



LLAMBRICH

Mandrini di alta precisione



Listino prezzi

APRILE 2015

La precisione innanzitutto

dal 1957

MICRO DRILL

Mandrini e alberini per microforatura

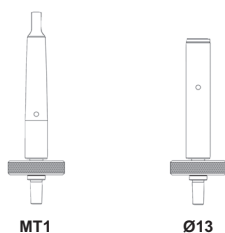
Micro Mandrini

Ref.	capacità mm.	attacco K	EURO (€)
SP-1.5 J0/B6	0,2 - 1,5	J0/B6	157,83
SP-03 J0/B6	0,3-3	J0/B6	154,53
CY-04 J0/B6	0,5-4	J0/B6	40,21



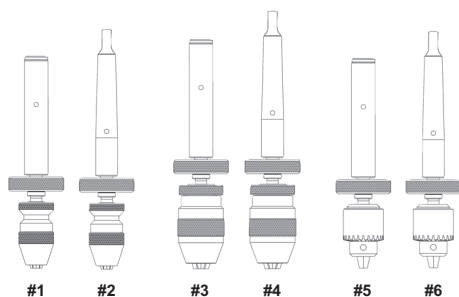
Alberino sensibile

Ref.	cono	attacco K	EURO (€)
EL-MT1/J0/B6	morse 1	J0/B6	80,58
ECIL-13/J0/B6	Ø 13mm.	J0/B6	71,75



KITS

Ref.	Ref. Mandrini	Alberino sensibile	EURO (€)
KIT #1	SP-1.5 J0/B6	ECIL-13/JT0/B6	229,58
KIT #2	SP-1.5 J0/B6	EL-MT1/JT0/B6	238,40
KIT #3	SP-03 J0/B6	ECIL-13/JT0/B6	226,27
KIT #4	SP-03 J0/B6	EL-MT1/JT0/B6	235,10
KIT #5	CY-04 J0/B6	ECIL-13/JT0/B6	111,48
KIT #6	CY-04 J0/B6	EL-MT1/JT0/B6	120,31



INOX

Mandrini in acciaio inossidabile per strumenti chirurgici

Senza Chiave

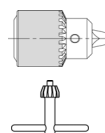
Ref.	capacità mm.	attacco K	EURO (€)
SP-03 R-3/8 SS	0,3-3	3/8"x24	231,80
SP-06 R-3/8 SS	0,3-6,5	3/8"x24	226,27
SP-15 B6/J0 FGE	0,2-1,5	B-6/J-0	251,83
SP-03 J-0 FGE	0,3-3	J-0	236,20
SP-03 R-3/8 FGE	0,3-3	3/8"-24	236,20
SP-03 R-5/16 FGE	0,3-3	5/16"-24	236,20
SP-06 R-3/8 FGE-H	0,3-6,5	3/8"-24	*
SP-07 J-1 FGE-C	0,3-7,4	J-1	226,27
SP-07 R-3/8 FGE-C	0,3-7,4	3/8"-24	226,27
SP-07 R-5/16 FGE-C	0,3-7,4	5/16"-24	226,27



FGE: Senza spigoli vivi. Trattati e passivati.
H: Versione più pesante.
C: Versione compatta.
 *:Prezzo sotto richiesta.

Con Chiave

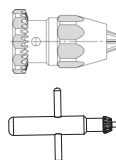
Ref.	capacità mm.	attacco K	EURO (€)
CSS-04 J0 GE	0,5-4	J-0	91,89
CSS-04 R-5/16 GE	0,5-4	5/16"x24	91,89
CSS-06 J1 GE-DS	0,5-7,4	J-1	94,92
CSS-06 R-3/8 GE-DS	0,5-7,4	3/8"x24	94,92
CSS-06 R-5/16 GE-DS	0,5-7,4	5/16"x24	94,92
CSS-10 R-3/8 GE	0,6-10	3/8"x24	122,40



GE: Trattati e passivati.
DS: Capacità fino a 7,4mm.

Hybrid

Ref.	capacità mm.	attacco K	EURO (€)
SPH-03 J-0 FGE	0,3-3	J-0	282,91
SPH-03 R-3/8 FGE	0,3-3	3/8"x24	282,91
SPH-03 R-5/16 FGE	0,3-3	5/16"x24	282,91
SPH-07 J-1 FGE-C	0,3-7,4	J-1	271,52
SPH-07 R-3/8 FGE-C	0,3-7,4	3/8"x24	271,52
SPH-07 R-5/16 FGE-C	0,3-7,4	5/16"x24	271,52



BREVETTO N° 201000670

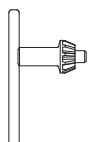
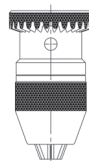
FGE: Senza spigoli vivi. Trattati e passivati.

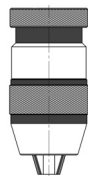
HYBRID

Mandrino combinato, autoserrante e con chiave

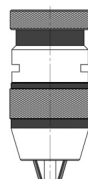
BREVETTO N° 201000670

Ref.	capacità mm.	attacco K	EURO (€)
SPH-06 B12	0,3-8	B12	174,39
SPH-06 J1	0,3-8	J1	174,39
SPH-10 B12	0,8-10	B12	150,11
SPH-10 B16	0,8-10	B16	150,11
SPH-10 J2	0,8-10	J2	150,11
SPH-10 J33	0,8-10	J33	150,11
SPH-13 B16	0,8-13	B16	152,32
SPH-13 J2	0,8-13	J2	152,32
SPH-13 J33	0,8-13	J33	152,32
SPH-13 J6	0,8-13	J6	152,32
SPH-16 B16	3-16	B16	164,45
SPH-16 B18	3-16	B18	164,45
SPH-16 J6	3-16	J6	164,45
SPH-20 B18	5-20	B18	203,09
SPH-20 J3	5-20	J3	203,09

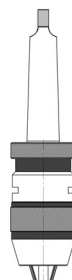


SP
Mandrini autoserranti (senza chiave) classe alta precisione


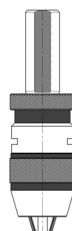
Ref.	capacità mm.	attacco K	EURO (€)
SP-1,5 B-6	0 - 1,5	B-6	157,83
SP-1,5 J-0	0 - 1,5	J-0	157,83
SP-03 B-6	0 - 3	B-6	154,53
SP-03 B-10	0 - 3	B-10	154,53
SP-03 J-0	0 - 3	J-0	154,53
SP-03 J-1	0 - 3	J-1	154,53
SP-03 R-5/16	0 - 3	5/16" x 24	154,53
SP-06 B-10	0 - 6,5	B-10	111,74
SP-06 B-12	0 - 6,5	B-12	111,74
SP-06 J-1	0 - 6,5	J-1	111,74
SP-08 B-12	0 - 8	B-12	108,25
SP-08 J-1	0 - 8	J-1	108,25
SP-08 J-2S	0 - 8	J-2S	108,25
SP-08 R-3/8	0 - 8	3/8" x 24	108,25
SP-10 B-12	0 - 10	B-12	111,56
SP-10 B-16	0 - 10	B-16	111,56
SP-10 J-2	0 - 10	J-2	111,56
SP-10 J-33	0 - 10	J-33	111,56
SP-10 R-3/8	0 - 10	3/8" x 24	111,56
SP-10 R-1/2	0 - 10	1/2" x 20	111,56
SP-13 B-16	1 - 13	B-16	116,09
SP-13 J-2	1 - 13	J-2	116,09
SP-13 J-33	1 - 13	J-33	116,09
SP-13 J6	1 - 13	J-6	116,09
SP-13 R-1/2	1 - 13	1/2" x 20	116,09
SP-16 B-16	3 - 16	B-16	128,08
SP-16 B-18	3 - 16	B-18	128,08
SP-16 J-33	3 - 16	J-33	128,08
SP-16 J-6	3 - 16	J-6	128,08

SPX
Mandrini autoserranti con chiave per aumentare la forza serrante. Classe alta precisione


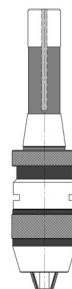
Ref.	capacità mm.	attacco K	EURO (€)
SPX-06 B-10	0 - 6,5	B-10	131,18
SPX-06 B-12	0 - 6,5	B-12	131,18
SPX-06 J-1	0 - 6,5	J-1	131,18
SPX-08 B-12	0 - 8	B-12	129,16
SPX-08 J-1	0 - 8	J-1	129,16
SPX-08 J-2S	0 - 8	J-2S	129,16
SPX-10 B-12	0 - 10	B-12	131,40
SPX-10 B-16	0 - 10	B-16	131,40
SPX-10 J-2	0 - 10	J-2	131,40
SPX-10 J-33	0 - 10	J-33	131,40
SPX-13 B-16	1 - 13	B-16	137,74
SPX-13 J-2	1 - 13	J-2	137,74
SPX-13 J-33	1 - 13	J-33	137,74
SPX-13 J-6	1 - 13	J-6	137,74
SPX-16 B-16	3 - 16	B-16	156,28
SPX-16 B-18	3 - 16	B-18	156,28
SPX-16 J-33	3 - 16	J-33	156,28
SPX-16 J-6	3 - 16	J-6	156,28

SPS-SOLID
Mandrini autoserranti classe super precisione con codolo integrato (cono morse, cilindrico o R-8)
Cono Morse


Ref.	capacità mm.	cono morse	EURO (€)
SPS-08 MT-2	0 - 8	2	144,84
SPS-10 MT-2	0 - 10	2	146,50
SPS-13 MT-2	1 - 13	2	152,75
SPS-13 MT-3	1 - 13	3	156,02
SPS-13 MT-4	1 - 13	4	170,12
SPS-16 MT-2	3 - 16	2	173,27
SPS-16 MT-3	3 - 16	3	177,39
SPS-16 MT-4	3 - 16	4	186,38

Cilindrico


Ref.	capacità mm.	attacco Ø	EURO (€)
SPS-13 CIL-20	1 - 13	mm. 20	155,70
SPS-13 CIL-25	1 - 13	mm. 25	155,70
SPS-13 CIL-32	1 - 13	mm. 32	160,15
SPS-13 CIL-5/8	1 - 13	5/8"	160,15
SPS-16 CIL-20	3 - 16	mm. 20	173,27
SPS-16 CIL-25	3 - 16	mm. 25	176,63
SPS-16 CIL-32	3 - 16	mm. 32	176,63

R-8


Ref.	capacità mm.	attacco K	EURO (€)
SPS-13 R-8	1 - 13	R-8	171,69
SPS-16 R-8	3 - 16	R-8	193,62



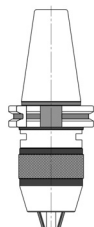
I modelli SPX e SPS-SOLID si forniscono con chiave supplementare per aumentare la forza torcente.

NPU

Mandrini integrali. Il cono è integrato con il corpo per un utilizzo ottimale su macchine CNC e fresatrici

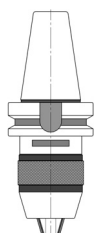
Solidità e precisione

DIN-69871-A



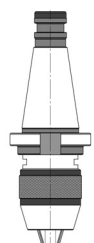
Ref.	capacità mm.	cono SK	EURO (€)
NPU-08 ID 30	0 - 8	30	362,97
NPU-08 ID 40	0 - 8	40	323,89
NPU-08 ID 40/110	0 - 8	40/110	368,55
NPU-10 ID 30	0 - 10	30	361,26
NPU-10 ID 40	0 - 10	40	331,84
NPU-10 ID 40/110	0 - 10	40/110	402,92
NPU-13 ID 40	1 - 13	40	339,01
NPU-13 ID 40/125	1 - 13	40/125	419,42
NPU-13 ID 45	1 - 13	45	435,64
NPU-13 ID 50	1 - 13	50	394,06
NPU-16 ID 40	3 - 16	40	370,92
NPU-16 ID 50	3 - 16	50	408,42
NPU-16 ID 50/125	3 - 16	50/125	473,82

MAS 403-BT [JIS-6339A]



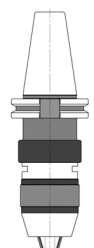
Ref.	capacità mm.	cono BT	EURO (€)
NPU-08 BT 30	0 - 8	30	362,97
NPU-08 BT 40	0 - 8	40	323,89
NPU-08 BT 40/110	0 - 8	40/110	368,55
NPU-10 BT 30	0 - 10	30	361,26
NPU-10 BT 40	0 - 10	40	331,84
NPU-10 BT 40/110	0 - 10	40/110	402,92
NPU-13 BT 40	1 - 13	40	339,01
NPU-13 BT 40/130	1 - 13	40/130	411,44
NPU-13 BT 50	1 - 13	50	409,49
NPU-16 BT 40	3 - 16	40	370,92
NPU-16 BT 50	3 - 16	50	420,36
NPU-16 BT 50/145	3 - 16	50/145	506,02

DIN-2080



Ref.	capacità mm.	cono ISO	EURO (€)
NPU-08 DIN 30	0 - 8	30	354,94
NPU-08 DIN 40	0 - 8	40	322,86
NPU-10 DIN 30	0 - 10	30	358,55
NPU-10 DIN 40	0 - 10	40	329,33
NPU-13 DIN 40	1 - 13	40	328,62
NPU-13 DIN 50	1 - 13	50	400,99
NPU-16 DIN 40	3 - 16	40	359,75
NPU-16 DIN 50	3 - 16	50	412,02

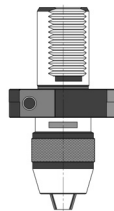
CAT - ANSI



Ref.	capacità mm.	cono CAT	EURO (€)
NPU-08 CA 30-A	0 - 8	30	337,42
NPU-08 CA 40-A	0 - 8	40	337,42
NPU-13 CA 40-A	1 - 13	40	337,42
NPU-13 CA 45-A	1 - 13	45	379,68
NPU-13 CA 50-A	1 - 13	50	409,21
NPU-16 CA 40-A	3 - 16	40	386,88
NPU-16 CA 50-A	3 - 16	50	424,38

AVVERTENZA: I filetti per il tirante sono secondo la norma UNC-2B in pollici per il mercato americano, (non europeo).

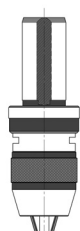
DIN-69880 VDI 3425/2



Ref.	capacità mm.	VDI ISO	EURO (€)
NPU-08 VDI 30	0 - 8	30	462,64
NPU-13 VDI 30	1 - 13	30	440,46
NPU-13 VDI 40	1 - 13	40	456,79
NPU-16 VDI 40	3 - 16	40	482,61
NPU-16 VDI 50	3 - 16	50	516,24
NPU-16 VDI 60	3 - 16	60	*

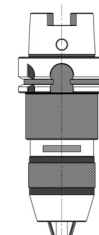
* Prezzo sotto richiesta.

CILINDRICO



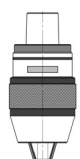
Ref.	capacità mm.	Ø mm.	EURO (€)
NPU-08 CIL 25	0 - 8	25	348,42
NPU-08 CIL 30	0 - 8	30	348,42
NPU-08 CIL 32	0 - 8	32	348,42
NPU-13 CIL 32	1 - 13	32	339,01
NPU-13 CIL 40	1 - 13	40	339,01
NPU-16 CIL 40	3 - 16	40	372,50
NPU-16 CIL 50	3 - 16	50	401,23

DIN-69893-A [HSK]



Ref.	capacità mm.	cono HSK	EURO (€)
NPU-13 HSK 50	1 - 13	50	402,08
NPU-13 HSK 63	1 - 13	63	422,37
NPU-16 HSK 63	3 - 16	63	441,33
NPU-16 HSK 80	3 - 16	80	485,75
NPU-16 HSK 100	3 - 16	100	532,02

NPU-B



Ref.	capacità mm.	cono di attacco	EURO (€)
NPU-03 B	0 - 3	B-12	185,08
NPU-06 B	0 - 6,5	B-18	171,98
NPU-08 B	0 - 8	B-18	174,66
NPU-10 B/30 ⁽¹⁾	0 - 10	B-18	186,45
NPU-10 B/40 ⁽²⁾	0 - 10	B-18	186,45
NPU-13 B	1 - 13	MORSE-3	197,45
NPU-16 B/40 ⁽²⁾	3 - 16	MORSE-3	222,63
NPU-16 B/50 ⁽³⁾	3 - 16	MORSE-3	222,63

⁽¹⁾ per cono 30

⁽²⁾ per cono 40

⁽³⁾ per cono 50

Capacità 0-3 mm. e 0-6,5 mm. disponibili su richiesta per tutti i modelli NPU.

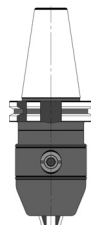


I modelli NPU (eccetto i NPU-B) si forniscono con chiave supplementare per aumentare la forza torcente.

HEXA-BLACK

Mandrini standard con cono integrato e chiave esagonale

DIN-69871 A



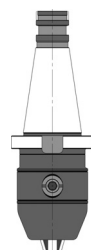
Ref.	capacità mm.	cono SK	EURO (€)
HB-13 ID-40	0,8 - 13	40	275,94
HB-16 ID-40	3 - 16	40	290,29

MAS 403-BT [JIS-6339A] A



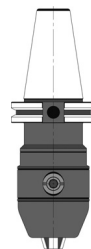
Ref.	capacità mm.	cono BT	EURO (€)
HB-13 BT-40	0,8 - 13	40	275,94
HB-16 BT-40	3 - 16	40	290,29

DIN-2080



Ref.	capacità mm.	cono ISO	EURO (€)
HB-13 DIN-40	0,8 - 13	40	275,94
HB-16 DIN-40	3 - 16	40	290,29

CAT-ANSI



Ref.	capacità mm.	cono CAT	EURO (€)
HB-13 CAT-40	0,8 - 13	40	275,94
HB-16 CAT-40	3 - 16	40	290,29

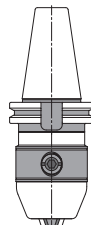


I modelli HEXA-BLACK si forniscono con chiave per serraggio.

HEXA-SYSTEM

 Mandrini integrali, serie Super
 Precisione con bloccaggio mediante
 Chiave Esagonale

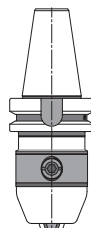
DIN-69871 A, B, AD



Ref.	capacità mm.	cono SK	EURO (€)
HX-10 ID-40	0 - 10	40	404,80
HX-10 ID-40/R	0 - 10	40	467,47
HX-13 ID-40	1 - 13	40	382,12
HX-13 ID-40/R	1 - 13	40	458,54
HX-13 ID-50	1 - 13	50	473,82
HX-13 ID-50/R	1 - 13	50	504,35
HX-16 ID-40	3 - 16	40	403,14
HX-16 ID-40/R	3 - 16	40	477,65
HX-16 ID-50	3 - 16	50	485,30
HX-16 ID-50/R	3 - 16	50	515,85

I modelli indicati con il codice "/R" sono forniti con la lubrificazione interna (AD e B).

MAS 403-BT [JIS-6339A] A, B, AD

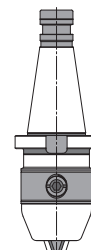


Ref.	capacità mm.	cono BT	EURO (€)
HX-10 BT-40	0 - 10	40	*
HX-10 BT-40/R	0 - 10	40	*
HX-13 BT-40	1 - 13	40	382,12
HX-13 BT-40/R	1 - 13	40	458,54
HX-13 BT-50	1 - 13	50	473,82
HX-13 BT-50/R	1 - 13	50	504,35
HX-16 BT-40	3 - 16	40	403,14
HX-16 BT-40/R	3 - 16	40	477,65
HX-16 BT-50	3 - 16	50	485,30
HX-16 BT-50/R	3 - 16	50	515,85

I modelli indicati con il codice "/R" sono forniti con la lubrificazione interna (AD e B).

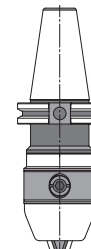
* Prezzo sotto richiesta.

DIN-2080



Ref.	capacità mm.	cono ISO	EURO (€)
HX-10 DIN-40	0 - 10	40	397,10
HX-13 DIN-40	1 - 13	40	382,12
HX-13 DIN-50	1 - 13	50	473,82
HX-16 DIN-40	3 - 16	40	403,14
HX-16 DIN-50	3 - 16	50	485,30

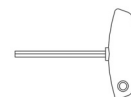
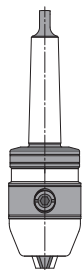
CAT - ANSI A, AD



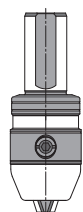
Ref.	capacità mm.	cono CAT	EURO (€)
HX-10 CA40	0 - 10	40	382,12
HX-10 CA40/R	0 - 10	40	458,54
HX-13 CA40	1 - 13	40	382,12
HX-13 CA40/R	1 - 13	40	458,54
HX-13 CA50	1 - 13	50	473,82
HX-13 CA50/R	1 - 13	50	504,35
HX-16 CA40	3 - 16	40	403,14
HX-16 CA40/R	3 - 16	40	477,65
HX-16 CA50	3 - 16	50	485,30
HX-16 CA50/R	3 - 16	50	515,85

AVVERTENZA: I filetti per il tirante sono secondo la norma UNC-2B in pollici per il mercato americano, (non europeo).

I modelli indicati con il codice "/R" sono forniti con la lubrificazione interna (AD).

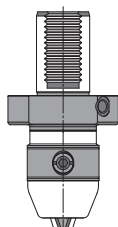
HEXA-SYSTEM Mandrini integrali, serie Super Precisione con bloccaggio mediante Chiave Esagonale
**MORSE**

Ref.	capacità mm.	cono morse	EURO (€)
HX-13 MT-2	1 - 13	MT-2	272,67
HX-13 MT-3	1 - 13	MT-3	278,24
HX-13 MT-4	1 - 13	MT-4	297,70
HX-16 MT-2	3 - 16	MT-2	310,88
HX-16 MT-3	3 - 16	MT-3	317,21
HX-16 MT-4	3 - 16	MT-4	332,41

CILINDRICO

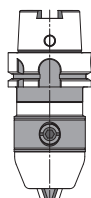
Ref.	capacità mm.	Ø mm.	EURO (€)
HX-13 CIL-20	1 - 13	20	272,67
HX-13 CIL-25	1 - 13	25	272,67
HX-13 CIL-32	1 - 13	32	272,67
HX-13 CIL-40	1 - 13	40	283,64
HX-16 CIL-20	3 - 16	20	310,88
HX-16 CIL-25	3 - 16	25	310,88
HX-16 CIL-32	3 - 16	32	310,88
HX-16 CIL-40	3 - 16	40	326,40

Refrigerazione interna opzionale, +8,68€/pz. (netto).

DIN-69880 [VDI] A, AD

Ref.	capacità mm.	VDI ISO	EURO (€)
HX-13 VDI-30	1 - 13	30	435,90
HX-13 VDI-40	1 - 13	40	456,18
HX-13 VDI-50	1 - 13	50	481,53
HX-16 VDI-30	3 - 16	30	456,18
HX-16 VDI-40	3 - 16	40	481,53
HX-16 VDI-50	3 - 16	50	506,87

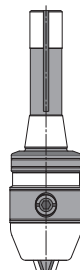
Refrigerazione interna opzionale, +8,68€/pz. (netto).

DIN-69893 A [HSK]

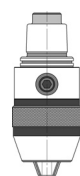
Ref.	capacità mm.	cono HSK	EURO (€)
HX-13 HSK-50	1 - 13	50	*
HX-13 HSK-50 /R	1 - 13	50	*
HX-13 HSK-63	1 - 13	63	506,87
HX-13 HSK-63 /R	1 - 13	63	532,19
HX-13 HSK-100	1 - 13	100	620,04
HX-13 HSK-100 /R	1 - 13	100	*
HX-16 HSK-50	3 - 16	50	563,69
HX-16 HSK-50 /R	3 - 16	50	620,52
HX-16 HSK-63	3 - 16	63	532,19
HX-16 HSK-63 /R	3 - 16	63	557,53
HX-16 HSK-100	3 - 16	100	645,86
HX-16 HSK-100 /R	3 - 16	100	*

* I modelli indicati con il codice "/R" sono forniti con la lubrificazione interna (AD).

* Prezzo sotto richiesta.

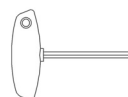
R-8

Ref.	capacità mm.	attacco K	EURO (€)
HX-13 R-8	1 - 13	R-8	340,90
HX-16 R-8	3 - 16	R-8	381,28

HEXA-B

Ref.	capacità mm.	per con morse	EURO (€)
HX-10 B	0 - 10	MT-4	252,40
HX-10 B/R	0 - 10	MT-4	261,57
HX-13 B	1 - 13	MT-4	269,64
HX-13 B/R	1 - 13	MT-4	276,22
HX-16 B	3 - 16	MT-4	309,10
HX-16 B/R	3 - 16	MT-4	322,25

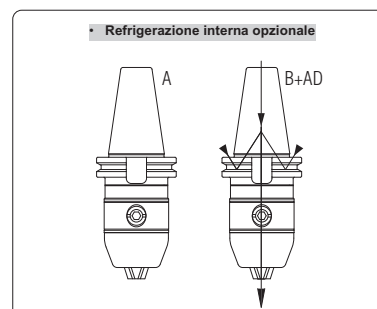
* I modelli indicati con il codice "/R" sono forniti con la lubrificazione interna (AD e B).

Chiave
(Ricambio)

Ref.	Per mandrini	EURO (€)
HX-1012	HEXA-SYSTEM	15,21
HX-1312	HEXA-SYSTEM	15,78

EQUILIBRATURA DINAMICA *

Fino a rpm	Grado	EURO (€)
15.000	G6,3	57,40
25.000	G6,3	76,11

 * Eccetto per mandrini HEXA-B.
 I prezzi della equilibratura sono NETTI.


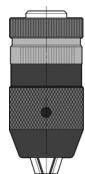
I modelli HEXA-SYSTEM si forniscono con chiave per serraggio.

CKS

Mandrini autoserranti (senza chiave)
serie standard per trapani portatili e fissi

Ref.	capacità mm.	attacco K	EURO (€)
CKS-04 B-10	0,5 - 4	B-10	54,71
CKS-04 J-1	0,5 - 4	J - 1	54,71
CKS-06 B-12	0,5 - 6,5	B - 12	43,65
CKS-06 J-1	0,5 - 6,5	J - 1	43,65
CKS-06 R-3/8	0,5 - 6,5	3/8" x 24	43,65
CKS-08 B-10	0,8 - 8	B - 10	52,28
CKS-08 B-12	0,8 - 8	B - 12	52,28
CKS-08 R-3/8	0,8 - 8	3/8" x 24	52,28
CKS-08 R-1/2	0,8 - 8	1/2" x 20	52,28
CKS-08 J-1	0,8 - 8	J - 1	52,28
CKS-08 J-2S	0,8 - 8	J - 2S	52,28
CKS-10 B-12	0,8 - 10	B - 12	61,48
CKS-10 B-16	0,8 - 10	B - 16	61,48
CKS-10 R-3/8	0,8 - 10	3/8" x 24	57,29
CKS-10 R-3/8 BL	0,8 - 10	3/8" x 24	59,36
CKS-10 R-1/2	0,8 - 10	1/2" x 20	57,29
CKS-10 R-1/2 BL	0,8 - 10	1/2" x 20	59,36
CKS-10 J-2	0,8 - 10	J - 2	61,48
CKS-10 J-33	0,8 - 10	J - 33	61,48
CKS-13 B-12	1 - 13	B - 12	69,25
CKS-13 B-16	1 - 13	B - 16	69,25
CKS-13 J-2	1 - 13	J - 2	69,25
CKS-13 J-33	1 - 13	J - 33	69,25
CKS-13 J-6	1 - 13	J - 6	69,25
CKS-13 R-3/8	2 - 13	3/8" x 24	61,79
CKS-13 R-3/8 BL	2 - 13	3/8" x 24	63,97
CKS-13 R-1/2	2 - 13	1/2" x 20	61,79
CKS-13 R-1/2 BL	2 - 13	1/2" x 20	63,97
CKS-16 B-16	3 - 16	B - 16	76,65
CKS-16 B-18	3 - 16	B - 18	76,65
CKS-16 J-33	3 - 16	J - 33	76,65
CKS-16 J-6	3 - 16	J - 6	76,65
CKS-16 R-1/2	3 - 16	1/2" x 20	76,65
CKS-16 R-5/8	3 - 16	5/8" x 16	76,65
CKS-20 B-18	5 - 20	B - 18	121,39
CKS-20 B-22	5 - 20	B - 22	121,39
CKS-20 J-3	5 - 20	J - 3	121,39

CKX

Mandrini autoserranti standard
con chiusura di sicurezza

Ref.	capacità mm.	attacco K	EURO (€)
CKX-10 B-12	0,8 - 10	B - 12	52,30
CKX-10 R-3/8	0,8 - 10	3/8" x 24h.	52,30
CKX-10 R-3/8 BL	0,8 - 10	3/8" x 24h.	54,19
CKX-10 R-1/2	0,8 - 10	1/2" x 20h.	52,30
CKX-10 R-1/2 BL	0,8 - 10	1/2" x 20h.	54,19
CKX-13 B-12	1 - 13	B - 12	59,52
CKX-13 B-16	1 - 13	B - 16	59,52
CKX-13 R-3/8	1 - 13	3/8" x 24h.	59,52
CKX-13 R-3/8 BL	1 - 13	3/8" x 24h.	61,41
CKX-13 R-1/2	1 - 13	1/2" x 20h.	59,52
CKX-13 R-1/2 BL	1 - 13	1/2" x 20h.	61,41

CPL

Mandrini per trapani portatili,
senza chiave

Ref.	capacità mm.	attacco K	EURO (€)
CPL-10 R-3/8	1 - 10	3/8" x 24	34,27
CPL-10 R-3/8 BL	1 - 10	3/8" x 24	36,09
CPL-10 R-3/8M*	1 - 10	3/8" x 24 M*	35,04
CPL-10 R-3/8M* BL	1 - 10	3/8" x 24 M*	36,88
CPL-10 R-1/2	1 - 10	1/2" x 20	34,27
CPL-10 R-1/2 BL	1 - 10	1/2" x 20	36,09
CPL-13 R-3/8	2 - 13	3/8" x 24	37,77
CPL-13 R-3/8 BL	2 - 13	3/8" x 24	39,59
CPL-13 R-3/8M*	2 - 13	3/8" x 24 M*	39,35
CPL-13 R-3/8M* BL	2 - 13	3/8" x 24 M*	41,19
CPL-13 R-1/2	2 - 13	1/2" x 20	37,77
CPL-13 R-1/2 BL	2 - 13	1/2" x 20	39,59
CPL-13 SDS PLUS	2 - 13	SDS PLUS	57,76

CPX

Mandrini senza chiave per trapani portatili reversibili
ed a percussione, calotta in PLASTICA, Anello di
fermo e Griffe con riporto in metallo duro⁽¹⁾.

Ref.	capacità mm.	attacco K	EURO (€)
CPX-10 R-3/8	1 - 10	3/8" x 24	37,73
CPX-10 R-3/8 BL	1 - 10	3/8" x 24	39,71
CPX-10 R-3/8M*	1 - 10	3/8" x 24 M*	38,57
CPX-10 R-3/8M* BL	1 - 10	3/8" x 24 M*	40,58
CPX-10 R-1/2	1 - 10	1/2" x 20	37,73
CPX-10 R-1/2 BL	1 - 10	1/2" x 20	39,71
CPX-13 R-3/8	2 - 13	3/8" x 24	41,64
CPX-13 R-3/8 BL	2 - 13	3/8" x 24	43,42
CPX-13 R-3/8M*	2 - 13	3/8" x 24 M*	43,13
CPX-13 R-3/8M* BL	2 - 13	3/8" x 24 M*	44,94
CPX-13 R-1/2	2 - 13	1/2" x 20	41,64
CPX-13 R-1/2 BL	2 - 13	1/2" x 20	43,42
CPX-13 SDS PLUS	2 - 13	SDS PLUS	61,02

CPM

Mandrini senza chiave per trapani portatili reversibili
ed a percussione, calotta in METALLO, Anello di
fermo e Griffe con riporto in metallo duro⁽¹⁾.

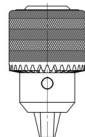
Ref.	capacità mm.	attacco K	EURO (€)
CPM-10 R-3/8	1 - 10	3/8" x 24	40,60
CPM-10 R-3/8 BL	1 - 10	3/8" x 24	42,15
CPM-10 R-3/8M*	1 - 10	3/8" x 24 M*	41,82
CPM-10 R-3/8M* BL	1 - 10	3/8" x 24 M*	43,68
CPM-10 R-1/2	1 - 10	1/2" x 20	40,60
CPM-10 R-1/2 BL	1 - 10	1/2" x 20	42,15
CPM-13 R-3/8	2 - 13	3/8" x 24	45,52
CPM-13 R-3/8 BL	2 - 13	3/8" x 24	47,37
CPM-13 R-3/8M*	2 - 13	3/8" x 24 M*	47,06
CPM-13 R-3/8M* BL	2 - 13	3/8" x 24 M*	49,22
CPM-13 R-1/2	2 - 13	1/2" x 20	45,52
CPM-13 R-1/2 BL	2 - 13	1/2" x 20	47,37
CPM-13 SDS PLUS	2 - 13	SDS PLUS	66,63

⁽¹⁾ Griffe con riporto in metallo duro (*soltanto per mandrini capacità 13 mm.) riducono il rischio di slittamento e migliorano la resistenza al logorio.

CPX e CPM forniti con vite M5 sin. (R-3/8") o M6 sin. (R-1/2) per fissare il mandrino al trapano.

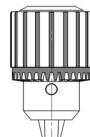
Nota : M* = filettato maschio
BL = imballaggio blister

CL

Mandrini con chiave
serie ultraleggeri

Ref.	capacità mm.	attacco K	EURO (€)
CL-06 B-10	0,8 - 6,5	B-10	13,57
CL-06 R-3/8	0,8 - 6,5	3/8" x 24	13,57
CL-06 R-3/8 BL	0,8 - 6,5	3/8" x 24	15,39
CL-06 ATOR	0,8 - 6,5	E-6,3	20,75
CL-10 B-12	1 - 10	B-12	13,58
CL-10 R-3/8	1 - 10	3/8" x 24	13,58
CL-10 R-3/8 BL	1 - 10	3/8" x 24	15,39
CL-10 R-3/8M*	1 - 10	3/8" x 24 M*	15,46
CL-10 R-3/8M* BL	1 - 10	3/8" x 24 M*	17,28
CL-10 R-1/2	1 - 10	1/2" x 20	13,58
CL-10 R-1/2 BL	1 - 10	1/2" x 20	15,39
CL-10 ATOR	1 - 10	E-6,3	20,75
CL-13 B-12	1,5 - 13	B-12	17,56
CL-13 B-16	1,5 - 13	B-16	17,56
CL-13 R-3/8	1,5 - 13	3/8" x 24	17,56
CL-13 R-3/8 BL	1,5 - 13	3/8" x 24	19,38
CL-13 R-3/8M*	1,5 - 13	3/8" x 24 M*	19,18
CL-13 R-3/8M* BL	1,5 - 13	3/8" x 24 M*	20,98
CL-13 R-1/2	1,5 - 13	1/2" x 20	17,56
CL-13 R-1/2 BL	1,5 - 13	1/2" x 20	19,38
CL-13 SDS PLUS	1,5 - 13	SDS PLUS	37,77
CL-16 B-16	3 - 16	B-16	24,67
CL-16 B-18	3 - 16	B-18	24,67
CL-16 R-1/2	3 - 16	1/2" x 20	24,67
CL-16 R-5/8	3 - 16	5/8" x 16	24,67
CL-16 SDS PLUS	3 - 16	SDS PLUS	45,05

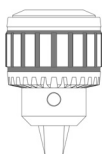
CY

Mandrini con chiave
serie industriale

Ref.	capacità mm.	attacco K	EURO (€)
CY-04 J-0	0,5 - 4	J - 0	40,21
CY-04 R-5/16	0,5 - 4	5/16" x 24	40,21
CY-06 B-10	0,8 - 6,5	B - 10	40,21
CY-06 B-12	0,8 - 6,5	B - 12	40,21
CY-06 J-1	0,8 - 6,5	J - 1	40,21
CY-06 R-3/8	0,8 - 6,5	3/8" x 24	40,21
CY-06 R-3/8 SP*	0,8 - 6,5	3/8" x 24	44,24
CY-10 B-12	1 - 10	B - 12	41,82
CY-10 B-16	1 - 10	B - 16	41,82
CY-10 J-1	1 - 10	J - 1	41,82
CY-10 J-2	1 - 10	J - 2	41,82
CY-10 J-2 SP*	1 - 10	J - 2	46,00
CY-10 R-3/8	1 - 10	3/8" x 24	41,82
CY-10 R-3/8 SP*	1 - 10	3/8" x 24	46,00
CY-10 R-1/2	1 - 10	1/2" x 20	41,82
CY-10 R-1/2 SP*	1 - 10	1/2" x 20	46,00
CY-13 B-12	1 - 13	B - 12	45,03
CY-13 B-16	1 - 13	B - 16	45,03
CY-13 J-6	1 - 13	J - 6	45,03
CY-13 J-33	1 - 13	J - 33	45,03
CY-13 R-3/8	1 - 13	3/8" x 24	45,03
CY-13 R-1/2	1 - 13	1/2" x 20	45,03
CY-13 R-5/8	1 - 13	5/8" x 16	45,03
CYX-13 J-2*	1 - 13	J - 2	49,55
CYX-13 J-6*	1 - 13	J - 6	49,55
CYX-13 J-33*	1 - 13	J - 33	49,55
CY-16 B-16	1 - 16	B - 16	57,90
CY-16 B-18	1 - 16	B - 18	57,90
CY-16 J-6	1 - 16	J - 6	57,90
CY-16 J-33	1 - 16	J - 33	57,90
CY-16 J-3	1 - 16	J - 3	57,90
CY-16 R-1/2	1 - 16	1/2" x 20	57,90
CY-16 R-5/8	1 - 16	5/8" x 16	57,90
CY-19 B-22	3 - 19	B - 22	88,47
CY-19 J-3	3 - 19	J - 3	88,47
CY-19 J-4	3 - 19	J - 4	88,47
CY-19 R-3/4	3 - 19	3/4" x 16	88,47
CY-19 R-5/8	3 - 19	5/8" x 16	88,47

* Modello più pesante.

CBB

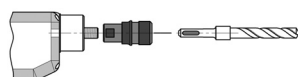
Mandrini con chiave, con gabbia a sfere per
equipaggiare macchine di foratura

Ref.	capacità mm.	attacco K	EURO (€)
CBB-08 J2	1 - 8	J - 2S	72,48
CBB-10 J2	1 - 10	J - 2S	78,68
CBB-13 J3	1 - 13	J - 3	94,25
CBB-13 J6	1 - 13	J - 6	94,25
CBB-16 J3	1 - 16	J - 3	116,86
CBB-19 J4	1 - 19	J - 4	159,68
CBB-25 J5	5 - 25	J - 5	246,93

SDS

Mandrino CAMBIO RAPIDO -per punte SDS-
per trapani elettrici a percussione

Ref.	attacco K	EURO (€)
SDS-CONVERT	1/2" x 20 UNF	43,78

Nota : M* = filettato maschio
BL = imballaggio blister

Accessori per mandrini
Codoli cono DIN-238


Ref.	cono		EURO (€)
	morse	DIN-238	
E-10/1	1	10	10,47
E-12/1	1	12	10,47
E-12/2	2	12	12,10
E-12/3	3	12	17,72
E-16/1	1	16	10,47
E-16/2	2	16	12,10
E-16/3	3	16	15,30
E-16/4	4	16	24,16
E-16/5	5	16	52,36
E-18/1	1	18	12,10
E-18/2	2	18	13,68
E-18/3	3	18	17,72
E-18/4	4	18	26,56
E-18/5	5	18	52,36
E-18c/1	1	18c*	12,10
E-18c/2	2	18c*	13,68
E-18c/3	3	18c*	17,72
E-18c/4	4	18c*	26,56
E-18c/5	5	18c*	52,36
E-22/2	2	22	14,74
E-22/3	3	22	16,40
E-22/4	4	22	24,61
E-22/5	5	22	54,65

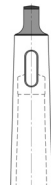
* per SP, SPX e CKS, a cono B18 raccorciato.

Codoli cono JACOBS

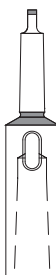

Ref.	cono		EURO (€)
	morse	Jacobs	
E-J0/1	1	0	12,77
E-J1/1	1	1	12,77
E-J2/1	1	2	12,77
E-J3/1	1	3	12,77
E-J6/1	1	6	12,77
E-J33/1	1	33	12,77
E-J1/2	2	1	13,67
E-J2/2	2	2	13,67
E-J3/2	2	3	13,67
E-J6/2	2	6	13,67
E-J33/2	2	33	13,67
E-J1/3	3	1	15,63
E-J2/3	3	2	15,63
E-J3/3	3	3	15,63
E-J6/3	3	6	15,63
E-J33/3	3	33	15,63
E-J4/3	3	4	15,63
E-J5/3	3	5	15,63
E-J2/4	4	2	25,29
E-J3/4	4	3	25,29
E-J6/4	4	6	25,29
E-J33/4	4	33	25,29
E-J4/4	4	4	25,29
E-J5/4	4	5	25,29
E-J5/5	5	5	38,46
E-J6/5	5	6	39,04

DIN-317

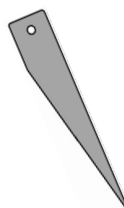

Ref.	cono		EURO (€)
	morse	UNF	
E-MT2-3/8	2	3/8 x 24	14,36
E-MT2-1/2	2	1/2 x 20	14,36
E-MT2-5/8	2	5/8 x 16	14,36

Riduzioni coniche DIN-2185


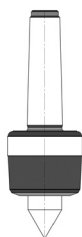
Ref.	cono		EURO (€)
	esteriore	interiore	
CR-2 x 1	2	1	20,16
CR-3 x 1	3	1	25,78
CR-3 x 2	3	2	23,34
CR-4 x 1	4	1	37,05
CR-4 x 2	4	2	34,64
CR-4 x 3	4	3	32,22
CR-5 x 1	5	1	56,39
CR-5 x 2	5	2	56,39
CR-5 x 3	5	3	56,39
CR-5 x 4	5	4	53,97
CR-6 x 2	6	2	94,80
CR-6 x 3	6	3	94,80
CR-6 x 4	6	4	89,03
CR-6 x 5	6	5	88,95

Prolunghe DIN-2187


Ref.	cono		EURO (€)
	esteriore	interiore	
CP 1x1	1	1	32,43
CP 1x2	1	2	36,06
CP 2x1	2	1	38,68
CP 2x2	2	2	42,55
CP 2x3	2	3	46,48
CP 3x1	3	1	54,28
CP 3x2	3	2	59,37
CP 3x3	3	3	59,37
CP 3x4	3	4	72,13
CP 4x1	4	1	72,13
CP 4x2	4	2	71,04
CP 4x3	4	3	69,95
CP 4x4	4	4	83,79
CP 4x5	4	5	114,96
CP 5x1	5	1	106,02
CP 5x2	5	2	103,10
CP 5x3	5	3	109,65
CP 5x4	5	4	114,96
CP 5x5	5	5	142,08
CP 6x4	6	4	284,01
CP 6x5	6	5	322,77

Estrattori
Din-317


Ref.	per cono morse		EURO (€)
CE 1-2	1, 2		4,87
CE 2-3	2, 3		7,47
CE 3-4	3, 4		8,85
CE 4-5	4, 5		13,24
CE 5-6	5, 6		23,96

Contropunte girevoli
Per torni tradizionali e CNC
Modello N


Ref.	cono morse	EURO (€)
R-200-N	2	125,27
R-300-N	3	151,55
R-400-N	4	193,05
R-500-N	5	280,78

Modello C


Ref.	cono morse	EURO (€)
R-300-C	3	172,29
R-400-C	4	220,15
R-500-C	5	313,50

Modello H


Ref.	cono morse	EURO (€)
R-300-H	3	185,84
R-400-H	4	236,91
R-500-H	5	339,01

Pezzi di ricambio (Assi)
mod. N, C & H

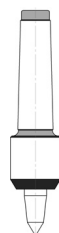
Ref.	per contropunte modello	EURO (€)
202-N	R-200-N	26,02
302-N	R-300-N	29,34
302-C	R-300-C	47,85
302-H	R-300-H	55,63
402-N	R-400-N	36,47
402-C	R-400-C	61,36
402-H	R-400-H	69,71
502-N	R-500-N	57,49
502-C	R-500-C	90,61
502-H	R-500-H	100,08

mod. RN, RC & RE

Ref.	per contropunte modello	EURO (€)
202-RE	R-200-RE	78,91
302-RN	R-200/300-RN	50,11
302-RC	R-200/300-RC	66,83
302-RE	R-300-RE	78,91
402-RN	R-400-RN	127,48
402-RC	R-400-RC	137,71
402-RE	R-400-RE	99,95
502-RN	R-500-RN	149,98
502-RC	R-500-RC	159,19
502-RE	R-500-RE	215,69

Contropunte girevoli
con corpo con dimensioni ridotte
Modello RN
 Cuspide standard

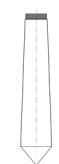

Ref.	cono morse	EURO (€)
R-200-RN	2	165,44
R-300-RN	3	191,51
R-400-RN	4	231,18
R-500-RN	5	346,64

Modello RC
 Cuspide prolungata


Ref.	cono morse	EURO (€)
R-200-RC	2	188,21
R-300-RC	3	224,60
R-400-RC	4	265,75
R-500-RC	5	406,51

Modello RE
 Cuspide a profilo


Ref.	cono morse	EURO (€)
R-200-RE	2	281,35
R-300-RE	3	312,20
R-400-RE	4	368,20
R-500-RE	5	525,41

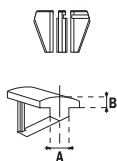
*** Contropunte fisse**
**Acciaio per utensili
cuscini in acciaio**


Ref.	cono morse	EURO (€)
PFN-100	1	15,78
PFN-200	2	20,00
PFN-300	3	25,12
PFN-400	4	41,91
PFN-500	5	79,80
PFN-600	6	191,86

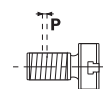
**con punta in
metallo duro**


Ref.	cono morse	EURO (€)
PFD-100	1	37,45
PFD-200	2	54,53
PFD-300	3	78,96
PFD-400	4	87,79
PFD-500	5	167,90
PFD-600	6	335,60

*** PRODOTTO FUORI CATALOGO, DISPONIBILE
FINO A ESAURIMENTO DI STOCK.**

**Ricambi per mandrini
 SP, SPX, SPS, NPU e HEXA**
Griffe
 (serie di 3)


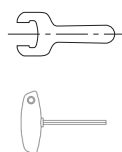
Ref.	per mandrini capacità (mm.)	dimensioni AxB mm.	EURO (€)
SP-01061	0 - 1,5	2 x 1,3	83,52
SP-03061	0 - 3	2,5 x 1,5	34,68
SP-06061	0 - 6,5	3,75 x 1,5	26,75
SP-08062	0 - 8	4,4 x 2,5	27,56
SP-10061	0 - 10	4,4 x 2,5	27,84
SP-13062	1 - 13	5 x 2,5	28,32
SP-16062	3 - 16	5 x 2,5	29,40

Vite


Ref.	per mandrini modello	EURO (€)
SP-0105	SP-1,5	20,39
SP-0305	SP / NPU-03	11,60
SP-0605	SP / NPU-06	10,38
SP-0805	SP / SPX-08	10,38
SP-1005	SP / SPX-10	10,38
SP-1305	SP / SPX-13	11,26
SP-1605	SP / SPX-16	11,26
NPU-0805	NPU / SPS-08	12,12
NPU-1005	NPU / SPS-10	10,38
NPU-1305*	NPU* / SPS-13	12,95
NPU-13051**	NPU-13**	12,95
NPU-1605	NPU / SPS-16	13,35

Calotta


SP-0104	SP-1,5	28,78
SP-0304	SP / NPU-03	35,46
SP-0604	SP / NPU-06	34,62
SP-0804	SP / SPX / SPS / NPU-08	34,62
SP-1004	SP / SPX / SPS / NPU-10	35,46
SP-1304	SP / SPX / SPS / NPU-13	36,35
SP-1604	SP / SPX / SPS / NPU-16	37,22
PS-1304	HX-13	36,35
PS-1604	HX-16	37,22

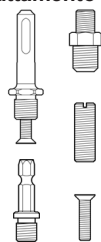
Chiavi


SPX-0612	SPX-06	15,30
SPX-0812	SPX / SPS / NPU-08	15,30
SPX-1012	SPX / SPS / NPU-10	15,30
SPX-1312	SPX / SPS *** / NPU-13	15,30
SPX-1612	SPX / SPS / NPU-16	15,30
HX-1012	HX-10	15,21
HX-1312	HX-13 / HX-16	15,78

* P = 3 mm..

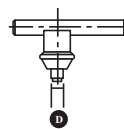
** P = 2,25 mm. (per modelli NPU-13 da Maggio 2000).

*** Tranne i modelli SPS-13 MT-4, CL-32 E R-8, i quali richiedono la chiave SPX-1612.

Accessori per mandrini
**Raccordi di
 adattamento**


Ref.	filettato	attacco	EURO (€)
C - 51	3/8" x 24	3/8" x 24	2,51
C - 52	3/8" x 24	1/2" x 20	2,99
C - 53	1/2" x 20	SDS - PLUS*	20,24
C - 54	3/8" x 24	Hex. 1/4" DIN-3126	8,59
C - 56	M6	1/2" x 20	0,79
C - 57	M5	3/8" x 24	0,75

* C-53 include vite M6 sin.

Accessori per mandrini
**Chiave per mandrini CL, CY, CBB,
 CSS e HYBRID**


Ref.	D mm	n° denti	per mandrini	EURO (€)
S2/K34	6	12	CL-13, CY-10	2,41
S8/K30	6	10	CBB-08	4,25
S9/K32	6,3	10	CBB-10	4,36
S10/K3	8	11	CL-16, CY-16, CBB13, CYX13, SPH-13, SPH-16 (Hybrid)	3,54
S13/K4	9,5	12	CY-19, CBB-16, CBB-19, SPH-20	8,72
S14/KG	6	11	CL-06, CL-10	2,41
S17/K2	6,3	11	CY-13, SPH-06, SPH-10	2,41
CK4	5,5	12	CY-06	4,69
K0	3,2	11	CY-04	4,36
K5	11	12	CBB-25	10,19
K0M	3,2	11	CSS-04 GE	21,97
K1M	4	11	CSS-06 GE-DS	21,97
K0T	3,2	11	SPH-03	46,02
K1T	4	11	SPH-07	46,02
K10M	5,5	12	CSS-10 GE	23,51

**ACCIAIO
 INOSSIDABILE**
Ricambi per mandrini
CKS
Griffe
 (serie di 3)


Ref.	per mandrini modello	EURO (€)
CKS-0406	CKS-04	22,78
CKS-0686	CKS-06	20,13
SP-08062	CKS-08, CKS-10, CKS-13 ⁽¹⁾	27,56
SP-13062	CKS-13 ⁽²⁾ , CKS-16	28,32
SP-16062	CKS-20	29,40

Vite


CKS-0405	CKS-04	12,57
CKS-0605	CKS-06	7,80
SP-1005	CKS-08, CKS-10	10,38
CKS-13051	CKS-13 ⁽¹⁾	11,26
SP-1305	CKS-13 ⁽²⁾	11,26
CKS-16051	CKS-16	12,95
CKS-20051	CKS-20	16,15

Calotta


CKS-0404	CKS-04	27,88
CKS-0684	CKS-06	18,16
CKS-08041	CKS-08, CKS-10 ⁽¹⁾	19,88
CKS-10041	CKS-10 ⁽²⁾	19,88
CKS-13041	CKS-13 ⁽²⁾	26,83
CKS-13042	CKS-13 ⁽¹⁾	26,83
CKS-16041	CKS-16	33,73
CKS-20041	CKS-20	38,34

(1) Mandrini con attacco filetto UNF.

(2) Mandrini con cono DIN o JACOBS.

A Magazzino LLAMBRICH in ITALIA

F. Ili COLOMBO, S.A.S.

Via Pelizza da Volpedo, 56/F
20092 Cinisello Balsamo (MI)
Tel.: 02.61294385
Fax.: 02.61294354
e-mail: info.colombo@mepas.it

1 LOMBARDIA:

CAVALLERI Paolo
Fax 0245 100033
Cell. 335 6750827

e-mail: paolocavalleri.sas@gmail.com

2 TRIVENETO:

CAPOVIN Mauro
Fax 0445 366581
Cell. 336 211610

e-mail: mauro.capovin@gmail.com

3 PIEMONTE

PEINETTI Gabriele
Tel. 0123 417681
Fax 1782708350
Cell. 335 6289850

e-mail: gabriele.peinetti@gmail.com

4 EMILIA ROMAGNA

FUN srl.
TABANELLI Claudio
Tel. 051 436861
Fax 051 436795
Cell. 335 6910285

e-mail: comm@funct.it



5 TOSCANA - UMBRIA

NATI David
Tel. 055 661590
Fax 055 667586
Cell. 335 6438710

e-mail: info@natirappresentanze.it

6 CAMPANIA - CALABRIA - LAZIO

FPC di Catena Francesco Paolo
Tel. 081 3056018
Fax 081 3056018
Cell. 347 3681087

e-mail: fpcnap@hotmail.it

7 PUGLIA - BASILICATA

Ba - Fg : Gallisaj Mauro Cell. 347 3608016

Br - Le - Ta : Gallisaj Enrico Cell. 347 0941554

Pz - Mt : Massimino Canio Cell. 348 3009187

Fax 080 9190566

e-mail: info@maurogallisaj.it

8 MARCHE - ABRUZZO

FEDERICO Gabriele
Fax 085 4407397
Cell. 335 8431413

e-mail: info@rtiweb.it

9 SICILIA

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