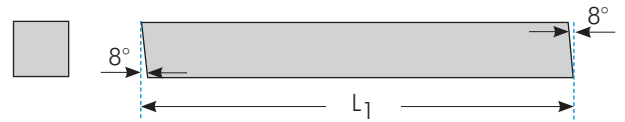


CUCHILLAS DE COBALTO PARA TORNO


Ref. CT1

HSSCo
10%
DIN
4964
FORMA
B
TOL
h14

CUCHILLAS CUADRADAS



CT1

∅ x L ₁ mm	€	∅ x L ₁ mm	€	∅ x L ₁ mm	€	∅ x L ₁ mm	€	∅ x L ₁ mm	€
4 x 4 x 80	7,94	6 x 6 x 100	12,07	8 x 8 x 200	30,87	12 x 12 x 100	33,92	16 x 16 x 125	80,48
4 x 4 x 100	12,02	6 x 6 x 125	14,97	10 x 10 x 63	16,80	12 x 12 x 125	42,02	16 x 16 x 160	88,10
4 x 4 x 150	17,45	6 x 6 x 160	17,58	10 x 10 x 80	18,99	12 x 12 x 160	53,74	16 x 16 x 200	101,87
4 x 4 x 200	24,83	6 x 6 x 200	21,84	10 x 10 x 100	26,52	12 x 12 x 200	62,35	18 x 18 x 160	100,52
5 x 5 x 80	10,49	8 x 8 x 63	10,22	10 x 10 x 125	32,29	14 x 14 x 100	39,65	18 x 18 x 200	126,96
5 x 5 x 100	14,55	8 x 8 x 80	13,04	10 x 10 x 160	40,02	14 x 14 x 125	48,20	20 x 20 x 160	142,02
5 x 5 x 150	20,42	8 x 8 x 100	16,80	10 x 10 x 200	47,97	14 x 14 x 160	64,83	20 x 20 x 200	154,71
5 x 5 x 200	27,89	8 x 8 x 125	22,57	12 x 12 x 63	22,58	14 x 14 x 200	69,53	25 x 25 x 160	218,20
6 x 6 x 80	9,72	8 x 8 x 160	24,22	12 x 12 x 80	27,06	16 x 16 x 100	51,52	25 x 25 x 200	242,41



Ref. CT2

HSSCo
10%
DIN
4964
FORMA
A
TOL
h8

CUCHILLAS REDONDAS



CT2

∅ x L ₁ mm	€	∅ x L ₁ mm	€	∅ x L ₁ mm	€	∅ x L ₁ mm	€	∅ x L ₁ mm	€
3 x 100	7,59	6 x 63	6,99	8 x 100	15,26	10 x 100	21,78	14 x 200	90,74
4 x 63	6,41	6 x 80	9,04	8 x 125	24,19	10 x 160	40,71	16 x 125	47,08
4 x 80	7,87	6 x 100	11,10	8 x 160	24,41	10 x 200	50,29	16 x 160	64,63
4 x 100	10,43	6 x 160	16,08	8 x 200	27,75	12 x 80	23,29	16 x 200	82,85
4 x 150	15,69	6 x 200	19,42	9 x 100	23,40	12 x 100	22,82	18 x 160	124,73
5 x 63	6,41	7 x 100	17,11	9 x 150	39,28	12 x 125	39,32	18 x 200	159,78
5 x 80	7,87	7 x 150	22,98	9 x 200	46,53	12 x 160	58,83	20 x 160	144,65
5 x 100	13,98	7 x 200	25,18	10 x 63	15,45	12 x 200	65,07	20 x 200	160,95
5 x 150	17,64	8 x 63	9,61	10 x 80	17,77	14 x 160	70,78	25 x 200	364,82
5 x 200	22,28	8 x 80	12,82						

CUCHILLAS DE COBALTO PARA TORNO



Ref. CT3

HSSCo 10% **DIN 4964** **FORMA D** **TOL h14**

CUCHILLAS RECTANGULARES



CT3

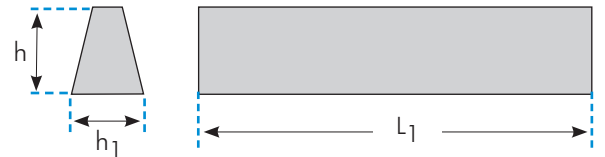
$h \times h_1 \times L_1$ mm	€	$h \times h_1 \times L_1$ mm	€	$h \times h_1 \times L_1$ mm	€	$h \times h_1 \times L_1$ mm	€	$h \times h_1 \times L_1$ mm	€
8 x 4 x 100	12,52	12 x 8 x 160	50,41	15 x 5 x 200	62,79	16 x 10 x 160	79,55	20 x 10 x 200	108,68
10 x 5 x 160	32,93	12 x 8 x 200	61,82	16 x 4 x 80	21,27	16 x 10 x 200	97,02	20 x 12 x 160	96,44
10 x 5 x 200	39,63	15 x 3 x 150	38,95	16 x 4 x 100	26,51	20 x 4 x 150	60,93	20 x 12 x 200	120,05
10 x 6 x 160	39,63	15 x 3 x 200	47,47	16 x 4 x 160	42,83	20 x 4 x 200	75,89	25 x 6 x 160	68,77
10 x 6 x 200	48,95	15 x 4 x 150	44,76	16 x 8 x 160	59,43	20 x 5 x 160	58,27	25 x 6 x 200	83,31
12 x 6 x 160	42,24	15 x 4 x 200	54,65	16 x 8 x 200	72,26	20 x 5 x 200	72,55	25 x 12 x 200	157,33
12 x 6 x 200	50,11	15 x 5 x 150	51,52	16 x 10 x 100	46,62	20 x 10 x 160	87,41		



Ref. CT4

HSSCo 10% **DIN 4964** **FORMA E** **TOL h12**

CUCHILLAS TRAPEZIALES



CT4

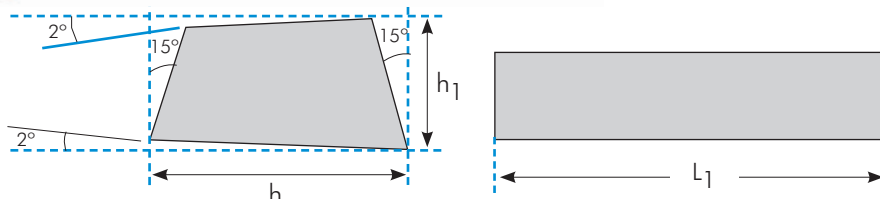
$h \times h_1 \times L_1$ mm	€	$h \times h_1 \times L_1$ mm	€
12 x 3,0 x 160	24,48	19 x 3,50 x 125	43,79
13 x 2,5 x 100	32,19	20 x 5,00 x 160	62,22
15 x 2,5 x 100	37,25	20 x 5,00 x 200	85,95
16 x 4,0 x 160	49,47	25 x 6,00 x 160	80,61



Ref. CT5

HSSCo 10% **DIN 4964** **FORMA INDEX 1** **TOL h12**

CUCHILLAS BITRAPEZIALES

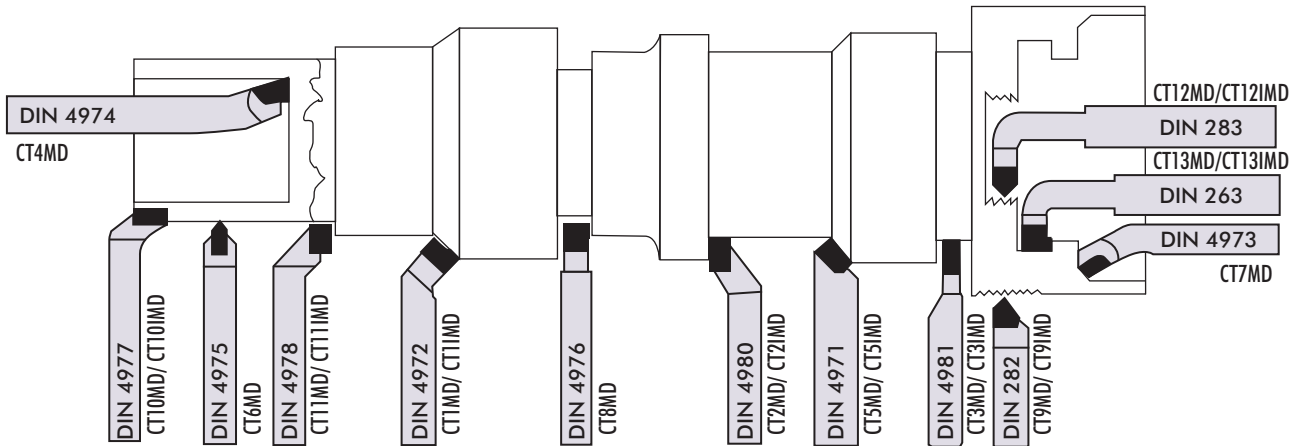


CT5

$h \times h_1 \times L_1$ mm	€
13 x 2,5 x 100	35,09
15 x 2,5 x 100	38,14
19 x 3,5 x 125	47,73

CUCHILLAS PARA TORNO

DIAGRAMA DE OPERACIONES Y GEOMETRÍAS



* Otras medidas disponibles bajo demanda

APLICACIONES

P20	Calidad recomendada en operaciones de torneado de acero, acero fundido y fundición maleable de viruta larga. Altos valores de resistencia al desgaste.
K10	Calidad recomendada en operaciones de torneado de fundición gris, fundición dura, acero templado, fundición maleable de viruta corta, aleaciones de aluminio al silicio, bronce y latón.

CALIDADES



Ref. CT5MD
Ref. CT5IMD

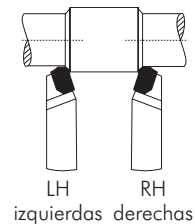
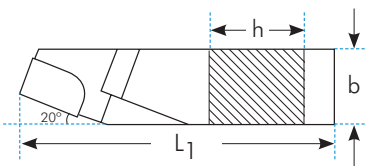
DIN
4971

P-20

K-10

ISO
1

CUCHILLAS RECTAS PARA CILINDRAR



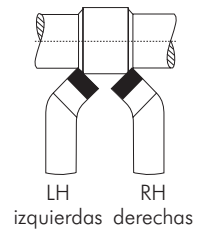
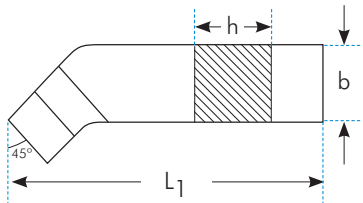
P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT5MD10x10x90P	CT5IMD10x10x90P	CT5MD10x10x90K	CT5IMD10x10x90K	10 x 10 x 90	9,20
CT5MD12x12x100P	CT5IMD12x12x100P	CT5MD12x12x100K	CT5IMD12x12x100K	12 x 12 x 100	9,89
CT5MD16x16x110P	CT5IMD16x16x110P	CT5MD16x16x110K	CT5IMD16x16x110K	16 x 16 x 110	12,43
CT5MD20x20x125P	CT5IMD20x20x125P	CT5MD20x20x125K	CT5IMD20x20x125K	20 x 20 x 125	16,96
CT5MD25x25x140P	CT5IMD25x25x140P	CT5MD25x25x140K	CT5IMD25x25x140K	25 x 25 x 140	25,10

CUCHILLAS PARA TORNO

Ref. CT1MD
Ref. CT11MD

DIN 4972 **P-20** **K-10** **ISO 2**

CUCHILLAS PARA ESCUADRAR 45°

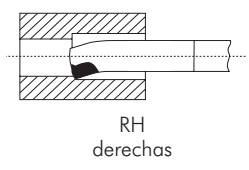
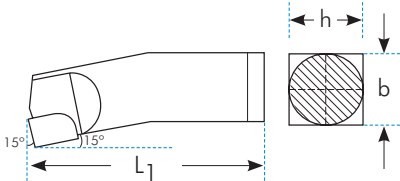


P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT1MD12x12x100P	CT11MD12x12x100P	CT1MD12x12x100K	CT11MD12x12x100K	12 x 12 x 100	10,98
CT1MD16x16x110P	CT11MD16x16x110P	CT1MD16x16x110K	CT11MD16x16x110K	16 x 16 x 110	13,68
CT1MD20x20x125P	CT11MD20x20x125P	CT1MD20x20x125K	CT11MD20x20x125K	20 x 20 x 125	17,38
CT1MD25x25x140P	CT11MD25x25x140P	CT1MD25x25x140K	CT11MD25x25x140K	25 x 25 x 140	24,59

Ref. CT7MD

DIN 4973 **P-20** **K-10** **ISO 8**

CUCHILLAS RECTAS PARA MANDRINAR

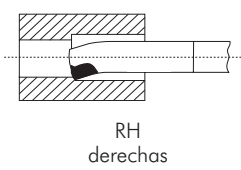
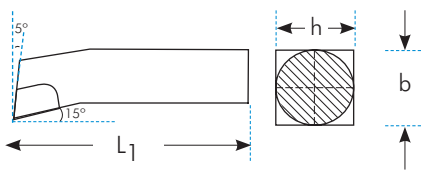


P20		K10		h x b x L1 mm	€
DERECHAS	DERECHAS	DERECHAS	DERECHAS		
CT7MD8x8x125P	CT7MD8x8x125K	CT7MD8x8x125K	CT7MD8x8x125K	8 x 8 x 125	13,15
CT7MD10x10x125P	CT7MD10x10x125K	CT7MD10x10x125K	CT7MD10x10x125K	10 x 10 x 125	13,55
CT7MD12x12x180P	CT7MD12x12x180K	CT7MD12x12x180K	CT7MD12x12x180K	12 x 12 x 180	13,94
CT7MD16x16x210P	CT7MD16x16x210K	CT7MD16x16x210K	CT7MD16x16x210K	16 x 16 x 210	15,63
CT7MD20x20x250P	CT7MD20x20x250K	CT7MD20x20x250K	CT7MD20x20x250K	20 x 20 x 250	20,31
CT7MD25x25x300P	CT7MD25x25x300K	CT7MD25x25x300K	CT7MD25x25x300K	25 x 25 x 300	31,98

Ref. CT4MD

DIN 4974 **P-20** **K-10** **ISO 9**

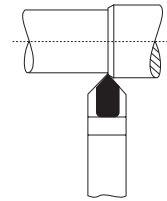
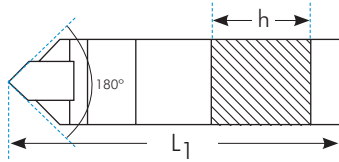
CUCHILLAS PARA TORNEADO INTERIOR



P20		K10		h x b x L1 mm	€
DERECHAS	DERECHAS	DERECHAS	DERECHAS		
CT4MD8x8x125P	CT4MD8x8x125K	CT4MD8x8x125K	CT4MD8x8x125K	8 x 8 x 125	13,55
CT4MD10x10x150P	CT4MD10x10x150K	CT4MD10x10x150K	CT4MD10x10x150K	10 x 10 x 150	13,38
CT4MD12x12x180P	CT4MD12x12x180K	CT4MD12x12x180K	CT4MD12x12x180K	12 x 12 x 180	14,19
CT4MD16x16x210P	CT4MD16x16x210K	CT4MD16x16x210K	CT4MD16x16x210K	16 x 16 x 210	16,90
CT4MD20x20x250P	CT4MD20x20x250K	CT4MD20x20x250K	CT4MD20x20x250K	20 x 20 x 250	21,36
CT4MD25x25x300P	CT4MD25x25x300K	CT4MD25x25x300K	CT4MD25x25x300K	25 x 25 x 300	32,44
CT4MD32x32x355P	CT4MD32x32x355K	CT4MD32x32x355K	CT4MD32x32x355K	32 x 32 x 355	57,11

CUCHILLAS PARA TORNO

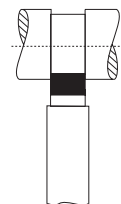
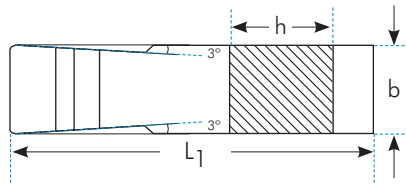
Ref. CT6MD

DIN
4975
P-20
K-10
ISO
10
CUCHILLAS RECTAS PARA CILINDRAR


Recta

P20		K10		h x b x L1 mm	€
RECTA	RECTA	RECTA	RECTA		
CT6MD16x10x110P	CT6MD16x10x110K	CT6MD16x10x110K	CT6MD16x10x110K	16 x 10 x 110	10,13
CT6MD20x12x125P	CT6MD20x12x125K	CT6MD20x12x125K	CT6MD20x12x125K	20 x 12 x 125	11,73
CT6MD25x16x140P	CT6MD25x16x140K	CT6MD25x16x140K	CT6MD25x16x140K	25 x 16 x 140	14,95
CT6MD32x20x170P	CT6MD32x20x170K	CT6MD32x20x170K	CT6MD32x20x170K	32 x 20 x 170	33,60

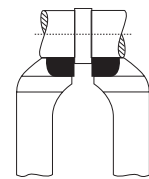
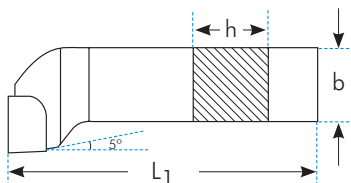
Ref. CT8MD

DIN
4976
P-20
K-10
ISO
4
CUCHILLAS RECTAS PARA RANURAR ANCHA


Recta

P20		K10		h x b x L1 mm	€
RECTA	RECTA	RECTA	RECTA		
CT8MD16x10x110P	CT8MD16x10x110K	CT8MD16x10x110K	CT8MD16x10x110K	16 x 10 x 110	12,17
CT8MD20x12x125P	CT8MD20x12x125K	CT8MD20x12x125K	CT8MD20x12x125K	20 x 12 x 125	13,35
CT8MD25x16x140P	CT8MD25x16x140K	CT8MD25x16x140K	CT8MD25x16x140K	25 x 16 x 140	18,82
CT8MD32x20x170P	CT8MD32x20x170K	CT8MD32x20x170K	CT8MD32x20x170K	32 x 20 x 170	27,75

 Ref. CT10MD
 Ref. CT10IMD

DIN
4977
P-20
K-10
ISO
5
CUCHILLAS ACODADAS PARA ATAQUE FRONTAL

 LH RH
 izquierdas derechas

P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT10MD10x10x90P	CT10IMD10x10x90P	CT10MD10x10x90K	CT10IMD10x10x90K	10 x 10 x 90	10,26
CT10MD12x12x100P	CT10IMD12x12x100P	CT10MD12x12x100K	CT10IMD12x12x100K	12 x 12 x 100	11,75
CT10MD16x16x110P	CT10IMD16x16x110P	CT10MD16x16x110K	CT10IMD16x16x110K	16 x 16 x 110	12,90
CT10MD20x20x125P	CT10IMD20x20x125P	CT10MD20x20x125K	CT10IMD20x20x125K	20 x 20 x 125	16,56
CT10MD25x25x140P	CT10IMD25x25x140P	CT10MD25x25x140K	CT10IMD25x25x140K	25 x 25 x 140	25,48

CUCHILLAS PARA TORNO

Ref. CT11MD
Ref. CT11IMD

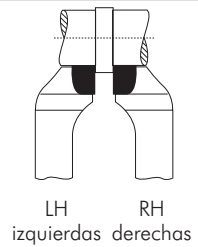
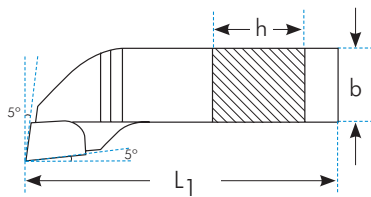
DIN
4978

P-20

K-10

ISO
3

CUCHILLAS ACODADAS PARA ATAQUE LATERAL



P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT11MD10x10x90P	CT11IMD10x10x90P	CT11MD10x10x90K	CT11IMD10x10x90K	10 x 10 x 90	11,25
CT11MD12x12x100P	CT11IMD12x12x100P	CT11MD12x12x100K	CT11IMD12x12x100K	12 x 12 x 100	13,25
CT11MD16x16x110P	CT11IMD16x16x110P	CT11MD16x16x110K	CT11IMD16x16x110K	16 x 16 x 110	14,73
CT11MD20x20x125P	CT11IMD20x20x125P	CT11MD20x20x125K	CT11IMD20x20x125K	20 x 20 x 125	21,84
CT11MD25x25x140P	CT11IMD25x25x140P	CT11MD25x25x140K	CT11IMD25x25x140K	25 x 25 x 140	36,08

Ref. CT2MD
Ref. CT2IMD

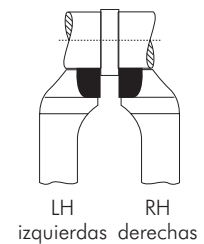
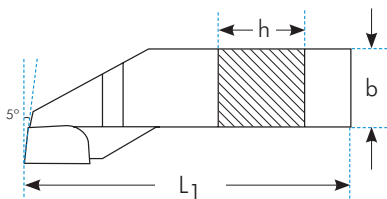
DIN
4980

P-20

K-10

ISO
6

CUCHILLAS PARA ESCUADRAR A 90°



P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT2MD10x10x90P	CT2IMD10x10x90P	CT2MD10x10x90K	CT2IMD10x10x90K	10 x 10 x 90	9,95
CT2MD12x12x100P	CT2IMD12x12x100P	CT2MD12x12x100K	CT2IMD12x12x100K	12 x 12 x 100	11,02
CT2MD16x16x110P	CT2IMD16x16x110P	CT2MD16x16x110K	CT2IMD16x16x110K	16 x 16 x 110	13,38
CT2MD20x20x125P	CT2IMD20x20x125P	CT2MD20x20x125K	CT2IMD20x20x125K	20 x 20 x 125	17,80
CT2MD25x25x140P	CT2IMD25x25x140P	CT2MD25x25x140K	CT2IMD25x25x140K	25 x 25 x 140	25,92

Ref. CT3MD
Ref. CT3IMD

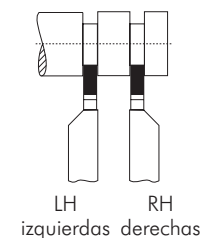
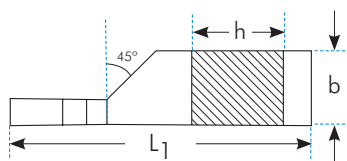
DIN
4981

P-20

K-10

ISO
7

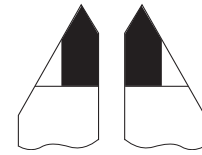
CUCHILLAS PARA TRONZAR



P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT3MD12x08x100P	CT3IMD12x08x100P	CT3MD12x08x100K	CT3IMD12x08x100K	12 x 8 x 100 x 3	10,30
CT3MD16x10x110P	CT3IMD16x10x110P	CT3MD16x10x110K	CT3IMD16x10x110K	16 x 10 x 110 x 4	11,25
CT3MD20x12x125P	CT3IMD20x12x125P	CT3MD20x12x125K	CT3IMD20x12x125K	20 x 12 x 125 x 5	13,01
CT3MD25x16x140P	CT3IMD25x16x140P	CT3MD25x16x140K	CT3IMD25x16x140K	25 x 16 x 140 x 6	17,25

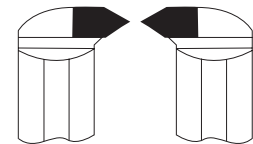
CUCHILLAS PARA TORNO

 Ref. CT9MD
 Ref. CT9IMD

DIN
282
P-20
K-10
ISO
12
CUCHILLAS PARA ROSCADO DE EXTERIORES

 LH RH
 izquierdas derechas

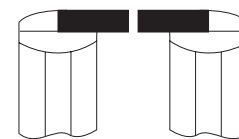
P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT9MD16x10x120P	CT9IMD16x10x120P	CT9MD16x10x120K	CT9IMD16x10x120K	16 x 10 x 120	12,89
CT9MD20x12x140P	CT9IMD20x12x140P	CT9MD20x12x140K	CT9IMD20x12x140K	20 x 12 x 140	15,10
CT9MD25x16x160P	CT9IMD25x16x160P	CT9MD25x16x160K	CT9IMD25x16x160K	25 x 16 x 160	19,67

 Ref. CT12MD
 Ref. CT12IMD

DIN
283
P-20
K-10
ISO
13
CUCHILLAS PARA ROSCADO DE INTERIORES

 LH RH
 izquierdas derechas

P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT12MD10x10x140P	CT12IMD10x10x140P	CT12MD10x10x140K	CT12IMD10x10x140K	10 x 10 x 140	21,09
CT12MD12x12x160P	CT12IMD12x12x160P	CT12MD12x12x160K	CT12IMD12x12x160K	12 x 12 x 160	21,46
CT12MD16x16x180P	CT12IMD16x16x180P	CT12MD16x16x180K	CT12IMD16x16x180K	16 x 16 x 180	28,20
CT12MD20x20x210P	CT12IMD20x20x210P	CT12MD20x20x210K	CT12IMD20x20x210K	20 x 20 x 210	33,49
CT12MD25x25x250P	CT12IMD25x25x250P	CT12MD25x25x250K	CT12IMD25x25x250K	25 x 25 x 250	47,48

 Ref. CT13MD
 Ref. CT13IMD

DIN
263
P-20
K-10
ISO
11
CUCHILLAS PARA RANURADO DE INTERIORES

 LH RH
 izquierdas derechas

P20		K10		h x b x L1 mm	€
DERECHAS	IZQUIERDAS	DERECHAS	IZQUIERDAS		
CT13MD12x12x160P	CT13IMD12x12x160P	CT13MD12x12x160K	CT13IMD12x12x160K	12 x 12 x 160	22,11
CT13MD16x16x180P	CT13IMD16x16x180P	CT13MD16x16x180K	CT13IMD16x16x180K	16 x 16 x 180	27,64
CT13MD20x20x210P	CT13IMD20x20x210P	CT13MD20x20x210K	CT13IMD20x20x210K	20 x 20 x 210	34,90
CT13MD25x25x250P	CT13IMD25x25x250P	CT13MD25x25x250K	CT13IMD25x25x250K	25 x 25 x 250	43,85

Dimensiones de la cuchilla: 4x4x10