

EVO

ETH.01

| Tool Holders

| Mandrini



TOOL HOLDERS

EVO



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| Mandrini



TOOL HOLDERS

EVO



... THE WAY TO THE FUTURE!

EVO International Group Srl

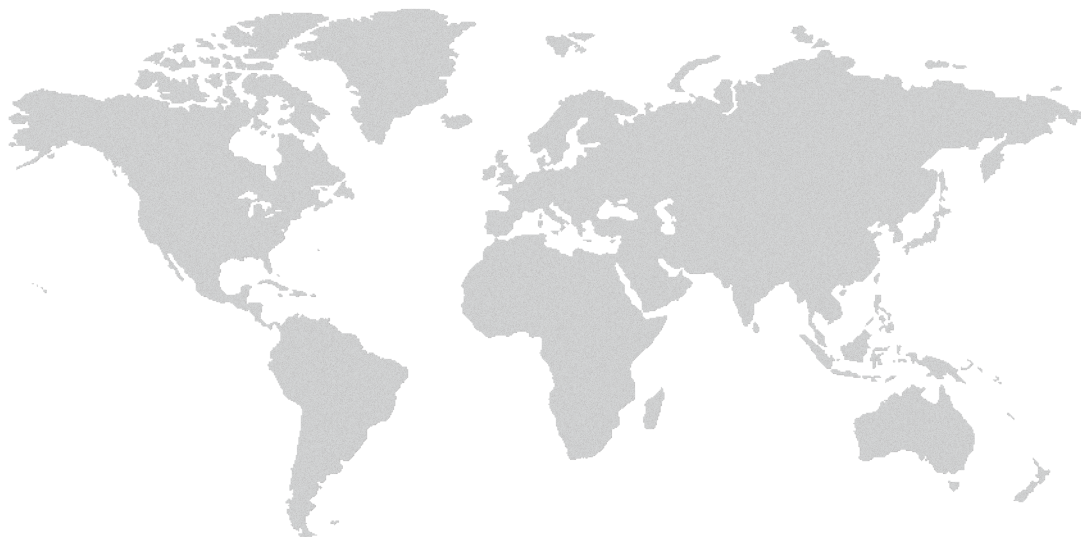
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EVO is a trademark of a wide range of products for the metalworking production with the guarantee of a high technological content and a customized service.

The experience gained through years of work in big and well-structured Companies, sales and service in the metalworking sector has led us to understand the needs of our customers and to use this knowledge to search for the most suitable and advanced solutions to optimize the production. The tests, the study of the results and the contact with the producers able to offer quality and performance are the steps that characterize our work and the brand EVO wants to be the seal that makes us recognizable on the market. Oils, high precision tools, clamping systems, circular saw blades: the products of our range are manufactured by a network of suppliers, chosen on the basis of the excellence in materials and technologies used, the certification of product and process, the availability of stock. The close collaboration with external suppliers and the direct production of some product lines allow us to customize our offer.

EVO stems from the desire to support the Companies and to keep offering tools and efficient solutions in line with their development.

The **EVO TOOL HOLDERS** catalog was created to meet the need that we have ever experienced in in the field of machining by chip removal: to obtain the maximum performance from the tool, the precision of the clamping is essential and only systems with the best quality can guarantee the success of a work.

EVO TOOL HOLDERS is a complete range of spindles and accessories: we have the line of hydraulic chucks for milling which ensure a strong clamping with vibration damping and maintains a high precision in the machining cycle; shrink fit chucks to obtain the maximum adaptability to working conditions, elevated rigidity and precision, universal spindles characterized by ease of use and versatility of application. The peculiarity of our offer is to provide all kinds of attack, including those with high rigidity of the new generation as the conical polygonal. Our catalog facilitates the choice of the spindle by presenting the products grouped by type of attack machine in an easy and intuitive way. To complete the offer we have got ER-holders, shell mill holder, test arbors, tapping holders and a wide range of standard and optional accessories.



EVO è il marchio che caratterizza la nostra offerta di prodotti per tutti i settori della lavorazione dei metalli, con la garanzia di un alto contenuto tecnologico e un servizio personalizzato.

L'esperienza maturata in anni di lavoro presso contesti strutturati e realtà di rilievo, vendita e assistenza nelle aziende metalmeccaniche, ci ha portato a interpretare le esigenze dei nostri clienti e a partire da esse per ricercare le soluzioni più idonee e all'avanguardia per ottimizzare la produzione. Prove, studio dei risultati, contatto con i produttori in grado di offrire qualità e prestazioni sono i passi che caratterizzano il nostro lavoro e il marchio EVO vuole essere il sigillo di garanzia che ci rende riconoscibili sul mercato. Olio, utensili di precisione, sistemi di serraggio, lame circolari: i prodotti della nostra gamma provengono da un network di fornitori selezionati per eccellenza nei materiali e nelle tecnologie utilizzati, certificazioni di prodotto e di processo, disponibilità di magazzino. La stretta collaborazione con i fornitori esterni e la produzione diretta di alcune linee di prodotto ci consentono di personalizzare la nostra offerta.

EVO nasce dalla volontà di affiancare le aziende per continuare a offrire strumenti e soluzioni efficienti, in linea con la loro evoluzione.

Il catalogo **EVO TOOL HOLDERS** nasce per soddisfare un'esigenza che abbiamo sempre avvertito nella nostra esperienza nel campo delle lavorazioni meccaniche per asportazione di truciolo: per ottenere la massima prestazione dagli utensili un serraggio di precisione è fondamentale e solo sistemi di ottima qualità possono garantire la perfetta riuscita di un lavoro.

EVO TOOL HOLDERS è una gamma completa di mandrini e accessori portautensili: i mandrini idraulici per fratura che garantiscono un forte serraggio, smorzano le vibrazioni e mantengono un'alta precisione nel ciclo di lavorazione; i mandrini a calettamento a caldo per ottenere la massima adattabilità alle condizioni di lavoro, altissima rigidità e precisione; i mandrini universali caratterizzati da facilità d'uso e versatilità di applicazione. Peculiarità della nostra offerta è quella di prevedere tutti i tipi di attacco, compresi quelli a forte rigidità di nuova generazione come l'attacco conico poligonale. Il nostro catalogo facilita la scelta del mandrino presentando i prodotti raggruppati per tipologia di attacco macchina in modo semplice e intuitivo. Completano l'offerta portapinzze, portafrese a manicotto, portatestine, barre di calibrazione, maschiatori e una vasta gamma di accessori standard e a richiesta.

TOOL HOLDER TYPE | TIPO DI MANDRINO:

HYF	= Milling hydraulic chuck Mandrino idraulico di fresatura	TT-R/L	= Turning tool holder axial triple - right/left Portautensile assiale triplo per tornitura - destro/sinistro
HYFS	= Milling hydraulic chuck -reduced Mandrino idraulico di fresatura - scaricato	T45-R/L	= Turning tool holder 45° - right/left Portautensile 45° per tornitura - destro/sinistro
HY	= Hydraulic chuck Mandrino idraulico	RT	= Turning tool holder - radial Portautensile per tornitura - radiale
HYS	= Hydraulic chuck - reduced Mandrino idraulico - scaricato	GR	= Grooving tool holder - radial Portautensile per scanalature - radiale
HY-LS	= Hydraulic chuck reduced - long Mandrino idraulico scaricato - lungo	T95-CNMG12-R/L	= Turning tool 95° for CNMG 12 - right/left Utensile di tornitura 95° per CNMG 12 - destro/sinistro
HY-EK	= Hydraulic chuck - extra short Mandrino idraulico - extra corto	T93-DNMG15-R/L	= Turning tool 93° for DNMG 15 - right/left Utensile di tornitura 93° per DNMG 15 - destro/sinistro
UDC	= Universal drill chuck Mandrino portapunte	T93-DCMT11-R/L	= Turning tool 93° for DCMT 11 - right/left Utensile di tornitura 93° per DCMT 11 - destro/sinistro
SF	= Shrink fit Calettamento a caldo	T95-WNMG08-R/L	= Turning tool 95° for WNMG 08 - right/left Utensile di tornitura 95° per WNMG 08 - destro/sinistro
SF-S	= Shrink fit - slim Calettamento a caldo - snello	T62.5-DCMT11	= Turning tool 62.5° for DCMT 11 Utensile di tornitura 62.5° per DCMT 11
SF-ES	= Shrink fit - extra slim Calettamento a caldo - extra snello	B95-CCMT09-R/L	= Boring bar 95° for CCMT 09 - right/left Utensile di barenatura 95° per CCMT 09 - destro/sinistro
W	= Weldon chuck Mandrino Weldon	B93-DCMT11-R/L	= Boring bar 93° for DCMT 11 - right/left Utensile di barenatura 93° per DCMT 11 - destro/sinistro
DH	= Drill chuck Portapunte	B107.5-VCMT16-R/L	= Boring bar 107.5° for VCMT 16 - right/left Utensile di barenatura 107.5° per VCMT 16 - destro/sinistro
ER-S	= ER chuck - slim Mandrino portapinze ER - snello	KT-A	= KT - Axial adapter KT - Adattatore assiale
ER-N	= ER chuck - normal Mandrino portapinze ER - normale	KT-RX	= KT - Radial adapter (external) KT - Adattatore radiale (esterno)
ER-NT	= ER chuck - standard with thread Mandrino portapinze ER - standard con filetto interno	KT-AX	= KT - Axial adapter (external) KT - Adattatore assiale (esterno)
ER-LT	= ER chuck - long with thread Mandrino portapinze ER - lungo con filetto	KT-RI	= KT - Radial adapter (internal) KT - Adattatore radiale (interno)
ER-MN	= Mini collet ER chuck Mandrino portapinze ER mini	KT-RS	= KT - Radial adapter for star turret KT - Adattatore radiale per torretta a stella
SM	= Shell mill holder Portafrese a manicotto	KT-VD	= KT - Adapter vertical dual KT - Adattatore verticale doppio
SM-L	= Shell mill holder - long Portafrese a manicotto - lungo	KT-VH	= KT - Adapter vertical/horizontal KT - Adattatore verticale/orizzontale
SM-E	= Shell mill holder - enlarged Portafrese a manicotto - maggiorato	KT-RE	= KT Extension with radial clamping Prolunga KT con bloccaggio radiale
SI	= Screw-In milling cutters holder Portatestine con filetto interno	TA	= Test arbor Barra di calibrazione
TB	= Tool blanks Barra grezza		
TH	= Tapping chuck Mandrino maschiatore		
KT-AE	= KT extension with axial clamping Prolunga KT con bloccaggio assiale		
KT-RE	= KT extension with radial clamping Prolunga KT con bloccaggio radiale		
KT-CR	= KT with cylindrical reduction KT con riduzione cilindrica		
KT-TR	= KT with tapered reduction KT con riduzione conica		
KT-RR	= KT reduction with radial clamping Riduzione KT con bloccaggio radiale		
BH	= Boring bar holder Portabareni		
ST-R/L	= Turning tool holder axial single - right/left Portautensile assiale singolo per tornitura - destro/sinistro		
DT-R/L	= Turning tool holder axial double - right/left Portautensile assiale doppio per tornitura - destro/sinistro		

TOOL HOLDER ATTACHMENT AND COOLANT TYPE | TIPO DI ATTACCO MANDRINO E TIPOLOGIA DI LUBRIFICAZIONE:

SK-AD = DIN69871 Form AD | DIN69871 Forma AD
 SK-AD/B = DIN69871 Form AD/B | DIN69871 Forma AD/B
 SK-AF = DIN69871 Form AF | DIN69871 Forma AF
 SK-A = DIN69871 Form A | DIN69871 Forma A
 BT-AD = MAS403BT/JISB6339 Form AD | MAS403BT/JISB6339 Forma AD
 BT-AD/B = MAS403BT/JISB6339 Form AD/B | MAS403BT/JISB6339 Forma AD/B
 BT-AF = MAS403BT/JISB6339 Form AF | MAS403BT/JISB6339 Forma AF
 BT-A = MAS403BT/JISB6339 Form A | MAS403BT/JISB6339 Forma A
 HSK = DIN69839
 HSK-A = DIN69839-1
 HSK-A-AF = DIN69839-1 Form AF | DIN69839-1 Form AF
 HSK-A-AD = DIN69839-1 Form AD | DIN69839-1 Form AD
 HSK-E = DIN69893-5
 HSK-F = DIN69893-6
 KT = ISO26623
 VDI = Adapter VDI to ISO26623 | Adattatore da VDI a ISO26623
 DIN 2079 = Adapter DIN2079 to ISO26623 | Adattatore da DIN2079 a ISO26623

**ATTACHMENT
DIMENSION |
DIMENSIONE
ATTACCO:**

032 = Ø 32 mm
 040 = Ø 40 mm
 050 = Ø 50 mm
 063 = Ø 63 mm
 ...

SK-AD/B . 040 . HYF . 06 . 120

TOOL HOLDER TYPE | TIPO DI MANDRINO:

CE-HY = Hydraulic cylindrical extension | Prolunga cilindrica idraulica
 CE-EM = Cylindrical chuck for ER mini collet | Mandrino cilindrico per pinze ER mini
 CE-EN = Cylindrical chuck for ER collet | Mandrino cilindrico per pinze ER
 UDC = Universal drill chuck | Mandrino portapunte
 SF-SV = Shrink fit - standard version | Calettamento a caldo - versione standard
 SF = Shrink fit | Calettamento a caldo
 SF-S = Shrink fit - slim | Calettamento a caldo - snello
 ER = ER Collet | Pinze ER
 SI = Screw-In milling cutters chuck | Portatestine con filetto interno
 SB = Saw blade holder | Mandrino portalamina

**TOOL'S
DIAMETER |
DIAMETRO
DELL'UTENSILE:**

06 = 6 mm
 10 = 10 mm
 ...

**TOOL HOLDER
LENGHT |
LUNGHEZZA
MANDRINO :**

080 = 80 mm
 120 = 120 mm
 ...

CIL . 020 . CE . 06 . 120

SHANK ATTACHMENT | ATTACCO GAMBO:

CIL = Cylindrical attachment | Attacco cilindrico
 CIL-W = Cylindrical attachment with Weldon | Attacco cilindrico con Weldon
 CIL-VDI = Cylindrical attachment with VDI | Attacco cilindrico con VDI
 CE = Cylindrical extension | Prolunga cilindrica

**SHANK DIAMETER |
DIAMETRO GAMBO:**

020 = 20 mm
 ...

TOOL HOLDERS

EVOR



TOOL HOLDERS

SK	DIN 69871	8
MAS-BT	MAS403BT/JIS B 6339	36
HSK-A	DIN 69893-1	66
HSK-E	DIN 69893-5	93
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SK

MAS-BT

HSK-A

HSK-E

HSK-F

KT

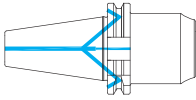
CYLINDRICS

ACCESSORIES



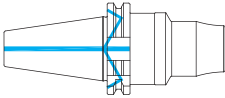


HYF


Milling hydraulic chuck
Mandrino idraulico per fresatura
DIN
69871Form
AD/BG 2,5
25.000 rpm

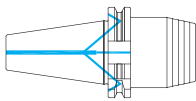
12

HYF-S


Milling hydraulic chuck - reduced
Mandrino idraulico per fresatura - scaricato
DIN
69871Form
AD/BG 2,5
25.000 rpm

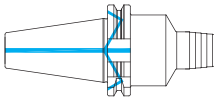
13

HY


Hydraulic chuck
Mandrino idraulico
DIN
69871Form
AD/BG 2,5
25.000 rpm

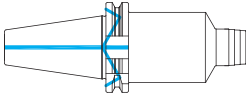
14

HYS


Hydraulic chuck - reduced
Mandrino idraulico - scaricato
DIN
69871Form
AD/BG 2,5
25.000 rpm

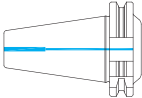
15

HY-LS


Hydraulic chuck - reduced long
Mandrino idraulico - scaricato lungo
DIN
69871Form
AD/BG 2,5
25.000 rpm

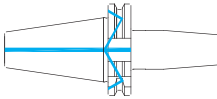
16

HY-EK


Hydraulic chuck - extra short
Mandrino idraulico - extra corto
DIN
69871Form
ADG 2,5
25.000 rpm

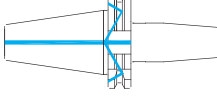
17

SF 40


Shrink fit chuck
Mandrino calettamento a caldo
DIN
69871Form
AD/BG 2,5
25.000 rpm

18

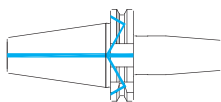
SF 50


Shrink fit chuck
Mandrino a calettamento a caldo
DIN
69871Form
AD/BG 2,5
25.000 rpm

19



SF-S 40/50



Shrink fit chuck - slim
Mandrino calettamento a caldo - snello

DIN
69871

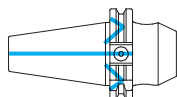
Form
AD/B



G 2,5
25.000 rpm

20

W 40



Weldon chuck
Mandrino Weldon

DIN
69871

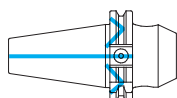
Form
AD/B



G 2,5
25.000 rpm

21

W 50



Weldon chuck
Mandrino Weldon

DIN
69871

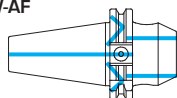
Form
AD/B



G 2,5
12.000 rpm

22

W-AF



Weldon chuck with front coolant
Mandrino Weldon con refrigerante frontale

DIN
69871

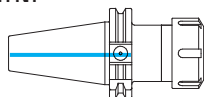
Form
AF



G 6,3
15.000 rpm

23

ER-NT



ER chuck with internal thread
Portapinze ER con filetto interno

DIN
69871

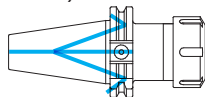
Form
AD



G 6,3
15.000 rpm

24

ER-NT AD/B



ER chuck with internal thread
Portapinze ER con filetto interno

DIN
69871

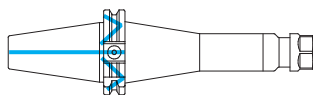
Form
AD/B



G 6,3
15.000 rpm

25

ER-LT AD/B



ER chuck with internal thread - long
Portapinze ER con filetto interno - lungo

DIN
69871

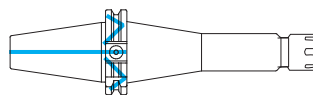
Form
AD/B



G 6,3
12.000 rpm

26

ER-MN



Mini nut ER chuck with internal thread
Portapinze ER mini con filetto interno

DIN
69871

Form
AD/B

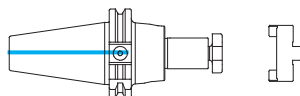


G 6,3
12.000 rpm

27



SM

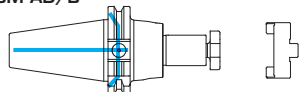


Shell end mill holder
Portafrese a manicotto

DIN 69871	Form AD				G 6,3 8.000 rpm
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28

SM AD/B

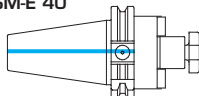


Shell end mill holder
Portafrese a manicotto

DIN 69871	Form AD/B				G 6,3 8.000 rpm
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29

SM-E 40

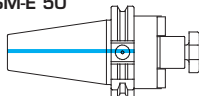


Shell end mill holder - enlarged
Portafrese a manicotto - maggiorato

DIN 69871	Form AD				G 6,3 8.000 rpm
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30

SM-E 50

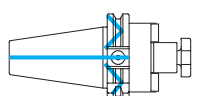


Shell end mill holder - enlarged
Portafrese a manicotto - maggiorato

DIN 69871	Form AD				G 6,3 8.000 rpm
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31

SM-E AD/B

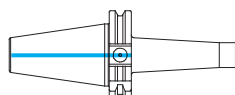


Shell end mill holder - enlarged
Portafrese a manicotto - maggiorato

DIN 69871	Form AD/B				G 6,3 8.000 rpm
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32

SI

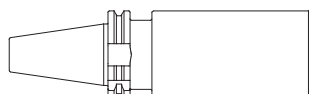


Screw-In milling cutters holder
Portatestine con filetto interno

DIN 69871	Form AD				G 2,5 20.000 rpm
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33

TB

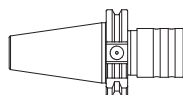


Tool blank
Barra grezza

DIN 69871					
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34

TH



Tapping chuck
Mandrino maschiatore

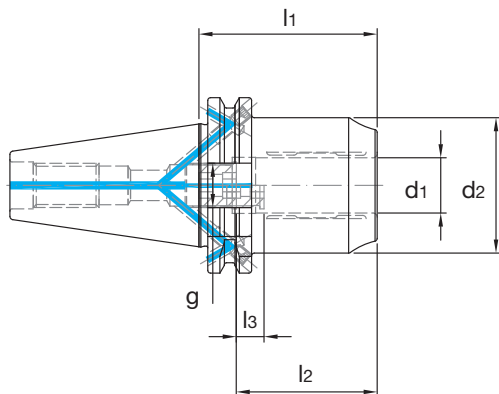
DIN 69871					
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35

TOOL HOLDERS

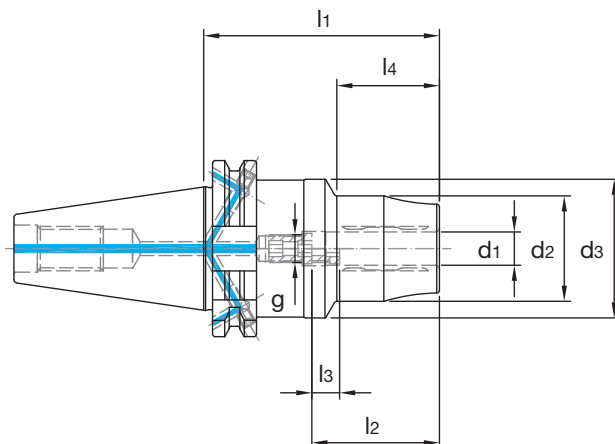
EXOR





G 2,5
25.000 rpm

art.	SK	d1	d2		I1	I2	I3		g	kg			€
SK-AD/B. 040 . HYF . 20 . 064	40	20	49		64,5	51	10		M16x1	1,4			309,00
SK-AD/B. 050 . HYF . 20 . 064	50	20	49		64,5	51	10		M16x1	3,1			349,00
SK-AD/B. 050 . HYF . 32 . 081	50	32	72		81	61	10		M16x1	4,1			349,00

DIN
69871Form
AD/B

G 2,5
25.000 rpm

art.	SK	d1	d2	d3	l1	l2	l3	l4	g	kg			€
SK-AD/B. 040 . HYF-S. 06. 075	40	6	32	50	75	37	10	26	M5	1,4			573,00
SK-AD/B. 040 . HYF-S. 08. 075	40	8	34	50	75	37	10	27	M6	1,4			573,00
SK-AD/B. 040 . HYF-S. 10. 080	40	10	36	50	80	41	10	32	M8x1	1,4			573,00
SK-AD/B. 040 . HYF-S. 12. 085	40	12	38	50	85	46	10	37	M10x1	1,5			510,00
SK-AD/B. 040 . HYF-S. 14. 085	40	14	40	50	85	46	10	37	M10x1	1,6			573,00
SK-AD/B. 040 . HYF-S. 16. 090	40	16	42	50	90	49	10	42	M12x1	1,6			573,00
SK-AD/B. 040 . HYF-S. 18. 090	40	18	44	50	90	49	10	42	M12x1	1,7			573,00
SK-AD/B. 040 . HYF-S. 20. 095	40	20	48	50	95	51	10	45	M16x1	1,7			510,00
SK-AD/B. 040 . HYF-S. 25. 110	40	25	57	50	110	57	10	60	M16x1	2,2			573,00
SK-AD/B. 040 . HYF-S. 32. 120	40	32	63	50	120	61	10	65	M16x1	2,5			573,00

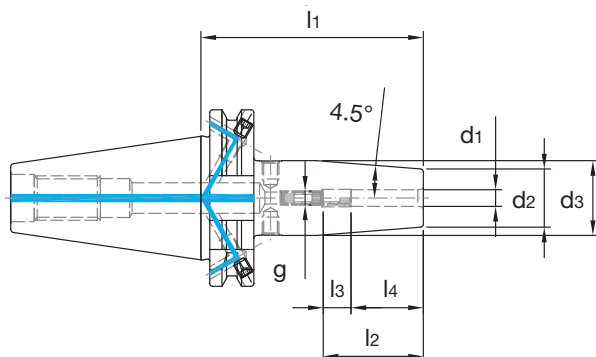


art.	SK	d1	d2		l1	l2	l3		g	kg			€
SK-AD/B. 040 . HY .20. 064	40	20	49,5		64,5	51	10		M16x1	1,3			269,00
SK-AD/B. 050 . HY .32. 081	50	32	72		81	61	10		M16x1	3,9			303,00

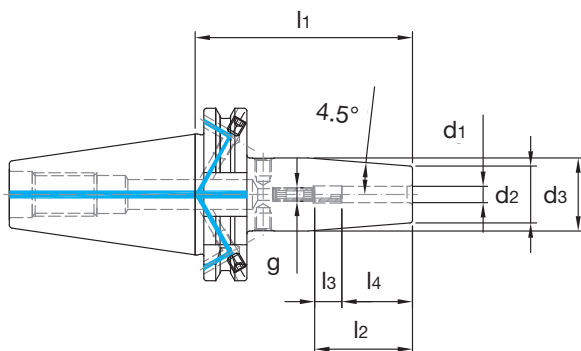




SK-AD/B. 050 . HY-LS .06. 110 50	6	26	49,5	110	37	10	29	M5	4,1				911,00
SK-AD/B. 050 . HY-LS .08. 110 50	8	28	49,5	110	37	10	30	M6	4,1				911,00
SK-AD/B. 050 . HY-LS .10. 110 50	10	30	49,5	110	41	10	35	M8x1	4,1				911,00
SK-AD/B. 050 . HY-LS .12. 110 50	12	32	49,5	110	46	10	40	M10x1	4,3				790,00
SK-AD/B. 050 . HY-LS .14. 110 50	14	34	49,5	110	46	10	40	M10x1	4,3				911,00
SK-AD/B. 050 . HY-LS .16. 110 50	16	38	49,5	110	49	10	45	M12x1	4,3				911,00
SK-AD/B. 050 . HY-LS .18. 110 50	18	40	49,5	110	49	10	46	M12x1	4,5				911,00
SK-AD/B. 050 . HY-LS .20. 110 50	20	42	49,5	110	51	10	42	M16x1	4,5				790,00
SK-AD/B. 050 . HY-LS .25. 110 50	25	55	63	110	57	10	48	M16x1	4,7				911,00
SK-AD/B. 050 . HY-LS .32. 110 50	32	63	70	110	61	10	61	M16x1	4,8				911,00

DIN
69871Form
AD/BG 2,5
25.000 rpm

art.	SK	d1	d2	d3	l1	l2	l3	l4	g	kg	Form screw	€
SK-AD/B . 040 . SF . 03 . 080 40	3	10	17	80	28	16	12	M 6	0,9	A		186,00
SK-AD/B . 040 . SF . 03 . 120 40	3	10	20	120	-	-	12	-	1,0	A		205,00
SK-AD/B . 040 . SF . 03 . 160 40	3	10	20	160	-	-	12	-	1,0	A		231,00
SK-AD/B . 040 . SF . 04 . 080 40	4	15	22	80	28	12	16	M 6	0,9	A		181,00
SK-AD/B . 040 . SF . 04 . 120 40	4	15	22	120	-	-	16	-	1,0	A		200,00
SK-AD/B . 040 . SF . 04 . 160 40	4	15	22	160	-	-	16	-	1,1	A		227,00
SK-AD/B . 040 . SF . 05 . 080 40	5	15	22	80	30	10	20	M 6	0,9	A		181,00
SK-AD/B . 040 . SF . 05 . 120 40	5	15	22	120	-	-	20	-	1,0	A		200,00
SK-AD/B . 040 . SF . 05 . 160 40	5	15	22	160	-	-	20	-	1,1	A		227,00
SK-AD/B . 040 . SF . 06 . 080 40	6	21	27	80	36	10	26	M 5	1,1	A		139,00
SK-AD/B . 040 . SF . 06 . 120 40	6	21	27	120	36	10	26	M 5	1,1	A		203,00
SK-AD/B . 040 . SF . 06 . 160 40	8	21	27	160	36	10	26	M 5	1,3	A		218,00
SK-AD/B . 040 . SF . 08 . 080 40	8	21	27	80	36	10	26	M 6	1,1	A		139,00
SK-AD/B . 040 . SF . 08 . 120 40	8	21	27	120	36	10	26	M 6	1,1	A		203,00
SK-AD/B . 040 . SF . 08 . 160 40	8	21	27	160	36	10	26	M 6	1,3	A		218,00
SK-AD/B . 040 . SF . 10 . 080 40	10	24	32	80	41	10	31	M 8x1	1,1	A		139,00
SK-AD/B . 040 . SF . 10 . 120 40	10	24	32	120	41	10	31	M 8x1	1,2	A		203,00
SK-AD/B . 040 . SF . 10 . 160 40	10	24	32	160	41	10	31	M 8x1	1,5	A		218,00
SK-AD/B . 040 . SF . 12 . 080 40	12	24	32	80	47	10	37	M 10x1	1,1	A		139,00
SK-AD/B . 040 . SF . 12 . 120 40	12	24	32	120	47	10	37	M 10x1	1,2	A		203,00
SK-AD/B . 040 . SF . 12 . 160 40	12	24	32	160	47	10	37	M 10x1	1,6	A		218,00
SK-AD/B . 040 . SF . 14 . 080 40	14	27	34	80	47	10	37	M 10x1	1,1	A		139,00
SK-AD/B . 040 . SF . 14 . 120 40	14	27	34	120	47	10	37	M 10x1	1,3	A		203,00
SK-AD/B . 040 . SF . 14 . 160 40	14	27	34	160	47	10	37	M 10x1	1,7	A		218,00
SK-AD/B . 040 . SF . 16 . 080 40	16	27	34	80	50	10	40	M 12x1	1,1	A		139,00
SK-AD/B . 040 . SF . 16 . 120 40	16	27	34	120	50	10	40	M 12x1	1,4	A		203,00
SK-AD/B . 040 . SF . 16 . 160 40	16	27	34	160	50	10	40	M 12x1	1,7	A		218,00
SK-AD/B . 040 . SF . 18 . 080 40	18	33	42	80	50	10	40	M 12x1	1,3	A		139,00
SK-AD/B . 040 . SF . 18 . 120 40	18	33	42	120	50	10	40	M 12x1	1,5	A		203,00
SK-AD/B . 040 . SF . 18 . 160 40	18	33	42	160	50	10	40	M 12x1	2,1	A		218,00
SK-AD/B . 040 . SF . 20 . 080 40	20	33	42	80	52	10	42	M 16x1	1,2	A		139,00
SK-AD/B . 040 . SF . 20 . 120 40	20	33	42	120	52	10	42	M 16x1	1,6	A		203,00
SK-AD/B . 040 . SF . 20 . 160 40	20	33	42	160	52	10	42	M 16x1	2,1	A		218,00
SK-AD/B . 040 . SF . 25 . 100 40	25	44	53	100	58	10	48	M 16x1	1,6	A		139,00
SK-AD/B . 040 . SF . 25 . 120 40	25	44	53	120	58	10	48	M 16x1	1,8	A		203,00
SK-AD/B . 040 . SF . 25 . 160 40	25	44	53	160	58	10	48	M 16x1	2,5	A		218,00
SK-AD/B . 040 . SF . 32 . 100 40	32	44	53	100	62	10	52	M 16x1	1,4	A		139,00
SK-AD/B . 040 . SF . 32 . 120 40	32	44	53	120	62	10	52	M 16x1	1,7	A		203,00
SK-AD/B . 040 . SF . 32 . 160 40	32	44	53	160	62	10	52	M 16x1	2,4	A		218,00



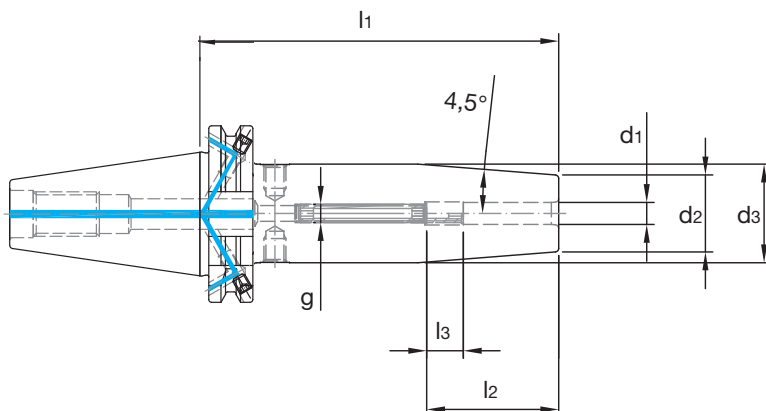
DIN
69871

Form
AD/B

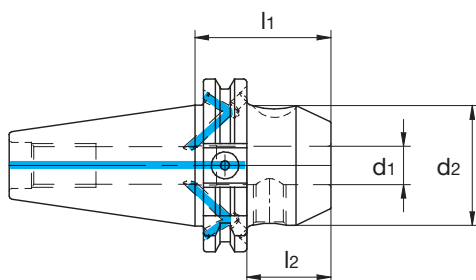


G 2,5
25.000 rpm

Article code	SK	d1	l1	d2	d3	l2	g	l3	l4	kg	Form screw	€
SK-AD/B . 050 . SF . 03 . 080	50	3	80	10	17	-	-	-	12	2,7	A	251,00
SK-AD/B . 050 . SF . 03 . 120	50	3	120	10	20	-	-	-	12	2,8	A	276,00
SK-AD/B . 050 . SF . 03 . 160	50	3	160	10	20	-	-	-	12	3	A	314,00
SK-AD/B . 050 . SF . 04 . 080	50	4	80	15	22	-	-	-	16	2,7	A	251,00
SK-AD/B . 050 . SF . 04 . 120	50	4	120	15	22	-	-	-	16	2,8	A	276,00
SK-AD/B . 050 . SF . 04 . 160	50	4	160	15	22	-	-	-	16	3	A	314,00
SK-AD/B . 050 . SF . 05 . 080	50	5	80	15	22	-	-	-	20	2,7	A	251,00
SK-AD/B . 050 . SF . 05 . 120	50	5	120	15	22	-	-	-	20	2,8	A	276,00
SK-AD/B . 050 . SF . 05 . 160	50	5	160	15	22	-	-	-	20	3	A	314,00
SK-AD/B . 050 . SF . 06 . 080	50	6	80	21	27	36	M5	10	26	2,9	A	222,00
SK-AD/B . 050 . SF . 06 . 120	50	6	120	21	27	36	M5	10	26	2,9	A	263,00
SK-AD/B . 050 . SF . 06 . 160	50	6	160	21	27	36	M5	10	26	3,3	A	285,00
SK-AD/B . 050 . SF . 06 . 200	50	6	200	21	27	36	M5	10	-	3,3	B	336,00
SK-AD/B . 050 . SF . 08 . 080	50	8	80	21	27	36	M6	10	26	2,9	A	222,00
SK-AD/B . 050 . SF . 08 . 120	50	8	120	21	27	36	M6	10	26	3	A	263,00
SK-AD/B . 050 . SF . 08 . 160	50	8	160	21	27	36	M6	10	26	3,3	A	285,00
SK-AD/B . 050 . SF . 08 . 200	50	8	200	21	27	36	M6	10	-	3,3	B	336,00
SK-AD/B . 050 . SF . 10 . 080	50	10	80	24	32	41	M8x1	10	31	3,1	A	222,00
SK-AD/B . 050 . SF . 10 . 120	50	10	120	24	32	41	M8x1	10	31	3	A	263,00
SK-AD/B . 050 . SF . 10 . 160	50	10	160	24	32	41	M8x1	10	31	3,3	A	285,00
SK-AD/B . 050 . SF . 10 . 200	50	10	200	24	34	41	M8x1	10	-	3,7	B	336,00
SK-AD/B . 050 . SF . 12 . 080	50	12	80	24	32	47	M10x1	10	37	2,9	A	222,00
SK-AD/B . 050 . SF . 12 . 120	50	12	120	24	32	47	M10x1	10	37	3	A	263,00
SK-AD/B . 050 . SF . 12 . 160	50	12	160	24	32	47	M10x1	10	37	3,4	A	285,00
SK-AD/B . 050 . SF . 12 . 200	50	12	200	24	34	47	M10x1	10	-	3,6	B	336,00
SK-AD/B . 050 . SF . 14 . 080	50	14	80	27	34	47	M10x1	10	37	2,9	A	222,00
SK-AD/B . 050 . SF . 14 . 120	50	14	120	27	34	47	M10x1	10	37	3,1	A	263,00
SK-AD/B . 050 . SF . 14 . 160	50	14	160	27	34	47	M10x1	10	37	3,5	A	285,00
SK-AD/B . 050 . SF . 14 . 200	50	14	200	27	36	47	M10x1	10	-	3,8	B	336,00
SK-AD/B . 050 . SF . 16 . 080	50	16	80	27	34	50	M12x1	10	40	2,9	A	222,00
SK-AD/B . 050 . SF . 16 . 120	50	16	120	27	34	50	M12x1	10	40	3,1	A	263,00
SK-AD/B . 050 . SF . 16 . 160	50	16	160	27	34	50	M12x1	10	40	3,5	A	285,00
SK-AD/B . 050 . SF . 16 . 200	50	16	200	27	36	50	M12x1	10	-	3,7	B	336,00
SK-AD/B . 050 . SF . 18 . 080	50	18	80	33	42	50	M12x1	10	40	3,0	A	222,00
SK-AD/B . 050 . SF . 18 . 120	50	18	120	33	42	50	M12x1	10	40	3,3	A	263,00
SK-AD/B . 050 . SF . 18 . 160	50	18	160	33	42	50	M12x1	10	40	3,9	A	285,00
SK-AD/B . 050 . SF . 18 . 200	50	18	200	33	44	50	M12x1	10	-	4,3	B	336,00
SK-AD/B . 050 . SF . 20 . 080	50	20	80	33	42	52	M16x1	10	42	3,0	A	222,00
SK-AD/B . 050 . SF . 20 . 120	50	20	120	33	42	52	M16x1	10	42	3,3	A	358,00
SK-AD/B . 050 . SF . 20 . 160	50	20	160	33	42	52	M16x1	10	42	3,7	A	285,00
SK-AD/B . 050 . SF . 20 . 200	50	20	200	33	44	52	M16x1	10	-	4,1	B	336,00
SK-AD/B . 050 . SF . 25 . 100	50	25	100	44	53	58	M16x1	10	48	3,6	A	222,00
SK-AD/B . 050 . SF . 25 . 120	50	25	120	44	53	58	M16x1	10	48	3,8	A	263,00
SK-AD/B . 050 . SF . 25 . 160	50	25	160	44	53	58	M16x1	10	48	4,5	A	285,00
SK-AD/B . 050 . SF . 25 . 200	50	25	200	44	53	58	M16x1	10	-	5,0	B	336,00
SK-AD/B . 050 . SF . 32 . 100	50	32	100	44	53	62	M16x1	10	52	3,4	A	222,00
SK-AD/B . 050 . SF . 32 . 120	50	32	120	44	53	62	M16x1	10	52	3,8	A	263,00
SK-AD/B . 050 . SF . 32 . 160	50	32	160	44	53	62	M16x1	10	52	4,4	A	285,00
SK-AD/B . 050 . SF . 32 . 200	50	32	200	44	53	61	M16x1	10	-	4,8	B	336,00

DIN
69871Form
AD/BG 2,5
15.000 rpm

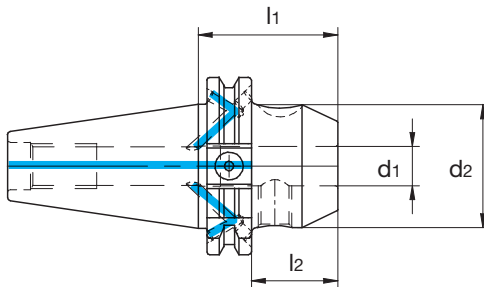
art.	SK	d1	d2	d3	l1	l2				g	kg	Form screw		€
SK-AD/B . 040 . SF-S . 03 . 120	40	3	9	25	120	-	-			-	1	B		216,00
SK-AD/B . 040 . SF-S . 03 . 160	40	3	9	25	160	-	-			-	1,1	B		241,00
SK-AD/B . 040 . SF-S . 04 . 120	40	4	9	25	120	-	-			-	1	B		216,00
SK-AD/B . 040 . SF-S . 04 . 160	40	4	9	25	160	-	-			-	1,1	B		241,00
SK-AD/B . 040 . SF-S . 05 . 120	40	5	9	25	120	-	-			-	1	B		190,00
SK-AD/B . 040 . SF-S . 05 . 160	40	5	9	25	160	-	-			-	1,1	B		225,00
SK-AD/B . 040 . SF-S . 06 . 120	40	6	15	31	120	36	10			M5	1,1	B		190,00
SK-AD/B . 040 . SF-S . 06 . 160	40	6	15	30	160	36	10			M5	1,3	B		225,00
SK-AD/B . 040 . SF-S . 08 . 120	40	8	15	31	120	36	10			M6	1,1	B		190,00
SK-AD/B . 040 . SF-S . 08 . 160	40	8	15	30	160	36	10			M6	1,3	B		225,00
SK-AD/B . 040 . SF-S . 10 . 120	40	10	18	34	120	41	10			M8X1	1,2	B		190,00
SK-AD/B . 040 . SF-S . 10 . 160	40	10	18	32	160	41	10			M8X1	1,4	B		225,00
SK-AD/B . 040 . SF-S . 12 . 120	40	12	18	34	120	47	10			M10X1	1,1	B		190,00
SK-AD/B . 040 . SF-S . 12 . 160	40	12	18	32	160	47	10			M10X1	1,4	B		225,00
SK-AD/B . 050 . SF-S . 03 . 120	50	3	9	25	120	-	-			-	2,8	B		320,00
SK-AD/B . 050 . SF-S . 03 . 160	50	3	9	25	160	-	-			-	2,9	B		346,00
SK-AD/B . 050 . SF-S . 04 . 120	50	4	9	25	120	-	-			-	2,8	B		320,00
SK-AD/B . 050 . SF-S . 04 . 160	50	4	9	25	160	-	-			-	2,9	B		346,00
SK-AD/B . 050 . SF-S . 05 . 120	50	5	9	25	120	-	-			-	2,8	B		320,00
SK-AD/B . 050 . SF-S . 05 . 160	50	5	9	25	160	-	-			-	2,9	B		346,00
SK-AD/B . 050 . SF-S . 06 . 120	50	6	15	31	120	36	10			M5	2,9	B		265,00
SK-AD/B . 050 . SF-S . 06 . 160	50	6	15	30	160	36	10			M5	3,1	B		319,00
SK-AD/B . 050 . SF-S . 08 . 120	50	8	15	31	120	36	10			M6	2,9	B		365,00
SK-AD/B . 050 . SF-S . 08 . 160	50	8	15	30	160	36	10			M6	3,1	B		319,00
SK-AD/B . 050 . SF-S . 10 . 120	50	10	18	34	120	41	10			M8X1	3	B		265,00
SK-AD/B . 050 . SF-S . 10 . 160	50	10	18	32	160	41	10			M8X1	3,2	B		319,00
SK-AD/B . 050 . SF-S . 12 . 120	50	12	18	34	120	47	10			M10X1	2,9	B		265,00
SK-AD/B . 050 . SF-S . 12 . 160	50	12	18	32	160	47	10			M10X1	3,1	B		319,00


DIN
69871

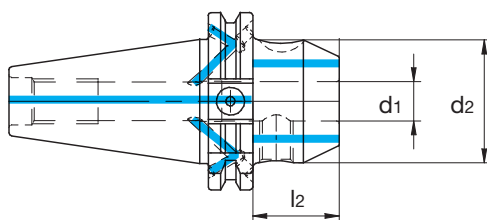
Form
AD/B

G 2,5
12.000 rpm

art.	SK	d1	d2	l1	l2	Tol./d1	kg					€
SK-AD/B . 040 . W . 06 . 050 40	6	25	50	31		+0.005	0,9					61,00
SK-AD/B . 040 . W . 06 . 100 40	6	25	100	81		+0.005	1,1					75,00
SK-AD/B . 040 . W . 06 . 160 40	6	25	160	141		+0.005	1,3					123,00
SK-AD/B . 040 . W . 08 . 050 40	8	28	50	31		+0.005	1					59,00
SK-AD/B . 040 . W . 08 . 100 40	8	28	100	81		+0.005	1,1					68,00
SK-AD/B . 040 . W . 08 . 130 40	8	28	130	-		-	-					134,00
SK-AD/B . 040 . W . 08 . 160 40	8	28	160	141		+0.005	1,4					118,00
SK-AD/B . 040 . W . 08 . 200 40	8	28	200	-		-	-					160,00
SK-AD/B . 040 . W . 10 . 050 40	10	35	50	31		+0.005	1					59,00
SK-AD/B . 040 . W . 10 . 100 40	10	35	100	81		+0.005	1,3					68,00
SK-AD/B . 040 . W . 10 . 130 40	10	35	130	-		-	-					134,00
SK-AD/B . 040 . W . 10 . 160 40	10	35	160	141		+0.005	1,7					118,00
SK-AD/B . 040 . W . 10 . 200 40	10	35	200	-		-	-					160,00
SK-AD/B . 040 . W . 12 . 050 40	12	42	50	31		+0.005	1,1					58,00
SK-AD/B . 040 . W . 12 . 100 40	12	42	100	81		+0.005	1,6					68,00
SK-AD/B . 040 . W . 12 . 130 40	12	42	130	-		-	-					134,00
SK-AD/B . 040 . W . 12 . 160 40	12	42	160	141		+0.005	2,1					118,00
SK-AD/B . 040 . W . 12 . 200 40	12	42	200	-		-	-					160,00
SK-AD/B . 040 . W . 14 . 050 40	14	44	50	31		+0.005	1,1					59,00
SK-AD/B . 040 . W . 14 . 100 40	14	44	100	81		+0.005	1,6					68,00
SK-AD/B . 040 . W . 14 . 130 40	14	44	130	-		-	-					134,00
SK-AD/B . 040 . W . 14 . 160 40	14	44	160	141		+0.005	2,3					118,00
SK-AD/B . 040 . W . 14 . 200 40	14	44	200	-		-	-					160,00
SK-AD/B . 040 . W . 16 . 063 40	16	48	63	44		+0.005	1,3					59,00
SK-AD/B . 040 . W . 16 . 100 40	16	48	100	81		+0.005	1,8					68,00
SK-AD/B . 040 . W . 16 . 130 40	16	48	130	-		-	-					134,00
SK-AD/B . 040 . W . 16 . 160 40	16	48	160	141		+0.005	2,6					118,00
SK-AD/B . 040 . W . 16 . 200 40	16	48	200	-		-	-					160,00
SK-AD/B . 040 . W . 18 . 063 40	18	50	63	44		+0.005	1,3					59,00
SK-AD/B . 040 . W . 18 . 100 40	18	50	100	81		+0.005	1,9					68,00
SK-AD/B . 040 . W . 18 . 160 40	18	50	160	141		+0.005	2,7					118,00
SK-AD/B . 040 . W . 20 . 063 40	20	52	63	44		+0.007	1,3					59,00
SK-AD/B . 040 . W . 20 . 100 40	20	52	100	81		+0.007	1,9					68,00
SK-AD/B . 040 . W . 20 . 130 40	20	52	130	-		-	-					134,00
SK-AD/B . 040 . W . 20 . 160 40	20	52	160	141		+0.007	2,9					118,00
SK-AD/B . 040 . W . 20 . 200 40	20	52	200	-		-	-					160,00
SK-AD/B . 040 . W . 25 . 100 40	25	65	100	81		+0.007	2,3					68,00
SK-AD/B . 040 . W . 25 . 130 40	25	65	130	-		-	-					145,00
SK-AD/B . 040 . W . 25 . 160 40	25	65	160	141		+0.007	3,8					129,00
SK-AD/B . 040 . W . 25 . 200 40	25	65	200	-		-	-					175,00
SK-AD/B . 040 . W . 32 . 100 40	32	72	100	81		+0.007	2,5					73,00
SK-AD/B . 040 . W . 32 . 130 40	32	72	130	-		-	-					163,00
SK-AD/B . 040 . W . 32 . 160 40	32	72	160	141		+0.007	4,4					139,00
SK-AD/B . 040 . W . 32 . 200 40	32	72	200	-		-	-					189,00
SK-AD/B . 040 . W . 40 . 115 40	40	80	115	-		-	-					161,00

DIN
69871Form
AD/BG 2,5
12.000 rpm

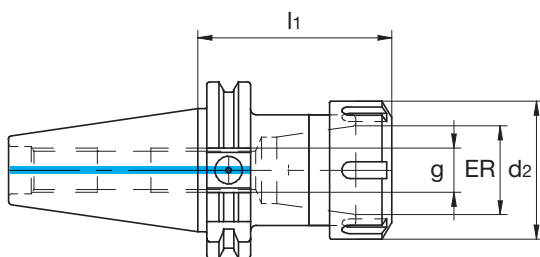
art.	SK	d1	d2	l1	l2		Tol./d1	kg					€
SK-AD/B. 050 . W .06. 063 50	6	25	63	44			+0.005	2,8					88,00
SK-AD/B. 050 . W .06. 100 50	6	25	100	81			+0.005	2,9					104,00
SK-AD/B. 050 . W .06. 130 50	6	25	130	-			-	-					199,00
SK-AD/B. 050 . W .06. 160 50	6	25	160	141			+0.005	3,1					158,00
SK-AD/B. 050 . W .06. 200 50	6	25	200	-			-	-					237,00
SK-AD/B. 050 . W .08. 063 50	8	28	63	44			+0.005	2,8					84,00
SK-AD/B. 050 . W .08. 100 50	8	28	100	81			+0.005	3					97,00
SK-AD/B. 050 . W .08. 130 50	8	28	130	-			-	-					180,00
SK-AD/B. 050 . W .08. 160 50	8	28	160	141			+0.005	3,2					153,00
SK-AD/B. 050 . W .08. 200 50	8	28	200	-			-	-					218,00
SK-AD/B. 050 . W .10. 063 50	10	35	63	44			+0.005	2,9					84,00
SK-AD/B. 050 . W .10. 100 50	10	35	100	81			+0.005	3,2					102,00
SK-AD/B. 050 . W .10. 130 50	10	35	130	-			-	-					180,00
SK-AD/B. 050 . W .10. 160 50	10	35	160	141			+0.005	3,6					153,00
SK-AD/B. 050 . W .10. 200 50	10	35	200	-			-	-					218,00
SK-AD/B. 050 . W .12. 063 50	12	42	63	44			+0.005	3					84,00
SK-AD/B. 050 . W .12. 100 50	12	42	100	81			+0.005	3,4					102,00
SK-AD/B. 050 . W .12. 130 50	12	42	130	-			-	-					180,00
SK-AD/B. 050 . W .12. 160 50	12	42	160	141			+0.005	4					153,00
SK-AD/B. 050 . W .12. 200 50	12	42	200	-			-	-					218,00
SK-AD/B. 050 . W .14. 063 50	14	44	63	44			+0.005	3					84,00
SK-AD/B. 050 . W .14. 100 50	14	44	100	81			+0.005	3,4					102,00
SK-AD/B. 050 . W .14. 130 50	14	44	130	-			-	-					180,00
SK-AD/B. 050 . W .14. 160 50	14	44	160	141			+0.005	4					153,00
SK-AD/B. 050 . W .14. 200 50	14	44	200	-			-	-					218,00
SK-AD/B. 050 . W .16. 063 50	16	48	63	44			+0.005	3					84,00
SK-AD/B. 050 . W .16. 100 50	16	48	100	81			+0.005	3,5					102,00
SK-AD/B. 050 . W .16. 130 50	16	48	130	-			-	-					180,00
SK-AD/B. 050 . W .16. 160 50	16	48	160	141			+0.005	4,2					153,00
SK-AD/B. 050 . W .16. 200 50	16	48	200	-			-	-					218,00
SK-AD/B. 050 . W .18. 063 50	18	50	63	44			+0.005	3,1					84,00
SK-AD/B. 050 . W .18. 100 50	18	50	100	81			+0.005	3,6					102,00
SK-AD/B. 050 . W .18. 160 50	18	50	160	141			+0.005	4,3					153,00
SK-AD/B. 050 . W .20. 063 50	20	52	63	44			+0.007	3,1					84,00
SK-AD/B. 050 . W .20. 100 50	20	52	100	81			+0.007	3,6					102,00
SK-AD/B. 050 . W .20. 130 50	20	52	130	-			-	-					180,00
SK-AD/B. 050 . W .20. 160 50	20	52	160	141			+0.007	4,5					153,00
SK-AD/B. 050 . W .20. 200 50	20	52	200	-			-	-					218,00
SK-AD/B. 050 . W .25. 080 50	25	65	80	61			+0.007	3,7					95,00
SK-AD/B. 050 . W .25. 100 50	25	65	100	81			+0.007	4,2					123,00
SK-AD/B. 050 . W .25. 130 50	25	65	130	-			-	-					186,00
SK-AD/B. 050 . W .25. 160 50	25	65	160	141			+0.007	5,6					158,00
SK-AD/B. 050 . W .25. 200 50	25	65	200	-			-	-					228,00
SK-AD/B. 050 . W .32. 100 50	32	72	100	81			+0.007	4,5					102,00
SK-AD/B. 050 . W .32. 130 50	32	72	130	-			-	-					191,00
SK-AD/B. 050 . W .32. 160 50	32	72	160	141			+0.007	6,3					165,00
SK-AD/B. 050 . W .32. 200 50	32	72	200	-			-	-					250,00
SK-AD/B. 050 . W .40. 120 50	40	80	120	81			+0.007	4,7					110,00



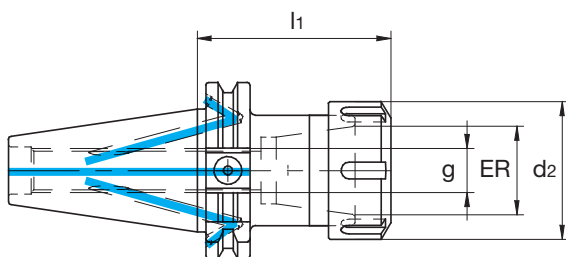
DIN 69871	Form AF				G 6,3 15.000 rpm
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art.		SK	d1	d2			l1							€
SK-AF	. 040 . W . 06 . 050	40	6	25			50							141,00
SK-AF	. 040 . W . 08 . 050	40	8	28			50							131,00
SK-AF	. 040 . W . 10 . 050	40	10	35			50							131,00
SK-AF	. 040 . W . 12 . 050	40	12	42			50							131,00
SK-AF	. 040 . W . 14 . 050	40	14	44			50							131,00
SK-AF	. 040 . W . 16 . 063	40	16	48			63							131,00
SK-AF	. 040 . W . 18 . 063	40	18	50			63							131,00
SK-AF	. 040 . W . 20 . 063	40	20	52			63							131,00
SK-AF	. 040 . W . 25 . 100	40	25	65			100							144,00
SK-AF	. 040 . W . 32 . 110	40	32	72			100							155,00
SK-AF	. 040 . W . 40 . 115	40	40	80			115							198,00

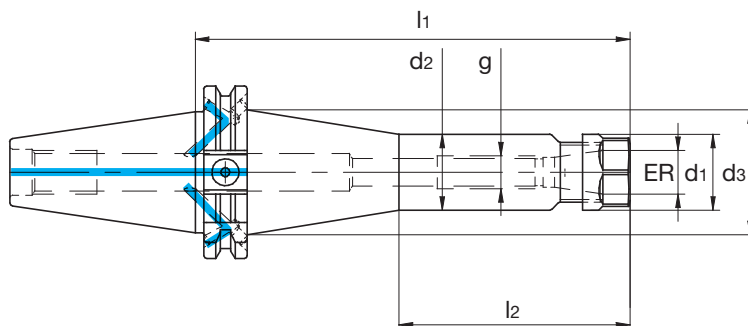
SK-AF	.050	W	.06	.063	50	6	25			63							194,00
SK-AF	.050	W	.08	.063	50	8	28			63							186,00
SK-AF	.050	W	.10	.063	50	10	35			63							186,00
SK-AF	.050	W	.12	.063	50	12	42			63							186,00
SK-AF	.050	W	.14	.063	50	14	44			63							186,00
SK-AF	.050	W	.16	.063	50	16	48			63							186,00
SK-AF	.050	W	.18	.063	50	18	50			63							186,00
SK-AF	.050	W	.20	.063	50	20	52			63							186,00
SK-AF	.050	W	.25	.080	50	25	65			80							194,00
SK-AF	.050	W	.32	.100	50	32	72			100							204,00
SK-AF	.050	W	.40	.120	50	40	80			120							231,00

DIN
69871Form
ADG 6,3
15.000 rpm

art.	SK	ER	d2	l1	g	kg	€
SK-AD . 030 . ER-NT . 20 . 055	30	ER 20 (1 - 13)	35	55	M8x20	-	76,00
SK-AD . 030 . ER-NT . 20 . 100	30	ER 20 (1 - 13)	35	100	M8x20	-	103,00
SK-AD . 030 . ER-NT . 25 . 055	30	ER 25 (1 - 16)	42	55	M18x1,5x8	-	76,00
SK-AD . 030 . ER-NT . 25 . 100	30	ER 25 (1 - 16)	42	100	M18x1,5x8	-	103,00
SK-AD . 030 . ER-NT . 32 . 060	30	ER 32 (2 - 20)	50	60	M18x1,5x8	-	76,00
SK-AD . 030 . ER-NT . 32 . 100	30	ER 32 (2 - 20)	50	100	M18x1,5x8	-	103,00
SK-AD . 040 . ER-NT . 16 . 070	40	ER 16 (1 - 10)	32	70	M10x30	-	66,00
SK-AD . 040 . ER-NT . 16 . 100	40	ER 16 (1 - 10)	32	100	M10x30	-	89,00
SK-AD . 040 . ER-NT . 16 . 160	40	ER 16 (1 - 10)	32	160	M10x30	-	114,00
SK-AD . 040 . ER-NT . 20 . 070	40	ER 20 (1 - 13)	35	70	M12x20	-	83,00
SK-AD . 040 . ER-NT . 20 . 100	40	ER 20 (1 - 13)	35	100	M12x30	-	103,00
SK-AD . 040 . ER-NT . 20 . 160	40	ER 20 (1 - 13)	35	160	M12x30	-	127,00
SK-AD . 040 . ER-NT . 25 . 070	40	ER 25 (1 - 16)	32	70	M 16	1	75,00
SK-AD . 040 . ER-NT . 25 . 100	40	ER 25 (1 - 16)	32	100	M 16	1,1	95,00
SK-AD . 040 . ER-NT . 25 . 160	40	ER 25 (1 - 16)	42	160	M18x1,5x8	-	114,00
SK-AD . 040 . ER-NT . 25 . 200	40	ER 25 (1 - 16)	42	200	M18x1,5x8	-	133,00
SK-AD . 040 . ER-NT . 32 . 070	40	ER 32 (2 - 20)	40	70	M 16	1,0	80,00
SK-AD . 040 . ER-NT . 32 . 100	40	ER 32 (2 - 20)	40	100	M 16	1,3	95,00
SK-AD . 040 . ER-NT . 32 . 130	40	ER 32 (2 - 20)	50	130	M22x1,5x8	-	105,00
SK-AD . 040 . ER-NT . 32 . 160	40	ER 32 (2 - 20)	50	160	M22x1,5x8	-	116,00
SK-AD . 040 . ER-NT . 32 . 200	40	ER 32 (2 - 20)	50	200	M22x1,5x8	-	138,00
SK-AD . 040 . ER-NT . 40 . 080	40	ER 40 (3 - 26)	50	80	M 16	1,2	84,00
SK-AD . 040 . ER-NT . 40 . 100	40	ER 40 (3 - 30)	63	100	M27x1,5x8	-	106,00
SK-AD . 040 . ER-NT . 40 . 120	40	ER 40 (3 - 26)	50	120	M 16	1,8	111,00
SK-AD . 040 . ER-NT . 40 . 160	40	ER 40 (3 - 30)	63	160	M27x1,5x8	-	129,00
SK-AD . 040 . ER-NT . 40 . 200	40	ER 40 (3 - 30)	63	200	M27x1,5x8	-	143,00
SK-AD . 050 . ER-NT . 25 . 070	50	ER 25 (1 - 16)	42	70	M18x1,5x8	-	117,00
SK-AD . 050 . ER-NT . 25 . 100	50	ER 25 (1 - 16)	42	100	M18x1,5x8	-	147,00
SK-AD . 050 . ER-NT . 25 . 160	50	ER 25 (1 - 16)	42	160	M18x1,5x8	-	175,00
SK-AD . 050 . ER-NT . 25 . 200	50	ER 25 (1 - 16)	42	200	M18x1,5x8	-	204,00
SK-AD . 050 . ER-NT . 32 . 070	50	ER 32 (2 - 20)	50	70	M22x1,5x8	-	117,00
SK-AD . 050 . ER-NT . 32 . 100	50	ER 32 (2 - 20)	50	100	M22x1,5x8	-	151,00
SK-AD . 050 . ER-NT . 32 . 130	50	ER 32 (2 - 20)	50	130	M22x1,5x8	-	180,00
SK-AD . 050 . ER-NT . 32 . 160	50	ER 32 (2 - 20)	50	160	M22x1,5x8	-	186,00
SK-AD . 050 . ER-NT . 32 . 200	50	ER 32 (2 - 20)	50	200	M22x1,5x8	-	218,00
SK-AD . 050 . ER-NT . 32 . 250	50	ER 32 (2 - 20)	50	250	M22x1,5x8	-	255,00
SK-AD . 050 . ER-NT . 40 . 080	50	ER 40 (3 - 26)	50	80	M 16	3	122,00
SK-AD . 050 . ER-NT . 40 . 120	50	ER 40 (3 - 26)	50	120	M 16	3,6	183,00
SK-AD . 050 . ER-NT . 40 . 160	50	ER 40 (3 - 30)	63	160	M27x1,5x8	-	194,00
SK-AD . 050 . ER-NT . 40 . 200	50	ER 40 (3 - 30)	63	200	M27x1,5x8	-	239,00

DIN
69871Form
AD/BG 6,3
15.000 rpm

art.	SK	ER		d2	l1		g	kg		€
SK-AD/B . 040 . ER-NT . 16 . 070	40	ER 16 (1 - 10)		32	70		M10x20	-		95,00
SK-AD/B . 040 . ER-NT . 16 . 100	40	ER 16 (1 - 10)		32	100		M10x20	-		103,00
SK-AD/B . 040 . ER-NT . 16 . 160	40	ER 16 (1 - 10)		32	160		M10x20	-		120,00
SK-AD/B . 040 . ER-NT . 20 . 070	40	ER 20 (1 - 13)		35	70		M12x30	-		109,00
SK-AD/B . 040 . ER-NT . 20 . 100	40	ER 20 (1 - 13)		35	100		M12x30	-		121,00
SK-AD/B . 040 . ER-NT . 20 . 160	40	ER 20 (1 - 13)		35	160		M12x30	-		143,00
SK-AD/B . 040 . ER-NT . 25 . 070	40	ER 25 (1 - 16)		32	70		M 16	1		84,00
SK-AD/B . 040 . ER-NT . 25 . 100	40	ER 25 (1 - 16)		32	100		M 16	1,1		107,00
SK-AD/B . 040 . ER-NT . 25 . 160	40	ER 25 (1 - 16)		42	160		M18x1,5x8	-		125,00
SK-AD/B . 040 . ER-NT . 25 . 200	40	ER 25 (1 - 16)		42	200		M18x1,5x8	-		141,00
SK-AD/B . 040 . ER-NT . 32 . 070	40	ER 32 (2 - 20)		40	70		M 16	1,0		87,00
SK-AD/B . 040 . ER-NT . 32 . 100	40	ER 32 (2 - 20)		40	100		M 16	1,3		107,00
SK-AD/B . 040 . ER-NT . 32 . 130	40	ER 32 (2 - 20)		50	130		M22x1,5x8	-		121,00
SK-AD/B . 040 . ER-NT . 32 . 160	40	ER 32 (2 - 20)		50	160		M22x1,5x8	-		128,00
SK-AD/B . 040 . ER-NT . 32 . 200	40	ER 32 (2 - 20)		50	200		M22x1,5x8	-		143,00
SK-AD/B . 040 . ER-NT . 40 . 080	40	ER 40 (3 - 26)		50	80		M 16	1,2		93,00
SK-AD/B . 040 . ER-NT . 40 . 120	40	ER 40 (3 - 26)		50	120		M 16	1,8		117,00
SK-AD/B . 040 . ER-NT . 40 . 130	40	ER 40 (3 - 30)		63	130		M27x1,5x8	-		129,00
SK-AD/B . 040 . ER-NT . 40 . 200	40	ER 40 (3 - 30)		63	200		M27x1,5x8	-		147,00
SK-AD/B . 050 . ER-NT . 25 . 70	50	ER 25 (1 - 16)		42	70		M18x1,5x8	-		130,00
SK-AD/B . 050 . ER-NT . 25 . 100	50	ER 25 (1 - 16)		42	100		M18x1,5x8	-		153,00
SK-AD/B . 050 . ER-NT . 25 . 160	50	ER 25 (1 - 16)		42	160		M18x1,5x8	-		188,00
SK-AD/B . 050 . ER-NT . 25 . 200	50	ER 25 (1 - 16)		42	200		M18x1,5x8	-		137,00
SK-AD/B . 050 . ER-NT . 32 . 070	50	ER 32 (2 - 20)		50	70		M22x1,5x8	-		127,00
SK-AD/B . 050 . ER-NT . 32 . 100	50	ER 32 (2 - 20)		50	100		M22x1,5x8	-		161,00
SK-AD/B . 050 . ER-NT . 32 . 130	50	ER 32 (2 - 20)		50	130		M22x1,5x8	-		186,00
SK-AD/B . 050 . ER-NT . 32 . 160	50	ER 32 (2 - 20)		50	160		M22x1,5x8	-		194,00
SK-AD/B . 050 . ER-NT . 32 . 200	50	ER 32 (2 - 20)		50	200		M22x1,5x8	-		253,00
SK-AD/B . 050 . ER-NT . 32 . 250	50	ER 32 (2 - 20)		50	250		M22x1,5x8	-		296,00
SK-AD/B . 050 . ER-NT . 40 . 080	50	ER 40 (3 - 26)		50	80		M 16	3		137,00
SK-AD/B . 050 . ER-NT . 40 . 120	50	ER 40 (3 - 26)		50	120		M 16	3,5		198,00
SK-AD/B . 050 . ER-NT . 40 . 160	50	ER 40 (3 - 30)		63	160		M27x1,5x8	-		200,00
SK-AD/B . 050 . ER-NT . 40 . 200	50	ER 40 (3 - 30)		63	200		M27x1,5x8	-		259,00

DIN
69871Form
AD/BG 6,3
12.000 rpm

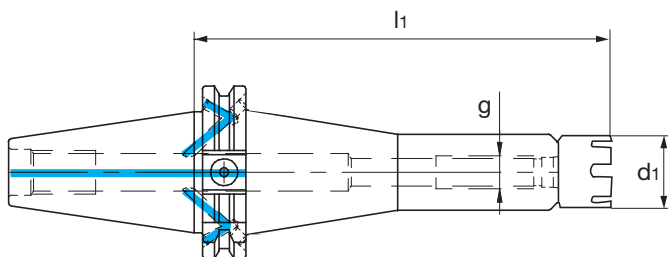
art.	SK	ER	d1	d2	d3	l1	l2		g		kg	€
SK-AD/B . 040 . ER-LT . 11 . 063	40	ER 11 (0.5 - 7)	19	18,5	-	63	-		M 6		0,9	84,00
SK-AD/B . 040 . ER-LT . 11 . 100	40	ER 11 (0.5 - 7)	19	18,5	-	100	-		M 6		1,0	95,00
SK-AD/B . 040 . ER-LT . 16 . 063	40	ER 16 (0.5 - 10)	28	28	-	63	-		M12		0,9	84,00
SK-AD/B . 040 . ER-LT . 16 . 100	40	ER 16 (0.5 - 10)	28	28	-	100	-		M12		1,1	95,00
SK-AD/B . 040 . ER-LT . 16 . 130	40	ER 16 (1 - 10)	28	-	-	130	-		M10x20		-	114,00
SK-AD/B . 040 . ER-LT . 16 . 160	40	ER 16 (0.5 - 10)	28	28	46	160	85		M 12		1,5	159,00
SK-AD/B . 040 . ER-LT . 20 . 100	40	ER 20 (1 - 13)	34	-	-	100	-		M12x30		-	121,00
SK-AD/B . 040 . ER-LT . 20 . 130	40	ER 20 (1 - 13)	34	-	-	130	-		M12x30		-	136,00
SK-AD/B . 050 . ER-LT . 16 . 100	50	ER 16 (0.5 - 10)	28	28	-	100	-		M12		2,9	159,00
SK-AD/B . 050 . ER-LT . 16 . 160	50	ER 16 (0.5 - 10)	28	28	78	160	85		M12		3,8	216,00
SK-AD/B . 050 . ER-LT . 20 . 100	50	ER 20 (1 - 13)	34	-	-	100	-		M12x30		-	172,00
SK-AD/B . 050 . ER-LT . 20 . 160	50	ER 20 (1 - 13)	34	-	-	160	-		M12x30		-	219,00

Accessories for ER Collets pag. 162 - Clamping keys for ER Clamping nuts pag. 180

Clamping nuts pag. 173 - Pull studs pag. 175

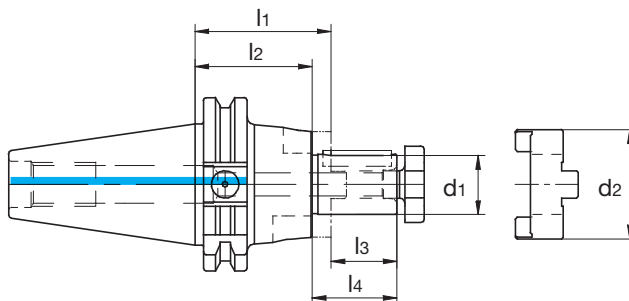
Accessori per Pinze ER pag. 162 - Chiave per ghiera pag. 180

Ghiera pag. 173 - Codoli pag. 175

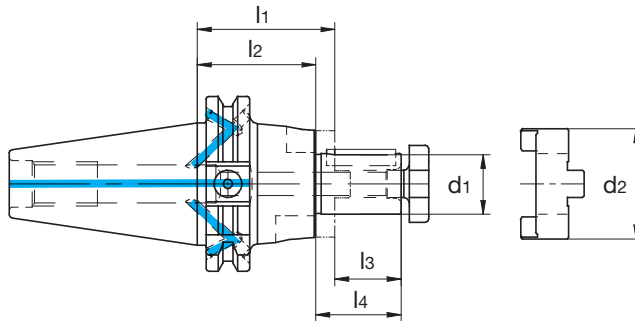


DIN 69871	Form AD/B			G 6,3 12.000 rpm
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art.	SK	ER	d1		l1				g				€
SK-AD/B. 040 .ER-MN. 11. 070	40	ER 11 (1 - 7)	16		70				M6x14				143,00
SK-AD/B. 040 .ER-MN. 11. 100	40	ER 11 (1 - 7)	16		100				M6x14				147,00
SK-AD/B. 040 .ER-MN. 16. 130	40	ER 16 (1 - 10)	22		130				M10x20				157,00
SK-AD/B. 040 .ER-MN. 16. 160	40	ER 16 (1 - 10)	22		160				M10x20				167,00
SK-AD/B. 040 .ER-MN. 20. 100	40	ER 20 (1 - 13)	28		100				M12x30				147,00
SK-AD/B. 040 .ER-MN. 20. 130	40	ER 20 (1 - 13)	28		130				M12x30				157,00
SK-AD/B. 050 .ER-MN. 20. 130	50	ER 20 (1 - 13)	28		130				M12x30				194,00
SK-AD/B. 050 .ER-MN. 20. 160	50	ER 20 (1 - 13)	28		160				M12x30				211,00
SK-AD/B. 050 .ER-MN. 25. 130	50	ER 25 (1 - 16)	35		130				M18x1,5x8				194,00
SK-AD/B. 050 .ER-MN. 25. 160	50	ER 25 (1 - 16)	35		160				M18x1,5x8				211,00

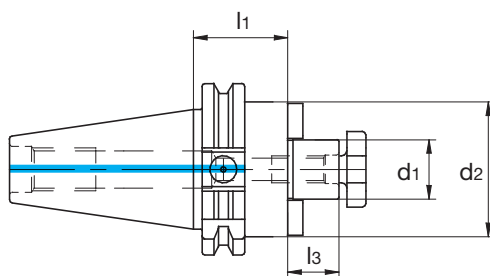
DIN
69871Form
ADG 6,3
8.000 rpm

art.	SK	d1	d2	l1	l2	l3	l4			kg		€
SK-AD . 040 . SM . 16 . 055	40	16	32	55	45	17	27			1,0		80,00
SK-AD . 040 . SM . 16 . 100	40	16	32	100	90	17	27			1,5		101,00
SK-AD . 040 . SM . 22 . 055	40	22	40	55	43	19	31			1,1		83,00
SK-AD . 040 . SM . 22 . 100	40	22	40	100	88	19	31			1,6		102,00
SK-AD . 040 . SM . 27 . 055	40	27	48	55	43	21	33			1,3		83,00
SK-AD . 040 . SM . 27 . 100	40	27	48	100	88	21	33			1,9		105,00
SK-AD . 040 . SM . 32 . 060	40	32	58	60	46	24	38			1,4		90,00
SK-AD . 040 . SM . 32 . 100	40	32	58	100	86	24	38			2,2		108,00
SK-AD . 040 . SM . 40 . 060	40	40	70	60	46	27	41			1,6		102,00
SK-AD . 050 . SM . 16 . 055	50	16	32	55	45	17	27			2,8		116,00
SK-AD . 050 . SM . 16 . 100	50	16	32	100	-	17	27			3,5		173,00
SK-AD . 050 . SM . 22 . 055	50	22	40	55	43	19	31			2,9		116,00
SK-AD . 050 . SM . 22 . 100	50	22	40	100	88	19	31			3,6		137,00
SK-AD . 050 . SM . 27 . 055	50	27	48	55	43	21	33			3,1		119,00
SK-AD . 050 . SM . 27 . 100	50	27	48	100	88	21	33			4,0		138,00
SK-AD . 050 . SM . 32 . 055	50	32	58	55	41	24	38			3,3		122,00
SK-AD . 050 . SM . 32 . 100	50	32	58	100	86	24	38			4,4		140,00
SK-AD . 050 . SM . 40 . 055	50	40	70	55	41	27	41			3,5		135,00
SK-AD . 050 . SM . 40 . 100	50	40	70	100	86	27	41			4,7		152,00
SK-AD . 050 . SM . 50 . 070	50	50	90	70	54	30	46			4,5		168,00

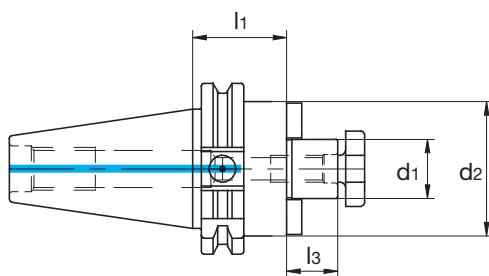


DIN 69871	Form AD/B			G 6,3 8.000 rpm
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art.			SK	d1	d2	l1	l2	l3	l4			kg			€
SK-AD/B . 040 . SM . 16 . 055	40	16	32	55	45	17	27					1,0			92,00
SK-AD/B . 040 . SM . 16 . 100	40	16	32	100	90	17	27					1,5			116,00
SK-AD/B . 040 . SM . 22 . 055	40	22	40	55	43	19	31					1,1			95,00
SK-AD/B . 040 . SM . 22 . 100	40	22	40	100	88	19	31					1,6			117,00
SK-AD/B . 040 . SM . 27 . 055	40	27	48	55	43	21	33					1,3			95,00
SK-AD/B . 040 . SM . 27 . 100	40	27	48	100	88	21	33					1,9			120,00
SK-AD/B . 040 . SM . 32 . 060	40	32	58	60	46	24	38					1,4			105,00
SK-AD/B . 040 . SM . 32 . 100	40	32	58	100	86	24	38					2,2			125,00
SK-AD/B . 040 . SM . 40 . 060	40	40	70	60	46	27	41					1,6			117,00
SK-AD/B . 050 . SM . 16 . 055	50	16	32	55	45	17	27					2,8			128,00
SK-AD/B . 050 . SM . 22 . 055	50	22	40	55	43	19	31					2,9			128,00
SK-AD/B . 050 . SM . 22 . 100	50	22	40	100	88	19	31					3,6			149,00
SK-AD/B . 050 . SM . 27 . 055	50	27	48	55	43	21	33					3,1			131,00
SK-AD/B . 050 . SM . 27 . 100	50	27	48	100	88	21	33					4,0			152,00
SK-AD/B . 050 . SM . 32 . 055	50	32	58	55	41	24	38					3,3			134,00
SK-AD/B . 050 . SM . 32 . 100	50	32	58	100	86	24	38					4,4			153,00
SK-AD/B . 050 . SM . 40 . 055	50	40	70	55	41	27	41					3,5			147,00
SK-AD/B . 050 . SM . 40 . 100	50	40	70	100	86	27	41					4,7			168,00
SK-AD/B . 050 . SM . 50 . 070	50	50	90	70	54	30	46					4,5			183,00

DIN
69871Form
ADG 6,3
8.000 rpm

art.	SK	d1	d2	l1		l3				kg		€
SK-AD . 040 . SM-E . 16 . 035	40	16	40	35		17				1,0		80,00
SK-AD . 040 . SM-E . 16 . 100	40	16	38	100		17				-		109,00
SK-AD . 040 . SM-E . 16 . 160	40	16	38	160		17				-		188,00
SK-AD . 040 . SM-E . 16 . 200	40	16	38	200		17				-		235,00
SK-AD . 040 . SM-E . 22 . 035	40	22	50	35		19				1,1		80,00
SK-AD . 040 . SM-E . 22 . 100	40	22	46	100		19				-		109,00
SK-AD . 040 . SM-E . 22 . 160	40	22	46	160		19				-		188,00
SK-AD . 040 . SM-E . 22 . 200	40	22	46	200		19				-		235,00
SK-AD . 040 . SM-E . 27 . 035	40	27	50	35		21				1,1		83,00
SK-AD . 040 . SM-E . 27 . 100	40	27	48	100		21				-		149,00
SK-AD . 040 . SM-E . 27 . 160	40	27	48	160		21				-		200,00
SK-AD . 040 . SM-E . 27 . 200	40	27	48	200		21				-		262,00
SK-AD . 040 . SM-E . 32 . 050	40	32	80	50		24				1,7		86,00
SK-AD . 040 . SM-E . 32 . 100	40	32	58	100		24				-		157,00
SK-AD . 040 . SM-E . 32 . 160	40	32	58	160		24				-		209,00
SK-AD . 040 . SM-E . 40 . 050	40	40	89	50		27				1,9		105,00
SK-AD . 040 . SM-E . 40 . 100	40	40	70	100		27				-		166,00
SK-AD . 040 . SM-E . 40 . 160	40	40	70	160		27				-		218,00



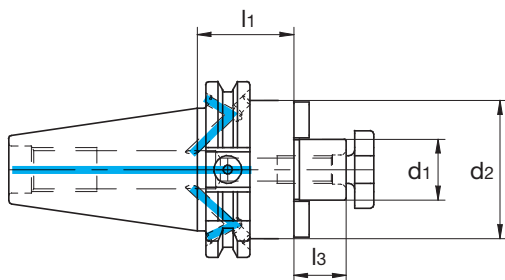
DIN
69871

Form
AD

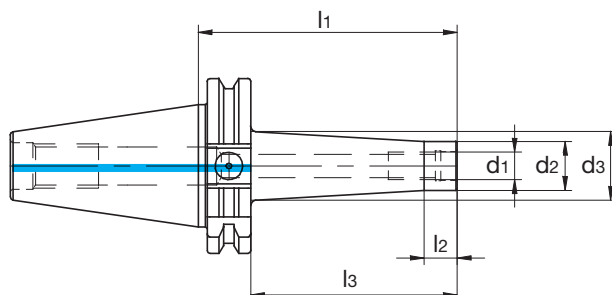


G 6,3
8.000 rpm

art.	SK	d1	d2	l1		l3				kg		€
SK-AD . 050 . SM-E . 16 . 045	50	16	38	45		17				-		131,00
SK-AD . 050 . SM-E . 16 . 100	50	16	38	100		17				-		165,00
SK-AD . 050 . SM-E . 16 . 160	50	16	38	160		17				-		218,00
SK-AD . 050 . SM-E . 16 . 200	50	16	38	200		17				-		262,00
SK-AD . 050 . SM-E . 22 . 035	50	22	50	35		19				2,9		105,00
SK-AD . 050 . SM-E . 22 . 100	50	22	46	100		19				-		165,00
SK-AD . 050 . SM-E . 22 . 160	50	22	46	160		19				-		218,00
SK-AD . 050 . SM-E . 22 . 200	50	22	46	200		19				-		262,00
SK-AD . 050 . SM-E . 22 . 250	50	22	46	250		19				-		284,00
SK-AD . 050 . SM-E . 22 . 300	50	22	46	300		19				-		389,00
SK-AD . 050 . SM-E . 27 . 040	50	27	60	40		21				3,1		105,00
SK-AD . 050 . SM-E . 27 . 100	50	27	55	100		21				-		169,00
SK-AD . 050 . SM-E . 27 . 160	50	27	55	160		21				-		224,00
SK-AD . 050 . SM-E . 27 . 200	50	27	55	200		21				-		270,00
SK-AD . 050 . SM-E . 27 . 250	50	27	55	250		21				-		292,00
SK-AD . 050 . SM-E . 27 . 300	50	27	55	300		21				-		374,00
SK-AD . 050 . SM-E . 32 . 050	50	32	80	50		24				3,9		113,00
SK-AD . 050 . SM-E . 32 . 100	50	32	78	100		24				-		197,00
SK-AD . 050 . SM-E . 32 . 160	50	32	66	160		24				-		262,00
SK-AD . 050 . SM-E . 32 . 200	50	32	66	200		24				-		306,00
SK-AD . 050 . SM-E . 32 . 250	50	32	66	250		24				-		328,00
SK-AD . 050 . SM-E . 32 . 300	50	32	66	300		24				-		410,00
SK-AD . 050 . SM-E . 40 . 050	50	40	90	50		27				4,0		128,00
SK-AD . 050 . SM-E . 40 . 100	50	40	70	100		27				-		205,00
SK-AD . 050 . SM-E . 40 . 160	50	40	70	160		27				-		282,00
SK-AD . 050 . SM-E . 40 . 200	50	40	70	200		27				-		326,00
SK-AD . 050 . SM-E . 50 . 050	50	50	120	50		30				4,7		167,00

DIN
69871Form
AD/BG 6,3
8.000 rpm

art.	SK	d1	d2	l1	l3	kg	€
SK-AD/B . 040 . SM-E . 16 . 035	40	16	40	35	17	1,0	87,00
SK-AD/B . 040 . SM-E . 22 . 035	40	22	50	35	19	1,1	87,00
SK-AD/B . 040 . SM-E . 22 . 100	40	22	40	100	19	-	143,00
SK-AD/B . 040 . SM-E . 27 . 035	40	27	50	35	21	1,1	90,00
SK-AD/B . 040 . SM-E . 27 . 100	40	27	48	100	21	-	149,00
SK-AD/B . 040 . SM-E . 32 . 050	40	32	80	50	24	1,7	95,00
SK-AD/B . 040 . SM-E . 40 . 050	40	40	89	50	27	1,9	116,00
SK-AD/B . 050 . SM-E . 16 . 045	50	16	38	45	17	-	173,00
SK-AD/B . 050 . SM-E . 16 . 100	50	16	32	100	17	-	202,00
SK-AD/B . 050 . SM-E . 16 . 200	50	16	38	200	17	-	277,00
SK-AD/B . 050 . SM-E . 22 . 035	50	22	50	35	19	2,9	116,00
SK-AD/B . 050 . SM-E . 22 . 100	50	22	40	100	19	-	201,00
SK-AD/B . 050 . SM-E . 22 . 160	50	22	46	160	19	-	218,00
SK-AD/B . 050 . SM-E . 22 . 200	50	22	46	200	19	-	277,00
SK-AD/B . 050 . SM-E . 22 . 250	50	22	46	250	19	-	264,00
SK-AD/B . 050 . SM-E . 22 . 300	50	22	46	300	19	-	325,00
SK-AD/B . 050 . SM-E . 27 . 040	50	27	60	40	21	3,1	116,00
SK-AD/B . 050 . SM-E . 27 . 100	50	27	48	100	21	-	208,00
SK-AD/B . 050 . SM-E . 27 . 160	50	27	55	160	21	-	224,00
SK-AD/B . 050 . SM-E . 27 . 200	50	27	55	200	21	-	277,00
SK-AD/B . 050 . SM-E . 27 . 250	50	27	55	250	21	-	266,00
SK-AD/B . 050 . SM-E . 27 . 300	50	27	55	300	21	-	327,00
SK-AD/B . 050 . SM-E . 32 . 050	50	32	80	50	24	3,8	123,00
SK-AD/B . 050 . SM-E . 32 . 100	50	32	58	100	24	-	241,00
SK-AD/B . 050 . SM-E . 32 . 160	50	32	66	160	24	-	262,00
SK-AD/B . 050 . SM-E . 32 . 200	50	32	66	200	24	-	285,00
SK-AD/B . 050 . SM-E . 32 . 250	50	32	66	250	24	-	283,00
SK-AD/B . 050 . SM-E . 32 . 300	50	32	66	300	24	-	342,00
SK-AD/B . 050 . SM-E . 40 . 050	50	40	89	50	27	4,0	141,00
SK-AD/B . 050 . SM-E . 40 . 100	50	40	70	100	27	-	250,00
SK-AD/B . 050 . SM-E . 40 . 160	50	40	70	160	27	-	282,00
SK-AD/B . 050 . SM-E . 40 . 200	50	40	70	200	27	-	374,00
SK-AD/B . 050 . SM-E . 50 . 050	50	50	120	50	30	4,7	240,00



DIN
69871

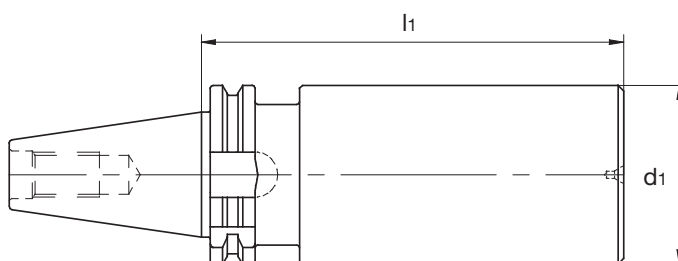
Form
AD



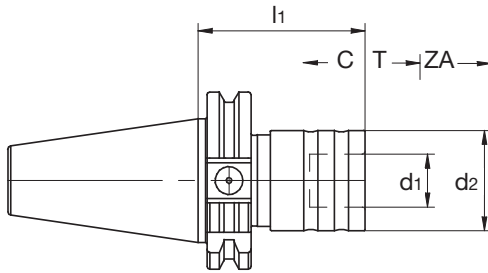
G 2,5
20.000 rpm

art.	SK	d1	d2	d3	l1	l2	l3			kg		€
SK-AD . 040 . SI . 08 . 044	40	M 8	12.8	15	44	12	25			0,9		156,00
SK-AD . 040 . SI . 08 . 069	40	M 8	12.8	23	69	12	50			0,9		179,00
SK-AD . 040 . SI . 08 . 094	40	M 8	12.8	23	94	12	75			1,0		200,00
SK-AD . 040 . SI . 10 . 044	40	M10	17.8	20	44	12	25			0,9		156,00
SK-AD . 040 . SI . 10 . 069	40	M10	17.8	25	69	12	50			1,0		170,00
SK-AD . 040 . SI . 10 . 094	40	M10	17.8	25	94	12	75			1,0		214,00
SK-AD . 040 . SI . 10 . 119	40	M10	17.8	32	119	12	100			1,2		229,00
SK-AD . 040 . SI . 10 . 169	40	M10	17.8	35	169	12	150			1,4		277,00
SK-AD . 040 . SI . 12 . 044	40	M12	20.8	24	44	12	25			0,9		156,00
SK-AD . 040 . SI . 12 . 069	40	M12	20.8	28	69	12	50			1,0		170,00
SK-AD . 040 . SI . 12 . 094	40	M12	20.8	31	94	12	75			1,1		200,00
SK-AD . 040 . SI . 12 . 119	40	M12	20.8	33	119	12	100			1,2		229,00
SK-AD . 040 . SI . 12 . 169	40	M12	20.8	40	169	12	150			1,6		277,00
SK-AD . 040 . SI . 16 . 044	40	M16	28.8	-	44	-	25			0,9		164,00
SK-AD . 040 . SI . 16 . 069	40	M16	28.8	34	69	12	50			1,1		183,00
SK-AD . 040 . SI . 16 . 094	40	M16	28.8	34	94	12	75			1,2		202,00
SK-AD . 040 . SI . 16 . 119	40	M16	28.8	36	119	12	100			1,3		229,00
SK-AD . 040 . SI . 16 . 169	40	M16	28.8	42	169	12	150			1,8		277,00

SK-AD . 050 . SI . 08 . 069	50	M 8	12.8	23	69	12	50			2,7		216,00
SK-AD . 050 . SI . 10 . 069	50	M10	17.8	25	69	12	50			2,8		216,00
SK-AD . 050 . SI . 10 . 094	50	M10	17.8	25	94	12	75			2,8		250,00
SK-AD . 050 . SI . 10 . 119	50	M10	17.8	32	119	12	100			2,8		269,00
SK-AD . 050 . SI . 10 . 169	50	M10	17.8	35	169	12	150			3,2		313,00
SK-AD . 050 . SI . 12 . 069	50	M12	20.8	28	69	12	50			2,8		216,00
SK-AD . 050 . SI . 12 . 094	50	M12	20.8	31	94	12	75			2,8		250,00
SK-AD . 050 . SI . 12 . 119	50	M12	20.8	33	119	12	100			2,8		269,00
SK-AD . 050 . SI . 12 . 169	50	M12	20.8	40	169	12	150			3,3		313,00
SK-AD . 050 . SI . 16 . 069	50	M16	28.8	34	69	12	50			2,8		216,00
SK-AD . 050 . SI . 16 . 094	50	M16	28.8	34	94	12	75			2,9		250,00
SK-AD . 050 . SI . 16 . 119	50	M16	28.8	36	119	12	100			2,8		269,00
SK-AD . 050 . SI . 16 . 169	50	M16	28.8	42	169	12	150			3,5		313,00

DIN
69871

art.	SK	d1			l1					kg		€
SK-A .040 . TB .40 . 160	40	40			160					-		135,00
SK-A .040 . TB .50 . 200	40	50			200					-		135,00
SK-A .040 . TB .63 . 250	40	63			250					6,3		111,00
SK-A .050 . TB .40 . 160	50	40			160					-		243,00
SK-A .050 . TB .50 . 250	50	50			250					-		245,00
SK-A .050 . TB .63 . 260	50	63			315					9,5		200,00
SK-A .050 . TB .80 . 300	50	80			300					-		251,00



DIN
69871



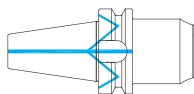
art.	SK	M	d1	d2	l1	C	T	ZA	kg		€
SK-A . 040 . TH . 01 . 060	40	M 3 - M14	19	36	60	5	8	2.1	0,8		458,00
SK-A . 040 . TH . 03 . 098	40	M 4.5 - M24	31	53	98	8.5	15	2.8	1,8		487,00
SK-A . 050 . TH . 01 . 060	50	M 3 - M14	19	36	60	5	8	2.1	2,6		584,00
SK-A . 050 . TH . 03 . 098	50	M 4.5 - M24	31	53	98	8.5	15	2.8	3,6		609,00

Lenght compensation on Compression and Tension

Compensazione assiale in Compressione ed in Trazione



HYF

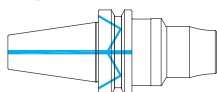


Milling hydraulic chuck
Mandrino idraulico per fresatura

JIS B6339	Form AD/B				G 2,5 25.000 rpm
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40

HYF-S

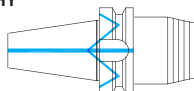


Milling hydraulic chuck - reduced
Mandrino idraulico per fresatura - scaricato

JIS B6339	Form AD/B				G 2,5 25.000 rpm
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41

HY

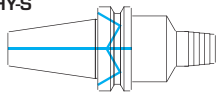


Hydraulic chuck
Mandrino idraulico

JIS B6339	Form AD/B				G 2,5 25.000 rpm
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42

HYS

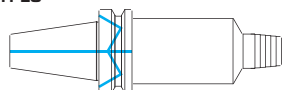


Hydraulic chuck - reduced
Mandrino idraulico - scaricato

JIS B6339	Form AD/B				G 2,5 25.000 rpm
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43

HY-LS

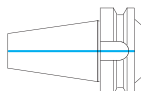


Hydraulic chuck - reduced long
Mandrino idraulico - scaricato lungo

JIS B6339	Form AD/B				G 2,5 25.000 rpm
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44

HY-EK

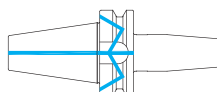


Hydraulic chuck - extra short
Mandrino idraulico - extra corto

JIS B6339	Form AD				G 2,5 25.000 rpm
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45

SF 30

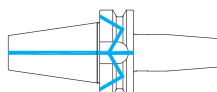


Shrink fit chuck
Mandrino calettamento a caldo

JIS B6339	Form AD				G 2,5 25.000 rpm
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46

SF 40



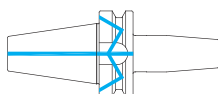
Shrink fit chuck
Mandrino a calettamento a caldo

JIS B6339	Form AD/B				G 2,5 25.000 rpm
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47



SF-S 50



Shrink fit chuck
Mandrino a calettamento a caldo

JIS
B6339

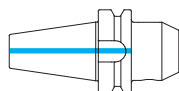
Form
AD/B



G 2,5
25.000 rpm

48

W 30



Weldon chuck
Mandrino Weldon

JIS
B6339

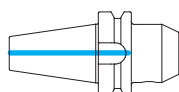
Form
AD



G 6,3
15.000 rpm

49

W 40



Weldon chuck
Mandrino Weldon

JIS
B6339

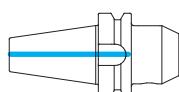
Form
AD



G 6,3
15.000 rpm

50

W 50



Weldon chuck
Mandrino Weldon

JIS
B6339

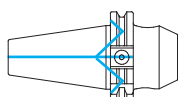
Form
AD



G 6,3
15.000 rpm

51

W 40 AD/B



Weldon chuck
Mandrino Weldon

JIS
B6339

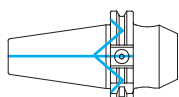
Form
AD/B



G 6,3
15.000 rpm

52

W 50 AD/B



Weldon chuck
Mandrino Weldon

JIS
B6339

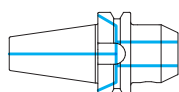
Form
AD/B



G 6,3
15.000 rpm

53

W-AF



Weldon chuck with front coolant
Mandrino Weldon con refrigerante frontale

JIS
B6339

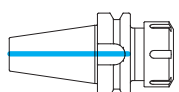
Form
AF



G 6,3
15.000 rpm

54

ER-NT



ER chuck with thread
Portapinze ER con filetto

JIS
B6339

Form
AD

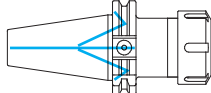


G 6,3
15.000 rpm

55



ER-NT AD/B

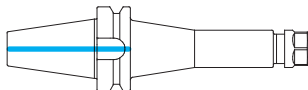


ER chuck with thread
Portapinzze ER con filetto

JIS B6339	Form AD/B				G 6,3 15.000 rpm
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56

ER-LT

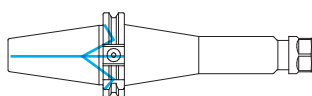


ER chuck with thread - long
Portapinzze ER con filetto - lungo

JIS B6339	Form AD				G 6,3 15.000 rpm
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57

ER-LT AD/B

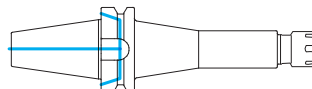


ER chuck with thread - long
Portapinzze ER con filetto - lungo

JIS B6339	Form AD/B				G 6,3 15.000 rpm
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58

ER-MN

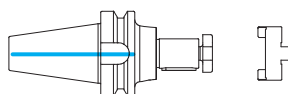


ER chuck mini nut with internal thread
Portapinzze ER mini con filetto interno

DIN 69871	Form AD/B				G6,3 15.000 min ⁻¹
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59

SM

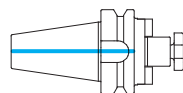


Shell end mill holder
Portafrese a manicotto

JIS B6339	Form AD				G 6,3 15.000 rpm
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60

SM-E

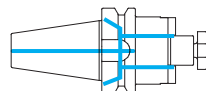


Shell end mill holder - enlarged
Portafrese a manicotto - maggiorato

JIS B6339	Form AD				G 6,3 15.000 rpm
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61

SM-E AF

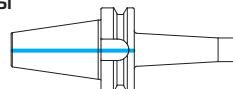


Shell end mill holder - enlarged
Portafrese a manicotto - maggiorato

JIS B6339	Form AF				G 6,3 15.000 rpm
--------------	------------	--	--	--	---------------------

62

SI



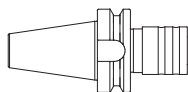
Screw-In milling cutters holder
Portatestine con filetto interno

JIS B6339	Form AD				G 2,5 20.000 rpm
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63



TH

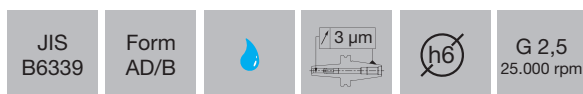


Tapping chuck
Mandrino maschiatore

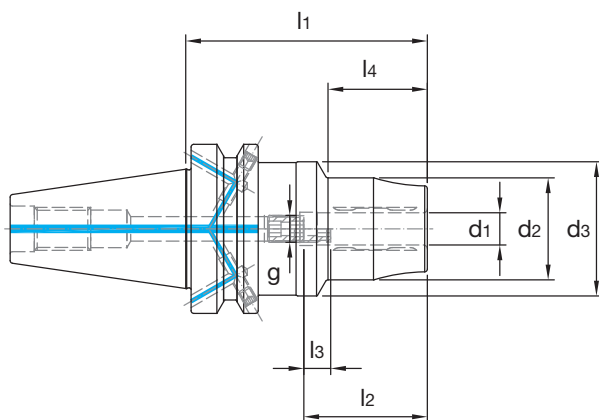
JIS
B6339



64



art.	BT	d1	d2	l1	l2	l3				g	kg			€
BT - AD/B . 040 . HYF . 06 . 072	40	20	49	72,5	51	10				M16x1	1,4			309,00
BT - AD/B . 050 . HYF . 20 . 083	50	20	49	83,5	51	10				M16x1	4			349,00
BT - AD/B . 050 . HYF . 32 . 090	50	32	72	90	61	10				M16x1	4,6			349,00

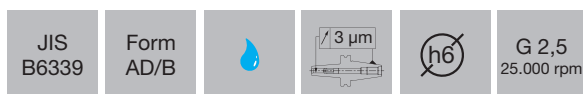


JIS
B6339

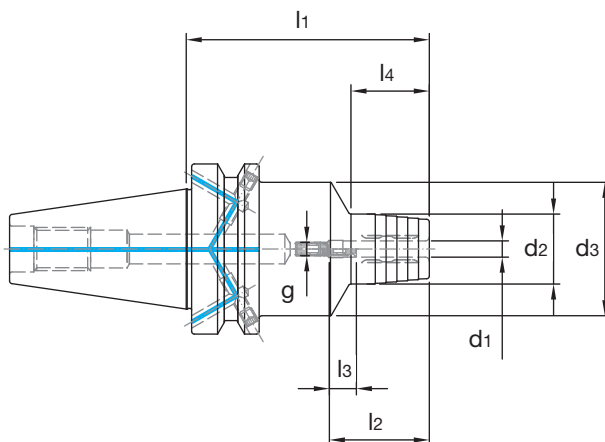
Form
AD/B

G 2,5
25.000 rpm

art.	BT	d1	d2	d3	l1	l2	l3	l4	g	kg			€
BT - AD/B . 040 . HYF-S . 06 . 080	40	6	32	50	80	37	10	26	M 5	1,6			584,00
BT - AD/B . 040 . HYF-S . 08 . 080	40	8	34	50	80	37	10	27	M 6	1,6			584,00
BT - AD/B . 040 . HYF-S . 10 . 085	40	10	36	50	85	41	10	32	M 8x1	1,6			584,00
BT - AD/B . 040 . HYF-S . 12 . 090	40	12	38	50	90	46	10	37	M10x1	1,7			526,00
BT - AD/B . 040 . HYF-S . 14 . 090	40	14	40	50	90	46	10	37	M10x1	1,8			584,00
BT - AD/B . 040 . HYF-S . 16 . 095	40	16	42	50	95	49	10	42	M12x1	1,8			584,00
BT - AD/B . 040 . HYF-S . 18 . 095	40	18	44	50	95	49	10	42	M12x1	1,9			584,00
BT - AD/B . 040 . HYF-S . 20 . 100	40	20	48	50	100	51	10	45	M16x1	1,9			526,00
BT - AD/B . 040 . HYF-S . 25 . 110	40	25	57	50	110	57	10	60	M16x1	2,4			584,00
BT - AD/B . 040 . HYF-S . 32 . 120	40	32	63	50	120	61	10	65	M16x1	2,7			584,00



art.		BT	d1	d2		l1	l2	l3		g	kg			€
BT - AD/B . 040 . HY . 20 . 072		40	20	49,5		72,5	51	10		M16x1	1,5			269,00
BT - AD/B . 050 . HY . 32 . 090		50	32	72		90	61	10		M16x1	4,7			303,00



JIS
B6339

Form
AD

Form
AD/B

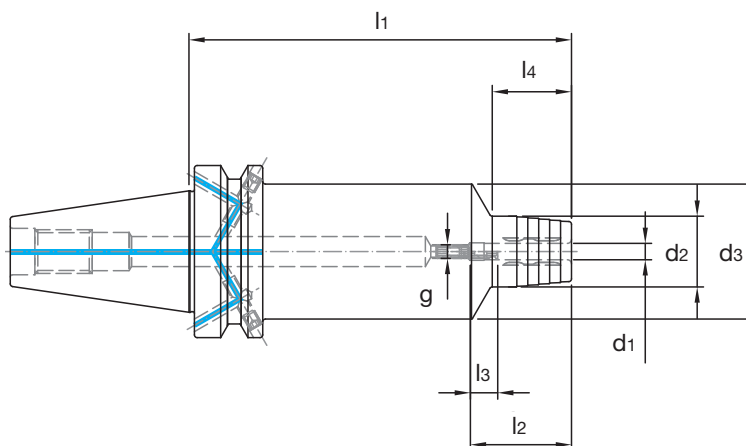


G 2,5
25.000 rpm

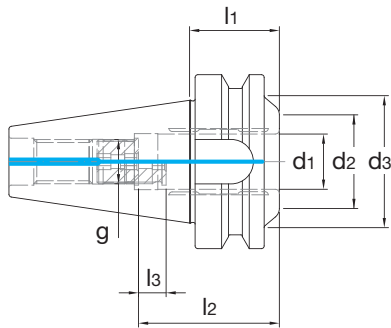
art.	BT	d1	d2	d3	l1	l2	l3	l4	g	kg		€
BT - AD . 030 . HY-S . 06 . 050	30	6	26	45	50,8	37	10	12,0	M 5	0,7		499,00
BT - AD . 030 . HY-S . 08 . 050	30	8	28	45	50,8	37	10	12,5	M 6	0,7		499,00
BT - AD . 030 . HY-S . 10 . 050	30	10	30	45	50,8	41	10	13,0	M 8x1	0,7		499,00
BT - AD . 030 . HY-S . 12 . 050	30	12	32	45	50,8	46	10	14,0	M 8x1	0,7		499,00
BT - AD . 030 . HY-S . 14 . 090	30	14	34	45	90	46	10	45,0	M 8x1	1		499,00
BT - AD . 030 . HY-S . 16 . 090	30	16	38	45	90	49	10	50,0	M 8x1	1		499,00
BT - AD . 030 . HY-S . 18 . 090	30	18	40	45	90	49	10	50,0	M 8x1	1		499,00
BT - AD . 030 . HY-S . 20 . 090	30	20	42	45	90	51	10	50,0	M 8x1	1		499,00

BT - AD/B . 040 . HY-S . 06 . 090	40	6	26	49,5	90	37	10	29	M 5	1,5		509,00
BT - AD/B . 040 . HY-S . 08 . 090	40	8	28	49,5	90	37	10	30	M 6	1,6		509,00
BT - AD/B . 040 . HY-S . 10 . 090	40	10	30	49,5	90	41	10	35	M 8x1	1,6		509,00
BT - AD/B . 040 . HY-S . 12 . 090	40	12	32	49,5	90	46	10	40	M10x1	1,6		450,00
BT - AD/B . 040 . HY-S . 14 . 090	40	14	34	49,5	90	46	10	40	M10x1	1,6		509,00
BT - AD/B . 040 . HY-S . 16 . 090	40	16	38	49,5	90	49	10	45	M12x1	1,6		509,00
BT - AD/B . 040 . HY-S . 18 . 090	40	18	40	49,5	90	49	10	46	M12x1	1,6		509,00
BT - AD/B . 040 . HY-S . 20 . 090	40	20	42	49,5	90	51	10	47	M16x1	1,6		450,00
BT - AD/B . 040 . HY-S . 25 . 090	40	25	55	52	90	57	10	50	M16x1	1,9		509,00
BT - AD/B . 040 . HY-S . 32 . 090	40	32	63	59	90	61	10	48	M16x1	2,1		509,00

BT - AD/B . 050 . HY-S . 06 . 090	50	6	26	49,5	90	37	10	29	M 5	4,2		706,00
BT - AD/B . 050 . HY-S . 08 . 090	50	8	28	49,5	90	37	10	30	M 6	4,2		706,00
BT - AD/B . 050 . HY-S . 10 . 090	50	10	30	49,5	90	41	10	34	M 8x1	4,2		706,00
BT - AD/B . 050 . HY-S . 12 . 090	50	12	32	49,5	90	46	10	34	M10x1	4,2		641,00
BT - AD/B . 050 . HY-S . 14 . 090	50	14	34	49,5	90	46	10	34	M10x1	4,2		706,00
BT - AD/B . 050 . HY-S . 16 . 090	50	16	38	49,5	90	49	10	35	M12x1	4,2		706,00
BT - AD/B . 050 . HY-S . 18 . 090	50	18	40	49,5	90	49	10	35	M12x1	4,2		706,00
BT - AD/B . 050 . HY-S . 20 . 090	50	20	42	49,5	90	51	10	35	M16x1	4,2		641,00
BT - AD/B . 050 . HY-S . 25 . 090	50	25	55	63	110	57	10	48	M16x1	4,6		706,00
BT - AD/B . 050 . HY-S . 32 . 090	50	32	63	70	110	61	10	50	M16x1	5		706,00

JIS
B6339Form
AD/BG 2,5
25.000 rpm

art.	BT	d1	d2	d3	l1	l2	l3	l4	g	kg		€
BT - AD/B . 040 . HYS . 06 . 090	40	6	26	49,5	90	37	10	29	M 5	1,5		757,00
BT - AD/B . 040 . HYS . 08 . 090	40	8	28	49,5	90	37	10	30	M 6	1,6		757,00
BT - AD/B . 040 . HYS . 10 . 090	40	10	30	49,5	90	41	10	35	M 8x1	1,6		757,00
BT - AD/B . 040 . HYS . 12 . 090	40	12	32	49,5	90	46	10	40	M10x1	1,6		623,00
BT - AD/B . 040 . HYS . 14 . 090	40	14	34	49,5	90	46	10	40	M10x1	1,6		757,00
BT - AD/B . 040 . HYS . 16 . 090	40	16	38	49,5	90	49	10	45	M12x1	1,6		757,00
BT - AD/B . 040 . HYS . 18 . 090	40	18	40	49,5	90	49	10	46	M12x1	1,6		757,00
BT - AD/B . 040 . HYS . 20 . 090	40	20	42	49,5	90	51	10	47	M16x1	1,6		623,00
BT - AD/B . 040 . HYS . 25 . 090	40	25	55	52	90	57	10	50	M16x1	1,9		757,00
BT - AD/B . 040 . HYS . 32 . 090	40	32	63	59	90	61	10	48	M16x1	2,1		757,00
BT - AD/B . 050 . HYS . 06 . 090	50	6	26	49,5	90	37	10	29	M 5	4,2		913,00
BT - AD/B . 050 . HYS . 08 . 090	50	8	28	49,5	90	37	10	30	M 6	4,2		913,00
BT - AD/B . 050 . HYS . 10 . 090	50	10	30	49,5	90	41	10	34	M 8x1	4,2		913,00
BT - AD/B . 050 . HYS . 12 . 090	50	12	32	49,5	90	46	10	34	M10x1	4,2		811,00
BT - AD/B . 050 . HYS . 14 . 090	50	14	34	49,5	90	46	10	34	M10x1	4,2		913,00
BT - AD/B . 050 . HYS . 16 . 090	50	16	38	49,5	90	49	10	35	M12x1	4,2		913,00
BT - AD/B . 050 . HYS . 18 . 090	50	18	40	49,5	90	49	10	35	M12x1	4,2		913,00
BT - AD/B . 050 . HYS . 20 . 090	50	20	42	49,5	90	51	10	35	M16x1	4,2		811,00
BT - AD/B . 050 . HYS . 25 . 090	50	25	55	63	110	57	10	48	M16x1	4,6		913,00
BT - AD/B . 050 . HYS . 32 . 090	50	32	63	70	110	61	10	50	M16x1	5		811,00

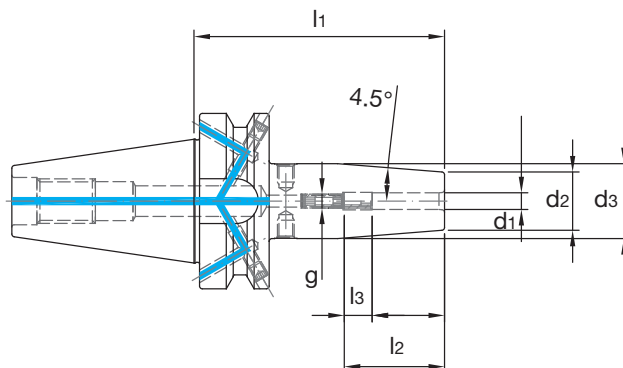


JIS
B6339

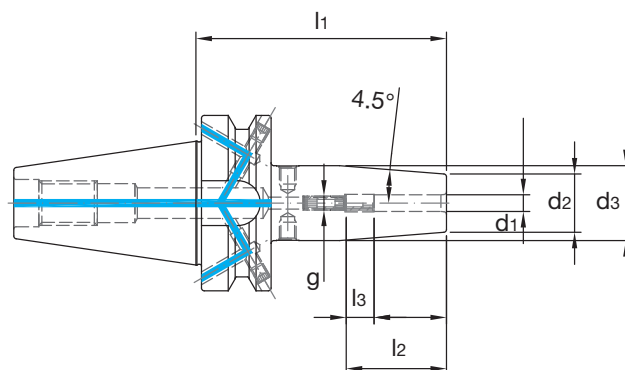
Form
AD

G 2,5
25.000 rpm

art.	BT	d1	d2	d3	l1	l2	l3		g	kg			€
BT - AD . 040 . HY-EK . 20 . 032	40	20	34	48	32,5	51	10		M16x1	0,7			393,00

JIS
B6339Form
ADG 2,5
25.000 rpm

art.	BT	d1	d2	d3	l1	l2	l3		g	kg	Form screw	€
BT-AD .030 . SF .03 . 085	30	3	10	17	85	28	16		M6	0,7	A	187,00
BT-AD .030 . SF .04 . 085	30	4	15	22	85	28	12		M6	0,7	A	187,00
BT-AD .030 . SF .05 . 085	30	5	15	22	85	30	10		M6	0,7	A	187,00
BT-AD .030 . SF .06 . 085	30	6	21	27	85	36	10		M5	0,8	A	156,00
BT-AD .030 . SF .08 . 085	30	8	21	27	85	36	10		M6	0,8	A	156,00
BT-AD .030 . SF .10 . 085	30	10	24	32	85	41	10		M8x1	0,8	A	156,00
BT-AD .030 . SF .12 . 085	30	12	24	32	85	47	10		M10x1	0,9	A	156,00
BT-AD .030 . SF .14 . 085	30	14	27	34	85	47	10		M10x1	0,9	A	156,00
BT-AD .030 . SF .16 . 085	30	16	27	34	85	50	10		M12x1	0,9	A	156,00
BT-AD .030 . SF .18 . 085	30	18	33	42	85	50	10		M12x1	1,0	A	156,00
BT-AD .030 . SF .20 . 085	30	20	33	42	85	52	10		M16x1	1,0	A	156,00



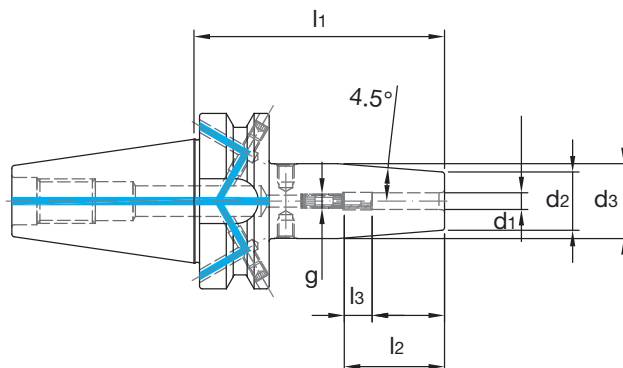
JIS
B6339

Form
AD/B

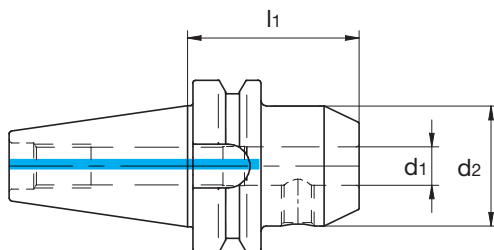


G 2,5
25.000 rpm

art.	BT	d1	d2	d3	l1	l2	l3		g	kg	Form screw		€
BT-AD/B . 040 . SF . 03 . 090	40	3	10	17	90	28	16		M6	1,1	A		202,00
BT-AD/B . 040 . SF . 03 . 120	40	3	10	20	120	-	-		-	1,2	A		239,00
BT-AD/B . 040 . SF . 03 . 160	40	3	10	20	160	-	-		-	1,4	A		269,00
BT-AD/B . 040 . SF . 04 . 090	40	4	15	22	90	28	12		M6	1,1	A		195,00
BT-AD/B . 040 . SF . 04 . 120	40	4	15	22	120	-	-		-	1,3	A		232,00
BT-AD/B . 040 . SF . 04 . 160	40	4	15	22	160	-	-		-	1,5	A		263,00
BT-AD/B . 040 . SF . 05 . 090	40	5	15	22	90	30	10		M6	1,1	A		195,00
BT-AD/B . 040 . SF . 05 . 120	40	5	15	22	120	-	-		-	1,3	A		232,00
BT-AD/B . 040 . SF . 05 . 160	40	5	15	22	160	-	-		-	1,5	A		263,00
BT-AD/B . 040 . SF . 06 . 090	40	6	21	27	90	36	10		M5	1,2	A		164,00
BT-AD/B . 040 . SF . 06 . 120	40	6	21	27	120	36	10		M5	1,3	A		194,00
BT-AD/B . 040 . SF . 06 . 160	40	6	21	27	160	36	10		M5	1,7	A		216,00
BT-AD/B . 040 . SF . 08 . 090	40	8	21	27	90	36	10		M6	1,2	A		164,00
BT-AD/B . 040 . SF . 08 . 120	40	8	21	27	120	36	10		M6	1,3	A		194,00
BT-AD/B . 040 . SF . 08 . 160	40	8	21	27	160	36	10		M6	1,7	A		216,00
BT-AD/B . 040 . SF . 10 . 090	40	10	24	32	90	41	10		M8x1	1,3	A		164,00
BT-AD/B . 040 . SF . 10 . 120	40	10	24	32	120	41	10		M8x1	1,4	A		194,00
BT-AD/B . 040 . SF . 10 . 160	40	10	24	32	160	41	10		M8x1	1,7	A		216,00
BT-AD/B . 040 . SF . 12 . 090	40	12	24	32	90	47	10		M10x1	1,3	A		164,00
BT-AD/B . 040 . SF . 12 . 120	40	12	24	32	120	47	10		M10x1	1,6	A		194,00
BT-AD/B . 040 . SF . 12 . 160	40	12	24	32	160	47	10		M10x1	1,7	A		216,00
BT-AD/B . 040 . SF . 14 . 090	40	14	27	34	90	47	10		M10x1	1,3	A		164,00
BT-AD/B . 040 . SF . 14 . 120	40	14	27	34	120	47	10		M10x1	1,4	A		194,00
BT-AD/B . 040 . SF . 14 . 160	40	14	27	34	160	47	10		M10x1	1,8	A		216,00
BT-AD/B . 040 . SF . 16 . 090	40	16	27	34	90	50	10		M12x1	1,3	A		164,00
BT-AD/B . 040 . SF . 16 . 120	40	16	27	34	120	50	10		M12x1	1,4	A		194,00
BT-AD/B . 040 . SF . 16 . 160	40	16	27	34	160	50	10		M12x1	1,8	A		216,00
BT-AD/B . 040 . SF . 18 . 090	40	18	33	42	90	50	10		M12x1	1,4	A		164,00
BT-AD/B . 040 . SF . 18 . 120	40	18	33	42	120	50	10		M12x1	1,6	A		194,00
BT-AD/B . 040 . SF . 18 . 160	40	18	33	42	160	50	10		M12x1	2,2	A		216,00
BT-AD/B . 040 . SF . 20 . 090	40	20	33	42	90	52	10		M16x1	1,4	A		164,00
BT-AD/B . 040 . SF . 20 . 120	40	20	33	42	120	52	10		M16x1	1,6	A		194,00
BT-AD/B . 040 . SF . 20 . 160	40	20	33	42	160	52	10		M16x1	2,1	A		216,00
BT-AD/B . 040 . SF . 25 . 100	40	25	44	53	100	58	10		M16x1	1,8	A		164,00
BT-AD/B . 040 . SF . 25 . 120	40	25	44	53	120	58	10		M16x1	2	A		194,00
BT-AD/B . 040 . SF . 25 . 160	40	25	44	53	160	58	10		M16x1	2,7	A		216,00
BT-AD/B . 040 . SF . 32 . 100	40	32	44	53	100	62	10		M16x1	-	A		164,00
BT-AD/B . 040 . SF . 32 . 120	40	32	44	53	120	62	10		M16x1	1,8	A		194,00
BT-AD/B . 040 . SF . 32 . 160	40	32	44	53	160	62	10		M16x1	2	A		216,00

JIS
B6339Form
AD/BG 2,5
25.000 rpm

art.	BT	d1	d2	d3	l1	l2	l3		g	kg	Form screw	€
BT-AD/B .050 . SF .03. 100 50 3 10 17 100 - - - - 3,6 A												284,00
BT-AD/B .050 . SF .03. 120 50 3 10 20 120 - - - - 3,7 A												323,00
BT-AD/B .050 . SF .03. 160 50 3 10 20 160 - - - - 3,9 A												354,00
BT-AD/B .050 . SF .04. 100 50 4 15 22 100 - - - - 3,7 A												278,00
BT-AD/B .050 . SF .04. 120 50 4 15 22 120 - - - - 3,8 A												318,00
BT-AD/B .050 . SF .04. 160 50 4 15 22 160 - - - - 4 A												349,00
BT-AD/B .050 . SF .05. 100 50 5 15 22 100 - - - - 3,7 A												278,00
BT-AD/B .050 . SF .05. 120 50 5 15 22 120 - - - - 3,8 A												318,00
BT-AD/B .050 . SF .05. 160 50 5 15 22 160 - - - - 4 A												349,00
BT-AD/B .050 . SF .06. 100 50 6 21 27 100 36 10 M5 3,8 A												246,00
BT-AD/B .050 . SF .06. 120 50 6 21 27 120 36 10 M5 3,8 A												289,00
BT-AD/B .050 . SF .06. 160 50 6 21 27 160 36 10 M5 4,2 A												316,00
BT-AD/B .050 . SF .08. 100 50 8 21 27 100 36 10 M6 3,8 A												246,00
BT-AD/B .050 . SF .08. 120 50 8 21 27 120 36 10 M6 3,8 A												289,00
BT-AD/B .050 . SF .08. 160 50 8 21 27 160 36 10 M6 4,2 A												316,00
BT-AD/B .050 . SF .10. 100 50 10 24 32 100 41 10 M8x1 3,9 A												246,00
BT-AD/B .050 . SF .10. 120 50 10 24 32 120 41 10 M8x1 4,2 A												289,00
BT-AD/B .050 . SF .10. 160 50 10 24 32 160 41 10 M8x1 4,3 A												316,00
BT-AD/B .050 . SF .12. 100 50 12 24 32 100 47 10 M10x1 3,8 A												246,00
BT-AD/B .050 . SF .12. 120 50 12 24 32 120 47 10 M10x1 4 A												289,00
BT-AD/B .050 . SF .12. 160 50 12 24 32 160 47 10 M10x1 4,2 A												316,00
BT-AD/B .050 . SF .14. 100 50 14 27 34 100 47 10 M10x1 3,9 A												246,00
BT-AD/B .050 . SF .14. 120 50 14 27 34 120 47 10 M10x1 4 A												289,00
BT-AD/B .050 . SF .14. 160 50 14 27 34 160 47 10 M10x1 4,3 A												316,00
BT-AD/B .050 . SF .16. 100 50 16 27 34 100 50 10 M12x1 3,8 A												246,00
BT-AD/B .050 . SF .16. 120 50 15 27 34 120 50 10 M12x1 4 A												289,00
BT-AD/B .050 . SF .16. 160 50 16 27 34 160 50 10 M12x1 4,3 A												316,00
BT-AD/B .050 . SF .18. 100 50 18 33 42 100 50 10 M12x1 4,0 A												246,00
BT-AD/B .050 . SF .18. 120 50 18 33 42 120 50 10 M12x1 4,2 A												289,00
BT-AD/B .050 . SF .18. 160 50 18 33 42 160 50 10 M12x1 4,6 A												316,00
BT-AD/B .050 . SF .20. 100 50 20 33 42 100 52 10 M16x1 4,0 A												246,00
BT-AD/B .050 . SF .20. 120 50 20 33 42 120 52 10 M16x1 4,2 A												289,00
BT-AD/B .050 . SF .20. 160 50 20 33 42 160 52 10 M16x1 4,5 A												316,00
BT-AD/B .050 . SF .25. 110 50 25 44 53 110 58 10 M16x1 4,2 A												246,00
BT-AD/B .050 . SF .25. 120 50 25 44 53 120 58 10 M16x1 4,6 A												289,00
BT-AD/B .050 . SF .25. 160 50 25 44 53 160 58 10 M16x1 5,1 A												316,00
BT-AD/B .050 . SF .32. 110 50 32 44 53 110 62 10 M16x1 4,1 A												246,00
BT-AD/B .050 . SF .32. 120 50 32 44 53 120 62 10 M16x1 4,4 A												289,00
BT-AD/B .050 . SF .32. 160 50 32 44 53 160 62 10 M16x1 4,9 A												316,00

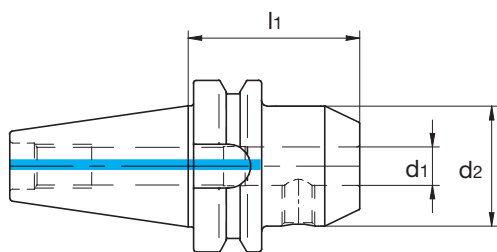


JIS
B6339

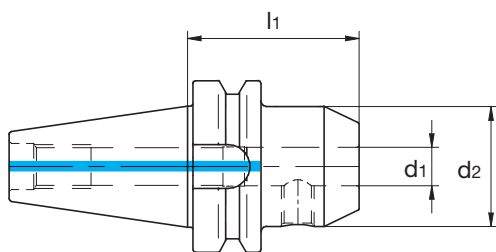
Form
AD

G 6,3
15.000 rpm

art.				BT	d1	d2		I1								€
BT-AD	. 030 .	W	. 06 . 050	30	6	25		50								87,00
BT-AD	. 030 .	W	. 08 . 050	30	8	28		50								78,00
BT-AD	. 030 .	W	. 10 . 050	30	10	35		50								78,00
BT-AD	. 030 .	W	. 12 . 055	30	12	42		55								78,00
BT-AD	. 030 .	W	. 16 . 063	30	16	48		63								78,00
BT-AD	. 030 .	W	. 20 . 070	30	20	52		70								78,00

JIS
B6339Form
ADG 6,3
15.000 rpm

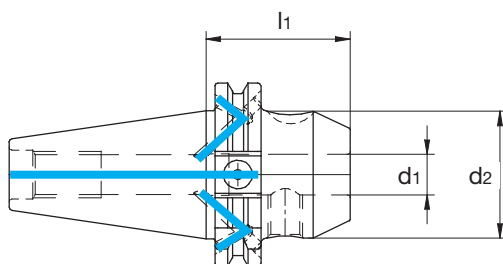
art.	BT	d1	d2	l1									€
BT-AD .040 . W .06 .050	40	6	25	50									62,00
BT-AD .040 . W .06 .100	40	6	25	100									114,00
BT-AD .040 . W .08 .050	40	8	28	50									59,00
BT-AD .040 . W .08 .100	40	8	28	100									103,00
BT-AD .040 . W .08 .130	40	8	28	130									134,00
BT-AD .040 . W .08 .160	40	8	28	160									145,00
BT-AD .040 . W .08 .200	40	8	28	200									160,00
BT-AD .040 . W .10 .063	40	10	35	63									59,00
BT-AD .040 . W .10 .100	40	10	35	100									103,00
BT-AD .040 . W .10 .130	40	10	35	130									134,00
BT-AD .040 . W .10 .160	40	10	35	160									145,00
BT-AD .040 . W .10 .200	40	10	35	200									160,00
BT-AD .040 . W .12 .063	40	12	42	63									59,00
BT-AD .040 . W .12 .100	40	12	42	100									103,00
BT-AD .040 . W .12 .130	40	12	42	130									134,00
BT-AD .040 . W .12 .160	40	12	42	160									145,00
BT-AD .040 . W .12 .200	40	12	42	200									175,00
BT-AD .040 . W .14 .063	40	14	44	63									59,00
BT-AD .040 . W .14 .100	40	14	44	100									103,00
BT-AD .040 . W .14 .130	40	14	44	130									134,00
BT-AD .040 . W .14 .160	40	14	44	160									145,00
BT-AD .040 . W .14 .200	40	14	44	200									160,00
BT-AD .040 . W .16 .063	40	16	48	63									59,00
BT-AD .040 . W .16 .100	40	16	48	100									103,00
BT-AD .040 . W .16 .130	40	16	48	130									134,00
BT-AD .040 . W .16 .160	40	16	48	160									145,00
BT-AD .040 . W .16 .200	40	16	48	200									160,00
BT-AD .040 . W .18 .063	40	18	50	63									59,00
BT-AD .040 . W .20 .063	40	20	52	63									59,00
BT-AD .040 . W .20 .100	40	20	52	100									103,00
BT-AD .040 . W .20 .130	40	20	52	130									134,00
BT-AD .040 . W .20 .160	40	20	52	160									145,00
BT-AD .040 . W .20 .200	40	20	52	200									160,00
BT-AD .040 . W .25 .090	40	25	65	90									63,00
BT-AD .040 . W .25 .130	40	25	65	130									145,00
BT-AD .040 . W .25 .160	40	25	65	160									165,00
BT-AD .040 . W .25 .200	40	25	65	200									175,00
BT-AD .040 . W .32 .100	40	32	72	100									71,00
BT-AD .040 . W .32 .130	40	32	72	130									163,00
BT-AD .040 . W .32 .160	40	32	72	160									184,00
BT-AD .040 . W .32 .200	40	32	72	200									189,00
BT-AD .040 . W .40 .105	40	40	80	105									129,00


JIS
B6339

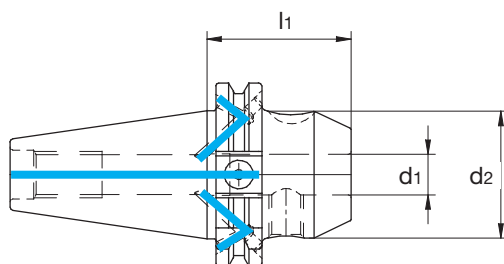
Form
AD

G 6,3
15.000 rpm

art.	BT	d1	d2	l1									€
BT-AD .050 . W .06 .063 50		6	25	63									108,00
BT-AD .050 . W .06 .100 50		6	25	63									160,00
BT-AD .050 . W .08 .063 50		8	28	63									105,00
BT-AD .050 . W .08 .100 50		8	28	100									144,00
BT-AD .050 . W .08 .130 50		8	28	130									180,00
BT-AD .050 . W .08 .160 50		8	28	160									186,00
BT-AD .050 . W .08 .200 50		8	28	200									218,00
BT-AD .050 . W .10 .063 50		10	35	63									105,00
BT-AD .050 . W .10 .070 50		10	35	70									105,00
BT-AD .050 . W .10 .100 50		10	35	100									144,00
BT-AD .050 . W .10 .130 50		10	35	130									180,00
BT-AD .050 . W .10 .160 50		10	35	160									186,00
BT-AD .050 . W .10 .200 50		10	35	200									218,00
BT-AD .050 . W .12 .080 50		12	42	80									105,00
BT-AD .050 . W .12 .100 50		12	42	100									144,00
BT-AD .050 . W .12 .130 50		12	42	130									180,00
BT-AD .050 . W .12 .160 50		12	42	160									186,00
BT-AD .050 . W .12 .200 50		12	42	200									218,00
BT-AD .050 . W .14 .080 50		14	44	80									105,00
BT-AD .050 . W .14 .100 50		14	44	100									144,00
BT-AD .050 . W .14 .130 50		14	44	130									180,00
BT-AD .050 . W .14 .160 50		14	44	160									186,00
BT-AD .050 . W .14 .200 50		14	44	200									218,00
BT-AD .050 . W .16 .080 50		16	48	80									105,00
BT-AD .050 . W .16 .100 50		16	48	100									144,00
BT-AD .050 . W .16 .130 50		16	48	130									180,00
BT-AD .050 . W .16 .160 50		16	48	160									186,00
BT-AD .050 . W .16 .200 50		16	48	200									218,00
BT-AD .050 . W .18 .080 50		18	50	80									105,00
BT-AD .050 . W .20 .080 50		20	52	80									105,00
BT-AD .050 . W .20 .100 50		20	52	100									144,00
BT-AD .050 . W .20 .130 50		20	52	130									180,00
BT-AD .050 . W .20 .160 50		20	52	160									186,00
BT-AD .050 . W .20 .200 50		20	52	200									218,00
BT-AD .050 . W .25 .100 50		25	65	100									114,00
BT-AD .050 . W .25 .130 50		25	65	130									186,00
BT-AD .050 . W .25 .160 50		25	65	160									198,00
BT-AD .050 . W .25 .200 50		25	65	200									228,00
BT-AD .050 . W .32 .105 50		32	72	105									122,00
BT-AD .050 . W .32 .130 50		32	72	130									191,00
BT-AD .050 . W .32 .160 50		32	72	160									205,00
BT-AD .050 . W .32 .200 50		32	72	200									250,00
BT-AD .050 . W .40 .120 50		32	80	120									182,00

JIS
B6339Form
AD/BG 6,3
15.000 rpm

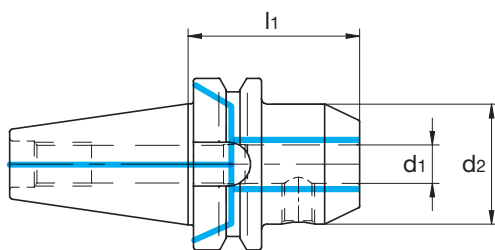
art.	BT	d1	d2	l1									€
BT-AD/B . 040 . W . 06 . 050	40	6	25	50									95,00
BT-AD/B . 040 . W . 06 . 100	40	6	25	100									114,00
BT-AD/B . 040 . W . 08 . 050	40	8	28	50									89,00
BT-AD/B . 040 . W . 08 . 100	40	8	28	100									103,00
BT-AD/B . 040 . W . 08 . 130	40	8	28	130									134,00
BT-AD/B . 040 . W . 08 . 160	40	8	28	160									145,00
BT-AD/B . 040 . W . 08 . 200	40	8	28	200									160,00
BT-AD/B . 040 . W . 10 . 063	40	10	35	63									89,00
BT-AD/B . 040 . W . 10 . 100	40	10	35	100									103,00
BT-AD/B . 040 . W . 10 . 130	40	10	35	130									134,00
BT-AD/B . 040 . W . 10 . 160	40	10	35	160									145,00
BT-AD/B . 040 . W . 10 . 200	40	10	35	200									160,00
BT-AD/B . 040 . W . 12 . 063	40	12	42	63									89,00
BT-AD/B . 040 . W . 12 . 100	40	12	42	100									103,00
BT-AD/B . 040 . W . 12 . 130	40	12	42	130									134,00
BT-AD/B . 040 . W . 12 . 160	40	12	42	160									145,00
BT-AD/B . 040 . W . 12 . 200	40	12	42	200									160,00
BT-AD/B . 040 . W . 14 . 063	40	14	44	63									89,00
BT-AD/B . 040 . W . 14 . 100	40	14	44	100									103,00
BT-AD/B . 040 . W . 14 . 130	40	14	44	130									134,00
BT-AD/B . 040 . W . 14 . 160	40	14	44	160									145,00
BT-AD/B . 040 . W . 14 . 200	40	14	44	200									160,00
BT-AD/B . 040 . W . 16 . 063	40	16	48	63									89,00
BT-AD/B . 040 . W . 16 . 100	40	16	48	100									103,00
BT-AD/B . 040 . W . 16 . 130	40	16	48	130									134,00
BT-AD/B . 040 . W . 16 . 160	40	16	48	160									145,00
BT-AD/B . 040 . W . 16 . 200	40	16	48	200									160,00
BT-AD/B . 040 . W . 18 . 063	40	18	50	63									89,00
BT-AD/B . 040 . W . 20 . 063	40	20	52	63									89,00
BT-AD/B . 040 . W . 20 . 100	40	20	52	100									103,00
BT-AD/B . 040 . W . 20 . 130	40	20	52	130									134,00
BT-AD/B . 040 . W . 20 . 160	40	20	52	160									145,00
BT-AD/B . 040 . W . 20 . 200	40	20	52	200									160,00
BT-AD/B . 040 . W . 25 . 090	40	25	65	90									104,00
BT-AD/B . 040 . W . 25 . 130	40	25	65	130									145,00
BT-AD/B . 040 . W . 25 . 160	40	25	65	160									165,00
BT-AD/B . 040 . W . 25 . 200	40	25	65	200									175,00
BT-AD/B . 040 . W . 32 . 100	40	32	72	100									114,00
BT-AD/B . 040 . W . 32 . 130	40	32	72	130									163,00
BT-AD/B . 040 . W . 32 . 160	40	32	72	160									184,00
BT-AD/B . 040 . W . 32 . 200	40	32	72	200									190,00
BT-AD/B . 040 . W . 40 . 105	40	40	80	105									161,00


JIS
B6339

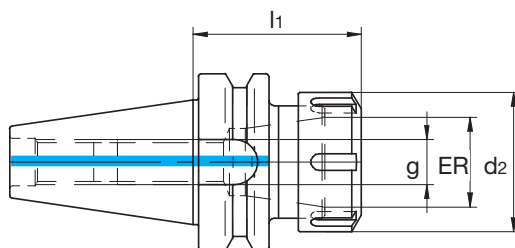
Form
AD/B

G 6,3
15.000 rpm

art.	BT	d1	d2	l1								€
BT-AD/B . 050 . W . 06 . 063	50	6	25	63								144,00
BT-AD/B . 050 . W . 06 . 100	50	6	25	63								160,00
BT-AD/B . 050 . W . 08 . 063	50	8	28	63								127,00
BT-AD/B . 050 . W . 08 . 100	50	8	28	100								144,00
BT-AD/B . 050 . W . 08 . 130	50	8	28	130								180,00
BT-AD/B . 050 . W . 08 . 160	50	8	28	160								186,00
BT-AD/B . 050 . W . 08 . 200	50	8	28	200								218,00
BT-AD/B . 050 . W . 10 . 070	50	10	35	70								127,00
BT-AD/B . 050 . W . 10 . 100	50	10	35	100								144,00
BT-AD/B . 050 . W . 10 . 130	50	10	35	130								180,00
BT-AD/B . 050 . W . 10 . 160	50	10	35	160								186,00
BT-AD/B . 050 . W . 10 . 200	50	10	35	200								218,00
BT-AD/B . 050 . W . 12 . 080	50	12	42	80								127,00
BT-AD/B . 050 . W . 12 . 100	50	12	42	100								144,00
BT-AD/B . 050 . W . 12 . 130	50	12	42	130								180,00
BT-AD/B . 050 . W . 12 . 160	50	12	42	160								186,00
BT-AD/B . 050 . W . 12 . 200	50	12	42	200								218,00
BT-AD/B . 050 . W . 14 . 080	50	14	44	80								127,00
BT-AD/B . 050 . W . 14 . 100	50	14	44	100								144,00
BT-AD/B . 050 . W . 14 . 130	50	14	44	130								181,00
BT-AD/B . 050 . W . 14 . 160	50	14	44	160								186,00
BT-AD/B . 050 . W . 14 . 200	50	14	44	200								218,00
BT-AD/B . 050 . W . 16 . 080	50	16	48	80								186,00
BT-AD/B . 050 . W . 16 . 100	50	16	48	100								144,00
BT-AD/B . 050 . W . 16 . 130	50	16	48	130								97,00
BT-AD/B . 050 . W . 16 . 160	50	16	48	160								186,00
BT-AD/B . 050 . W . 16 . 200	50	16	48	200								218,00
BT-AD/B . 050 . W . 18 . 080	50	18	48	80								127,00
BT-AD/B . 050 . W . 20 . 080	50	20	52	80								127,00
BT-AD/B . 050 . W . 20 . 100	50	20	52	100								144,00
BT-AD/B . 050 . W . 20 . 130	50	20	52	130								181,00
BT-AD/B . 050 . W . 20 . 160	50	20	52	160								186,00
BT-AD/B . 050 . W . 20 . 200	50	20	52	200								218,00
BT-AD/B . 050 . W . 25 . 100	50	25	65	100								146,00
BT-AD/B . 050 . W . 25 . 130	50	25	65	130								186,00
BT-AD/B . 050 . W . 25 . 160	50	25	65	160								198,00
BT-AD/B . 050 . W . 25 . 200	50	25	65	200								228,00
BT-AD/B . 050 . W . 32 . 105	50	32	72	105								155,00
BT-AD/B . 050 . W . 32 . 130	50	32	72	130								191,00
BT-AD/B . 050 . W . 32 . 160	50	32	72	160								205,00
BT-AD/B . 050 . W . 32 . 200	50	32	72	200								150,00
BT-AD/B . 050 . W . 40 . 120	50	32	80	120								182,00

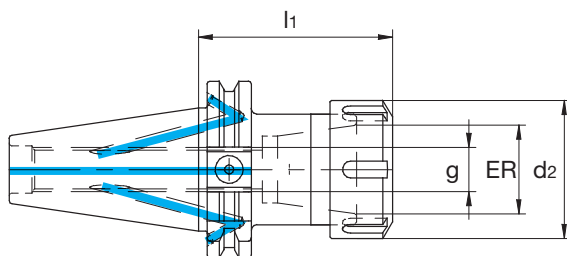
JIS
B6339Form
AFG 6,3
15.000 rpm

art.	BT	d1	d2	l1									€
BT-AF . 040 . W . 06 . 050	40	6	25	50									141,00
BT-AF . 040 . W . 08 . 050	40	8	28	50									131,00
BT-AF . 040 . W . 10 . 063	40	10	35	63									131,00
BT-AF . 040 . W . 12 . 063	40	12	42	63									131,00
BT-AF . 040 . W . 14 . 063	40	14	44	63									131,00
BT-AF . 040 . W . 16 . 063	40	16	48	63									131,00
BT-AF . 040 . W . 18 . 063	40	18	50	63									131,00
BT-AF . 040 . W . 20 . 063	40	20	52	63									131,00
BT-AF . 040 . W . 25 . 090	40	25	65	90									144,00
BT-AF . 040 . W . 32 . 100	40	32	72	100									155,00
BT-AF . 040 . W . 40 . 105	40	40	80	105									198,00
BT-AF . 050 . W . 06 . 063	50	6	25	63									194,00
BT-AF . 050 . W . 08 . 063	50	8	28	63									186,00
BT-AF . 050 . W . 10 . 070	50	10	35	70									186,00
BT-AF . 050 . W . 12 . 080	50	12	42	80									186,00
BT-AF . 050 . W . 14 . 080	50	14	44	80									186,00
BT-AF . 050 . W . 16 . 080	50	16	48	80									186,00
BT-AF . 050 . W . 18 . 080	50	18	50	80									186,00
BT-AF . 050 . W . 20 . 080	50	20	52	80									186,00
BT-AF . 050 . W . 25 . 100	50	25	65	100									194,00
BT-AF . 050 . W . 32 . 105	50	32	72	105									204,00
BT-AF . 050 . W . 40 . 120	50	40	80	120									231,00

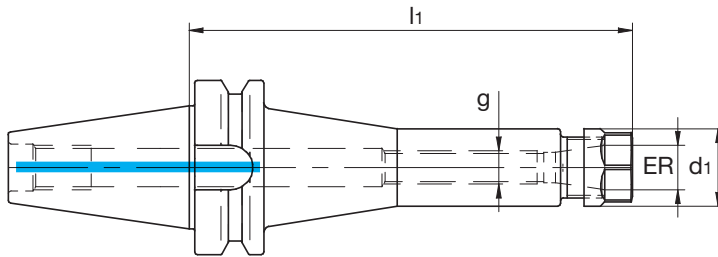
JIS
B6339Form
ADG 6,3
15.000 rpm

art.	BT	ER	d2	l1	g	kg	€
BT - AD , 040 , ER-NT , 16 , 070	40	ER 16 (1 -10)	32	70	M10x20	-	66,00
BT - AD , 040 , ER-NT , 16 , 100	40	ER 16 (1 -10)	32	100	M10x20	-	89,00
BT - AD , 040 , ER-NT , 20 , 070	40	ER 20 (1 -13)	35	70	M12x30	-	83,00
BT - AD , 040 , ER-NT , 20 , 100	40	ER 20 (1 -13)	35	100	M12x30	-	103,00
BT - AD , 040 , ER-NT , 25 , 060	40	ER 25 (1 -16)	32	60	M16	1,0	64,00
BT - AD , 040 , ER-NT , 25 , 100	40	ER 25 (1 -16)	32	100	M16	1,3	77,00
BT - AD , 040 , ER-NT , 25 , 160	40	ER 25 (1 -16)	32	160	M16	1,6	114,00
BT - AD , 040 , ER-NT , 32 , 060	40	ER 32 (2 -20)	40	60	M16	1,0	68,00
BT - AD , 040 , ER-NT , 32 , 100	40	ER 32 (2 -20)	40	100	M16	1,4	81,00
BT - AD , 040 , ER-NT , 32 , 160	40	ER 32 (2 -20)	40	160	M16	1,9	122,00
BT - AD , 040 , ER-NT , 32 , 200	40	ER 32 (2 -20)	50	200	M22x1,5x8	-	138,00
BT - AD , 040 , ER-NT , 40 , 080	40	ER 40 (3 -26)	50	80	M16	1,3	71,00
BT - AD , 040 , ER-NT , 40 , 100	40	ER 40 (3 -30)	63	100	M27x1,5x8	-	106,00
BT - AD , 040 , ER-NT , 40 , 120	40	ER 40 (3 -26)	50	120	M16	1,9	84,00
BT - AD , 040 , ER-NT , 40 , 160	40	ER 40 (3 -26)	50	160	M16	2,4	125,00

BT-AD . 050 . ER-NT . 25 . 080	50	ER 25 (1 -16)	42	80	M18x1,5x8	-	117,00
BT-AD . 050 . ER-NT . 25 . 100	50	ER 25 (1 -16)	42	100	M18x1,5x8	-	147,00
BT-AD . 050 . ER-NT . 25 . 160	50	ER 25 (1 -16)	42	160	M18x1,5x8	-	175,00
BT-AD . 050 . ER-NT . 25 . 200	50	ER 25 (1 -16)	42	200	M18x1,5x8	-	204,00
BT-AD . 050 . ER-NT . 32 . 070	50	ER 32 (2 -20)	40	70	M16	3,7	68,00
BT-AD . 050 . ER-NT . 32 . 100	50	ER 32 (2 -20)	50	100	M22x1,5x8	-	151,00
BT-AD . 050 . ER-NT . 32 . 130	50	ER 32 (2 -20)	50	130	M22x1,5x8	-	180,00
BT-AD . 050 . ER-NT . 32 . 160	50	ER 32 (2 -20)	50	160	M22x1,5x8	-	186,00
BT-AD . 050 . ER-NT . 32 . 200	50	ER 32 (2 -20)	50	200	M22x1,5x8	-	218,00
BT-AD . 050 . ER-NT . 32 . 250	50	ER 32 (2 -20)	50	250	M22x1,5x8	-	255,00
BT-AD . 050 . ER-NT . 40 . 080	50	ER 40 (3 -26)	50	80	M16	3,8	71,00
BT-AD . 050 . ER-NT . 40 . 100	50	ER 40 (3 -30)	63	100	M27x1,5x8	-	153,00
BT-AD . 050 . ER-NT . 40 . 160	50	ER 40 (3 -30)	63	160	M27x1,5x8	-	194,00
BT-AD . 050 . ER-NT . 40 . 200	50	ER 40 (3 -30)	63	200	M27x1,5x8	-	239,00

JIS
B6339Form
AD/BG 6,3
15.000 rpm

art.	BT	ER	d2	l1	g	€
BT - AD/B . 040 . ER-NT . 16 . 070	40	ER 16 (1 - 10)	32	70	M10x20	95,00
BT - AD/B . 040 . ER-NT . 16 . 100	40	ER 16 (1 - 10)	32	100	M10x20	103,00
BT - AD/B . 040 . ER-NT . 20 . 070	40	ER 20 (1 - 13)	35	70	M12x30	109,00
BT - AD/B . 040 . ER-NT . 20 . 100	40	ER 20 (1 - 13)	35	100	M12x30	121,00
BT - AD/B . 040 . ER-NT . 25 . 070	40	ER 25 (1 - 16)	42	70	M18x1,5x8	95,00
BT - AD/B . 040 . ER-NT . 25 . 100	40	ER 25 (1 - 16)	42	100	M18x1,5x8	103,00
BT - AD/B . 040 . ER-NT . 25 . 160	40	ER 25 (1 - 16)	42	160	M18x1,5x8	125,00
BT - AD/B . 040 . ER-NT . 32 . 160	40	ER 32 (2 - 20)	50	160	M22x1,5x8	128,00
BT - AD/B . 040 . ER-NT . 32 . 200	40	ER 32 (2 - 20)	50	200	M22x1,5x8	143,00
BT - AD/B . 040 . ER-NT . 40 . 070	40	ER 40 (3 - 30)	63	70	M27x1,5x8	106,00
BT - AD/B . 040 . ER-NT . 40 . 100	40	ER 40 (3 - 30)	63	100	M27x1,5x8	122,00
BT - AD/B . 050 . ER-NT . 25 . 080	50	ER 25 (1 - 16)	42	80	M18x1,5x8	130,00
BT - AD/B . 050 . ER-NT . 25 . 100	50	ER 25 (1 - 16)	42	100	M18x1,5x8	153,00
BT - AD/B . 050 . ER-NT . 25 . 160	50	ER 25 (1 - 16)	42	160	M18x1,5x8	188,00
BT - AD/B . 050 . ER-NT . 25 . 200	50	ER 25 (1 - 16)	42	200	M18x1,5x8	237,00
BT - AD/B . 050 . ER-NT . 32 . 080	50	ER 32 (2 - 20)	50	80	M22x1,5x8	127,00
BT - AD/B . 050 . ER-NT . 32 . 100	50	ER 32 (2 - 20)	50	100	M22x1,5x8	161,00
BT - AD/B . 050 . ER-NT . 32 . 130	50	ER 32 (2 - 20)	50	130	M22x1,5x8	186,00
BT - AD/B . 050 . ER-NT . 32 . 160	50	ER 32 (2 - 20)	50	160	M22x1,5x8	194,00
BT - AD/B . 050 . ER-NT . 32 . 200	50	ER 32 (2 - 20)	50	200	M22x1,5x8	253,00
BT - AD/B . 050 . ER-NT . 32 . 250	50	ER 32 (2 - 20)	50	250	M22x1,5x8	296,00
BT - AD/B . 050 . ER-NT . 40 . 080	50	ER 40 (3 - 30)	63	80	M27x1,5x8	136,00
BT - AD/B . 050 . ER-NT . 40 . 100	50	ER 40 (3 - 30)	63	100	M27x1,5x8	164,00
BT - AD/B . 050 . ER-NT . 40 . 160	50	ER 40 (3 - 30)	63	160	M27x1,5x8	200,00
BT - AD/B . 050 . ER-NT . 40 . 200	50	ER 40 (3 - 30)	63	200	M27x1,5x8	259,00

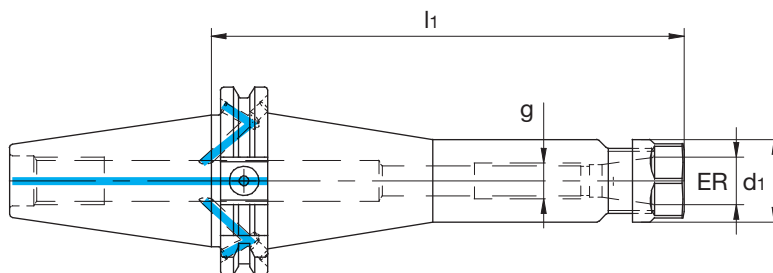


JIS
B6339

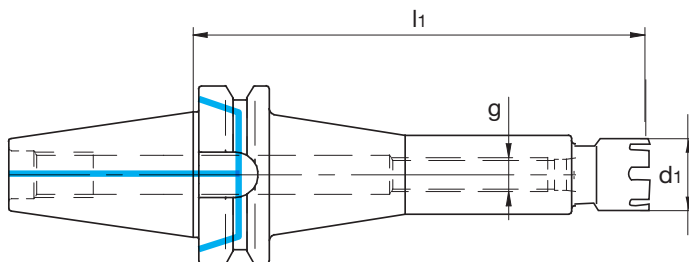
Form
AD

G 6,3
15.000 rpm

art.		BT	ER		d1			l1			g		kg		€
BT-AD	. 040 . ER-LT . 11 . 070	40	ER 11 (1 - 7)		19			70			M6x14		-		143,00
BT-AD	. 040 . ER-LT . 11 . 100	40	ER 11 (1 - 7)		19			100			M6x14		-		147,00
BT-AD	. 040 . ER-LT . 16 . 063	40	ER 16 (0.5 - 10)		28			63			M 12		1,1		75,00
BT-AD	. 040 . ER-LT . 16 . 100	40	ER 16 (0.5 - 10)		28			100			M 12		1,2		86,00
BT-AD	. 040 . ER-LT . 16 . 130	40	ER 16 (1 - 10)		28			130			M10x20		-		101,00
BT-AD	. 040 . ER-LT . 16 . 160	40	ER 16 (0.5 - 10)		28			160			M 12		1,6		144,00
BT-AD	. 040 . ER-LT . 20 . 100	40	ER 20 (1 - 13)		34			100			M12x30		-		103,00
BT-AD	. 040 . ER-LT . 20 . 130	40	ER 20 (1 - 13)		34			130			M12x30		-		116,00
BT-AD	. 050 . ER-LT . 16 . 100	50	ER 16 (0.5 - 10)		28			100			M 12		3,8		176,00
BT-AD	. 050 . ER-LT . 16 . 160	50	ER 16 (0.5 - 10)		28			160			M 12		4,0		240,00
BT-AD	. 050 . ER-LT . 20 . 100	50	ER 20 (1 - 13)		34			100			M12x30		-		161,00
BT-AD	. 050 . ER-LT . 20 . 160	50	ER 20 (1 - 13)		34			160			M12x30		-		211,00

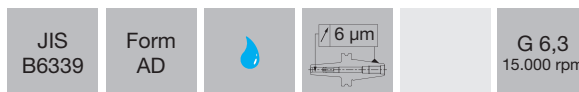
JIS
B6339Form
AD/BG 6,3
15.000 rpm

art.	BT	ER	d1			l1			g			€
BT-AD/B . 040 . ER-LT . 11 . 070	40	ER 11 (1 - 7)	19			70			M6x14			143,00
BT-AD/B . 040 . ER-LT . 11 . 100	40	ER 11 (1 - 7)	19			100			M6x14			147,00
BT-AD/B . 040 . ER-LT . 16 . 130	40	ER 16 (1 - 10)	28			130			M10x20			114,00
BT-AD/B . 040 . ER-LT . 16 . 160	40	ER 16 (1 - 10)	28			160			M10x20			120,00
BT-AD/B . 040 . ER-LT . 20 . 100	40	ER 20 (1 - 13)	34			100			M12x30			121,00
BT-AD/B . 040 . ER-LT . 20 . 130	40	ER 20 (1 - 13)	34			130			M12x30			136,00
BT-AD/B . 050 . ER-LT . 20 . 100	50	ER 20 (1 - 13)	34			100			M12x30			172,00
BT-AD/B . 050 . ER-LT . 20 . 160	50	ER 20 (1 - 13)	34			160			M12x30			219,00

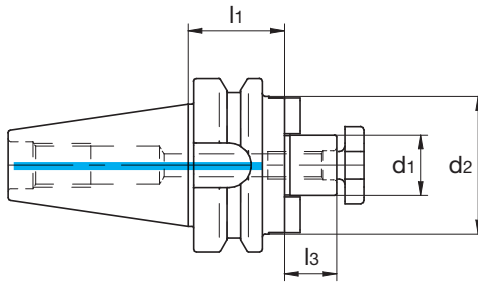
DIN
69871Form
AD/B

G6,3
15.000 min⁻¹

art.	BT	ER	d1		l1				g				€
BT-AD-B . 040 . ER-MN . 11 . 070	40	ER 11 (1 - 7)	16		70				M6x14				143,00
BT-AD-B . 040 . ER-MN . 11 . 100	40	ER 11 (1 - 7)	16		100				M6x14				147,00
BT-AD-B . 040 . ER-MN . 16 . 130	40	ER 16 (1 - 10)	22		130				M10x20				157,00
BT-AD-B . 040 . ER-MN . 16 . 160	40	ER 16 (0,5 - 10)	22		160				M10x20				167,00
BT-AD-B . 040 . ER-MN . 20 . 100	40	ER 20 (1 - 13)	28		100				M12x30				147,00
BT-AD-B . 040 . ER-MN . 20 . 130	40	ER 20 (1 - 13)	28		130				M12x30				157,00
BT-AD-B . 050 . ER-MN . 20 . 130	50	ER 20 (1 - 13)	28		130				M12x30				194,00
BT-AD-B . 050 . ER-MN . 20 . 160	50	ER 20 (1 - 13)	28		160				M12x30				211,00
BT-AD-B . 050 . ER-MN . 25 . 130	50	ER 25 (1 - 16)	34		130				M18x1,5x8				196,00
BT-AD-B . 050 . ER-MN . 25 . 160	50	ER 20 (1 - 13)	34		160				M18x1,5x8				211,00



EVO



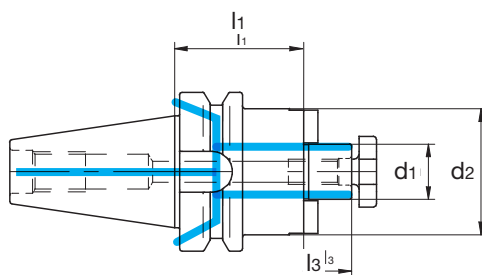
JIS
B6339

Form
AD

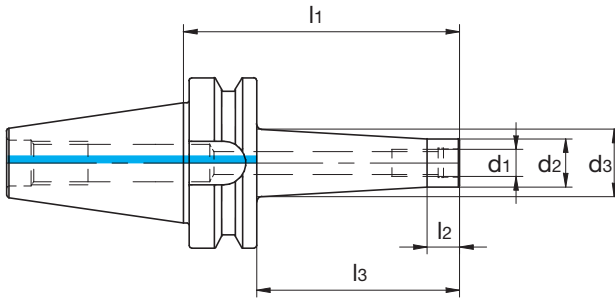


G 6,3
15.000 rpm

art.	BT	d1	d2	l1	l3	kg	€
BT-AD . 040 . SM-E . 16 . 035	40	16	40	35	17	1.0	80,00
BT-AD . 040 . SM-E . 16 . 045	40	16	38	45	17	-	70,00
BT-AD . 040 . SM-E . 22 . 035	40	22	50	35	19	1.2	80,00
BT-AD . 040 . SM-E . 22 . 045	40	22	48	45	19	-	69,00
BT-AD . 040 . SM-E . 22 . 100	40	22	46	100	19	-	109,00
BT-AD . 040 . SM-E . 27 . 035	40	27	60	35	21	1.2	80,00
BT-AD . 040 . SM-E . 27 . 045	40	27	58	45	21	-	75,00
BT-AD . 040 . SM-E . 27 . 100	40	27	48	100	21	-	149,00
BT-AD . 040 . SM-E . 32 . 050	40	32	80	50	24	1.9	86,00
BT-AD . 040 . SM-E . 40 . 050	40	40	89	50	27	2.0	105,00
BT-AD . 040 . SM-E . 40 . 055	40	40	88	55	27	-	123,00
BT-AD . 050 . SM-E . 16 . 060	50	16	38	60	17	-	131,00
BT-AD . 050 . SM-E . 16 . 100	50	16	38	100	17	-	165,00
BT-AD . 050 . SM-E . 16 . 160	50	16	38	160	17	-	218,00
BT-AD . 050 . SM-E . 16 . 200	50	16	38	200	17	-	262,00
BT-AD . 050 . SM-E . 22 . 050	50	22	50	50	19	3.8	116,00
BT-AD . 050 . SM-E . 22 . 060	50	22	48	60	19	-	131,00
BT-AD . 050 . SM-E . 22 . 100	50	22	46	100	19	-	197,00
BT-AD . 050 . SM-E . 22 . 160	50	22	46	160	19	-	218,00
BT-AD . 050 . SM-E . 22 . 200	50	22	46	200	19	-	262,00
BT-AD . 050 . SM-E . 22 . 250	50	22	46	250	19	-	284,00
BT-AD . 050 . SM-E . 22 . 300	50	22	46	300	19	-	369,00
BT-AD . 050 . SM-E . 27 . 050	50	27	60	50	21	3.9	116,00
BT-AD . 050 . SM-E . 27 . 060	50	27	58	60	21	-	134,00
BT-AD . 050 . SM-E . 27 . 100	50	27	55	100	21	-	169,00
BT-AD . 050 . SM-E . 27 . 160	50	27	55	160	21	-	224,00
BT-AD . 050 . SM-E . 27 . 200	50	27	55	200	21	-	270,00
BT-AD . 050 . SM-E . 27 . 250	50	27	55	250	21	-	291,00
BT-AD . 050 . SM-E . 27 . 300	50	27	55	300	21	-	374,00
BT-AD . 050 . SM-E . 32 . 050	50	32	80	50	24	4.1	123,00
BT-AD . 050 . SM-E . 32 . 060	50	32	78	60	24	-	140,00
BT-AD . 050 . SM-E . 32 . 100	50	32	66	100	24	-	197,00
BT-AD . 050 . SM-E . 32 . 160	50	32	66	160	24	-	262,00
BT-AD . 050 . SM-E . 32 . 200	50	32	66	200	24	-	306,00
BT-AD . 050 . SM-E . 32 . 250	50	32	66	250	24	-	328,00
BT-AD . 050 . SM-E . 32 . 300	50	32	66	300	24	-	410,00
BT-AD . 050 . SM-E . 40 . 055	50	40	90	55	27	4.5	141,00
BT-AD . 050 . SM-E . 40 . 060	50	40	88	60	27	-	149,00
BT-AD . 050 . SM-E . 40 . 100	50	40	70	100	27	-	205,00
BT-AD . 050 . SM-E . 40 . 160	50	40	70	160	27	-	282,00
BT-AD . 050 . SM-E . 40 . 200	50	40	70	200	27	-	326,00
BT-AD . 050 . SM-E . 50 . 055	50	50	120	55	30	5.3	228,00

JIS
B6339Form
AFG 6,3
15.000 rpm

art.	BT	d1	d2	l1		l3							€
BT-AF .040 . SM-E .16 . 045	40	16	38	45		17							124,00
BT-AF .040 . SM-E .22 . 045	40	22	48	45		19							124,00
BT-AF .040 . SM-E .22 . 100	40	22	40	100		19							143,00
BT-AF .040 . SM-E .27 . 045	40	27	58	45		21							129,00
BT-AF .040 . SM-E .27 . 100	40	27	48	100		21							149,00
BT-AF .040 . SM-E .32 . 050	40	32	78	50		24							142,00
BT-AF .040 . SM-E .40 . 055	40	40	88	55		27							160,00
BT-AF .050 . SM-E .16 . 060	50	16	38	60		17							173,00
BT-AF .050 . SM-E .16 . 100	50	16	32	100		17							201,00
BT-AF .050 . SM-E .16 . 160	50	16	38	160		17							218,00
BT-AF .050 . SM-E .16 . 200	50	16	38	200		17							277,00
BT-AF .050 . SM-E .22 . 060	50	22	48	60		19							173,00
BT-AF .050 . SM-E .22 . 100	50	22	40	100		19							201,00
BT-AF .050 . SM-E .22 . 160	50	22	46	160		19							218,00
BT-AF .050 . SM-E .22 . 200	50	22	46	200		19							277,00
BT-AF .050 . SM-E .22 . 250	50	22	46	250		19							264,00
BT-AF .050 . SM-E .22 . 300	50	22	46	300		19							325,00
BT-AF .050 . SM-E .27 . 060	50	27	58	60		21							178,00
BT-AF .050 . SM-E .27 . 100	50	27	48	100		21							208,00
BT-AF .050 . SM-E .27 . 160	50	27	55	160		21							224,00
BT-AF .050 . SM-E .27 . 200	50	27	55	200		21							277,00
BT-AF .050 . SM-E .27 . 250	50	27	55	250		21							266,00
BT-AF .050 . SM-E .27 . 300	50	27	55	300		21							327,00
BT-AF .050 . SM-E .32 . 060	50	32	78	60		24							187,00
BT-AF .050 . SM-E .32 . 100	50	32	58	100		24							241,00
BT-AF .050 . SM-E .32 . 160	50	32	66	160		24							262,00
BT-AF .050 . SM-E .32 . 200	50	32	66	200		24							285,00
BT-AF .050 . SM-E .32 . 250	50	32	66	250		24							283,00
BT-AF .050 . SM-E .32 . 300	50	32	66	300		24							342,00
BT-AF .050 . SM-E .40 . 060	50	40	88	60		27							197,00
BT-AF .050 . SM-E .40 . 100	50	40	70	100		27							250,00
BT-AF .050 . SM-E .40 . 160	50	40	70	160		27							282,00
BT-AF .050 . SM-E .40 . 200	50	40	70	200		27							374,00



JIS
B6339

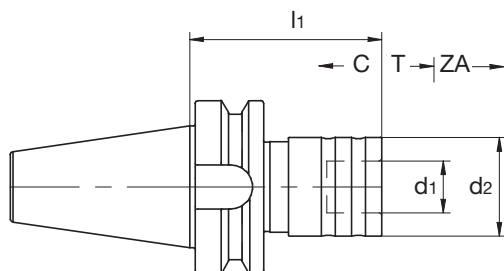
Form
AD



G 2,5
20.000 rpm

art.	BT	d1	d2	d3	l1	l2	l3			kg		€
BT-AD . 040 . SI . 08 . 032	40	M 8	13	15	32	12	25			1,0		155,00
BT-AD . 040 . SI . 08 . 077	40	M 8	18	25	77	12	50			1,1		183,00
BT-AD . 040 . SI . 08 . 102	40	M 8	13	23	102	12	75			1,1		202,00
BT-AD . 040 . SI . 10 . 032	40	M10	18	20	32	12	25			1,1		155,00
BT-AD . 040 . SI . 10 . 077	40	M10	18	25	77	12	50			1,1		183,00
BT-AD . 040 . SI . 10 . 102	40	M10	18	25	102	12	75			1,2		202,00
BT-AD . 040 . SI . 10 . 127	40	M10	18	32	127	12	100			1,3		229,00
BT-AD . 040 . SI . 10 . 177	40	M10	18	35	177	12	150			1,6		281,00
BT-AD . 040 . SI . 12 . 052	40	M12	21	24	52	12	25			1,1		183,00
BT-AD . 040 . SI . 12 . 077	40	M12	21	28	77	12	50			1,1		194,00
BT-AD . 040 . SI . 12 . 102	40	M12	21	31	102	12	75			1,2		202,00
BT-AD . 040 . SI . 12 . 127	40	M12	21	33	127	12	100			1,4		260,00
BT-AD . 040 . SI . 12 . 177	40	M12	21	40	177	12	150			1,7		281,00
BT-AD . 040 . SI . 16 . 052	40	M16	29	-	52	-	25			1,1		164,00
BT-AD . 040 . SI . 16 . 077	40	M16	29	34	77	12	50			1,2		179,00
BT-AD . 040 . SI . 16 . 102	40	M16	29	34	102	12	75			1,3		202,00
BT-AD . 040 . SI . 16 . 127	40	M16	29	36	127	12	100			1,5		260,00
BT-AD . 040 . SI . 16 . 177	40	M16	29	42	177	12	150			1,9		281,00

BT-AD . 050 . SI . 08 . 088	50	M 8	13	23	88	12	50			3,6		214,00
BT-AD . 050 . SI . 10 . 088	50	M10	18	25	88	12	50			3,7		214,00
BT-AD . 050 . SI . 10 . 113	50	M10	18	25	113	12	75			3,7		250,00
BT-AD . 050 . SI . 10 . 138	50	M10	18	32	138	12	100			3,9		269,00
BT-AD . 050 . SI . 10 . 188	50	M10	18	35	188	12	150			4,1		311,00
BT-AD . 050 . SI . 12 . 088	50	M12	21	28	88	12	50			3,7		214,00
BT-AD . 050 . SI . 12 . 113	50	M12	21	31	113	12	75			3,8		250,00
BT-AD . 050 . SI . 12 . 138	50	M12	21	33	138	12	100			3,9		269,00
BT-AD . 050 . SI . 12 . 188	50	M12	21	40	188	12	150			4,3		311,00
BT-AD . 050 . SI . 16 . 088	50	M16	29	34	88	12	50			3,8		214,00
BT-AD . 050 . SI . 16 . 113	50	M16	29	34	113	12	75			3,9		250,00
BT-AD . 050 . SI . 16 . 138	50	M16	29	36	138	12	100			4,1		269,00
BT-AD . 050 . SI . 16 . 188	50	M16	29	42	188	12	150			4,5		311,00

JIS
B6339

art.	BT	M	d1	d2	l1	C	T	ZA	kg	€
BT-A .040 . TH .01 . 066	40	M 3 - M14	19	36	66.5	5	8	2.1	1,2	458,00
BT-A .040 . TH .03 . 093	40	M 4.5 - M24	31	53	93.5	8.5	15	2.8	1,6	487,00
BT-A .050 . TH .01 . 082	50	M 3 - M14	19	36	82	5	8	2.1	4,0	582,00
BT-A .050 . TH .03 . 101	50	M 4.5 - M24	31	53	101.5	8.5	15	2.8	4,3	607,00

Lenght compensation on Compression and Tension

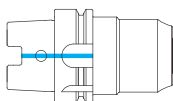
Compensazione assiale in Compressione ed in Trazione

TOOL HOLDERS





HYF

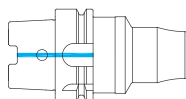


Milling hydraulic chuck Mandrino idraulico per fresatura

DIN 69893-1	Form A				G 2,5 25.000 rpm
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70

HYF-S

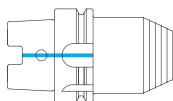


Milling hydraulic chuck - reduced Mandrino idraulico per fresatura - scaricato

DIN 69893-1	Form A				G 2,5 25.000 rpm
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71

HY

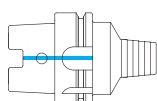


Hydraulic chuck Mandrino idraulico

DIN 69893-1	Form A				G 2,5 25.000 rpm
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72

HYS

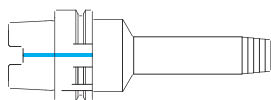


Hydraulic chuck - reduced Mandrino idraulico - scaricato

DIN 69893-1	Form A				G 2,5 25.000 rpm
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73

HY-LS

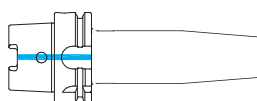


Hydraulic chuck - reduced long Mandrino idraulico - scaricato lungo

DIN 69893-1	Form A				G 2,5 25.000 rpm
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74

SF 40/50

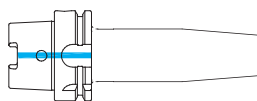


Shrink fit chuck Mandrino calettamento a caldo

DIN 69893-1	Form A				G 2,5 25.000 rpm
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75

SF 63

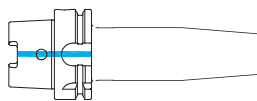


Shrink fit chuck Mandrino calettamento a caldo

DIN 69893-1	Form A				G 2,5 25.000 rpm
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76

SF 80



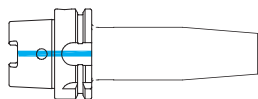
Shrink fit chuck Mandrino a calettamento a caldo

DIN 69893-1	Form A				G 2,5 25.000 rpm
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77



SF 100

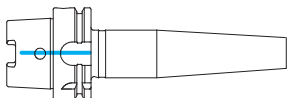


Shrink fit chuck
Mandrino a calettamento a caldo

DIN 69893-1	Form A			G 2,5 25.000 rpm
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78

SF-S 63

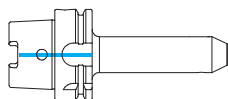


Shrink fit chuck - slim
Mandrino calettamento a caldo - snello

DIN 69893-1	Form A			G 2,5 25.000 rpm
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79

W 40/50

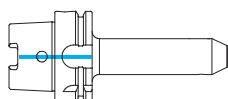


Weldon chuck
Mandrino Weldon

DIN 69893-1	Form A			G 6,3 15.000 rpm
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80

W 63

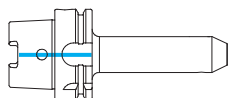


Weldon chuck
Mandrino Weldon

DIN 69893-1	Form A			G 6,3 15.000 rpm
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81

W 80/100

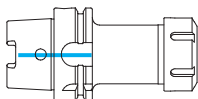


Weldon chuck
Mandrino Weldon

DIN 69893-1	Form A			G 6,3 15.000 rpm
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82

ER-NT

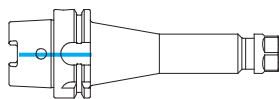


ER chuck with and without thread
Portapinze ER con e senza filetto

DIN 69893-1	Form A			G 6,3 15.000 rpm
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83

ER-LT

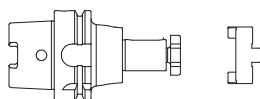


ER chuck with thread - long
Portapinze ER con filetto - lungo

DIN 69893-1	Form A			G 6,3 15.000 rpm
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84

SM



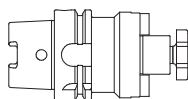
Shell end mill holder
Portafrese a manicotto

DIN 69893-1	Form A		G 6,3 15.000 rpm
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85



SM-E 50/60

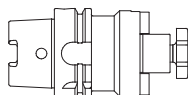


Shell end mill holder - enlarged
Portafrese a manicotto - maggiorato

DIN 69893-1	Form A				G 6,3 15.000 rpm
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86

SM-E 80/100

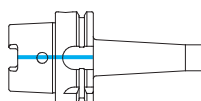


Shell end mill holder - enlarged
Portafrese a manicotto - maggiorato

DIN 69893-1	Form A				G 6,3 15.000 rpm
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87

SI 63

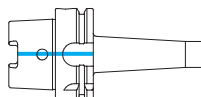


Screw-In milling cutters holder
Portatestina con filetto interno

DIN 69893-1	Form A				G 2,5 20.000 rpm
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88

SI 100

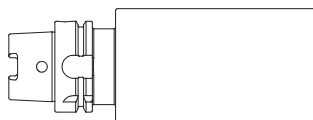


Screw-In milling cutters holder
Portatestina con filetto interno

DIN 69893-1	Form A				G 2,5 20.000 rpm
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89

TB

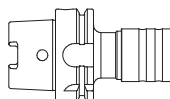


Tool blank
Barra grezza

DIN 69893-1					
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90

TH



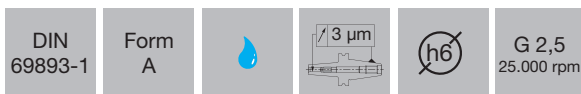
Tapping chuck
Mandrino maschiatore

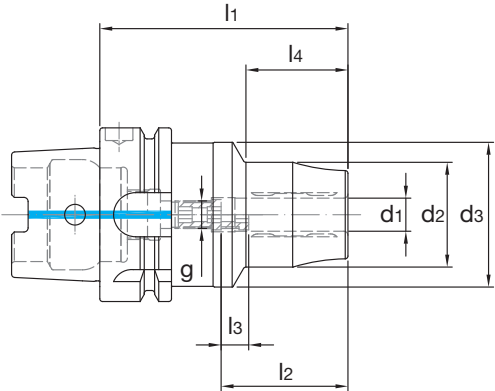
DIN 69893-1	Form A				
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91

TOOL HOLDERS







DIN
69893-1

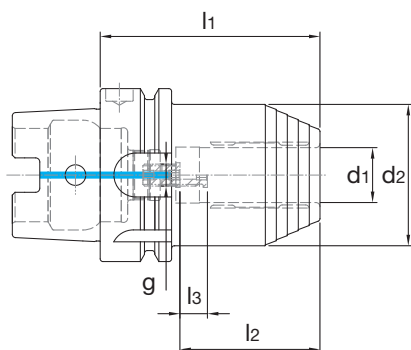
Form
A



G 2,5
25.000 rpm

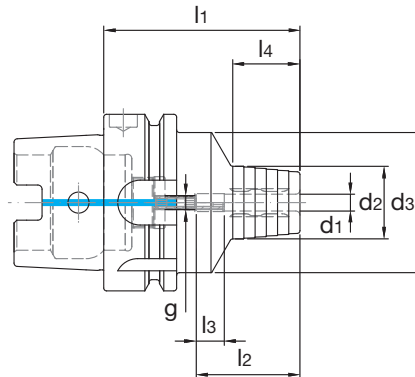
art.	HSK-A	d1	d2	d3	l1	l2	l3	l4	g	kg		€
HSK-A . 063 . HYF-S . 06 . 080	63	6	32	50	80	37	10	26	M5	1,1		573,00
HSK-A . 063 . HYF-S . 08 . 080	63	8	34	50	80	37	10	27	M6	1,1		573,00
HSK-A . 063 . HYF-S . 10 . 085	63	10	36	50	85	41	10	32	M8x1	1,2		573,00
HSK-A . 063 . HYF-S . 12 . 090	63	12	38	52,5	90	46	10	37	M10x1	1,3		573,00
HSK-A . 063 . HYF-S . 14 . 090	63	14	40	52,5	90	46	10	37	M10x1	1,3		573,00
HSK-A . 063 . HYF-S . 16 . 095	63	16	42	52,5	95	49	10	42	M12x1	1,5		573,00
HSK-A . 063 . HYF-S . 18 . 095	63	18	44	52,5	95	49	10	42	M12x1	1,5		573,00
HSK-A . 063 . HYF-S . 20 . 100	63	20	48	52,5	100	51	10	45	M16x1	1,5		573,00
HSK-A . 063 . HYF-S . 25 . 120	63	25	57	53	120	57	10	62	M16x1	2,1		573,00
HSK-A . 063 . HYF-S . 32 . 125	63	32	63	53	125	61	10	62	M16x1	2,3		573,00

HSK-A . 100 . HYF-S . 06 . 085	100	6	32	50	85	37	10	26	M5	2,8		768,00
HSK-A . 100 . HYF-S . 08 . 085	100	8	34	50	85	37	10	27	M6	2,8		768,00
HSK-A . 100 . HYF-S . 10 . 090	100	10	36	50	90	41	10	32	M8x1	2,9		768,00
HSK-A . 100 . HYF-S . 12 . 095	100	12	38	52,5	95	46	10	37	M10x1	2,9		768,00
HSK-A . 100 . HYF-S . 14 . 095	100	14	40	52,5	95	46	10	37	M10x1	2,9		768,00
HSK-A . 100 . HYF-S . 16 . 100	100	16	42	52,5	100	49	10	42	M12x1	3		768,00
HSK-A . 100 . HYF-S . 18 . 100	100	18	44	52,5	100	49	10	42	M12x1	3		768,00
HSK-A . 100 . HYF-S . 20 . 105	100	20	48	52,5	105	51	10	45	M16x1	3		768,00
HSK-A . 100 . HYF-S . 25 . 115	100	25	57	63	115	57	10	60	M16x1	3,8		768,00
HSK-A . 100 . HYF-S . 32 . 120	100	32	63	75	120	61	10	60	M16x1	4		768,00



G 2,5
25.000 rpm

art.	HSK-A	d1	d2		l1	l2	l3		g	kg			€
HSK-A . 063 . HY . 20 . 080	63	20	51,5		80	51	10		M8x1	1,5			309,00

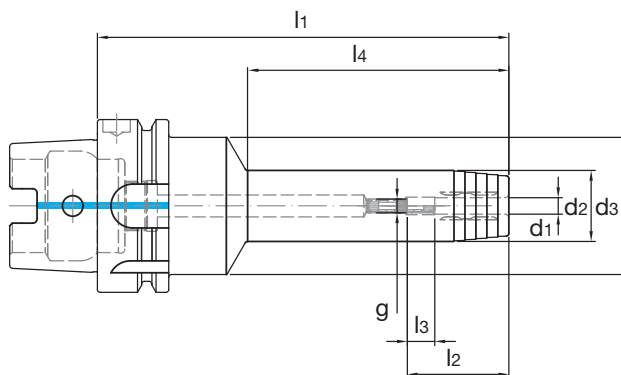


DIN
69893-1

Form
A

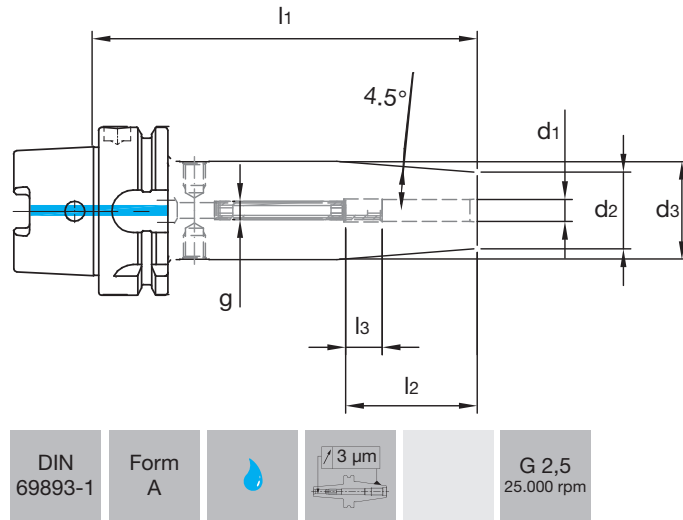
G 2,5
25.000 rpm

art.		HSK-A	d1	d2	d3	l1	l2	l3	l4	g	kg			€
HSK-A	.063 . HY-S .06 .070	63	6	26	50	70	37	10	24	M5	0,9			513,00
HSK-A	.063 . HY-S .08 .070	63	8	28	50	70	37	10	25	M6	0,9			513,00
HSK-A	.063 . HY-S .10 .080	63	10	30	50	80	41	10	35	M8x1	1			513,00
HSK-A	.063 . HY-S .12 .085	63	12	32	50	85	46	10	40	M10x1	1			513,00
HSK-A	.063 . HY-S .14 .085	63	14	34	50	85	46	10	40	M10x1	1,1			513,00
HSK-A	.063 . HY-S .16 .090	63	16	38	50	90	49	10	46	M12x1	1,2			513,00
HSK-A	.063 . HY-S .18 .090	63	18	40	50	90	49	10	47	M12x1	1,2			513,00
HSK-A	.063 . HY-S .20 .090	63	20	42	50	90	51	10	48	M16x1	1,2			513,00
HSK-A	.063 . HY-S .25 .120	63	25	57	53	120	57	10	63	M16x1	2,1			513,00
HSK-A	.063 . HY-S .32 .125	63	32	63	59	125	61	10	61	M16x1	2,3			513,00
HSK-A	.100 . HY-S .20 .105	100	20	42	50	105	51	10	59	M16x1	2,7			708,00
HSK-A	.100 . HY-S .32 .110	100	32	63	67	110	61	10	60	M16x1	3,5			708,00



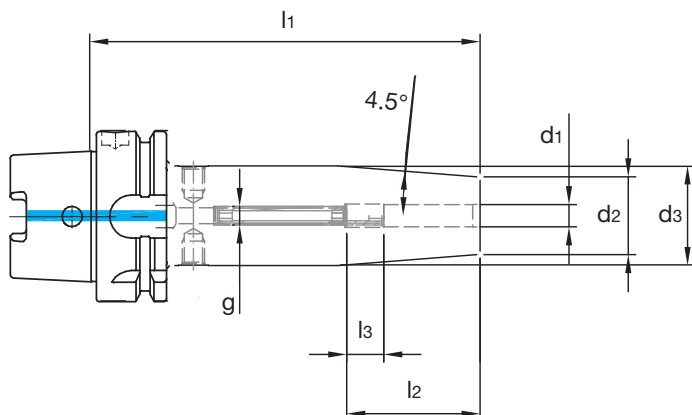
DIN 69893-1 Form A   3 µm  h6 G 2,5 25.000 rpm

art.		HSK-A	d1	d2	d3	l1	l2	l3	l4	g	kg			€
HSK-A	. 063 . HY-LS .06. 150	63	6	26	50	150	37	10	103	M5	1,7			917,00
HSK-A	. 063 . HY-LS .06. 200	63	6	26	50	200	37	10	153	M5	1,9			960,00
HSK-A	. 063 . HY-LS .08. 150	63	8	28	50	150	37	10	104	M6	1,7			917,00
HSK-A	. 063 . HY-LS .08. 200	63	8	28	50	200	37	10	154	M6	1,9			960,00
HSK-A	. 063 . HY-LS .10. 150	63	10	30	50	150	41	10	104	M8x1	1,7			917,00
HSK-A	. 063 . HY-LS .10. 200	63	10	30	50	200	41	10	154	M8x1	1,9			960,00
HSK-A	. 063 . HY-LS .12. 150	63	12	32	50	150	46	10	105	M10x1	1,7			917,00
HSK-A	. 063 . HY-LS .12. 200	63	12	32	50	200	46	10	155	M10x1	1,9			960,00
HSK-A	. 063 . HY-LS .14. 150	63	14	34	50	150	46	10	105	M10x1	1,9			917,00
HSK-A	. 063 . HY-LS .14. 200	63	14	34	50	200	46	10	155	M10x1	2,1			960,00
HSK-A	. 063 . HY-LS .16. 150	63	16	38	50	150	49	10	106	M12x1	2,0			917,00
HSK-A	. 063 . HY-LS .16. 200	63	16	38	50	200	49	10	156	M12x1	2,3			960,00
HSK-A	. 063 . HY-LS .18. 150	63	18	40	50	150	49	10	107	M12x1	2,1			917,00
HSK-A	. 063 . HY-LS .18. 200	63	18	40	50	200	49	10	157	M12x1	2,4			960,00
HSK-A	. 063 . HY-LS .20. 150	63	20	42	50	150	51	10	108	M16x1	2,1			917,00
HSK-A	. 063 . HY-LS .20. 200	63	20	42	50	200	51	10	158	M16x1	2,4			960,00



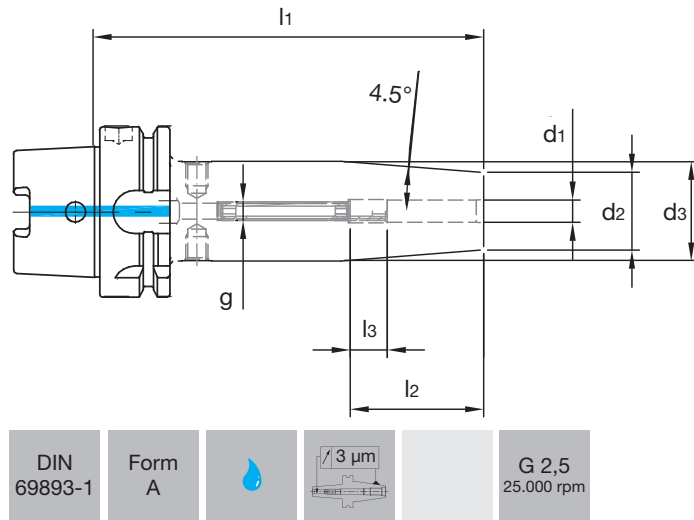
art.	HSK-A	d1	d2	d3	l1	l2	l3		g	kg	Form screw		€
HSK-A .040 . SF .03 .065	40	3	12	17	65	-	-		-	0,3	B		279,00
HSK-A .040 . SF .04 .065	40	4	12	17	65	-	-		-	0,3	B		258,00
HSK-A .040 . SF .05 .065	40	5	12	17	65	-	-		-	0,3	B		248,00
HSK-A .040 . SF .06 .080	40	6	21	31	80	36	10		M 5	0,5	B		235,00
HSK-A .040 . SF .08 .080	40	8	21	31	80	36	10		M 6	0,5	B		235,00
HSK-A .040 . SF .10 .080	40	10	24	34	80	41	10		M 8 x 1	0,5	B		235,00
HSK-A .040 . SF .12 .090	40	12	24	34	90	47	10		M10 x 1	0,5	B		235,00
HSK-A .040 . SF .14 .090	40	14	27	34	90	47	10		M10 x 1	0,6	B		235,00
HSK-A .040 . SF .16 .090	40	16	27	34	90	50	10		M12 x 1	0,6	B		235,00

HSK-A	.050	SF	.03	.065	50	3	12	17	65	-	-	-	0,4	B		321,00
HSK-A	.050	SF	.04	.065	50	4	12	17	65	-	-	-	0,4	B		313,00
HSK-A	.050	SF	.05	.065	50	5	12	17	65	-	-	-	0,4	B		300,00
HSK-A	.050	SF	.06	.080	50	6	21	30	80	36	10	M 5	0,6	B		271,00
HSK-A	.050	SF	.08	.080	50	8	21	30	80	36	10	M 6	0,6	B		271,00
HSK-A	.050	SF	.10	.085	50	10	24	33	85	41	10	M 8 x 1	0,7	B		271,00
HSK-A	.050	SF	.12	.090	50	12	24	34	90	47	10	M10 x 1	0,7	B		271,00
HSK-A	.050	SF	.14	.090	50	14	27	37	90	47	10	M10 x 1	0,8	B		271,00
HSK-A	.050	SF	.16	.095	50	16	27	38	95	50	10	M12 x 1	0,8	B		271,00
HSK-A	.050	SF	.18	.095	50	18	33	42	95	50	10	M12 x 1	0,9	B		271,00
HSK-A	.050	SF	.20	.100	50	20	33	42	100	52	10	M16 x 1	0,9	B		271,00

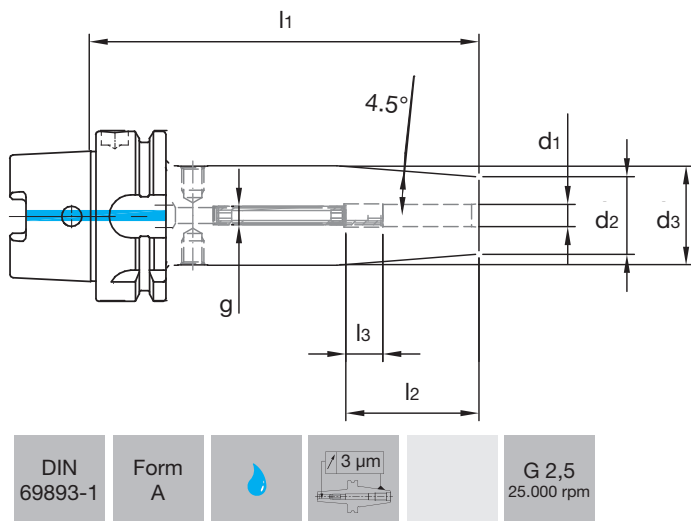


DIN 69893-1	Form A			G 2,5 25,000 rpm
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art.	HSK-A	d1	d2	d3	l1	l2	l3	g	kg	Form screw	€
HSK-A .063 .SF .03 .080	63	3	10	15	80	28	16	M6	0,7	A	184,00
HSK-A .063 .SF .03 .120	63	3	10	20	120	-	-	-	0,9	A	238,00
HSK-A .063 .SF .03 .160	63	3	10	20	160	-	-	-	1,0	A	263,00
HSK-A .063 .SF .04 .080	63	4	15	22	80	28	12	M6	0,7	A	184,00
HSK-A .063 .SF .04 .120	63	4	15	22	120	-	-	-	0,9	A	238,00
HSK-A .063 .SF .04 .160	63	4	15	22	160	-	-	-	1,0	A	263,00
HSK-A .063 .SF .05 .080	63	5	15	22	80	30	10	M6	0,7	A	184,00
HSK-A .063 .SF .05 .120	63	5	15	22	120	-	-	-	0,9	A	238,00
HSK-A .063 .SF .05 .160	63	5	15	22	160	-	-	-	1,0	A	263,00
HSK-A .063 .SF .06 .080	63	6	21	27	80	36	10	M5	0,8	A	158,00
HSK-A .063 .SF .06 .120	63	6	21	27	120	36	10	M5	1,1	A	215,00
HSK-A .063 .SF .06 .160	63	6	21	27	160	36	10	M5	1,3	A	251,00
HSK-A .063 .SF .06 .200	63	6	21	27	200	36	10	M5	1,4	A	298,00
HSK-A .063 .SF .08 .080	63	8	21	27	80	36	10	M6	0,8	A	159,00
HSK-A .063 .SF .08 .120	63	8	21	27	120	36	10	M6	1,1	A	215,00
HSK-A .063 .SF .08 .160	63	8	21	27	160	36	10	M6	1,3	A	251,00
HSK-A .063 .SF .08 .200	63	8	21	27	200	36	10	M6	1,4	A	298,00
HSK-A .063 .SF .10 .085	63	10	24	32	85	41	10	M10 x 1	0,9	A	159,00
HSK-A .063 .SF .10 .120	63	10	24	32	120	41	10	M8 x 1	1,2	A	215,00
HSK-A .063 .SF .10 .160	63	10	24	32	160	41	10	M8 x 1	1,5	A	251,00
HSK-A .063 .SF .10 .200	63	10	24	32	200	41	10	M8 x 1	1,7	A	298,00
HSK-A .063 .SF .12 .090	63	12	21	32	90	47	10	M10 x 1	0,9	A	159,00
HSK-A .063 .SF .12 .120	63	12	24	32	120	47	10	M10 x 1	1,2	A	215,00
HSK-A .063 .SF .12 .160	63	12	24	32	160	47	10	M10 x 1	1,5	A	251,00
HSK-A .063 .SF .12 .200	63	12	24	32	200	47	10	M10 x 1	1,7	A	298,00
HSK-A .063 .SF .14 .090	63	14	27	34	90	47	10	M10 x 1	0,9	A	159,00
HSK-A .063 .SF .14 .120	63	14	27	34	120	47	10	M10 x 1	1,2	A	215,00
HSK-A .063 .SF .14 .160	63	14	27	34	160	47	10	M10 x 1	1,6	A	251,00
HSK-A .063 .SF .14 .200	63	14	27	34	200	47	10	M10 x 1	1,9	A	298,00
HSK-A .063 .SF .16 .095	63	16	27	34	95	50	10	M12 x 1	1	A	159,00
HSK-A .063 .SF .16 .120	63	16	27	34	120	50	10	M12 x 1	1,1	A	215,00
HSK-A .063 .SF .16 .160	63	16	27	34	160	50	10	M12 x 1	1,4	A	251,00
HSK-A .063 .SF .16 .200	63	16	27	34	200	50	10	M12 x 1	1,7	A	298,00
HSK-A .063 .SF .18 .095	63	18	33	42	95	50	10	M12 x 1	1,1	A	159,00
HSK-A .063 .SF .18 .120	63	18	33	42	120	50	10	M12 x 1	1,3	A	215,00
HSK-A .063 .SF .18 .160	63	18	33	42	160	50	10	M12 x 1	1,6	A	251,00
HSK-A .063 .SF .18 .200	63	18	33	42	200	50	10	M12 x 1	2,3	A	298,00
HSK-A .063 .SF .20 .100	63	20	33	42	100	52	10	M16 x 1	1,1	A	159,00
HSK-A .063 .SF .20 .120	63	20	33	42	120	52	10	M16 x 1	1,3	A	215,00
HSK-A .063 .SF .20 .160	63	20	33	42	160	52	10	M16 x 1	1,6	A	251,00
HSK-A .063 .SF .20 .200	63	20	33	42	200	52	10	M16 x 1	2,3	A	298,00
HSK-A .063 .SF .25 .115	63	25	44	53	115	58	10	M16 x 1	1,6	A	159,00
HSK-A .063 .SF .25 .120	63	25	44	53	120	58	10	M16 x 1	1,7	A	215,00
HSK-A .063 .SF .25 .160	63	25	44	53	160	62	10	M16 x 1	2	A	251,00
HSK-A .063 .SF .25 .200	63	25	44	53	200	61	10	M16 x 1	3,2	A	298,00
HSK-A .063 .SF .32 .120	63	32	44	53	120	62	10	M16 x 1	1,6	A	159,00
HSK-A .063 .SF .32 .160	63	32	44	53	160	62	10	M16 x 1	1,9	A	251,00
HSK-A .063 .SF .32 .200	63	32	44	53	200	62	10	M16 x 1	3,0	A	298,00



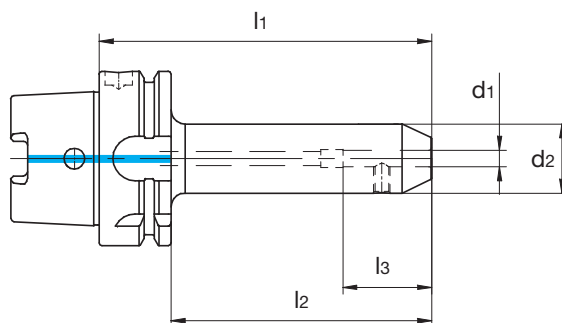
art.	HSK-A	d1	d2	d3	l1	l2	l3		g	kg	Form screw		€
HSK-A .080 . SF .06 .085	80	6	21	30	85	36	10		M 5	1.3	B		365,00
HSK-A .080 . SF .08 .085	80	8	21	30	85	36	10		M 6	1.3	B		365,00
HSK-A .080 . SF .10 .090	80	10	24	34	90	41	10		M 8 x 1	1.4	B		365,00
HSK-A .080 . SF .12 .095	80	12	24	35	95	47	10		M10 x 1	1.4	B		365,00
HSK-A .080 . SF .14 .095	80	14	27	38	95	47	10		M10 x 1	1.5	B		365,00
HSK-A .080 . SF .16 .100	80	16	27	39	100	50	10		M12 x 1	1.5	B		365,00
HSK-A .080 . SF .18 .100	80	18	33	45	100	50	10		M12 x 1	1.6	B		365,00
HSK-A .080 . SF .20 .105	80	20	33	45	105	52	10		M16 x 1	1.7	B		365,00
HSK-A .080 . SF .25 .115	80	25	44	53	115	58	10		M16 x 1	2.1	B		365,00
HSK-A .080 . SF .32 .120	80	32	44	56	120	61	10		M16 x 1	2.1	B		365,00



art.	HSK-A	d1	d2	d3	l1	l2	l3	g	kg	Form screw	€
HSK-A . 100 . SF .06. 085	100	6	21	27	85	36	10	M 5	2,2	A	257,00
HSK-A . 100 . SF .06. 120	100	6	21	27	120	36	10	M 5	2,4	A	330,00
HSK-A . 100 . SF .06. 160	100	6	21	27	160	36	10	M 5	2,6	A	371,00
HSK-A . 100 . SF .06. 200	100	6	21	27	200	36	10	M 5	2,7	A	434,00
HSK-A . 100 . SF .08. 085	100	8	21	27	85	36	10	M 6	2,2	A	257,00
HSK-A . 100 . SF .08. 120	100	8	21	27	120	36	10	M 6	2,4	A	330,00
HSK-A . 100 . SF .08. 160	100	8	21	27	160	36	10	M 6	2,6	A	371,00
HSK-A . 100 . SF .08. 200	100	8	21	27	200	36	10	M 6	2,7	A	434,00
HSK-A . 100 . SF .10. 090	100	10	24	32	90	41	10	M 8 x 1	2,3	A	257,00
HSK-A . 100 . SF .10. 120	100	10	24	32	120	41	10	M 8 x 1	2,5	A	330,00
HSK-A . 100 . SF .10. 160	100	10	24	32	160	41	10	M 8 x 1	2,7	A	371,00
HSK-A . 100 . SF .10. 200	100	10	24	32	200	41	10	M 8 x 1	2,9	A	434,00
HSK-A . 100 . SF .12. 095	100	12	24	32	95	47	10	M10 x 1	2,3	A	257,00
HSK-A . 100 . SF .12. 120	100	12	24	32	120	47	10	M10 x 1	2,5	A	330,00
HSK-A . 100 . SF .12. 160	100	12	24	32	160	47	10	M10 x 1	2,7	A	371,00
HSK-A . 100 . SF .12. 200	100	12	24	32	200	47	10	M10 x 1	2,7	A	434,00
HSK-A . 100 . SF .14. 095	100	14	27	34	95	47	10	M10 x 1	2,3	A	257,00
HSK-A . 100 . SF .14. 120	100	14	27	34	120	47	10	M10 x 1	2,5	A	330,00
HSK-A . 100 . SF .14. 160	100	14	27	34	160	47	10	M10 x 1	2,7	A	371,00
HSK-A . 100 . SF .14. 200	100	14	27	34	200	47	10	M10 x 1	3,0	A	434,00
HSK-A . 100 . SF .16. 100	100	16	27	34	100	50	10	M12 x 1	2,4	A	257,00
HSK-A . 100 . SF .16. 120	100	16	27	34	120	50	10	M12 x 1	2,6	A	330,00
HSK-A . 100 . SF .16. 160	100	16	27	34	160	50	10	M12 x 1	2,9	A	371,00
HSK-A . 100 . SF .16. 200	100	16	27	34	200	50	10	M12 x 1	3,0	A	434,00
HSK-A . 100 . SF .18. 100	100	18	33	42	100	50	10	M12 x 1	2,5	A	257,00
HSK-A . 100 . SF .18. 120	100	18	33	42	120	50	10	M12 x 1	2,7	A	330,00
HSK-A . 100 . SF .18. 160	100	18	33	42	160	50	10	M12 x 1	3,0	A	371,00
HSK-A . 100 . SF .18. 200	100	18	33	42	200	50	10	M12 x 1	3,6	A	434,00
HSK-A . 100 . SF .20. 105	100	20	33	42	105	52	10	M16 x 1	2,5	A	257,00
HSK-A . 100 . SF .20. 120	100	20	33	42	120	52	10	M16 x 1	3,0	A	330,00
HSK-A . 100 . SF .20. 160	100	20	33	42	160	52	10	M16 x 1	3,4	A	371,00
HSK-A . 100 . SF .20. 200	100	20	33	42	200	52	10	M16 x 1	3,6	A	434,00
HSK-A . 100 . SF .25. 115	100	25	44	53	115	58	10	M16 x 1	3,0	A	257,00
HSK-A . 100 . SF .25. 120	100	25	44	53	120	58	10	M16x1	3,2	A	330,00
HSK-A . 100 . SF .25. 160	100	25	44	53	160	58	10	M16 x 1	3,6	A	371,00
HSK-A . 100 . SF .25. 200	100	25	44	53	200	58	10	M16 x 1	4,5	A	434,00
HSK-A . 100 . SF .32. 120	100	32	44	53	120	62	10	M16 x 1	3,0	A	257,00
HSK-A . 100 . SF .32. 160	100	32	44	53	160	62	10	M16 x 1	3,3	A	371,00
HSK-A . 100 . SF .32. 200	100	32	44	53	200	62	10	M16 x 1	4,4	A	434,00



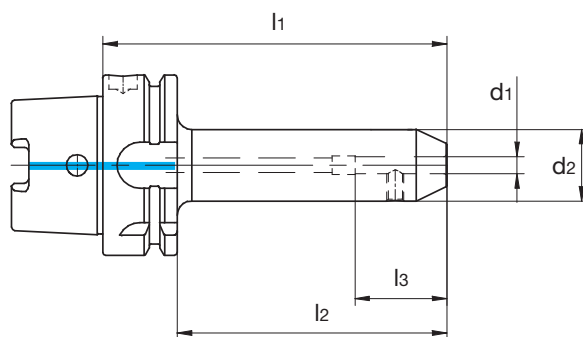
HSK-A	.100	SF-S	.06	120	100	6	15	30	120	36	10		M5	2,3	B		384,00
HSK-A	.100	SF-S	.06	160	100	6	15	30	160	36	10		M5	2,5	B		416,00
HSK-A	.100	SF-S	.06	200	100	6	15	30	200	36	10		M5	2,7	B		462,00
HSK-A	.100	SF-S	.08	120	100	8	15	30	120	36	10		M6	2,3	B		384,00
HSK-A	.100	SF-S	.08	160	100	8	15	30	160	36	10		M6	2,5	B		416,00
HSK-A	.100	SF-S	.08	200	100	8	15	30	200	36	10		M6	2,7	B		462,00
HSK-A	.100	SF-S	.10	120	100	10	18	33	120	41	10		M8x1	2,4	B		384,00
HSK-A	.100	SF-S	.10	160	100	10	18	32	160	41	10		M8x1	2,6	B		416,00
HSK-A	.100	SF-S	.10	200	100	10	18	32	200	41	10		M8x1	2,8	B		462,00
HSK-A	.100	SF-S	.12	120	100	12	18	33	120	47	10		M10x1	2,4	B		384,00
HSK-A	.100	SF-S	.12	160	100	12	18	32	160	47	10		M10x1	2,6	B		416,00
HSK-A	.100	SF-S	.12	200	100	12	18	32	200	47	10		M10x1	2,8	B		462,00



DIN 69893-1	Form A			G 6,3 15.000 rpm
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art.	HSK-A	d1	d2	l1	l2	l3				Tol./d1	kg			€
HSK-A . 040 . W . 06 . 060	40	6	25	60	40	35				+ 0.005	0,6			193,00
HSK-A . 040 . W . 08 . 060	40	8	28	60	40	35				+ 0.005	0,7			193,00
HSK-A . 040 . W . 10 . 060	40	10	35	60	40	39				+ 0.005	0,7			193,00
HSK-A . 040 . W . 12 . 070	40	12	42	70	50	44				+ 0.005	1,0			193,00
HSK-A . 040 . W . 14 . 075	40	14	44	75	55	44				+ 0.005	1,1			193,00
HSK-A . 040 . W . 16 . 075	40	16	48	75	55	47				+ 0.005	1,1			193,00

HSK-A	.050	W	.06	.065	50	6	25	65	39	35			+ 0.005	0,7			193,00
HSK-A	.050	W	.08	.065	50	8	28	65	39	35			+ 0.005	0,8			193,00
HSK-A	.050	W	.10	.065	50	10	35	65	39	39			+ 0.005	0,8			193,00
HSK-A	.050	W	.12	.080	50	12	42	80	54	44			+ 0.005	0,9			193,00
HSK-A	.050	W	.14	.080	50	14	44	80	54	44			+ 0.005	1,0			193,00
HSK-A	.050	W	.16	.080	50	16	48	80	54	47			+ 0.005	1,0			193,00
HSK-A	.050	W	.18	.080	50	18	50	80	54	47			+ 0.005	1,0			193,00
HSK-A	.050	W	.20	.080	50	20	52	80	54	49			+ 0.007	1,0			193,00


DIN
69893-1

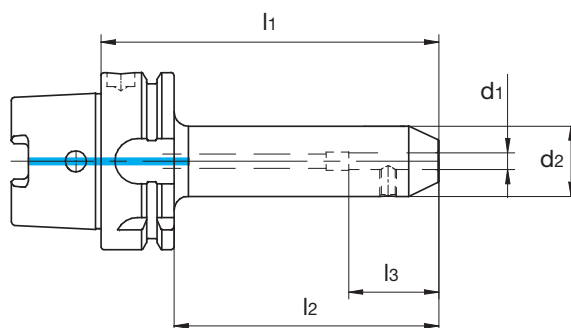
Form
A

G 6,3
15.000 rpm

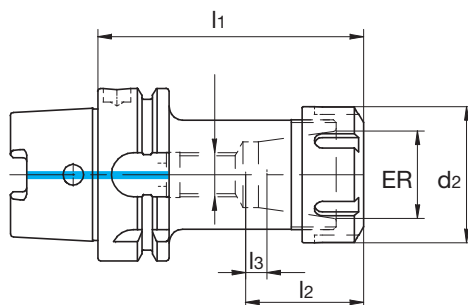
HSK-A

art.	HSK-A	d1	d2	l1	l2	l3				Tol./d1	kg			€
HSK-A . 063 . W . 06 . 065	63	6	25	65	39	35				+ 0.005	0,8			138,00
HSK-A . 063 . W . 06 . 100	63	6	18	100	-	-				-	-			231,00
HSK-A . 063 . W . 06 . 120	63	6	25	120	94	35				+ 0.005	1,0			168,00
HSK-A . 063 . W . 08 . 065	63	8	28	65	39	35				+ 0.005	0,8			138,00
HSK-A . 063 . W . 08 . 100	63	8	22	100	-	-				-	-			222,00
HSK-A . 063 . W . 08 . 120	63	8	28	120	94	35				+ 0.005	1,1			168,00
HSK-A . 063 . W . 08 . 160	63	8	22	160	-	-				-	-			266,00
HSK-A . 063 . W . 10 . 065	63	10	35	65	39	39				+ 0.005	0,9			138,00
HSK-A . 063 . W . 10 . 100	63	10	30	100	-	-				-	-			222,00
HSK-A . 063 . W . 10 . 120	63	10	35	120	94	39				+ 0.005	1,3			168,00
HSK-A . 063 . W . 10 . 160	63	10	30	160	-	-				-	-			266,00
HSK-A . 063 . W . 12 . 080	63	12	42	80	54	44				+ 0.005	1,2			138,00
HSK-A . 063 . W . 12 . 100	63	12	34	100	-	-				-	-			222,00
HSK-A . 063 . W . 12 . 120	63	12	42	120	94	44				+ 0.005	1,6			168,00
HSK-A . 063 . W . 12 . 160	63	12	34	160	-	-				-	-			266,00
HSK-A . 063 . W . 14 . 080	63	14	44	80	54	44				+ 0.005	1,2			138,00
HSK-A . 063 . W . 14 . 100	63	14	36	100	-	-				-	-			222,00
HSK-A . 063 . W . 14 . 120	63	14	44	120	94	44				+ 0.005	1,7			168,00
HSK-A . 063 . W . 14 . 160	63	14	36	160	-	-				-	-			266,00
HSK-A . 063 . W . 16 . 080	63	16	48	80	54	47				+ 0.005	1,3			138,00
HSK-A . 063 . W . 16 . 100	63	16	42	100	-	-				-	-			222,00
HSK-A . 063 . W . 16 . 120	63	16	48	120	94	47				+ 0.005	1,8			168,00
HSK-A . 063 . W . 16 . 160	63	16	42	160	-	-				-	-			266,00
HSK-A . 063 . W . 18 . 080	63	18	50	80	54	47				+ 0.005	1,3			138,00
HSK-A . 063 . W . 18 . 120	63	18	50	120	94	47				+ 0.005	1,9			168,00
HSK-A . 063 . W . 20 . 080	63	20	52	80	54	49				+ 0.007	1,4			138,00
HSK-A . 063 . W . 20 . 100	63	20	45	100	-	-				-	-			222,00
HSK-A . 063 . W . 20 . 120	63	20	52	120	94	49				+ 0.007	2,0			168,00
HSK-A . 063 . W . 20 . 160	63	20	45	160	-	-				-	-			266,00
HSK-A . 063 . W . 25 . 110	63	25	65	110	84	54				+ 0.007	2,3			168,00
HSK-A . 063 . W . 25 . 160	63	25	65	160	-	-				-	-			266,00
HSK-A . 063 . W . 32 . 110	63	32	72	110	84	58				+ 0.007	2,5			168,00
HSK-A . 063 . W . 32 . 160	63	32	72	160	-	-				-	-			278,00

Coolant tube pag. 174
Adduttore refrigerante pag. 174

DIN
69893-1Form
AG 6,3
15.000 rpm

art.	HSK-A	d1	d2	l1	l2	l3				Tol./d1	kg			€
HSK-A . 080 . W . 06 . 080	80	6	25	80	54	35				+ 0.005	1,5			258,00
HSK-A . 080 . W . 08 . 080	80	8	28	80	54	35				+ 0.005	1,5			258,00
HSK-A . 080 . W . 10 . 080	80	10	35	80	54	39				+ 0.005	1,7			258,00
HSK-A . 080 . W . 12 . 080	80	12	42	80	54	44				+ 0.005	1,8			258,00
HSK-A . 080 . W . 14 . 080	80	14	44	80	54	44				+ 0.005	1,9			258,00
HSK-A . 080 . W . 16 . 100	80	16	48	100	74	47				+ 0.005	2,1			258,00
HSK-A . 080 . W . 18 . 100	80	18	50	100	74	47				+ 0.005	2,3			258,00
HSK-A . 080 . W . 20 . 100	80	20	52	100	74	49				+ 0.007	2,4			258,00
HSK-A . 080 . W . 25 . 100	80	25	65	100	74	54				+ 0.007	2,9			300,00
HSK-A . 080 . W . 32 . 110	80	32	72	110	84	58				+ 0.007	3,4			321,00
HSK-A . 100 . W . 06 . 080	100	6	25	80	51	35				+ 0.005	2,0			200,00
HSK-A . 100 . W . 06 . 090	100	6	25	90	-	-				-	-			245,00
HSK-A . 100 . W . 06 . 160	100	6	25	160	131	35				+ 0.005	2,5			308,00
HSK-A . 100 . W . 08 . 080	100	8	28	80	51	35				+ 0.005	2,2			200,00
HSK-A . 100 . W . 08 . 090	100	8	28	90	-	-				-	-			239,00
HSK-A . 100 . W . 08 . 160	100	8	28	160	131	35				+ 0.005	2,6			308,00
HSK-A . 100 . W . 10 . 080	100	10	35	80	51	39				+ 0.005	2,4			200,00
HSK-A . 100 . W . 10 . 090	100	10	35	90	-	-				-	-			239,00
HSK-A . 100 . W . 10 . 160	100	10	35	160	131	39				+ 0.005	3,0			308,00
HSK-A . 100 . W . 12 . 080	100	12	42	80	51	44				+ 0.005	2,5			200,00
HSK-A . 100 . W . 12 . 100	100	12	42	100	-	-				-	-			239,00
HSK-A . 100 . W . 12 . 160	100	12	42	160	131	44				+ 0.005	3,4			308,00
HSK-A . 100 . W . 14 . 080	100	14	44	80	51	44				+ 0.005	2,5			200,00
HSK-A . 100 . W . 14 . 100	100	14	44	100	-	-				-	-			239,00
HSK-A . 100 . W . 14 . 160	100	14	44	160	131	44				+ 0.005	3,5			308,00
HSK-A . 100 . W . 16 . 100	100	16	48	100	71	47				+ 0.005	2,9			200,00
HSK-A . 100 . W . 16 . 160	100	16	48	160	131	47				+ 0.005	3,8			308,00
HSK-A . 100 . W . 18 . 100	100	18	50	100	71	47				+ 0.005	2,9			200,00
HSK-A . 100 . W . 18 . 160	100	18	50	160	131	47				+ 0.005	4,0			308,00
HSK-A . 100 . W . 20 . 100	100	20	52	100	71	49				+ 0.007	3,0			200,00
HSK-A . 100 . W . 20 . 110	100	20	52	110	-	-				-	-			239,00
HSK-A . 100 . W . 20 . 160	100	20	52	160	131	49				+ 0.007	4,1			308,00
HSK-A . 100 . W . 25 . 100	100	25	65	100	71	54				+ 0.007	3,5			230,00
HSK-A . 100 . W . 25 . 120	100	25	65	120	-	-				-	-			256,00
HSK-A . 100 . W . 25 . 160	100	25	65	160	131	54				+ 0.007	5,0			354,00
HSK-A . 100 . W . 32 . 100	100	32	72	100	71	58				+ 0.007	3,7			246,00
HSK-A . 100 . W . 32 . 120	100	32	72	120	-	-				-	-			263,00
HSK-A . 100 . W . 32 . 160	100	32	72	160	131	58				+ 0.007	5,6			369,00
HSK-A . 100 . W . 40 . 120	100	40	80	120	191	75				+ 0.007	5,9			293,00
HSK-A . 100 . W . 50 . 130	100	50	100	130	-	-				-	-			329,00


DIN
69893-1

Form
A

G 6,3
15.000 rpm

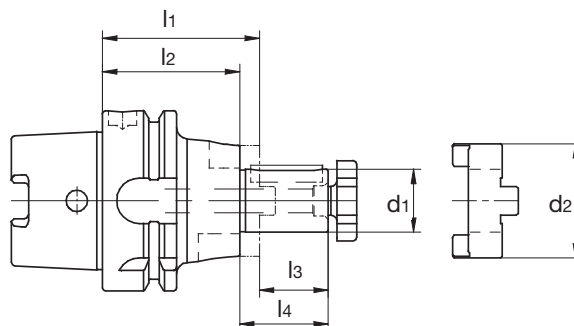
HSK-A

art.	HSK-A	ER		d2	l1	l2	l3		kg		€
HSK-A . 040 . ER-NT . 25 . 080	40	ER 25 (1 - 16)		42	80	36	10		0,5		200,00
HSK-A . 050 . ER-NT . 25 . 100	50	ER 25 (1 - 16)		42	100	36	10		1,2		200,00
HSK-A . 063 . ER-NT . 16 . 100	63	ER 16 (1 - 10)		32	100	-	-		-		138,00
HSK-A . 063 . ER-NT . 25 . 075	63	ER 25 (1 - 16)		42	75	36	10		0,9		158,00
HSK-A . 063 . ER-NT . 25 . 100	63	ER 25 (1 - 16)		42	100	36	10		1,2		164,00
HSK-A . 063 . ER-NT . 25 . 160	63	ER 25 (1 - 16)		42	160	36	10		1,8		186,00
HSK-A . 063 . ER-NT . 32 . 075	63	ER 32 (2 - 20)		50	75	40	10		1,0		158,00
HSK-A . 063 . ER-NT . 32 . 100	63	ER 32 (2 - 20)		50	100	40	10		1,2		164,00
HSK-A . 063 . ER-NT . 32 . 160	63	ER 32 (2 - 20)		50	160	40	10		1,7		192,00
HSK-A . 063 . ER-NT . 40 . 090	63	ER 40 (3 - 26)		63	90	58	10		1,4		173,00
HSK-A . 063 . ER-NT . 40 . 120	63	ER 40 (3 - 26)		63	120	58	10		1,7		179,00
HSK-A . 080 . ER-NT . 25 . 100	80	ER 25 (1 - 16)		42	100	36	10		3,0		260,00
HSK-A . 080 . ER-NT . 32 . 100	80	ER 32 (2 - 20)		50	100	40	10		2,7		260,00
HSK-A . 080 . ER-NT . 40 . 120	80	ER 40 (3 - 26)		63	120	58	10		3,2		271,00
HSK-A . 100 . ER-NT . 25 . 100	100	ER 25 (1 - 16)		42	100	36	10		2,6		200,00
HSK-A . 100 . ER-NT . 25 . 160	100	ER 25 (1 - 16)		42	160	36	10		3,2		245,00
HSK-A . 100 . ER-NT . 32 . 100	100	ER 32 (2 - 20)		50	100	40	10		2,7		200,00
HSK-A . 100 . ER-NT . 32 . 160	100	ER 32 (2 - 20)		50	160	40	10		3,6		245,00
HSK-A . 100 . ER-NT . 40 . 120	100	ER 40 (3 - 26)		63	120	58	10		3,4		207,00
HSK-A . 100 . ER-NT . 40 . 160	100	ER 40 (3 - 26)		63	160	58	10		4,2		245,00



art.	HSK-A	ER		d2	d3	l1	l2		g	kg			€
HSK-A . 040 . ER-LT . 16 . 080	40	ER 16 (0.5 - 10)		32	28	80	27		M10	0,4			200,00
HSK-A . 050 . ER-LT . 16 . 100	50	ER 16 (0.5 - 10)		32	28	100	27		M10	0,6			200,00
HSK-A . 063 . ER-LT . 16 . 075	63	ER 16 (0.5 - 10)		32	28	75	27		M10	0,8			158,00
HSK-A . 063 . ER-LT . 16 . 100	63	ER 16 (0.5 - 10)		32	28	100	27		M10	1,0			162,00
HSK-A . 063 . ER-LT . 16 . 160	63	ER 16 (0.5 - 10)		32	28	160	27		M10	1,7			183,00
HSK-A . 100 . ER-LT . 16 . 100	100	ER 16 (0.5 - 10)		32	28	100	27		M12	2,9			212,00
HSK-A . 100 . ER-LT . 16 . 160	100	ER 16 (0.5 - 10)		32	28	160	27		M12	3,4			252,00

Coolant tube pag. 174 - ER Collets pag. 162 - Clamping keys for ER Clamping nuts pag. 180
 Clamping nuts pag. 173
 Adduttore refrigerante pag. 174 - Pinze ER pag. 162 - Chiave per ghiera pag. 180
 Ghiera pag. 173



DIN
69893-1

Form
A



G 6,3
15.000 rpm

HSK-A

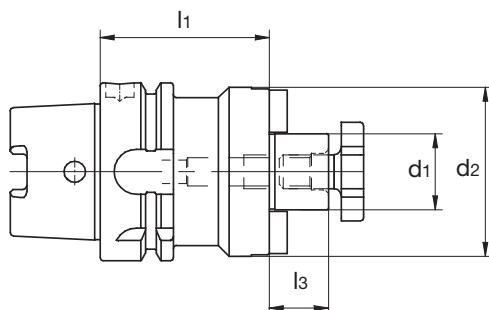
art.	HSK-A	d1	d2		l1	l2	l3	l4		kg		€
HSK-A . 050 . SM . 16 . 050	50	16	32		50	40	17	27		0,7		229,00
HSK-A . 050 . SM . 22 . 050	50	22	40		50	38	19	31		0,8		229,00
HSK-A . 050 . SM . 27 . 065	50	27	48		65	53	21	33		1,0		237,00
HSK-A . 050 . SM . 32 . 065	50	32	58		65	51	24	38		1,2		248,00
HSK-A . 063 . SM . 16 . 080	63	16	32		60	50	17	27		0,9		164,00
HSK-A . 063 . SM . 16 . 100	63	16	32		100	90	17	27		1,2		179,00
HSK-A . 063 . SM . 16 . 160	63	16	32		160	150	17	27		2,0		195,00
HSK-A . 063 . SM . 22 . 060	63	22	40		60	48	19	31		1,0		164,00
HSK-A . 063 . SM . 22 . 100	63	22	40		100	88	19	31		1,5		179,00
HSK-A . 063 . SM . 22 . 160	63	22	40		160	148	19	31		2,2		195,00
HSK-A . 063 . SM . 27 . 060	63	27	48		60	48	21	33		1,1		164,00
HSK-A . 063 . SM . 27 . 100	63	27	48		100	88	21	33		1,6		179,00
HSK-A . 063 . SM . 27 . 160	63	27	48		160	148	21	33		2,4		195,00
HSK-A . 063 . SM . 32 . 060	63	32	58		60	46	24	38		1,2		177,00
HSK-A . 063 . SM . 32 . 100	63	32	58		100	86	24	38		2,0		195,00
HSK-A . 063 . SM . 32 . 160	63	32	58		160	146	24	38		3,2		213,00
HSK-A . 063 . SM . 40 . 070	63	40	70		70	56	27	41		1,5		209,00
HSK-A . 063 . SM . 40 . 100	63	40	70		100	86	27	41		2,4		209,00
HSK-A . 063 . SM . 40 . 160	63	40	70		160	146	27	41		4,2		233,00
HSK-A . 080 . SM . 16 . 060	80	16	32		60	50	17	27		1,5		298,00
HSK-A . 080 . SM . 22 . 060	80	22	40		60	48	19	31		1,8		298,00
HSK-A . 080 . SM . 27 . 060	80	27	48		60	48	21	33		2,0		307,00
HSK-A . 080 . SM . 32 . 060	80	32	58		60	46	24	38		2,4		326,00
HSK-A . 080 . SM . 40 . 070	80	40	70		70	56	27	41		2,9		347,00
HSK-A . 080 . SM . 50 . 080	80	50	90		80	64	30	46		3,3		378,00
HSK-A . 100 . SM . 16 . 060	100	16	32		60	50	17	27		2,0		228,00
HSK-A . 100 . SM . 16 . 100	100	16	32		100	90	17	27		2,6		246,00
HSK-A . 100 . SM . 16 . 160	100	16	32		160	150	17	27		3,4		269,00
HSK-A . 100 . SM . 22 . 060	100	22	40		60	48	19	31		2,3		228,00
HSK-A . 100 . SM . 22 . 100	100	22	40		100	88	19	31		2,8		246,00
HSK-A . 100 . SM . 22 . 160	100	22	40		160	148	19	31		3,9		269,00
HSK-A . 100 . SM . 27 . 060	100	27	48		60	48	21	33		2,4		323,00
HSK-A . 100 . SM . 27 . 100	100	27	48		100	88	21	33		3,1		249,00
HSK-A . 100 . SM . 27 . 160	100	27	48		160	148	21	33		3,8		272,00
HSK-A . 100 . SM . 32 . 060	100	32	58		60	46	24	38		2,5		248,00
HSK-A . 100 . SM . 32 . 100	100	32	58		100	86	24	38		3,5		264,00
HSK-A . 100 . SM . 32 . 160	100	32	58		160	146	24	38		4,5		288,00
HSK-A . 100 . SM . 40 . 070	100	40	70		70	56	27	41		3,2		269,00
HSK-A . 100 . SM . 40 . 100	100	40	70		100	86	27	41		3,9		287,00
HSK-A . 100 . SM . 40 . 160	100	40	70		160	146	27	41		5,8		309,00
HSK-A . 100 . SM . 50 . 080	100	50	90		80	64	30	46		3,8		332,00

ER Collets pag. 162 - Clamping keys for ER Clamping nuts pag. 180

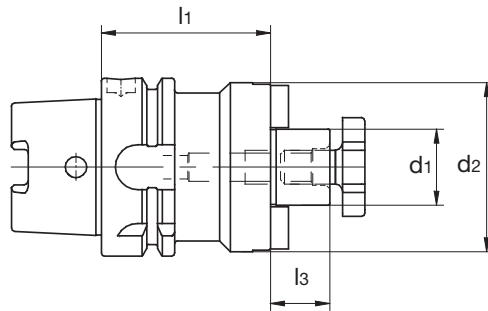
Clamping nuts pag. 173

Pinze ER pag. 162 - Chiave per ghiera pag. 180

Ghiere pag. 173

DIN
69893-1Form
AG 6,3
15.000 rpm

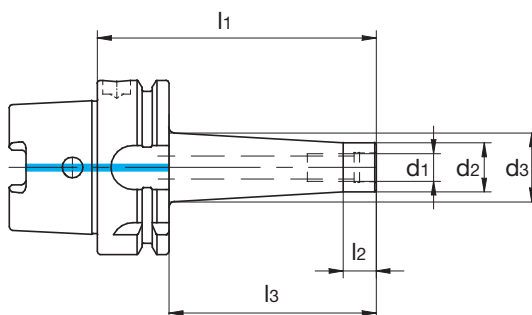
art.	HSK-A	d1	d2		l1		l3		kg		€
HSK-A . 050 . SM-E . 16 . 045	50	16	38		45		17		-		158,00
HSK-A . 050 . SM-E . 16 . 050	50	16	40		50		17		0,8		237,00
HSK-A . 050 . SM-E . 22 . 055	50	22	48		55		19		-		161,00
HSK-A . 050 . SM-E . 22 . 060	50	22	50		60		19		0,9		237,00
HSK-A . 050 . SM-E . 27 . 055	50	27	58		55		21		-		169,00
HSK-A . 050 . SM-E . 27 . 060	50	27	60		60		21		1,1		246,00
HSK-A . 050 . SM-E . 32 . 060	50	32	78		60		24		-		175,00
HSK-A . 063 . SM-E . 16 . 045	63	16	38		45		17		-		160,00
HSK-A . 063 . SM-E . 16 . 050	63	16	40		50		17		0,9		183,00
HSK-A . 063 . SM-E . 16 . 100	63	16	40		100		17		1,4		228,00
HSK-A . 063 . SM-E . 16 . 160	63	16	40		160		17		2,0		275,00
HSK-A . 063 . SM-E . 22 . 050	63	22	50		50		19		1,1		183,00
HSK-A . 063 . SM-E . 22 . 100	63	22	50		100		19		1,8		228,00
HSK-A . 063 . SM-E . 22 . 160	63	22	50		160		19		2,7		175,00
HSK-A . 063 . SM-E . 27 . 055	63	27	58		55		21		-		172,00
HSK-A . 063 . SM-E . 27 . 060	63	27	60		60		21		1,4		183,00
HSK-A . 063 . SM-E . 27 . 100	63	27	60		100		21		2,2		228,00
HSK-A . 063 . SM-E . 27 . 160	63	27	60		160		21		3,5		275,00
HSK-A . 063 . SM-E . 32 . 060	63	32	78		60		24		1,6		186,00
HSK-A . 063 . SM-E . 32 . 100	63	32	78		100		24		3,0		236,00
HSK-A . 063 . SM-E . 32 . 160	63	32	78		160		24		5,2		281,00
HSK-A . 063 . SM-E . 40 . 060	63	40	89		60		27		1,8		239,00
HSK-A . 063 . SM-E . 40 . 065	63	40	88		65		27		-		199,00
HSK-A . 063 . SM-E . 40 . 100	63	40	89		100		27		3,9		285,00
HSK-A . 063 . SM-E . 40 . 160	63	40	70		160		27		-		246,00



DIN 69893-1	Form A		G 6,3 15.000 rpm
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art.	HSK-A	d1	d2		l1		l3			kg			€
HSK-A .080 . SM-E .22 . 050	80	22	50		50		19			2,1			315,00
HSK-A .080 . SM-E .27 . 050	80	27	60		50		21			2,3			315,00
HSK-A .080 . SM-E .32 . 060	80	32	78		60		24			2,5			330,00
HSK-A .080 . SM-E .40 . 060	80	40	89		60		27			3,3			385,00

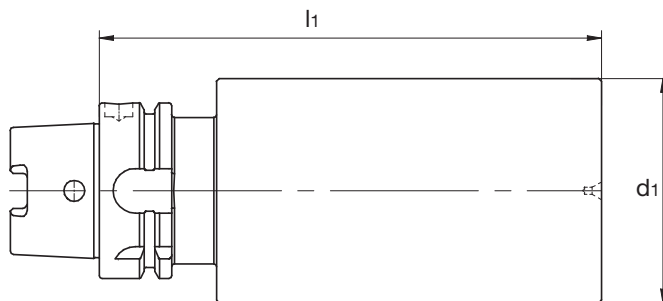
HSK-A	. 100 .	SM-E	. 16 .	050	100	16	40		50	17		2,2		242,00
HSK-A	. 100 .	SM-E	. 16 .	100	100	16	40		100	17		2,7		288,00
HSK-A	. 100 .	SM-E	. 16 .	160	100	16	40		160	17		3,3		333,00
HSK-A	. 100 .	SM-E	. 22 .	050	100	22	50		50	19		2,4		242,00
HSK-A	. 100 .	SM-E	. 22 .	100	100	22	50		100	19		3,1		288,00
HSK-A	. 100 .	SM-E	. 22 .	160	100	22	50		160	19		4,0		333,00
HSK-A	. 100 .	SM-E	. 27 .	050	100	27	60		50	21		2,5		242,00
HSK-A	. 100 .	SM-E	. 27 .	100	100	27	60		100	21		3,6		288,00
HSK-A	. 100 .	SM-E	. 27 .	160	100	27	60		160	21		4,7		333,00
HSK-A	. 100 .	SM-E	. 32 .	050	100	32	78		50	24		2,9		248,00
HSK-A	. 100 .	SM-E	. 32 .	100	100	32	78		100	24		4,7		294,00
HSK-A	. 100 .	SM-E	. 32 .	160	100	32	78		160	24		6,9		324,00
HSK-A	. 100 .	SM-E	. 40 .	060	100	40	89		60	27		3,5		285,00
HSK-A	. 100 .	SM-E	. 40 .	100	100	40	89		100	27		5,4		330,00
HSK-A	. 100 .	SM-E	. 40 .	160	100	40	89		160	27		8,3		377,00
HSK-A	. 100 .	SM-E	. 50 .	070	100	50	120		70	30		5,4		333,00
HSK-A	. 100 .	SM-E	. 50 .	100	100	50	120		100	30		7,1		380,00
HSK-A	. 100 .	SM-E	. 50 .	160	100	50	120		160	30		9,3		426,00
HSK-A	. 100 .	SM-E	. 60 .	070	100	60	140		70	40		6,3		333,00
HSK-A	. 100 .	SM-E	. 60 .	100	100	60	140		100	40		8,2		380,00

DIN
69893-1Form
AG 2,5
20.000 rpm

art.	HSK-A	d1	d2	d3	l1	l2	l3			kg		€
HSK-A .063 .SI .08 .051	63	M8	12,8	15	51	12	25			0,7		275,00
HSK-A .063 .SI .08 .076	63	M8	12,8	23	76	12	50			0,8		303,00
HSK-A .063 .SI .08 .101	63	M8	12,8	23	101	12	75			0,8		327,00
HSK-A .063 .SI .10 .051	63	M10	17,8	20	51	12	25			0,7		288,00
HSK-A .063 .SI .10 .076	63	M10	17,8	25	76	12	50			0,8		315,00
HSK-A .063 .SI .10 .101	63	M10	17,8	25	101	12	75			0,9		341,00
HSK-A .063 .SI .10 .126	63	M10	17,8	32	126	12	100			1,0		377,00
HSK-A .063 .SI .10 .176	63	M10	17,8	35	176	12	150			1,3		449,00
HSK-A .063 .SI .12 .051	63	M12	20,8	24	51	12	25			0,7		288,00
HSK-A .063 .SI .12 .076	63	M12	20,8	28	76	12	50			0,8		315,00
HSK-A .063 .SI .12 .101	63	M12	20,8	31	101	12	75			0,9		341,00
HSK-A .063 .SI .12 .126	63	M12	20,8	33	126	12	100			1,1		377,00
HSK-A .063 .SI .12 .176	63	M12	20,8	40	176	12	150			1,4		449,00
HSK-A .063 .SI .16 .051	63	M16	28,8	-	51	-	25			0,8		293,00
HSK-A .063 .SI .16 .076	63	M16	28,8	34	76	12	50			0,9		315,00
HSK-A .063 .SI .16 .101	63	M16	28,8	34	101	12	75			1,0		341,00
HSK-A .063 .SI .16 .126	63	M16	28,8	36	126	12	100			1,2		377,00
HSK-A .063 .SI .16 .176	63	M16	28,8	42	176	12	150			1,7		449,00

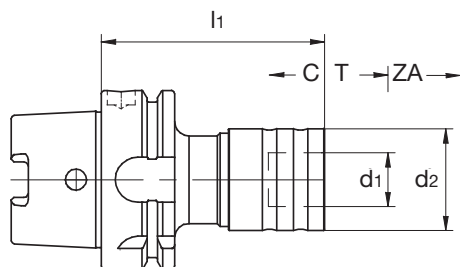


art.				HSK-A	d1	d2	d3	l1	l2	l3				kg		€
HSK-A	. 100	SI	.08. 079	100	M8	12,8	23	79	12	50				2,2		371,00
HSK-A	. 100	SI	.10. 079	100	M10	17,8	25	79	12	50				2,2		371,00
HSK-A	. 100	SI	.10. 104	100	M10	17,8	25	104	12	75				2,3		410,00
HSK-A	. 100	SI	.10. 129	100	M10	17,8	32	129	12	100				2,4		455,00
HSK-A	. 100	SI	.10. 179	100	M10	17,8	35	179	12	150				2,6		524,00
HSK-A	. 100	SI	.12. 079	100	M12	20,8	28	79	12	50				2,2		371,00
HSK-A	. 100	SI	.12. 104	100	M12	20,8	31	104	12	75				2,3		410,00
HSK-A	. 100	SI	.12. 129	100	M12	20,8	33	129	12	100				2,4		455,00
HSK-A	. 100	SI	.12. 179	100	M12	20,8	40	179	12	150				2,8		524,00
HSK-A	. 100	SI	.16. 079	100	M16	28,8	34	79	12	50				2,3		371,00
HSK-A	. 100	SI	.16. 104	100	M16	28,8	34	104	12	75				2,4		410,00
HSK-A	. 100	SI	.16. 129	100	M16	28,8	36	129	12	100				2,6		455,00
HSK-A	. 100	SI	.16. 179	100	M16	28,8	42	179	12	150				3,0		524,00



DIN
69893-1

art.				HSK-A	d1				I1					kg			€
HSK-A . 040 . TB . 40 . 200				40	40				200					7,6			357,00
HSK-A . 050 . TB . 63 . 200				50	63				200					8,1			365,00
HSK-A . 063 . TB . 63 . 250				63	63				250					-			176,00
HSK-A . 063 . TB . 80 . 250				63	80				250					11,0			281,00
HSK-A . 080 . TB . 80 . 250				80	80				250					16,4			477,00
HSK-A . 100 . TB . 80 . 250				100	80				250					-			249,00
HSK-A . 100 . TB . 95 . 250				100	95				250					18,0			294,00



DIN
69893-1

Form
A



art.	HSK-A	M	d1	d2	l1	C	T	ZA	kg	€
HSK-A . 040 . TH . 01 . 073	40	M 3 - M14	19	36	73	5	8	2,1	0,6	475,00
HSK-A . 050 . TH . 01 . 077	50	M 3 - M14	19	36	77	5	8	2,1	0,9	496,00
HSK-A . 063 . TH . 01 . 079	63	M 3 - M14	19	36	79	5	8	2,1	1,2	496,00
HSK-A . 063 . TH . 03 . 113	63	M 4,5 - M24	31	53	113	8,5	15	2,8	2,1	538,00
HSK-A . 080 . TH . 01 . 084	80	M 3 - M14	19	36	83,5	5	8	2,1	2	538,00
HSK-A . 080 . TH . 03 . 118	80	M 4,5 - M24	31	53	117,5	8,5	15	2,8	2,9	603,00
HSK-A . 100 . TH . 03 . 120	100	M 4,5 - M24	31	53	119,5	8,5	15	2,8	4	754,00

Lenght compensation on Compression and Tension

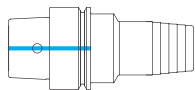
Compensazione assiale in Compressione ed in Trazione

TOOL HOLDERS





HY-S

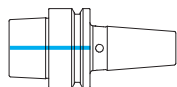


Hydraulic chuck - reduced
Mandrino idraulico - scaricato

DIN 69893-5	Form E				G 2,5 25.000 rpm
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94

SF

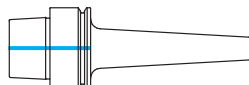


Shrink fit chuck
Mandrino calettamento a caldo

DIN 69893-5	Form E				G 2,5 25.000 rpm
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95

SF-S



Shrink fit chuck - slim
Mandrino calettamento a caldo - snello

DIN 69893-5	Form E				G 2,5 30.000 rpm
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96

SF-ES

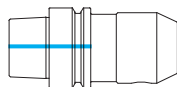


Shrink fit chuck - extra slim
Mandrino calettamento a caldo - extra snello

DIN 69893-5	Form E				G 2,5 25.000 rpm
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97

W

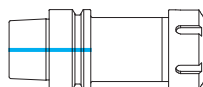


Weldon chuck
Mandrino Weldon

DIN 69893-5	Form E				G 2,5 25.000 rpm
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98

ER-N

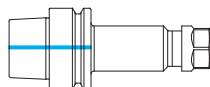


ER chuck
Portapinze ER

DIN 69893-5	Form E				G 2,5 25.000 rpm
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99

ER-S

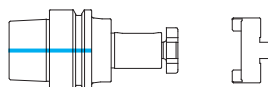


ER chuck - slim
Portapinze ER - snello

DIN 69893-5	Form E				G 2,5 25.000 rpm
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100

SM

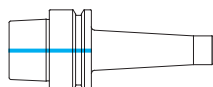


Shell end mill holder
Portafrese a manicotto

DIN 69893-5	Form E				G 2,5 25.000 rpm
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101

SI



Screw-In milling cutters holder
Portatestine con filetto interno

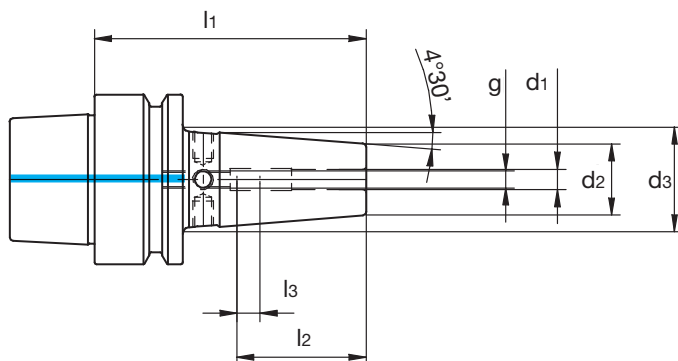
DIN 69893-5	Form E				G 2,5 25.000 rpm
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102

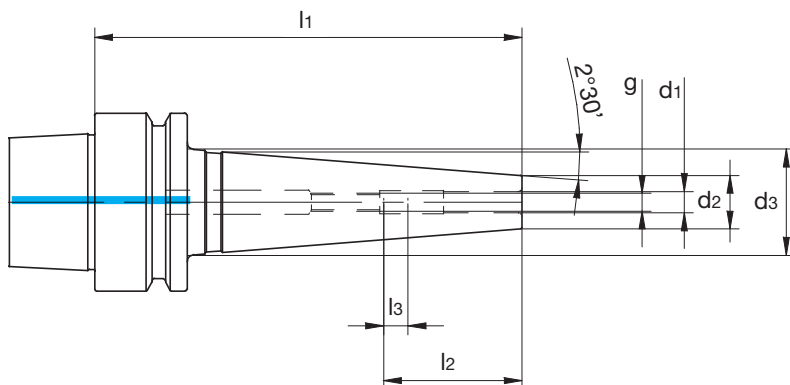


HSK-E	.050	.HY-S	.06	.070	50	6	26	40	70	37	10	28	M5	0,9				516,00
HSK-E	.050	.HY-S	.08	.070	50	8	28	40	70	37	10	28	M6	0,9				516,00
HSK-E	.050	.HY-S	.10	.075	50	10	30	40	75	41	10	34	M8x1	1				516,00
HSK-E	.050	.HY-S	.12	.080	50	12	32	40	85	46	10	44	M10x1	1				516,00
HSK-E	.050	.HY-S	.14	.080	50	14	34	40	85	46	10	44	M10x1	1				516,00
HSK-E	.050	.HY-S	.16	.090	50	16	38	42	90	49	10	30	M12x1	1				516,00
HSK-E	.050	.HY-S	.18	.090	50	18	40	42	90	49	10	29	M12x1	1,2				516,00
HSK-E	.050	.HY-S	.20	.090	50	20	42	42	90	51	10	29	M16x1	1,2				516,00

EVO

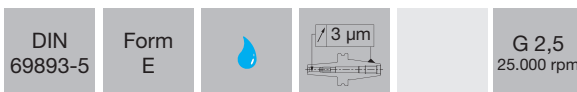


art.	HSK-E	d1	d2	d3	l1	l2	l3	g	kg	Form screw	€
HSK-E .032 . SF .03 . 065	32	3	12	17	65	-	-		0.2	B	258,00
HSK-E .032 . SF .04 . 065	32	4	12	17	65	-	-		0.2	B	258,00
HSK-E .032 . SF .05 . 065	32	5	12	17	65	-	-		0.2	B	258,00
HSK-E .032 . SF .06 . 070	32	6	21	26	70	36	10	M 5	0.4	B	214,00
HSK-E .032 . SF .08 . 070	32	8	21	26	70	36	10	M 6	0.4	B	214,00
HSK-E .032 . SF .10 . 070	32	10	24	30	70	41	10	M 8 x 1	0.4	B	214,00
HSK-E .040 . SF .03 . 065	40	3	12	17	65	-	-		0.3	B	300,00
HSK-E .040 . SF .04 . 065	40	4	12	17	65	-	-		0.3	B	300,00
HSK-E .040 . SF .05 . 065	40	5	12	17	65	-	-		0.3	B	300,00
HSK-E .040 . SF .06 . 080	40	6	21	31	80	36	10	M 5	0.4	B	235,00
HSK-E .040 . SF .08 . 080	40	8	21	31	80	36	10	M 6	0.4	B	235,00
HSK-E .040 . SF .10 . 080	40	10	24	34	80	41	10	M 8 x 1	0.6	B	235,00
HSK-E .040 . SF .12 . 090	40	12	24	35	90	47	10	M10 x 1	0.6	B	235,00
HSK-E .050 . SF .03 . 065	50	3	12	17	65	-	-		0.5	B	300,00
HSK-E .050 . SF .04 . 065	50	4	12	17	65	-	-		0.5	B	300,00
HSK-E .050 . SF .05 . 065	50	5	12	17	65	-	-		0.5	B	300,00
HSK-E .050 . SF .06 . 080	50	6	21	30	80	36	10	M 5	0.6	B	235,00
HSK-E .050 . SF .08 . 080	50	8	21	30	80	36	10	M 6	0.6	B	235,00
HSK-E .050 . SF .10 . 085	50	10	24	33	85	41	10	M 8 x 1	0.7	B	235,00
HSK-E .050 . SF .12 . 090	50	12	24	34	90	47	10	M10 x 1	0.7	B	235,00
HSK-E .050 . SF .14 . 090	50	14	27	37	90	47	10	M10 x 1	0.8	B	235,00
HSK-E .050 . SF .16 . 095	50	16	27	38	95	50	10	M12 x 1	0.8	B	235,00
HSK-E .063 . SF .03 . 080	63	3	12	17	80	-	-		0.6	B	321,00
HSK-E .063 . SF .04 . 080	63	4	12	17	80	-	-		0.6	B	321,00
HSK-E .063 . SF .05 . 080	63	5	12	17	80	-	-		0.6	B	321,00
HSK-E .063 . SF .06 . 080	63	6	21	30	80	36	10	M 5	0.7	B	279,00
HSK-E .063 . SF .08 . 080	63	8	21	30	80	36	10	M 6	0.7	B	279,00
HSK-E .063 . SF .10 . 085	63	10	24	33	85	41	10	M 8 x 1	0.8	B	279,00
HSK-E .063 . SF .12 . 090	63	12	24	34	90	47	10	M10 x 1	0.8	B	279,00
HSK-E .063 . SF .14 . 090	63	14	27	37	90	47	10	M10 x 1	0.9	B	279,00
HSK-E .063 . SF .16 . 095	63	16	27	38	95	50	10	M12 x 1	0.9	B	279,00



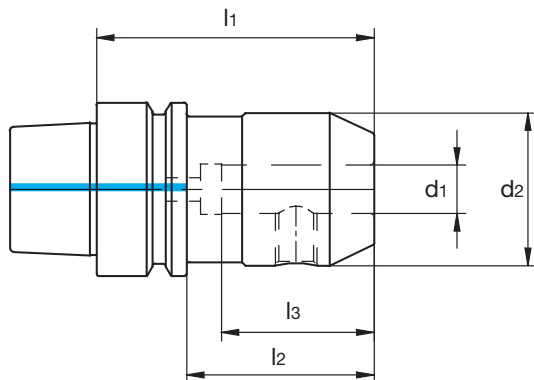
DIN 69893-5	Form E			G 2,5 30.000 rpm
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art.		HSK-E	d1	d2	d3	l1	l2	l3		g	kg	Form screw		€
HSK-E . 040 . SF-S . 06 . 120		40	6	15	30	120	36	10		M5	0,5	B		431,00
HSK-E . 040 . SF-S . 08 . 120		40	8	15	30	120	36	10		M6	0,5	B		431,00
HSK-E . 040 . SF-S . 10 . 120		40	10	18	33	120	41	10		M8X1	0,6	B		431,00
HSK-E . 040 . SF-S . 12 . 120		40	12	18	33	120	47	10		M10X1	0,6	B		431,00
HSK-E . 050 . SF-S . 06 . 120		50	6	15	30	120	36	10		M5	0,7	B		452,00
HSK-E . 050 . SF-S . 08 . 120		50	8	15	30	120	36	10		M6	0,7	B		452,00
HSK-E . 050 . SF-S . 10 . 120		50	10	18	33	120	41	10		M8X1	0,8	B		452,00
HSK-E . 050 . SF-S . 12 . 120		50	12	18	33	120	47	10		M10X1	0,8	B		452,00
HSK-E . 063 . SF-S . 06 . 120		63	6	15	30	120	36	10		M5	1	B		475,00
HSK-E . 063 . SF-S . 08 . 120		63	8	15	30	120	36	10		M6	1	B		475,00
HSK-E . 063 . SF-S . 10 . 120		63	10	18	33	120	41	10		M8X1	1,1	B		475,00
HSK-E . 063 . SF-S . 12 . 120		63	12	18	33	120	47	10		M10X1	1,1	B		475,00

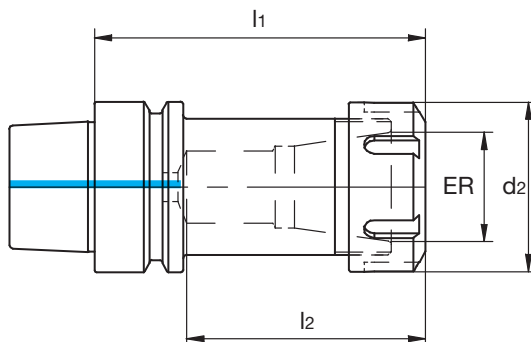


art.	HSK-E	d1	d2	d3	l1						kg			€
HSK-E . 040 . SF-ES .03. 070	40	3	8	12,4	70						0,3			365,00
HSK-E . 040 . SF-ES .03. 120	40	3	8	16,8	120						0,3			431,00
HSK-E . 040 . SF-ES .04. 070	40	4	9	13,4	70						0,3			365,00
HSK-E . 040 . SF-ES .04. 120	40	4	9	17,8	120						0,3			431,00
HSK-E . 040 . SF-ES .05. 070	40	5	10	14,4	70						0,3			365,00
HSK-E . 040 . SF-ES .05. 120	40	5	10	18,4	120						0,3			431,00
HSK-E . 040 . SF-ES .06. 070	40	6	11	15,4	70						0,3			365,00
HSK-E . 040 . SF-ES .06. 120	40	6	11	19,4	120						0,4			431,00
HSK-E . 040 . SF-ES .08. 070	40	8	13	17,4	70						0,3			365,00
HSK-E . 040 . SF-ES .08. 120	40	8	13	21,4	120						0,4			431,00
HSK-E . 040 . SF-ES .10. 070	40	10	15	19,4	70						0,3			365,00
HSK-E . 040 . SF-ES .10. 120	40	10	15	23,4	120						0,4			431,00
HSK-E . 040 . SF-ES .12. 070	40	12	17	21,4	70						0,3			365,00
HSK-E . 040 . SF-ES .12. 120	40	12	17	25,4	120						0,5			431,00

HSK-E

DIN
69893-5Form
EG 2,5
25.000 rpm

art.	HSK-E	d1	d2		l1	l2	l3		Tol./d1	kg		€
HSK-E . 050 . W . 06 . 065	50	6	25		65	39	35		+ 0.005	0.7		258,00
HSK-E . 050 . W . 08 . 065	50	8	28		65	39	35		+ 0.005	0.8		235,00
HSK-E . 050 . W . 10 . 065	50	10	35		65	39	39		+ 0.005	0.8		235,00
HSK-E . 050 . W . 12 . 080	50	12	42		80	54	44		+ 0.005	0.9		235,00
HSK-E . 050 . W . 16 . 080	50	16	48		80	54	47		+ 0.005	1.0		235,00
HSK-E . 050 . W . 18 . 080	50	18	50		80	54	47		+ 0.005	1.0		235,00
HSK-E . 050 . W . 20 . 080	50	20	52		80	54	49		+ 0.007	1.0		235,00
HSK-E . 063 . W . 06 . 065	63	6	25		65	39	35		+ 0.005	0.8		258,00
HSK-E . 063 . W . 08 . 065	63	8	28		65	39	35		+ 0.005	0.8		258,00
HSK-E . 063 . W . 10 . 065	63	10	35		65	39	39		+ 0.005	0.9		258,00
HSK-E . 063 . W . 12 . 080	63	12	42		80	54	44		+ 0.005	1.2		258,00
HSK-E . 063 . W . 16 . 080	63	14	44		80	54	44		+ 0.005	1.2		258,00
HSK-E . 063 . W . 18 . 080	63	16	48		80	54	47		+ 0.005	1.3		258,00
HSK-E . 063 . W . 20 . 080	63	20	52		80	54	49		+ 0.007	1.4		258,00



DIN
69893-5

Form
E

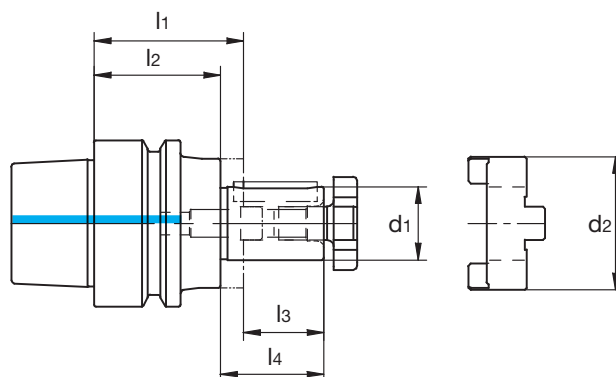
G 2,5
25.000 rpm

art.	HSK-E	ER		d2		I1	I2			kg			€
HSK-E . 040 . ER-N .25. 080	40	ER 25 (1-16)		42		80	36			0,5			212,00
HSK-E . 050 . ER-N .25. 100	50	ER 25 (1-16)		42		100	36			1,2			250,00
HSK-E . 050 . ER-N .32. 100	50	ER 32 (2-20)		50		100	40			1,2			256,00

HSK-E



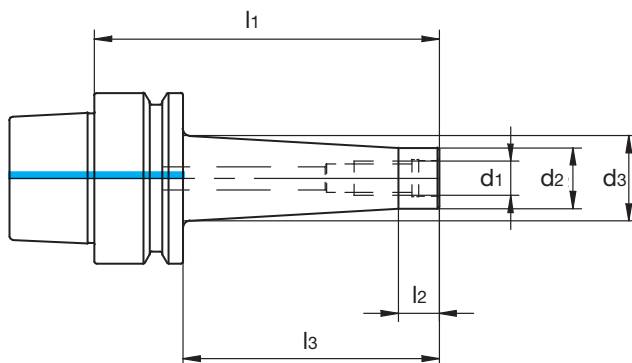
art.	HSK-E	ER		d2	d3	l1	l2			kg			€
HSK-E .040 . ER-S .11 . 060	40	ER 11 (0,5- 7)		19	18,5	60	42			0,3			227,00
HSK-E .040 . ER-S .16 . 060	40	ER 16 (0,5-10)		32	28	60	40			0,4			227,00
HSK-E .050 . ER-S .16 . 100	50	ER 16 (0,5-10)		32	28	100	70			0,6			237,00



G 2,5
25.000 rpm

art.				HSK-E	d1	d2		l1	l2	l3	l4		kg			€	
HSK-E	.050	SM	.16	.050	50	16	32		50	40	17	27		0,7			279,00
HSK-E	.050	SM	.22	.050	50	22	40		50	38	19	31		0,8			265,00
HSK-E	.050	SM	.27	.065	50	27	48		65	53	21	33		1,0			271,00
HSK-E	.050	SM	.32	.065	50	32	58		65	51	24	38		1,2			286,00

HSK-E



DIN
69893-5

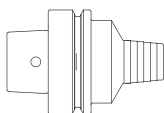
Form
E

G 2,5
25.000 rpm

art.				HSK-E	d1	d2	d3	l1	l2	l3			kg			€
HSK-E	.040	.SI	.08.045	40	M 8	12.8	15	45	12	25			0,3			197,00
HSK-E	.040	.SI	.08.070	40	M 8	12.8	23	70	12	50			0,3			204,00
HSK-E	.040	.SI	.08.095	40	M 8	12.8	23	95	12	75			0,4			206,00
HSK-E	.040	.SI	.10.045	40	M10	17.8	20	45	12	25			0,3			197,00
HSK-E	.040	.SI	.10.070	40	M10	17.8	25	70	12	50			0,4			204,00
HSK-E	.040	.SI	.10.095	40	M10	17.8	25	95	12	75			0,4			206,00
HSK-E	.050	.SI	.08.051	50	M 8	12.8	15	51	12	25			0,5			206,00
HSK-E	.050	.SI	.08.076	50	M 8	12.8	23	76	12	50			0,5			210,00
HSK-E	.050	.SI	.08.101	50	M 8	12.8	23	101	12	75			0,6			214,00
HSK-E	.050	.SI	.08.126	50	M 8	12.8	23	126	12	100			0,6			225,00
HSK-E	.050	.SI	.10.051	50	M10	17.8	20	51	12	25			0,5			206,00
HSK-E	.050	.SI	.10.076	50	M10	17.8	25	76	12	50			0,6			210,00
HSK-E	.050	.SI	.10.101	50	M10	17.8	25	101	12	75			0,6			214,00
HSK-E	.050	.SI	.10.126	50	M10	17.8	32	126	12	100			0,8			225,00
HSK-E	.050	.SI	.12.051	50	M12	20.8	24	51	12	25			0,5			206,00
HSK-E	.050	.SI	.12.076	50	M12	20.8	28	76	12	50			0,6			210,00
HSK-E	.050	.SI	.12.101	50	M12	20.8	31	101	12	75			0,7			214,00
HSK-E	.050	.SI	.12.126	50	M12	20.8	33	126	12	100			0,8			225,00



HYS

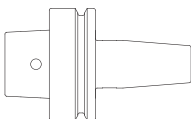


Hydraulic chuck - reduced
Mandrino idraulico - scaricato

DIN 69893-6	Form F				G 2,5 25.000 rpm
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104

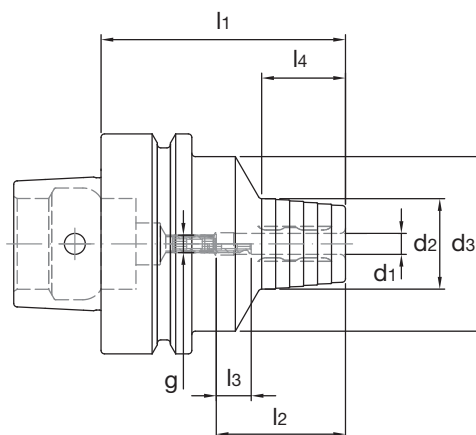
SF



Shrink fit chuck
Mandrino calettamento a caldo

DIN 69893-6	Form F				G 2,5 25.000 rpm
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105

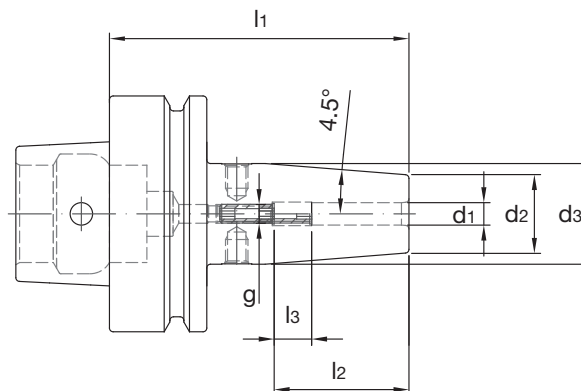
DIN
69893-6

Form F



G 2,5
25.000 rpm

art.		HSK-F	d1	d2	d3	l1	l2	l3	l4	g	kg			€
HSK-F	.063 . HY-S .06 .070	63	6	26	50	70	37	10	24	M5	0,6			556,00
HSK-F	.063 . HY-S .08 .070	63	8	28	50	70	37	10	25	M6	0,7			556,00
HSK-F	.063 . HY-S .10 .080	63	10	30	50	80	41	10	35	M8x1	0,8			556,00
HSK-F	.063 . HY-S .12 .085	63	12	32	50	85	46	10	40	M10x1	0,7			513,00
HSK-F	.063 . HY-S .14 .085	63	14	34	50	85	46	10	40	M10x1	0,8			556,00
HSK-F	.063 . HY-S .16 .090	63	16	38	50	90	49	10	46	M12x1	0,8			556,00
HSK-F	.063 . HY-S .18 .090	63	18	40	50	90	49	10	47	M12x1	0,7			556,00
HSK-F	.063 . HY-S .20 .090	63	20	42	50	90	51	10	48	M16x1	0,8			513,00
HSK-F	.063 . HY-S .25 .120	63	25	57	53	120	57	10	63	M16x1	0,8			556,00



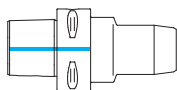
DIN
69893-6

Form
F



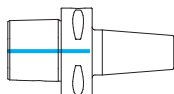
G 2,5
25.000 rpm

art.	HSK-F	d1	d2	d3	l1	l2	l3	g	kg	Form screw	€
HSK-F . 063 . SF . 03 . 080	63	3	10	15	80	28	16	M6	0,6	A	240,00
HSK-F . 063 . SF . 03 . 120	63	3	10	20	120	-	-	-	0,7	A	295,00
HSK-F . 063 . SF . 03 . 160	63	3	10	20	160	-	-	-	0,8	A	319,00
HSK-F . 063 . SF . 04 . 080	63	4	15	22	80	28	12	M6	0,7	A	240,00
HSK-F . 063 . SF . 04 . 120	63	4	15	22	120	-	-	-	0,8	A	295,00
HSK-F . 063 . SF . 04 . 160	63	4	15	22	160	-	-	-	0,8	A	319,00
HSK-F . 063 . SF . 05 . 080	63	5	15	22	80	30	10	M6	0,7	A	240,00
HSK-F . 063 . SF . 05 . 120	63	5	15	22	120	-	-	-	0,8	A	295,00
HSK-F . 063 . SF . 05 . 160	63	5	15	22	160	-	-	-	0,8	A	319,00
HSK-F . 063 . SF . 06 . 080	63	6	21	27	80	36	10	M5	0,8	A	215,00
HSK-F . 063 . SF . 06 . 120	63	6	21	27	120	36	10	M5	1	A	270,00
HSK-F . 063 . SF . 06 . 160	63	6	21	27	160	36	10	M5	1,1	A	307,00
HSK-F . 063 . SF . 08 . 080	63	8	21	27	80	36	10	M6	0,8	A	215,00
HSK-F . 063 . SF . 08 . 120	63	8	21	27	120	36	10	M6	1	A	270,00
HSK-F . 063 . SF . 08 . 160	63	8	21	27	160	36	10	M6	1,1	A	307,00
HSK-F . 063 . SF . 10 . 085	63	10	24	32	85	41	10	M8X1	0,9	A	215,00
HSK-F . 063 . SF . 10 . 120	63	10	24	32	120	41	10	M8X1	1,1	A	270,00
HSK-F . 063 . SF . 10 . 160	63	10	24	32	160	41	10	M8X1	1,3	A	307,00
HSK-F . 063 . SF . 12 . 090	63	12	24	32	90	47	10	M10X1	0,9	A	215,00
HSK-F . 063 . SF . 12 . 120	63	12	24	32	120	47	10	M10X1	1,1	A	270,00
HSK-F . 063 . SF . 12 . 160	63	12	24	32	160	47	10	M10X1	1,3	A	307,00
HSK-F . 063 . SF . 14 . 090	63	14	27	34	90	47	10	M10X1	0,9	A	215,00
HSK-F . 063 . SF . 14 . 120	63	14	27	34	120	47	10	M10X1	1,1	A	270,00
HSK-F . 063 . SF . 14 . 160	63	14	27	34	160	47	10	M10X1	1,3	A	307,00
HSK-F . 063 . SF . 16 . 095	63	16	27	34	95	50	10	M12X1	1	A	215,00
HSK-F . 063 . SF . 16 . 120	63	16	27	34	120	50	10	M12X1	1,1	A	270,00
HSK-F . 063 . SF . 16 . 160	63	16	27	34	160	50	10	M12X1	1,4	A	307,00
HSK-F . 063 . SF . 18 . 095	63	18	33	42	95	50	10	M12X1	1,1	A	215,00
HSK-F . 063 . SF . 18 . 120	63	18	33	42	120	50	10	M12X1	1,3	A	270,00
HSK-F . 063 . SF . 18 . 160	63	18	33	42	160	50	10	M12X1	1,6	A	307,00
HSK-F . 063 . SF . 20 . 100	63	20	33	42	100	52	10	M16X1	1,1	A	215,00
HSK-F . 063 . SF . 20 . 120	63	20	33	42	120	52	10	M16X1	1,3	A	270,00
HSK-F . 063 . SF . 20 . 160	63	20	33	42	160	52	10	M16X1	1,6	A	307,00
HSK-F . 063 . SF . 25 . 115	63	25	44	53	115	58	10	M16X1	1,6	A	215,00
HSK-F . 063 . SF . 25 . 120	63	25	44	53	120	58	10	M16X1	1,7	A	270,00
HSK-F . 063 . SF . 25 . 160	63	25	44	53	160	58	10	M16X1	2	A	307,00
HSK-F . 063 . SF . 32 . 120	63	32	44	53	120	62	10	M16X1	1,6	A	215,00

**HYS****Hydraulic chuck - reduced**
Mandrino idraulico - scaricato

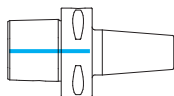
ISO 26623					G 2,5 20.000 rpm
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112

SF 32/40/50**Shrink fit chuck**
Mandrino calettamento a caldo

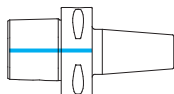
ISO 26623					G 6,3 15.000 rpm
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113

SF 63**Shrink fit chuck**
Mandrino calettamento a caldo

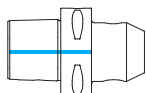
ISO 26623					G 6,3 15.000 rpm
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114

SF 80**Shrink fit chuck**
Mandrino calettamento a caldo

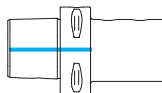
ISO 26623					G 6,3 15.000 rpm
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115

W**Weldon chuck**
Mandrino Weldon

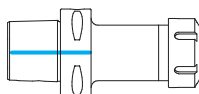
ISO 26623					G 6,3 15.000 rpm
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116

DH**Drill holder**
Portapunte

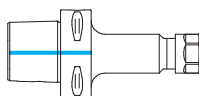
ISO 26623					G 6,3 15.000 rpm
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117

ER-N**ER chuck**
Mandrino portapinze ER

ISO 26623					G 6,3 15.000 rpm
--------------	--	--	--	--	---------------------

118

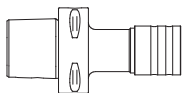
ERS**ER chuck - slim**
Portapinze ER - snello

ISO 26623					G 6,3 15.000 rpm
--------------	--	--	--	--	---------------------

119



TH

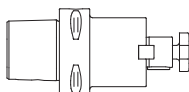


Tapping chuck
Mandrino maschiatore

ISO
26623

120

SM

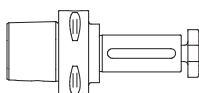


Shell end mill holder
Portafrese a manicotto

ISO
26623G 6,3
15.000 rpm

121

SM-L

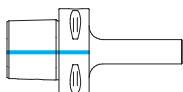


Shell end mill holder - long
Portafrese a manicotto - lungo

ISO
26623G 6,3
15.000 rpm

122

SI

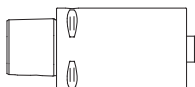


Screw-In milling cutters holder
Portatestina con attacco filettato

ISO
26623G 2,5
20.000 rpm

123

KT-AE

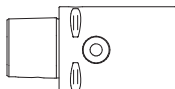


KT Extension with axial clamping
Prolunga KT con bloccaggio assiale

ISO
26623

124

KT-RE

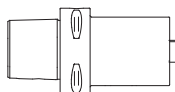


KT Extension with radial clamping
Prolunga KT con bloccaggio radiale

ISO
26623

124

KT-CR

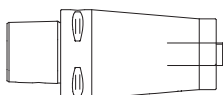


KT Extension with cylindrical reduction
Prolunga KT con riduzione cilindrica

ISO
26623

124

KT-TR



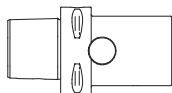
KT reduction with tapered reduction
Riduzione KT con riduzione conica

ISO
26623

125



KT-RR



KT reduction with radial clamping
Riduzione KT con bloccaggio radiale

ISO
26623



125

TB

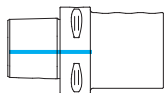


Tool blank
Barra grezza

ISO
26623

126

BH



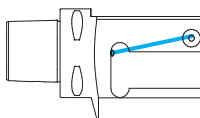
Boring bar holder
Portabareni

ISO
26623



127

ST-R/L



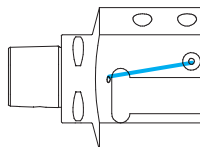
Turning tool holder axial - single
Portautensile assiale per tornitura - singolo

ISO
26623



128

DT-R/L



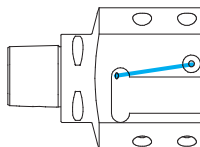
Turning tool holder axial - double
Portautensile assiale per tornitura - doppio

ISO
26623



129

TT-R/L



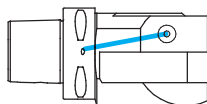
Turning tool holder axial - triple
Portautensile assiale per tornitura - triplo

ISO
26623



130

T45-R/L



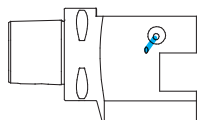
Turning tool holder 45°
Portautensile per tornitura 45°

ISO
26623



131

RT



Turning tool holder - radial
Portautensile per tornitura - radiale

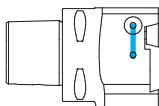
ISO
26623



132



GR



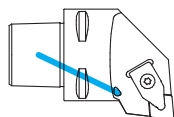
Grooving tool holder - radial
Portautensile per scanalature - radiale

ISO
26623



132

T95 CNMG12



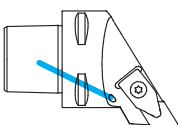
Turning tool 95° for CNMG 12
Utensile di tornitura 95° per CNMG 12

ISO
26623



133

T93 DNMG15



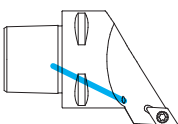
Turning tool 93° for DNMG 15
Utensile di tornitura 93° per DNMG 15

ISO
26623



133

T93 DCMT11



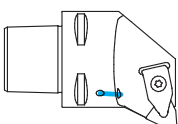
Turning tool 93° for DCMT 11
Utensile di tornitura 93° per DCMT 11

ISO
26623



134

T95 WNMGO8



Turning tool 95° for WNMGO 8
Utensile di tornitura 95° per WNMGO 8

ISO
26623



134

T62.5 DCMT11



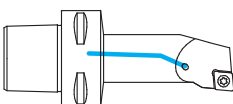
Turning tool 62.5° for DCMT 11
Utensile di tornitura 62.5° per DCMT 11

ISO
26623



135

B95 CCMT09



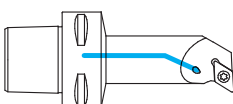
Boring bar 95° for CCMT 09
Utensile di barenatura 95° per CCMT 09

ISO
26623



135

B93 DCMT11



Boring bar 93° for DCMT 11
Utensile di barenatura 93° per DCMT 11

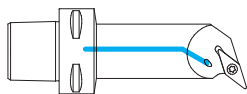
ISO
26623



136



B107.5 VCMT16



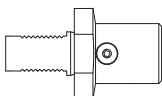
Boring bar 107.5° for VCMT 16
Utensile di barenatura 107.5° per VCMT 16

ISO
26623



136

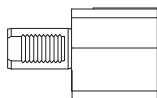
VDI . KT-A



KT adapter - axial
Adattatore KT - assiale

137

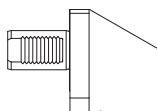
VDI . KT-RX



KT external adapter - radial
Adattatore esterno KT - radiale

137

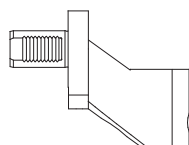
VDI . KT-AX



KT external adapter - axial
Adattatore esterno KT - assiale

138

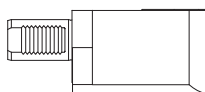
VDI . KT-RI



KT internal adapter - radial
Adattatore interno KT - radiale

138

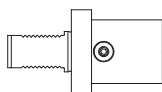
VDI . KT-RS



KT radial adapter for star turret
Adattatore radiale KT per torretta a stella

139

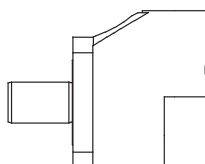
VDI . KT-VD



KT adapter vertical - double
Adattatore verticale KT - doppio

139

VDI . KT-VH

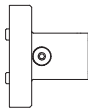


KT adapter - vertical/horizontal
Adattatore KT - verticale/orizzontale

140



KT-RE

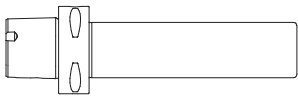


DIN2079 adapter with radial clamping
Adattatore DIN2079 con bloccaggio radiale

DIN 2079					
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140

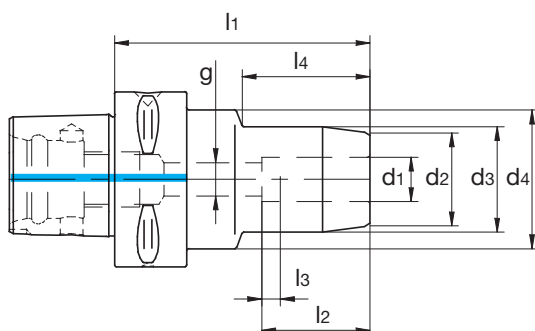
TA



Test arbor
Barra di calibrazione

ISO 26623					
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141

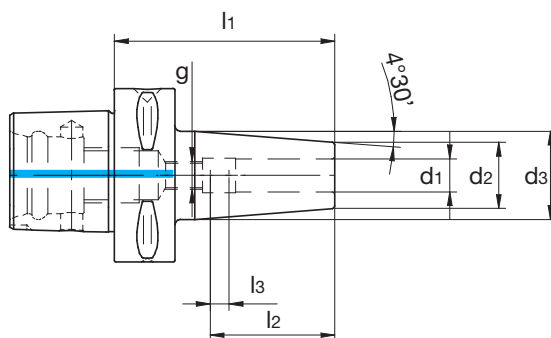
ISO
26623G 2,5
20.000 rpm

art.	KT	d1	d2	d3	d4	l1	l2	l3	l4	g	kg	€
KT . 040 . HY-S . 06 . 080	40	6	22	50	26	80	37	10	40	M 5	0,5	686,00
KT . 040 . HY-S . 08 . 080	40	8	24	50	28	80	37	10	40	M 6	0,5	686,00
KT . 040 . HY-S . 10 . 085	40	10	26	50	30	85	41	10	40	M 8 x 1	0,6	686,00
KT . 040 . HY-S . 12 . 085	40	12	28	50	32	85	46	10	40	M 8 x 1	0,7	686,00

KT . 050 . HY-S . 06 . 065	50	6	22	50	26	65	37	10	30	M 5	0,8	732,00
KT . 050 . HY-S . 08 . 065	50	8	24	50	28	65	37	10	30	M 6	0,8	732,00
KT . 050 . HY-S . 10 . 075	50	10	26	50	30	75	41	10	40	M 8 x 1	1,0	732,00
KT . 050 . HY-S . 12 . 080	50	12	28	50	32	80	46	10	40	M10 x 1	1,0	732,00
KT . 050 . HY-S . 14 . 080	50	14	30	50	34	80	46	10	40	M10 x 1	1,1	732,00
KT . 050 . HY-S . 16 . 085	50	16	34	50	38	85	49	10	46	M12 x 1	1,1	732,00
KT . 050 . HY-S . 18 . 085	50	18	36	50	40	85	49	10	46	M12 x 1	1,1	732,00
KT . 050 . HY-S . 20 . 085	50	20	38	50	42	85	51	10	46	M16 x 1	1,1	732,00

KT . 063 . HY-S . 06 . 065	63	6	22	50	26	65	37	10	25	M 5	1,3	763,00
KT . 063 . HY-S . 08 . 065	63	8	24	50	28	65	37	10	25	M 6	1,3	763,00
KT . 063 . HY-S . 10 . 075	63	10	26	50	30	75	41	10	35	M 8 x 1	1,3	763,00
KT . 063 . HY-S . 12 . 080	63	12	28	50	32	80	46	10	40	M10 x 1	1,3	763,00
KT . 063 . HY-S . 14 . 080	63	14	30	50	34	80	46	10	40	M10 x 1	1,3	763,00
KT . 063 . HY-S . 16 . 085	63	16	34	50	38	85	49	10	46	M12 x 1	1,5	763,00
KT . 063 . HY-S . 18 . 085	63	18	36	50	40	85	49	10	46	M12 x 1	1,3	763,00
KT . 063 . HY-S . 20 . 085	63	20	38	50	42	85	51	10	46	M16 x 1	1,6	763,00
KT . 063 . HY-S . 25 . 095	63	25	45	55	50	95	57	10	50	M16 x 1	2,4	763,00
KT . 063 . HY-S . 32 . 100	63	32	52	63	56	100	61	10	60	M16 x 1	2,8	763,00

Clamping bolt pag. 179 - Reduction bushes pag.158- Adjusting screw pag. 159
Vite di serraggio KT pag. 179 - Bussole di riduzione pag.158- Vite di regolazione pag. 159



ISO
26623

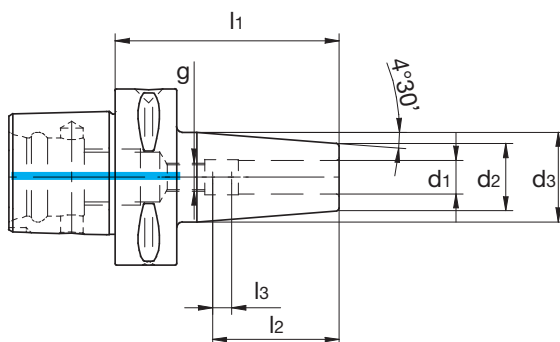


G 6,3
15.000 rpm

art.	KT	d1	d2	d3	l1	l2	l3	g	kg	€
KT . 032 . SF . 06 . 065	32	6	21	27	65	36	10	M 5	0,3	313,00
KT . 032 . SF . 08 . 065	32	8	21	27	65	36	10	M 6	0,3	313,00
KT . 032 . SF . 10 . 070	32	10	24	32	70	41	10	M 8 x 1	0,4	313,00
KT . 032 . SF . 12 . 075	32	12	24	32	75	47	10	M10 x 1	0,4	313,00

KT . 040 . SF . 06 . 075	40	6	21	27	75	36	10	M 5	0,5	320,00
KT . 040 . SF . 08 . 075	40	8	21	27	75	36	10	M 6	0,5	320,00
KT . 040 . SF . 10 . 075	40	10	24	32	75	41	10	M 8 x 1	0,5	320,00
KT . 040 . SF . 12 . 075	40	12	24	32	75	47	10	M10 x 1	0,5	320,00
KT . 040 . SF . 14 . 075	40	14	27	34	80	47	10	M10 x 1	0,6	320,00
KT . 040 . SF . 16 . 075	40	16	27	34	80	50	10	M12 x 1	0,6	320,00
KT . 040 . SF . 18 . 075	40	18	33	42	80	50	10	M12 x 1	0,7	320,00
KT . 040 . SF . 20 . 075	40	20	33	42	85	52	10	M16 x 1	0,7	320,00

KT . 050 . SF . 03 . 065	50	3	12	17	65	-	-	-	0,5	397,00
KT . 050 . SF . 04 . 065	50	4	12	17	65	-	-	-	0,5	397,00
KT . 050 . SF . 05 . 065	50	5	12	17	65	-	-	-	0,5	397,00
KT . 050 . SF . 06 . 075	50	6	21	30	75	36	10	M 5	0,7	329,00
KT . 050 . SF . 06 . 120	50	6	21	32	120	36	10	M 5	0,9	397,00
KT . 050 . SF . 08 . 075	50	8	21	30	75	36	10	M 6	0,7	329,00
KT . 050 . SF . 08 . 120	50	8	21	32	120	36	10	M 6	0,9	397,00
KT . 050 . SF . 10 . 075	50	10	24	33	75	41	10	M 8 x 1	0,7	329,00
KT . 050 . SF . 10 . 120	50	10	24	34	120	41	10	M 8 x 1	1,0	397,00
KT . 050 . SF . 12 . 075	50	12	24	33	75	47	10	M10 x 1	0,7	329,00
KT . 050 . SF . 12 . 120	50	12	24	34	120	47	10	M10 x 1	1,0	397,00
KT . 050 . SF . 14 . 080	50	14	27	34	80	47	10	M10 x 1	0,8	329,00
KT . 050 . SF . 14 . 120	50	14	27	36	120	47	10	M10 x 1	1,1	397,00
KT . 050 . SF . 16 . 080	50	16	27	34	80	50	10	M12 x 1	0,7	329,00
KT . 050 . SF . 16 . 120	50	16	27	36	120	50	10	M12 x 1	1,0	397,00
KT . 050 . SF . 18 . 080	50	18	33	42	80	50	10	M12 x 1	0,9	329,00
KT . 050 . SF . 18 . 120	50	18	33	42	120	50	10	M12 x 1	1,3	397,00
KT . 050 . SF . 20 . 085	50	20	33	42	85	52	10	M16 x 1	0,9	329,00
KT . 050 . SF . 20 . 120	50	20	33	42	120	52	10	M16 x 1	1,3	397,00
KT . 050 . SF . 25 . 090	50	25	44	53	90	58	10	M16 x 1	1,2	329,00
KT . 050 . SF . 25 . 120	50	25	44	53	120	58	10	M16 x 1	1,6	397,00

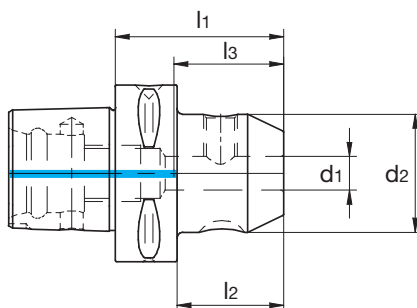
ISO
26623G 6,3
15.000 rpm

art.	KT	d1	d2	d3		l1	l2	l3		g	kg	€
KT . 063 . SF . 03 . 080	63	3	12	17		80	-	-		-	0,9	489,00
KT . 063 . SF . 04 . 080	63	4	12	17		80	-	-		-	0,9	489,00
KT . 063 . SF . 05 . 080	63	5	12	17		80	-	-		-	0,9	489,00
KT . 063 . SF . 06 . 080	63	6	21	27		80	36	10		M 5	1,0	411,00
KT . 063 . SF . 06 . 120	63	6	21	32		120	36	10		M 5	1,2	489,00
KT . 063 . SF . 06 . 160	63	6	21	32		160	36	10		M 5	1,5	533,00
KT . 063 . SF . 08 . 080	63	8	21	27		80	36	10		M 6	1,0	411,00
KT . 063 . SF . 08 . 120	63	8	21	32		120	36	10		M 6	1,2	489,00
KT . 063 . SF . 08 . 160	63	8	21	32		160	36	10		M 6	1,5	533,00
KT . 063 . SF . 10 . 080	63	10	24	32		80	41	10		M 8 x 1	1,0	411,00
KT . 063 . SF . 10 . 120	63	10	24	32		120	41	10		M 8 x 1	1,3	489,00
KT . 063 . SF . 10 . 160	63	10	24	34		160	41	10		M 8 x 1	1,6	533,00
KT . 063 . SF . 12 . 080	63	12	24	32		80	47	10		M10 x 1	1,0	411,00
KT . 063 . SF . 12 . 120	63	12	24	32		120	47	10		M10 x 1	1,3	489,00
KT . 063 . SF . 12 . 160	63	12	24	34		160	47	10		M10 x 1	1,6	533,00
KT . 063 . SF . 14 . 085	63	14	27	34		85	47	10		M10 x 1	1,1	411,00
KT . 063 . SF . 14 . 120	63	14	27	36		120	47	10		M10 x 1	1,4	489,00
KT . 063 . SF . 14 . 160	63	14	27	36		160	47	10		M10 x 1	1,7	533,00
KT . 063 . SF . 16 . 085	63	16	27	34		85	50	10		M12 x 1	1,1	411,00
KT . 063 . SF . 16 . 120	63	16	27	36		120	50	10		M12 x 1	1,3	489,00
KT . 063 . SF . 16 . 160	63	16	27	36		160	50	10		M12 x 1	1,6	533,00
KT . 063 . SF . 18 . 085	63	18	33	42		85	50	10		M12 x 1	1,2	411,00
KT . 063 . SF . 18 . 120	63	18	33	44		120	50	10		M12 x 1	1,6	489,00
KT . 063 . SF . 18 . 160	63	18	33	44		160	50	10		M12 x 1	2,1	533,00
KT . 063 . SF . 20 . 085	63	20	33	42		85	52	10		M16 x 1	1,2	411,00
KT . 063 . SF . 20 . 120	63	20	33	44		120	52	10		M16 x 1	1,6	489,00
KT . 063 . SF . 20 . 160	63	20	33	44		160	52	10		M16 x 1	2,0	533,00
KT . 063 . SF . 25 . 090	63	25	44	53		90	58	10		M16 x 1	1,6	411,00
KT . 063 . SF . 25 . 120	63	25	44	53		120	58	10		M16 x 1	2,0	489,00
KT . 063 . SF . 25 . 160	63	25	44	53		160	58	10		M16 x 1	2,7	533,00
KT . 063 . SF . 32 . 095	63	32	44	53		95	61	10		M16 x 1	1,5	411,00
KT . 063 . SF . 32 . 120	63	32	44	53		120	61	10		M16 x 1	1,9	489,00
KT . 063 . SF . 32 . 160	63	32	44	53		160	61	10		M16 x 1	2,5	533,00



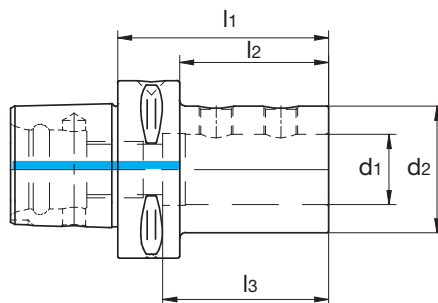
G 6,3
15.000 rpm

KT

ISO
26623G 6,3
15.000 rpm

art.	KT	d1	d2			l1	l2	l3		Tol./d1	kg	Form screw	€
KT . 032 . W . 06 . 045	32	6	25			45	30	35		+0.005	0,3	A	258,00
KT . 032 . W . 08 . 045	32	8	28			45	30	35		+0.005	0,3	A	258,00
KT . 032 . W . 10 . 050	32	10	35			50	35	39		+0.005	0,4	A	258,00
KT . 032 . W . 12 . 055	32	12	42			55	40	44		+0.005	1,1	A	258,00
KT . 040 . W . 06 . 050	40	6	25			50	30	35		+0.005	0,4	A	284,00
KT . 040 . W . 08 . 050	40	8	28			50	30	35		+0.005	0,4	A	284,00
KT . 040 . W . 10 . 050	40	10	35			50	30	39		+0.005	0,5	A	284,00
KT . 040 . W . 12 . 055	40	12	42			55	35	44		+0.005	1,1	A	284,00
KT . 040 . W . 14 . 055	40	14	44			55	35	44		+0.005	0,6	A	284,00
KT . 040 . W . 16 . 055	40	16	48			55	35	47		+0.005	0,7	A	284,00
KT . 050 . W . 06 . 050	50	6	25			50	30	35		+0.005	0,6	A	290,00
KT . 050 . W . 08 . 050	50	8	28			50	30	35		+0.005	0,6	A	290,00
KT . 050 . W . 10 . 055	50	10	35			55	35	39		+0.005	0,7	A	290,00
KT . 050 . W . 12 . 060	50	12	42			60	40	44		+0.005	1,1	A	290,00
KT . 050 . W . 14 . 060	50	14	44			60	40	44		+0.005	1,1	A	290,00
KT . 050 . W . 16 . 060	50	16	48			60	40	47		+0.005	0,9	A	290,00
KT . 050 . W . 18 . 060	50	18	50			60	50	47		+0.005	0,9	A	290,00
KT . 050 . W . 20 . 060	50	20	52			60	40	47		+0.007	0,9	A	290,00
KT . 050 . W . 25 . 085	50	25	65			85	60	54		+0.007	1,6	A	290,00
KT . 063 . W . 06 . 055	63	6	55			55	33	35		+0.005	0,9	A	320,00
KT . 063 . W . 08 . 055	63	8	55			55	33	35		+0.005	0,9	A	320,00
KT . 063 . W . 10 . 060	63	10	60			60	38	39		+0.005	1,0	A	320,00
KT . 063 . W . 12 . 060	63	12	60			60	38	44		+0.005	1,1	A	320,00
KT . 063 . W . 14 . 060	63	14	60			60	38	44		+0.005	1,2	A	320,00
KT . 063 . W . 16 . 065	63	16	65			65	43	47		+0.005	1,3	A	320,00
KT . 063 . W . 18 . 065	63	18	65			65	43	47		+0.005	1,3	A	320,00
KT . 063 . W . 20 . 065	63	20	65			65	43	49		+0.007	1,3	A	320,00
KT . 063 . W . 25 . 080	63	25	80			80	58	54		+0.007	1,9	A	320,00
KT . 063 . W . 32 . 090	63	32	90			90	68	58		+0.007	2,4	A	320,00
KT . 063 . W . 40 . 100	63	40	100			100	78	75		+0.007	2,8	A	320,00
KT . 080 . W . 06 . 070	80	6	70			70	40	35		+0.005	1,9	A	350,00
KT . 080 . W . 08 . 070	80	8	70			70	40	35		+0.005	1,9	A	350,00
KT . 080 . W . 10 . 070	80	10	70			70	40	39		+0.005	2,0	A	350,00
KT . 080 . W . 12 . 070	80	12	70			70	40	44		+0.005	1,1	A	350,00
KT . 080 . W . 14 . 070	80	14	70			70	40	44		+0.005	2,1	A	350,00
KT . 080 . W . 16 . 070	80	16	70			70	50	47		+0.005	2,2	A	350,00
KT . 080 . W . 18 . 070	80	18	70			70	40	47		+0.005	2,2	A	350,00
KT . 080 . W . 20 . 070	80	20	70			70	40	49		+0.007	2,2	A	350,00
KT . 080 . W . 25 . 080	80	25	80			80	50	54		+0.007	2,7	A	350,00
KT . 080 . W . 32 . 080	80	32	80			80	50	58		+0.007	2,8	A	350,00
KT . 080 . W . 40 . 110	80	40	110			110	80	75		+0.007	3,9	A	350,00
KT . 080 . W . 50 . 120	80	50	120			120	90	83		+0.007	5,4	A	350,00

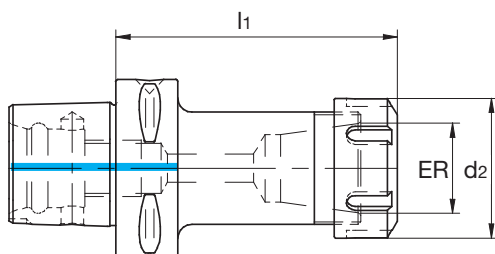
Clamping bolt pag. 179
Vite di serraggio KT pag. 179



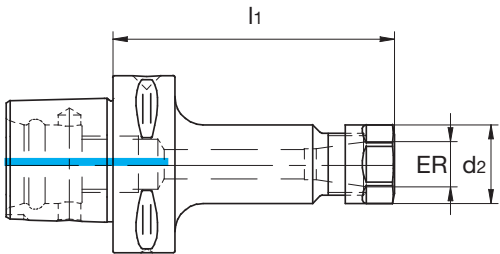
G 6,3
15.000 rpm

art.				KT	d1	d2			I1	I2	I3			kg		€
KT . 032 .	DH . 16 .	055	32	16	36			55	45	49				0,4		427,00
KT . 032 .	DH . 20 .	060	32	20	40			60	45	54				0,5		427,00
KT . 040 .	DH . 16 .	060	40	16	36			60	40	49				0,5		443,00
KT . 040 .	DH . 20 .	060	40	20	40			60	60	54				0,6		443,00
KT . 040 .	DH . 25 .	080	40	25	45			80	50	59				0,7		443,00
KT . 050 .	DH . 16 .	065	50	16	36			65	45	49				0,7		473,00
KT . 050 .	DH . 20 .	065	50	20	40			65	45	54				0,8		473,00
KT . 050 .	DH . 25 .	070	50	25	45			70	50	59				0,9		473,00
KT . 050 .	DH . 32 .	075	50	32	52			75	55	63				1,0		473,00
KT . 063 .	DH . 16 .	070	63	16	36			70	48	49				1,1		473,00
KT . 063 .	DH . 20 .	070	63	20	40			70	48	54				1,1		473,00
KT . 063 .	DH . 25 .	075	63	25	45			75	53	59				1,2		473,00
KT . 063 .	DH . 32 .	075	63	32	52			75	53	63				1,3		473,00
KT . 063 .	DH . 40 .	085	63	40	65			85	63	73				1,7		473,00
KT . 063 .	DH . 50 .	115	63	50	75			115	93	83				2,6		473,00
KT . 080 .	DH . 16 .	080	80	16	36			80	50	49				2,1		564,00
KT . 080 .	DH . 20 .	080	80	20	40			80	50	54				2,1		564,00
KT . 080 .	DH . 25 .	085	80	25	45			85	55	59				2,2		564,00
KT . 080 .	DH . 32 .	090	80	32	52			90	60	63				2,3		564,00
KT . 080 .	DH . 40 .	095	80	40	65			95	65	73				2,7		564,00
KT . 080 .	DH . 50 .	100	80	50	75			100	70	83				2,9		564,00

EVO | 117

ISO
26623G 6,3
15.000 rpm

art.	KT	ER	d2	L1	kg	€
KT . 032 . ER-N . 20 . 045	32	ER 20 (1 - 13)	34	45	0,2	227,00
KT . 040 . ER-N . 20 . 055	40	ER 20 (1 - 13)	34	55	0,3	244,00
KT . 040 . ER-N . 25 . 055	40	ER 25 (1 - 16)	42	55	0,4	244,00
KT . 040 . ER-N . 32 . 055	40	ER 32 (2 - 20)	50	55	0,4	244,00
KT . 050 . ER-N . 20 . 060	50	ER 20 (1 - 13)	34	60	0,5	258,00
KT . 050 . ER-N . 20 . 100	50	ER 20 (1 - 13)	34	100	0,7	320,00
KT . 050 . ER-N . 25 . 060	50	ER 25 (1 - 16)	42	60	0,6	258,00
KT . 050 . ER-N . 25 . 100	50	ER 25 (1 - 16)	42	100	0,8	320,00
KT . 050 . ER-N . 32 . 060	50	ER 32 (2 - 20)	50	60	0,6	274,00
KT . 050 . ER-N . 32 . 100	50	ER 32 (2 - 20)	50	100	0,9	336,00
KT . 050 . ER-N . 40 . 065	50	ER 40 (3 - 26)	63	65	0,6	284,00
KT . 050 . ER-N . 40 . 100	50	ER 40 (3 - 26)	63	100	1,2	345,00
KT . 063 . ER-N . 20 . 060	63	ER 20 (1 - 13)	34	60	0,9	258,00
KT . 063 . ER-N . 20 . 100	63	ER 20 (1 - 13)	34	100	1,0	320,00
KT . 063 . ER-N . 25 . 060	63	ER 25 (1 - 16)	42	60	0,9	258,00
KT . 063 . ER-N . 25 . 100	63	ER 25 (1 - 16)	42	100	1,1	320,00
KT . 063 . ER-N . 32 . 060	63	ER 32 (2 - 20)	50	60	0,9	274,00
KT . 063 . ER-N . 32 . 100	63	ER 32 (2 - 20)	50	100	1,3	336,00
KT . 063 . ER-N . 40 . 065	63	ER 40 (3 - 26)	63	65	1,0	284,00
KT . 063 . ER-N . 40 . 100	63	ER 40 (3 - 26)	63	100	1,5	345,00
KT . 080 . ER-N . 20 . 065	80	ER 20 (1 - 13)	34	65	1,8	350,00
KT . 080 . ER-N . 20 . 100	80	ER 20 (1 - 13)	34	100	1,9	457,00
KT . 080 . ER-N . 25 . 070	80	ER 25 (1 - 16)	42	70	1,9	350,00
KT . 080 . ER-N . 25 . 100	80	ER 25 (1 - 16)	42	100	2,0	457,00
KT . 080 . ER-N . 32 . 070	80	ER 32 (2 - 20)	50	70	1,9	350,00
KT . 080 . ER-N . 32 . 100	80	ER 32 (2 - 20)	50	100	2,1	457,00
KT . 080 . ER-N . 40 . 080	80	ER 40 (3 - 26)	63	80	2,0	350,00
KT . 080 . ER-N . 40 . 100	80	ER 40 (3 - 26)	63	100	2,3	457,00



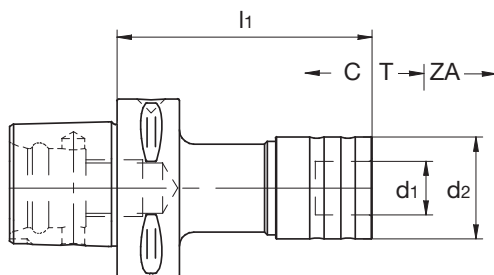
ISO
26623



G 6,3
15.000 rpm

art.	KT	ER	d2	l1	kg	€
KT . 032 . ER-S . 16 . 045	32	ER 16 (0.5 - 10)	28	45	0,2	227,00
KT . 040 . ER-S . 16 . 055	40	ER 16 (0.5 - 10)	28	55	0,3	244,00
KT . 050 . ER-S . 16 . 060	50	ER 16 (0.5 - 10)	28	60	0,5	258,00
KT . 050 . ER-S . 16 . 100	50	ER 16 (0.5 - 10)	28	100	0,7	304,00
KT . 063 . ER-S . 16 . 060	63	ER 16 (0.5 - 10)	28	60	0,9	258,00
KT . 063 . ER-S . 16 . 100	63	ER 16 (0.5 - 10)	28	100	1,1	304,00
KT . 080 . ER-S . 16 . 060	80	ER 16 (0.5 - 10)	28	60	1,8	290,00
KT . 080 . ER-S . 16 . 100	80	ER 16 (0.5 - 10)	28	100	2,0	336,00

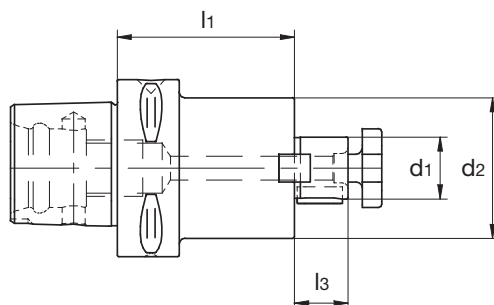
KT

ISO
26623

art.	KT	M	d1	d2	l1	C	T	ZA		kg	€
KT . 032 . TH . 01 . 090	32	M 3 - M14	19	36	90	5	8	2,1		0,7	717,00
KT . 040 . TH . 01 . 090	40	M 3 - M14	19	36	90	5	8	2,1		0,8	763,00
KT . 040 . TH . 03 . 125	40	M 4.5 - M24	31	53	125	8,5	15	2,8		1,2	870,00
KT . 050 . TH . 01 . 090	50	M 3 - M14	19	36	90	5	8	2,1		1,2	809,00
KT . 050 . TH . 03 . 130	50	M 4.5 - M24	31	53	130	8,5	15	2,8		1,8	916,00
KT . 063 . TH . 01 . 090	63	M 3 - M14	19	36	90	5	8	2,1		2,1	839,00
KT . 063 . TH . 03 . 135	63	M 4.5 - M24	31	53	135	8,5	15	2,8		2,6	962,00
KT . 080 . TH . 01 . 090	80	M 3 - M14	19	36	90	5	8	2,1		3,5	932,00
KT . 080 . TH . 03 . 125	80	M 4.5 - M24	31	53	125	8,5	15	2,8		4,0	1.055,00

Lenght compensation on Compression and Tension

Compensazione assiale in Compressione ed in Trazione



ISO
26623



G 6,3
15.000 rpm

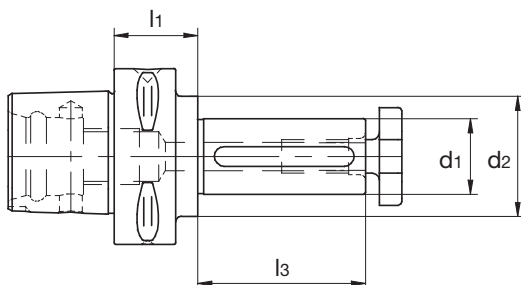
art.	KT	d1	d2			l1		l3			kg	€
KT . 040 . SM . 16 . 028	40	16	40			28		17			0,4	274,00
KT . 040 . SM . 16 . 063	40	16	40			63		17			0,7	290,00
KT . 040 . SM . 22 . 040	40	22	50			40		19			0,6	274,00
KT . 040 . SM . 22 . 063	40	22	50			63		19			0,9	290,00

KT . 050 . SM . 16 . 028	50	16	40			28		17			0,6	274,00
KT . 050 . SM . 16 . 063	50	16	40			63		17			0,9	290,00
KT . 050 . SM . 22 . 028	50	22	50			28		19			0,6	274,00
KT . 050 . SM . 22 . 063	50	22	50			63		19			1,1	290,00
KT . 050 . SM . 27 . 032	50	27	50			32		21			0,8	274,00
KT . 050 . SM . 27 . 063	50	27	50			63		21			1,3	290,00
KT . 050 . SM . 32 . 040	50	32	63			40		24			1,0	274,00
KT . 050 . SM . 32 . 063	50	32	63			63		24			1,4	290,00

KT . 063 . SM . 16 . 063	63	16	40			63		17			1,2	304,00
KT . 063 . SM . 22 . 028	63	22	63			28		19			0,9	290,00
KT . 063 . SM . 22 . 063	63	22	50			63		19			1,4	304,00
KT . 063 . SM . 27 . 028	63	27	58			28		21			1,0	290,00
KT . 063 . SM . 27 . 063	63	27	58			63		21			1,7	304,00
KT . 063 . SM . 32 . 022	63	32	63			22		24			0,9	290,00
KT . 063 . SM . 32 . 086	63	32	63			86		24			2,3	304,00
KT . 063 . SM . 40 . 040	63	40	70			40		27			1,5	336,00

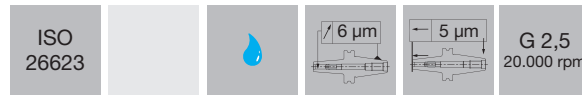
KT . 080 . SM . 16 . 063	80	16	40			63		17			2,2	359,00
KT . 080 . SM . 22 . 030	80	22	50			30		19			1,7	346,00
KT . 080 . SM . 22 . 063	80	22	50			63		19			2,4	359,00
KT . 080 . SM . 27 . 030	80	27	58			30		21			1,8	346,00
KT . 080 . SM . 27 . 063	80	27	58			63		21			2,6	359,00
KT . 080 . SM . 32 . 030	80	32	63			30		24			1,8	346,00
KT . 080 . SM . 32 . 086	80	32	62			86		24			3,2	359,00
KT . 080 . SM . 40 . 040	80	40	70			40		27			2,3	346,00

Clamping bolt pag. 179 - keys for cutter retaining screw pag. 180
Vite di serraggio pag. 179 - Chiave per serraggio mandrini portafresa pag. 180



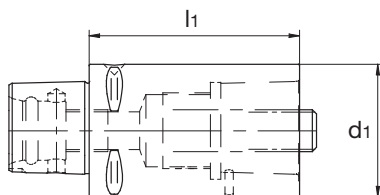
art.	KT	d1	d2			l1		l3			kg		€
KT . 032 . SM-L . 16 . 020	32	16	28			20		30			0,2		274,00
KT . 040 . SM-L . 16 . 025	40	16	28			25		30			0,4		290,00
KT . 040 . SM-L . 22 . 025	40	22	36			25		40			0,4		290,00
KT . 040 . SM-L . 27 . 025	40	27	40			25		60			0,6		290,00
KT . 050 . SM-L . 16 . 025	50	16	28			25		30			0,5		290,00
KT . 050 . SM-L . 22 . 025	50	22	36			25		40			0,6		290,00
KT . 050 . SM-L . 27 . 025	50	27	43			25		60			0,7		290,00
KT . 050 . SM-L . 32 . 025	50	32	50			25		60			0,8		290,00
KT . 063 . SM-L . 16 . 030	63	16	28			30		30			0,9		290,00
KT . 063 . SM-L . 22 . 030	63	22	36			30		40			1,0		290,00
KT . 063 . SM-L . 27 . 030	63	27	43			30		60			1,1		290,00
KT . 063 . SM-L . 32 . 025	63	32	48			25		60			1,1		290,00
KT . 063 . SM-L . 40 . 025	63	40	56			25		60			1,3		290,00
KT . 080 . SM-L . 16 . 040	80	16	28			40		30			1,9		336,00
KT . 080 . SM-L . 22 . 040	80	22	36			40		40			1,9		336,00
KT . 080 . SM-L . 27 . 030	80	27	43			30		60			2,0		336,00
KT . 080 . SM-L . 32 . 030	80	32	48			30		60			2,0		336,00
KT . 080 . SM-L . 40 . 030	80	40	56			30		60			2,2		336,00
KT . 080 . SM-L . 50 . 030	80	50	70			30		60			2,5		336,00
KT . 080 . SM-L . 60 . 030	80	60	60			30		60			2,7		336,00

Clamping bolt pag. 179 - Keys for cutter retaining screw pag. 180
Vite di serraggio KT pag. 179 - Chiave per serraggio mandrini portafresa pag. 180

KTEVO | 123

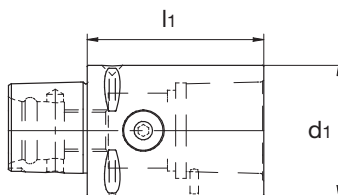
KT-AE

with axial clamping
con bloccaggio assiale



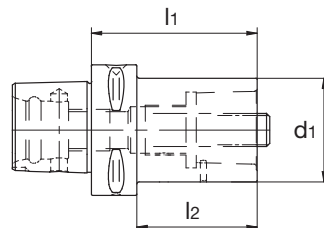
KT-RE

with radial clamping
con bloccaggio radiale



KT-CR

with cylindrical reduction
con riduzione cilindrica



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KT-AE

art.	KT	d1	l1								kg	€
KT . 032 . KT-AE . 32 . 060	32	32	60								0,3	428,00
KT . 032 . KT-AE . 32 . 080	32	32	80								0,5	428,00
KT . 040 . KT-AE . 40 . 060	40	40	60								0,5	470,00
KT . 040 . KT-AE . 40 . 080	40	40	80								0,7	470,00
KT . 050 . KT-AE . 50 . 080	50	50	80								1,0	491,00
KT . 050 . KT-AE . 50 . 100	50	50	100								1,3	491,00
KT . 063 . KT-AE . 63 . 100	63	63	100								2,0	523,00
KT . 063 . KT-AE . 63 . 140	63	63	140								2,9	523,00
KT . 080 . KT-AE . 80 . 100	80	80	100								3,4	616,00
KT . 080 . KT-AE . 80 . 125	80	80	125								4,3	596,00

KT-RE

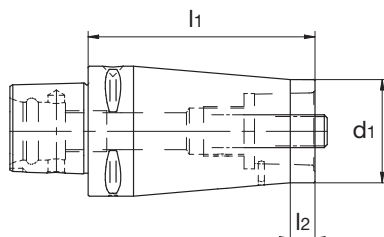
art.	KT	d1	l1								kg	€
KT . 032 . KT-RE . 32 . 055	32	32	55								0,4	523,00
KT . 040 . KT-RE . 40 . 070	40	40	70								0,6	636,00
KT . 050 . KT-RE . 50 . 075	50	50	75								1,0	804,00
KT . 063 . KT-RE . 63 . 085	63	63	85								1,7	844,00
KT . 080 . KT-RE . 80 . 100	80	80	100								3,4	1.043,00

KT-CR

art.	KT	d1	l1	l2							kg	€
KT . 040 . KT-CR . 32 . 055	40	32	55	35							0,4	447,00
KT . 050 . KT-CR . 32 . 060	50	32	60	40							0,6	478,00
KT . 050 . KT-CR . 40 . 065	50	40	65	45							0,7	478,00
KT . 063 . KT-CR . 32 . 070	63	32	70	48							1,0	499,00
KT . 063 . KT-CR . 40 . 080	63	40	80	58							1,2	499,00
KT . 063 . KT-CR . 50 . 080	63	50	80	58							1,4	499,00
KT . 080 . KT-CR . 32 . 060	80	32	60	30							1,9	523,00
KT . 080 . KT-CR . 40 . 070	80	40	70	40							2,0	523,00
KT . 080 . KT-CR . 50 . 080	80	50	80	50							2,2	523,00
KT . 080 . KT-CR . 63 . 080	80	63	80	50							2,3	523,00
KT . 08X . KT-CR . 63 . 080	80X	63	80	48							3,4	604,00
KT . 08X . KT-CR . 80 . 100	80X	80	100	68							4,4	636,00

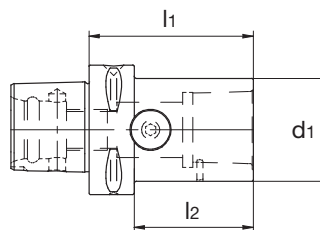
KT-TR

with tapered reduction
con riduzione conica



KT-RR

reduction with radial clamping
riduzione con bloccaggio radiale



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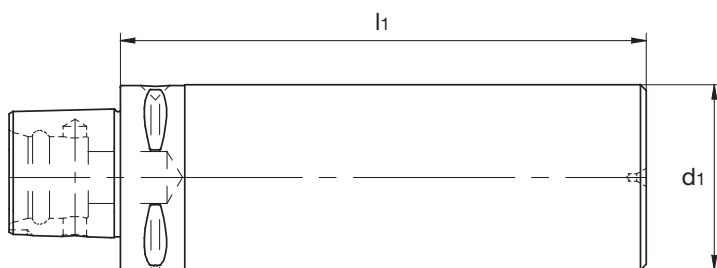
KT-TR

art.	KT	d1	l1	l2							kg	€
KT . 040 . KT-TR . 32 . 070	40	32	70	12							0,6	447,00
KT . 050 . KT-TR . 40 . 085	50	40	85	12							1,0	478,00
KT . 063 . KT-TR . 50 . 110	63	50	110	12							2,1	499,00
KT . 080 . KT-TR . 63 . 120	80	63	120	12							3,7	563,00
KT . 08X . KT-TR . 80 . 150	80X	80	150	12							4,4	709,00

KT-RR

art.	KT	d1	l1	l2							kg	€
KT . 063 . KT-RR . 40 . 075	63	40	75	53							1,2	771,00
KT . 063 . KT-RR . 50 . 080	63	50	80	58							1,4	771,00
KT . 080 . KT-RR . 50 . 080	80	50	80	50							2,1	815,00
KT . 080 . KT-RR . 63 . 090	80	63	90	60							2,5	897,00

Clamping bolt pag. 179
Vite di serraggio pag. 179

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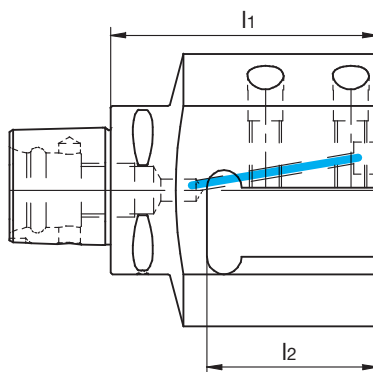
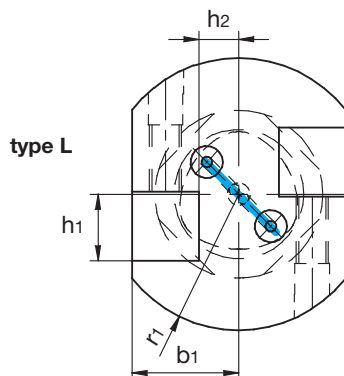
art.	KT	d1					l1					kg		€
KT . 040 . TB . 40 . 095	40	40					95					1,0		212,00
KT . 040 . TB . 40 . 120	40	40					120					1,3		227,00
KT . 040 . TB . 60 . 165	40	60					165					3,5		244,00
KT . 040 . TB . 80 . 075	40	80					75					2,5		274,00
KT . 040 . TB . 80 . 120	40	80					120					4,2		290,00
KT . 040 . TB . 100 . 085	40	100					85					4,3		304,00
KT . 050 . TB . 50 . 125	50	50					125					2,1		244,00
KT . 050 . TB . 50 . 150	50	50					150					2,5		258,00
KT . 050 . TB . 75 . 175	50	75					175					5,8		290,00
KT . 050 . TB . 90 . 080	50	90					80					3,5		304,00
KT . 050 . TB . 95 . 150	50	95					150					7,7		320,00
KT . 050 . TB . 110 . 090	50	110					90					5,7		304,00
KT . 063 . TB . 63 . 180	63	63					180					4,7		290,00
KT . 063 . TB . 75 . 195	63	75					195					6,8		304,00
KT . 063 . TB . 110 . 085	63	110					85					5,5		304,00
KT . 063 . TB . 120 . 180	63	120					180					14,8		457,00
KT . 063 . TB . 130 . 095	63	130					95					8,4		350,00
KT . 080 . TB . 80 . 200	80	80					200					8,5		478,00
KT . 080 . TB . 120 . 160	80	120					160					13,3		478,00
KT . 080 . TB . 130 . 090	80	130					90					8,0		458,00
KT . 080 . TB . 145 . 200	80	145					200					23,8		518,00



KT . 063 .	BH . 06 .	075	63	6	40			75	53	40			1,3		350,00
KT . 063 .	BH . 08 .	075	63	8	44			75	53	40			1,4		350,00
KT . 063 .	BH . 10 .	075	63	10	44			75	53	45			1,4		350,00
KT . 063 .	BH . 12 .	075	63	12	44			75	53	45			1,3		350,00
KT . 063 .	BH . 16 .	075	63	16	44			75	53	45			1,3		350,00
KT . 063 .	BH . 20 .	075	63	20	50			75	53	51			1,4		350,00
KT . 063 .	BH . 25 .	075	63	25	55			75	53	51			1,5		350,00
KT . 063 .	BH . 32 .	075	63	32	72			75	52	60			2,1		350,00
KT . 063 .	BH . 40 .	105	63	40	70			105	82	90			2,4		350,00



EVO



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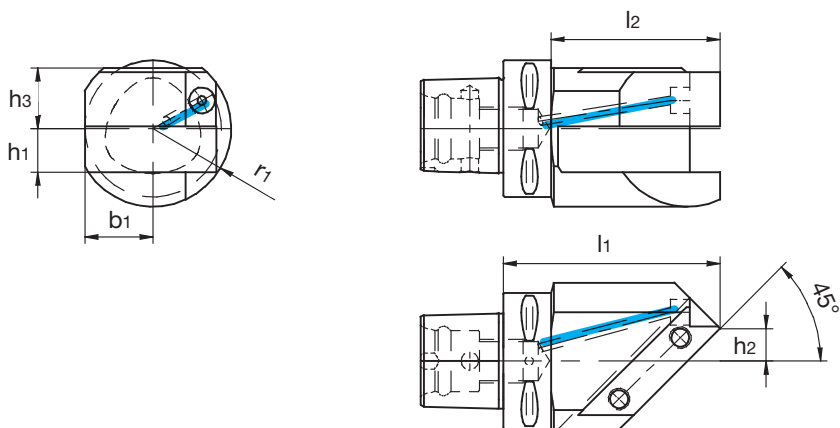


art.		KT	h1	l1	l2	R/L	r1	h2				b1		kg	€
KT . 050 .	DT-R .20. 080	50	20	80	53	R	45	15				35		2,6	671,00
KT . 050 .	DT-L .20. 080	50	20	80	53	L	45	15				35		2,6	671,00
KT . 050 .	DT-R .25. 090	50	25	90	64	R	51	15				40		3,5	686,00
KT . 050 .	DT-L .25. 090	50	25	90	64	L	51	15				40		3,5	686,00
KT . 050 .	DT-R .32. 115	50	32	115	90	R	61	15				47		6,1	702,00
KT . 050 .	DT-L .32. 115	50	32	115	90	L	61	15				47		6,1	702,00
KT . 063 .	DT-R .20. 090	63	20	90	53	R	45	15				35		3,3	702,00
KT . 063 .	DT-L .20. 090	63	20	90	53	L	45	15				35		3,3	702,00
KT . 063 .	DT-R .25. 100	63	25	100	64	R	51	15				40		4,3	717,00
KT . 063 .	DT-L .25. 100	63	25	100	64	L	51	15				40		4,3	717,00
KT . 063 .	DT-R .32. 125	63	32	125	90	R	61	15				47		7,0	732,00
KT . 063 .	DT-L .32. 125	63	32	125	90	L	61	15				47		7,0	732,00
KT . 080 .	DT-R .20. 090	80	20	90	53	R	45	15				35		4,0	839,00
KT . 080 .	DT-L .20. 090	80	20	90	53	L	45	15				35		4,0	839,00
KT . 080 .	DT-R .25. 100	80	25	100	64	R	51	15				40		4,9	855,00
KT . 080 .	DT-L .25. 100	80	25	100	64	L	51	15				40		4,9	855,00
KT . 080 .	DT-R .32. 125	80	32	125	90	R	61	15				47		7,5	870,00
KT . 080 .	DT-L .32. 125	80	32	125	90	L	61	15				47		7,5	870,00



art.		KT	h1	l1	l2	R/L	r1	h2				b1		kg	€
KT . 050 .	TT-R .20. 080	50	20	80	53	R	45	15				35		2,2	902,00
KT . 050 .	TT-L .20. 080	50	20	80	53	L	45	15				35		2,2	902,00
KT . 050 .	TT-R .25. 090	50	25	90	64	R	51	15				40		2,8	916,00
KT . 050 .	TT-L .25. 090	50	25	90	64	L	51	15				40		2,8	916,00
KT . 050 .	TT-R .32. 115	50	32	115	90	R	61	15				47		4,6	948,00
KT . 050 .	TT-L .32. 115	50	32	115	90	L	61	15				47		4,6	948,00
KT . 063 .	TT-R .20. 090	63	20	90	53	R	45	15				35		2,9	1.055,00
KT . 063 .	TT-L .20. 090	63	20	90	53	L	45	15				35		2,9	1.055,00
KT . 063 .	TT-R .25. 100	63	25	100	64	R	51	15				40		3,6	1.101,00
KT . 063 .	TT-L .25. 100	63	25	100	64	L	51	15				40		3,6	1.101,00
KT . 063 .	TT-R .32. 125	63	32	125	90	R	61	15				47		5,5	1.130,00
KT . 063 .	TT-L .32. 125	63	32	125	90	L	61	15				47		5,5	1.130,00
KT . 080 .	TT-R .20. 090	80	20	90	53	R	45	15				35		3,5	1.268,00
KT . 080 .	TT-L .20. 090	80	20	90	53	L	45	15				35		3,5	1.268,00
KT . 080 .	TT-R .25. 100	80	25	100	64	R	51	15				40		4,2	1.298,00
KT . 080 .	TT-L .25. 100	80	25	100	64	L	51	15				40		4,2	1.298,00
KT . 080 .	TT-R .32. 125	80	32	125	90	R	61	15				47		6,0	1.329,00
KT . 080 .	TT-L .32. 125	80	32	125	90	L	61	15				47		6,0	1.329,00

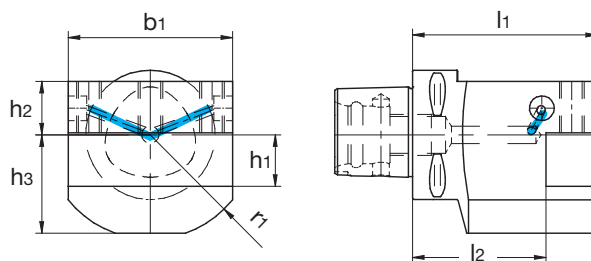
type R



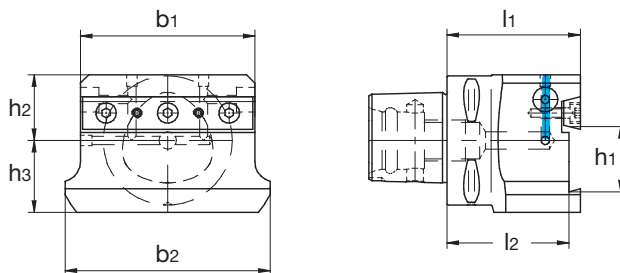
ISO
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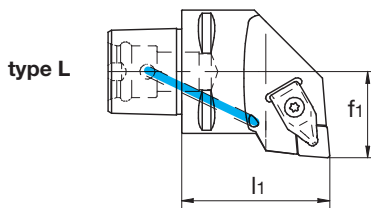
art.	KT	h1	l1	l2	R/L	r1	h2	h3		b1		kg	€
KT . 050 . T45-R . 20 . 100	50	20	100	80	R	36	15	26		31		1,9	397,00
KT . 050 . T45-L . 20 . 100	50	20	100	80	L	36	15	26		31		1,9	397,00
KT . 063 . T45-R . 20 . 100	63	20	100	78	R	36	15	28		32		2,2	473,00
KT . 063 . T45-L . 20 . 100	63	20	100	78	L	36	15	28		32		2,2	473,00
KT . 080 . T45-R . 32 . 135	80	32	135	105	R	70	17	40		45		6,6	727,00
KT . 080 . T45-L . 32 . 135	80	32	135	105	L	70	17	40		45		6,6	727,00

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art.	KT	h1	l1	l2	r1	h2	h3	b1	kg	€
KT . 050 . RT . 20 . 070	50	20	70	50	45	69	43	70	2,0	397,00
KT . 050 . RT . 25 . 080	50	25	80	55	51	74	48	80	2,6	411,00
KT . 050 . RT . 32 . 090	50	32	90	58	61	81	55	90	3,4	443,00
KT . 063 . RT . 20 . 080	63	20	80	60	45	69	43	70	2,6	457,00
KT . 063 . RT . 25 . 090	63	25	90	65	51	74	48	80	3,3	489,00
KT . 063 . RT . 32 . 100	63	32	100	68	61	81	55	90	4,3	518,00
KT . 080 . RT . 20 . 080	80	20	80	60	45	69	43	70	3,4	489,00
KT . 080 . RT . 25 . 090	80	25	90	65	51	74	48	80	4,0	518,00
KT . 080 . RT . 32 . 100	80	32	100	68	61	81	55	90	4,9	550,00

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art.	KT	h1	l1	l2	h2	h3	b1	b2	kg	€
KT . 063 . GR . 26 . 065	63	26	65	60	30	30	75	91	2,4	687,00
KT . 063 . GR . 32 . 065	63	32	65	88	32	35	85	100	2,7	687,00



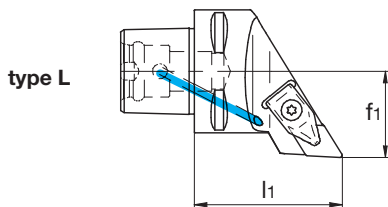
ISO
26623



art.	KT	f1	l1							R/L	Insert type	kg	€
KT . 040 . T95-CNMG-12-R . 050	40	27	50							R	CNMG 120408	0,5	270,00
KT . 040 . T95-CNMG-12-L . 050	40	27	50							L	CNMG 120408	0,5	270,00
KT . 050 . T95-CNMG-12-R . 060	50	35	60							R	CNMG 120408	0,9	331,00
KT . 050 . T95-CNMG-12-L . 060	50	35	60							L	CNMG 120408	0,9	331,00
KT . 063 . T95-CNMG-12-R . 065	63	45	65							R	CNMG 120408	1,4	347,00
KT . 063 . T95-CNMG-12-L . 065	63	45	65							L	CNMG 120408	1,4	347,00

Turning tool 93° for DNMG 15
Utensile di tornitura 93° per DNMG 15

T93 DNMG15



ISO
26623

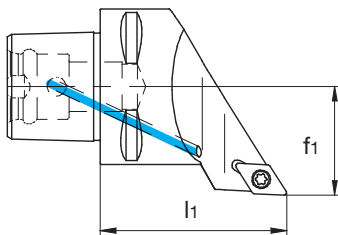


art.	KT	f1	l1							R/L	Insert type	kg	€
KT . 040 . T93-DNMG-15-R . 055	40	27	55							R	DNMG 150608	0,4	270,00
KT . 040 . T93-DNMG-15-L . 055	40	27	55							L	DNMG 150608	0,4	270,00
KT . 050 . T93-DNMG-15-R . 060	50	35	60							R	DNMG 150608	0,7	331,00
KT . 050 . T93-DNMG-15-L . 060	50	35	60							L	DNMG 150608	0,7	331,00
KT . 063 . T93-DNMG-15-R . 065	63	45	65							R	DNMG 150608	1,1	347,00
KT . 063 . T93-DNMG-15-L . 065	63	45	65							L	DNMG 150608	1,1	347,00

T93 DCMT11

Turning tool 93° for DCMT 11 Utensile di tornitura 93° per DCMT 11

type L



ISO
26623

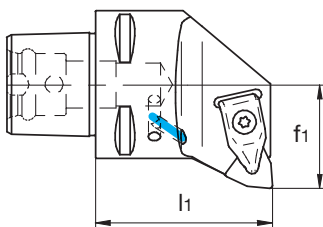


art.	KT	f1	l1							R/L	Insert type	kg	€
KT . 040 . T93-DCMT-11-R . 050	40	27	50							R	DCMT 11T308	0,4	270,00
KT . 040 . T93-DCMT-11-L . 050	40	27	50							L	DCMT 11T308	0,4	270,00
KT . 050 . T93-DCMT-11-R . 060	50	35	60							R	DCMT 11T308	0,7	331,00
KT . 050 . T93-DCMT-11-L . 060	50	35	60							L	DCMT 11T308	0,7	331,00
KT . 063 . T93-DCMT-11-R . 065	63	45	65							R	DCMT 11T308	1,1	347,00
KT . 063 . T93-DCMT-11-L . 065	63	45	65							L	DCMT 11T308	1,1	347,00

T95 WNMG08

Turning tool 95° for WNMG 08 Utensile di tornitura 95° per WNMG 08

type L

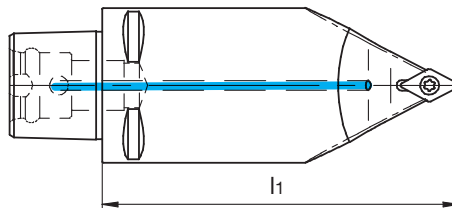


ISO
26623



art.	KT	f1	l1							R/L	Insert type	kg	€
KT . 040 . T95-WNMG-08-R . 050	40	27	50							R	WNMG 080408	0,5	270,00
KT . 040 . T95-WNMG-08-L . 050	40	27	50							L	WNMG 080408	0,5	270,00
KT . 050 . T95-WNMG-08-R . 060	50	35	60							R	WNMG 080408	0,9	331,00
KT . 050 . T95-WNMG-08-L . 060	50	35	60							L	WNMG 080408	0,9	331,00
KT . 063 . T95-WNMG-08-R . 065	63	45	65							R	WNMG 080408	1,5	347,00
KT . 063 . T95-WNMG-08-L . 065	63	45	65							L	WNMG 080408	1,5	347,00

type L



ISO
26623

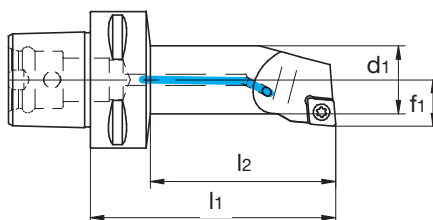


art.	KT	l1								Insert type	kg	€
KT . 040 . T62.5-DCMT-11 . 139	40	115								DCMT 11T308	1,0	388,00
KT . 050 . T62.5-DCMT-11 . 145	50	115								DCMT 11T308	1,5	448,00
KT . 063 . T62.5-DCMT-11 . 153	63	115								DCMT 11T308	3,1	464,00

Boring bar 95° for CCMT 09
Utensile di barenatura 95° per CCMT 09

B95 CCMT09

type L

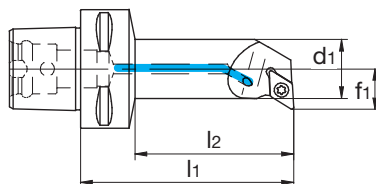


ISO
26623



art.	KT	f1	l1	l2	d1					R/L		kg	€
KT . 040 . B95-CCMT-09-R . 080	40	13	80	57	20					R		0,4	369,00
KT . 040 . B95-CCMT-09-L . 080	40	13	80	57	20					L		0,4	369,00
KT . 050 . B95-CCMT-09-R . 090	50	17	90	68	25					R		0,7	448,00
KT . 050 . B95-CCMT-09-L . 090	50	17	90	68	25					L		0,7	448,00

type L

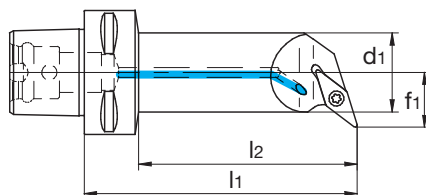


ISO
26623



art.	KT	f1	l1	l2	d1					R/L	Insert type	kg	€
KT . 040 . B93-DCMT-11-R . 080	40	13	80	57	20					R	DCMT 11T308	0,4	369,00
KT . 040 . B93-DCMT-11-L . 080	40	13	80	57	20					L	DCMT 11T308	0,4	369,00
KT . 050 . B93-DCMT-11-R . 090	50	17	90	67	25					R	DCMT 11T308	0,7	448,00
KT . 050 . B93-DCMT-11-L . 090	50	17	90	67	25					L	DCMT 11T308	0,7	448,00
KT . 050 . B93-DCMT-11-R . 110	50	22	110	67	25					R	DCMT 11T308	1,0	448,00
KT . 050 . B93-DCMT-11-L . 110	50	22	110	67	25					L	DCMT 11T308	1,0	448,00

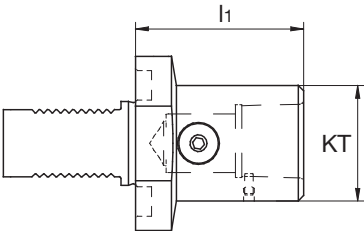
type L



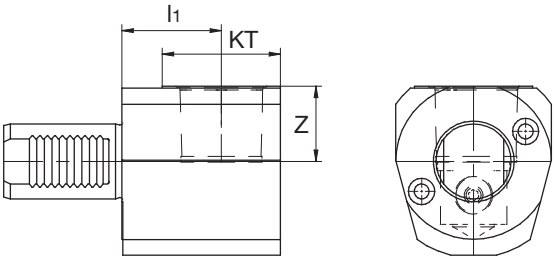
ISO
26623



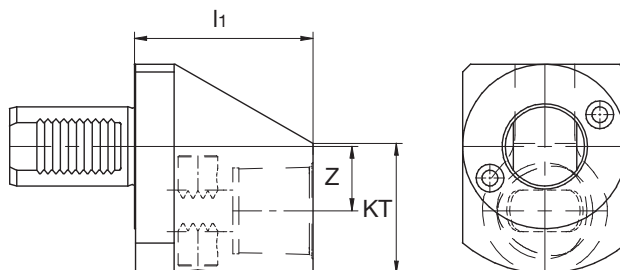
art.	KT	f1	l1	l2	d1					R/L	Insert type	kg	€
KT . 040 . B1075-VCMT16R . 090	40	18	90	68	25					R	VCMT 160408	0,5	465,00
KT . 040 . B1075-VCMT16L . 090	40	18	90	68	25					L	VCMT 160408	0,5	465,00
KT . 050 . B1075-VCMT16R . 110	50	22	110	88	32					R	VCMT 160408	0,9	539,00
KT . 050 . B1075-VCMT16L . 110	50	22	110	88	32					L	VCMT 160408	0,9	539,00
KT . 063 . B1075-VCMT16R . 120	63	22	120	94	32					R	VCMT 160408	1,3	583,00
KT . 063 . B1075-VCMT16L . 120	63	22	120	94	32					L	VCMT 160408	1,3	583,00
KT . 063 . B1075-VCMT16R . 145	63	27	145	120	40					R	VCMT 160408	1,9	583,00
KT . 063 . B1075-VCMT16L . 145	63	27	145	120	40					L	VCMT 160408	1,9	583,00



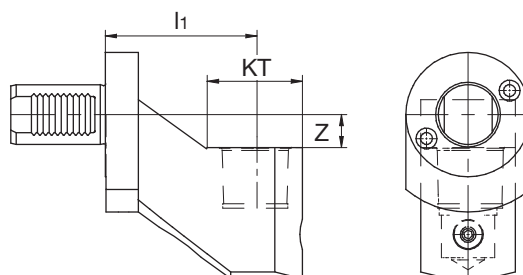
art.	VDI	KT	l1									kg	€
VDI . 040 . KT-A . 40 . 070	40	40	70									1,9	835,00
VDI . 040 . KT-A . 50 . 080	40	50	80									2,2	894,00
VDI . 040 . KT-A . 63 . 090	40	63	90									2,9	971,00



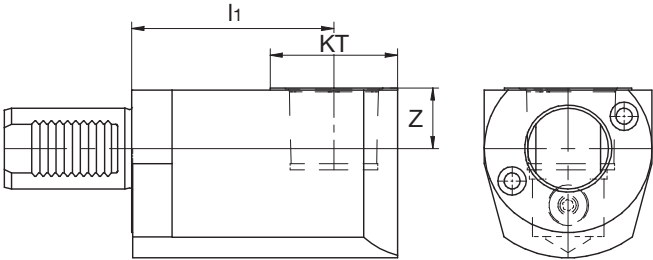
art.	VDI	KT	l1	Z								kg	€
VDI . 040 . KT-RX . 40 . 051	40	40	51	30								2,8	1.012,00
VDI . 040 . KT-RX . 50 . 053	40	50	53	30								3,5	1.089,00
VDI . 040 . KT-RX . 63 . 053	40	63	53	40								4,5	1.148,00



art.	VDI	KT	l1	Z								kg	€
VDI . 040 . KT-AX . 40 . 070	40	40	70	21								1,9	1.012,00
VDI . 040 . KT-AX . 50 . 080	40	50	80	26								2,6	1.127,00
VDI . 040 . KT-AX . 63 . 090	40	63	90	32.5								3,5	1.206,00

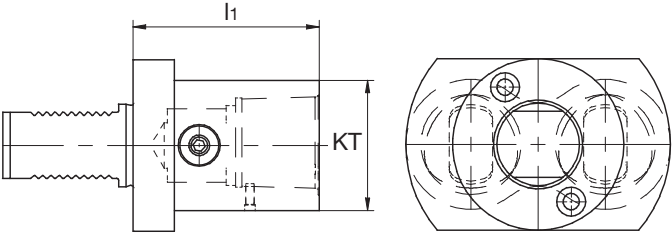


art.	VDI	KT	l1	Z								kg	€
VDI . 040 . KT-RI . 40 . 100	40	40	100	20								3,6	1.419,00
VDI . 040 . KT-RI . 50 . 100	40	50	100	20								4,3	1.497,00
VDI . 040 . KT-RI . 63 . 100	40	63	100	22								5,2	1.751,00

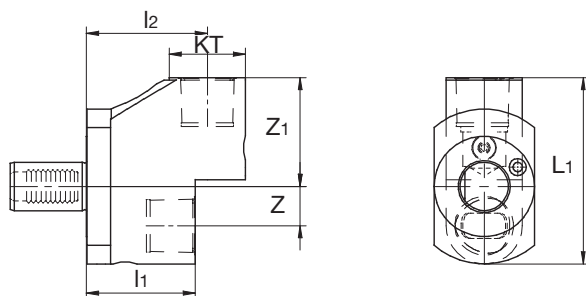


art.	VDI	KT	l1	Z									kg	€
VDI . 040 . KT-RS . 40 . 100	40	40	100	42									4,1	1.068,00
VDI . 040 . KT-RS . 50 . 100	40	50	100	30									4,0	1.108,00
VDI . 040 . KT-RS . 63 . 100	40	63	100	30									4,7	1.166,00

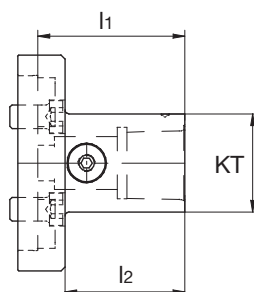
KT adapter vertical - double
Adattatore verticale KT - doppio



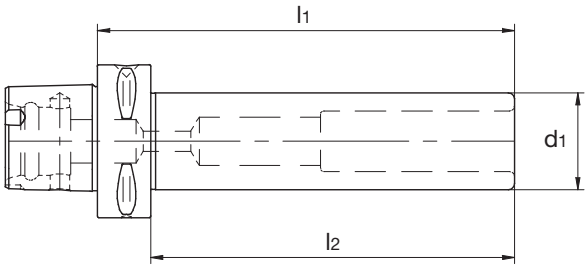
art.	VDI	KT	l1										kg	€
VDI . 040 . KT-VD . 63 . 090	40	63	90										4,8	1.692,00



art.	VDI	KT	I1	I2	Z	Z1	L1	kg	€
VDI . 040 . KT-VH . 63 . 090	40	63	90	100	32,5	90	154	6,2	1.809,00

KT-RE
DIN2079 adapter with radial clamping
Adattatore DIN2079 con bloccaggio radiale


art.	DIN 2079	KT	I1	I2							kg	€
DIN2079 . 040 . KT-RE . 32 . 041	40	32	41	65							1,4	1.457,00
DIN2079 . 040 . KT-RE . 40 . 051	40	40	51	75							1,5	1.457,00
DIN2079 . 040 . KT-RE . 50 . 061	40	50	61	85							2,0	1.457,00
DIN2079 . 050 . KT-RE . 63 . 069	50	63	69	104							4,3	1.536,00
DIN2079 . 050 . KT-RE . 80 . 079	50	80	79	114							5,1	1.633,00



ISO
26623



art.	KT	d1	l1	l2								kg	€
KT . 032 . TA . 25 . 175	32	25	175	160								0,8	873,00
KT . 040 . TA . 25 . 180	40	25	180	160								0,9	969,00
KT . 050 . TA . 32 . 235	50	32	235	215								1,4	1.036,00
KT . 063 . TA . 40 . 322	63	40	322	300								2,8	1.091,00
KT . 080 . TA . 40 . 330	80	40	330	300								3,8	1.308,00

TOOL HOLDERS





CE-HY



Hydraulic chuck extension
Prolunga cilindrica idraulica

					G 2,5 25.000 rpm
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144

CE-EM



Cylindrical chuck for ER mini collet
Mandrino cilindrico per pinze ER mini

DIN 1835 A					
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145

CE-EN

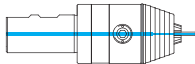


Cylindrical chuck for ER collet
Mandrino cilindrico per pinze ER

DIN 1835 A					
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146

W . UDC

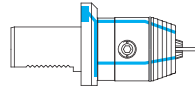


Drill chuck with Weldon attachment
Portapunte con attacco Weldon

DIN 1835	Form B				G 6,3 25.000 rpm
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147

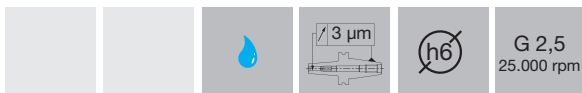
VDI . UDC

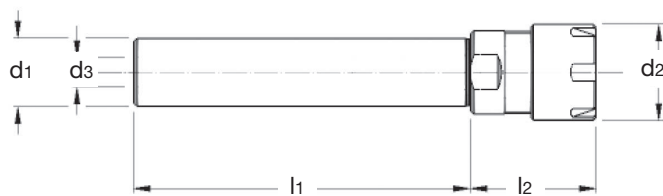


Drill chuck VDI with front coolant
Portapunte VDI con refrigerante frontale

DIN 69880	Form B				G 6,3 25.000 rpm
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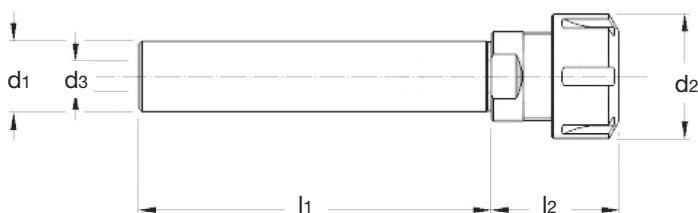
147



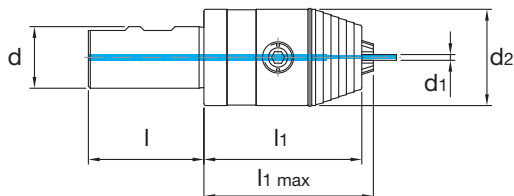
DIN
1835 A

art.	d1 h6	d2	d3	I1	I2	ER						€
CIL. 06 .CE-EM.12. 045	06	12	-	45	24	ER8 (1-5)						59,00
CIL. 08 .CE-EM.16. 055	08	16	-	55	25	ER11 (1-7)						59,00
CIL. 08 .CE-EM.16. 100	08	16	-	100	25	ER11 (1-7)						66,00
CIL. 10 .CE-EM.16. 100	10	16	5	100	25	ER11 (1-7)						62,00
CIL. 12 .CE-EM.16. 100	12	16	7	100	25	ER11 (1-7)						62,00
CIL. 16 .CE-EM.16. 100	16	16	7	100	22	ER11 (1-7)						66,00
CIL. 16 .CE-EM.16. 160	16	16	7	160	22	ER11 (1-7)						80,00
CIL. 16 .CE-EM.22. 100	16	22	7	100	37	ER16 (1-10)						67,00
CIL. 16 .CE-EM.22. 160	16	22	7	160	37	ER16 (1-10)						80,00
CIL. 20 .CE-EM.22. 100	20	22	11	100	30	ER16 (1-10)						67,00
CIL. 20 .CE-EM.22. 160	20	22	11	160	30	ER16 (1-10)						80,00
CIL. 20 .CE-EM.28. 100	20	28	11	100	37	ER16 (1-13)						68,00
CIL. 20 .CE-EM.28. 160	20	28	11	160	37	ER16 (1-13)						80,00
CIL. 25 .CE-EM.22. 060	25	22	11	60	27	ER16 (1-10)						68,00
CIL. 25 .CE-EM.22. 100	25	22	11	100	27	ER16 (1-10)						70,00
CIL. 32 .CE-EM.22. 090	32	22	11	90	30	ER16 (1-10)						88,00

CYLINDRICS

DIN
1835 A

art.	d1 h6	d2	d3	l1	l2	ER					€
CIL. 16 . CE-EN . 32 . 100	16	32	7	100	36	ER16 (1-10)					70,00
CIL. 16 . CE-EN . 32 . 160	16	32	7	160	36	ER16 (1-10)					86,00
CIL. 20 . CE-EN . 32 . 100	20	32	11	100	31	ER16 (1-10)					68,00
CIL. 20 . CE-EN . 32 . 160	20	32	11	160	31	ER16 (1-10)					79,00
CIL. 20 . CE-EN . 35 . 100	20	35	11	100	36	ER20 (1-13)					68,00
CIL. 20 . CE-EN . 35 . 160	20	35	11	160	36	ER20 (1-13)					79,00
CIL. 25 . CE-EN . 42 . 100	25	42	13	100	32	ER25 (1-16)					75,00
CIL. 25 . CE-EN . 50 . 070	25	50	13	70	54	ER32 (2-20)					70,00
CIL. 25 . CE-EN . 50 . 130	25	50	13	130	54	ER32 (2-20)					80,00
CIL. 32 . CE-EN . 42 . 070	32	42	19	70	28	ER25 (1-16)					74,00
CIL. 32 . CE-EN . 42 . 120	32	42	19	120	28	ER25 (1-16)					80,00
CIL. 32 . CE-EN . 50 . 070	32	50	23	70	38	ER32 (2-20)					70,00
CIL. 32 . CE-EN . 50 . 100	32	50	23	100	38	ER32 (2-20)					75,00
CIL. 32 . CE-EN . 50 . 120	32	50	23	120	38	ER32 (2-20)					81,00
CIL. 32 . CE-EN . 63 . 070	32	63	23	70	60	ER40 (3-30)					91,00
CIL. 40 . CE-EN . 50 . 070	40	50	23	70	30	ER32 (2-20)					75,00
CIL. 40 . CE-EN . 50 . 130	40	50	23	130	30	ER32 (2-20)					93,00



DIN
1835

Form
B



G 6,3
25.000 rpm

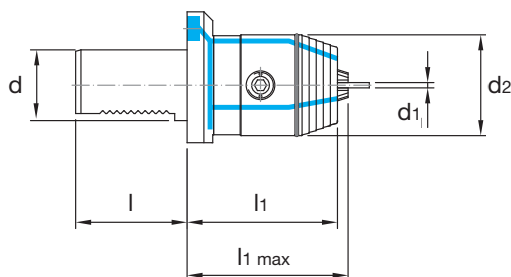
art.	d x l	d1	d2	l1	l1 max	kg	Wrench T Code codice chiave T				€
CIL-W . 020 . UDC . 36 . 059	20x50	0,3-8	36	59	62	0,8	A-WPI.040				493,00
CIL-W . 020 . UDC . 50 . 082	20x50	0,5-13	50	82	88	1,1	A-WPI.060				483,00
CIL-W . 025 . UDC . 57 . 087	25x56	2,5-16	57	87	93	1,4	A-WPI.060				501,00

Gasket included

Guarnizione inclusa

Drill chuck VDI with front coolant Portapunte VDI con refrigerante frontale

VDI . UDC



DIN
69880

Form
B



G 6,3
25.000 rpm

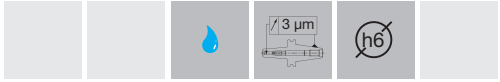
art.	d x l	d1	d2	l1	l1 max	kg	Wrench T Code codice chiave T				€
CIL-VDI . 16 . UDC . 40 . 060	16x32	0,3-8	40	60	63	0,6	A-WPI.040				660,00
CIL-VDI . 20 . UDC . 40 . 060	20x40	0,3-8	40	60	63	0,7	A-WPI.040				631,00
CIL-VDI . 25 . UDC . 40 . 060	25x48	0,3-8	40	60	63	0,8	A-WPI.040				651,00
CIL-VDI . 30 . UDC . 40 . 060	30x55	0,3-8	40	60	63	1,0	A-WPI.040				631,00
CIL-VDI . 40 . UDC . 40 . 065	40x63	0,3-8	40	65	68	1,7	A-WPI.040				641,00
CIL-VDI . 20 . UDC . 57 . 082	20x40	0,5-13	57	82	88	1,7	A-WPI.060				543,00
CIL-VDI . 25 . UDC . 57 . 082	25x48	0,5-13	57	82	88	1,7	A-WPI.060				583,00
CIL-VDI . 30 . UDC . 57 . 082	30x55	0,5-13	57	82	88	2,1	A-WPI.060				530,00
CIL-VDI . 40 . UDC . 57 . 085	40x63	0,5-13	57	85	91	2,6	A-WPI.060				550,00
CIL-VDI . 50 . UDC . 57 . 085	50x78	0,5-13	57	85	91	3,4	A-WPI.060				574,00
CIL-VDI . 30 . UDC . 57 . 082	30x55	2,5-16	57	82	93	2,1	A-WPI.060				549,00
CIL-VDI . 40 . UDC . 57 . 085	40x63	2,5-16	57	85	96	2,6	A-WPI.060				569,00
CIL-VDI . 50 . UDC . 57 . 085	50x78	2,5-16	57	85	96	3,4	A-WPI.060				601,00
CIL-VDI . 60 . UDC . 57 . 093	60x94	2,5-16	57	93	104	4,9	A-WPI.060				659,00



CE-SF



Cylindrical extension shrink fit
Prolunga cilindrica a calettare



152

CE-SF-R



Cylindrical extension shrink fit - reduced
Prolunga cilindrica a calettare - scaricata

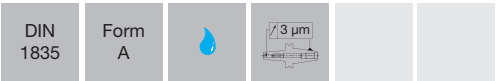


153

CE-SF-S



Cylindrical extension shrink fit - slim version
Prolunga cilindrica a calettare - versione snella

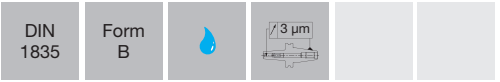


154

CE-ER



Cylindrical extension ER collets
Prolunga cilindrica portapinze ER



154

CE-SI



Cylindrical extension screw-in milling cutters
Prolunga cilindrica portatestine



155

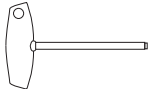
Shrink fit accessories
Accessori calettamento a caldo

A - SF



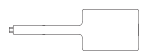
Adjustment screw | Vite di regolazione (Forma A)
Adjustment screw | Vite di regolazione (Forma B)

156



Wrench for adjustment screw
Chiave per vite di regolazione

156



Presetting adapter for shrink fit
Adattatore di presettaggio per calettamento a caldo

157



Hydraulic chuck accessories Accessori mandrini idraulici

A - HY/HYF



Hydraulic chuck reduction bushes
Bussole di riduzione per mandrini idraulici

158



Adjustment screw
Vite di regolazione

159



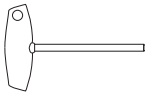
Adjustment screw - long
Vite di regolazione - lunga

159



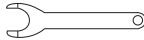
Adjusting screw for hydraulic chuck type KT.HY
Vite di regolazione per mandrino idraulico tipo KT.HY

159



Wrench for pressure initiation
Chiave di serraggio per mandrino idraulico

160



Wrench for adjustment screw
Chiave per vite di regolazione

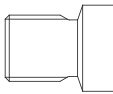
160

A - HYF



Screw for pressure initiation
Vite di pressione per mandrino idraulico

161



Adjustment screw | Vite di regolazione
For HSK/SK
For BT

161

Collets Pinze

A - ER 8/11



Waterlight
Tenuta stagna

with square for tapping
con quadro per maschiatura

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

162

A - ER 16



Waterlight
Tenuta stagna

with coolant holes
con fori refrigerante

with square for tapping
con quadro per maschiatura

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

163

A - ER 20



Waterlight
Tenuta stagna

with coolant holes
con fori refrigerante

with square for tapping
con quadro per maschiatura

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

164
165



Collets
Pinze

A - ER 25



Set of waterlight ER collets
Serie di pinze ER a tenuta stagna

Waterlight
Tenuta stagna

with coolant holes
con fori refrigerante

with square for tapping
con quadro per maschiatura

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

166
167

Set of high precision waterlight ER collets
Serie di pinze ER ultraprecise a tenuta stagna

A - ER 32



Set of waterlight ER collets
Serie di pinze ER a tenuta stagna

Waterlight
Tenuta stagna

with coolant holes
con fori refrigerante

with square for tapping
con quadro per maschiatura

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

168
169

Set of high precision waterlight ER collets
Serie di pinze ER ultraprecise a tenuta stagna

A - ER 40



Waterlight
Tenuta stagna

with coolant holes
con fori refrigerante

with square for tapping
con quadro per maschiatura

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

170
171
172

Nuts
Ghiere



Mini clamping nuts | Ghiere mini

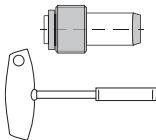
Exagonal clamping nuts | Ghiere esagonali

Cylindrical clamping nuts | Ghiere cilindriche

173

Various accessories
Accessori vari

A - HSK



Coolant Tube for HSK
Adduttore refrigerante per HSK

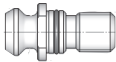
DIN69893-A/E

Wrench for coolant tube
Chiave per adduttore refrigerante

174



Pull studs
Codoli



DIN69872 - without hole
DIN69872 - senza foro
DIN69872 - without hole with OR
DIN69872 - senza foro con OR
DIN69872 - with hole and OR
DIN69872 - con foro e OR

175

ISO 7388 2 type A - without hole
ISO 7388 2 tipo A - senza foro
ISO 7388 2 type A - without hole with OR
ISO 7388 2 tipo A - senza foro con OR
ISO 7388 2 type A - with hole and OR
ISO 7388 2 tipo A - con foro e OR

176

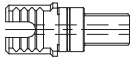
ISO 7388 2 type B - without hole with OR
ISO 7388 2 tipo B - senza foro con OR
ISO 7388 2 type B - with hole and OR
ISO 7388 2 tipo B - con foro e OR

177

MAS BT - without hole
MAS BT - senza foro
MAS BT - without hole with OR
MAS BT - senza foro con OR
MAS BT - with hole and OR
MAS BT - con foro e OR

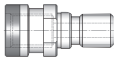
178

JIS B 6339 - with hole
JIS B 6339 - con foro



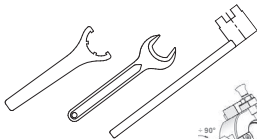
Clamping bolts
Vite di serraggio
for KT holder with hole and OR
per mandrini KT con foro e OR

179



Adaptor stud
Adattatore per tirante

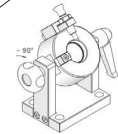
179



Wrench for clamping nuts and cutter retaining screw
Chiavi per serraggio ghiera e per portafrese a manicotto

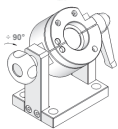
180

Mounting units | Supporti di montaggio

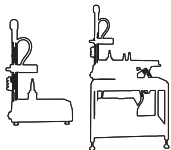


for DIN69871 and MAS BT
per DIN69871 e MAS BT

180



for HSK
per HSK

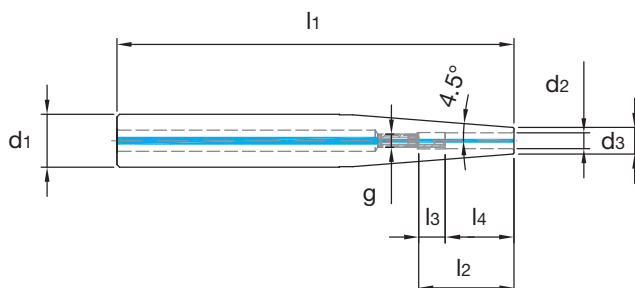


Shrinking device and cooling module
Macchina di calettamento e modulo di raffreddamento

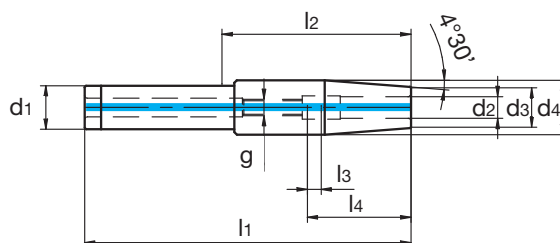
181



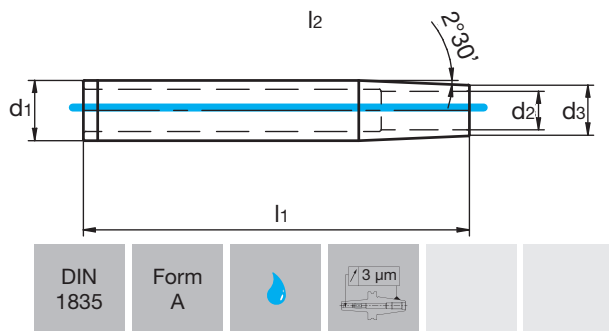
Adapter flanges
Flange di adattamento



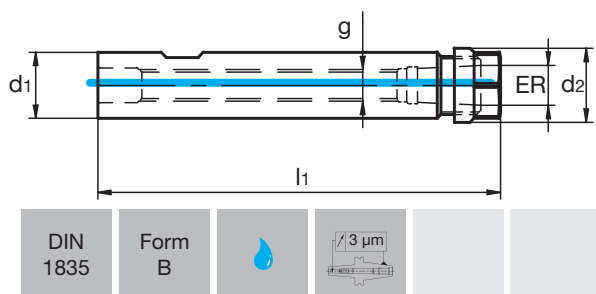
art.	d1 h6	d2	d3	l1	l2	l3	l4	g	kg	€
CE . 12 . SF .03. 150	12	3	8	150			12		0,1	143,00
CE . 12 . SF .04. 150	12	4	8	150			16		0,1	143,00
CE . 12 . SF .05. 150	12	5	10	150			20		0,1	143,00
CE . 12 . SF .06. 150	12	6	10	150	36	10	26	M5	0,1	143,00
CE . 16 . SF .03. 150	16	3	10	150			12		0,2	143,00
CE . 16 . SF .04. 150	16	4	10	150			16		0,2	143,00
CE . 16 . SF .05. 150	16	5	10	150			20		0,2	143,00
CE . 16 . SF .06. 150	16	6	10	150	36	10	26	M5	0,2	143,00
CE . 16 . SF .08. 150	16	8	12	150	36	10	26	M6	0,2	143,00
CE . 20 . SF .03. 150	20	3	10	150			12		0,3	143,00
CE . 20 . SF .04. 150	20	4	10	150			16		0,3	143,00
CE . 20 . SF .05. 150	20	5	10	150			20		0,3	143,00
CE . 20 . SF .06. 150	20	6	10	150	36	10	26	M5	0,3	143,00
CE . 20 . SF .08. 150	20	8	12	150	36	10	26	M6	0,3	143,00
CE . 20 . SF .10. 150	20	10	14	150	42	10	32	M6	0,3	143,00
CE . 20 . SF .12. 150	20	12	16	150	47	10	37	M10X1	0,3	143,00
CE . 25 . SF .03. 150	25	3	10	150			12		0,5	143,00
CE . 25 . SF .04. 150	25	4	10	150			16		0,5	143,00
CE . 25 . SF .05. 150	25	5	15	150			20		0,5	143,00
CE . 25 . SF .06. 150	25	6	20	150	36	10	26	M5	0,5	143,00
CE . 25 . SF .08. 150	25	8	20	150	36	10	26	M6	0,5	143,00
CE . 25 . SF .10. 150	25	10	20	150	42	10	32	M6	0,5	143,00
CE . 25 . SF .12. 150	25	12	20	150	47	10	37	M10X1	0,5	143,00
CE . 25 . SF .14. 150	25	14	20	150	47	10	37	M10X1	0,4	143,00
CE . 25 . SF .16. 150	25	16	22	150	50	10	40	M10X1	0,4	143,00
CE . 32 . SF .06. 150	32	6	20	150	36	10	26	M5	0,8	143,00
CE . 32 . SF .08. 150	32	8	20	150	36	10	26	M6	0,8	143,00
CE . 32 . SF .10. 150	32	10	24	150	42	10	32	M6	0,8	143,00
CE . 32 . SF .12. 150	32	12	24	150	47	10	37	M10X1	0,8	143,00
CE . 32 . SF .14. 150	32	14	27	150	47	10	37	M10X1	0,8	143,00
CE . 32 . SF .16. 150	32	16	27	150	50	10	40	M10X1	0,8	143,00
CE . 32 . SF .18. 150	32	18	27	150	50	10	40	M10X1	0,7	143,00
CE . 32 . SF .20. 150	32	20	27	150	52	10	42	M10X1	0,7	143,00

DIN
1835Form
A

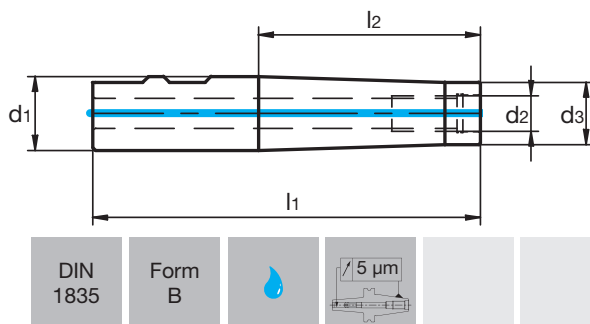
art.		d1 h6	d2	d3	d4	l1	l2	l3	l4	g	kg		€
CE . 16 . SF-R .06. 120		16	6	15	20	120	70	10	36	M 5	0.3		130,00
CE . 16 . SF-R .08. 120		16	8	15	20	120	70	10	36	M 6	0.3		130,00
CE . 20 . SF-R .06. 160		20	6	15	19.9	160	110	10	36	M 5	0.4		130,00
CE . 20 . SF-R .08. 160		20	8	15	19.9	160	110	10	36	M 6	0.4		130,00
CE . 20 . SF-R .10. 160		20	10	18	24	160	110	10	41	M 8 x 1	0.5		130,00
CE . 25 . SF-R .10. 160		25	10	18	24.9	160	110	10	41	M 8 x 1	0.4		130,00
CE . 25 . SF-R .12. 160		25	12	18	24.9	160	110	10	47	M10 x 1	0.4		130,00
CE . 32 . SF-R .12. 160		32	12	18	32	160	-	10	47	M10 x 1	0.5		130,00
CE . 32 . SF-R .14. 160		32	14	21	32	160	-	10	47	M10 x 1	0.5		130,00
CE . 32 . SF-R .16. 160		32	16	21	32	160	-	10	53	M12 x 1	0.6		130,00
CE . 32 . SF-R .20. 160		32	20	27	32	160	-	10	55	M16 x 1	0.5		130,00



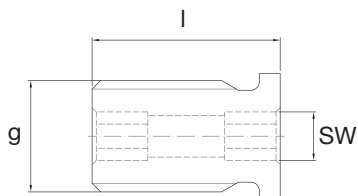
art.	d1 h6	d2	d3	l1	kg	€
CE . 12 . SF-S .03. 160	12	3	8	160	0.1	162,00
CE . 12 . SF-S .04. 160	12	4	9	160	0.1	162,00
CE . 16 . SF-S .03. 160	16	3	8	160	0.2	162,00
CE . 16 . SF-S .04. 160	16	4	9	160	0.2	162,00
CE . 16 . SF-S .05. 160	16	5	10	160	0.2	162,00
CE . 16 . SF-S .06. 160	16	6	11	160	0.2	162,00
CE . 20 . SF-S .06. 160	20	6	11	160	0.3	162,00
CE . 20 . SF-S .06. 300	20	6	11	300	0.5	258,00
CE . 20 . SF-S .08. 160	20	8	13	160	0.3	162,00
CE . 20 . SF-S .08. 300	20	8	13	300	0.5	258,00
CE . 20 . SF-S .10. 160	20	10	15	160	0.2	162,00
CE . 20 . SF-S .12. 160	20	12	17	160	0.2	162,00
CE . 25 . SF-S .10. 160	25	10	15	160	0.3	162,00
CE . 25 . SF-S .10. 300	25	10	15	300	0.8	258,00
CE . 25 . SF-S .12. 160	25	12	17	160	0.4	162,00
CE . 25 . SF-S .12. 300	25	12	17	300	0.7	258,00
CE . 25 . SF-S .14. 160	25	14	19	160	0.4	162,00
CE . 25 . SF-S .16. 300	25	16	21	300	0.6	258,00
CE . 32 . SF-S .20. 300	32	20	25	300	1.0	185,00



art.	d1 h6	ER	d2	l1	g	Kg	Form	€
CE . 20 . ER .11. 145	20	ER 11 (0.5 - 7)	19	145	M 8	0.3	B	261,00
CE . 25 . ER .16. 155	25	ER 16 (0.5 - 10)	28	155	M12	0.3	B	393,00



art.					d1 h6	d2	d3	l1	l2					kg			€
CE . 20 . SI . 08 . 075				20	M 8	13	75	25						0,2			187,00
CE . 20 . SI . 08 . 100				20	M 8	13	100	50						0,2			202,00
CE . 20 . SI . 08 . 125				20	M 8	13	125	75						0,3			212,00
CE . 20 . SI . 10 . 075				20	M10	18	75	25						0,2			187,00
CE . 20 . SI . 10 . 100				20	M10	18	100	50						0,2			202,00
CE . 20 . SI . 10 . 125				20	M10	18	125	75						0,3			212,00
CE . 25 . SI . 12 . 081				25	M12	21	81	25						0,3			202,00
CE . 25 . SI . 12 . 131				25	M12	21	131	75						0,4			212,00
CE . 25 . SI . 12 . 181				25	M12	21	181	125						0,6			227,00
CE . 32 . SI . 16 . 085				32	M16	29	85	25						0,5			187,00
CE . 32 . SI . 16 . 135				32	M16	29	135	75						0,8			212,00
CE . 32 . SI . 16 . 185				32	M16	29	185	125						1			227,00

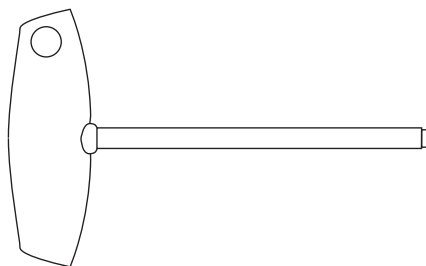


Adjustment screw | Vite di regolazione (Forma A)

art.	SW	l	kg	g								€
A-AS . SF . M5	2,0	14,0	0,002	M5								12,00
A-AS . SF . M5B	2,5	12,5	0,001	M5B								20,00
A-AS . SF . M6	2,0	14,0	0,001	M6								20,00
A-AS . SF . M6	3,0	12,5	0,002	M6								20,00
A-AS . SF . M8X1	3,0	13,5	0,004	M8X1								20,00
A-AS . SF . M10X1	5,0	13,5	0,006	M10X1								20,00
A-AS . SF . M12X1	5,0	13,5	0,011	M12X1								20,00
A-AS . SF . M16X1	5,0	13,5	0,017	M16X1								23,00
A-AS . SF . M16X1	8,0	13,5	0,021	M16X1								23,00

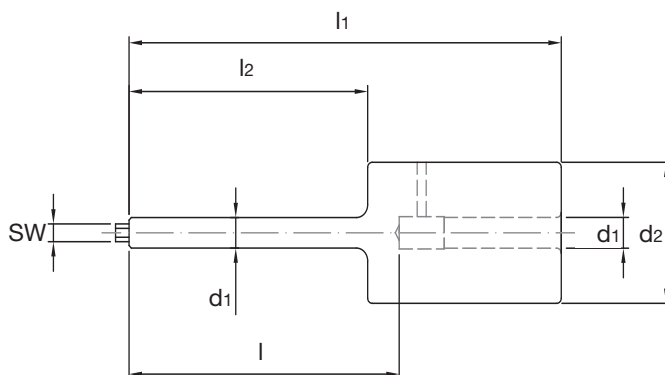
Adjustment screw | Vite di regolazione (Forma B)

art.	SW	l	d1	g								€
A-AS . SF .06/07	2,5	20	6/7	M5								28,00
A-AS . SF .08/09	3,0	20	8/9	M6								28,00
A-AS . SF .10	3,0	12	10	M8x1								28,00
A-AS . SF .10/11	3,0	17	10/11	M8x1								28,00
A-AS . SF .12/14B	4,0	20	12/14	M10x1								28,00
A-AS . SF .16/18	4,0	19	16/18	M12x1								28,00
A-AS . SF .20/25/32	4,0	20	20/25/32	M16x1								28,00



Wrench for adjustment screw | Chiave per vite di regolazione

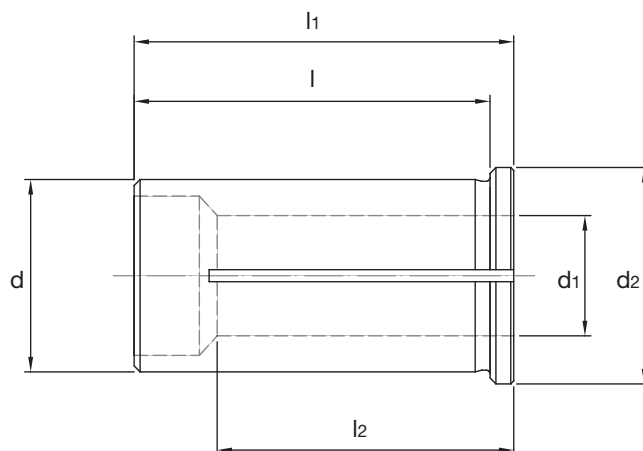
art.	SW	l	kg									€
A-WAAS .020	2,0	200	0,02									15,00
A-WAAS .025	2,5	150	0,02									14,00
A-WAAS .030	3,0	150	0,02									15,00
A-WAAS .050	5,0	150	0,06									15,00
A-WAAS .080	8,0	150	0,10									19,00



art.	d1	d2	I	I1	I2	SW	For	kg					€
A . PA . 03 .SF. 65	3	15	40	65	30	2	Shrink fit	-					220,00
A . PA . 04 .SF. 65	4	15	40	65	30	2	Shrink fit	-					249,00
A . PA . 05 .SF. 65	5	15	40	65	30	2	Shrink fit	-					220,00
A . PA . 06 .SF. 96	6	25	40	96	53	2,5	Shrink fit	0,2					229,00
A . PA . 08 .SF. 96	8	25	60	96	53	3	Shrink fit	0,2					229,00
A . PA . 10 .SF. 101	10	25	60	101	53	3	Shrink fit	0,2					229,00
A . PA . 12 .SF. 107	12	25	60	107	53	5	Shrink fit	0,2					229,00
A . PA . 14 .SF. 107	14	25	60	107	53	5	Shrink fit	0,2					229,00
A . PA . 16 .SF. 110	16	25	60	110	53	5	Shrink fit	0,3					229,00
A . PA . 18 .SF. 110/5	18	25	60	110	53	5	Shrink fit	0,3					229,00
A . PA . 20 .SF. 112/5	20	28	60	112	53	5	HSK 50-63	0,3					229,00
A . PA . 20 .SF. 112/8	20	28	60	112	53	8	HSK 80-100/SK/BT	0,3					229,00
A . PA . 25 .SF. 128/5	25	32	70	128	63	5	Shrink fit HSK 63	-					220,00
A . PA . 25 .SF. 128/8	25	32	70	128	63	8	HSK 80-100/SK/BT	-					249,00
A . PA . 32 .SF. 132/5	32	40	70	132	63	5	HSK 63	-					220,00
A . PA . 32 .SF. 132/8	32	40	70	132	63	8	HSK 80-100/SK/BT	-					220,00

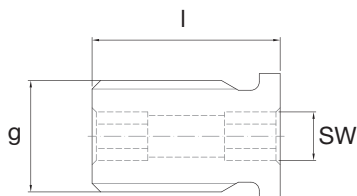
With presetting adapter you can easily preset the tool length before starting the shrinking process . They are suitable for all shrink fit chucks equipped with an adjustment . Working carefully you will achieve a precision of $\pm 0,02$ mm after the shrinking process

Con l'adattatore di presettaggio è possibile settare la lunghezza dell'utensile prima del processo di calettamento . E' utilizzabile per tutti i mandrini a calettamento forniti di vite di regolazione assiale. Lavorando accuratamente sarà possibile ottenere una precisione di +/- 0,02 mm dopo il processo di calettamento.



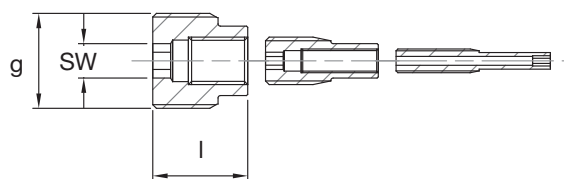
art.	d	d1	d2	l	l1	l2	€
A . HY-HYF . RB . 12 . 030	12	3	16	40	44	29	152,00
A . HY-HYF . RB . 12 . 040	14	4	16	40	44	29	131,00
A . HY-HYF . RB . 12 . 050	12	5	16	40	44	29	131,00
A . HY-HYF . RB . 12 . 060	12	6	16	40	44	36	122,00
A . HY-HYF . RB . 12 . 080	12	8	16	40	44	37	122,00
A . HY-HYF . RB . 12 . 100	12	10	16	40	44	40	122,00
A . HY-HYF . RB . 20 . 030	20	3	25	50	54	28	137,00
A . HY-HYF . RB . 20 . 040	20	4	25	50	54	28	128,00
A . HY-HYF . RB . 20 . 050	20	5	25	50	54	28	128,00
A . HY-HYF . RB . 20 . 060	20	6	25	50	54	36	118,00
A . HY-HYF . RB . 20 . 080	20	8	25	50	54	37	118,00
A . HY-HYF . RB . 20 . 100	20	10	25	50	54	40	118,00
A . HY-HYF . RB . 20 . 120	20	12	25	50	54	45	118,00
A . HY-HYF . RB . 20 . 140	20	14	25	50	54	45	118,00
A . HY-HYF . RB . 20 . 160	20	16	25	50	54	48	118,00
A . HY-HYF . RB . 25 . 030	25	3	30	56	60	29	187,00
A . HY-HYF . RB . 25 . 040	25	4	30	56	60	29	170,00
A . HY-HYF . RB . 25 . 050	25	5	30	56	60	29	170,00
A . HY-HYF . RB . 25 . 060	25	6	30	56	60	37	170,00
A . HY-HYF . RB . 25 . 070	25	7	30	56	60	37	153,00
A . HY-HYF . RB . 25 . 080	25	8	30	56	60	37	153,00
A . HY-HYF . RB . 25 . 090	25	9	30	56	60	38	153,00
A . HY-HYF . RB . 25 . 100	25	10	30	56	60	40	153,00
A . HY-HYF . RB . 25 . 120	25	12	30	56	60	46	153,00
A . HY-HYF . RB . 25 . 140	25	14	30	56	60	47	153,00
A . HY-HYF . RB . 25 . 160	25	16	30	56	60	48	153,00
A . HY-HYF . RB . 25 . 180	25	18	30	56	60	48	153,00
A . HY-HYF . RB . 25 . 200	25	20	30	56	60	50	153,00
A . HY-HYF . RB . 32 . 060	32	6	36	60	64	36	150,00
A . HY-HYF . RB . 32 . 080	32	8	36	60	64	36	156,00
A . HY-HYF . RB . 32 . 100	32	10	36	60	64	40	150,00
A . HY-HYF . RB . 32 . 120	32	12	36	60	64	45	143,00
A . HY-HYF . RB . 32 . 140	32	14	36	60	64	46	143,00
A . HY-HYF . RB . 32 . 160	32	16	36	60	64	48	143,00
A . HY-HYF . RB . 32 . 180	32	18	36	60	64	49	143,00
A . HY-HYF . RB . 32 . 200	32	20	36	60	64	50	143,00
A . HY-HYF . RB . 32 . 250	32	25	36	60	64	56	143,00

also for HYF chuck | anche per mandrini HYF



Adjustment screw | Vite di regolazione

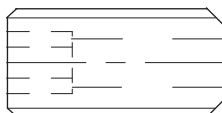
art.	SW	l	kg	g		€
A-AS . HY . 01	2,5	12,5	0,001	M5		20,00
A-AS . HY . 02	3,0	12,5	0,002	M6		20,00
A-AS . HY . 03	3,0	13,5	0,004	M8X1		20,00
A-AS . HY . 04	5,0	13,5	0,006	M10X1		20,00
A-AS . HY . 05	5,0	13,5	0,011	M12X1		20,00
A-AS . HY . 06	5,0	13,5	0,017	M16X1		23,00
A-AS . HY . 07	8,0	13,5	0,021	M16X1		23,00



Adjustment screw - long | Vite di regolazione - lunga

art.	SW	l	d1	g	For reduction bushes	€
A-ASL . HY .01	2,5	16	0,002	M10X1	For D.12	23,00
A-ASL . HY .03	5,0	16	0,002	M16X1	For D.20	23,00
A-ASL . HY .04	2,5	19	0,002	M8X1	For D.20	23,00
A-ASL . HY .09	5,0	20	0,002	M16X1	For D.32	23,00
A-ASL . HY .10	2,5	19	0,002	M8X1	For D.32	23,00

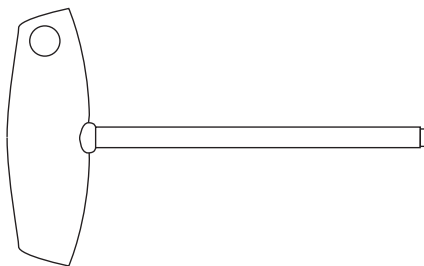
also for HYF chuck | anche per mandrini HYF



Adjusting screw for hydraulic chuck type KT.HY | Vite di regolazione per mandrino idraulico tipo KT.HY

art.	for		type	d*		€
A-AS . HY .06	HY		KT	6		63,00
A-AS . HY .08	HY		KT	8		63,00
A-AS . HY .10	HY		KT	10		63,00
A-AS . HY .12/14	HY		KT	12/14		63,00
A-AS . HY .16/18	HY		KT	16/18		63,00
A-AS . HY .20/25/32	HY		KT	20/25/32		63,00

* d= tool shank | gambo degli utensili



Wrench for pressure initiation | Chiave di serraggio per mandrino idraulico

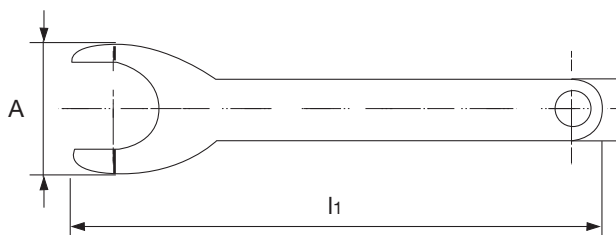
art.	SW	l	kg											€
A-WPI . 040	4	100	0,03											16,00
A-WPI . 050	5	100	0,06											18,00
A-WPI . 060	6	100	0,06											19,00

also for UDC chuck | anche per mandrino UDC

Wrench for adjustment screw | Chiave per vite di regolazione

art.	SW	l	kg											€
A-WAAS . 020	2,0	200	0,02											15,00
A-WAAS . 025	2,5	150	0,02											14,00
A-WAAS . 030	3,0	150	0,02											15,00
A-WAAS . 050	5,0	150	0,06											15,00
A-WAAS . 080	8,0	150	0,10											19,00

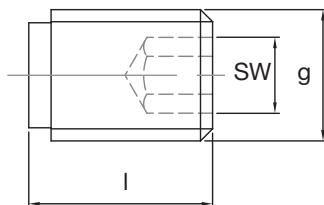
also for HYF chuck | anche per mandrini HYF



Extractor for reduction bushes | Estrattore per bussole di riduzione

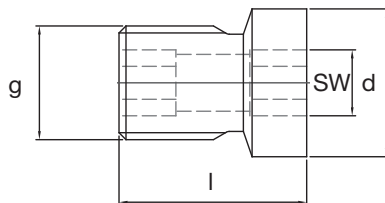
art.	For	A	l1											€
A-E . 100	d 12	24,6	100											88,00
A-E . 160	d 20	38	160											90,00
A-E . 180	d 25	51	180											102,00
A-E . 200	d 32	63	200											110,00

also for HYF chuck | anche per mandrini HYF



Screw for pressure initiation | Vite di pressione per mandrino idraulico

art.	SW	l	kg	g	Allocation						€
A-PS . 11 . HYF	5	11	0,007	M 10	HYF						56,00
A-PS . 14 . HYF	5	14	0,009	M 10	Any other						56,00



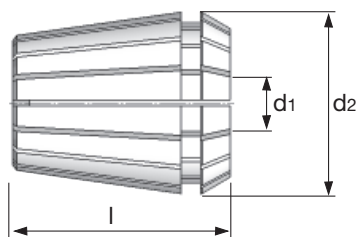
Adjustment screw | Vite di regolazione

For HSK/SK

art.	SW	d	l	kg	g	For diameter	For chuck	€
A-AS . HYF . 01	2,5	5,5	15,0	0,001	M5	6	HSK-A / SK	19,00
A-AS . HYF . 02	3,0	7,0	15,0	0,002	M6	8	HSK-A / SK	19,00
A-AS . HYF . 03	3,0	9,0	15,5	0,005	M8X1	10	HSK-A / SK	19,00
A-AS . HYF . 04	5,0	9,8	15,5	0,006	M10X1	12	HSK-A / SK	19,00
A-AS . HYF . 05	5,0	13,0	16,5	0,008	M10X1	14/20 (HSK)	HSK-A/SK/BT(HYF)	19,00
A-AS . HYF . 06	5,0	15,0	18,0	0,015	M12X1	16	HSK-A / SK	20,00
A-AS . HYF . 07	5,0	17,0	20,0	0,020	M12X1	18	HSK-A / SK	21,00
A-AS . HYF . 08	5,0	15,8	18,5	0,030	M16X1	20	HSK-A / SK	21,00
A-AS . HYF . 09	5,0	19,8	22,0	0,050	M16X1	25	HSK-A / SK	34,00
A-AS . HYF . 10	5,0	25,8	25,0	0,070	M16X1	32	HSK-A / SK	42,00

For BT

art.	SW	l	kg	g	For diameter	For chuck	€
A-AS . HYF . 11	2,5	12,5	0,001	M5	6	BT	20,00
A-AS . HYF . 12	3,0	12,5	0,002	M6	8	BT	20,00
A-AS . HYF . 13	3,0	13,5	0,004	M8X1	10	BT	20,00
A-AS . HYF . 14	5,0	13,5	0,006	M10X1	12	BT	20,00
A-AS . HYF . 15	5,0	13,5	0,006	M10X1	14	BT	20,00
A-AS . HYF . 16	5,0	13,5	0,011	M12X1	16	BT	20,00
A-AS . HYF . 17	5,0	13,5	0,011	M12X1	18	BT	20,00
A-AS . HYF . 18	8,0	13,5	0,021	M16X1	20	BT / ISO	23,00
A-AS . HYF . 19	8,0	13,5	0,021	M16X1	25	BT	23,00
A-AS . HYF . 20	8,0	13,5	0,021	M16X1	32	BT	23,00



PRECISION 0,010

art.	d1	d2	l	€
A . ER8 . 01	1	8,5	13,5	21,00
A . ER11 . 01	1	11,5	18	21,00
A . ER8 . 02	2	8,5	13,5	21,00
A . ER11 . 02	2	11,5	18	21,00
A . ER8 . 03	3	8,5	13,5	17,00
A . ER11 . 03	3	11,5	18	17,00
A . ER8 . 04	4	8,5	13,5	17,00
A . ER11 . 04	4	11,5	18	17,00
A . ER8 . 05	5	8,5	13,5	17,00
A . ER11 . 05	5	11,5	18	17,00
A . ER11 . 06	6	11,5	18	17,00
A . ER11 . 07	7	11,5	18	17,00

PRECISION 0,007

art.	d1	d2	l	€
A . ER8-HP . 01	1	8,5	13,5	41,00
A . ER11-HP . 01	1	11,5	18	41,00
A . ER8-HP . 02	2	8,5	13,5	41,00
A . ER11-HP . 02	2	11,5	18	41,00
A . ER8-HP . 03	3	8,5	13,5	34,00
A . ER11-HP . 03	3	11,5	18	34,00
A . ER8-HP . 04	4	8,5	13,5	34,00
A . ER11-HP . 04	4	11,5	18	34,00
A . ER8-HP . 05	5	8,5	13,5	34,00
A . ER11-HP . 05	5	11,5	18	34,00
A . ER11-HP . 06	6	11,5	18	34,00
A . ER11-HP . 07	7	11,5	18	34,00

Waterlight Tenuta stagna

PRECISION 0,010

art.	d1	d2	l	€
A . ER11-TS . 01	1	11,5	18	36,00
A . ER11-TS . 02	2	11,5	18	36,00
A . ER11-TS . 03	3	11,5	18	36,00
A . ER11-TS . 04	4	11,5	18	36,00
A . ER11-TS . 05	5	11,5	18	36,00
A . ER11-TS . 06	6	11,5	18	36,00
A . ER11-TS . 07	7	11,5	18	36,00

Waterlight Tenuta stagna

PRECISION 0,005

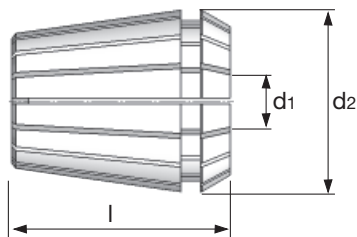
art.	d1	d2	l	€
A . ER11-TSHP . 01	1	11,5	18	63,00
A . ER11-TSHP . 02	2	11,5	18	63,00
A . ER11-TSHP . 03	3	11,5	18	63,00
A . ER11-TSHP . 04	4	11,5	18	63,00
A . ER11-TSHP . 05	5	11,5	18	63,00
A . ER11-TSHP . 06	6	11,5	18	63,00
A . ER11-TSHP . 07	7	11,5	18	63,00

with square for tapping con quadro per maschiatura

art.	d1	d2	l	€
A . ER11-M . 035	3,5	11,5	18	49,00
A . ER11-M . 040	4	11,5	18	49,00
A . ER11-M . 045	4,5	11,5	18	49,00
A . ER11-M . 050	5	11,5	18	49,00
A . ER11-M . 055	5,5	11,5	18	49,00
A . ER11-M . 060	6	11,5	18	49,00

with square cor tapping/waterlight per maschiatura con quadro/tenuta stagna

art.	d1	d2	l	€
A . ER11-M . 035	3,5	11,5	18	49,00
A . ER11-M . 040	4	11,5	18	49,00
A . ER11-M . 045	4,5	11,5	18	49,00
A . ER11-M . 050	5	11,5	18	49,00
A . ER11-M . 055	5,5	11,5	18	49,00
A . ER11-M . 060	6	11,5	18	49,00



PRECISION 0,010

art.	d1	d2	l	€
A . ER16 . 01	1	17	27,5	21,00
A . ER16 . 02	2	17	27,5	21,00
A . ER16 . 03	3	17	27,5	15,00
A . ER16 . 04	4	17	27,5	15,00
A . ER16 . 05	5	17	27,5	15,00
A . ER16 . 06	6	17	27,5	15,00
A . ER16 . 07	7	17	27,5	15,00
A . ER16 . 08	8	17	27,5	15,00
A . ER16 . 09	9	17	27,5	15,00
A . ER16 . 10	10	17	27,5	15,00

PRECISION 0,007

art.	d1	d2	l	€
A . ER16-HP . 01	1	17	27,5	44,00
A . ER16-HP . 02	2	17	27,5	44,00
A . ER16-HP . 03	3	17	27,5	36,00
A . ER16-HP . 04	4	17	27,5	36,00
A . ER16-HP . 05	5	17	27,5	36,00
A . ER16-HP . 06	6	17	27,5	36,00
A . ER16-HP . 07	7	17	27,5	36,00
A . ER16-HP . 08	8	17	27,5	36,00
A . ER16-HP . 09	9	17	27,5	36,00
A . ER16-HP . 10	10	17	27,5	36,00

Waterlight
Tenuta stagna

PRECISION 0,005

art.	d1	d2	l	€
A . ER16-TSHP . 01	1	17	27,5	63,00
A . ER16-TSHP . 02	2	17	27,5	63,00
A . ER16-TSHP . 03	3	17	27,5	63,00
A . ER16-TSHP . 04	4	17	27,5	63,00
A . ER16-TSHP . 05	5	17	27,5	63,00
A . ER16-TSHP . 06	6	17	27,5	63,00
A . ER16-TSHP . 07	7	17	27,5	63,00
A . ER16-TSHP . 08	8	17	27,5	63,00
A . ER16-TSHP . 09	9	17	27,5	63,00
A . ER16-TSHP . 10	10	17	27,5	63,00

with frontal coolant holes
con fori refrigerante frontali

PRECISION 0,010

art.	d1	d2	l	€
A . ER16-CF . 03	3	17	27,5	50,00
A . ER16-CF . 04	4	17	27,5	50,00
A . ER16-CF . 05	5	17	27,5	50,00
A . ER16-CF . 06	6	17	27,5	50,00
A . ER16-CF . 07	7	17	27,5	50,00

Waterlight
Tenuta stagna

PRECISION 0,010

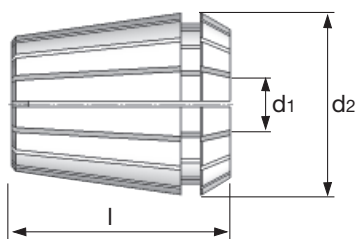
art.	d1	d2	l	€
A . ER16-TS . 01	1	17	27,5	38,00
A . ER16-TS . 02	2	17	27,5	38,00
A . ER16-TS . 03	3	17	27,5	38,00
A . ER16-TS . 04	4	17	27,5	38,00
A . ER16-TS . 05	5	17	27,5	38,00
A . ER16-TS . 06	6	17	27,5	38,00
A . ER16-TS . 07	7	17	27,5	38,00
A . ER16-TS . 08	8	17	27,5	38,00
A . ER16-TS . 09	9	17	27,5	38,00
A . ER16-TS . 10	10	17	27,5	38,00

with square for tapping
con quadro per maschiatura

art.	d1	d2	l	€
A . ER16-M . 035	3,5	17	27,5	49,00
A . ER16-M . 040	4	17	27,5	49,00
A . ER16-M . 045	4,5	17	27,5	49,00
A . ER16-M . 050	5	17	27,5	49,00
A . ER16-M . 055	5,5	17	27,5	49,00
A . ER16-M . 060	6	17	27,5	49,00
A . ER16-M . 065	6,5	17	27,5	49,00
A . ER16-M . 070	7	17	27,5	49,00
A . ER16-M . 075	7,5	17	27,5	49,00
A . ER16-M . 080	8	17	27,5	49,00

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

art.	d1	d2	l	€
A . ER16-MTS . 035	3,5	17	27,5	62,00
A . ER16-MTS . 040	4	17	27,5	62,00
A . ER16-MTS . 045	4,5	17	27,5	62,00
A . ER16-MTS . 050	5	17	27,5	62,00
A . ER16-MTS . 055	5,5	17	27,5	62,00
A . ER16-MTS . 060	6	17	27,5	62,00
A . ER16-MTS . 065	6,5	17	27,5	62,00
A . ER16-MTS . 070	7	17	27,5	62,00
A . ER16-MTS . 075	7,5	17	27,5	62,00
A . ER16-MTS . 080	8	17	27,5	62,00



PRECISION 0,010

art.	d1	d2	l	€
A . ER20 . 01	1	21	31,5	22,00
A . ER20 . 02	2	21	31,5	22,00
A . ER20 . 03	3	21	31,5	16,00
A . ER20 . 04	4	21	31,5	16,00
A . ER20 . 05	5	21	31,5	16,00
A . ER20 . 06	6	21	31,5	16,00
A . ER20 . 07	7	21	31,5	16,00
A . ER20 . 08	8	21	31,5	16,00
A . ER20 . 09	9	21	31,5	16,00
A . ER20 . 10	10	21	31,5	16,00
A . ER20 . 11	11	21	31,5	16,00
A . ER20 . 12	12	21	31,5	16,00
A . ER20 . 13	13	21	31,5	16,00

PRECISION 0,007

art.	d1	d2	l	€
A . ER20-HP . 01	1	21	31,5	45,00
A . ER20-HP . 02	2	21	31,5	45,00
A . ER20-HP . 03	3	21	31,5	38,00
A . ER20-HP . 04	4	21	31,5	38,00
A . ER20-HP . 05	5	21	31,5	38,00
A . ER20-HP . 06	6	21	31,5	38,00
A . ER20-HP . 07	7	21	31,5	38,00
A . ER20-HP . 08	8	21	31,5	38,00
A . ER20-HP . 09	9	21	31,5	38,00
A . ER20-HP . 10	10	21	31,5	38,00
A . ER20-HP . 11	11	21	31,5	38,00
A . ER20-HP . 12	12	21	31,5	38,00
A . ER20-HP . 13	13	21	31,5	38,00

Waterlight Tenuta stagna

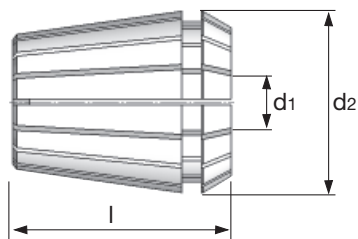
PRECISION 0,010

art.	d1	d2	l	€
A . ER20-TS . 01	1	21	31,5	39,00
A . ER20-TS . 02	2	21	31,5	39,00
A . ER20-TS . 03	3	21	31,5	39,00
A . ER20-TS . 04	4	21	31,5	39,00
A . ER20-TS . 05	5	21	31,5	39,00
A . ER20-TS . 06	6	21	31,5	39,00
A . ER20-TS . 07	7	21	31,5	39,00
A . ER20-TS . 08	8	21	31,5	39,00
A . ER20-TS . 09	9	21	31,5	39,00
A . ER20-TS . 10	10	21	31,5	39,00
A . ER20-TS . 11	11	21	31,5	39,00
A . ER20-TS . 12	12	21	31,5	39,00
A . ER20-TS . 13	13	21	31,5	39,00

Waterlight Tenuta stagna

PRECISION 0,005

art.	d1	d2	l	€
A . ER20-TSHP . 02	2	21	31,5	64,00
A . ER20-TSHP . 03	3	21	31,5	64,00
A . ER20-TSHP . 04	4	21	31,5	64,00
A . ER20-TSHP . 05	5	21	31,5	64,00
A . ER20-TSHP . 06	6	21	31,5	64,00
A . ER20-TSHP . 07	7	21	31,5	64,00
A . ER20-TSHP . 08	8	21	31,5	64,00
A . ER20-TSHP . 09	9	21	31,5	64,00
A . ER20-TSHP . 10	10	21	31,5	64,00
A . ER20-TSHP . 11	11	21	31,5	64,00
A . ER20-TSHP . 12	12	21	31,5	64,00
A . ER20-TSHP . 13	13	21	31,5	64,00



with frontal coolant holes
con fori refrigerante frontali

PRECISION 0,010

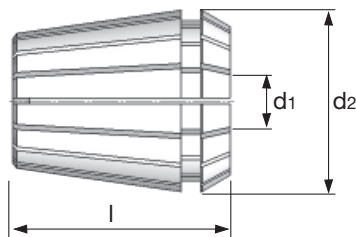
art.	d1	d2	l	€
A . ER20-CF . 03	3	21	31,5	50,00
A . ER20-CF . 04	4	21	31,5	50,00
A . ER20-CF . 05	5	21	31,5	50,00
A . ER20-CF . 06	6	21	31,5	50,00
A . ER20-CF . 07	7	21	31,5	50,00
A . ER20-CF . 08	8	21	31,5	50,00
A . ER20-CF . 09	9	21	31,5	50,00

with square for tapping
con quadro per maschiatura

art.	d1	d2	l	€
A . ER20-M . 035	3,5	21	31,5	50,00
A . ER20-M . 040	4	21	31,5	50,00
A . ER20-M . 045	4,5	21	31,5	50,00
A . ER20-M . 050	5	21	31,5	50,00
A . ER20-M . 055	5,5	21	31,5	50,00
A . ER20-M . 060	6	21	31,5	50,00
A . ER20-M . 065	6,5	21	31,5	50,00
A . ER20-M . 070	7	21	31,5	50,00
A . ER20-M . 075	7,5	21	31,5	50,00
A . ER20-M . 080	8	21	31,5	50,00
A . ER20-M . 085	8,5	21	31,5	50,00
A . ER20-M . 090	9	21	31,5	50,00
A . ER20-M . 095	9,5	21	31,5	50,00
A . ER20-M . 100	10	21	31,5	50,00

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

art.	d1	d2	l	€
A . ER20-MTS . 035	3,5	21	31,5	64,00
A . ER20-MTS . 040	4	21	31,5	64,00
A . ER20-MTS . 045	4,5	21	31,5	64,00
A . ER20-MTS . 050	5	21	31,5	64,00
A . ER20-MTS . 055	5,5	21	31,5	64,00
A . ER20-MTS . 060	6	21	31,5	64,00
A . ER20-MTS . 065	6,5	21	31,5	64,00
A . ER20-MTS . 070	7	21	31,5	64,00
A . ER20-MTS . 075	7,5	21	31,5	64,00
A . ER20-MTS . 080	8	21	31,5	64,00
A . ER20-MTS . 085	8,5	21	31,5	64,00
A . ER20-MTS . 090	9	21	31,5	64,00
A . ER20-MTS . 095	9,5	21	31,5	64,00
A . ER20-MTS . 100	10	21	31,5	64,00



PRECISION 0,010

art.	d1	d2	l	€
A . ER25 . 01	1	26	34	22,00
A . ER25 . 02	2	26	34	22,00
A . ER25 . 03	3	26	34	15,00
A . ER25 . 04	4	26	34	15,00
A . ER25 . 05	5	26	34	15,00
A . ER25 . 06	6	26	34	15,00
A . ER25 . 07	7	26	34	15,00
A . ER25 . 08	8	26	34	15,00
A . ER25 . 09	9	26	34	15,00
A . ER25 . 10	10	26	34	15,00
A . ER25 . 11	11	26	34	15,00
A . ER25 . 12	12	26	34	15,00
A . ER25 . 13	13	26	34	15,00
A . ER25 . 14	14	26	34	15,00
A . ER25 . 15	15	26	34	15,00
A . ER25 . 16	16	26	34	15,00

PRECISION 0,007

art.	d1	d2	l	€
A . ER25-HP . 01	1	26	34	48,00
A . ER25-HP . 02	2	26	34	48,00
A . ER25-HP . 03	3	26	34	40,00
A . ER25-HP . 04	4	26	34	40,00
A . ER25-HP . 05	5	26	34	40,00
A . ER25-HP . 06	6	26	34	40,00
A . ER25-HP . 07	7	26	34	40,00
A . ER25-HP . 08	8	26	34	40,00
A . ER25-HP . 09	9	26	34	40,00
A . ER25-HP . 10	10	26	34	40,00
A . ER25-HP . 11	11	26	34	40,00
A . ER25-HP . 12	12	26	34	40,00
A . ER25-HP . 13	13	26	34	40,00
A . ER25-HP . 14	14	26	34	40,00
A . ER25-HP . 15	15	26	34	40,00
A . ER25-HP . 16	16	26	34	40,00

Waterlight
Tenuta stagna

PRECISION 0,010

art.	d1	d2	l	€
A . ER25-TS . 01	1	26	34	42,00
A . ER25-TS . 02	2	26	34	42,00
A . ER25-TS . 03	3	26	34	42,00
A . ER25-TS . 04	4	26	34	42,00
A . ER25-TS . 05	5	26	34	42,00
A . ER25-TS . 06	6	26	34	42,00
A . ER25-TS . 07	7	26	34	42,00
A . ER25-TS . 08	8	26	34	42,00
A . ER25-TS . 09	9	26	34	42,00
A . ER25-TS . 10	10	26	34	42,00
A . ER25-TS . 11	11	26	34	42,00
A . ER25-TS . 12	12	26	34	42,00
A . ER25-TS . 13	13	26	34	42,00
A . ER25-TS . 14	14	26	34	42,00
A . ER25-TS . 15	15	26	34	42,00
A . ER25-TS . 16	16	26	34	42,00

Waterlight
Tenuta stagna

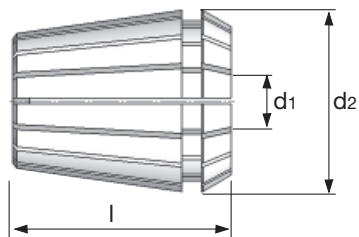
PRECISION 0,005

art.	d1	d2	l	€
A . ER25-TSHP . 02	2	26	34	67,00
A . ER25-TSHP . 03	3	26	34	67,00
A . ER25-TSHP . 04	4	26	34	67,00
A . ER25-TSHP . 05	5	26	34	67,00
A . ER25-TSHP . 06	6	26	34	67,00
A . ER25-TSHP . 07	7	26	34	67,00
A . ER25-TSHP . 08	8	26	34	67,00
A . ER25-TSHP . 09	9	26	34	67,00
A . ER25-TSHP . 10	10	26	34	67,00
A . ER25-TSHP . 11	11	26	34	67,00
A . ER25-TSHP . 12	12	26	34	67,00
A . ER25-TSHP . 13	13	26	34	67,00
A . ER25-TSHP . 14	14	26	34	67,00
A . ER25-TSHP . 15	15	26	34	67,00
A . ER25-TSHP . 16	16	26	34	67,00

Set of waterlight ER collets
Serie di pinze ER a tenuta stagna

PRECISION 0,010

art.	diameters diametri	collets number numero pinze	€
A . KIT-ER25-TS . 06	4 - 6 - 8 - 10 - 12 - 16	6	256,00



with square for tapping
con quadro per maschiatura

art.	d1	d2	l	€
A . ER25-M . 035	3,5	26	34	51,00
A . ER25-M . 040	4	26	34	51,00
A . ER25-M . 045	4,5	26	34	51,00
A . ER25-M . 050	5	26	34	51,00
A . ER25-M . 055	5,5	26	34	51,00
A . ER25-M . 060	6	26	34	51,00
A . ER25-M . 065	6,5	26	34	51,00
A . ER25-M . 070	7	26	34	51,00
A . ER25-M . 075	7,5	26	34	51,00
A . ER25-M . 080	8	26	34	51,00
A . ER25-M . 085	8,5	26	34	51,00
A . ER25-M . 090	9	26	34	51,00
A . ER25-M . 095	9,5	26	34	51,00
A . ER25-M . 100	10	26	34	51,00
A . ER25-M . 105	10,5	26	34	51,00
A . ER25-M . 110	11	26	34	51,00
A . ER25-M . 115	11,5	26	34	51,00
A . ER25-M . 120	12	26	34	51,00

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

art.	d1	d2	l	€
A . ER25-MTS . 035	3,5	26	34	66,00
A . ER25-MTS . 040	4	26	34	66,00
A . ER25-MTS . 045	4,5	26	34	66,00
A . ER25-MTS . 050	5	26	34	66,00
A . ER25-MTS . 055	5,5	26	34	66,00
A . ER25-MTS . 060	6	26	34	66,00
A . ER25-MTS . 065	6,5	26	34	66,00
A . ER25-MTS . 070	7	26	34	66,00
A . ER25-MTS . 075	7,5	26	34	66,00
A . ER25-MTS . 080	8	26	34	66,00
A . ER25-MTS . 085	8,5	26	34	66,00
A . ER25-MTS . 090	9	26	34	66,00
A . ER25-MTS . 095	9,5	26	34	66,00
A . ER25-MTS . 100	10	26	34	66,00
A . ER25-MTS . 105	10,5	26	34	66,00
A . ER25-MTS . 110	11	26	34	66,00
A . ER25-MTS . 115	11,5	26	34	66,00
A . ER25-MTS . 120	12	26	34	66,00

with frontal coolant holes
con fori refrigerante frontali

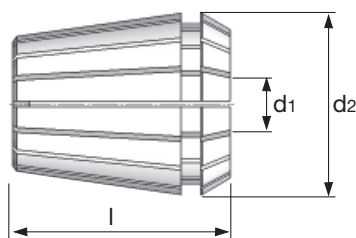
PRECISION 0,010

art.	d1	d2	l	€
A . ER25-CF . 03	3	26	34	53,00
A . ER25-CF . 04	4	26	34	53,00
A . ER25-CF . 05	5	26	34	53,00
A . ER25-CF . 06	6	26	34	53,00
A . ER25-CF . 07	7	26	34	53,00
A . ER25-CF . 08	8	26	34	53,00
A . ER25-CF . 09	9	26	34	53,00
A . ER25-CF . 10	10	26	34	53,00
A . ER25-CF . 11	11	26	34	53,00
A . ER25-CF . 12	12	26	34	53,00
A . ER25-CF . 13	13	26	34	53,00
A . ER25-CF . 14	14	26	34	53,00

Set of high precision waterlight ER collets
Serie di pinze ER ultraprecise a tenuta stagna

PRECISION 0,010

art.	diameters diametri	collets number numero pinze	€
A . KIT-ER25-TSHP . 06	4 - 6 - 8 - 10 - 12 - 16	6	409,00



PRECISION 0,010

art.	d1	d2	l	€
A . ER32 . 01	1	33	40	21,00
A . ER32 . 02	2	33	40	21,00
A . ER32 . 03	3	33	40	10,50
A . ER32 . 04	4	33	40	10,50
A . ER32 . 05	5	33	40	10,50
A . ER32 . 06	6	33	40	10,50
A . ER32 . 07	7	33	40	10,50
A . ER32 . 08	8	33	40	10,50
A . ER32 . 09	9	33	40	10,50
A . ER32 . 10	10	33	40	10,50
A . ER32 . 11	11	33	40	10,50
A . ER32 . 12	12	33	40	10,50
A . ER32 . 13	13	33	40	10,50
A . ER32 . 14	14	33	40	10,50
A . ER32 . 15	15	33	40	10,50
A . ER32 . 16	16	33	40	10,50
A . ER32 . 17	17	33	40	10,50
A . ER32 . 18	18	33	40	10,50
A . ER32 . 19	19	33	40	10,50
A . ER32 . 20	20	33	40	10,50

PRECISION 0,007

art.	d1	d2	l	€
A . ER32-HP . 02	2	33	40	48,00
A . ER32-HP . 03	3	33	40	40,00
A . ER32-HP . 04	4	33	40	40,00
A . ER32-HP . 05	5	33	40	40,00
A . ER32-HP . 06	6	33	40	40,00
A . ER32-HP . 07	7	33	40	40,00
A . ER32-HP . 08	8	33	40	40,00
A . ER32-HP . 09	9	33	40	40,00
A . ER32-HP . 10	10	33	40	40,00
A . ER32-HP . 11	11	33	40	40,00
A . ER32-HP . 12	12	33	40	40,00
A . ER32-HP . 13	13	33	40	40,00
A . ER32-HP . 14	14	33	40	40,00
A . ER32-HP . 15	15	33	40	40,00
A . ER32-HP . 16	16	33	40	40,00
A . ER32-HP . 17	17	33	40	40,00
A . ER32-HP . 18	18	33	40	40,00
A . ER32-HP . 19	19	33	40	40,00
A . ER32-HP . 20	20	33	40	40,00

Waterlight
Tenuta stagna

PRECISION 0,010

art.	d1	d2	l	€
A . ER32-TS . 02	2	33	40	42,00
A . ER32-TS . 03	3	33	40	42,00
A . ER32-TS . 04	4	33	40	42,00
A . ER32-TS . 05	5	33	40	42,00
A . ER32-TS . 06	6	33	40	42,00
A . ER32-TS . 07	7	33	40	42,00
A . ER32-TS . 08	8	33	40	42,00
A . ER32-TS . 09	9	33	40	42,00
A . ER32-TS . 10	10	33	40	42,00
A . ER32-TS . 11	11	33	40	42,00
A . ER32-TS . 12	12	33	40	42,00
A . ER32-TS . 13	13	33	40	42,00
A . ER32-TS . 14	14	33	40	42,00
A . ER32-TS . 15	15	33	40	42,00
A . ER32-TS . 16	16	33	40	42,00
A . ER32-TS . 17	17	33	40	42,00
A . ER32-TS . 18	18	33	40	42,00
A . ER32-TS . 19	19	33	40	42,00
A . ER32-TS . 20	20	33	40	42,00

Waterlight
Tenuta stagna

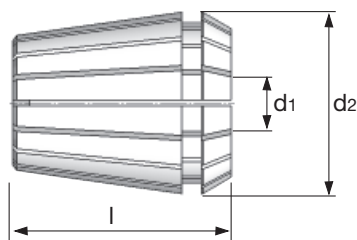
PRECISION 0,005

art.	d1	d2	l	€
A . ER32-TSHP . 03	3	33	40	67,00
A . ER32-TSHP . 04	4	33	40	67,00
A . ER32-TSHP . 05	5	33	40	67,00
A . ER32-TSHP . 06	6	33	40	67,00
A . ER32-TSHP . 07	7	33	40	67,00
A . ER32-TSHP . 08	8	33	40	67,00
A . ER32-TSHP . 09	9	33	40	67,00
A . ER32-TSHP . 10	10	33	40	67,00
A . ER32-TSHP . 11	11	33	40	67,00
A . ER32-TSHP . 12	12	33	40	67,00
A . ER32-TSHP . 13	13	33	40	67,00
A . ER32-TSHP . 14	14	33	40	67,00
A . ER32-TSHP . 15	15	33	40	67,00
A . ER32-TSHP . 16	16	33	40	67,00
A . ER32-TSHP . 17	17	33	40	67,00
A . ER32-TSHP . 18	18	33	40	67,00
A . ER32-TSHP . 19	19	33	40	67,00
A . ER32-TSHP . 20	20	33	40	67,00

Set of waterlight ER collets
Serie di pinze ER a tenuta stagna

PRECISION 0,010

art.	diameters diametri	collets number numero pinze	€
A . KIT-ER32-TS . 07	4 - 6 - 8 - 10 - 12 - 16 - 20	7	298,00



with square for tapping
con quadro per maschiatura

art.	d1	d2	l	€
A . ER32-M . 035	3,5	33	40	53,00
A . ER32-M . 040	4	33	40	53,00
A . ER32-M . 045	4,5	33	40	53,00
A . ER32-M . 050	5	33	40	53,00
A . ER32-M . 055	5,5	33	40	53,00
A . ER32-M . 060	6	33	40	53,00
A . ER32-M . 065	6,5	33	40	53,00
A . ER32-M . 070	7	33	40	53,00
A . ER32-M . 075	7,5	33	40	53,00
A . ER32-M . 080	8	33	40	53,00
A . ER32-M . 085	8,5	33	40	53,00
A . ER32-M . 090	9	33	40	53,00
A . ER32-M . 095	9,5	33	40	53,00
A . ER32-M . 100	10	33	40	53,00
A . ER32-M . 105	10,5	33	40	53,00
A . ER32-M . 110	11	33	40	53,00
A . ER32-M . 115	11,5	33	40	53,00
A . ER32-M . 120	12	33	40	53,00
A . ER32-M . 125	12,5	33	40	53,00
A . ER32-M . 130	13	33	40	53,00
A . ER32-M . 135	13,5	33	40	53,00
A . ER32-M . 140	14	33	40	53,00
A . ER32-M . 145	14,5	33	40	53,00
A . ER32-M . 150	15	33	40	53,00
A . ER32-M . 155	15,5	33	40	53,00
A . ER32-M . 160	16	33	40	53,00

with square cor tapping/waterlight
per maschiatura con quadro/tenuta stagna

art.	d1	d2	l	€
A . ER32-MTS . 035	3,5	33	40	67,00
A . ER32-MTS . 040	4	33	40	67,00
A . ER32-MTS . 045	4,5	33	40	67,00
A . ER32-MTS . 050	5	33	40	67,00
A . ER32-MTS . 055	5,5	33	40	67,00
A . ER32-MTS . 060	6	33	40	67,00
A . ER32-MTS . 065	6,5	33	40	67,00
A . ER32-MTS . 070	7	33	40	67,00
A . ER32-MTS . 075	7,5	33	40	67,00
A . ER32-MTS . 080	8	33	40	67,00
A . ER32-MTS . 085	8,5	33	40	67,00
A . ER32-MTS . 090	9	33	40	67,00
A . ER32-MTS . 095	9,5	33	40	67,00
A . ER32-MTS . 100	10	33	40	67,00
A . ER32-MTS . 105	10,5	33	40	67,00
A . ER32-MTS . 110	11	33	40	67,00
A . ER32-MTS . 115	11,5	33	40	67,00
A . ER32-MTS . 120	12	33	40	67,00
A . ER32-MTS . 125	12,5	33	40	67,00
A . ER32-MTS . 130	13	33	40	67,00
A . ER32-MTS . 135	13,5	33	40	67,00
A . ER32-MTS . 140	14	33	40	67,00
A . ER32-MTS . 145	14,5	33	40	67,00
A . ER32-MTS . 150	15	33	40	67,00
A . ER32-MTS . 155	15,5	33	40	67,00
A . ER32-MTS . 160	16	33	40	67,00

with frontal coolant holes
con fori refrigerante frontali

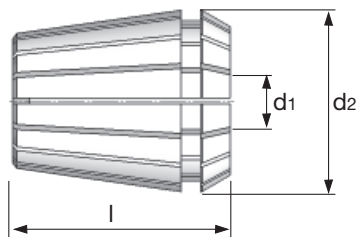
PRECISION 0,010

art.	d1	d2	l	€
A . ER32-CF . 03	3	33	40	53,00
A . ER32-CF . 04	4	33	40	53,00
A . ER32-CF . 05	5	33	40	53,00
A . ER32-CF . 06	6	33	40	53,00
A . ER32-CF . 07	7	33	40	53,00
A . ER32-CF . 08	8	33	40	53,00
A . ER32-CF . 09	9	33	40	53,00
A . ER32-CF . 10	10	33	40	53,00
A . ER32-CF . 11	11	33	40	53,00
A . ER32-CF . 12	12	33	40	53,00
A . ER32-CF . 13	13	33	40	53,00
A . ER32-CF . 14	14	33	40	53,00
A . ER32-CF . 15	15	33	40	53,00
A . ER32-CF . 16	16	33	40	53,00
A . ER32-CF . 17	17	33	40	53,00
A . ER32-CF . 18	18	33	40	53,00
A . ER32-CF . 19	19	33	40	53,00
A . ER32-CF . 20	20	33	40	53,00

Set of high precision waterlight ER collets
Serie di pinze ER ultraprecise a tenuta stagna

PRECISION 0,010

art.	diameters diametri	collets number numero pinze	€
A . KIT-ER32-TSHP . 07	4 - 6 - 8 - 10 - 12 - 16 - 20	7	476,00

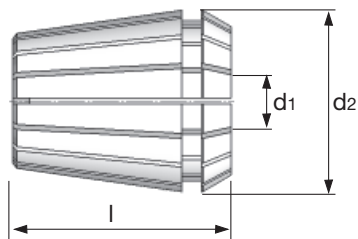


PRECISION 0,010

art.	d1	d2	l	€
A . ER40 . 03	3	41	46	19,00
A . ER40 . 04	4	41	46	19,00
A . ER40 . 05	5	41	46	19,00
A . ER40 . 06	6	41	46	19,00
A . ER40 . 07	7	41	46	19,00
A . ER40 . 08	8	41	46	19,00
A . ER40 . 09	9	41	46	19,00
A . ER40 . 10	10	41	46	19,00
A . ER40 . 11	11	41	46	19,00
A . ER40 . 12	12	41	46	19,00
A . ER40 . 13	13	41	46	19,00
A . ER40 . 14	14	41	46	19,00
A . ER40 . 15	15	41	46	19,00
A . ER40 . 16	16	41	46	19,00
A . ER40 . 17	17	41	46	19,00
A . ER40 . 18	18	41	46	19,00
A . ER40 . 19	19	41	46	19,00
A . ER40 . 20	20	41	46	19,00
A . ER40 . 21	21	41	46	19,00
A . ER40 . 22	22	41	46	19,00
A . ER40 . 23	23	41	46	19,00
A . ER40 . 24	24	41	46	19,00
A . ER40 . 25	25	41	46	19,00
A . ER40 . 26	26	41	46	19,00
A . ER40 . 27	27	41	46	19,00
A . ER40 . 28	28	41	46	19,00
A . ER40 . 29	29	41	46	19,00
A . ER40 . 30	30	41	46	19,00

PRECISION 0,007

art.	d1	d2	l	€
A . ER40-HP . 03	3	41	46	43,00
A . ER40-HP . 04	4	41	46	43,00
A . ER40-HP . 05	5	41	46	43,00
A . ER40-HP . 06	6	41	46	43,00
A . ER40-HP . 07	7	41	46	43,00
A . ER40-HP . 08	8	41	46	43,00
A . ER40-HP . 09	9	41	46	43,00
A . ER40-HP . 10	10	41	46	43,00
A . ER40-HP . 11	11	41	46	43,00
A . ER40-HP . 12	12	41	46	43,00
A . ER40-HP . 13	13	41	46	43,00
A . ER40-HP . 14	14	41	46	43,00
A . ER40-HP . 15	15	41	46	43,00
A . ER40-HP . 16	16	41	46	43,00
A . ER40-HP . 17	17	41	46	43,00
A . ER40-HP . 18	18	41	46	43,00
A . ER40-HP . 19	19	41	46	43,00
A . ER40-HP . 20	20	41	46	43,00
A . ER40-HP . 21	21	41	46	43,00
A . ER40-HP . 22	22	41	46	43,00
A . ER40-HP . 23	23	41	46	43,00
A . ER40-HP . 24	24	41	46	43,00
A . ER40-HP . 25	25	41	46	43,00
A . ER40-HP . 26	26	41	46	43,00
A . ER40-HP . 27	27	41	46	54,00
A . ER40-HP . 28	28	41	46	54,00
A . ER40-HP . 29	29	41	46	54,00
A . ER40-HP . 30	30	41	46	54,00

Waterlight
Tenuta stagna

PRECISION 0,010

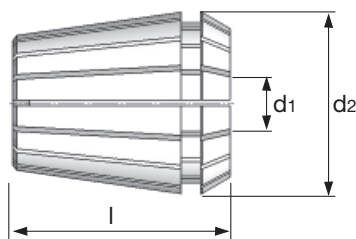
art.	d1	d2	l	€
A . ER40-TS . 03	3	41	46	46,00
A . ER40-TS . 04	4	41	46	46,00
A . ER40-TS . 05	5	41	46	46,00
A . ER40-TS . 06	6	41	46	46,00
A . ER40-TS . 07	7	41	46	46,00
A . ER40-TS . 08	8	41	46	46,00
A . ER40-TS . 09	9	41	46	46,00
A . ER40-TS . 10	10	41	46	46,00
A . ER40-TS . 11	11	41	46	46,00
A . ER40-TS . 12	12	41	46	46,00
A . ER40-TS . 13	13	41	46	46,00
A . ER40-TS . 14	14	41	46	46,00
A . ER40-TS . 15	15	41	46	46,00
A . ER40-TS . 16	16	41	46	46,00
A . ER40-TS . 17	17	41	46	46,00
A . ER40-TS . 18	18	41	46	46,00
A . ER40-TS . 19	19	41	46	46,00
A . ER40-TS . 20	20	41	46	46,00
A . ER40-TS . 21	21	41	46	46,00
A . ER40-TS . 22	22	41	46	46,00
A . ER40-TS . 23	23	41	46	46,00
A . ER40-TS . 24	24	41	46	46,00
A . ER40-TS . 25	25	41	46	46,00
A . ER40-TS . 26	26	41	46	46,00
A . ER40-TS . 27	27	41	46	46,00
A . ER40-TS . 28	28	41	46	46,00
A . ER40-TS . 29	29	41	46	46,00
A . ER40-TS . 30	30	41	46	46,00

Waterlight
Tenuta stagna

PRECISION 0,005

art.	d1	d2	l	€
A . ER40-TSHP . 04	4	41	46	71,00
A . ER40-TSHP . 05	5	41	46	71,00
A . ER40-TSHP . 06	6	41	46	71,00
A . ER40-TSHP . 07	7	41	46	71,00
A . ER40-TSHP . 08	8	41	46	71,00
A . ER40-TSHP . 09	9	41	46	71,00
A . ER40-TSHP . 10	10	41	46	71,00
A . ER40-TSHP . 11	11	41	46	71,00
A . ER40-TSHP . 12	12	41	46	71,00
A . ER40-TSHP . 13	13	41	46	71,00
A . ER40-TSHP . 14	14	41	46	71,00
A . ER40-TSHP . 15	15	41	46	71,00
A . ER40-TSHP . 16	16	41	46	71,00
A . ER40-TSHP . 17	17	41	46	71,00
A . ER40-TSHP . 18	18	41	46	71,00
A . ER40-TSHP . 19	19	41	46	71,00
A . ER40-TSHP . 20	20	41	46	71,00
A . ER40-TSHP . 20	21	41	46	71,00
A . ER40-TSHP . 20	22	41	46	71,00
A . ER40-TSHP . 20	23	41	46	71,00
A . ER40-TSHP . 20	24	41	46	71,00
A . ER40-TSHP . 20	25	41	46	71,00
A . ER40-TSHP . 20	26	41	46	71,00

continues on the next page →



with frontal coolant holes
con fori refrigerante frontali

PRECISION 0,010

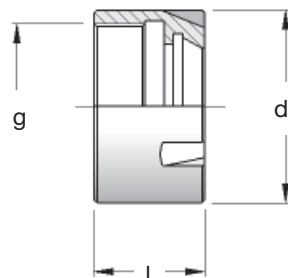
art.	d1	d2	l	€
A . ER40-CF . 04	4	41	46	57,00
A . ER40-CF . 05	5	41	46	57,00
A . ER40-CF . 06	6	41	46	57,00
A . ER40-CF . 07	7	41	46	57,00
A . ER40-CF . 08	8	41	46	57,00
A . ER40-CF . 09	9	41	46	57,00
A . ER40-CF . 10	10	41	46	57,00
A . ER40-CF . 11	11	41	46	57,00
A . ER40-CF . 12	12	41	46	57,00
A . ER40-CF . 13	13	41	46	57,00
A . ER40-CF . 14	14	41	46	57,00
A . ER40-CF . 15	15	41	46	57,00
A . ER40-CF . 16	16	41	46	57,00
A . ER40-CF . 17	17	41	46	57,00
A . ER40-CF . 18	18	41	46	57,00
A . ER40-CF . 19	19	41	46	57,00
A . ER40-CF . 20	20	41	46	57,00
A . ER40-CF . 21	21	41	46	57,00
A . ER40-CF . 22	22	41	46	57,00
A . ER40-CF . 23	23	41	46	57,00
A . ER40-CF . 24	24	41	46	57,00
A . ER40-CF . 25	25	41	46	57,00
A . ER40-CF . 26	26	41	46	57,00

with square for tapping
con quadro per maschiatura

art.	d1	d2	l	€
A . ER40-M . 045	4,5	41	46	56,00
A . ER40-M . 05	5	41	46	56,00
A . ER40-M . 055	5,5	41	46	56,00
A . ER40-M . 06	6	41	46	56,00
A . ER40-M . 065	6,5	41	46	56,00
A . ER40-M . 07	7	41	46	56,00
A . ER40-M . 075	7,5	41	46	56,00
A . ER40-M . 08	8	41	46	56,00
A . ER40-M . 085	8,5	41	46	56,00
A . ER40-M . 09	9	41	46	56,00
A . ER40-M . 095	9,5	41	46	56,00
A . ER40-M . 10	10	41	46	56,00
A . ER40-M . 105	10,5	41	46	56,00
A . ER40-M . 11	11	41	46	56,00
A . ER40-M . 115	11,5	41	46	56,00
A . ER40-M . 12	12	41	46	56,00
A . ER40-M . 125	12,5	41	46	56,00
A . ER40-M . 13	13	41	46	56,00
A . ER40-M . 135	13,5	41	46	56,00
A . ER40-M . 14	14	41	46	56,00
A . ER40-M . 145	14,5	41	46	56,00
A . ER40-M . 15	15	41	46	56,00
A . ER40-M . 155	15,5	41	46	56,00
A . ER40-M . 16	16	41	46	56,00
A . ER40-M . 165	16,5	41	46	56,00
A . ER40-M . 17	17	41	46	56,00
A . ER40-M . 175	17,5	41	46	56,00
A . ER40-M . 18	18	41	46	56,00
A . ER40-M . 185	18,5	41	46	56,00
A . ER40-M . 19	19	41	46	56,00
A . ER40-M . 195	19,5	41	46	56,00
A . ER40-M . 20	20	41	46	56,00

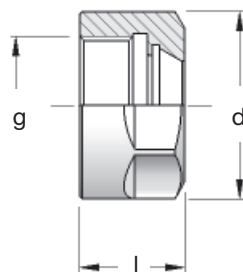
Mini clamping nuts | Ghiere mini

art.	d	l	g			€
A . CN11-MN	16	12	13X0,75			30,00
A . CN16-MN	22	18	19X1,00			30,00
A . CN20-MN	28	19	24X1,00			30,00
A . CN25-MN	35	20	30X1,00			30,00



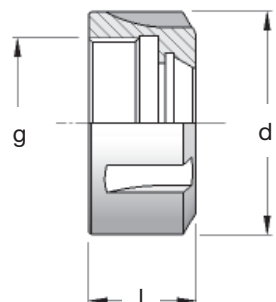
Exagonal clamping nuts | Ghiere esagonali

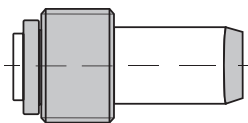
art.	d	l	g			€
A . CN11-HX	16	12	13X0,75			30,00
A . CN16-HX	22	18	19X1,00			30,00
A . CN20-HX	28	19	24X1,00			30,00



Cylindrical clamping nuts | Ghiere cilindriche

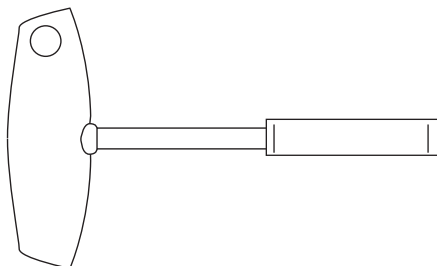
art.	d	l	g			€
A . CN16-CY	16	12	13X0,75			30,00
A . CN20-CY	22	18	19X1,00			30,00
A . CN25-CY	28	19	24X1,00			30,00
A . CN32-CY	35	20	30X1,00			30,00
A . CN40-CY	63	25,5	64X2,00			38,00





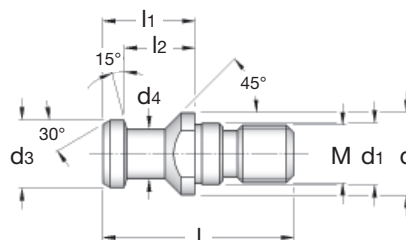
DIN69893-A/E

art.			kg											€
A-CT	. HSK .	32	0,01											41,00
A-CT	. HSK .	40	0,01											33,00
A-CT	. HSK .	50	0,02											35,00
A-CT	. HSK .	63	0,02											35,00
A-CT	. HSK .	80	0,02											37,00
A-CT	. HSK .	100	0,03											39,00



Wrench for coolant tube | Chiave per adduttore refrigerante

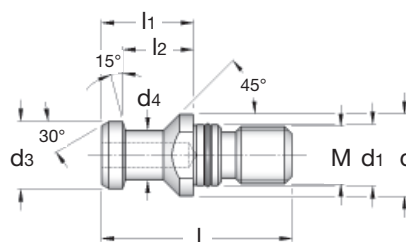
art.		SW	kg											€
A-WCT	. 032	32	0,01											46,00
A-WCT	. 040	40	0,01											48,00
A-WCT	. 050	50	0,01											50,00
A-WCT	. 063	63	0,01											53,00
A-WCT	. 080	80	0,02											59,00
A-WCT	. 100	100	0,02											67,00



DIN69872 - without hole

DIN69872 - senza foro

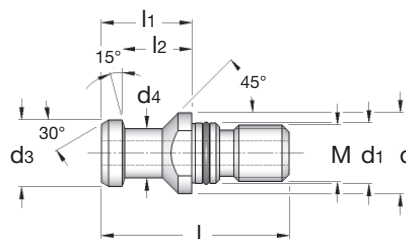
art.	SK	M	d	d1	d3	d4	l	l1	l2				€
A-SK . 030 . PS-FA	30	M12	17	13	13	9	44	24	19				18,00
A-SK . 040 . PS-FA	40	M16	23	17	19	14	54	26	20				15,00
A-SK . 050 . PS-FA	50	M24	36	25	28	21	74	34	25				23,00



DIN69872 - without hole with OR

DIN69872 - senza foro con OR

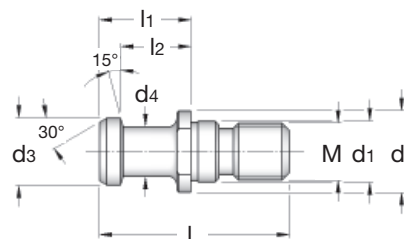
art.	SK	M	d	d1	d3	d4	l	l1	l2				€
A-SK . 040 . PS-FB	40	M16	23	17	19	14	54	26	20				15,00
A-SK . 050 . PS-FB	50	M24	36	25	28	21	74	34	25				23,00



DIN69872 - with hole and OR

DIN69872 - con foro e OR

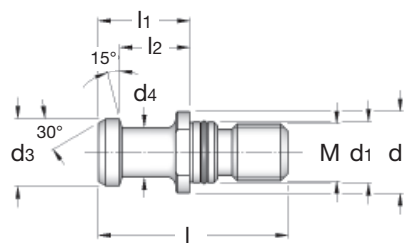
art.	SK	M	d	d1	d3	d4	l	l1	l2	hole			€
A-SK . 040 . PS-FB-WH	40	23	14	19	17	-	54	26	20	7			15,00
A-SK . 050 . PS-FB-WH	50	36	21	28	25	-	74	34	25	11,5			23,00



ISO 7388 2 type A - without hole

ISO 7388 2 tipo A - senza foro

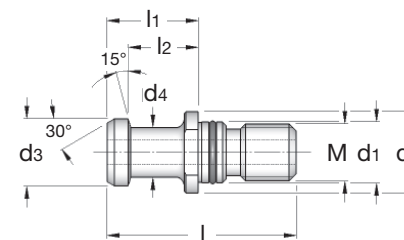
art.	SK	M	d	d1	d3	d4	l	l1	l2				€
A-SK . 030 . PS-TA-FA	30	M12	16	13	12	8	44	24	19				18,00
A-SK . 040 . PS-TA-FA	40	M16	23	17	19	14	54	26	20				15,00
A-SK . 050 . PS-TA-FA	50	M24	36	25	28	21	74	34	25				23,00



ISO 7388 2 type A - without hole with OR

ISO 7388 2 tipo A - senza foro con OR

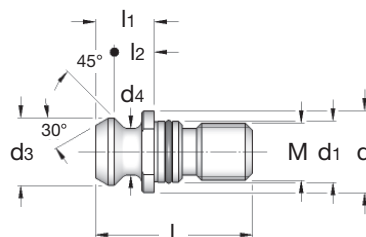
art.	SK	M	d	d1	d3	d4	l	l1	l2				€
A-SK . 040 . PS-TA-FB	40	M16	23	17	19	14	54	26	20				15,00
A-SK . 050 . PS-TA-FB	50	M24	36	25	28	21	74	34	25				23,00



ISO 7388 2 type A - with hole and OR

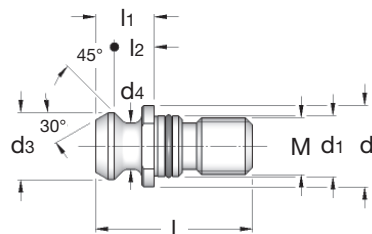
ISO 7388 2 tipo A - con foro e OR

art.	SK	M	d	d1	d3	d4	l	l1	l2	hole			€
A-SK . 040 . PS-TA-FB-WH	40	M16	23	17	19	14	54	26	20	7			15,00
A-SK . 050 . PS-TA-FB-WH	50	M24	36	25	28	21	74	34	25	11,5			23,00



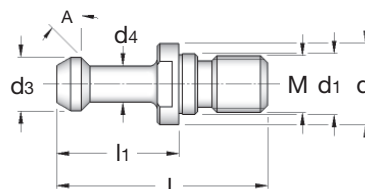
ISO 7388 2 type B - without hole with OR
ISO 7388 2 tipo B - senza foro con OR

art.	SK	M	d	d1	d3	d4	l	l1	l2			€
A-SK . 040 . PS-TB-FB	40	M16	22,5	17	18,9	12,9	44,5	16,4	11,1			15,00
A-SK . 050 . PS-TB-FB	50	M24	37	25	29,1	19,6	65,5	25,5	17,9			23,00



ISO 7388 2 type B - with hole and OR
ISO 7388 2 tipo B - con foro e OR

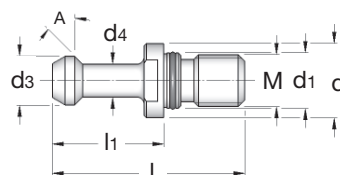
art.	SK	M	d	d1	d3	d4	l	l1	l2	hole		€
A-SK . 040 . PS-TB-FB-WH	40	M16	22,5	17	18,9	12,9	44,5	16,4	11,1	7,3		15,00
A-SK . 050 . PS-TB-FB-WH	50	M24	37	25	29,1	19,6	65,5	25,5	17,9	11,5		23,00



MAS BT - without hole

MAS BT - senza foro

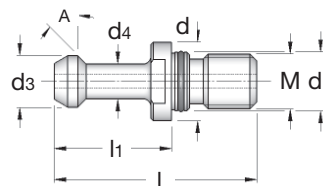
art.	BT	A	M	l	l1	d	d1	d3	d4				€
A-BT . 030 . PS-MS30-FA	BT30	30	M12	43	23	16,5	12,5	11	7				18,00
A-BT . 030 . PS-MS45-FA	BT30	45	M12	43	23	16,5	12,5	11	7				18,00
A-BT . 040 . PS-MS30-FA	BT40	30	M16	60	35	23	17	15	10				17,00
A-BT . 040 . PS-MS45-FA	BT40	45	M16	60	35	23	17	15	10				17,00
A-BT . 040 . PS-MS90-FA	BT40	90	M16	60	35	23	17	15	10				17,00
A-BT . 050 . PS-MS30-FA	BT50	30	M24	85	45	38	25	23	17				24,00
A-BT . 050 . PS-MS45-FA	BT50	45	M24	85	45	38	25	23	17				24,00
A-BT . 050 . PS-MS90-FA	BT50	90	M24	85	45	38	25	23	17				24,00



MAS BT - without hole with OR

MAS BT - senza foro con OR

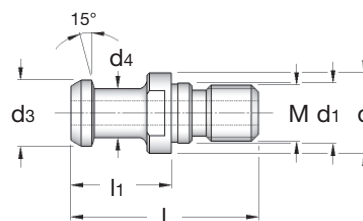
art.	BT/SK	A	M	l	l1	d	d1	d3	d4				€
A-SK . 040 . PS-MS30-FB	SK40	30	M16	57	32	23	17	15	10				19,00
A-BT . 040 . PS-MS30-FB	BT40	30	M16	60	35	23	17	15	10				17,00
A-SK . 040 . PS-MS45-FB	SK40	45	M16	57	32	23	17	15	10				19,00
A-BT . 040 . PS-MS45-FB	BT40	45	M16	60	35	23	17	15	10				17,00
A-SK . 040 . PS-MS90-FB	SK40	90	M16	57	32	23	17	15	10				19,00
A-BT . 040 . PS-MS90-FB	BT40	90	M16	60	35	23	17	15	10				17,00
A-SK . 050 . PS-MS30-FB	BT50	30	M24	85	45	38	25	23	17				24,00
A-BT . 050 . PS-MS45-FB	BT50	45	M24	85	45	38	25	23	17				24,00
A-BT . 050 . PS-MS90-FB	BT50	90	M24	85	45	38	25	23	17				24,00



MAS BT - with hole and OR

MAS BT - con foro e OR

art.	BT/SK	A	M	l	l1	d	d1	d3	d4	hole			€
A-SK . 040 . PS-MS30-FB-WH	SK40	30	M16	57	32	23	17	15	10	4			19,00
A-BT . 040 . PS-MS30-FB-WH	BT40	30	M16	60	35	23	17	15	10	4			17,00
A-SK . 040 . PS-MS45-FB-WH	SK40	45	M16	57	32	23	17	15	10	4			19,00
A-BT . 040 . PS-MS45-FB-WH	BT40	45	M16	60	35	23	17	15	10	4			17,00
A-SK . 040 . PS-MS90-FB-WH	SK40	90	M16	57	32	23	17	15	10	4			19,00
A-BT . 040 . PS-MS90-FB-WH	BT40	90	M16	60	35	23	17	15	10	4			17,00
A-BT . 050 . PS-MS30-FB-WH	BT50	30	M24	85	45	38	25	23	17	6			24,00
A-BT . 050 . PS-MS45-FB-WH	BT50	45	M24	85	45	38	25	23	17	6			24,00
A-BT . 050 . PS-MS90-FB-WH	BT50	90	M24	85	45	38	25	23	17	6			24,00



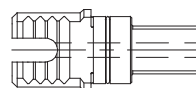
JIS B 6339 - with hole

JIS B 6339 - con foro

art.	SK	M	d	d1	d3	d4	l	l1	hole				€
A-SK . 040 . PS-JS	40	M16	23	17	19	14	54	29	7				19,00

Clamping bolts Vite di serraggio

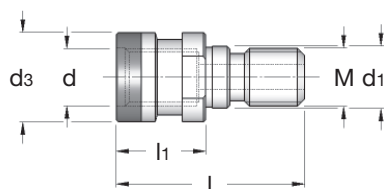
A



for KT holder with hole and OR

per mandrini KT con foro e OR

art.	KT											€
A-KT . 032 . PS-KT	32											177,00
A-KT . 040 . PS-KT	40											177,00
A-KT . 050 . PS-KT	50											177,00
A-KT . 063 . PS-KT	63											177,00
A-KT . 080 . PS-KT	80											177,00



Adaptor stud

Adattatore per tirante

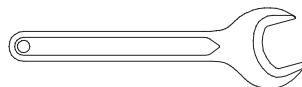
art.	T	M	d	d1	d3	l1	l					€
A-SK . 040 . AD-PS	SK40	M16	M16	17	25,3	25	53					18,00
A-SK . 040 . AD-PS	BT40	M16	M16	17	25,3	28	56					19,00



art.		€
A-CK . ER16-CY		22,00
A-CK . ER20-CY		25,00
A-CK . ER25-CY		24,00
A-CK . ER32-CY		29,00
A-CK . ER40-CY		39,00



art.		€
A-CK . ER8-MN		21,00
A-CK . ER11-MN		24,00
A-CK . ER16-MN		24,00
A-CK . ER20-MN		27,00
A-CK . ER25-MN		33,00



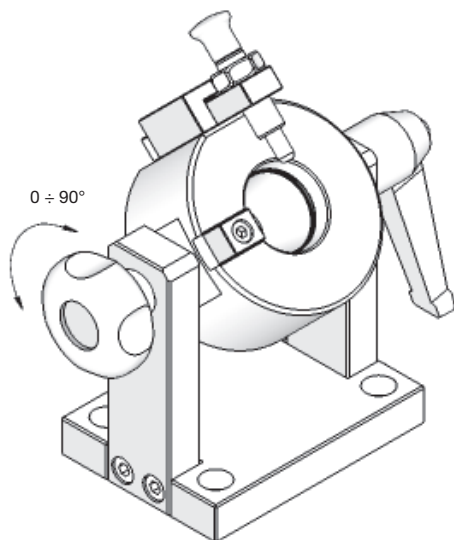
art.		€
A-CK . ER11-HX		8,00
A-CK . ER16-HX		12,00
A-CK . ER20-HX		12,00



art.	D	€
A-CK . SM/SM-E . 16	16	21,00
A-CK . SM/SM-E . 22	22	26,00
A-CK . SM/SM-E . 27	27	28,00
A-CK . SM/SM-E . 32	32	35,00
A-CK . SM/SM-E . 40	40	49,00
A-CK . SM/SM-E . 50	50	64,00

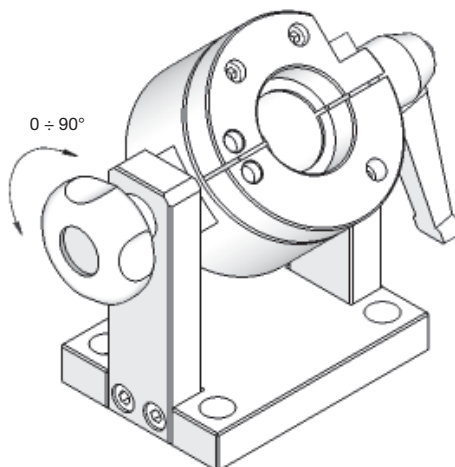
for DIN69871 and MAS BT
per DIN69871 e MAS BT

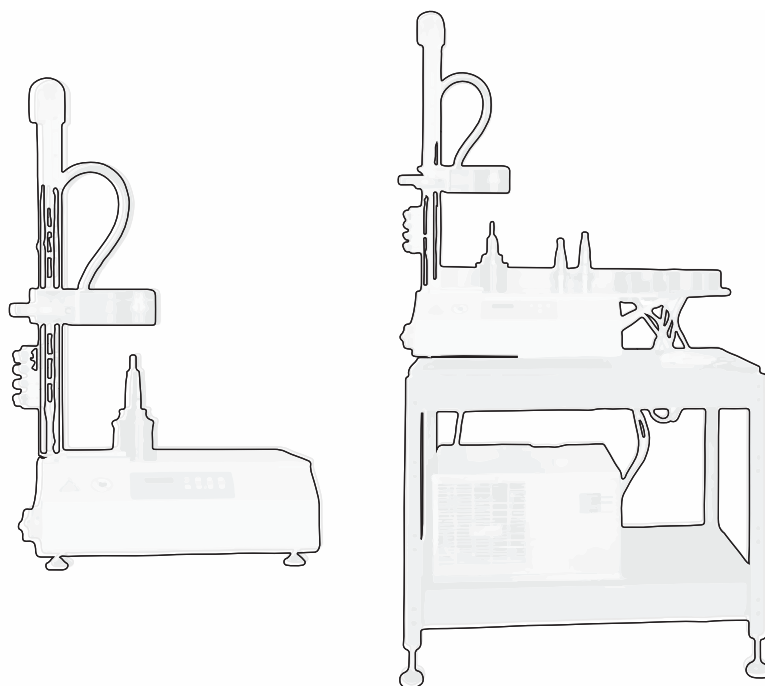
art.	dimension	€
A-MU . 040 . SK-BT	135 x 100 x 155	250,00
A-MU . 050 . SK-BT	135 x 100 x 195	310,00



for HSK
per HSK

art.	dimension	€
A-MU . 063 . HSK	135 x 100 x 175	350,00
A-MU . 100 . HSK	135 x 100 x 205	500,00





art.	dimension	connection	p / Kw	kg	€
SF . M-H . 11	650 x 500 x 1120	3 ~ AC 400V / 50 Hz + N + PE CEE - Stecker 5x16 A / 400V CEE 16 - 7h, 5pol., rot	11	50	8.500,00
SF . M-C . 01	560 x 450 x 1120	1 ~ 230V / 50 Hz Schuko-Europa-Stecker CEE 7/7, 3 pol.	0.6	45	3.500,00

M-H - Shrinking Device (Basic device with induction coil and vertical column, 2 holding sleeves, 4 stop rings, tool tray and protective gloves are included).

M-H - Macchina a calettamento (Macchina base con bobina di induzione e colonna verticale, 2 supporti mandrino, 4 anelli di induzione, vassoio di alloggiamento utensili e guanti di protezione sono inclusi).

M-C - Cooling device with integrated electronics and cooling unit for cooling tools, base plate extension for holding cooling bushes and cooling inserts and including 3 cooling bushes and 5 cooling inserts for standard chuck.

M-C - Macchina di raffreddamento separato con elettronica integrata per il raffreddamento degli utensili, estensione del piano di lavoro per alloggiamento delle teste e degli inserti di raffreddamento e incluse 3 teste di raffreddamento e 5 inserti per mandrini standard.

Adapter flanges Flange di adattamento

art.	for	€
SF . M-AF . HSK32	HSK32	93,00
SF . M-AF . HSK40	HSK40	93,00
SF . M-AF . HSK50	HSK50	93,00
SF . M-AF . HSK63	HSK63	93,00
SF . M-AF . HSK80	HSK80	93,00
SF . M-AF . HSK100	HSK100	93,00
SF . M-AF . KT32	KT32	93,00
SF . M-AF . KT40	KT40	93,00
SF . M-AF . KT50	KT50	93,00
SF . M-AF . KT63	KT63	93,00
SF . M-AF . KT80	KT80	93,00
SF . M-AF . SK30	SK30	93,00
SF . M-AF . SK40	SK40	93,00
SF . M-AF . SK50	SK50	93,00



TOOL HOLDERS

EVOR





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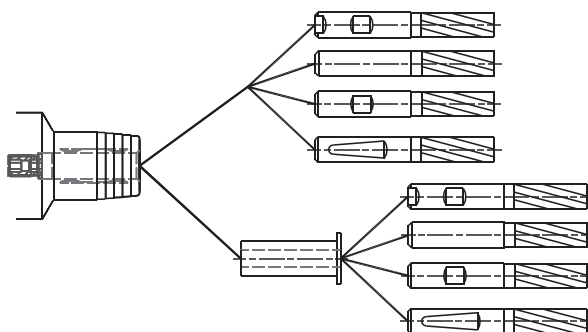


Technical specifications for HY

- Material 1600-1800 N/mm² tensile strength
- Hardness 52+2HRC
- Balanced tool holders
- Laser inscription
- Max. revolution 40.000 rpm (observe the rpm limits)
- Best operating temperature 20-50°C;
higher temperatures on request, not higher than 80°C
- Max. coolant pressure 80 bar
- Range of adjustment of length 10 mm
- Usable shafts (tolerance h6) with and without reducing sleeves:
 - DIN 1835 Form A, B, C, D
 - DIN 6535 Form H, HB, HE

Informazioni tecniche per mandrini idraulici

- Resistenza del materiale alla trazione 1600-1800 N/mm²
- Durezza 52+2HRC
- Portautensile bilanciato
- Marcatura laser
- Massima rotazione 40.000 rpm (rispettare i rpm limite)
- Temperatura ottimale di funzionamento 20-50 °C;
massima temperatura di impiego non superiore a 80 °C
- Massima pressione del refrigerante 80 bar
- Intervallo di regolazione della lunghezza 10 mm
- Diametro interno del mandrino (tolleranza h6) con o senza bussola di riduzione:
 - DIN 1835 Forma A, B, C, D
 - DIN 6535 Forma H, HB, HE



Permitted transferable torques for hydraulic chuck | Coppie di serraggio per mandrini idraulici

Transferable torques for direct clamping (torque in Nm) | Coppie di serraggio per bloccaggio diretto (serraggio in Nm)

Clamping diameter in mm Diametro interno del mandrino in mm	6	8	10	12	14	16	18	20	25	32
Minimum clamping depth in mm Profondità di serraggio minima	27	27	31	36	36	39	39	41	47	51
Shank minimum h6 Tolleranza del gambo h6 massimo	20	30	47	80	100	160	200	330	400	650
Shank maximum h6 Tolleranza del gambo h6 minimo	30	45	85	140	160	230	270	400	470	730

Transferable torques for HY hydraulic chucks, clamping diameter 32 mm with reduction sleeve (torque in Nm) Coppie di serraggio, diametro interno del mandrino 32 mm con bussola di riduzione (serraggio in Nm)

Clamping diameter in mm Diametro interno del mandrino in mm	6	8	10	12	14	16	18	20	25	
Shank minimum h6 Tolleranza del gambo h6 massimo	30	45	60	120	120	180	220	250	360	
Shank maximum h6 Tolleranza del gambo h6 minimo	45	65	110	170	170	230	300	320	440	

Transferable torques for HY hydraulic chucks, clamping diameter 20 mm with reduction sleeve (torque in Nm) Coppie di serraggio per diametro interno del mandrino 20 mm con bussola di riduzione (serraggio in Nm)

Clamping diameter in mm Diametro interno del mandrino in mm	3	4	5	6	8	10	12	14	16	
Shank minimum h6 Tolleranza del gambo h6 massimo	6	9	16	30	55	90	120	135	190	
Shank maximum h6 Tolleranza del gambo h6 minimo	10	12	22	40	75	120	150	170	260	

Transferable torques for HY hydraulic chucks, clamping diameter 12 mm with reduction sleeve (torque in Nm) Coppie di serraggio per diametro interno del mandrino 12 mm con bussola di riduzione (serraggio in Nm)

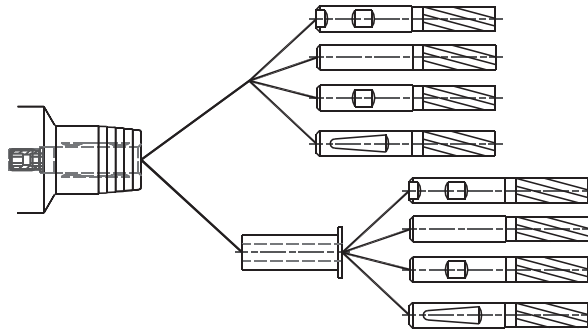
Clamping diameter in mm Diametro interno del mandrino in mm	3	4	5	6	8					
Shank minimum h6 Tolleranza del gambo h6 massimo	3	4	7	12	18					
Shank maximum h6 Tolleranza del gambo h6 minimo	4	8	12	20	26					

Technical specifications for HYF

- Material 1600-1800 N/mm² tensile strength
- Hardness 52+2HRC
- Balanced tool holders
- Laser inscription
- Max. revolution 40.000 rpm (observe the rpm limits)
- Best operating temperature 20-80°C;
higher temperatures on request, not higher than 100°C
- Max. coolant pressure 80 bar
- Range of adjustment of length 10 mm
- Usable shafts (tolerance h6) with and without reducing sleeves:
 - DIN 1835 Form A, B, C, D
 - DIN 6535 Form H, HB, HE

Informazioni tecniche per mandrini idraulici HYF

- Resistenza del materiale alla trazione 1600-1800 N/mm²
- Durezza 52+2HRC
- Portautensile bilanciato
- Marcatura laser
- Massima rotazione 40.000 rpm (rispettare i rpm limite)
- Temperatura ottimale di funzionamento 20-80 °C;
massima temperatura di impiego non superiore a 100 °C
- Massima pressione del refrigerante 80 bar
- Intervallo di regolazione della lunghezza 10 mm
- Diametro interno del mandrino (tolleranza h6) con o senza bussola di riduzione:
 - DIN 1835 Forma A, B, C, D
 - DIN 6535 Forma H, HB, HE



Permitted transferable torques for HYF hydraulic chuck | Coppie di serraggio per mandrini idraulici HYF

Permitted transferable torques for HYF | Coppie di serraggio per bloccaggio diretto (serraggio in Nm)

Clamping diameter in mm Diametro interno del mandrino in mm	6	8	10	12	14	16	18	20	25	32
Minimum clamping depth in mm Profondità di serraggio minima	27	27	31	36	36	39	39	41	47	51
Shank minimum h6 Tolleranza del gambo h6 massima	20	30	47	80	100	160	200	330	400	650
Shank maximum h6 Tolleranza del gambo h6 minima	30	45	85	140	160	230	270	400	470	730

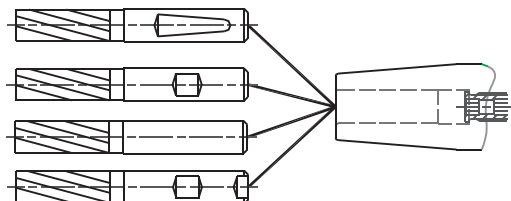


Technical specifications for SF

- Material 1600-1800 N/mm²
- Hardness 52+2HRC
- Balanced tool holders
- Laser inscription
- Maximum revolution 40,000 rpm (observe the rpm limits)
- Shrink temperature 100-420°C
- Maximum shrink temperature 500°C
- Coolant pressure max. 80 bar
- Adjustment range 10 mm, from both sides adjustable
- Suitable for clamping: cylindrical shank (tolerance h6)
- Suitable for clamping: HSS and carbide tools

Informazioni tecniche per mandrini a calettamento

- Resistenza del materiale alla trazione 1600-1800 N/mm²
- Durezza 52+2HRC
- Portautensile bilanciato
- Marcatura laser
- Massima rotazione 40.000 rpm (rispettare i rpm limite)
- Temperatura di calettamento 100-420°C
- Massima temperatura di calettamento 500°C
- Massima pressione del refrigerante 80 bar
- Intervallo di regolazione della lunghezza 10 mm, da entrambi i lati
- Adatto per serrare: gambo cilindrico (tolleranza h6)
- Adatto per serrare: utensili in HSS ed in metallo duro



Permitted transferable torques for SF shrink fit chuck | Coppie di serraggio per mandrini a calettamento SF

Transferable torques for direct clamping (torque in Nm) | Coppie di serraggio per bloccaggio diretto (serraggio in Nm)

Clamping diameter in mm Diametro interno del mandrino in mm	3	4	5	6	8	10	12	14	16	18	20	25	32
Minimum clamping depth in mm Profondità di serraggio minima	12	16	20	26	26	31	37	37	40	40	42	48	52
Safe transferable torque Torsione trasferibile sicura	4	11	17	24	45	82	145	190	200	290	450	530	700

TOOL HOLDERS

EXOR





DIN 69871	Description of the technical standard - SK	Descrizione della normativa tecnica - SK
JIS B6339	Description of the technical standard - BT	Descrizione della normativa tecnica - BT
DIN 69893-1	Description of the technical standard - HSK-A	Descrizione della normativa tecnica - HSK-A
DIN 69893-5	Description of the technical standard - HSK-E	Descrizione della normativa tecnica - HSK-E
DIN 69893-6	Description of the technical standard - HSK-F	Descrizione della normativa tecnica - HSK-F
ISO 26623-1	Description of the technical standard - KT	Descrizione della normativa tecnica - KT
DIN 1835	Description of the technical standard - Cylindrical shank	Descrizione della normativa tecnica - Attacco cilindrico
DIN 69880	Description of the technical standard - Weldon shank	Descrizione della normativa tecnica - Attacco Weldon
Form AD	Internal coolant supply for SK-BT	Adduzione del refrigerante interna per attacco SK-BT
Form AD/B	Internal/external coolant supply for SK-BT	Adduzione del refrigerante assiale ed alla flangia per SK-BT
Form AF	Front coolant supply	Adduzione del refrigerante frontale
	Internal coolant supply	Adduzione refrigerante presente
	Without internal coolant supply	Adduzione refrigerante assente
	Radial run-out from the interface to the tool holder location hole/centering pivot	Grado di tolleranza per il run-out radiale dall'interfaccia al centro del porta utensile
	Axial run-out from the interface to the contact face	Grado di tolleranza per il run-out assiale dall'interfaccia alla superficie di contatto
	Shank tolerance	Tolleranza del gambo
G 2,5 30.000 rpm	Balancing values (es.: G 2,5 30.000 rpm)	Grado di bilanciatura (es.: G 2,5 30.000 rpm)



Hollow Shank Technology - Balancing of Tool Holders according to FKM-Standard

Not only are tolerances and concentricity to be observed during increasing processing speeds, but also the state of balance of a tool combination (tool holder, adapter, cutting tool ...). Tool holders which are predominantly used at higher speeds are therefore balanced from the start. The balancing information appears on each respective item concerned.

The table shows you the upper limit of e_{per} for various quality grades with dependence on the max. operational speed.



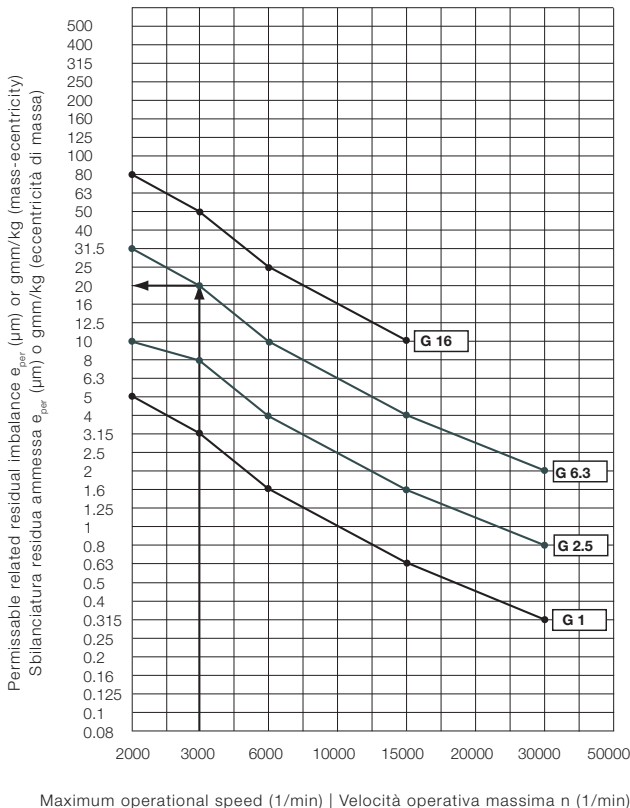
Tecnologia del cono - Equilibratura dei portautensili secondo la norma FKM.

Non solo le tolleranze e la concentricità devono essere controllate nei processi a sempre maggiore velocità ma anche il bilanciamento degli utensili assemblati (portautensile, adattatore, utensile, ...).

Mandrini utilizzati principalmente ad alta velocità sono bilanciati in fabbrica. Le specifiche di bilanciatura sono indicate su ogni articolo.

La tabella mostra il limite superiore di e_{per} per diversi gradi con riferimento alla massima velocità di esercizio.

Quality grades according to ISO 1940 and permissible residual imbalance or speed.
Qualità secondo l'ISO 1940 e sbilanciatura residua ammessa



Example | Esempio:

Operational Speed
Velocità di esercizio = 3000 min⁻¹

Quality grade G
Grado di qualità G = 6,3

Permissible residual imbalance
Sbilanciatura residua ammessa = 20 µm | 20 gmm/kg

$$e_{per} = \frac{V_{per}}{\omega} \sim \frac{6.3}{300} = 0,020 \text{ mm}$$

See ISO 1940 for further information and formulas
Consultate la normativa ISO 1940 per ulteriori informazioni



e = centre of gravity, related imbalance in µm
 e_{per} = permissible related residual imbalance in µm
 ω = angular frequency in rad/s
 V_{per} = permissible path velocity of the centre of gravity (mm/s)
 $e_{per} = \frac{V_{per}}{\omega}$ (in µm)

e = centro di gravità, riferito al non bilanciato in µm
 e_{per} = sbilancio residuo ammesso in µm
 ω = Frequenza angolare in rad/s
 V_{per} = velocità ammessa del centro di gravità (mm/s)
 $e_{per} = \frac{V_{per}}{\omega}$ (in µm)

Cod.		Cod.		Cod.	
SK - HYF	12	BT - HYF	40	HSK-A - HYF	70
SK - HYF-S	13	BT - HYF-S	41	HSK-A - HYF-S	71
SK - HY	14	BT - HY	42	HSK-A - HY	72
SK - HY-S	15	BT - HY-S	43	HSK-A - HY-S	73
SK - HY-LS	16	BT - HY-LS	44	HSK-A - HY-LS	74
SK - HY-EK	17	BT - HY-EK	45	HSK-A - SF 40/50	75
SK - SF 40	18	BT - SF 30	46	HSK-A - SF 63	76
SK - SF 50	19	BT - SF 40	47	HSK-A - SF 80	77
SK - SF-S	20	BT - SF 50	48	HSK-A - SF 100	78
SK - W 40	21	BT - W 30	49	HSK-A - SF-S	79
SK - W 50	22	BT - W 40	50	HSK-A - W 40/50	80
SK - W -AF	23	BT - W 50	51	HSK-A - W 63	81
SK - ER-NT AD	24	BT - W 40 AD/B	52	HSK-A - W 80/100	82
SK - ER-NT AD/B	25	BT - W 50 AD/B	53	HSK-A - ER-NT	83
SK - ER-LT	26	BT - W AF	54	HSK-A - ER-LT	84
SK - ER-MN	27	BT - ER-NT	55	HSK-A - SM	85
SK - SM AD	28	BT - ER-NT AD/B	56	HSK-A - SM-E 50/63	86
SK - SM AD/B	29	BT - ER-LT	57	HSK-A - SM-E 80/100	87
SK - SM-E 40	30	BT - ER-LT AD/B	58	HSK-A - SI 63	88
SK - SM-E 50	31	BT - ER-MN	59	HSK-A - SI 100	89
SK - SM-E AD/B	32	BT - SM	60	HSK-A - TB	90
SK - SI	33	BT - SM-E	61	HSK-A - TH	91
SK - TB	34	BT - SM-E AF	62	HSK-E - HY-S	94
SK - TH	35	BT - SI	63	HSK-E - SF	95
		BT - TH	64	HSK-E - SF-S	96

Cod.		Cod.		Cod.	
HSK-E - SF-ES	97	KT - KT-RR	125	VDI - KT-RE	140
HSK-E - W	98	KT - TB	126	KT - TA	141
HSK-E - ER-N	99	KT - BH	127	CE - HY	144
HSK-E - ER-S	100	KT - ST	128	CE - EM	145
HSK-E - SM	101	KT - DT	129	CE - EN	146
HSK-E - SI	102	KT - TT	130	CIL-W - UDC	147
HSK-F - HYS	104	KT - T45	131	CIL-VDI - UDC	147
HSK-F - SF	105	KT - RT	132	accessories accessori:	
		KT - GR	132	CE - SF	152
KT - HY-S	112	KT - T95 CNMG12	133	CE - SF-R	153
KT - SF 32/40/50	113	KT - T93 DNMG15	133	CE - SF-S	154
KT - SF 63	114	KT - T93 DCMT11	134	CE - ER	154
KT - SF 80	115	KT - T95 WNMG08	134	CE - SI	155
KT - W	116	KT - T62.5 DCMT11	135	A - SF	156
KT - DH	117	KT - B95 CCMT09	135	A - HY/HYF	158
KT - ER-N	118	KT - B93 DCMT11	136	A - HYF	161
KT - ER-S	119	KT - B107.5 VCMT16	136	A - ER	162
KT - TH	120			A - CN	173
KT - SM	121	VDI - KT-A	137	A - CT	174
KT - SM-L	122	VDI - KT-RX	137	A - PS	175
KT - SI	123	VDI - KT-AX	138	A - CK	180
KT - KT-AE	124	VDI - KT-RI	138	A - MU	180
KT - KT-RE	124	VDI - KT-RS	139	SF - M-H/M-C	181
KT - KT-CR	124	VDI - KT-VD	139		
KT - KT-TR	125	VDI - KT-VH	140		



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