1,14	M 18 x 2.0	10
E010/M180X250E15	€ 1,14	M 18 x 2.5	10
E010/M200X150E15	€ 1,46	M 20 x 1.5	10
E010/M200X200E15	€ 1,46	M 20 x 2.0	10
E010/M200X250E15	€ 1,46	M 20 x 2.5	10
E010/M220X150E15	€ 2,07	M 22 x 1.5	5
E010/M220X200E15	€ 2,07	M 22 x 2.0	5
E010/M220X250E15	€ 2,07	M 22 x 2.5	5
E010/M240X150E15	€ 2,20	M 24 x 1.5	5
E010/M240X200E15	€ 2,20	M 24 x 2.0	5
E010/M240X300E15	€ 2,20	M 24 x 3.0	5
E010/M260X150E15	€ 4,12	M 26 x 1.5	5
E010/M270X150E15	€ 4,12	M 27 x 1.5	5
E010/M270X200E15	€ 4,12	M 27 x 2.0	5
E010/M270X300E15	€ 4,12	M 27 x 3.0	5
E010/M280X150E15	€ 4,12	M 28 x 1.5	5
E010/M300X150E15	€ 5,00	M 30 x 1.5	5
E010/M300X200E15	€ 5,00	M 30 x 2.0	5
E010/M300X350E15	€ 5,00	M 30 x 3.5	5
E010/M330X200E15	€ 5,90	M 33 x 2.0	5
E010/M330X350E15	€ 5,90	M 33 x 3.5	5
E010/M360X150E15	€ 5,90	M 36 x 1.5	5
E010/M360X200E15	€ 5,90	M 36 x 2.0	5
E010/M360X300E15	€ 5,90	M 36 x 3.0	5
E010/M360X400E15	€ 5,90	M 36 x 4.0	5
E010/M390X300E15	€ 13,00	M 39 x 3.0	5
E010/M390X400E15	€ 13,00	M 39 x 4.0	5
E010/M400X300E15	€ 18,10	M 40 x 3.0	5
E010/M420X300E15	€ 18,10	M 42 x 3.0	5
E010/M420X450E15	€ 18,10	M 42 x 4.5	5
E010/M450X300E15	€ 21,70	M 45 x 3.0	5
E010/M450X450E15	€ 21,70	M 45 x 4.5	5
E010/M480X300E15	€ 21,70	M 48 x 3.0	5
E010/M480X500E15	€ 28,50	M 48 x 5.0	5
E010/M500X300E15	€ 28,50	M 50 x 3.0	5
E010/M520X300E15	€ 30,60	M 52 x 3.0	5
E010/M520X500E15	€ 30,60	M 52 x 5.0	5

E010-MXE2
**STAINLESS STEEL THREAD
REPAIR INSERT H=2XD**

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed


INOX


Art.	€	D	Pack
E010/M020X040E2	€ 0,98	M 2 x 0.4	25
E010/M022X045E2	€ 0,98	M 2.2 x 0.45	25
E010/M025X045E2	€ 0,22	M 2.5 x 0.45	25
E010/M030X050E2	€ 0,22	M 3 x 0.5	25
E010/M035X060E2	€ 0,25	M 3.5 x 0.6	25
E010/M040X070E2	€ 0,22	M 4 x 0.7	25
E010/M050X080E2	€ 0,25	M 5 x 0.8	25
E010/M060X100E2	€ 0,29	M 6 x 1.0	25
E010/M070X100E2	€ 0,35	M 7 x 1.0	25
E010/M080X100E2	€ 0,37	M 8 x 1.0	25
E010/M080X125E2	€ 0,35	M 8 x 1.25	25
E010/M090X125E2	€ 0,47	M 9 x 1.25	25
E010/M100X100E2	€ 0,40	M 10 x 1.0	25
E010/M100X125E2	€ 0,40	M 10 x 1.25	25
E010/M100X150E2	€ 0,40	M 10 x 1.5	25
E010/M110X150E2	€ 0,64	M 11 x 1.5	10
E010/M120X100E2	€ 0,61	M 12 x 1.0	10
E010/M120X125E2	€ 0,61	M 12 x 1.25	10
E010/M120X150E2	€ 0,61	M 12 x 1.5	10
E010/M120X175E2	€ 0,61	M 12 x 1.75	10
E010/M140X100E2	€ 0,79	M 14 x 1.0	10
E010/M140X125E2	€ 0,79	M 14 x 1.25	10
E010/M140X150E2	€ 0,79	M 14 x 1.5	10
E010/M140X200E2	€ 0,79	M 14 x 2.0	10
E010/M160X150E2	€ 1,16	M 16 x 1.5	10
E010/M160X200E2	€ 1,16	M 16 x 2.0	10
E010/M180X150E2	€ 2,07	M 18 x 1.5	10
E010/M180X200E2	€ 2,07	M 18 x 2.0	10
E010/M180X250E2	€ 2,07	M 18 x 2.5	10
E010/M200X150E2	€ 2,47	M 20 x 1.5	10
E010/M200X200E2	€ 2,47	M 20 x 2.0	10
E010/M200X250E2	€ 2,47	M 20 x 2.5	10
E010/M220X150E2	€ 2,62	M 22 x 1.5	5
E010/M220X200E2	€ 2,62	M 22 x 2.0	5
E010/M220X250E2	€ 2,62	M 22 x 2.5	5
E010/M240X150E2	€ 2,74	M 24 x 1.5	5
E010/M240X200E2	€ 2,74	M 24 x 2.0	5
E010/M240X300E2	€ 2,74	M 24 x 3.0	5



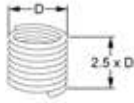
E010-MXE25

STAINLESS STEEL THREAD REPAIR INSERT H=2.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed



INOX



Art.	€	D	Pack
E010/M020X040E25	€ 1,10	2 x 0.4	25
E010/M022X045E25	€ 1,10	2.2 x 0.45	25
E010/M025X045E25	€ 0,26	2.5 x 0.45	25
E010/M030X050E25	€ 0,26	3 x 0.5	25
E010/M035X060E25	€ 0,29	3.5 x 0.6	25
E010/M040X070E25	€ 0,26	4 x 0.7	25
E010/M050X080E25	€ 0,30	5 x 0.8	25
E010/M060X100E25	€ 0,35	6 x 1.0	25
E010/M070X100E25	€ 0,42	7 x 1.0	25
E010/M080X100E25	€ 0,44	8 x 1.0	25
E010/M080X125E25	€ 0,42	8 x 1.25	25
E010/M090X125E25	€ 0,52	9 x 1.25	25
E010/M100X100E25	€ 0,48	10 x 1.0	25
E010/M100X125E25	€ 0,48	10 x 1.25	25
E010/M100X150E25	€ 0,48	10 x 1.5	25
E010/M110X150E25	€ 0,72	11 x 1.5	10
E010/M120X100E25	€ 0,72	12 x 1.0	10
E010/M120X125E25	€ 0,72	12 x 1.25	10
E010/M120X150E25	€ 0,72	12 x 1.5	10
E010/M120X175E25	€ 0,72	12 x 1.75	10
E010/M140X100E25	€ 0,95	14 x 1.0	10
E010/M140X125E25	€ 0,95	14 x 1.25	10
E010/M140X150E25	€ 0,95	14 x 1.5	10
E010/M140X200E25	€ 0,95	14 x 2.0	10
E010/M160X150E25	€ 1,26	16 x 1.5	10
E010/M160X200E25	€ 1,26	16 x 2.0	10
E010/M180X150E25	€ 2,34	18 x 1.5	10
E010/M180X200E25	€ 2,34	18 x 2.0	10
E010/M180X250E25	€ 2,34	18 x 2.5	10
E010/M200X150E25	€ 2,74	20 x 1.5	10
E010/M200X200E25	€ 2,74	20 x 2.0	10
E010/M200X250E25	€ 2,74	20 x 2.5	10
E010/M220X150E25	€ 3,02	22 x 1.5	5
E010/M220X200E25	€ 3,02	22 x 2.0	5
E010/M220X250E25	€ 3,02	22 x 2.5	5
E010/M240X150E25	€ 3,29	24 x 1.5	5
E010/M240X200E25	€ 3,29	24 x 2.0	5
E010/M240X300E25	€ 3,29	24 x 3.0	5

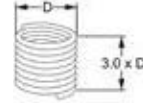
E010-MXE3

STAINLESS STEEL THREAD REPAIR INSERT H=3XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed



INOX



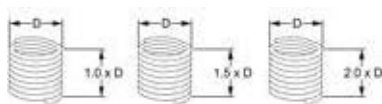
Art.	€	D	Pack
E010/M020X040E3	€ 1,37	M 2 x 0.4	25
E010/M022X045E3	€ 1,37	M 2.2 x 0.45	25
E010/M025X045E3	€ 0,31	M 2.5 x 0.45	25
E010/M030X050E3	€ 0,31	M 3 x 0.5	25
E010/M035X060E3	€ 0,35	M 3.5 x 0.6	25
E010/M040X070E3	€ 0,29	M 4 x 0.7	25
E010/M050X080E3	€ 0,36	M 5 x 0.8	25
E010/M060X100E3	€ 0,43	M 6 x 1.0	25
E010/M070X100E3	€ 0,49	M 7 x 1.0	25
E010/M080X100E3	€ 0,54	M 8 x 1.0	25
E010/M080X125E3	€ 0,49	M 8 x 1.25	25
E010/M090X125E3	€ 0,61	M 9 x 1.25	25
E010/M100X100E3	€ 0,58	M 10 x 1.0	25
E010/M100X125E3	€ 0,58	M 10 x 1.25	25
E010/M100X150E3	€ 0,58	M 10 x 1.5	25
E010/M110X150E3	€ 0,86	M 11 x 1.5	10
E010/M120X100E3	€ 0,86	M 12 x 1.0	10
E010/M120X125E3	€ 0,86	M 12 x 1.25	10
E010/M120X150E3	€ 0,86	M 12 x 1.5	10
E010/M120X175E3	€ 0,86	M 12 x 1.75	10
E010/M140X100E3	€ 1,16	M 14 x 1.0	10
E010/M140X125E3	€ 1,16	M 14 x 1.25	10
E010/M140X150E3	€ 1,16	M 14 x 1.5	10
E010/M140X200E3	€ 1,37	M 14 x 2.0	10
E010/M160X150E3	€ 1,37	M 16 x 1.5	10
E010/M160X200E3	€ 1,37	M 16 x 2.0	10
E010/M180X150E3	€ 2,74	M 18 x 1.5	10
E010/M180X200E3	€ 2,74	M 18 x 2.0	10
E010/M180X250E3	€ 2,74	M 18 x 2.5	10
E010/M200X150E3	€ 3,17	M 20 x 1.5	10
E010/M200X200E3	€ 3,17	M 20 x 2.0	10
E010/M200X250E3	€ 3,17	M 20 x 2.5	10
E010/M220X150E3	€ 3,44	M 22 x 1.5	5
E010/M220X200E3	€ 3,44	M 22 x 2.0	5
E010/M220X250E3	€ 3,44	M 22 x 2.5	5
E010/M240X150E3	€ 3,84	M 24 x 1.5	5
E010/M240X200E3	€ 3,84	M 24 x 2.0	5
E010/M240X300E3	€ 3,84	M 24 x 3.0	5



E010-MXEXA

SELF-LOCK STAINLESS STEEL THREAD REPAIR INSERT

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed

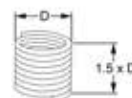

INOX


Art.	€	D	Height	Pack
E010/M030X050E1A	€ 0,30	M 3 x 0.5	1.0 D	25
E010/M040X070E1A	€ 0,30	M 4 x 0.7	1.0 D	25
E010/M050X080E1A	€ 0,35	M 5 x 0.8	1.0 D	25
E010/M060X100E1A	€ 0,38	M 6 x 1.0	1.0 D	25
E010/M080X125E1A	€ 0,40	M 8 x 1.25	1.0 D	25
E010/M100X150E1A	€ 0,52	M 10 x 1.5	1.0 D	25
E010/M120X175E1A	€ 0,74	M 12 x 1.75	1.0 D	10
E010/M140X200E1A	€ 1,07	M 14 x 2.0	1.0 D	10
E010/M160X200E1A	€ 1,43	M 16 x 2.0	1.0 D	10
E010/M030X050E15A	€ 0,33	M 3 x 0.5	1.5 D	25
E010/M040X070E15A	€ 0,33	M 4 x 0.7	1.5 D	25
E010/M050X080E15A	€ 0,36	M 5 x 0.8	1.5 D	25
E010/M060X100E15A	€ 0,42	M 6 x 1.0	1.5 D	25
E010/M080X125E15A	€ 0,46	M 8 x 1.5	1.5 D	25
E010/M100X150E15A	€ 0,55	M 10 x 1.5	1.5 D	25
E010/M120X175E15A	€ 0,85	M 12 x 1.75	1.5 D	10
E010/M140X200E15A	€ 1,21	M 14 x 2.0	1.5 D	10
E010/M160X200E15A	€ 1,50	M 16 x 2.0	1.5 D	10
E010/M030X050E2A	€ 0,35	M 3 x 0.5	2.0 D	25
E010/M040X070E2A	€ 0,35	M 4 x 0.7	2.0 D	25
E010/M050X080E2A	€ 0,40	M 5 x 0.8	2.0 D	25
E010/M060X100E2A	€ 0,46	M 6 x 1.0	2.0 D	25
E010/M080X125E2A	€ 0,55	M 8 x 1.25	2.0 D	25
E010/M100X150E2A	€ 0,64	M 10 x 1.5	2.0 D	25
E010/M120X175E2A	€ 0,97	M 12 x 1.75	2.0 D	10
E010/M140X200E2A	€ 1,26	M 14 x 2.0	2.0 D	10
E010/M160X200E2A	€ 1,84	M 16 x 2.0	2.0 D	10

E010-BSWXEX

STAINLESS STEEL THREAD REPAIR INSERT BSW H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed


INOX


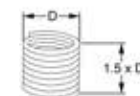
Hangable

Art.	€	D	Pack
E010/BSW1/8E15	€ 1,01	1/8" x 40	10
E010/BSW3/16E15	€ 1,01	3/16" x 24	10
E010/BSW1/4E15	€ 0,47	1/4" x 20	10
E010/BSW5/16E15	€ 0,55	5/16" x 18	10
E010/BSW3/8E15	€ 0,86	3/8" x 16	10
E010/BSW7/16E15	€ 1,01	7/16" x 14	10
E010/BSW1/2E15	€ 1,01	1/2" x 12	10
E010/BSW9/16E15	€ 3,20	9/16" x 12	5
E010/BSW5/8E15	€ 3,20	5/8" x 11	5
E010/BSW3/4E15	€ 3,66	3/4" x 10	5
E010/BSW7/8E15	€ 5,50	7/8" x 9	5
E010/BSW1E15	€ 5,90	1" x 8	5

E010-BSFXEX

STAINLESS STEEL THREAD REPAIR INSERT BSF H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed


INOX


Hangable

Art.	€	D	Pack
E010/BSF3/16E15	€ 1,01	3/16" x 32	10
E010/BSF1/4E15	€ 0,47	1/4" x 26	10
E010/BSF5/16E15	€ 0,55	5/16" x 22	10
E010/BSF3/8E15	€ 0,86	3/8" x 20	10
E010/BSF7/16E15	€ 1,01	7/16" x 18	10
E010/BSF1/2E15	€ 1,01	1/2" x 16	10
E010/BSF9/16E15	€ 3,48	9/16" x 16	5
E010/BSF5/8E15	€ 3,48	5/8" x 14	5
E010/BSF3/4E15	€ 4,39	3/4" x 12	5
E010/BSF7/8E15	€ 5,50	7/8" x 11	5
E010/BSF1E15	€ 5,50	1" x 10	5



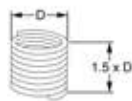
E010-BSPXEX

STAINLESS STEEL THREAD REPAIR INSERT BSP H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed



INOX



Art.	€	D	Pack
E010/BSP1/8E15	€ 0,78	1/8" x 28	10
E010/BSP1/4E15	€ 0,91	1/4" x 19	10
E010/BSP3/8E15	€ 1,19	3/8" x 19	10
E010/BSP1/2E15	€ 1,36	1/2" x 14	10
E010/BSP5/8E15	€ 3,66	5/8" x 14	5
E010/BSP3/4E15	€ 3,66	3/4" x 14	5
E010/BSP7/8E15	€ 11,00	7/8" x 14	5
E010/BSP1E15	€ 11,00	1" x 11	5

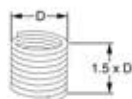
E010-UNFXEX

STAINLESS STEEL THREAD REPAIR INSERT UNF H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed



INOX



Art.	€	D	Pack
E010/UNFN04E15	€ 0,99	No. 4 x 48	10
E010/UNFN06E15	€ 0,99	No. 6 x 40	10
E010/UNFN08E15	€ 0,99	No. 8 x 36	10
E010/UNFN10E15	€ 0,39	No. 10 x 32	10
E010/UNF1/4E15	€ 0,39	1/4" x 28	10
E010/UNF5/16E15	€ 0,56	5/16" x 24	10
E010/UNF3/8E15	€ 0,81	3/8" x 24	10
E010/UNF7/16E15	€ 1,08	7/16" x 20	10
E010/UNF1/2E15	€ 1,08	1/2" x 20	10
E010/UNF9/16E15	€ 2,25	9/16" x 18	5
E010/UNF5/8E15	€ 2,25	5/8" x 18	5
E010/UNF3/4E15	€ 2,25	3/4" x 16	5
E010/UNF7/8E15	€ 5,80	7/8" x 14	5
E010/UNF1E15	€ 5,80	1" x 12	5

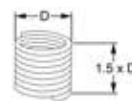
E010-UNCXEX

STAINLESS STEEL THREAD REPAIR INSERT UNC H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed



INOX



Art.	€	D	Pack
E010/UNCN02E15	€ 1,14	No. 2 x 56	10
E010/UNCN04E15	€ 0,35	No. 4 x 40	10
E010/UNCN05E15	€ 0,42	No. 5 x 40	10
E010/UNCN06E15	€ 0,33	No. 6 x 32	10
E010/UNCN08E15	€ 0,33	No. 8 x 32	10
E010/UNCN10E15	€ 0,37	No. 10 x 24	10
E010/UNCN12E15	€ 0,44	No. 12 x 24	10
E010/UNC1/4E15	€ 0,44	1/4" x 20	10
E010/UNC5/16E15	€ 0,62	5/16" x 18	10
E010/UNC3/8E15	€ 0,81	3/8" x 16	10
E010/UNC7/16E15	€ 1,08	7/16" x 14	10
E010/UNC1/2E15	€ 1,08	1/2" x 13	10
E010/UNC9/16E15	€ 1,16	9/16" x 12	5
E010/UNC5/8E15	€ 2,32	5/8" x 11	5
E010/UNC3/4E15	€ 3,29	3/4" x 10	5
E010/UNC7/8E15	€ 4,94	7/8" x 9	5
E010/UNC1E15	€ 4,94	1" x 8	5

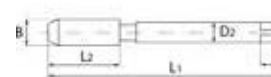
E011-MXM

METRIC F-COIL STI TAP

Special type for creating the threaded insert housing seat



HSS-G



Art.	€	Size	B	L1	L2	D2	C
E011/M020X040M	€ 10,40	M 2 x 0.40	2.5 mm	44.5 mm	9.5 mm	2.8 mm	2.24 mm
E011/M025X045M	€ 10,40	M 2.5 x 0.45	3.1 mm	48.0 mm	11.0 mm	3.15 mm	2.5 mm
E011/M030X050M	€ 10,40	M 3 x 0.5	3.6 mm	53.0 mm	13.0 mm	4.0 mm	3.15 mm
E011/M035X060M	€ 10,40	M 3.5 x 0.6	4.3 mm	53.0 mm	13.0 mm	4.5 mm	3.55 mm
E011/M040X070M	€ 10,40	M 4 x 0.7	4.9 mm	58 mm	16.0 mm	5.0 mm	4.00 mm
E011/M050X080M	€ 10,40	M 5 x 0.8	6.0 mm	66.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/M060X100M	€ 10,40	M 6 x 1.0	7.3 mm	72.0 mm	22.0 mm	8.0 mm	6.30 mm
E011/M070X100M	€ 12,10	M 7 x 1.0	8.3 mm	72.0 mm	22.0 mm	9.0 mm	7.10 mm
E011/M080X100M	€ 12,10	M 8 x 1.0	9.3 mm	80.0 mm	24.0 mm	10.0 mm	8.00 mm
E011/M080X125M	€ 12,10	M 8 x 1.25	9.6 mm	80.0 mm	24.0 mm	8.0 mm	8.00 mm
E011/M090X100M	€ 13,80	M 9 x 1.0	10.6 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/M090X125M	€ 13,80	M 9 x 1.25	10.6 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/M100X100M	€ 13,80	M 10 x 1.0	11.3 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/M100X125M	€ 13,80	M 10 x 1.25	11.6 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/M100X150M	€ 13,80	M 10 x 1.5	11.9 mm	89.0 mm	29.0 mm	9.0 mm	7.10 mm
E011/M110X150M	€ 18,10	M 11 x 1.5	12.9 mm	89.0 mm	29.0 mm	9.0 mm	7.10 mm
E011/M120X100M	€ 18,10	M 12 x 1.0	13.3 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/M120X125M	€ 19,00	M 12 x 1.25	13.6 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/M120X150M	€ 19,00	M 12 x 1.5	14.0 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm

Art.	€	Size	B	L1	L2	D2	C
E011/M120X175M	€ 19,00	M 12 x 1.75	14.3 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/M140X100M	€ 21,60	M 14 x 1.0	15.3 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/M140X125M	€ 21,60	M 14 x 1.25	15.6 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/M140X150M	€ 21,60	M 14 x 1.5	16.0 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/M140X200M	€ 21,60	M 14 x 2.0	16.6 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/M160X150M	€ 26,80	M 16 x 1.5	18.0 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/M160X200M	€ 26,80	M 16 x 2.0	18.6 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/M180X150M	€ 28,50	M 18 x 1.5	20.0 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/M180X200M	€ 28,50	M 18 x 2.0	20.6 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/M180X250M	€ 28,50	M 18 x 2.5	21.3 mm	118.0 mm	38.0 mm	16.0 mm	12.50 mm
E011/M200X150M	€ 31,90	M 20 x 1.5	22.0 mm	113.0 mm	33.0 mm	16.0 mm	12.50 mm
E011/M200X200M	€ 31,90	M 20 x 2.0	22.6 mm	113.0 mm	33.0 mm	16.0 mm	12.50 mm
E011/M200X250M	€ 31,90	M 20 x 2.5	23.3 mm	118.0 mm	38.0 mm	16.0 mm	12.50 mm
E011/M220X150M	€ 40,60	M 22 x 1.5	24.0 mm	120.0 mm	35.0 mm	18.0 mm	14.00 mm
E011/M220X200M	€ 40,60	M 22 x 2.0	24.6 mm	120.0 mm	35.0 mm	18.0 mm	14.00 mm
E011/M220X250M	€ 40,60	M 22 x 2.5	25.3 mm	130.0 mm	45.0 mm	18.0 mm	14.00 mm
E011/M240X150M	€ 43,30	M 24 x 1.5	26.0 mm	120.0 mm	35.0 mm	18.0 mm	14.00 mm
E011/M240X200M	€ 43,30	M 24 x 2.0	26.6 mm	127.0 mm	37.0 mm	20.0 mm	16.00 mm
E011/M240X300M	€ 43,30	M 24 x 3.0	27.9 mm	138.0 mm	48.0 mm	20.0 mm	16.00 mm

E011-MXM2

METRIC F-COIL 2 PCS STI TAPS

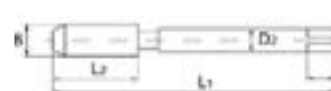
Special type for creating the threaded insert housing seat



HSS-G



Art.	€	Size	B	L1	L2	D2	C
E011/M260X150M	€ 143,00	M 26 x 1.5	28.0 mm	127 mm	37 mm	20.0 mm	16.0 mm
E011/M270X150M	€ 143,00	M 27 x 1.5	29.0 mm	127 mm	37 mm	20.0 mm	16.0 mm
E011/M270X200M	€ 143,00	M 27 x 2.0	29.6 mm	127 mm	37 mm	20.0 mm	16.0 mm
E011/M270X300M	€ 143,00	M 27 x 3.0	30.9 mm	151 mm	51 mm	22.4 mm	18.0 mm
E011/M280X150M	€ 173,00	M 28 x 1.5	30.0 mm	127 mm	37 mm	20.0 mm	16.0 mm
E011/M300X150M	€ 173,00	M 30 x 1.5	32.0 mm	137 mm	37 mm	22.4 mm	18.0 mm
E011/M300X200M	€ 173,00	M 30 x 2.0	32.6 mm	137 mm	37 mm	22.4 mm	18.0 mm
E011/M300X350M	€ 173,00	M 30 x 3.5	34.6 mm	162 mm	57 mm	25.0 mm	20.0 mm
E011/M330X200M	€ 173,00	M 33 x 2.0	35.6 mm	144 mm	37 mm	25.0 mm	20.0 mm
E011/M330X350M	€ 173,00	M 33 x 3.5	37.6 mm	162 mm	57 mm	25.0 mm	20.0 mm
E011/M360X150M	€ 199,00	M 36 x 1.5	38.0 mm	150 mm	39 mm	28.0 mm	22.4 mm
E011/M360X200M	€ 199,00	M 36 x 2.0	38.6 mm	150 mm	39 mm	28.0 mm	22.4 mm
E011/M360X300M	€ 199,00	M 36 x 3.0	39.9 mm	170 mm	60 mm	28.0 mm	22.4 mm
E011/M360X400M	€ 199,00	M 36 x 4.0	41.2 mm	170 mm	60 mm	28.0 mm	22.4 mm
E011/M390X300M	€ 300,00	M 39 x 3.0	42.9 mm	149 mm	39 mm	28.0 mm	26.0 mm
E011/M390X400M	€ 256,00	M 39 x 4.0	44.2 mm	187 mm	67 mm	31.5 mm	28.0 mm
E011/M400X300M	€ 256,00	M 40 x 3.0	43.9 mm	149 mm	39 mm	28.0 mm	26.0 mm
E011/M420X300M	€ 423,00	M 42 x 3.0	45.9 mm	165 mm	45 mm	31.5 mm	28.0 mm
E011/M420X450M	€ 278,00	M 42 x 4.5	47.9 mm	187 mm	67 mm	31.5 mm	28.0 mm
E011/M450X300M	€ 423,00	M 45 x 3.0	48.9 mm	175 mm	45 mm	35.5 mm	31.0 mm
E011/M450X450M	€ 323,00	M 45 x 4.5	50.9 mm	200 mm	70 mm	35.5 mm	31.0 mm
E011/M480X300M	€ 522,00	M 48 x 3.0	51.9 mm	175 mm	45 mm	35.5 mm	31.0 mm
E011/M480X500M	€ 356,00	M 48 x 5.0	54.5 mm	200 mm	70 mm	35.5 mm	31.0 mm
E011/M500X300M	€ 389,00	M 50 x 3.0	53.9 mm	175 mm	45 mm	35.5 mm	31.0 mm
E011/M520X300M	€ 722,00	M 52 x 3.0	55.9 mm	193 mm	48 mm	40.0 mm	34.0 mm
E011/M520X500M	€ 611,00	M 52 x 3.0	58.5 mm	221 mm	76 mm	40.0 mm	34.0 mm

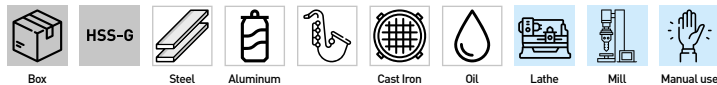




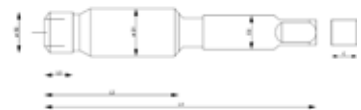
E011-MXMC

METRIC F-COIL STI COMBINED TAP

Special type for creating the threaded insert housing seat



Art.	€	Size	B1	B2	L3	L2	L1	D2	C
E011/M060X100MC	€ 14,70	M 6 x 1.0	7.3 mm	6 mm	7 mm	28 mm	70 mm	8 mm	6.3 mm
E011/M080X125MC	€ 14,70	M 8 x 1.25	9.6 mm	8 mm	9 mm	32 mm	75 mm	8 mm	6.3 mm
E011/M100X100MC	€ 20,80	M 10 x 1.0	11.3 mm	10 mm	8 mm	30 mm	74 mm	8 mm	6.3 mm
E011/M100X125MC	€ 20,80	M 10 x 1.25	11.6 mm	10 mm	8 mm	30 mm	74 mm	8 mm	6.3 mm
E011/M100X150MC	€ 20,80	M 10 x 1.5	11.9 mm	10 mm	9 mm	37 mm	80 mm	9 mm	7.1 mm
E011/M120X125MC	€ 26,80	M 12 x 1.25	13.6 mm	12 mm	9 mm	32 mm	75 mm	9 mm	7.1 mm
E011/M140X125MC	€ 29,40	M 14 x 1.25	15.6 mm	14 mm	10 mm	45 mm	90 mm	12 mm	9.2 mm
E011/M180X150MC	€ 43,30	M 18 x 1.25	20.0 mm	18 mm	10 mm	47 mm	116 mm	16 mm	12.5 mm



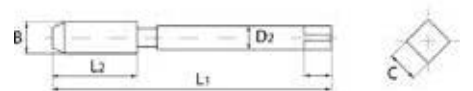
E011-BSWXM

BSW F-COIL STI TAP

Special type for creating the threaded insert housing seat



Art.	€	Size	B	L1	L2	D2	C
E011/BSW1/8M	€ 9,60	1/8" x 40	3.9 mm	53.0 mm	13.0 mm	4.0 mm	3.15 mm
E011/BSW3/16M	€ 9,60	3/16" x 24	6.0 mm	56.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/BSW1/4M	€ 9,60	1/4" x 20	7.8 mm	72.0 mm	22.0 mm	8.0 mm	6.30 mm
E011/BSW5/16M	€ 10,40	5/16" x 18	9.6 mm	80.0 mm	24.0 mm	10.0 mm	8.00 mm
E011/BSW3/8M	€ 11,20	3/8" x 16	11.4 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/BSW7/16M	€ 12,10	7/16" x 14	13.2 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/BSW1/2M	€ 13,40	1/2" x 12	15.2 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/BSW9/16M	€ 20,20	9/16" x 12	16.8 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/BSW5/8M	€ 24,80	5/8" x 11	18.6 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/BSW3/4M	€ 30,00	3/4" x 10	22.0 mm	118.0 mm	38.0 mm	16.0 mm	12.50 mm
E011/BSW7/8M	€ 40,50	7/8" x 9	25.5 mm	130.0 mm	45.0 mm	18.0 mm	14.00 mm
E011/BSW1M	€ 40,50	1" x 8	29.1 mm	138.0 mm	48.0 mm	20.0 mm	16.0 mm



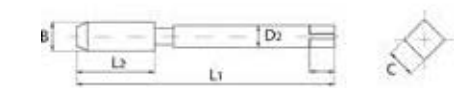
E011-BSFXM

BSF F-COIL STI TAP

Special type for creating the threaded insert housing seat



Art.	€	Size	B	L1	L2	D2	C
E011/BSF3/16M	€ 9,60	3/16" x 32	5.7 mm	66.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/BSF1/4M	€ 9,60	1/4" x 26	7.5 mm	72.0 mm	22.0 mm	8.0 mm	6.30 mm
E011/BSF5/16M	€ 10,40	5/16" x 22	9.3 mm	80.0 mm	24.0 mm	10.0 mm	8.00 mm
E011/BSF3/8M	€ 11,20	3/8" x 20	11.0 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/BSF7/16M	€ 12,10	7/16" x 18	12.8 mm	89.0 mm	29.0 mm	9.0 mm	7.10 mm
E011/BSF1/2M	€ 13,40	1/2" x 16	14.6 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/BSF9/16M	€ 20,20	9/16" x 16	16.2 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/BSF5/8M	€ 24,80	5/8" x 14	18.0 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/BSF3/4M	€ 30,00	3/4" x 12	21.5 mm	118.0 mm	38.0 mm	16.0 mm	12.5 mm
E011/BSF7/8M	€ 40,50	7/8" x 11	24.9 mm	130.0 mm	45.0 mm	18.0 mm	14.00 mm
E011/BSF1M	€ 40,50	1" x 10	28.4 mm	138.0 mm	48.0 mm	20.0 mm	16.00 mm



E011-BSPXM

BSP F-COIL STI 2 PCS TAPS

Special type for creating the threaded insert housing seat



Art.	€	Size	B	L1	L2	D2	C
E011/BSP1/8M	€ 25,00	1/8" x 28	10.8 mm	59 mm	15 mm	8.0 mm	6.3 mm
E011/BSP1/4M	€ 25,90	1/4" x 19	14.7 mm	67 mm	19 mm	11.2 mm	9.0 mm
E011/BSP3/8M	€ 33,70	3/8" x 19	18.3 mm	75 mm	21 mm	14.0 mm	11.2 mm
E011/BSP1/2M	€ 52,70	1/2" x 14	23.1 mm	87 mm	26 mm	16.0 mm	12.5 mm
E011/BSP5/8M	€ 74,30	5/8" x 14	25.1 mm	91 mm	26 mm	18.0 mm	14.0 mm
E011/BSP3/4M	€ 74,30	3/4" x 14	28.6 mm	96 mm	28 mm	20.0 mm	16.0 mm
E011/BSP7/8M	€ 117,00	7/8" x 14	32.4 mm	102 mm	29 mm	22.4 mm	18.0 mm
E011/BSP1M	€ 117,00	1" x 11	36.0 mm	109 mm	33 mm	25.0 mm	20.0 mm



E011-UNCXM

UNC F-COIL STI TAP

Special type for creating the threaded insert housing seat



Art.	€	Size	B	L1	L2	D2	C
E011/UNCN02M	€ 11,10	No. 2 x 56	2.8 mm	48.0 mm	10.0 mm	3.15 mm	2.5 mm
E011/UNCN04M	€ 11,10	No. 4 x 40	3.7 mm	53.0 mm	13.0 mm	4.0 mm	3.15 mm
E011/UNCN05M	€ 11,10	No. 5 x 40	4.0 mm	53.0 mm	13.0 mm	4.0 mm	3.15 mm
E011/UNCN06M	€ 11,10	No. 6 x 32	4.5 mm	58.0 mm	16.0 mm	5.0 mm	4.00 mm
E011/UNCN08M	€ 11,10	No. 8 x 32	5.2 mm	62.0 mm	17.0 mm	5.6 mm	4.50 mm
E011/UNCN10M	€ 11,10	No. 10 x 24	6.2 mm	66.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/UNCN12M	€ 11,10	No. 12 x 24	6.9 mm	66.0 mm	19.0 mm	7.1 mm	5.60 mm
E011/UNC1/4M	€ 9,60	1/4" x 20	8.0 mm	72.0 mm	22.0 mm	8.0 mm	6.30 mm
E011/UNC5/16M	€ 10,40	5/16" x 18	9.8 mm	80.0 mm	24.0 mm	10.0 mm	8.00 mm
E011/UNC3/8M	€ 11,20	3/8" x 16	11.6 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/UNC7/16M	€ 12,10	7/16" x 14	13.5 mm	95.0 mm	30.0 mm	11.2 mm	10.00 mm
E011/UNC1/2M	€ 13,40	1/2" x 13	15.2 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/UNC9/16M	€ 20,20	9/16" x 12	17.0 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/UNC5/8M	€ 24,80	5/8" x 11	18.9 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/UNC3/4M	€ 30,00	3/4" x 10	22.4 mm	118.0 mm	38.0 mm	16.0 mm	12.50 mm
E011/UNC7/8M	€ 40,50	7/8" x 9	25.9 mm	130.0 mm	45.0 mm	18.0 mm	14.00 mm
E011/UNC1M	€ 40,50	1" x 8	29.5 mm	138.0 mm	48.0 mm	20.0 mm	16.00 mm



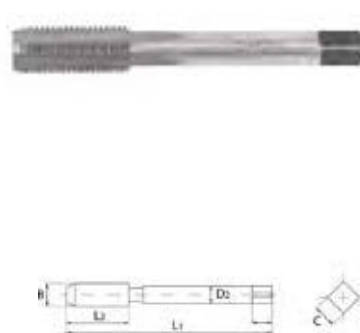
E011-UNFXM

UNF F-COIL STI TAP

Special type for creating the threaded insert housing seat



Art.	€	Size	B	L1	L2	D2	C
E011/UNFN04M	€ 12,10	No. 4 x 48	3.5 mm	53.0 mm	13.0 mm	4.0 mm	3.15 mm
E011/UNFN06M	€ 12,10	No. 6 x 40	4.3 mm	53.0 mm	13.0 mm	4.5 mm	3.55 mm
E011/UNFN08M	€ 12,10	No. 8 x 36	5.1 mm	62.0 mm	17.0 mm	5.6 mm	4.50 mm
E011/UNFN10M	€ 12,10	No. 10 x 32	5.9 mm	66.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/UNF1/4M	€ 9,60	1/4" x 28	7.5 mm	69.0 mm	19.0 mm	8.0 mm	6.30 mm
E011/UNF5/16M	€ 10,40	5/16" x 24	9.3 mm	76.0 mm	20.0 mm	10.0 mm	8.00 mm
E011/UNF3/8M	€ 11,20	3/8" x 24	10.9 mm	82.0 mm	22.0 mm	8.0 mm	6.3 mm
E011/UNF7/16M	€ 12,10	7/16" x 20	12.8 mm	84.0 mm	24.0 mm	9.0 mm	7.10 mm
E011/UNF1/2M	€ 13,40	1/2" x 20	14.4 mm	90.0 mm	25.0 mm	11.2 mm	9.00 mm
E011/UNF9/16M	€ 20,20	9/16" x 18	16.1 mm	104.0 mm	29.0 mm	12.5 mm	10.00 mm
E011/UNF5/8M	€ 24,80	5/8" x 18	17.7 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/UNF3/4M	€ 30,00	3/4" x 16	21.1 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/UNF7/8M	€ 40,50	7/8" x 14	24.6 mm	120.0 mm	35.0 mm	18.0 mm	14.00 mm
E011/UNF11/2M	€ 40,50	1" x 12	28.2 mm	127.0 mm	37.0 mm	20.0 mm	16.00 mm



E011-UX

F-COIL MOUNTING TOOL

Art.	€	Metric	Inch
E011/U02	€ 7,40	M 2 x 0.4 - M 2.2 x 0.45	UNC N02
E011/U03	€ 7,40	M 2.5 x 0.45	-
E011/U04	€ 7,40	M 3 x 0.5	UNC N05 - UNC/UNF N04 - BSW 1/8"
E011/U05	€ 7,40	M 3.5 x 0.6	UNC/UNF N06
E011/U06	€ 7,40	M 4 x 0.7	UNC/UNF N08
E011/U08	€ 7,40	M 5 x 0.8	UNF N10 - UNC N12 - BSF 3/16"
E011/U09	€ 7,40	M 6 x 1.0	UNC/UNF 1/4" - BSW/BSF 1/4"
E011/U10	€ 7,40	M 7 x 1.0	UNC/BSW 5/16"
E011/U11	€ 8,20	M 8 x 1.25 - M 8 x 1.0	UNF/BSF 5/16"
E011/U12	€ 12,50	M 9 x 1.25 - M 9 x 1.0	UNC/BSW 3/8"
E011/U13	€ 12,50	M 10 x 1.5 - M 10 x 1.0 - M 10 x 1.25	UNF/BSF 3/8"
E011/U14	€ 13,50	M 11 x 1.5	UNC/UNF 7/16" - BSW-BSF 7/16"
E011/U15	€ 13,50	M 12 x 1.75 - M 12 x 1.5 - M 12 x 1.25 - M 12 x 1.0	UNC/UNF 1/2" - BSW-BSF 1/2"
E011/U16	€ 15,40	M 14 x 2.0 - M 14 x 1.5	UNC/UNF 9/16" - BSW-BSF 9/16"
E011/U17	€ 15,40	M 14 x 1.25 - M 14 x 1.0	-
E011/U18	€ 16,80	M 16 x 2.0 - M 16 x 1.5	UNC/UNF 5/8" - BSW-BSF 5/8"
E011/U20	€ 16,80	M 18 x 2.5 - M 18 x 2.0 - M 18 x 1.5	UNC 3/4" - BSW-BSF 3/4"
E011/U21	€ 16,80	M 20 x 2.5 - M 20 x 2.0 - M 20 x 1.5	UNF 3/4"
E011/U22	€ 21,20	M 22 x 2.5 - M 22 x 2.0 - M 22 x 1.5	UNC/UNF 7/8" - BSW-BSF 7/8"
E011/U23	€ 21,20	M 24 x 3.0 - M 24 x 2.0 - M 24 x 1.5	UNC/UNF 1" - BSW-BSF 1"



E011-UMX

F-COIL MOUNTING TOOL HEXAGONAL DRIVE

Art.	€	Diameter	Hex drive
E011/UM260X150	€ 25,00	M 26 x 1.5	1/2"
E011/UM270X150	€ 25,00	M 27 x 1.5	1/2"
E011/UM270X200	€ 25,00	M 27 x 2.0	1/2"
E011/UM270X300	€ 25,00	M 27 x 3.0	1/2"
E011/UM280X150	€ 25,00	M 28 x 1.5	1/2"
E011/UM300X150	€ 27,90	M 30 x 1.5	1/2"
E011/UM300X200	€ 27,90	M 30 x 2.0	1/2"
E011/UM300X350	€ 27,90	M 30 x 3.5	1/2"
E011/UM330X200	€ 34,60	M 33 x 2.0	1/2"
E011/UM330X350	€ 34,60	M 33 x 3.5	1/2"
E011/UM360X150	€ 34,60	M 36 x 1.5	1/2"
E011/UM360X200	€ 34,60	M 36 x 2.0	1/2"
E011/UM360X300	€ 34,60	M 36 x 3.0	1/2"
E011/UM360X400	€ 34,60	M 36 x 4.0	1/2"



E011-AX

F-COIL TANG BREAKING TOOL

Art.	€	Metric	Inch
E011/A02	€ 2,41	M 2 x 0.4 - M 2.2 x 0.45	UNC N02
E011/A03	€ 2,41	M 2.5 x 0.45	-
E011/A04	€ 2,41	M 3 x 0.5	UNC/UNF N04
E011/A05	€ 2,41	M 3.5 x 0.6	UNC/UNF N06
E011/A06	€ 2,41	M 4 x 0.7	UNC N10 - UNC/UNF N08 - BSF 3/16"
E011/A08	€ 2,41	M 5 x 0.8	UNF N10 - UNC N12 - BSF 3/16"
E011/A09	€ 2,41	M 6 x 1.0	UNC/UNF 1/4" - BSW/BSF 1/4"
E011/A11	€ 2,71	M 7 x 1.0 - M 8 x 1.0 - M 8 x 1.25	UNC/UNF 5/16" - BSW/BSF 5/16"
E011/A12	€ 2,71	M 9 x 1.0 - M 9 x 1.25	UNC 3/8" - BSW/BSF 3/8"
E011/A13	€ 2,71	M 10 x 1.5 - M 10 x 1.0 - M 10 x 1.25	UNF 3/8"
E011/A14	€ 3,27	M 11 x 1.5	UNC/UNF 7/16" - BSW/BSF 7/16"
E011/A15	€ 3,27	M 12 x 1.5 - M 12 x 1.0 - M 12 x 1.25 - M 12 x 1.75	UNC/UNF 1/2" - BSW/BSF 1/2"



E011-EX

F-COIL PULLER

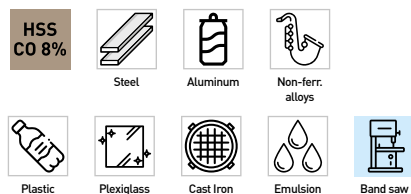
Art.	€	Metric	Inch
E011/E2	€ 15,60	M 3 - M 10	3/16" - 3/8"
E011/E3	€ 19,00	M 11 - M 25	3/8" - 1"



LBX

BI-METAL BANDSAW BLADE FOR METAL

Welded in standard length



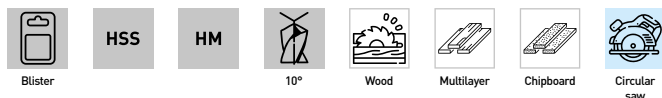
Art.	€	Sizes	Specifications	Pitch
LB01/1140	€ 17,10	1140 x 13 x 0.65 mm	T 8 / 12 Bi-Metal	Variable
LB01/1325	€ 18,90	1325 x 13 x 0.65 mm	T 8 / 12 Bi-Metal	Variable
LB01/1335	€ 19,10	1335 x 13 x 0.65 mm	T 8 / 12 Bi-Metal	Variable
LB01/1435	€ 20,10	1435 x 13 x 0.65 mm	T 8 / 12 Bi-Metal	Variable
LB01/1440	€ 20,10	1440 x 13 x 0.65 mm	T 8 / 12 Bi-Metal	Variable
LB01/1638	€ 22,10	1638 x 13 x 0.65 mm	T 8 / 12 Bi-Metal	Variable
LB01/1735	€ 23,20	1735 x 13 x 0.65 mm	T 8 / 12 Bi-Metal	Variable
LB02/1140	€ 17,10	1140 x 13 x 0.65 mm	T 6 Bi-Metal	Fix
LB02/1435	€ 20,10	1435 x 13 x 0.65 mm	T 6 Bi-Metal	Fix
LB05/1735	€ 23,90	1735 x 13 x 0.9 mm	T 8 / 12 Bi-Metal	Variable
LB07/2000	€ 28,00	2000 x 20 x 0.9 mm	T 8 / 12 Bi-Metal	Variable
LB07/2080	€ 28,80	2080 x 20 x 0.9 mm	T 8 / 12 Bi-Metal	Variable
LB07/2100	€ 29,00	2100 x 20 x 0.9 mm	T 8 / 12 Bi-Metal	Variable
LB07/2140	€ 29,50	2140 x 20 x 0.9 mm	T 8 / 12 Bi-Metal	Variable
LB07/2160	€ 29,80	2160 x 20 x 0.9 mm	T 8 / 12 Bi-Metal	Variable
LB08/2000	€ 28,00	2000 x 20 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB08/2080	€ 28,80	2080 x 20 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB08/2100	€ 29,00	2100 x 20 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB08/2140	€ 29,50	2140 x 20 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB08/2160	€ 29,80	2160 x 20 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB09/2375	€ 32,10	2375 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/2450	€ 34,30	2450 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable

Art.	€	Sizes	Specifications	Pitch
LB09/2500	€ 35,60	2500 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/2750	€ 38,70	2750 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/2825	€ 39,60	2825 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/2845	€ 39,80	2845 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/2945	€ 41,00	2945 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/2950	€ 41,20	2950 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/3010	€ 41,90	3010 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/3100	€ 42,90	3100 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/3120	€ 43,30	3120 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB09/3150	€ 43,50	3150 x 27 x 0.9 mm	T 8 / 11 Bi-Metal	Variable
LB10/2375	€ 32,10	2375 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/2450	€ 34,30	2450 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/2500	€ 35,60	2500 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/2750	€ 38,70	2750 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/2825	€ 39,60	2825 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/2845	€ 39,80	2845 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/2945	€ 41,00	2945 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/2950	€ 41,20	2950 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/3010	€ 41,90	3010 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/3100	€ 42,90	3100 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/3120	€ 43,30	3120 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable
LB10/3150	€ 43,50	3150 x 27 x 0.9 mm	T 5 / 7 Bi-Metal	Variable

07X

WOOD CARBIDE TIPPED SAW BLADES

With alternate universal teeth



Art.	€	Ø	Teeth Z	Hole	Cut thickness	Blade thickness	rpm max
0685	€ 29,40	254 mm	24	Ø 30 mm	3,2 mm	2,2 mm	6300
0702	€ 49,20	250 mm	60	Ø 30 mm	3,2 mm	2,2 mm	7000
0703	€ 56,70	250 mm	80	Ø 30 mm	3,2 mm	2,2 mm	7000
0704	€ 72,80	300 mm	72	Ø 30 mm	3,2 mm	2,2 mm	6000
0705	€ 78,60	300 mm	96	Ø 30 mm	3,2 mm	2,2 mm	6000
0899	€ 54,30	315 mm	25	Ø 30 mm	2,8 mm	1,8 mm	6000
0745	€ 89,20	350 mm	54	Ø 30 mm	3,5 mm	2,5 mm	5000
0707	€ 90,60	400 mm	48	Ø 30 mm	3,5 mm	2,5 mm	4500
0746	€ 156,00	450 mm	60	Ø 30 mm	4 mm	3,0 mm	4000

0762-

ALUMINIUM AND PLASTIC CARBIDE TIPPED SAW BLADE

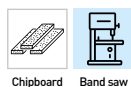
Trapezoidal flat toothing with alternating sharpening



Art.	€	Ø	Teeth Z	Hole	Cut thickness	Blade thickness	rpm max
0762/250	€ 58,10	250 mm	60	Ø 32 mm	3,2 mm	2,8 mm	7000
0762/300	€ 73,30	300 mm	72	Ø 32 mm	3,2 mm	2,8 mm	6000

**N7X****BLADE FOR WOOD**

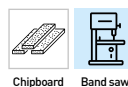
Blade for shaped cutting of thin wood



Art.	€	Sizes	Specifications
N194	€ 23,20	1400 x 6 x 0,36 mm	T6
N717/N	€ 23,20	1430 x 6 x 0,36 mm	T6
N188	€ 27,40	1790 x 6 x 0,36 mm	T10
N190	€ 27,40	1826 x 6 x 0,36 mm	T10
N855/N2	€ 26,30	2240 x 13 x 0,65 mm	T8
N186	€ 23,50	2400 x 13 x 0,65 mm	T8
N192	€ 23,50	2560 x 13 x 0,65 mm	T8
N764/N2	€ 26,30	2950 x 13 x 0,65 mm	T6
N764/455/N2	€ 36,60	3430 x 16 x 0,65 mm	T6

N7X1**BLADES FOR WOOD**

Blade for straight cut of thick wood



Art.	€	Sizes	Specifications
N195	€ 23,20	1400 x 10 x 0,36 mm	T6
N717/N1	€ 23,20	1430 x 10 x 0,36 mm	T6
N189	€ 27,40	1790 x 10 x 0,36 mm	T6
N191	€ 27,40	1826 x 10 x 0,36 mm	T6
N855/N	€ 26,30	2240 x 16 x 0,65 mm	T4
N187	€ 23,50	2400 x 16 x 0,65 mm	T4
N193	€ 23,50	2560 x 16 x 0,65 mm	T4
N764/N	€ 26,30	2950 x 16 x 0,65 mm	T4
N764/455/N	€ 36,60	3430 x 20 x 0,65 mm	T4

