

EMAC TOOLS

TURIN

CATALOGO

INDICE GENERALE

GENERAL INDEX

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BUSSOLE PORTAMASCHIO, PINZE, TIRANTI E RICAMBI

ADAPTERS, COLLETS,
PULL STUDS AND
ACCESSORIES

1



BUSSOLE PORTAMASCHIO, PINZE, TIRANTI E RICAMBI

ADAPTERS, COLLETS, PULL STUDS AND ACCESSORIES



BUSSOLE FISSE
ADAPTORS RIGID

1A



BUSSOLE FISSE A FISSAGGIO MANUALE
ADAPTORS RIGID BY SET SCREW



BUSSOLE FISSE ALLUNGABILI
ADAPTORS RIGID WITH LENGTH ADJUSTEMENT

1B



PORTAPINZE
ADAPTORS ER COLLET



BUSSOLE DI RIDUZIONE
ADAPTORS REDUCERS

1C



BUSSOLE FISSE ATTACCO DIN/238
ADAPTORS RIGID DIN/238



BUSSOLE PORTAFILIERA
DIE HOLDER ADAPTOR



BUSSOLE CON FRIZIONE
ADAPTORS WITH CLUTCH

1D



BUSSOLE CON FRIZIONE A FISSAGGIO MANUALE
ADAPTORS WITH CLUTCH BY SET SCREW



BUSSOLE CON FRIZIONE ALLUNGABILI
ADAPTORS WITH CLUTCH AND LENGTH ADJUSTEMENT

1E



PROLUNGHE ABV
TAP EXTENSIONS ABV

1F



KIT VALIGETTA
KIT

1G

BUSSOLE PORTAMASCHIO, PINZE, TIRANTI E RICAMBI

ADAPTERS, COLLETS, PULL STUDS AND ACCESSORIES



PINZE DI SERRAGGIO ER
ER CLAMPING COLLETS



PINZE DI ALTA PRECISIONE UP
HIGH PRECISION COLLETS UP



PINZE TENUTA REFRIGERANTE ERXG
COLLETS FOR COOLANT ERXG



PINZE TENUTA REFRIGERANTE MECCANICA CON TAGLI SSC
STEEL SEALED COLLETS FOR COOLANT THROUGH TOOLS SSC



PINZE CON FORI DI LUBRIFICAZIONE JET
COLLETS WITH COOLANT HOLES JET



PINZE PORTAMASCHIO CON QUADRO ERX
TAPPING COLLETS WITH INTERNAL SQUARE ERX



PINZE CON OSCILLAZIONE RADIALE PER ALESATORI ER-PA
FLOATING COLLETS FOR REAMERS ER-PA



PINZE A CAMBIO RAPIDO TRAZIONE ERT - ERF
QUICK CHANGE AND TRACTION COLLETS ERT - ERF



PINZE DI PRECISIONE ERCD
PRECISION COLLETS ERCD



PINZE DI PRECISIONE STANDARD EOC
STANDARD PRECISION COLLETS EOC



PINZE TIPO "TG"
COLLETS "TG" TYPE



PINZE TIPO "DA"
COLLETS "DA" TYPE



PINZE CILINDRICHE PER MANDRINI A FORTE SERRAGGIO
COLLETS FOR POWER MILLING CHUCKS



PINZE DI SERRAGGIO BARRA
COLLETS FOR SINGLE - SPINDLE LATHES

1H

BUSSOLE PORTAMASCHIO, PINZE, TIRANTI E RICAMBI

ADAPTERS, COLLETS, PULL STUDS AND ACCESSORIES



GHIERE MINI
MINI ER NUTS



GHIERE STANDARD
STANDARD NUTS



GHIERE STANDARD A SFERE
FRICTION BEARING NUTS



GHIERE MINI PINZE ER - ALTA VELOCITÀ
NOTCH - FREE MINI NUTS FOR HIGH SPEED



GHIERE MINI CON DISCO DI TENUTA DEL REFRIGERANTE
NUTS WITH SEAL DISCS MINI TYPE



GHIERE CON CANALI DI LUBRIFICAZIONE
NUTS WITH WITH COOLANT CHANNELS



GHIERE CON FILETTO ESTERNO
EXTERNALLY THREADED NUTS



CHIAVI PER GHIERE
WRENCHES FOR NUTS



TIRANTI
PULL STUDS



ANELLI DISTANZIATORI
SPACERS



ACCESSORI
ACCESSORIES

1I

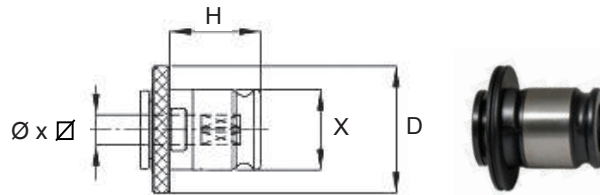
1J

1K

1L

Bussole fisse senza frizione

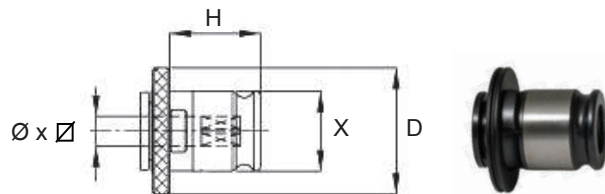
Quick change adaptors for tapping without safety clutch


SE DIN

CODICE	TIPO	GAP	Ø x Ø	X	H	D	EUR
SE0-2.5 x 2.1	0	M1 - 1.8	2.5 x 2.1	13	19.5	22	
SE0-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1				
SE0-3.5 x 2.7		M3	3.5 x 2.7				
SE0-4 x 3		M3.5	4 x 3				
SE0-4.5 x 3.4		M4	4.5 x 3.4				
SE0-6 x 4.9		M5 - 6 - 8	6 x 4.9				
SE0-7 x 5.5		M10	7 x 5.5				
SE0-8 x 6.2		M8	8 x 6.2				
SE1-2.5 x 2.1	1	M1 - 1.8	2.5 x 2.1	19	21.5	30	
SE1-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1				
SE1-3.5 x 2.7		M3	3.5 x 2.7				
SE1-4 x 3		M3.5	4 x 3				
SE1-4.5 x 3.4		M4	4.5 x 3.4				
SE1-6 x 4.9		M5 - 6 - 8	6 x 4.9				
SE1-7 x 5.5		M10	7 x 5.5				
SE1-8 x 6.2		M8	8 x 6.2				
SE1-9 x 7		M12	9 x 7				
SE1-10 x 8		M10	10 x 8				
SE1-11 x 9		M14	11 x 9				
SE2-3.5 x 2.7	2	M3	3.5 x 2.7	31	35	48	
SE2-4 x 3		M3.5	4 x 3				
SE2-4.5 x 3.4		M4	4.5 x 3.4				
SE2-6 x 4.9		M5 - 6 - 8	6 x 4.9				
SE2-7 x 5.5		M10	7 x 5.5				
SE2-8 x 6.2		M8	8 x 6.2				
SE2-9 x 7		M12	9 x 7				
SE2-10 x 8		M10	10 x 8				
SE2-11 x 9		M14	11 x 9				
SE2-12 x 9		M16	12 x 9				
SE2-14 x 11		M18	14 x 11				
SE2-16 x 12		M20	16 x 12				
SE2-18 x 14.5		M22 - 24	18 x 14.5				
SE3-9 x 7		3	M12				9 x 7
SE3-10 x 8	M10		10 x 8				
SE3-11 x 9	M14		11 x 9				
SE3-12 x 9	M16		12 x 9				
SE3-14 x 11	M18		14 x 11				
SE3-16 x 12	M20		16 x 12				
SE3-18 x 14.5	M22 - 24		18 x 14.5				
SE3-20 x 16	M27		20 x 16				
SE3-22 x 18	M30		22 x 18				
SE3-25 x 20	M33		25 x 20				
SE3-28 x 22	M36		28 x 22				
SE4-16 x 12	4	M20	16 x 12	60	62.8	90	
SE4-18 x 14.5		M22 - 24	18 x 14.5				
SE4-20 x 16		M27	20 x 16				
SE4-22 x 18		M30	22 x 18				
SE4-25 x 20		M33	25 x 20				
SE4-28 x 22		M36	28 x 22				
SE4-32 x 24		M39 - 42	32 x 24				
SE4-36 x 29		M45 - 48	36 x 29				

Bussole fisse senza frizione

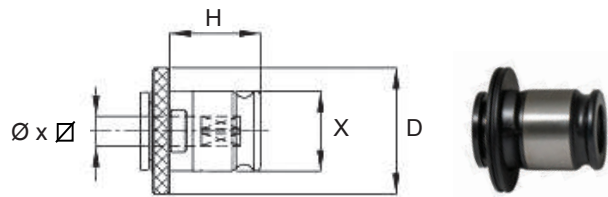
Quick change adaptors for tapping without safety clutch


SE ISO

CODICE	TIPO	CAP	Ø x Ø	X	H	D	EUR
SE0-2.24 x 1.8	0	M3	2.24 x 1.8	13	19.5	22	
SE0-2.5 x 2		M2 - M3.5	2.5 x 2				
SE0-2.8 x 2.24		M2.2 - M2.5	2.8 x 2.24				
SE0-3.15 x 2.5		M3 - M4	3.15 x 2.5				
SE0-3.55 x 2.8		M3.5 - M4.5	3.55 x 2.8				
SE0-4 x 3.15		M4 - M5	4 x 3.15				
SE0-4.5 x 3.55		M4.5 - M4.6	4.5 x 3.55				
SE0-5 x 4		M5	5 x 4				
SE0-5.6 x 4.5		M7	5.6 x 4.5				
SE0-6.3 x 5		M6 - M8	6.3 x 5				
SE0-7.1 x 5.6		M7 - M10	7.1 x 5.6				
SE0-8 x 6.3		M8 - M10	8 x 6.3				
SE1-2.24 x 1.8	1	M3	2.24 x 1.8	19	21.5	30	
SE1-2.5 x 2		M2 - M3.5	2.5 x 2				
SE1-2.8 x 2.24		M2.2 - M2.5	2.8 x 2.24				
SE1-3.15 x 2.5		M3 - M4	3.15 x 2.5				
SE1-3.55 x 2.8		M3.5 - M4.5	3.55 x 2.8				
SE1-4 x 3.15		M4 - M5	4 x 3.15				
SE1-4.5 x 3.55		M4.5 - M4.6	4.5 x 3.55				
SE1-5 x 4		M5	5 x 4				
SE1-5.6 x 4.5		M7	5.6 x 4.5				
SE1-6.3 x 5		M6 - M8	6.3 x 5				
SE1-7.1 x 5.6		M7 - M10	7.1 x 5.6				
SE1-8 x 6.3		M8 - M10	8 x 6.3				
SE1-9 x 7.1		M9 - M12	9 x 7.1				
SE1-10 x 8		M10	10 x 8				
SE1-11.2 x 9	M14	11.2 x 9					

Bussole fisse senza frizione

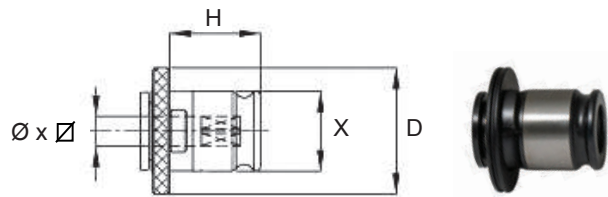
Quick change adaptors for tapping without safety clutch


SE ISO

CODICE	TIPO	CAP	MASCHIO	X	H	D	EUR
SE2-6.3 x 5	2	M6 - M8	6.3 x 5	31	35	48	
SE2-7.1 x 5.6		M7 - M10	7.1 x 5.6				
SE2-8 x 6.3		M8 - M10	8 x 6.3				
SE2-9 x 7.1		M9 - M12	9 x 7.1				
SE2-10 x 8		M10	10 x 8				
SE2-11.2 x 9		M14	11.2 x 9				
SE2-12.5 x 10		M16	12.5 x 10				
SE2-14 x 11.2		M18 - M20	14 x 11.2				
SE2-16 x 12.5		M22	16 x 12.5				
SE2-18 x 14		M24	18 x 14				
SE3-11.2 x 9	3	M14	11.2 x 9	48	55.5	70	
SE3-12.5x 10		M16	12.5 x 10				
SE3-14 x 11.2		M18 - M20	14 x 11.2				
SE3-16 x 12.5		M22	16 x 12.5				
SE3-18 x 14		M24	18 x 14				
SE3-20 x 16		M30	20 x 16				
SE3-22.4 x 18		M33	22.4 x 18				
SE3-25 x 20		M33 - M36	25 x 20				
SE3-28 x 22.4		M39 - M42	28 x 22.4				
SE4-16 x 12.5	4	M22	16 x 12.5	60	62.8	90	
SE4-18 x 14		M24	18 x 14				
SE4-20 x 16		M30	20 x 16				
SE4-22.4 x 18		M33	22.4 x 18				
SE4-25 x 20		M33 - M36	25 x 20				
SE4-28 x 22.4		M39 - M42	28 x 22.4				
SE4-31.5 x 25		M45 - M48	31.5 x 25				

Bussole fisse senza frizione

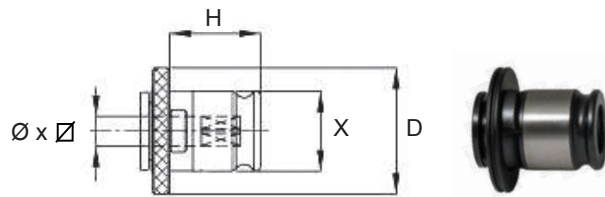
Quick change adaptors for tapping without safety clutch


SE JIS

CODICE	TIPO	CAP	MASCHIO	X	H	D	EUR
SE0-3 x 2.5	0	M2	3 x 2.5	13	19.5	22	
SE0-4 x 3.2		M3	4 x 3.2				
SE0-5.5 x 4.5		M5	5.5 x 4.5				
SE0-6 x 4.5		M6	6 x 4.5				
SE0-6.2 x 5		M8	6.2 x 5				
SE0-8 x 6		M8	8 x 6				
SE1-3 x 2.5	1	M2	3 x 2.5	19	21.5	30	
SE1-4 x 3.2		M3	4 x 3.2				
SE1-5.5 x 4.5		M5	5.5 x 4.5				
SE1-6 x 4.5		M6	6 x 4.5				
SE1-6.2 x 5		M8	6.2 x 5				
SE1-8 x 6		M8	8 x 6				
SE1-8.5 x 6.5		M12	8.5 x 6.5				
SE1-9.5 x 7		M13	9.5 x 7				
SE1-10.5 x 8		M14	10.5 x 8				
SE2-6 x 4.5	2	M6	6 x 4.5	31	35	48	
SE2-6.2 x 5		M8	6.2 x 5				
SE2-8 x 6		M8	8 x 6				
SE2-8.5 x 6.5		M12	8.5 x 6.5				
SE2-9.5 x 7		M13	9.5 x 7				
SE2-10.5 x 8		M14	10.5 x 8				
SE2-13 x 10		M17	13 x 10				
SE2-15 x 12		M20	15 x 12				
SE2-17 x 13	M22	17 x 13					
SE3-10.5 x 8	3	M14	10.5 x 8	48	55.5	70	
SE3-13 x 10		M17	13 x 10				
SE3-15 x 12		M20	15 x 12				
SE3-17 x 13		M22	17 x 13				
SE3-19 x 15		M24	19 x 15				
SE3-20 x 15		M27	20 x 15				
SE3-21 x 17		M28	21 x 17				
SE3-23 x 17		M30	23 x 17				
SE3-24 x 19		M32	24 x 19				
SE3-25 x 19		M33	25 x 19				
SE3-26 x 21		M34	26 x 21				
SE3-28 x 21		M36	28 x 21				

Bussole fisse senza frizione in pollici

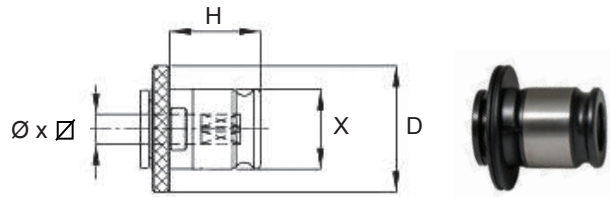
Quick change adaptors for tapping without safety clutch


CE INCH

CODICE	TIPO	MASCHIO	Ø x Ø	X	H	D	EUR
CE1-#6	1	#6	.141 x .110	0.75	0.85	1.18	
CE1-#8		#8	.168 x .131				
CE1-#10		#10	.194 x .152				
CE1-#12		#12	.220 x .165				
CE1-1/4		1/4	.255 x .191				
CE1-5/16		5/16	.318 x .238				
CE1-3/8		3/8	.381 x .286				
CE1-7/16		7/16	.323 x .242				
CE1-1/2		1/2	.367 x .275				
CE1-9/16		9/16	.429 x .322				
CE1-3/8SS		3/8SS	.275 x .206				
CE1-1/8SS		1/8SS	.3125 x .234				
CE1-1/8LS		1/8LS	.4375 x .328				
CE2-1/4		2	1/4				.255 x .191
CE2-5/16	5/16		.318 x .238				
CE2-3/8	3/8		.381 x .286				
CE2-7/16	7/16		.323 x .242				
CE2-1/2	1/2		.367 x .275				
CE2-9/16	9/16		.429 x .322				
CE2-3/8SS	3/8SS		.275 x .206				
CE2-1/8SS	1/8SS		.3125 x .234				
CE2-1/8LS	1/8LS		.4375 x .328				
CE2-5/8	5/8		.480 x .360				
CE2-11/16	11/16		.542 x .406				
CE2-3/4	3/4		.590 x .442				
CE2-13/16	13/16		.652 x .489				
CE2-7/8	7/8		.697 x .523				
CE3-13/16	3	13/16	.652 x .489	1.89	2.18	2.75	
CE3-7/8		7/8	.697 x .523				
CE3-15/16		15/16	.760 x .570				
CE3-1		1	.800 x .600				
CE3-1-1/8		1-1/8	.896 x .672				
CE3-1-1/4		1-1/4	1.021 x .766				
CE3-1-3/8	1-3/8	1.108 x .831					
CE4-1	4	1	.800 x .600	2.36	2.47	3.54	
CE4-1-1/4		1-1/4	1.021 x .766				
CE4-1-1/2		1-1/2	1.233 x .925				
CE4-1-3/4		1-3/4	1.430 x 1.072				
CE4-1-1/8		1-1/8	.896 x .672				
CE4-1-3/8		1-3/8	1.108 x .831				
CE4-1-5/8		1-5/8	1.305 x .979				
CE4-1-7/8		1-7/8	1.519 x 1.139				

Bussole fisse senza frizione in pollici PIPE

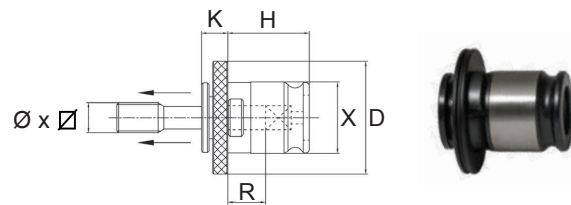
Quick change adaptors for tapping without safety clutch PIPE



CER INCH

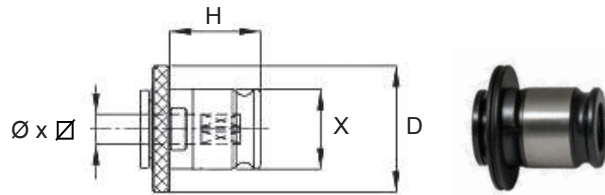
CODICE	TIPO	MASCHIO	Ø X Ø	X	H	D	EUR
CER2-1/4P	2	1/4P	.5625 x .4221	19	21.5	30	
CER2-3/8P		3/8P	.700 x .531				
CER2-1/2P		1/2P	.6875 x .515				
CER3-3/8P	3	3/8P	.700 x .531	19	21.5	30	
CER3-1/2P		1/2P	.6875 x .515				
CER3-3/4P		3/4P	.906 x .697				
CER3-1P		1P	1.125 x .843				
CER4-1-1/4P	4	1-1/4P	1.3125 x .984	19	21.5	30	
CER4-1-1/2P		1-1/2P	1.50 x 1.125				

Bussole fisse senza frizione con passaggio del refrigerante
 Quick change adaptors for tapping without safety clutch with coolant through


SEC DIN

CODICE	TIPO	CAP	Ø x ∅	X	H	D	K	R	EUR
SEC1-3.5 x 2.7	1	M3	3.5 x 2.7	19	21.5	30	7	10	
SEC1-4 x 3		M3.5	4 x 3						
SEC1-4.5 x 3.4		M4	4.5 x 3.4						
SEC1-6 x 4.9		M5 - 6 - 8	6 x 4.9						
SEC1-7 x 5.5		M10	7 x 5.5						
SEC1-8 x 6.2		M8	8 x 6.2						
SEC1-9 x 7		M12	9 x 7						
SEC1-10 x 8		M10	10 x 8						
SEC1-11 x 9		M14	11 x 9						
SEC2-6 x 4.9	2	M5 - 6 - 8	6 x 4.9	31	35	48	11	19	
SEC2-7 x 5.5		M10	7 x 5.5						
SEC2-8 x 6.2		M8	8 x 6.2						
SEC2-9 x 7		M12	9 x 7						
SEC2-10 x 8		M10	10 x 8						
SEC2-11 x 9		M14	11 x 9						
SEC2-12 x 9		M16	12 x 9						
SEC2-14 x 11		M18	14 x 11						
SEC2-16 x 12		M20	16 x 12						
SEC2-18 x 14.5		M22 - 24	18 x 14.5						
SEC3-11 x 9	3	M14	11 x 9	48	55.5	70	14	30	
SEC3-12 x 9		M16	12 x 9						
SEC3-14 x 11		M18	14 x 11						
SEC3-16 x 12		M20	16 x 12						
SEC3-18 x 14.5		M22 - 24	18 x 14.5						
SEC3-20 x 16		M27	20 x 16						
SEC3-22 x 18		M30	22 x 18						
SEC3-25 x 20		M33	25 x 20						
SEC3-28 x 22		M36	28 x 22						

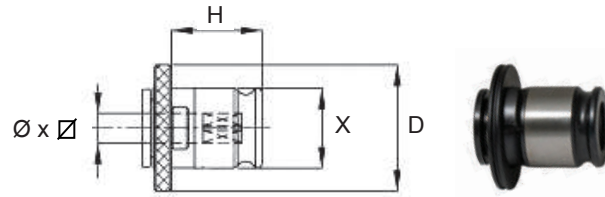
Bussole fisse senza frizione con passaggio del refrigerante in pollici
 Quick change adaptors for tapping without safety clutch with coolant through


CEC INCH

CODICE	TIPO	MASCHIO	Ø x Ø	X	H	D	EUR
CEC1-#6	1	#6	.141 x .110	0.75	0.85	1.18	
CEC1-#8		#8	.168 x .131				
CEC1-#10		#10	.194 x .152				
CEC1-#12		#12	.220 x .165				
CEC1-1/4		1/4	.255 x .191				
CEC1-5/16		5/16	.318 x .238				
CEC1-3/8		3/8	.381 x .286				
CEC1-7/16		7/16	.323 x .242				
CEC1-1/2		1/2	.367 x .275				
CEC1-9/16		9/16	.429 x .322				
CEC1-3/8SS		3/8SS	.275 x .206				
CEC1-1/8SS		1/8SS	.3125 x .234				
CEC1-1/8LS		1/8LS	.4375 x .328				
CEC2-1/4	2	1/4	.255 x .191	1.22	1.38	1.89	
CEC2-5/16		5/16	.318 x .238				
CEC2-3/8		3/8	.381 x .286				
CEC2-7/16		7/16	.323 x .242				
CEC2-1/2		1/2	.367 x .275				
CEC2-9/16		9/16	.429 x .322				
CEC2-3/8SS		3/8SS	.275 x .206				
CEC2-1/8SS		1/8SS	.3125 x .234				
CEC2-1/8LS		1/8LS	.4375 x .328				
CEC2-5/8		5/8	.480 x .360				
CEC2-11/16		11/16	.542 x .406				
CEC2-3/4		3/4	.590 x .442				
CEC2-13/16		13/16	.652 x .489				
CEC2-7/8		7/8	.697 x .523				
CEC3-13/16	3	13/16	.652 x .489	1.89	2.18	2.75	
CEC3-7/8		7/8	.697 x .523				
CEC3-15/16		15/16	.760 x .570				
CEC3-1		1	.800 x .600				
CEC3-1-1/8		1-1/8	.896 x .672				
CEC3-1-1/4		1-1/4	1.021 x .766				
CEC3-1-3/8		1-3/8	1.108 x .831				
CEC4-1	4	1	.800 x .600	2.36	2.47	3.54	
CEC4-1-1/4		1-1/4	1.021 x .766				
CEC4-1-1/2		1-1/2	1.233 x .925				
CEC4-1-3/4		1-3/4	1.430 x 1.072				
CEC4-1-1/8		1-1/8	.896 x .672				
CEC4-1-3/8		1-3/8	1.108 x .831				
CEC4-1-5/8		1-5/8	1.305 x .979				
CEC4-1-7/8		1-7/8	1.519 x 1.139				

Bussole fisse senza frizione con passaggio del refrigerante in pollici PIPE

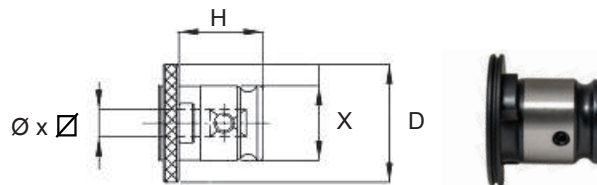
Quick change adaptors for tapping without safety clutch with coolant through PIPE


CERC INCH

CODICE	TIPO	MASCHIO	Ø X ∅	X	H	D	EUR
CERC2-1/4P	2	1/4P	.5625 x .4221	19	21.5	30	
CERC2-3/8P		3/8P	.700 x .531				
CERC2-1/2P		1/2P	.6875 x .515				
CERC3-3/8P	3	3/8P	.700 x .531	19	21.5	30	
CERC3-1/2P		1/2P	.6875 x .515				
CERC3-3/4P		3/4P	.906 x .697				
CERC3-1P		1P	1.125 x .843				
CERC4-1-1/4P	4	1-1/4P	1.3125 x .984	19	21.5	30	
CERC4-1-1/2P		1-1/2P	1.50 x 1.125				

Bussole fisse a fissaggio manuale

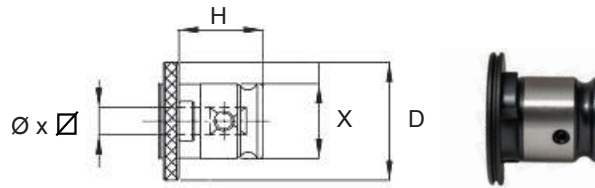
Quick change adaptors for tapping without clutch with manual fixing


SEK DIN

CODICE	TIPO	CAP	Ø X ∅	X	H	D	EUR
SEK1-12 x 9	1	M16	12 x 9	19	21.5	30	
SEK1-14 x 11		M18	14 x 11				
SEK2-20 x 16	2	M27	20 x 16	31	35	48	
SEK2-22 x 18		M30	22 x 18				
SEK3-32 x 24	3	M39 - 42	32 x 24	48	55.5	70	
SEK3 36 x 29		M45 - 48	36 x 29				
SEK4-40 x 32	4	M52	40 x 32	60	62.8	90	
SEK4-45 x 35		M56 - 60	45 x 35				

Bussole fisse a fissaggio manuale

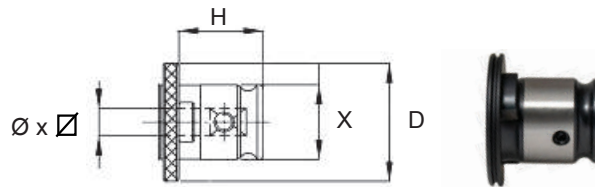
Quick change adaptors for tapping without clutch with manual fixing


SEK ISO

CODICE	TIPO	CAP	MASCHIO	X	H	D	EUR
SEK0-7.1 x 5.6	0	M7 - M10	7.1 x 5.6	13	19.5	22	
SEK0-8 x 6.3		M8 - M10	8 x 6.3				
SEK1-11.2 x 90	1	M14	11.2 x 9	19	21.5	30	
SEK1-14 x 11.2		M18 - M20	14 x 11.2				
SEK2-18 x 14	2	M24	18 x 14	31	35	48	
SEK2-20 x 16		M30	20 x 16				
SEK3-28 x 22.4	3	M39 - M42	28 x 22.4	48	55.5	70	
SEK3-31.5 x 25		M45 - M48	31.5 x 25				

Bussole fisse a fissaggio manuale

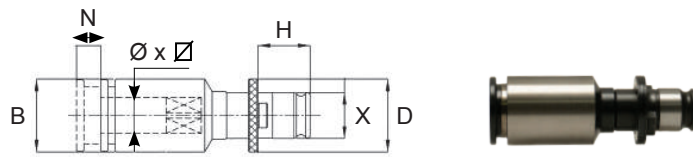
Quick change adaptors for tapping without clutch with manual fixing


CEK INCH

CODICE	TIPO	MASCHIO	Ø X ∅	X	H	D	EUR
CEK1-5/8	1	5/8	.480 x .360	0.75	0.85	1.18	
CEK1-11/16		11/16	.542 x .406				
CEK1-3/4		3/4	.590 x .442				
CEK2-15/16	2	15/16	.760 x .570	1.22	1.38	1.89	
CEK2-1		1	.800 x .600				
CEK2-1-1/8		1-1/8	.896 x .672				
CEK3-1-1/2	3	1-1/2	1.233 x .925	1.89	2.18	2.75	
CEK3-1-5/8		1-5/8	1.305 x .979				
CEK3-1-3/4		1-3/4	1.430 x 1.072				

Bussole allungabili a testa maggiorata

Quick change adaptors for tapping with bigger front part length adjustment

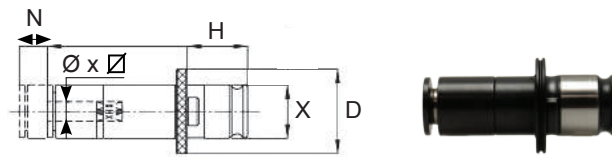


SENE DIN

CODICE	TIPO	CAP	Ø x ∇	X	H	D	N	B	EUR
SENE0-9 x 7	0	M12	9 x 7	13	19.5	22	8	19	
SENE0-10 x 8		M10	10 x 8						
SENE1-12 x 9	1	M16	12 x 9	19	21.5	30	10	30	
SENE1-14 x 11		M18	14 x 11						
SENE1-16 x 12		M20	16 x 12						
SENE1-18 x 14.5		M22 - 24	18 x 14.5						
SENE2-20 x 16	2	M27	20 x 16	31	35	48	15	48	
SENE2-22 x 18		M30	22 x 18						

Bussole allungabili

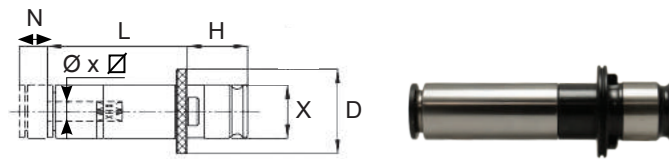
Quick change adaptors for tapping with length adjustment


SEN DIN

CODICE	TIPO	CAP	Ø x √	X	H	D	N	EUR
SEN0-2.5 x 2.1	0	M1 - 1.8	2.5 x 2.1	13	19.5	22	8	
SEN0-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1					
SEN0-3.5 x 2.7		M3	3.5 x 2.7					
SEN0-4 x 3		M3.5	4 x 3					
SEN0-4.5 x 3.4		M4	4.5 x 3.4					
SEN0-6 x 4.9		M5 - 6 - 8	6 x 4.9					
SEN0-7 x 5.5		M10	7 x 5.5					
SEN1-2.5 x 2.1	1	M1 - 1.8	2.5 x 2.1	19	21.5	30	10	
SEN1-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1					
SEN1-3.5 x 2.7		M3	3.5 x 2.7					
SEN1-4 x 3		M3.5	4 x 3					
SEN1-4.5 x 3.4		M4	4.5 x 3.4					
SEN1-6 x 4.9		M5 - 6 - 8	6 x 4.9					
SEN1-6.3 x 5		M6 - M8	6.3 x 5					
SEN1-7 x 5.5		M10	7 x 5.5					
SEN1-8 x 6.2		M8	8 x 6.2					
SEN1-9 x 7		M12	9 x 7					
SEN1-10 x 8		M10	10 x 8					
SEN1-11 x 9	M14	11 x 9						
SEN2-6 x 4.9	2	M5 - 6 - 8	6 x 4.9	31	35	48	15	
SEN2-7 x 5.5		M10	7 x 5.5					
SEN2-8 x 6.2		M8	8 x 6.2					
SEN2-9 x 7		M12	9 x 7					
SEN2-10 x 8		M10	10 x 8					
SEN2-11 x 9		M14	11 x 9					
SEN2-12 x 9		M16	12 x 9					
SEN2-14 x 11		M18	14 x 11					
SEN2-16 x 12		M20	16 x 12					
SEN2-18 x 14.5		M22 - 24	18 x 14.5					
SEN3-11 x 9	3	M14	11 x 9	48	55.5	70	25	
SEN3-12 x 9		M16	12 x 9					
SEN3-14 x 11		M18	14 x 11					
SEN3-16 x 12		M20	16 x 12					
SEN3-18 x 14.5		M22 - 24	18 x 14.5					
SEN3-20 x 16		M27	20 x 16					
SEN3-22 x 18		M30	22 x 18					
SEN3-25 x 20		M33	25 x 20					
SEN3-28 x 22	M36	28 x 22						
SEN4-20 x 16	4	M27	20 x 16	60	62.8	90	40	
SEN4-22 x 18		M30	22 x 18					
SEN4-25 x 20		M33	25 x 20					
SEN4-28 x 22		M36	28 x 22					
SEN4-32 x 24		M39 - 42	32 x 24					
SEN4-36 x 29		M45 - 48	36 x 29					

Bussole allungabili tipo prolungato

Quick change adaptors for tapping with length adjustment

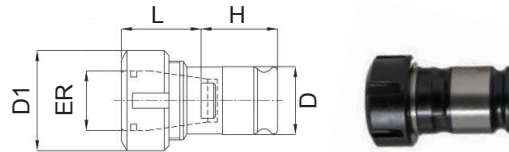

NV DIN

CODICE	TIPO	CAP	Ø x ∇	X	H	D	N	L	EUR
NV0-2.5 x 2.1	0	M1 - M1.8	2.5 x 2.1	13	19.5	22	8	40 ÷ 120	
NV0-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1						
NV0-3.5 x 2.7		M3	3.5 x 2.7						
NV0-4 x 3		M3.5	4 x 3						
NV0-4.5 x 3.4		M4	4.5 x 3.4						
NV0-6 x 4.9		M5 - 6 - 8	6 x 4.9						
NV0-7 x 5.5		M10	7 x 5.5						
NV1-3.5 x 2.7	1	M3	3.5 x 2.7	19	21.5	30	10	40 ÷ 140	
NV1-4 x 3		M3.5	4 x 3						
NV1-4.5 x 3.4		M4	4.5 x 3.4						
NV1-6 x 4.9		M5 - 6 - 8	6 x 4.9						
NV1-7 x 5.5		M10	7 x 5.5						
NV1-8 x 6.2		M8	8 x 6.2						
NV1-9 x 7		M12	9 x 7						
NV1-10 x 8	M10	10 x 8							
NV1-11 x 9	M14	11 x 9							
NV2-6 x 4.9	2	M5 - 6 - 8	6 x 4.9	31	35	48	15	70 ÷ 160	
NV2-7 x 5.5		M10	7 x 5.5						
NV2-8 x 6.2		M8	8 x 6.2						
NV2-9 x 7		M12	9 x 7						
NV2-10 x 8		M10	10 x 8						
NV2-11 x 9		M14	11 x 9						
NV2-12 x 9		M16	12 x 9						
NV2-14 x 11		M18	14 x 11						
NV2-16 x 12		M20	16 x 12						
NV2-18 x 14.5	M22 - 24	18 x 14.5							
NV3-11 x 9	3	M14	11 x 9	48	55.5	70	25	100 ÷ 180	
NV3-12 x 9		M16	12 x 9						
NV3-14 x 11		M18	14 x 11						
NV3-16 x 12		M20	16 x 12						
NV3-18 x 14.5		M22 - 24	18 x 14.5						
NV3-20 x 16		M27	20 x 16						
NV3-22 x 18		M30	22 x 18						
NV3-25 x 20	M33	25 x 20							
NV3-28 x 22	M36	28 x 22							

L = 40 - 50 - 60 - 70 - 80 - 90 - 100 - 110 - 120 - 130 - 140 - 150 - 160 - 170 - 180

Bussole portapinza

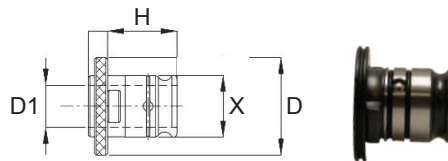
Positive drive ER collet adapters


SEP DIN

CODICE	TIPO	CAP	PINZE	CAP	D	D1	H	L	EUR
SEP1-ER16M	1	M3 ÷ M12	ER16	0.5 -10	19	22	21.5	26	
SEP1-ER16			ER16	0.5 -10		32		26	
SEP1-ER20			ER20	1 - 13		35		46	
SEP1-ER25			ER25	1 - 16		42		50	
SEP2-ER25M	2	M8 ÷ M20	ER25	1 - 16	31	35	35	30	
SEP2-ER25			ER25	1 - 16		42		30	
SEP2-ER32			ER32	2 - 20		50		54	
SEP2-ER40			ER40	3 - 26		63		65	

Bussole di riduzione

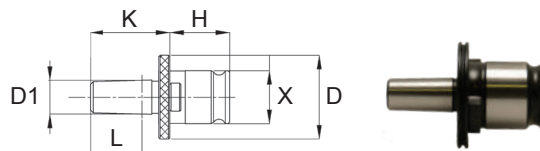
Tape collets reducers


SER DIN

CODICE	TIPO	X	D1	H	D	EUR
SER1/0	1	19	13	19.5	30	
SER2/0	2	31	13	35	48	
SER2/1	2		19			
SER3/1	3	48	19	55.5	70	
SER3/2	3		31			
SER4/2	4	60	31	62.8	90	
SER4/3	4		48			

Bussole fisse attacco DIN/238

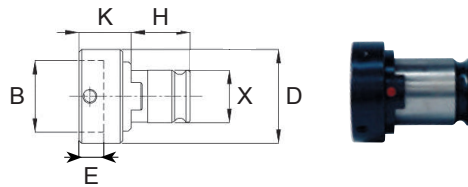
Rigid Adaptors


SEB DIN

CODICE	TIPO	CAP	B	D	H	X	K	D1	L	EUR
SE1-B12	1	M3 ÷ M12	B12	30	21.5	19	28.5	12.065	18.5	
SE1-B16			B16				35.5	15.733	24.0	
SE1-J1			J1				23.962	9.754	16.669	
SE1-J2			J2				29.518	14.199	22.225	
SE2-B12	2	M8 ÷ M20	B12	48	35	31	29.5	12.065	18.5	
SE2-B16			B16				36.5	15.733	24.0	
SE2-B18			B18				44.5	17.780	32.0	

Bussole portafiliera

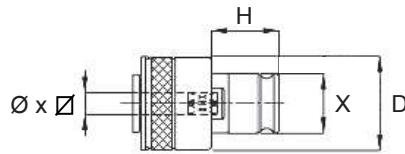
Die holder adaptor


SEF

CODICE	TIPO	METRICO	X	H	K	E	D	B	CAP MAX FILETTATURA	EUR
SEF1-16 x 5	1	M1 - M4	19	21.5	14	4.8	25	16	25	
SEF1-20 x 5		M3 - M4			14	4.8	30	20	25	
SEF1-20 x 7		M4.5 - M6			16	6.5	30	20	30	
SEF1-25 x 9		M7 - M9			19	8.5	35	25	30	
SEF1-30 x 11		M10 - M11			21	10	40	30	32	
SEF1-38 x 10		M12 x 1 - M15 x 1.5			20	9	48	38	30	
SEF1-38 x 14		M12 - M14			24	13	48	38	35	
SEF2-20 x 5	2	M3 - M4	31	35	20	4.8	40	20	40	
SEF2-20 x 7		M4.5 - M6			21.5	6.5	40	20	40	
SEF2-25 x 9		M7 - M9			23.5	8.5	40	25	45	
SEF2-30 x 11		M10 - M11			22	10	40	30	42	
SEF2-38 x 10		M12 x 1 - M15 x 1.5			21	9	48	38	42	
SEF2-38 x 14		M12 - M14			25	13	48	38	45	
SEF2-45 x 14		M16 x 1 - M20 x 2			25	13	57	45	45	
SEF2-45 x 18		M16 - M20			29	17	57	45	50	
SEF3-30 x 11	3	M10 - M11	48	55.5	30	10	60	30	67	
SEF3-38 x 10		M12 x 1 - M15 x 1.5			28	9	60	38	65	
SEF3-38 x 14		M12 - M14			32	13	60	38	68	
SEF3-45 x 14		M16 x 1 - M20 x 2			32	13	60	45	68	
SEF3-45 x 18		M16 - M20			36	17	60	45	73	
SEF3-55 x 16		M22 x 0.75 - M24 x 2			30	15	72	55	67	
SEF3-55 x 22		M22 - M24			35	20	72	55	70	
SEF3-65 x 18		M25 x 1.5 - M36 x 2			32	17	82	65	68	
SEF3-65 x 25		M25 - M36x4			38	23	82	65	75	

Bussole con frizione

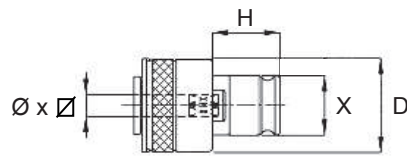
Quick change adaptors for tapping with safety clutch


SES DIN

CODICE	TIPO	CAP	Ø X ∇	X	H	D	EUR
SES0-2.5 x 2.1	0	M1 - 1.8	2.5 x 2.1	13	19.5	24	
SES0-2.8 x 2.1		M2 - 2.2 - 2.5	2.8 x 2.1				
SES0-3.5 x 2.7		M3 - 5	3.5 x 2.7				
SES0-4 x 3		M3.5	4 x 3				
SES0-4.5 x 3.4		M4 - 6	4.5 x 3.4				
SES0-6 x 4.9		M5 - 6 - 8	6 x 4.9				
SES0-7 x 5.5		M10	7 x 5.5				
SES0-8 x 6.2		M8 - M10	8 x 6.2				
SES1-2.5 x 2.1	1	M1 - 1.8	2.5 x 2.1	19	21.5	32.5	
SES1-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1				
SES1-3.5 x 2.7		M3	3.5 x 2.7				
SES1-4 x 3		M3.5	4 x 3				
SES1-4.5 x 3.4		M4	4.5 x 3.4				
SES1-6 x 4.9		M5 - 6 - 8	6 x 4.9				
SES1-7 x 5.5		M10	7 x 5.5				
SES1-8 x 6.2		M8	8 x 6.2				
SES1-9 x 7		M12	9 x 7				
SES1-10 x 8		M10	10 x 8				
SES1-11 x 9		M14	11 x 9				
SES2-3.5 x 2.7	2	M3	3.5 x 2.7	31	35	50.5	
SES2-4 x 3		M3.5	4 x 3				
SES2-4.5 x 3.4		M4	4.5 x 3.4				
SES2-6 x 4.9		M5 - 6 - 8	6 x 4.9				
SES2-7 x 5.5		M10	7 x 5.5				
SES2-8 x 6.2		M8	8 x 6.2				
SES2-9 x 7		M12	9 x 7				
SES2-10 x 8		M10	10 x 8				
SES2-11 x 9		M14	11 x 9				
SES2-12 x 9		M16	12 x 9				
SES2-14 x 11		M18	14 x 11				
SES2-16 x 12		M20	16 x 12				
SES2-18 x 14.5		M22 - 24	18 x 14.5				
SES3-9 x 7		3	M12				9 x 7
SES3-10 x 8	M10		10 x 8				
SES3-11 x 9	M14		11 x 9				
SES3-12 x 9	M16		12 x 9				
SES3-14 x 11	M18		14 x 11				
SES3-16 x 12	M20		16 x 12				
SES3-18 x 14.5	M22 - 24		18 x 14.5				
SES3-20 x 16	M27		20 x 16				
SES3-22 x 18	M30		22 x 18				
SES3-25 x 20	M33		25 x 20				
SES3-28 x 22	M36	28 x 22					
SES4-16 x 12	4	M20	16 x 12	60	62.8	95	
SES4-18 x 14.5		M22 - 24	18 x 14.5				
SES4-20 x 16		M27	20 x 16				
SES4-22 x 18		M30	22 x 18				
SES4-25 x 20		M33	25 x 20				
SES4-28 x 22		M36	28 x 22				
SES4-32 x 24		M39 - 42	32 x 24				
SES4-36 x 29		M45 - 48	36 x 29				

Bussole con frizione

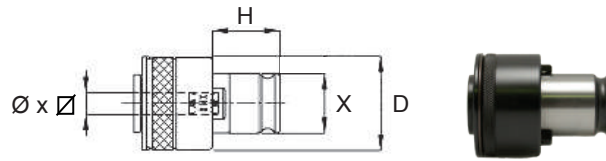
Quick change adaptors for tapping with safety clutch


SES ISO

CODICE	TIPO	CAP	Ø x ∅	X	H	D	EUR
SES0-2.24 x 1.8	0	M3	2.24 x 1.8	13	19.5	24	
SES0-2.5 x 2		M2 - M3.5	2.5 x 2				
SES0-2.8 x 2.24		M2.2 - M2.5	2.8 x 2.24				
SES0-3.15 x 2.5		M3 - M4	3.15 x 2.5				
SES0-3.55 x 2.8		M3.5 - M4.5	3.55 x 2.8				
SES0-4 x 3.15		M4 - M5	4 x 3.15				
SES0-4.5 x 3.55		M4.5 - M4.6	4.5 x 3.55				
SES0-5 x 4		M5	5 x 4				
SES0-5.6 x 4.5		M7	5.6 x 4.5				
SES0-6.3 x 5		M6 - M8	6.3 x 5				
SES0-7.1 x 5.6		M7 - M10	7.1 x 5.6				
SES0-8 x 6.3		M8 - M10	8 x 6.3				
SES1-2.24 x 1.8	1	M3	2.24 x 1.8	19	21.5	32.5	
SES1-2.5 x 2		M2 - M3.5	2.5 x 2				
SES1-2.8 x 2.24		M2.2 - M2.5	2.8 x 2.24				
SES1-3.15 x 2.5		M3 - M4	3.15 x 2.5				
SES1-3.55 x 2.8		M3.5 - M4.5	3.55 x 2.8				
SES1-4 x 3.15		M4 - M5	4 x 3.15				
SES1-4.5 x 3.55		M4.5 - M4.6	4.5 x 3.55				
SES1-5 x 4		M5	5 x 4				
SES1-5.6 x 4.5		M7	5.6 x 4.5				
SES1-6.3 x 5		M6 - M8	6.3 x 5				
SES1-7.1 x 5.6		M7 - M10	7.1 x 5.6				
SES1-8 x 6.3		M8 - M10	8 x 6.3				
SES1-9 x 7.1		M9 - M12	9 x 7.1				
SES1-10 x 8		M10	10 x 8				
SES1-11.2 x 9	M14	11.2 x 9					
SES2-6.3 x 5	2	M6 - M8	6.3 x 5	31	35	50.5	
SES2-7.1 x 5.6		M7 - M10	7.1 x 5.6				
SES2-8 x 6.3		M8 - M10	8 x 6.3				
SES2-9 x 7.1		M9 - M12	9 x 7.1				
SES2-10 x 8		M10	10 x 8				
SES2-11.2 x 9		M14	11.2 x 9				
SES2-12.5 x 10		M16	12.5 x 10				
SES2-14 x 11.2		M18 - M20	14 x 11.2				
SES2-16 x 12.5		M22	16 x 12.5				
SES2-18 x 14		M24	18 x 14				

Bussole con frizione

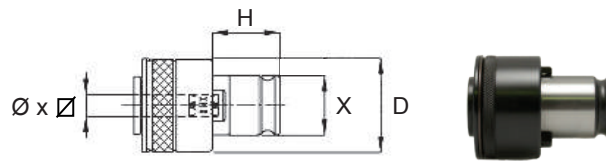
Quick change adaptors for tapping with safety clutch


SES ISO

CODICE	TIPO	CAP	Ø X ɸ	D	H	X	EUR
SES3-11.2 x 9	3	M14	11.2 x 9	13	19.5	24	
SES3-12.5 x 10		M16	12.5 x 10				
SES3-14 x 11.2		M18 - M20	14 x 11.2				
SES3-16 x 12.5		M22	16 x 12.5				
SES3-18 x 14		M24	18 x 14				
SES3-20 x 16		M30	20 x 16				
SES3-22.4 x 18		M33	22.4 x 18				
SES3-25 x 20		M33 - M36	25 x 20				
SES3-28 x 22.4		M39 - M42	28 x 22.4				
SES4-16 x 12.5	4	M22	16 x 12.5	60	62.8	95	
SES4-18 x 14		M24	18 x 14				
SES4-20 x 16		M30	20 x 16				
SES4-22.4 x 18		M33	22.4 x 18				
SES4-25 x 20		M33 - M36	25 x 20				
SES4-28 x 22.4		M39 - M42	28 x 22.4				
SES4-31.5 x 25		M45 - M48	31.5 x 25				

Bussole con frizione

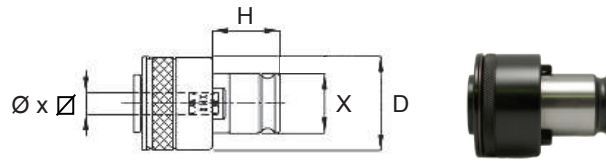
Quick change adaptors for tapping with safety clutch


SES JIS

CODICE	TIPO	CAP	Ø x ∅	X	H	D	EUR
SES0-3 x 2.5	0	M2	3 x 2.5	13	19.5	24	
SES0-4 x 3.2		M3	4 x 3.2				
SES0-5.5 x 4.5		M5	5.5 x 4.5				
SES0-6 x 4.5		M6	6 x 4.5				
SES0-6.2 x 5		M8	6.2 x 5				
SES1-3 x 2.5	1	M2	3 x 2.5	19	21.5	32.5	
SES1-4 x 3.2		M3	4 x 3.2				
SES1-5.5 x 4.5		M5	5.5 x 4.5				
SES1-6 x 4.5		M6	6 x 4.5				
SES1-6.2 x 5		M8	6.2 x 5				
SES1-7 x 5.5		M9	7 x 5.5				
SES1-8 x 6		M8	8 x 6				
SES1-8.5 x 6.5		M12	8.5 x 6.5				
SES1-9.5 x 7		M13	9.5 x 7				
SES1-10.5 x 8		M14	10.5 x 8				
SES2-6 x 4.5	2	M6	6 x 4.5	31	35	50.5	
SES2-6.2 x 5		M8	6.2 x 5				
SES2-7 x 5.5		M9	7 x 5.5				
SES2-8 x 6		M8	8 x 6				
SES2-8.5 x 6.5		M12	8.5 x 6.5				
SES2-9.5 x 7		M13	9.5 x 7				
SES2-10.5 x 8		M14	10.5 x 8				
SES2-12.5 x 10		M16	12.5 x 10				
SES2-13 x 10		M17	13 x 10				
SES2-14 x 11		M18	14 x 11				
SES2-15 x 12		M20	15 x 12				
SES2-17 x 13		M22	17 x 13				
SES3-10.5 x 8	3	M14	10.5 x 8	48	55.5	72	
SES3-12.5 x 10		M16	12.5 x 10				
SES3-13 x 10		M17	13 x 10				
SES3-14 x 11		M18	14 x 11				
SES3-15 x 12		M20	15 x 12				
SES3-17 x 13		M22	17 x 13				
SES3-19 x 15		M24	19 x 15				
SES3-20 x 15		M27	20 x 15				
SES3-21 x 17		M28	21 x 17				
SES3-23 x 17		M30	23 x 17				
SES3-24 x 19		M32	24 x 19				
SES3-25 x 19		M33	25 x 19				
SES3-26 x 21		M34	26 x 21				
SES3-28 x 21		M36	28 x 21				

Bussole con frizione in pollici

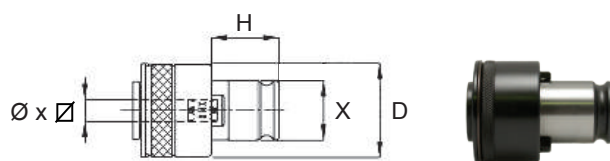
Quick change adaptors for tapping with safety clutch


CES INCH

CODICE	TIPO	MASCHIO	Ø x ∅	X	H	D	EUR
CES1-#6	1	#6	.141 x .110	0.75	0.85	1.28	
CES1-#8		#8	.168 x .131				
CES1-#10		#10	.194 x .152				
CES1-#12		#12	.220 x .165				
CES1-1/4		1/4	.255 x .191				
CES1-5/16		5/16	.318 x .238				
CES1-3/8		3/8	.381 x .286				
CES1-7/16		7/16	.323 x .242				
CES1-1/2		1/2	.367 x .275				
CES1-9/16		9/16	.429 x .322				
CES1-3/8SS		3/8SS	.275 x .206				
CES1-1/8SS		1/8SS	.3125 x .234				
CES1-1/8LS		1/8LS	.4375 x .328				
CES2-1/4		2	1/4				.255 x .191
CES2-5/16	5/16		.318 x .238				
CES2-3/8	3/8		.381 x .286				
CES2-7/16	7/16		.323 x .242				
CES2-1/2	1/2		.367 x .275				
CES2-9/16	9/16		.429 x .322				
CES2-3/8SS	3/8SS		.275 x .206				
CES2-1/8SS	1/8SS		.3125 x .234				
CES2-1/8LS	1/8LS		.4375 x .328				
CES2-5/8	5/8		.480 x .360				
CES2-11/16	11/16		.542 x .406				
CES2-3/4	3/4		.590 x .442				
CES2-13/16	13/16		.652 x .489				
CES2-7/8	7/8		.697 x .523				
CES3-13/16	3	13/16	.652 x .489	1.89	2.18	2.83	
CES3-7/8		7/8	.697 x .523				
CES3-15/16		15/16	.760 x .570				
CES3-1		1	.800 x .600				
CES3-1-1/8		1-1/8	.896 x .672				
CES3-1-1/4		1-1/4	1.021 x .766				
CES3-1-3/8	1-3/8	1.108 x .831					
CES4-1	4	1	.800 x .600	2.36	2.47	3.54	
CES4-1-1/4		1-1/4	1.021 x .766				
CES4-1-1/2		1-1/2	1.233 x .925				
CES4-1-3/4		1-3/4	1.430 x 1.072				
CES4-1-1/8		1-1/8	.896 x .672				
CES4-1-3/8		1-3/8	1.108 x .831				
CES4-1-5/8		1-5/8	1.305 x 1.979				
CES4-1-7/8		1-7/8	1.519 x 1.139				

Bussole con frizione in pollici PIPE

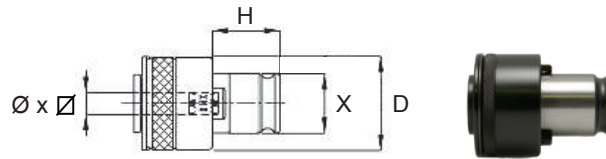
Quick change adaptors for tapping with safety clutch PIPE


CESR INCH

CODICE	TIPO	MASCHIO	Ø x ∅	X	H	D	EUR
CESR2-1/4P	2	1/4P	.5625 x .421	1.22	1.38	1.99	
CESR2-3/8P		3/8P	.700 x .531				
CESR2-1/2P		1/2P	.6875 x .515				
CESR3-3/8P	3	3/8P	.700 x .531	1.89	2.18	2.83	
CESR3-1/2P		1/2P	.6875 x .515				
CESR3-3/4P		3/4P	.906 x .697				
CESR3-1P		1P	1.125 x .843				
CESR4-1-1/4P	4	1-1/4P	1.3125 x 1.984	2.36	2.47	3.54	
CESR4-1-1/2P		1-1/2P	1.50 x 1.125				

Bussole con frizione con passaggio del refrigerante

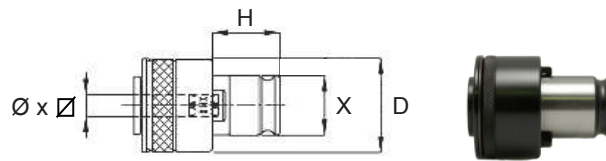
Quick change adaptors for tapping with safety clutch and with coolant through


SESC DIN

CODICE	TIPO	CAP	Ø x ∅	X	H	D	K	R	EUR
SESC1-3.5 x 2.7	1	M3 - 4	3.5 x 2.7	19	21.5	32.5	25	17	
SESC1-4 x 3		M3.5	4 x 3						
SESC1-4.5 x 3.4		M4 - 6	4.5 x 3.4						
SESC1-6 x 4.9		M5 - 6 - 8	6 x 4.9						
SESC1-7 x 5.5		M10	7 x 5.5						
SESC1-8 x 6.2		M8 - 10	8 x 6.2						
SESC1-9 x 7		M12	9 x 7						
SESC1-10 x 8		M10	10 x 8						
SESC1-11 x 9		M14	11 x 9						
SESC2-6 x 4.9	2	M5 - 6 - 8	6 x 4.9	31	35	50.5	34	30	
SESC2-7 x 5.5		M10	7 x 5.5						
SESC2-8 x 6.2		M8 - 10	8 x 6.2						
SESC2-9 x 7		M12	9 x 7						
SESC2-10 x 8		M10	10 x 8						
SESC2-11 x 9		M14	11 x 9						
SESC2-12 x 9		M16	12 x 9						
SESC2-14 x 11		M18	14 x 11						
SESC2-16 x 12		M20	16 x 12						
SESC2-18 x 14.5		M22 - 24	18 x 14.5						
SESC3-11 x 9	3	M14	11 x 9	48	55.5	72	45	44	
SESC3-12 x 9		M16	12 x 9						
SESC3-14 x 11		M18	14 x 11						
SESC3-16 x 12		M20	16 x 12						
SESC3-18 x 14.5		M22 - 24	18 x 14.5						
SESC3-20 x 16		M27 - M30	20 x 16						
SESC3-22 x 18		M30	22 x 18						
SESC3-25 x 20		M33 - M36	25 x 20						
SESC3-28 x 22	M36	28 x 22							

Bussole con frizione con passaggio del refrigerante in pollici

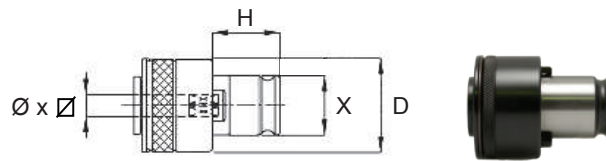
Quick change adaptors for tapping with safety clutch and with coolant through


CESC INCH

CODICE	TIPO	MASCHIO	Ø x ∅	X	H	D	EUR
CESC1-#6	1	#6	.141 x .110	0.75	0.85	1.28	
CESC1-#8		#8	.168 x .131				
CESC1-#10		#10	.194 x .152				
CESC1-#12		#12	.220 x .165				
CESC1-1/4		1/4	.255 x .191				
CESC1-5/16		5/16	.318 x .238				
CESC1-3/8		3/8	.381 x .286				
CESC1-7/16		7/16	.323 x .242				
CESC1-1/2		1/2	.367 x .275				
CESC1-9/16		9/16	.429 x .322				
CESC1-3/8SS		3/8SS	.275 x .206				
CESC1-1/8SS		1/8SS	.3125 x .234				
CESC1-1/8LS		1/8LS	.4375 x .328				
CESC2-1/4		2	1/4				.255 x .191
CESC2-5/16	5/16		.318 x .238				
CESC2-3/8	3/8		.381 x .286				
CESC2-7/16	7/16		.323 x .242				
CESC2-1/2	1/2		.367 x .275				
CESC2-9/16	9/16		.429 x .322				
CESC2-3/8SS	3/8SS		.275 x .206				
CESC2-1/8SS	1/8SS		.3125 x .234				
CESC2-1/8LS	1/8LS		.4375 x .328				
CESC2-5/8	5/8		.480 x .360				
CESC2-11/16	11/16		.542 x .406				
CESC2-3/4	3/4		.590 x .442				
CESC2-13/16	13/16		.652 x .489				
CESC2-7/8	7/8		.697 x .523				
CESC3-13/16	3		13/16	.652 x .489	1.89	2.18	2.83
CESC3-7/8		7/8	.697 x .523				
CESC3-15/16		15/16	.760 x .570				
CESC3-1		1	.800 x .600				
CESC3-1-1/8		1-1/8	.896 x .672				
CESC3-1-1/4		1-1/4	1.021 x .766				
CESC3-1-3/8		1-3/8	1.108 x .831				
CESC4-1	4	1	.800 x .600	2.36	2.47	3.54	
CESC4-1-1/4		1-1/4	1.021 x .766				
CESC4-1-1/2		1-1/2	1.233 x .925				
CESC4-1-3/4		1-3/4	1.430 x 1.072				
CESC4-1-1/8		1-1/8	.896 x .672				
CESC4-1-3/8		1-3/8	1.108 x .831				
CESC4-1-5/8		1-5/8	1.305 x 1.979				
CESC4-1-7/8		1-7/8	1.519 x 1.139				

Bussole con frizione con passaggio del refrigerante in pollici PIPE

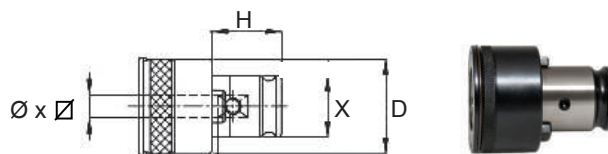
Quick change adaptors for tapping with safety clutch and with coolant through PIPE


CESRC INCH

CODICE	TIPO	MASCHIO	Ø x ¼	X	H	D	EUR
CESRC2-1/4P	2	1/4P	.5625 x .421	1.22	1.38	1.99	
CESRC2-3/8P		3/8P	.700 x .531				
CESRC2-1/2P		1/2P	.6875 x .515				
CESRC3-3/8P	3	3/8P	.700 x .531	1.89	2.18	2.83	
CESRC3-1/2P		1/2P	.6875 x .515				
CESRC3-3/4P		3/4P	.906 x .697				
CESRC3-1P		1P	1.125 x .843				
CESRC4-1-1/4P	4	1-1/4P	1.3125 x 1.984	2.36	2.47	3.54	
CESRC4-1-1/2P		1-1/2P	1.50 x 1.125				

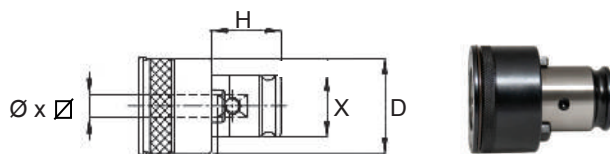
Bussole con frizione a fissaggio manuale

Quick change adaptors for tapping with clutch with manual fixing


SESK DIN

CODICE	TIPO	CAP	Ø x ¼	X	H	D	EUR
SESK1-12 x 9	1	M16	12 x 9	19	21.5	32.5	
SESK1-14 x 11		M18	14 x 11				
SESK2-20 x 16	2	M27	20 x 16	31	35	50.5	
SESK2-22 x 18		M30	22 x 18				
SESK3-32 x 24	3	M39 - 42	32 x 24	48	55.5	72	
SESK3-36 x 29		M45 - 48	36 x 29				
SESK4-40 x 32	4	M52	40 x 32	60	62.8	95	
SESK4-45 x 35		M56 - 60	45 x 35				

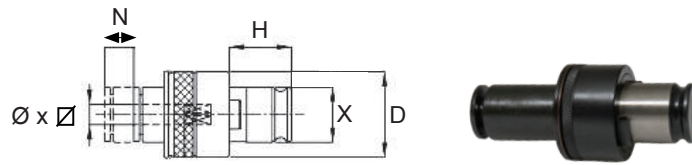
Bussole con frizione a fissaggio manuale
 Quick change adaptors for tapping with safety clutch


SESK ISO

CODICE	TIPO	CAP	Ø x ∅	X	H	D	EUR
SESK1-11.2 x 9	1	M14	11.2 x 9	19	21.5	32.5	
SESK1-12.5 x 10		M16	12.5 x 10				
SESK1-14 x 11.2		M18 - M20	14 x 11.2				
SESK2-18 x 14	2	M24	18 x 14	31	35	50.5	
SESK2-20 x 16		M30	20 x 16				
SESK3-28 x 22.4	3	M39 - M42	28 x 22.4	48	55.5	72	
SESK3-31.5 x 25		M45 - M48	31.5 x 25				

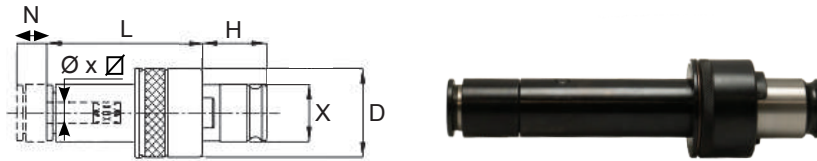
Bussole con frizione allungabili

Quick change adaptors for tapping with length adjustment


SESN DIN

CODICE	TIPO	CAP	Ø x ∅	X	H	D	N	EUR
SESN0-2.5 x 2.1	0	M1 - 1.8	2.5 x 2.1	13	19.5	24	8	
SESN0-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1					
SESN0-3.5 x 2.7		M3	3.5 x 2.7					
SESN0-4 x 3		M3.5	4 x 3					
SESN0-4.5 x 3.4		M4	4.5 x 3.4					
SESN0-6 x 4.9		M5 - 6 - 8	6 x 4.9					
SESN0-7 x 5.5		M10	7 x 5.5					
SESN1-2.5 x 2.1	1	M1 - 1.8	2.5 x 2.1	19	21.5	32.5	10	
SESN1-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1					
SESN1-3.5 x 2.7		M3	3.5 x 2.7					
SESN1-4 x 3		M3.5	4 x 3					
SESN1-4.5 x 3.4		M4	4.5 x 3.4					
SESN1-6 x 4.9		M5 - 6 - 8	6 x 4.9					
SESN1-7 x 5.5		M10	7 x 5.5					
SESN1-8 x 6.2		M8	8 x 6.2					
SESN1-9 x 7		M12	9 x 7					
SESN1-10 x 8		M10	10 x 8					
SESN1-11 x 9		M14	11 x 9					
SESN2-6 x 4.9	2	M5 - 6 - 8	6 x 4.9	31	35	50.5	15	
SESN2-7 x 5.5		M10	7 x 5.5					
SESN2-8 x 6.2		M8	8 x 6.2					
SESN2-9 x 7		M12	9 x 7					
SESN2-10 x 8		M10	10 x 8					
SESN2-11 x 9		M14	11 x 9					
SESN2-12 x 9		M16	12 x 9					
SESN2-14 x 11		M18	14 x 11					
SESN2-16 x 12		M20	16 x 12					
SESN2-18 x 14.5		M22 - 24	18 x 14.5					
SESN3-8 x 6.2	3	M8	8 x 6.2	48	55.5	72	25	
SESN3-9 x 7		M12	9 x 7					
SESN3-10 x 8		M10	10 x 8					
SESN3-11 x 9		M14	11 x 9					
SESN3-12 x 9		M16	12 x 9					
SESN3-14 x 11		M18	14 x 11					
SESN3-16 x 12		M20	16 x 12					
SESN3-18 x 14.5		M22 - 24	18 x 14.5					
SESN3-20 x 16		M27	20 x 16					
SESN3-22 x 18		M30	22 x 18					
SESN3-25 x 20		M33	25 x 20					
SESN3-28 x 22	M36	28 x 22						
SESN4-16 x 12	4	M20	16 x 12	60	62.8	95	40	
SESN4-18 x 14.5		M22 - 24	18 x 14.5					
SESN4-20 x 16		M27	20 x 16					
SESN4-22 x 18		M30	22 x 18					
SESN4-25 x 20		M33	25 x 20					
SESN4-28 x 22		M36	28 x 22					
SESN4-32 x 24		M39 - 42	32 x 24					
SESN4-36 x 29		M45 - 48	36 x 29					

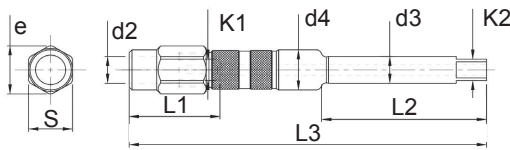
Bussole con frizione allungabili tipo prolungato
Quick change adaptors for tapping with length adjustment



SNV DIN

CODICE	TIPO	CAP	Ø x ∇	X	H	D	N	L	EUR
SNV0-2.5 x 2.1	0	M1 - 1.8	2.5 x 2.1	13	19.5	24	8	40 ÷ 120	
SNV0-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1						
SNV0-3.5 x 2.7		M3	3.5 x 2.7						
SNV0-4 x 3		M3.5	4 x 3						
SNV0-4.5 x 3.4		M4	4.5 x 3.4						
SNV0-6 x 4.9		M5 - 6 - 8	6 x 4.9						
SNV0-7 x 5.5		M10	7 x 5.5						
SNV1-2.5 x 2.1	1	M1 - 1.8	2.5 x 2.1	19	21.5	32.5	10	40 ÷ 140	
SNV1-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1						
SNV1-3.5 x 2.7		M3	3.5 x 2.7						
SNV1-4 x 3		M3.5	4 x 3						
SNV1-4.5 x 3.4		M4	4.5 x 3.4						
SNV1-6 x 4.9		M5 - 6 - 8	6 x 4.9						
SNV1-7 x 5.5		M10	7 x 5.5						
SNV1-8 x 6.2		M8	8 x 6.2						
SNV1-9 x 7		M12	9 x 7						
SNV1-10 x 8		M10	10 x 8						
SNV1-11 x 9		M14	11 x 9						
SNV2-6 x 4.9	2	M5 - 6 - 8	6 x 4.9	31	35	50.5	15	70 ÷ 160	
SNV2-7 x 5.5		M10	7 x 5.5						
SNV2-8 x 6.2		M8	8 x 6.2						
SNV2-9 x 7		M12	9 x 7						
SNV2-10 x 8		M10	10 x 8						
SNV2-11x 9		M14	11 x 9						
SNV2-12 x 9		M16	12 x 9						
SNV2-14 x 11		M18	14 x 11						
SNV2-16 x 12		M20	16 x 12						
SNV2-18 x 14.5		M22 - 24	18 x 14.5						
SNV3-8 x 6.2	3	M8	8 x 6.2	48	55.5	72	25	100 ÷ 180	
SNV3-9 x 7		M12	9 x 7						
SNV3-10 x 8		M10	10 x 8						
SNV3-11 x 9		M14	11 x 9						
SNV3-12 x 9		M16	12 x 9						
SNV3-14 x 11		M18	14 x 11						
SNV3-16 x 12		M20	16 x 12						
SNV3-18 x 14.5		M22-24	18 x 14.5						
SNV3-20 x 16		M27	20 x 16						
SNV3-22 x 18		M30	22 x 18						
SNV3-25 x 20		M33	25 x 20						
SNV3-28 x 22	M36	28 x 22							

L = 40 - 50 - 60 - 70 - 80 - 90 - 100 - 110 - 120 - 130 - 140 - 150 - 160 - 170 - 180

Prolunghe con passaggio del refrigerante
 Tap extensions coolant through

ABV

CODICE	DIN 371	DIN 374/376	d2	K1	L1	d3	K2	d4	e	S	L2	L3	EUR
ABV1x28x21x130	M2	M4	2.8	2.1	21	6	4.9	6.1	6.5	6	60	130	
ABV1x28x21x230			2.8	2.1	21	6	4.9	6.1	6.5	6	70	230	
ABV2x35x27x130	M3	M4.5 M5	3.5	2.7	24	6	4.9	8	9	8	60	130	
ABV2x35x27x230			3.5	2.7	24	6	4.9	8	9	8	60	230	
ABV3x45x34x130	M4	M6	4.5	3.4	24	6	4.9	8	10	9	60	130	
ABV3x45x34x230			4.5	3.4	24	6	4.9	8	10	9	60	230	
ABV4x60x49x130	M4.5 M6	M8	6	4.9	28	7	5.5	12	15	13	60	130	
ABV4x60x49x230			6	4.9	28	7	5.5	12	15	13	60	230	
ABV5x70x55x130	M7	M9 M10	7	5.5	28	7	5.5	12	15	13	60	130	
ABV5x70x55x230			7	5.5	28	7	5.5	12	15	13	60	230	
ABV6x80x62x130	M8	M11	8	6.2	30	8	6.2	13	16	14	60	130	
ABV6x80x62x230			8	6.2	30	8	6.2	13	16	14	80	230	
ABV7x90x70x130	M9	M12	9	7	31	9	7	15	18	16	60	130	
ABV7x90x70x230			9	7	31	9	7	15	18	16	80	230	
ABV8x100x80x130	M10		10	8	33	10	8	15	18	16	60	130	
ABV8x100x80x230			10	8	33	10	8	15	18	16	80	230	
ABV9x110x90x130		M14	11	9	36	11	9	18	21	19	90	130	
ABV9x110x90x230			11	9	36	11	9	18	21	19	90	230	
ABV10x120x90x130		M16	12	9	36	12	9	19	21	19	90	130	
ABV10x120x90x230			12	9	36	12	9	19	21	19	90	230	
ABV11x140x110x200		M18	14	11	46	14	11	22	26	23	100	200	
ABV11x140x110x330			14	11	46	14	11	22	26	23	100	330	
ABV12x160x120x200		M20	16	12	46	16	12	22	26	23	100	200	
ABV12x160x120x330			16	12	46	16	12	22	26	23	100	330	
ABV13x180x145x200		M22 M24	18	14.5	47	18	14.5	26	31	27	100	200	
ABV13x180x145x330			18	14.5	47	18	14.5	26	31	27	100	330	
ABV14x200x160x200		M27	20	16	52	20	16	28	34	30	100	200	
ABV14x200x160x330			20	16	52	20	16	28	34	30	100	330	

ISTRUZIONI PER TARATURA BUSSOLE CON FRIZIONE

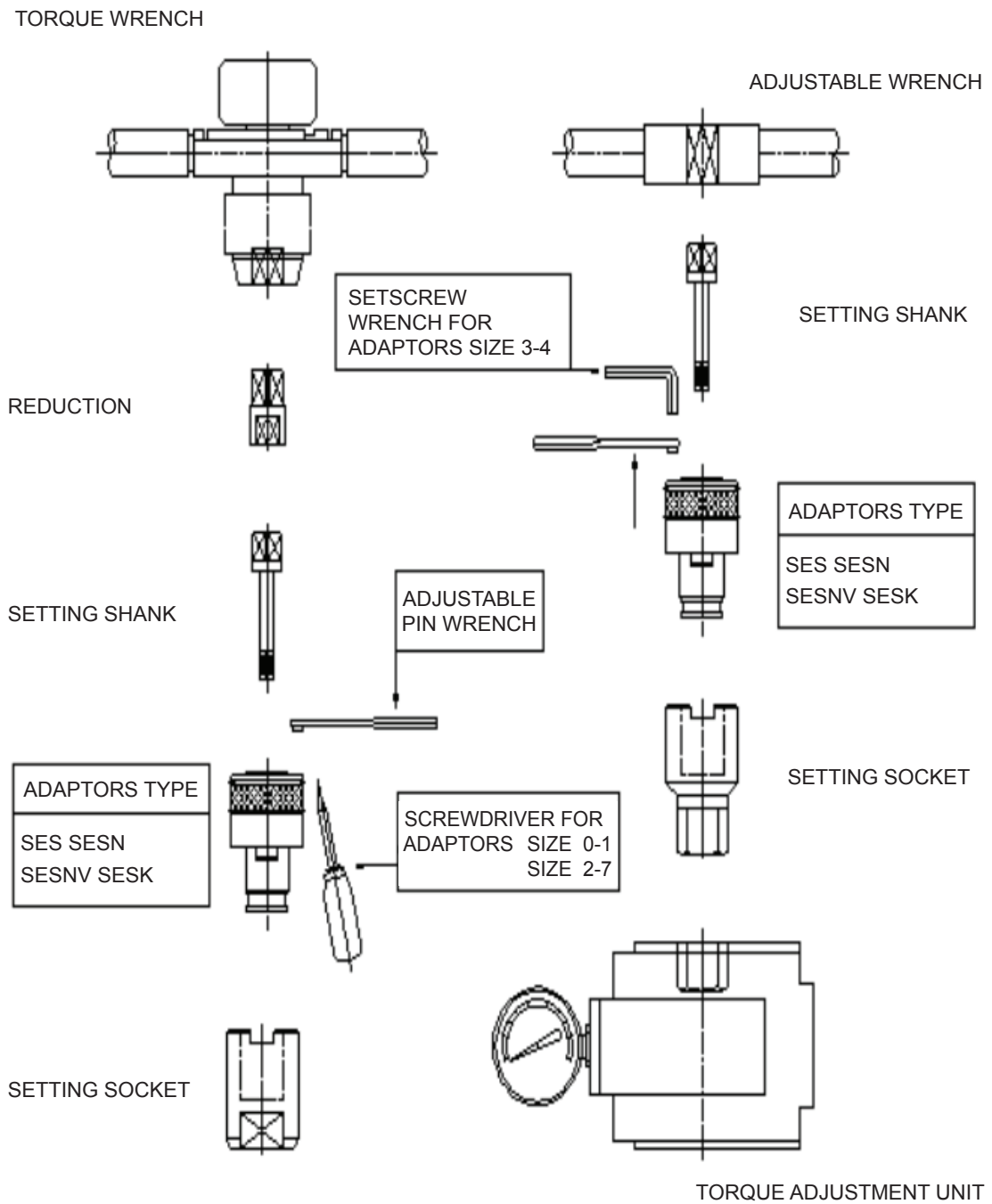


Tabella delle dimensioni DIN
 Tap shank dimensions to DIN

Nm	Ø x ▽	DIN 352z	DIN 353	DIN 371	DIN 374	DIN 376	DIN 2182	DIN 2183
0.1	2.5x2.1	M1		M1		M3.5	1/16"	
0.1		M1.1		M1.1	M3.5			
0.1		M1.2		M1.2				
0.15		M1.4		M1.4				
0.2		M1.6		M1.6				
0.25		M1.8		M1.8				
0.3	2.8x2.1	M2		M2	M4	M4	3/32"	5/32"
0.3		M2.2		M2.2				
0.4		M2.5		M2.5				
0.5	3.5x2.7	M3		M3	M5	M5	1/8"	
0.8	4x3	M3.5		M3.5				
1.6	4.5x3.4	M4		M4	M6	M6	5/32"	1/4"
2.5	6x4.9	M5		M5			7/32"	
5		M6		M6				
10		M8			M8	M8		
18	7x5.5	M10	G 1/8"		M10	M10	1/4"	3/8"
10	8x6.2			M8			5/16"	7/16"
28	9x7	M12			M12	M12	3/8"	1/2"
18	10x8			M10				
45	11x9	M14	G 1/4"		M14	M14		9/16"
50	12x9	M16	G 3/8"		M16	M16		5/8"
80	14x11	M18			M18	M18		11/16"
90	16x12	M20	G 1/2"		M20	M20		13/16"
100	18x14.5	M22	G 5/8"		M22	M22		7/8"
160		M24			M24	M24		15/16"
180		M27	G 3/4"			M27	M27	
280	22x18	M30	G 7/8"		M30	M30		1 1/8"
320	25x20	M33	G 1"		M33	M33		1 1/4"
420	28x22	M36	G1 1/8"		M36	M36		1 3/8"
480	32x24	M39	G1 1/4"		M39	M39		1 1/2"
630		M42			M42	M42		1 5/8"
710	36x29	M45	G1 3/8"		M45	M45		1 3/4"
900		M48	G1 1/2"		M48	M48		1 7/8"
				G1 3/4"				
				G2"				
1100	40x32	M52/M56	G2 1/4"		M52	M52/M56		2"
			G2 1/2"					2 1/4"
1400	45x35	M60				M60		
1800	50x39	M64	G2 3/4"			M64		2 1/2"
				G3"				
2000	56x44	M68	G3 1/4"			M68		2 3/4"
								3"
	56x45							

Tabella delle dimensioni ISO
 Tap shank Dimensions to ISO

Ø x ℓ	ISO 529-1975										
	M		UNC		UNF		BSW		BSF		BA
		●		●		●		●		●	●
2.24x1.8	M3		Nr.5-40		Nr.5-44					Nr.5	
2.5x2.0	M3.5	M2	Nr.6-32	Nr.1-64	Nr.6-40	Nr.0-80					Nr.11
						Nr.1-72					Nr.10
											Nr.9
2.8x2.24		M2.2		Nr.5-56		Nr.2-64					Nr.8
		M2.5		Nr.3-48		Nr.3-56					Nr.7
											Nr.6
3.15x2.24	M4	M3		Nr.4-40		Nr.4-48					Nr.5
			Nr.8-32	Nr.5-40	Nr.8-36	Nr.5-44					Nr.3
3.55x2.8	M4.5	M3.5	Nr.10-24	Nr.6-32	Nr.10-32	Nr.6-40	3/16"-24		3/16"-32		Nr.2
4x3.15	M5	M4	Nr.12-24		Nr.12-28			7/32"-28		Nr.1	
4.5x3.55	M6		1/4"-20	Nr.8-32	1/4"-28	Nr.3-36	1/4"-20		1/4"-26		Nr.0
				Nr.10-24		Nr.10-32		3/16"-24	3/16"-32		Nr.2
5x4		M5		Nr.10-24		Nr.10-32		3/16"-24	3/16"-32		Nr.2
5.6x4.5				Nr.12-24		Nr.12-28			9/32"-26	7/32"-28	Nr.1
6.3x5	M8	M6	5/16"-18	1/4"-20	5/16"-24	1/4"-28	5/16"-18	1/4"-20	5/16"-22	1/4"-26	Nr.0
7.1x5.6			3/8"-16		3/8"-24		3/8"-16		3/8"-20	9/32"-26	
8x6.3	M10	M8	7/16"-14	7/16"-18	7/16"-20		7/16"-14	5/16"-18	7/16"-18	5/16"-22	
9x7.1	M12		1/2"-13		1/2"-20		1/2"-12		1/2"-12		
10x8		M10		3/8"-16		3/8"-24		3/8"-16		3/8"-20	
11.2x9	M14		9/16"-12		9/16"-18		9/16"-12		9/16"-16		
12.5x10	M16		5/8"-11		5/8"-18		5/8"-11		3/8"-14		
14x11.2	M18		3/4"-10		3/4"-16		11/16"-14				
	M20						3/4"-10		3/4"-12		
16x12.5	M22		7/8"-9		7/8"-14		7/8"-9		7/8"-11		
18x14	M24		1"-8		1"-12		1"-8		1"-10		
20x16	M27		1 1/8"-7		1 1/8"-12	1 1/8"-7		1 1/8"-9			
	M30										
22.4x18	M33		1 1/4"-7		1 1/4"-12	1 1/4"-7		1 1/4"-9			
25x20	M36		1 3/8"-6		1 3/8"-12			1 3/8"-8			
28x22.4	M39		1 1/2"-6		1 1/2"-12	1 1/2"-6		1 1/2"-8			
	M42								1 1/2"-8		
31.5x25	M45		1 7/16"-5				1 3/4"-5		1 3/4"-7		
	M48										
35.5x28	M52		2"-4 1/2				2"-4 1/2		2"-7		
	M56										
40x31.5	M60		2 1/4"-4 1/4				2 1/4"-4		2 1/4"-6		
	M64		2 1/2"-4				2 1/2"-4		2 1/2"-6		
45x35.5	M68		2 3/4"-4				2 3/4"-3 1/2		2 3/4"-6		
			3"-4				3"-3 1/2		3"-5		
			3 1/4"-4				3 1/4"-3 1/4	3 1/4"-5			
50x40			3 1/2"-4				3 1/2"-3 1/4	3 1/2"-4 1/4			
			3 3/4"-4				3 3/4"-3		3 3/4"-4 1/2		
56x45			4"-4			4"-3		4"-4 1/2			

● Alesatore rinforzato

KIT ISO DIN 69871/A
Weldon DIN 1835 B+E Trazione Compressione

KIT ISO DIN 69871/A
 Weldon DIN 1835 B+E Traction and Compression



KIT.F.TC40-THTC1-L59 + SES		EUR
N°1	Mandrino a doppia compensazione tipo THTC-1	
N°5	Bussole tipo SES-1 (4.5x3.4M4 – 6x4.9M6 – 8x6.2M8 – 10x8M10 – 9x7M12)	
KIT.F.WS25-THTC1-L39 + SES		EUR
N°1	Mandrino a doppia compensazione tipo THTC-1	
N°5	Bussole tipo SES-1 (4.5x3.4M4 – 6x4.9M6 – 8x6.2M8 – 10x8M10 – 9x7M12)	
KIT.TC40-THTC1-L59 + SE		EUR
N°1	Mandrino a doppia compensazione tipo THTC-1	
N°5	Bussole tipo SE-1 (4.5x3.4 – 6x4.9 – 8x6.2 – 10x8 – 9x7)	
KIT.WS25-THTC1-L39 + SE		EUR
N°1	Mandrino a doppia compensazione tipo THTC-1 Ø25 DIN 1835	
N°5	Bussole tipo SE-1 (4.5x3.4 – 6x4.9 – 8x6.2 – 10x8 – 9x7)	
KIT.F.TC40-THTC2-L98 + SES		EUR
N°1	Mandrino a doppia compensazione tipo THTC-2	
N°5	Bussole tipo SES-2 (8x6.2M8 – 10x8M10 – 9x7M12 – 12x9M16 – 14x11M18)	
KIT.F.WS25-THTC2-L63 + SES		EUR
N°1	Mandrino a doppia compensazione tipo THTC-2 Ø25 DIN 1835	
N°5	Bussole tipo SES-2 (8x6.2M8 – 10x8M10 – 9x7M12 – 12x9M16 – 14x11M18)	
KIT.F.WS32-THTC2-L63 + SES		EUR
N°1	Mandrino a doppia compensazione tipo THTC-2 Ø32 DIN 1835	
N°5	Bussole tipo SES-2 (8x6.2M8 – 10x8M10 – 9x7M12 – 12x9M16 – 14x11M18)	
KIT.TC40-THTC2-L98 + SE		EUR
N°1	Mandrino a doppia compensazione tipo THTC-2	
N°5	Bussole tipo SE-2 (8x6.2 – 10x8 – 9x7 – 12x9 – 14x11)	
KIT.WS25-THTC2-L63 + SE		EUR
N°1	Mandrino a doppia compensazione tipo THTC-2 Ø25 DIN 1835	
N°5	Bussole tipo SE-2 (8x6.2 – 10x8 – 9x7 – 12x9 – 14x11)	
KIT.WS32-THTC2-L63 + SE		EUR
N°1	Mandrino a doppia compensazione tipo THTC-2 Ø32 DIN 1835	
N°5	Bussole tipo SE-2 (8x6.2 – 10x8 – 9x7 – 12x9 – 14x11)	

KIT Weldon DIN 1835 B+E fisse

KIT Weldon DIN 1835 B+E fixed

KIT.F.WS25-TLR1-L37 + SES		EUR
N°1	Mandrino Fisso tipo TLR-1 Ø25 DIN 1835	
N°5	Bussole tipo SES-1 (4.5x3.4M4 – 6x4.9M6 – 8x6.2M8)	

KIT.WS25-TLR1-L37 + SE		EUR
N°1	Mandrino Fisso tipo TLR-1 Ø25 DIN 1835	
N°5	Bussole tipo SE-1 (4.5x3.4 – 6x4.9 – 8x6.2 – 10x8 – 9x7)	

KIT.F.WS25-TLR2-L56 + SES		EUR
N°1	Mandrino Fisso tipo TLR-2 Ø25 DIN 1835	
N°5	Bussole tipo SES-2 (8x6.2M8 - 10x8M10 - 9x7M12 – 12x9M16 – 14x11M18)	

KIT.WS25-TLR2-L56 + SE		EUR
N°1	Mandrino Fisso tipo TLR-2 Ø25 DIN 1835	
N°5	Bussole tipo SE-2 (8x6.2 – 10x8 – 9x7 – 12x9 – 14x11)	

KIT SES

KIT SES

KIT.F.SES1		EUR
N°7	Bussole tipo SES-1 (3.5x2.7M3 - 4.5x3.4M4 – 6x4.9M6 – 8x6.2M8 – 10x8M10 – 9x7M12 - 11x9M14)	

KIT.F.SES2		EUR
N°8	Bussole tipo SES-2 (6x4.9M6 - 8x6.2M8 – 10x8M10 – 9x7M12 – 12x9M16 – 14x11M18 – 16x12M20 – 18x14.5M24)	

KIT SE

KIT SE

KIT.F.SE1		EUR
N°7	Bussole tipo SE-1 (3.5x2.7 - 4.5x3.4 – 6x4.9 – 8x6.2 – 10x8 – 9x7 – 11x9)	

KIT.F.SE2		EUR
N°8	Bussole tipo SE-2 (6x4.9 - 8x6.2 – 10x8 – 9x7 – 12x9 – 14x11 – 16x12 – 18x14.5)	

KIT Weldon DIN 1835 B+E Synchro

KIT Weldon DIN 1835 B+E Synchro

KIT.WS25-SY1-L70 + SES		EUR
N°1	Mandrino SYNCHRO tipo SY1 Ø25 DIN 1835	
N°5	Bussole tipo SE-1 (4.5x3.4 – 6x4.9 – 8x6.2 – 10x8 – 9x7)	

KIT.WS25-SYER20-L60		EUR
N°1	Mandrino SYNCHRO tipo SYER20 Ø25 DIN 1835	
N°5	Pinze con quadro di trascinamento (ERXG20M.D4.5 - ERXG20M.D6 ERXG20M.D8 - ERXG20M.D9 - ERXG20M.D10)	

KIT cambi rapidi DIN 228B

KIT Quick change chuck DIN 228B

KIT.CM2B/QC2		EUR
N°1	Mandrino Cambio Rapido (CM2B/QC2)	
N°1	Porta Pinza (QC2/ER16)	
N°1	Cono Morse (QC2/CM1B)	
N°1	Cono Morse (QC2/CM2B)	
N°1	Mandrino (QC2/TC1)	
N°1	Cambio Rapido (QC2/B16)	

KIT.CM3B/QC3		EUR
N°1	Mandrino Cambio Rapido (CM3B/QC3)	
N°1	Porta Pinza (QC3/ER32)	
N°1	Cono Morse (QC3/CM1B)	
N°1	Cono Morse (QC3/CM2B)	
N°1	Mandrino (QC3/CM3B)	
N°1	Cambio Rapido (QC3/TC2)	

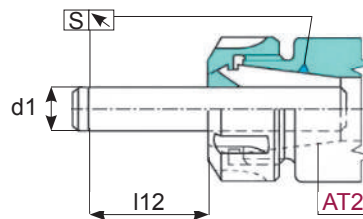
DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI.
 AVAILABLE IN OTHERS MEASURES, CALL YOUR DEALER FOR MORE DETAILS.

Pinze
Collets



CODICE	D mm min-max	CAPACITÀ DI SERRAGGIO mm	A	a AT3	L
ER08 - 4004E	1 ÷ 5	0.5	8.5	8°	13.5
ER11 - 4008E	1 ÷ 7	0.5	11.5	8°	18
ER16 - 426E	1 ÷ 10	0.5 ÷ 1	17	8°	27.5
ER20 - 428E	1 ÷ 14	0.5 ÷ 1	21	8°	31.5
ER25 - 430E	1 ÷ 20	0.5 ÷ 1	26	8°	34
ER32 - 470E	2 ÷ 22	0.5 ÷ 1	33	8°	40
ER40 - 472E	3 ÷ 30	1	41	8°	46
ER50 - 477E	6 ÷ 34	2	52	8°	60
ER60 - 494E	10 ÷ 40	2	61	10°	60

Tolleranza della rotazione delle pinze ER
ER collet concentricity specification



d1 - h5		l12	STANDARD	
Minimo	Massimo		mm Min.	mm Max.
mm	mm	mm		
1	1.6	6	0.010	0.015
1.6	3	10	0.010	0.015
3	7	16	0.010	0.015
7	10	25	0.010	0.015
10	18	40	0.010	0.015
18	26	50	0.015	0.020
26	40	60	0.015	0.020

Il valore della concentricità si controlla sul Ø nominale delle pinze

This runout accuracy is valid only for the nominal size of the collets

– I valori di precisione indicati sono la media di 3 misurazioni a 120° eseguite con una spina di collaudo h6 del diametro nominale della pinza.

– Average of concentricity is tested each 120° at distance L and is valid only for nominal size of collet checked with a h6 pin.

Pinze di precisione standard
Standard precision collets



↗ 0,010 ÷ 0,015

ER8

CODICE	CAPACITÀ			EUR
ER8.D.1	1	÷	0.5	
ER8.D.1.5	1.5	÷	1	
ER8.D.2	2	÷	1.5	
ER8.D.2.5	2.5	÷	2	
ER8.D.3	3	÷	2.5	
ER8.D.3.5	3.5	÷	3	
ER8.D.4	4	÷	3.5	
ER8.D.4.5	4.5	÷	4	
ER8.D.5	5	÷	4.5	



↗ 0,010 ÷ 0,015

ER11

CODICE	CAPACITÀ			EUR
ER11.D.1	1	÷	0.5	
ER11.D.1.5	1.5	÷	1	
ER11.D.2	2	÷	1.5	
ER11.D.2.5	2.5	÷	2	
ER11.D.3	3	÷	2.5	
ER11.D.3.5	3.5	÷	3	
ER11.D.4	4	÷	3.5	
ER11.D.4.5	4.5	÷	4	
ER11.D.5	5	÷	4.5	
ER11.D.5.5	5.5	÷	5	
ER11.D.6	6	÷	5.5	
ER11.D.6.5	6.5	÷	6	
ER11.D.7	7	÷	6.5	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER8-9	
D. 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5	



Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER11-13	
D. 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5	
D. 5 - 5.5 - 6 - 6.5 - 7	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER8-9	
D. 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER11-13	
D. 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5	
D. 5 - 5.5 - 6 - 6.5 - 7	



Pinze di precisione STANDARD
Standard precision collets



ER16

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
ER16.D.1	1	÷	0.5	
ER16.D.2	2	÷	1	
ER16.D.3	3	÷	2	
ER16.D.4	4	÷	3	
ER16.D.5	5	÷	4	
ER16.D.6	6	÷	5	
ER16.D.7	7	÷	6	
ER16.D.8	8	÷	7	
ER16.D.9	9	÷	8	
ER16.D.10	10	÷	9	

ER20

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
ER20.D.1	1	÷	0.5	
ER20.D.2	2	÷	1	
ER20.D.3	3	÷	2	
ER20.D.4	4	÷	3	
ER20.D.5	5	÷	4	
ER20.D.6	6	÷	5	
ER20.D.7	7	÷	6	
ER20.D.8	8	÷	7	
ER20.D.9	9	÷	8	
ER20.D.10	10	÷	9	
ER20.D.11	11	÷	10	
ER20.D.12	12	÷	11	
ER20.D.13	13	÷	12	
ER20.D.14	14	÷	13	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER16-10	
D. 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	



Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER20-12	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER16-10	
D. 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER20-12	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	



Pinze di precisione STANDARD
Standard precision collets



ER25

$\nabla 0,010 \div 0,015$

CODICE	CAPACITÀ			EUR
ER25.D.1	1	÷	1	
ER25.D.2	2	÷	2	
ER25.D.3	3	÷	3	
ER25.D.4	4	÷	4	
ER25.D.5	5	÷	5	
ER25.D.6	6	÷	6	
ER25.D.7	7	÷	7	
ER25.D.8	8	÷	8	
ER25.D.9	9	÷	9	
ER25.D.10	10	÷	10	
ER25.D.11	11	÷	11	
ER25.D.12	12	÷	12	
ER25.D.13	13	÷	13	
ER25.D.14	14	÷	14	
ER25.D.15	15	÷	15	
ER25.D.16	16	÷	16	
ER25.D.17	17	÷	17	
ER25.D.18	18	÷	18	
ER25.D.19	19	÷	19	
ER25.D.20	20	÷	20	

ER32

$\nabla 0,010 \div 0,015$

CODICE	CAPACITÀ			EUR
ER32.D.2	2	÷	1.5	
ER32.D.3	3	÷	2	
ER32.D.4	4	÷	3	
ER32.D.5	5	÷	4	
ER32.D.6	6	÷	5	
ER32.D.7	7	÷	6	
ER32.D.8	8	÷	7	
ER32.D.9	9	÷	8	
ER32.D.10	10	÷	9	
ER32.D.11	11	÷	10	
ER32.D.12	12	÷	11	
ER32.D.13	13	÷	12	
ER32.D.14	14	÷	13	
ER32.D.15	15	÷	14	
ER32.D.16	16	÷	15	
ER32.D.17	17	÷	16	
ER32.D.18	18	÷	17	
ER32.D.19	19	÷	18	
ER32.D.20	20	÷	19	
ER32.D.21	21	÷	20	
ER32.D.22	22	÷	21	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER25-6	
D. 4 - 6 - 8 - 10 - 12 - 16	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER32-6	
D. 6 - 8 - 10 - 12 - 16 - 20	

Cassetta per pinze / Kit in Box

CODICE	EUR
TY.ER25-15 KIT Fig. 1	
BX.ER25-15 BOX Fig. 2	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11	
D. 12 - 13 - 14 - 15 - 16	

Cassetta per pinze / Kit in Box

CODICE	EUR
TY.ER32-18 Fig. 1	
BX.ER32-18 Fig. 2	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	
D. 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20	

Fig. 1



Fig. 2



Fig. 1



Fig. 2



Pinze di precisione STANDARD
Standard precision collets



ER40

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
ER40.D.3	3	÷	2	
ER40.D.4	4	÷	3	
ER40.D.5	5	÷	4	
ER40.D.6	6	÷	5	
ER40.D.7	7	÷	6	
ER40.D.8	8	÷	7	
ER40.D.9	9	÷	8	
ER40.D.10	10	÷	9	
ER40.D.11	11	÷	10	
ER40.D.12	12	÷	11	
ER40.D.13	13	÷	12	
ER40.D.14	14	÷	13	
ER40.D.15	15	÷	14	
ER40.D.16	16	÷	15	
ER40.D.17	17	÷	16	
ER40.D.18	18	÷	17	
ER40.D.19	19	÷	18	
ER40.D.20	20	÷	19	
ER40.D.21	21	÷	20	
ER40.D.22	22	÷	21	
ER40.D.23	23	÷	22	
ER40.D.24	24	÷	23	
ER40.D.25	25	÷	24	
ER40.D.26	26	÷	25	
ER40.D.27	27	÷	26	
ER40.D.28	28	÷	27	
ER40.D.29	29	÷	28	
ER40.D.30	30	÷	29	

ER50

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
ER50.D.6	6	÷	5	
ER50.D.7	7	÷	6	
ER50.D.8	8	÷	7	
ER50.D.9	9	÷	8	
ER50.D.10	10	÷	9	
ER50.D.11	11	÷	10	
ER50.D.12	12	÷	10	
ER50.D.13	13	÷	11	
ER50.D.14	14	÷	12	
ER50.D.15	15	÷	13	
ER50.D.16	16	÷	14	
ER50.D.17	17	÷	15	
ER50.D.18	18	÷	16	
ER50.D.19	19	÷	17	
ER50.D.20	20	÷	18	
ER50.D.21	21	÷	19	
ER50.D.22	22	÷	20	
ER50.D.23	23	÷	21	
ER50.D.24	24	÷	22	
ER50.D.25	25	÷	23	
ER50.D.26	26	÷	24	
ER50.D.27	27	÷	25	
ER50.D.28	28	÷	26	
ER50.D.29	29	÷	27	
ER50.D.30	30	÷	28	
ER50.D.31	31	÷	29	
ER50.D.32	32	÷	30	
ER50.D.33	33	÷	31	
ER50.D.34	34	÷	32	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER40-23 KIT Fig. 1	
BX.ER40-23 BOX Fig. 2	
D. 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	
D. 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23	
D. 24 - 25 - 26	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER50-12	
D. 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26	
D. 28 - 30 - 32 - 34	

Fig. 1



Fig. 2



Pinze di precisione STANDARD

Standard precision collets

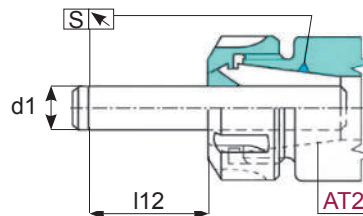

ER60
 $\nabla 0,010 \div 0,015$

CODICE	CAPACITÀ			EUR
ER60.D.10	10	÷	9	
ER60.D.11	11	÷	10	
ER60.D.12	12	÷	10	
ER60.D.13	13	÷	11	
ER60.D.14	14	÷	12	
ER60.D.15	15	÷	13	
ER60.D.16	16	÷	14	
ER60.D.17	17	÷	15	
ER60.D.18	18	÷	16	
ER60.D.19	19	÷	17	
ER60.D.20	20	÷	18	
ER60.D.21	21	÷	19	
ER60.D.22	22	÷	20	
ER60.D.23	23	÷	21	
ER60.D.24	24	÷	22	

CODICE	CAPACITÀ			EUR
ER60.D.25	25	÷	23	
ER60.D.26	26	÷	24	
ER60.D.27	27	÷	25	
ER60.D.28	28	÷	26	
ER60.D.29	29	÷	27	
ER60.D.30	30	÷	28	
ER60.D.31	31	÷	29	
ER60.D.32	32	÷	30	
ER60.D.33	33	÷	31	
ER60.D.34	34	÷	32	
ER60.D.35	35	÷	33	
ER60.D.36	36	÷	34	
ER60.D.37	37	÷	35	
ER60.D.38	38	÷	36	
ER60.D.39	39	÷	37	
ER60.D.40	40	÷	38	

Tolleranza della rotazione delle Pinze ER HP

ER HP collet concentricity specification



Minimo	d1 - h5		l12	HP S max
	mm	Massimo mm		
1		1.6	6	0.005
1.6		3	10	0.005
3		7	16	0.005
7		10	25	0.005
10		18	40	0.005
18		26	50	0.005
26		40	60	0.005

 Il valore della concentricità si controlla sul \varnothing nominale delle pinze.

This runout accuracy is valid only for the nominal size of the collets.

Pinze di alta precisione
High precision collets



ER8-UP

↗ 0,005HP

CODICE	CAPACITÀ			EUR
ER8UP.D.1	1	÷	0.5	
ER8UP.D.1.5	1.5	÷	1	
ER8UP.D.2	2	÷	1.5	
ER8UP.D.2.5	2.5	÷	2	
ER8UP.D.3	3	÷	2.5	
ER8UP.D.3.5	3.5	÷	3	
ER8UP.D.4	4	÷	3.5	
ER8UP.D.4.5	4.5	÷	4	
ER8UP.D.5	5	÷	4.5	

ER11-UP

↗ 0,005HP

CODICE	CAPACITÀ			EUR
ER11UP.D.1	1	÷	0.5	
ER11UP.D.1.5	1.5	÷	1	
ER11UP.D.2	2	÷	1.5	
ER11UP.D.2.5	2.5	÷	2	
ER11UP.D.3	3	÷	2.5	
ER11UP.D.3.5	3.5	÷	3	
ER11UP.D.4	4	÷	3.5	
ER11UP.D.4.5	4.5	÷	4	
ER11UP.D.5	5	÷	4.5	
ER11UP.D.5.5	5.5	÷	5	
ER11UP.D.6	6	÷	5.5	
ER11UP.D.6.5	6.5	÷	6	
ER11UP.D.7	7	÷	6.5	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER8UP-9	
D. 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5	



Kit di pinze / Kit in Tray

CODICE	EUR
TY.ER11UP-13	
D. 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5	
D. 5.5 - 6 - 6.5 - 7	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER8UP-9	
D. 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER11UP-13	
D. 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5	
D. 5.5 - 6 - 6.5 - 7	



Pinze di alta precisione
High precision collets



ER16-UP

0,005HP

CODICE	CAPACITÀ			EUR
ER16UP.D.1	1	÷	0.5	
ER16UP.D.1.5	1.5	÷	1	
ER16UP.D.2	2	÷	1.5	
ER16UP.D.2.5	2.5	÷	2	
ER16UP.D.3	3	÷	2.5	
ER16UP.D.3.5	3.5	÷	3	
ER16UP.D.4	4	÷	3.5	
ER16UP.D.4.5	4.5	÷	4	
ER16UP.D.5	5	÷	4.5	
ER16UP.D.5.5	5.5	÷	5	
ER16UP.D.6	6	÷	5.5	
ER16UP.D.6.5	6.5	÷	6	
ER16UP.D.7	7	÷	6.5	
ER16UP.D.7.5	7.5	÷	7	
ER16UP.D.8	8	÷	7.5	
ER16UP.D.8.5	8.5	÷	8	
ER16UP.D.9	9	÷	8.5	
ER16UP.D.9.5	9.5	÷	9	
ER16UP.D.10	10	÷	9.5	

ER20-UP

0,005HP

CODICE	CAPACITÀ			EUR
ER20UP.D.1	1	÷	0.5	
ER20UP.D.1.5	1.5	÷	1	
ER20UP.D.2	2	÷	1.5	
ER20UP.D.2.5	2.5	÷	2	
ER20UP.D.3	3	÷	2.5	
ER20UP.D.3.5	3.5	÷	3	
ER20UP.D.4	4	÷	3.5	
ER20UP.D.4.5	4.5	÷	4	
ER20UP.D.5	5	÷	4.5	
ER20UP.D.5.5	5.5	÷	5	
ER20UP.D.6	6	÷	5.5	
ER20UP.D.6.5	6.5	÷	6	
ER20UP.D.7	7	÷	6.5	
ER20UP.D.7.5	7.5	÷	7	
ER20UP.D.8	8	÷	7.5	
ER20UP.D.8.5	8.5	÷	8	
ER20UP.D.9	9	÷	8.5	
ER20UP.D.9.5	9.5	÷	9	
ER20UP.D.10	10	÷	9.5	
ER20UP.D.10.5	10.5	÷	10	
ER20UP.D.11	11	÷	10.5	
ER20UP.D.11.5	11.5	÷	11	
ER20UP.D.12	12	÷	11.5	
ER20UP.D.12.5	12.5	÷	12	
ER20UP.D.13	13	÷	12.5	

Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER16UP-10	
D. 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER20UP-12	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	



Pinze di alta precisione
High precision collets



ER25-UP

0,005HP

CODICE	CAPACITÀ			EUR
ER25UP.D.1	1	÷	0.5	
ER25UP.D.1.5	1.5	÷	1	
ER25UP.D.2	2	÷	1.5	
ER25UP.D.2.5	2.5	÷	2	
ER25UP.D.3	3	÷	2.5	
ER25UP.D.3.5	3.5	÷	3	
ER25UP.D.4	4	÷	3.5	
ER25UP.D.4.5	4.5	÷	4	
ER25UP.D.5	5	÷	4.5	
ER25UP.D.5.5	5.5	÷	5	
ER25UP.D.6	6	÷	5.5	
ER25UP.D.6.5	6.5	÷	6	
ER25UP.D.7	7	÷	6.5	
ER25UP.D.7.5	7.5	÷	7	
ER25UP.D.8	8	÷	7.5	
ER25UP.D.8.5	8.5	÷	8	
ER25UP.D.9	9	÷	8.5	
ER25UP.D.9.5	9.5	÷	9	
ER25UP.D.10	10	÷	9.5	
ER25UP.D.10.5	10.5	÷	10	
ER25UP.D.11	11	÷	10.5	
ER25UP.D.11.5	11.5	÷	11	
ER25UP.D.12	12	÷	11.5	
ER25UP.D.12.5	12.5	÷	12	
ER25UP.D.13	13	÷	12.5	
ER25UP.D.13.5	13.5	÷	13	
ER25UP.D.14	14	÷	13.5	
ER25UP.D.14.5	14.5	÷	14	
ER25UP.D.15	15	÷	14.5	
ER25UP.D.15.5	15.5	÷	15	
ER25UP.D.16	16	÷	15.5	

ER32-UP

0,005HP

CODICE	CAPACITÀ			EUR
ER32UP.D.2	2	÷	1.5	
ER32UP.D.2.5	2.5	÷	2	
ER32UP.D.3	3	÷	2.5	
ER32UP.D.3.5	3.5	÷	3	
ER32UP.D.4	4	÷	3.5	
ER32UP.D.4.5	4.5	÷	4	
ER32UP.D.5	5	÷	4.5	
ER32UP.D.5.5	5.5	÷	5	
ER32UP.D.6	6	÷	5.5	
ER32UP.D.6.5	6.5	÷	6	
ER32UP.D.7	7	÷	6.5	
ER32UP.D.7.5	7.5	÷	7	
ER32UP.D.8	8	÷	7.5	
ER32UP.D.8.5	8.5	÷	8	
ER32UP.D.9	9	÷	8.5	
ER32UP.D.9.5	9.5	÷	9	
ER32UP.D.10	10	÷	9.5	
ER32UP.D.10.5	10.5	÷	10	
ER32UP.D.11	11	÷	10.5	
ER32UP.D.11.5	11.5	÷	11	
ER32UP.D.12	12	÷	11.5	
ER32UP.D.12.5	12.5	÷	12	
ER32UP.D.13	13	÷	12.5	
ER32UP.D.13.5	13.5	÷	13	
ER32UP.D.14	14	÷	13.5	
ER32UP.D.14.5	14.5	÷	14	
ER32UP.D.15	15	÷	14.5	
ER32UP.D.15.5	15.5	÷	15	
ER32UP.D.16	16	÷	15.5	
ER32UP.D.16.5	16.5	÷	16	
ER32UP.D.17	17	÷	16.5	
ER32UP.D.17.5	17.5	÷	17	
ER32UP.D.18	18	÷	17.5	
ER32UP.D.18.5	18.5	÷	18	
ER32UP.D.19	19	÷	18.5	
ER32UP.D.19.5	19.5	÷	19	
ER32UP.D.20	20	÷	19.5	

Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER25UP-15	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	
D. 14 - 15 - 16	

Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER32UP-18	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	
D. 14 - 15 - 16 - 17 - 18 - 19 - 20	



Pinze di alta precisione
High precision collets



ER40-UP

↗ 0,005HP

CODICE	CAPACITÀ			EUR
ER40UP.D.3	3	÷	2	
ER40UP.D.4	4	÷	3	
ER40UP.D.5	5	÷	4	
ER40UP.D.6	6	÷	5	
ER40UP.D.7	7	÷	6	
ER40UP.D.8	8	÷	7	
ER40UP.D.9	9	÷	8	
ER40UP.D.10	10	÷	9	
ER40UP.D.11	11	÷	10	
ER40UP.D.12	12	÷	11	
ER40UP.D.13	13	÷	12	
ER40UP.D.14	14	÷	13	
ER40UP.D.15	15	÷	14	
ER40UP.D.16	16	÷	15	
ER40UP.D.17	17	÷	16	
ER40UP.D.18	18	÷	17	
ER40UP.D.19	19	÷	18	
ER40UP.D.20	20	÷	19	
ER40UP.D.21	21	÷	20	
ER40UP.D.22	22	÷	21	
ER40UP.D.23	23	÷	22	
ER40UP.D.24	24	÷	23	
ER40UP.D.25	25	÷	24	
ER40UP.D.26	26	÷	25	

Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ER40UP-23	
D. 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	
D. 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24	
D. 25 - 26	



Pinze per tenuta del refrigerante

Collets for coolant



Max. 40 BAR

ERXG-11

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERXG11.D.3	3	
ERXG11.D.3.5	3.5	
ERXG11.D.4	4	
ERXG11.D.4.5	4.5	
ERXG11.D.5	5	
ERXG11.D.5.5	5.50	
ERXG11.D.6	6	
ERXG11.D.6.5	6.5	
ERXG11.D.7	7	

ERXG-16

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERXG16.D.3	3	
ERXG16.D.4	4	
ERXG16.D.5	5	
ERXG16.D.6	6	
ERXG16.D.7	7	
ERXG16.D.8	8	
ERXG16.D.9	9	
ERXG16.D.10	10	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ERXG11-8	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	



Kit di pinze / Kit in Tray

CODICE	EUR
TY.ERXG16-8	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ERXG11-8	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ERXG16-8	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	



Pinze per tenuta del refrigerante

Collets for coolant



Max. 40 BAR

ERXG-20

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERXG20.D.3	3	
ERXG20.D.4	4	
ERXG20.D.5	5	
ERXG20.D.6	6	
ERXG20.D.7	7	
ERXG20.D.8	8	
ERXG20.D.9	9	
ERXG20.D.10	10	
ERXG20.D.11	11	
ERXG20.D.12	12	
ERXG20.D.13	13	

ERXG-25

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERXG25.D.3	3	
ERXG25.D.4	4	
ERXG25.D.5	5	
ERXG25.D.6	6	
ERXG25.D.7	7	
ERXG25.D.8	8	
ERXG25.D.9	9	
ERXG25.D.10	10	
ERXG25.D.11	11	
ERXG25.D.12	12	
ERXG25.D.13	13	
ERXG25.D.14	14	
ERXG25.D.15	15	
ERXG25.D.16	16	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ERXG20-11	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	



Kit di pinze / Kit in Tray

CODICE	EUR
TY.ERXG16-8	
D. 4 - 6 - 8 - 10 - 12 - 16	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ERXG20-11	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	



Cassetta per pinze / Kit in Box

CODICE	EUR
TY.ERXG25-14	
BX.ERXG25-14	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	
D. 15 - 16	



Bloccano solo il diametro nominale
Only nominal size can be clamped

Pinze per tenuta del refrigerante

Collets for coolant



Max. 40 BAR

ERXG-32

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERXG32.D.3	3	
ERXG32.D.4	4	
ERXG32.D.5	5	
ERXG32.D.6	6	
ERXG32.D.7	7	
ERXG32.D.8	8	
ERXG32.D.9	9	
ERXG32.D.10	10	
ERXG32.D.11	11	
ERXG32.D.12	12	
ERXG32.D.13	13	
ERXG32.D.14	14	
ERXG32.D.15	15	
ERXG32.D.16	16	
ERXG32.D.17	17	
ERXG32.D.18	18	
ERXG32.D.19	19	
ERXG32.D.20	20	

ERXG-40

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERXG40.D.3	3	
ERXG40.D.4	4	
ERXG40.D.5	5	
ERXG40.D.6	6	
ERXG40.D.7	7	
ERXG40.D.8	8	
ERXG40.D.9	9	
ERXG40.D.10	10	
ERXG40.D.11	11	
ERXG40.D.12	12	
ERXG40.D.13	13	
ERXG40.D.14	14	
ERXG40.D.15	15	
ERXG40.D.16	16	
ERXG40.D.17	17	
ERXG40.D.18	18	
ERXG40.D.19	19	
ERXG40.D.20	20	
ERXG40.D.21	21	
ERXG40.D.22	22	
ERXG40.D.23	23	
ERXG40.D.24	24	
ERXG40.D.25	25	
ERXG40.D.26	26	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.ERXG32-6	
D. 6 - 8 - 10 - 12 - 16 - 20	



Cassetta per pinze / Kit in Box

CODICE	EUR
TY.ERXG32-18	
BX.ERXG32-18	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	
D. 15 - 16 - 17 - 18 - 19 - 20	

Fig. 2



Cassetta per pinze / Kit in Box

CODICE	EUR
TY.ERXG40-7	KIT Fig. 1
TY.ERXG40-23	KIT Fig. 1
BX.ERXG40-23	BOX Fig. 2
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15	
D. 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26	

Fig. 1



Fig. 2



Pinze a tenuta del refrigerante

Rubber sealed collets



Max. 40 BAR

ERXG-50

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERXG50.D.10	10	
ERXG50.D.12	12	
ERXG50.D.14	14	
ERXG50.D.16	16	
ERXG50.D.18	18	
ERXG50.D.20	20	
ERXG50.D.22	22	
ERXG50.D.24	24	
ERXG50.D.25	25	
ERXG50.D.26	26	
ERXG50.D.28	28	
ERXG50.D.30	30	
ERXG50.D.32	32	
ERXG50.D.34	34	

Cassetta per pinze / Kit in Box

CODICE	EUR
TY.ERXG50-7	KIT Fig. 1
TY.ERXG50-12	KIT Fig. 1
BX.ERXG50-12	BOX Fig. 2
D. 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30	
D. 32 - 34	

Fig. 1



Fig. 2



Pinze a tenuta del refrigerante con tagli corti

Solid sealed collets with short rear slots



Max. 130 BAR

ER25-SSC

↗0,008

CODICE	CAPACITÀ	EUR
ERC25SSC.D.3	3	
ERC25SSC.D.4	4	
ERC25SSC.D.5	5	
ERC25SSC.D.6	6	
ERC25SSC.D.7	7	
ERC25SSC.D.8	8	
ERC25SSC.D.9	9	
ERC25SSC.D.10	10	
ERC25SSC.D.11	11	
ERC25SSC.D.12	12	
ERC25SSC.D.13	13	
ERC25SSC.D.14	14	
ERC25SSC.D.15	15	
ERC25SSC.D.16	16	

ER40-SSC

↗0,008

CODICE	CAPACITÀ	EUR
ERC40SSC.D.4	4	
ERC40SSC.D.5	5	
ERC40SSC.D.6	6	
ERC40SSC.D.7	7	
ERC40SSC.D.8	8	
ERC40SSC.D.9	9	
ERC40SSC.D.10	10	
ERC40SSC.D.11	11	
ERC40SSC.D.12	12	
ERC40SSC.D.13	13	
ERC40SSC.D.14	14	
ERC40SSC.D.15	15	
ERC40SSC.D.16	16	
ERC40SSC.D.17	17	
ERC40SSC.D.18	18	
ERC40SSC.D.19	19	
ERC40SSC.D.20	20	
ERC40SSC.D.21	21	
ERC40SSC.D.22	22	
ERC40SSC.D.23	23	
ERC40SSC.D.24	24	
ERC40SSC.D.25	25	
ERC40SSC.D.26	26	

ER32-SSC

↗0,008

CODICE	CAPACITÀ	EUR
ERC32SSC.D.3	3	
ERC32SSC.D.4	4	
ERC32SSC.D.5	5	
ERC32SSC.D.6	6	
ERC32SSC.D.7	7	
ERC32SSC.D.8	8	
ERC32SSC.D.9	9	
ERC32SSC.D.10	10	
ERC32SSC.D.11	11	
ERC32SSC.D.12	12	
ERC32SSC.D.13	13	
ERC32SSC.D.14	14	
ERC32SSC.D.15	15	
ERC32SSC.D.16	16	
ERC32SSC.D.17	17	
ERC32SSC.D.18	18	
ERC32SSC.D.19	19	
ERC32SSC.D.20	20	

Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ERC25SSC-13 D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 13 - 14 - 15 - 16	
BX.ERC32SSC-18 D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 D. 15 - 16 - 17 - 18 - 19 - 20	
BX.ERC40SSC-23 D. 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 13 - 14 - 15 - 16 D. 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26	



Pinze con fori di lubrificazione
 Collets with coolant holes

ER16-JET

0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERC16JET.D.3	3	
ERC16JET.D.4	4	
ERC16JET.D.5	5	
ERC16JET.D.6	6	
ERC16JET.D.7	7	
ERC16JET.D.8	8	

ER20-JET

0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERC20JET.D.3	3	
ERC20JET.D.4	4	
ERC20JET.D.5	5	
ERC20JET.D.6	6	
ERC20JET.D.7	7	
ERC20JET.D.8	8	
ERC20JET.D.9	9	
ERC20JET.D.10	10	
ERC20JET.D.11	11	

ER25-JET

0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERC25JET.D.3	3	
ERC25JET.D.4	4	
ERC25JET.D.5	5	
ERC25JET.D.6	6	
ERC25JET.D.7	7	
ERC25JET.D.8	8	
ERC25JET.D.9	9	
ERC25JET.D.10	10	
ERC25JET.D.11	11	
ERC25JET.D.12	12	
ERC25JET.D.13	13	
ERC25JET.D.14	14	

ER32-JET

0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERC32JET.D.3	3	
ERC32JET.D.4	4	
ERC32JET.D.5	5	
ERC32JET.D.6	6	
ERC32JET.D.7	7	
ERC32JET.D.8	8	
ERC32JET.D.9	9	
ERC32JET.D.10	10	
ERC32JET.D.11	11	
ERC32JET.D.12	12	
ERC32JET.D.13	13	
ERC32JET.D.14	14	
ERC32JET.D.15	15	
ERC32JET.D.16	16	
ERC32JET.D.17	17	
ERC32JET.D.18	18	
ERC32JET.D.19	19	
ERC32JET.D.20	20	

ER40-JET

0,010 ÷ 0,015

CODICE	CAPACITÀ	EUR
ERC40JET.D.4	4	
ERC40JET.D.5	5	
ERC40JET.D.6	6	
ERC40JET.D.7	7	
ERC40JET.D.8	8	
ERC40JET.D.9	9	
ERC40JET.D.10	10	
ERC40JET.D.11	11	
ERC40JET.D.12	12	
ERC40JET.D.13	13	
ERC40JET.D.14	14	
ERC40JET.D.15	15	
ERC40JET.D.16	16	
ERC40JET.D.17	17	
ERC40JET.D.18	18	
ERC40JET.D.19	19	
ERC40JET.D.20	20	
ERC40JET.D.21	21	
ERC40JET.D.22	22	
ERC40JET.D.23	23	
ERC40JET.D.24	24	
ERC40JET.D.25	25	
ERC40JET.D.26	26	

Cassetta per pinze
Kit in Box

CODICE		EUR
BX.ERC16JET-8	BOX Fig. 1	
D. 3 - 4 - 5 - 6 - 7 - 8		
BX.ERC20JET-11	BOX Fig. 1	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11		
BX.ERC25JET-13	BOX Fig. 1	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 13 - 14 - 15 - 16		
BX.ERC32JET-18	BOX Fig. 2	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15		
D. 16 - 17 - 18 - 19 - 20		



Cassetta per pinze
Kit in Box

CODICE		EUR
BX.ERC40JET-23		
D. 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 13 - 14 - 15 - 16 - 17		
D. 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26		



Pinze con quadro e fori di lubrificazione
 Tapping collets with internal square and coolant holes


ERX-16M JET

CODICE	M	Ø	X	∇	EUR
ERX16MJET.D.3.5	M3	3.5	x	2.7	
ERX16MJET.D.4	M3.5	4	x	3	
ERX16MJET.D.4.5	M4	4.5	x	3.4	
ERX16MJET.D.6	M5-6-8	6	x	4.9	
ERX16MJET.D.7	M7-10	7	x	5.5	
ERX16MJET.D.8	M8	8	x	6.2	

ERX-25M JET

CODICE	M	Ø	X	∇	EUR
ERX25MJET.D.3.5	M3	3.5	x	2.7	
ERX25MJET.D.4	M3.5	4	x	3	
ERX25MJET.D.4.5	M4	4.5	x	3.4	
ERX25MJET.D.5	M5	5	x	4	
ERX25MJET.D.6	M5-6-8	6	x	4.9	
ERX25MJET.D.7	M7-10	7	x	5.5	
ERX25MJET.D.8	M8	8	x	6.2	
ERX25MJET.D.9	M9-12	9	x	7	
ERX25MJET.D.10	M10	10	x	8	
ERX25MJET.D.11	M14	11	x	9	
ERX25MJET.D.12	M16	12	x	9	

ERX-20M JET

CODICE	M	Ø	X	∇	EUR
ERX20MJET.D.3.5	M3	3.5	x	2.7	
ERX20MJET.D.4	M3.5	4	x	3	
ERX20MJET.D.4.5	M4	4.5	x	3.4	
ERX20MJET.D.6	M5-6-8	6	x	4.9	
ERX20MJET.D.7	M7-10	7	x	5.5	
ERX20MJET.D.8	M8	8	x	6.2	
ERX20MJET.D.9	M9-12	9	x	7	
ERX20MJET.D.10	M10	10	x	8	

ERX-32M JET

CODICE	M	Ø	X	∇	EUR
ERX32MJET.D.4.5	M4	4.5	x	3.4	
ERX32MJET.D.6	M5-6-8	6	x	4.9	
ERX32MJET.D.7	M7-10	7	x	5.5	
ERX32MJET.D.8	M8	8	x	6.2	
ERX32MJET.D.9	M9-12	9	x	7	
ERX32MJET.D.10	M10	10	x	8	
ERX32MJET.D.11	M14	11	x	9	
ERX32MJET.D.12	M16	12	x	9	
ERX32MJET.D.14	M18	14	x	11	
ERX32MJET.D.16	M20	16	x	12	

Pinze portamaschi con quadro

Tapping collets with internal square



ERX-16M

CODICE	M	Ø	X	∇	EUR
ERX16M.D.3.5	M3	3.5	x	2.7	
ERX16M.D.4	M3.5	4	x	3	
ERX16M.D.4.5	M4	4.5	x	3.4	
ERX16M.D.5	M5	5	x	4	
ERX16M.D.6	M5-6-8	6	x	4.9	
ERX16M.D.6.3	M6-8	6.3	x	5	
ERX16M.D.7	M7-10	7	x	5.5	
ERX16M.D.8	M8	8	x	6.2	
ERX16M.D.9	M12	9	x	7	
ERX16M.D.10	M10	10	x	8	

ERX-32M

CODICE	M	Ø	X	∇	EUR
ERX32M.D.3.5	M3	3.5	x	2.7	
ERX32M.D.4	M3.5	4	x	3	
ERX32M.D.4.5	M4	4.5	x	3.4	
ERX32M.D.6	M5-6-8	6	x	4.9	
ERX32M.D.7	M7-10	7	x	5.5	
ERX32M.D.8	M8	8	x	6.2	
ERX32M.D.9	M9-12	9	x	7	
ERX32M.D.10	M10	10	x	8	
ERX32M.D.11	M14	11	x	9	
ERX32M.D.12	M16	12	x	9	
ERX32M.D.14	M18	14	x	11	
ERX32M.D.16	M20	16	x	12	
ERX32M.D.18	M24	18	x	14.5	
ERX32M.D.20	M27	20	x	16	

ERX-20M

CODICE	M	Ø	X	∇	EUR
ERX20M.D.3.5	M3	3.5	x	2.7	
ERX20M.D.4	M3.5	4	x	3	
ERX20M.D.4.5	M4	4.5	x	3.4	
ERX20M.D.5	M5	5	x	4	
ERX20M.D.6	M5-6-8	6	x	4.9	
ERX20M.D.6.3	M6-8	6.3	x	5	
ERX20M.D.7	M7-10	7	x	5.5	
ERX20M.D.8	M8	8	x	6.2	
ERX20M.D.9	M9-12	9	x	7	
ERX20M.D.10	M10	10	x	8	
ERX20M.D.11	M14	11	x	9	
ERX20M.D.12	M16	12	x	9	

ERX-40M

CODICE	M	Ø	X	∇	EUR
ERX40M.D.6	M5-6-8	6	x	4.9	
ERX40M.D.7	M7-10	7	x	5.5	
ERX40M.D.8	M8	8	x	6.2	
ERX40M.D.9	M9-12	9	x	7	
ERX40M.D.10	M10	10	x	8	
ERX40M.D.11	M14	11	x	9	
ERX40M.D.12	M16	12	x	9	
ERX40M.D.14	M18	14	x	11	
ERX40M.D.16	M20	16	x	12	
ERX40M.D.18	M24	18	x	14.5	
ERX40M.D.20	M27	20	x	16	

ERX-25M

CODICE	M	Ø	X	∇	EUR
ERX25M.D.3.5	M3	3.5	x	2.7	
ERX25M.D.4	M3.5	4	x	3	
ERX25M.D.4.5	M4	4.5	x	3.4	
ERX25M.D.5	M5	5	x	4	
ERX25M.D.6	M5-6-8	6	x	4.9	
ERX25M.D.6.3	M6-8	6.3	x	5	
ERX25M.D.7	M7-10	7	x	5.5	
ERX25M.D.8	M8	8	x	6.2	
ERX25M.D.9	M9-12	9	x	7	
ERX25M.D.10	M10	10	x	8	
ERX25M.D.11	M14	11	x	9	
ERX25M.D.12	M 6	12	x	9	
ERX25M.D.14	M18	14	x	11	
ERX25M.D.16	M20	16	x	12	

ERX-50M

CODICE	M	Ø	X	∇	EUR
ERX50M.D.8	M8	8	x	6.2	
ERX50M.D.9	M9-12	9	x	7	
ERX50M.D.10	M10	10	x	8	
ERX50M.D.11	M14	11	x	9	
ERX50M.D.12	M16	12	x	9	
ERX50M.D.14	M18	14	x	11	
ERX50M.D.16	M20	16	x	12	
ERX50M.D.18	M24	18	x	14.5	
ERX50M.D.20	M27	20	x	16	
ERX50M.D.22-24	M30	22	x	18	
ERX50M.D.25	M33	25	x	20	
ERX50M.D.28	M36	28	x	22	
ERX50M.D.32	M39-42	32	x	24	

Pinze portamaschi con quadro a tenuta del refrigerante
 Rubber sealed tapping collets with internal square



ERXG-16M

CODICE	M	Ø	X	∇	EUR
ERXG16M.D.4	M3.5	4	x	3	
ERXG16M.D.4.5	M4	4.5	x	3.4	
ERXG16M.D.6	M5-6-8	6	x	4.9	
ERXG16M.D.7	M7-10	7	x	5.5	
ERXG16M.D.8	M8	8	x	6.2	

ERXG-32M

CODICE	M	Ø	X	∇	EUR
ERXG32M.D.4.5	M4	4.5	x	3.4	
ERXG32M.D.6	M5-6-8	6	x	4.9	
ERXG32M.D.7	M7-10	7	x	5.5	
ERXG32M.D.8	M8	8	x	6.2	
ERXG32M.D.9	M9-12	9	x	7	
ERXG32M.D.10	M10	10	x	8	
ERXG32M.D.11	M14	11	x	9	
ERXG32M.D.12	M16	12	x	9	
ERXG32M.D.14	M18	14	x	11	
ERXG32M.D.16	M20	16	x	12	

ERXG-20M

CODICE	M	Ø	X	∇	EUR
ERXG20M.D.4	M3.5	4	x	3	
ERXG20M.D.4.5	M4	4.5	x	3.4	
ERXG20M.D.6	M5-6-8	6	x	4.9	
ERXG20M.D.7	M7-10	7	x	5.5	
ERXG20M.D.8	M8	8	x	6.2	
ERXG20M.D.9	M9-12	9	x	7	
ERXG20M.D.10	M10	10	x	8	

ERXG-40M

CODICE	M	Ø	X	∇	EUR
ERXG40M.D.6	M5-6-8	6	x	4.9	
ERXG40M.D.7	M7-10	7	x	5.5	
ERXG40M.D.8	M8	8	x	6.2	
ERXG40M.D.9	M9-12	9	x	7	
ERXG40M.D.10	M10	10	x	8	
ERXG40M.D.11	M14	11	x	9	
ERXG40M.D.12	M16	12	x	9	
ERXG40M.D.14	M18	14	x	11	
ERXG40M.D.16	M20	16	x	12	
ERXG40M.D.18	M24	18	x	14.5	
ERXG40M.D.20	M27	20	x	16	

ERXG-25M

CODICE	M	Ø	X	∇	EUR
ERXG25M.D.4	M3.5	4	x	3	
ERXG25M.D.4.5	M4	4.5	x	3.4	
ERXG25M.D.6	M5-6-8	6	x	4.9	
ERXG25M.D.7	M7-10	7	x	5.5	
ERXG25M.D.8	M8	8	x	6.2	
ERXG25M.D.9	M9-12	9	x	7	
ERXG25M.D.10	M10	10	x	8	
ERXG25M.D.11	M14	11	x	9	
ERXG25M.D.12	M16	12	x	9	

Pinze con oscillazione radiale per alesatori
 Floating collets for reamers


ER16-PA

CODICE	Ø Alesatore	EUR
ERC16PA.D.2	2	
ERC16PA.D.3	3	
ERC16PA.D.4	4	
ERC16PA.D.5	5	
ERC16PA.D.6	6	
ERC16PA.D.7	7	

ER20-PA

CODICE	Ø Alesatore	EUR
ERC20PA.D.3	3	
ERC20PA.D.4	4	
ERC20PA.D.5	5	
ERC20PA.D.6	6	
ERC20PA.D.7	7	
ERC20PA.D.8	8	

ER25-PA

CODICE	Ø Alesatore	EUR
ERC25PA.D.3	3	
ERC25PA.D.4	4	
ERC25PA.D.5	5	
ERC25PA.D.6	6	
ERC25PA.D.7	7	
ERC25PA.D.8	8	
ERC25PA.D.9	9	
ERC25PA.D.10	10	

ER32-PA

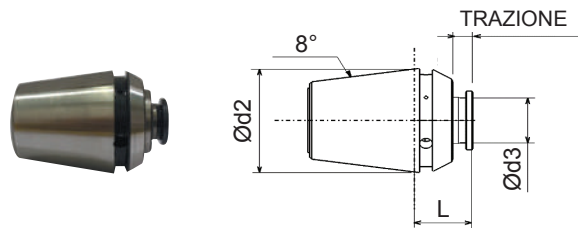
CODICE	Ø Alesatore	EUR
ERC32PA.D.4	4	
ERC32PA.D.5	5	
ERC32PA.D.6	6	
ERC32PA.D.7	7	
ERC32PA.D.8	8	
ERC32PA.D.9	9	
ERC32PA.D.10	10	
ERC32PA.D.11	11	
ERC32PA.D.12	12	
ERC32PA.D.13	13	

ER40-PA

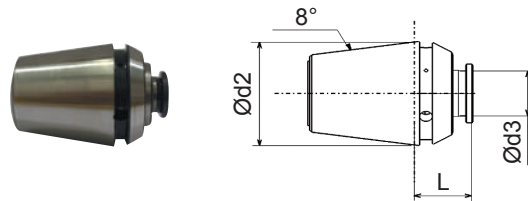
CODICE	Ø Alesatore	EUR
ERC40PA.D.4	4	
ERC40PA.D.5	5	
ERC40PA.D.6	6	
ERC40PA.D.7	7	
ERC40PA.D.8	8	
ERC40PA.D.9	9	
ERC40PA.D.10	10	
ERC40PA.D.11	11	
ERC40PA.D.12	12	
ERC40PA.D.13	13	
ERC40PA.D.14	14	
ERC40PA.D.15	15	
ERC40PA.D.16	16	

Pinze ERT a cambio rapido e trazione

Quick change and traction ERT collets

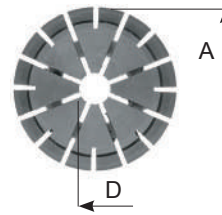
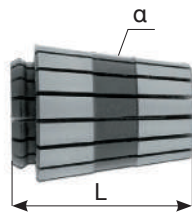

ERT

CODICE	DIN 371	Ød2	L	Ød3	SQUARE QUADRO	TRAZIONE	EUR
9.ERT25 2.8 x 2.1	M2.5	25	17.5	2.8	2.1	8	
9.ERT25 3.5 x 2.7	M3			3.5	2.7		
9.ERT25 4.5 x 3.4	M4			4.5	3.4		
9.ERT25 5 x 4	M5			5	4		
9.ERT25 6 x 4.9	M6			6	4.9		
9.ERT25 6.3 x 5	M6			6.3	5		
9.ERT25 7 x 5.5	M10			7	5.5		
9.ERT25 7.1 x 5.6	M7			7.1	5.6		
9.ERT25 8 x 6.2	M8			8	6.2		
9.ERT25 8 x 6.3	M8			8	6.3		
9.ERT25 9 x 7.1	M9			9	7.1		
9.ERT25 9 x 7	M12			9	7		
9.ERT32 2.8 x 2.1	M2.5	32	18.5	2.8	2.1	10	
9.ERT32 3.5 x 2.7	M3			3.5	2.7		
9.ERT32 4.5 x 3.4	M4			4.5	3.4		
9.ERT32 5 x 4	M5			5	4		
9.ERT32 6 x 4.9	M6			6.5	4.9		
9.ERT32 6.3 x 5	M6			6.3	5		
9.ERT32 7 x 5.5	M12			7	5.5		
9.ERT32 7.1 x 5.6	M7			7.1	5.6		
9.ERT32 8 x 6.2	M8			8	6.2		
9.ERT32 8 x 6.3	M8			8	6.3		
9.ERT32 9 x 7	M12			9	7		
9.ERT32 9 x 7.1	M9			9	7.1		
9.ERT32 10 x 8	M10			10	8		
9.ERT32 11 x 9	M14			11	9		

Pinze ERF a cambio rapido
 Quick change ERF collets

ERF

CODICE	DIN 371	Ød2	L	Ød3	SQUARE QUADRO	EUR
9.ERF25 2.8 x 2.1	M2.5	25	17.5	2.8	2.1	
9.ERF25 3.5 x 2.7	M3			3.5	2.7	
9.ERF25 4.5 x 3.4	M4			4.5	3.4	
9.ERF25 5 x 4	M5			5	4	
9.ERF25 6 x 4.9	M6			6	4.9	
9.ERF25 6.3 x 5	M6			6.3	5	
9.ERF25 7 x 5.5	M10			7	5.5	
9.ERF25 7.1 x 5.6	M7			7.1	5.6	
9.ERF25 8 x 6.2	M8			8	6.2	
9.ERF25 8 x 6.3	M8			8	6.3	
9.ERF25 9 x 7.1	M9			9	7.1	
9.ERF25 9 x 7	M12			9	7	
9.ERF32 2.8 x 2.1	M2.5			32	18.5	2.8
9.ERF32 3.5 x 2.7	M3	3.5	2.7			
9.ERF32 4.5 x 3.4	M4	4.5	3.4			
9.ERF32 5 x 4	M5	5	4			
9.ERF32 6 x 4.9	M6	6	4.9			
9.ERF32 6.3 x 5	M6	6.3	5			
9.ERF32 7 x 5.5	M12	7	5.5			
9.ERF32 7.1 x 5.6	M7	7.1	5.6			
9.ERF32 8 x 6.2	M8	8	6.2			
9.ERF32 8 x 6.3	M8	8	6.3			
9.ERF32 9 x 7	M12	9	7			
9.ERF32 9 x 7.1	M9	9	7.1			
9.ERF32 10 x 8	M10	10	8			
9.ERF32 11 x 9	M14	11	9			

Pinze
Collets



ERCD

CODICE	D mm min-max	CAPACITÀ DI SERRAGGIO mm	A	α AT3	L
ERCD16	1 ÷ 10	0.5 ÷ 1 mm	17	8°	24
ERCD20	1 ÷ 13	0.5 ÷ 1 mm	21	8°	30.5
ERCD25	1 ÷ 16	0.5 ÷ 1 mm	26	8°	34
ERCD32	2 ÷ 20	0.5 ÷ 1 mm	33	8°	40
ERCD40	3 ÷ 30	1 mm	41	8°	46

Tolleranza della rotazione delle pinze ERCD

ERCD collet concentricity specification

d1 - h5		l12	S max
Minimo	Massimo		
mm	mm	mm	mm
1	1.6	6	0.010
1.6	3	10	0.010
3	7	16	0.010
7	10	25	0.010
10	18	40	0.015
18	26	50	0.015
26	40	60	0.015

- Il valore della concentricità si controlla sul Ø nominale delle pinze.
- This runout accuracy is valid only for the nominal size of the collets.
- Si montano sui mandrini portapinza ISO DIN 15488 (ER – ERC) utilizzando l'apposita ghiera ETS.
- La ghiera chiudipinza del sistema ETS lavora sul piano anteriore della pinza (fig.1) riducendo l'errore di concentricità e rendendo la forza di serraggio uniforme su tutta la lunghezza di presa pinza
- Adaptable to all toolholders that mount ER /ERC collets by using ETS nuts.
- ETS nut works axially on collets flat (Fig.1) increasing precision and uniforming clamping force on whole length of bore.

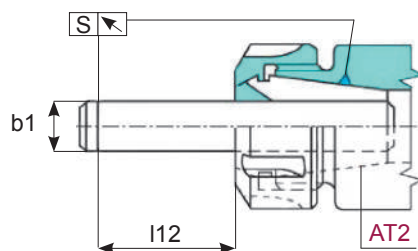
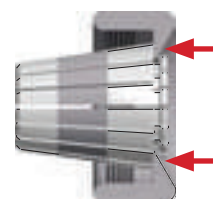


Fig. 1



Pinze di precisione
Precision collets

Pinze di precisione
Precision collets



ERCD16

↗ 0,010

CODICE	CAPACITÀ			EUR
ERCD16.D.2	2	÷	1	
ERCD16.D.3	3	÷	2	
ERCD16.D.4	4	÷	3	
ERCD16.D.5	5	÷	4	
ERCD16.D.6	6	÷	5	
ERCD16.D.7	7	÷	6	
ERCD16.D.8	8	÷	7	
ERCD16.D.9	9	÷	8	
ERCD16.D.10	10	÷	9	

ERCD20

↗ 0,010

CODICE	CAPACITÀ			EUR
ERCD20.D.2	2	÷	1	
ERCD20.D.3	3	÷	2	
ERCD20.D.4	4	÷	3	
ERCD20.D.5	5	÷	4	
ERCD20.D.6	6	÷	5	
ERCD20.D.7	7	÷	6	
ERCD20.D.8	8	÷	7	
ERCD20.D.9	9	÷	8	
ERCD20.D.10	10	÷	9	
ERCD20.D.11	11	÷	10	
ERCD20.D.12	12	÷	11	
ERCD20.D.13	13	÷	12	

Cassetta per pinze / Kit in Box

Cassetta per pinze / Kit in Box

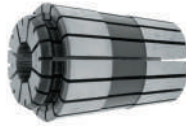
CODICE	EUR
BX.ERCD16-10	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	

CODICE	EUR
BX.ERCD20-12	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	



Pinze di precisione
Precision collets

Pinze di precisione
Precision collets



ERCD25

↗ 0,010

CODICE	CAPACITÀ			EUR
ERCD25.D.3	3	÷	2	
ERCD25.D.4	4	÷	3	
ERCD25.D.5	5	÷	4	
ERCD25.D.6	6	÷	5	
ERCD25.D.7	7	÷	6	
ERCD25.D.8	8	÷	7	
ERCD25.D.9	9	÷	8	
ERCD25.D.10	10	÷	9	
ERCD25.D.11	11	÷	10	
ERCD25.D.12	12	÷	11	
ERCD25.D.13	13	÷	12	
ERCD25.D.14	14	÷	13	
ERCD25.D.15	15	÷	14	
ERCD25.D.16	16	÷	15	

ERCD32

↗ 0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
ERCD32.D.3	3	÷	2	
ERCD32.D.4	4	÷	3	
ERCD32.D.5	5	÷	4	
ERCD32.D.6	6	÷	5	
ERCD32.D.7	7	÷	6	
ERCD32.D.8	8	÷	7	
ERCD32.D.9	9	÷	8	
ERCD32.D.10	10	÷	9	
ERCD32.D.11	11	÷	10	
ERCD32.D.12	12	÷	11	
ERCD32.D.13	13	÷	12	
ERCD32.D.14	14	÷	13	
ERCD32.D.15	15	÷	14	
ERCD32.D.16	16	÷	15	
ERCD32.D.17	17	÷	16	
ERCD32.D.18	18	÷	17	
ERCD32.D.19	19	÷	18	
ERCD32.D.20	20	÷	19	

Cassetta per pinze / Kit in Box

Cassetta per pinze / Kit in Box

CODICE	EUR
BX.ERCD25-15	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	
D. 14 - 15 - 16	

CODICE	EUR
BX.ERCD32-18	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	
D. 14 - 15 - 16 - 17 - 18 - 19 - 20	



* ERCD = Compatibile con pinze ERC DIN/6499

Pinze di precisione
Precision collets



ERCD40

∇0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
ERCD40.D.4	4	÷	3	
ERCD40.D.5	5	÷	4	
ERCD40.D.6	6	÷	5	
ERCD40.D.7	7	÷	6	
ERCD40.D.8	8	÷	7	
ERCD40.D.9	9	÷	8	
ERCD40.D.10	10	÷	9	
ERCD40.D.11	11	÷	10	
ERCD40.D.12	12	÷	11	
ERCD40.D.13	13	÷	12	
ERCD40.D.14	14	÷	13	

CODICE	CAPACITÀ			EUR
ERCD40.D.15	15	÷	14	
ERCD40.D.16	16	÷	15	
ERCD40.D.17	17	÷	16	
ERCD40.D.18	18	÷	17	
ERCD40.D.19	19	÷	18	
ERCD40.D.20	20	÷	19	
ERCD40.D.21	21	÷	20	
ERCD40.D.22	22	÷	21	
ERCD40.D.23	23	÷	22	
ERCD40.D.24	24	÷	23	
ERCD40.D.25	25	÷	24	
ERCD40.D.26	26	÷	25	

* ERCD = Compatibile con pinze ERC DIN/6499

Ghiere MINI
NUTS MINI

CODICE	E	M x P	*Nm	EUR
G16ETSM	22	M19x1	12 ÷ 24	
G20ETSM	28	M24x1	16 ÷ 28	
G25ETSM	34	M30x1	22 ÷ 32	



Ghiere STANDARD
NUTS STANDARD

CODICE	D	M x P	*Nm	EUR
G16ETS	32	M22x1.5	15 ÷ 50	
G20ETS	35	M25x1.5	16 ÷ 75	
G25ETS	42	M32x1.5	25 ÷ 100	
G32ETS	50	M40x1.5	25 ÷ 140	
G40ETS	63	M50x1.5	60 ÷ 170	



Chiavi STANDARD
STANDARD wrenches

CODICE	EUR
CH16S	
CH20S	
CH25S	
CH32S	
CH40S	

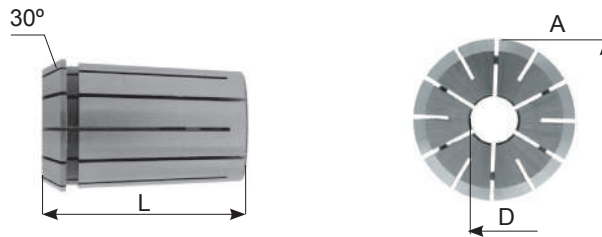


Chiavi per Ghiere esagonali
Wrenches for Hexagonal nuts

CODICE	EUR
CH.E14	
CH.E17	
CH.E19	
CH.E22	
CH.E25	
CH.E27	
CH.E28	
CH.E30	
CH.E32	
CH.E34	
CH.E38	



Pinze
Collets



EOC

CODICE	D mm min-max	CAPACITÀ DI SERRAGGIO mm	A	L
EOC6B - 400E	1 ÷ 6	0.5 mm	11.50	21
EOC8B - 401E	1 ÷ 8	0.5 mm	14.50	26
EOC10B - 404E	1 ÷ 10	0.5 mm	17.20	30
EOC12B - 407E	1 ÷ 12	0.5 mm	19.80	34
EOC16B - 415E	2 ÷ 16	0.5 mm	25.50	40
EOC20B - 4541E	2 ÷ 20	0.5 mm	29.80	45
EOC25B - 462E	2 ÷ 25	0.5 mm	35.05	52
EOC32B - 467E	3 ÷ 32	0.5 mm	43.70	60
EOC40B - 468E	8 ÷ 40	0.5 mm	52.20	68

– Il grado di concentricità delle pinze EOC – DIN6388 B di precisione standard e contenuti in 0.010 – 0.015 mm.
Adate per lavorazioni in cui si richiede una maggior forza di chiusura rispetto alle DIN 6499.
Superficie finita con rugosità inferiore a Rz 2,5.

– Concentricity of Collets EOC System –DIN 6388 B is contained in 0.010 – 0.015 mm.
Recommended for application in which you require a greater clamping force than ER collet DIN 6499.
Surface finished Rz 2,5.

Pinze di precisione STANDARD
Standard precision collets



EOC16B

↗0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
EOC16B.D.2	2	÷	1.5	
EOC16B.D.3	3	÷	2.5	
EOC16B.D.4	4	÷	3.5	
EOC16B.D.5	5	÷	4.5	
EOC16B.D.6	6	÷	5.5	
EOC16B.D.7	7	÷	6.5	
EOC16B.D.8	8	÷	7.5	
EOC16B.D.9	9	÷	8.5	
EOC16B.D.10	10	÷	9.5	
EOC16B.D.11	11	÷	10.5	
EOC16B.D.12	12	÷	11.5	
EOC16B.D.13	13	÷	12.5	
EOC16B.D.14	14	÷	13.5	
EOC16B.D.15	15	÷	14.5	
EOC16B.D.16	16	÷	15.5	

EOC20B

↗0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
EOC20B.D.2	2	÷	1.5	
EOC20B.D.3	3	÷	2.5	
EOC20B.D.4	4	÷	3.5	
EOC20B.D.5	5	÷	4.5	
EOC20B.D.6	6	÷	5.5	
EOC20B.D.8	8	÷	7.5	
EOC20B.D.10	10	÷	9.5	
EOC20B.D.12	12	÷	11.5	
EOC20B.D.14	14	÷	13.5	
EOC20B.D.16	16	÷	15.5	
EOC20B.D.18	18	÷	17.5	
EOC20B.D.20	20	÷	19.5	

Kit di pinze / Kit in Tray

CODICE	EUR
TY.EOC16B-15	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	
D. 14 - 15 - 16	



Kit di pinze / Kit in Tray

CODICE	EUR
TY.EOC20B-12	
D. 2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.EOC16B-15	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	
D. 14 - 15 - 16	



Cassetta per pinze / Kit in Box

CODICE	EUR
BX.EOC20B-12	
D. 2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20	



Pinze di precisione STANDARD
Standard precision collets



EOC25B

✓0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
EOC25B.D.2	2	÷	1.5	
EOC25B.D.3	3	÷	2.5	
EOC25B.D.4	4	÷	3.5	
EOC25B.D.5	5	÷	4.5	
EOC25B.D.6	6	÷	5.5	
EOC25B.D.7	7	÷	6.5	
EOC25B.D.8	8	÷	7.5	
EOC25B.D.9	9	÷	8.5	
EOC25B.D.10	10	÷	9.5	
EOC25B.D.11	11	÷	10.5	
EOC25B.D.12	12	÷	11.5	
EOC25B.D.13	13	÷	12.5	
EOC25B.D.14	14	÷	13.5	
EOC25B.D.15	15	÷	14.5	
EOC25B.D.16	16	÷	15.5	
EOC25B.D.17	17	÷	16.5	
EOC25B.D.18	18	÷	17.5	
EOC25B.D.19	19	÷	18.5	
EOC25B.D.20	20	÷	19.5	
EOC25B.D.21	21	÷	20.5	
EOC25B.D.22	22	÷	21.5	
EOC25B.D.23	23	÷	22.5	
EOC25B.D.24	24	÷	23.5	
EOC25B.D.25	25	÷	24.5	

EOC32B

✓0,010 ÷ 0,015

CODICE	CAPACITÀ			EUR
EOC32B.D.3	3	÷	2.5	
EOC32B.D.4	4	÷	3.5	
EOC32B.D.5	5	÷	4.5	
EOC32B.D.6	6	÷	5.5	
EOC32B.D.7	7	÷	6.5	
EOC32B.D.8	8	÷	7.5	
EOC32B.D.9	9	÷	8.5	
EOC32B.D.10	10	÷	9.5	
EOC32B.D.11	11	÷	10.5	
EOC32B.D.12	12	÷	11.5	
EOC32B.D.13	13	÷	12.5	
EOC32B.D.14	14	÷	13.5	
EOC32B.D.15	15	÷	14.5	
EOC32B.D.16	16	÷	15.5	
EOC32B.D.17	17	÷	16.5	
EOC32B.D.18	18	÷	17.5	
EOC32B.D.19	19	÷	18.5	
EOC32B.D.20	20	÷	19.5	
EOC32B.D.21	21	÷	20.5	
EOC32B.D.22	22	÷	21.5	
EOC32B.D.23	23	÷	22.5	
EOC32B.D.24	24	÷	23.5	
EOC32B.D.25	25	÷	24.5	
EOC32B.D.26	26	÷	25.5	
EOC32B.D.27	27	÷	26.5	
EOC32B.D.28	28	÷	27.5	
EOC32B.D.29	29	÷	28.5	
EOC32B.D.30	30	÷	29.5	
EOC32B.D.31	31	÷	30.5	
EOC32B.D.32	32	÷	31.5	

Cassetta per pinze / Kit in Box

CODICE	EUR
TY.EOC25B-24 KIT Fig. 1	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	
D. 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22	
D. 23 - 24 - 25	
BX.EOC25B-24 BOX Fig. 2	
D. 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	
D. 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22	
D. 23 - 24 - 25	

Cassetta per pinze / Kit in Box

CODICE	EUR
BX.EOC32B-31 BOX Fig. 2	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	
D. 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24	
D. 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32	



Pinze di precisione STANDARD

Standard precision collets


EOC40B
 $\nabla 0,010 \div 0,015$

CODICE	CAPACITÀ			EUR
EOC40B.D.8	8	÷	7.5	
EOC40B.D.9	9	÷	8.5	
EOC40B.D.10	10	÷	9.5	
EOC40B.D.11	11	÷	10.5	
EOC40B.D.12	12	÷	11.5	
EOC40B.D.13	13	÷	12.5	
EOC40B.D.14	14	÷	13.5	
EOC40B.D.15	15	÷	14.5	
EOC40B.D.16	16	÷	15.5	
EOC40B.D.17	17	÷	16.5	
EOC40B.D.18	18	÷	17.5	
EOC40B.D.19	19	÷	18.5	
EOC40B.D.20	20	÷	19.5	
EOC40B.D.21	21	÷	20.5	
EOC40B.D.22	22	÷	21.5	
EOC40B.D.23	23	÷	22.5	
EOC40B.D.24	24	÷	23.5	

CODICE	CAPACITÀ			EUR
EOC40B.D.25	25	÷	24.5	
EOC40B.D.26	26	÷	25.5	
EOC40B.D.27	27	÷	26.5	
EOC40B.D.28	28	÷	27.5	
EOC40B.D.29	29	÷	28.5	
EOC40B.D.30	30	÷	29.5	
EOC40B.D.31	31	÷	30.5	
EOC40B.D.32	32	÷	31.5	
EOC40B.D.33	33	÷	32.5	
EOC40B.D.34	34	÷	33.5	
EOC40B.D.35	35	÷	34.5	
EOC40B.D.36	36	÷	35.5	
EOC40B.D.37	37	÷	36.5	
EOC40B.D.38	38	÷	37.5	
EOC40B.D.39	39	÷	38.5	
EOC40B.D.40	40	÷	39.5	

Pinze a tenuta del refrigerante con inserti in neoprene max 40 bar

EOC Watertight Collets max 40 bar


EOC12RF / 16RF / 20RF / 25RF / 32RF

CODICE	FAM	CAPACITÀ			D	L	CAPACITÀ DI SERRAGGIO
EOC12RF	2	1	÷	12	19.90	34	0.5 mm
EOC16RF		2	÷	16	25.50	40	
EOC20RF		3	÷	20	30.00	45	
EOC25RF		3	÷	25	35.05	52	
EOC32RF		4	÷	32	44.00	60	

Pinze EOC a tenuta del refrigerante
 Watertight EOC collets

EOC16MF / 20MF / 25MF / 32MF

↗ 0,010 ÷ 0,015

CODICE	FAM	CAPACITÀ			D	L	EUR
EOC16MF	2	Ø3.5	÷	Ø12	25.50	40	
EOC20MF		Ø3.5	÷	Ø16	30.00	45	
EOC25MF		Ø3.5	÷	Ø20	35.05	52	
EOC32MF		Ø3.5	÷	Ø28	44.00	60	

Ghiere senza sfere

Friction bearing nuts without

GOC

CODICE	FAM	D	M x P	Nm	EUR
GOC6	2	18	M14 x 1	-	
GOC8		26	M20 x 1.5	-	
GOC10		30	M22 x 1.5	-	
GOC12		35	M27 x 1.5	-	
G16OCC	1	43	M33 x 1.5	85	
G20OCC		50	M42 x 2.0	-	
G25OCC		60	M48 x 2.0	140	
G25OCL Filetto sinistro		60	M48 x 2.0	140	
G32OCC		72	M60 x 2.5	170	
G40OCC		85	M68 x 2.5		


Ghiere a sfere

Friction bearing nuts

GOC

CODICE	FAM	D	M x P	Nm	EUR
G16OCS	1	43	M33 x 1.5	130	
G25OCS		60	M48 x 2	200	
G32OCS		72	M60 x 2.5	220	

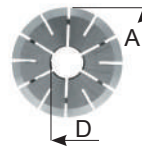
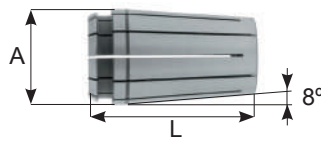

**Chiavi a settore
 per ghiere chiudipinza**

Hook wrenches for clamping nuts

CODICE	FAM	EUR
CH6GOC	2	
CH8GOC		
CH10GOC		
CH12GOC		
CH16GOC	1	
CH20GOC		
CH25GOC		
CH32GOC		
CH40GOC		



Pinze Tipo "TG"
"TG" Collets Type

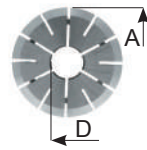
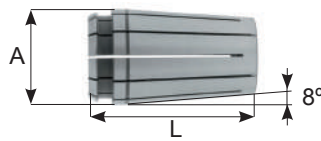


TG75

CODICE	FAM	A	L	CAPACITÀ DI SERRAGGIO	EUR
75TG030M					
75TG035M					
75TG040M					
75TG045M					
75TG050M					
75TG055M					
75TG060M					
75TG065M					
75TG070M					
75TG075M					
75TG080M					
75TG085M					
75TG090M					
75TG095M					
75TG100M					
75TG105M					
75TG110M					
75TG115M	4	27	46.9	0.5 mm	
75TG120M					
75TG125M					
75TG130M					
75TG135M					
75TG140M					
75TG145M					
75TG150M					
75TG155M					
75TG160M					
75TG165M					
75TG170M					
75TG175M					
75TG180M					
75TG185M					
75TG190M					
75TG195M					
75TG200M					

DISPONIBILI PINZE TG75 E TG100 IN HP
AVAILABLE COLLETS TG75 AND TG100 IN HP

Pinze Tipo "TG"
"TG" Collets Type

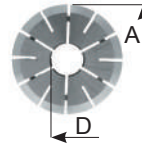
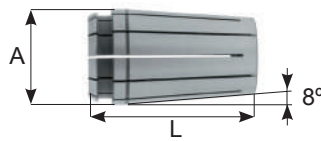


TG100

CODICE	FAM	A	L	CAPACITÀ DI SERRAGGIO	EUR
100TG030M					
100TG035M					
100TG040M					
100TG045M					
100TG050M					
100TG055M					
100TG060M					
100TG065M					
100TG070M					
100TG075M					
100TG080M					
100TG085M					
100TG090M					
100TG095M					
100TG100M					
100TG105M					
100TG110M					
100TG115M					
100TG120M					
100TG125M					
100TG130M					
100TG135M					
100TG140M	4	35	60.4	0.5 mm	
100TG145M					
100TG150M					
100TG155M					
100TG160M					
100TG165M					
100TG170M					
100TG175M					
100TG180M					
100TG185M					
100TG190M					
100TG195M					
100TG200M					
100TG205M					
100TG210M					
100TG215M					
100TG220M					
100TG225M					
100TG230M					
100TG235M					
100TG240M					
100TG245M					
100TG250M					

DISPONIBILI PINZE TG75 E TG100 IN HP
AVAILABLE COLLETS TG75 AND TG100 IN HP

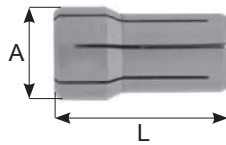
Pinze Tipo "TG"
"TG" Collets Type



TG150

CODICE	FAM	A	L	CAPACITÀ DI SERRAGGIO	EUR
150TG120M					
150TG130M					
150TG140M					
150TG145M					
150TG150M					
150TG160M					
150TG180M					
150TG190M					
150TG200M					
150TG205M					
150TG210M					
150TG220M					
150TG250M					
150TG255M					
150TG260M					
150TG265M					
150TG270M					
150TG275M					
150TG280M					
150TG285M					
150TG290M	4	50.08	76.2	0.5 mm	
150TG295M					
150TG300M					
150TG305M					
150TG310M					
150TG315M					
150TG320M					
150TG325M					
150TG330M					
150TG335M					
150TG340M					
150TG345M					
150TG350M					
150TG355M					
150TG360M					
150TG365M					
150TG375M					
150TG380M					
150TG385M					
150TG390M					
150TG395M					
150TG400M					

DISPONIBILI PINZE TG75 E TG100 IN HP
AVAILABLE COLLETS TG75 AND TG100 IN HP

Pinze Tipo "DA"
 "DA" Collets Type


CODICE	FAM	CAPACITÀ			A	L	CAPACITÀ DI SERRAGGIO
DA300-416E	1-2	1.5	÷	6.0	9.52	25.4	0.5 mm
DA200-417E		1.5	÷	10.0	13.69	30	
DA100-418E		2.0	÷	14.5	19.53	36.3	
DA180-419E		2.0	÷	20.0	26.03	41.4	

DA

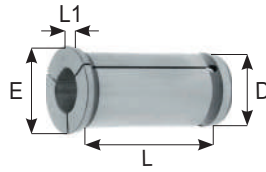
CODICE	FAM	CAPACITÀ			A	L	CAPACITÀ DI SERRAGGIO	EUR
DA300.D1	1-2	1.5	÷	6.0	9.52	25.4	0.5 mm	
DA300.D1.5								
DA300.D2								
DA300.D2.5								
DA300.D3								
DA300.D3.5								
DA300.D4								
DA300.D4.5								
DA300.D5								
DA300.D5.5								
DA300.D6								
DA200.D1	1-2	1.5	÷	10.0	13.69	30	0.5 mm	
DA200.D1.5								
DA200.D2								
DA200.D2.5								
DA200.D3								
DA200.D3.5								
DA200.D4								
DA200.D4.5								
DA200.D5								
DA200.D5.5								
DA200.D6								
DA200.D6.5								
DA200.D7								
DA200.D7.5								
DA200.D8								
DA200.D8.5								
DA200.D9								
DA200.D9.5								
DA200.D10								

DA

CODICE	FAM	CAPACITÀ			A	L	CAPACITÀ DI SERRAGGIO	EUR
DA100.D2	1-2	2.0	÷	14.5	19.53	36.3	0.5 mm	
DA100.D2.5								
DA100.D3								
DA100.D3.5								
DA100.D4								
DA100.D4.5								
DA100.D5								
DA100.D5.5								
DA100.D6								
DA100.D6.5								
DA100.D7								
DA100.D7.5								
DA100.D8								
DA100.D8.5								
DA100.D9								
DA100.D9.5								
DA100.D10								
DA100.D10.5								
DA100.D11								
DA100.D11.5								
DA100.D12								
DA100.D12.5								
DA100.D13								
DA100.D13.5								
DA100.D14								
DA100.D14.5								
DA180.D2	1-2	2.0	÷	2.0	26.03	41.4	0.5 mm	
DA180.D2.5								
DA180.D3								
DA180.D3.5								
DA180.D4								
DA180.D4.5								
DA180.D5								
DA180.D5.5								
DA180.D6								
DA180.D6.5								
DA180.D7								
DA180.D7.5								
DA180.D8								
DA180.D8.5								
DA180.D9								
DA180.D9.5								
DA180.D10								
DA180.D10.5								
DA180.D11								
DA180.D11.5								
DA180.D12								
DA180.D12.5								
DA180.D13								
DA180.D13.5								
DA180.D14								
DA180.D14.5								
DA180.D15								
DA180.D15.5								
DA180.D16								
DA180.D16.5								
DA180.D17								
DA180.D17.5								
DA180.D18								
DA180.D18.5								
DA180.D19								
DA180.D19.5								
DA180.D20								

Pinze cilindriche per mandrini a forte serraggio

Collets for power milling chucks


3RS20

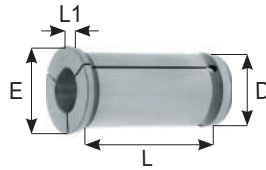
CODICE	FAM	D	E	L	L1	EUR
3SR20.D.3						
3SR20.D.4						
3SR20.D.5						
3SR20.D.6						
3SR20.D.7						
3SR20.D.8						
3SR20.D.9						
3SR20.D.10	2	20	25	50	5	
3SR20.D.11						
3SR20.D.12						
3SR20.D.13						
3SR20.D.14						
3SR20.D.15						
3SR20.D.16						
3SR20.D.17						
3SR20.D.18						

3RS25

CODICE	FAM	D	E	L	L1	EUR
3SR25.D.3						
3SR25.D.4						
3SR25.D.5						
3SR25.D.6						
3SR25.D.7						
3SR25.D.8						
3SR25.D.9						
3SR25.D.10						
3SR25.D.11						
3SR25.D.12						
3SR25.D.13	2	25	30	55	5	
3SR25.D.14						
3SR25.D.15						
3SR25.D.16						
3SR25.D.17						
3SR25.D.18						
3SR25.D.19						
3SR25.D.20						
3SR25.D.21						
3SR25.D.22						
3SR25.D.23						

Pinze cilindriche per mandrini a forte serraggio

Collets for power milling chucks

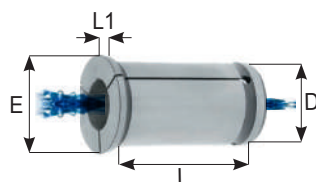


3SR32

CODICE	FAM	D	E	L	L1	EUR
3SR32.D.3						
3SR32.D.4						
3SR32.D.5						
3SR32.D.6						
3SR32.D.7						
3SR32.D.8						
3SR32.D.9						
3SR32.D.10						
3SR32.D.11						
3SR32.D.12						
3SR32.D.13						
3SR32.D.14						
3SR32.D.15						
3SR32.D.16	2	32	37	60	5	
3SR32.D.17						
3SR32.D.18						
3SR32.D.19						
3SR32.D.20						
3SR32.D.21						
3SR32.D.22						
3SR32.D.23						
3SR32.D.24						
3SR32.D.25						
3SR32.D.26						
3SR32.D.27						
3SR32.D.28						
3SR32.D.29						
3SR32.D.30						

Pinze cilindriche a forte serraggio idrauliche a tenuta refrigerante

Collets for hydraulic expansion chucks



4SR20

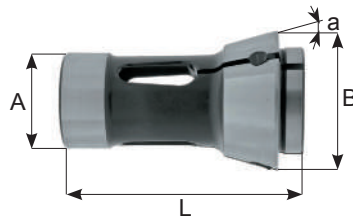
CODICE	FAM	D	E	L	L1	EUR
4SR20.D.4						
4SR20.D.5						
4SR20.D.6						
4SR20.D.8	1	20	25	50	5	
4SR20.D.10						
4SR20.D.12						
4SR20.D.16						

4SR32

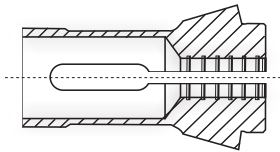
CODICE	FAM	D	E	L	L1	EUR
4SR32.D.6						
4SR32.D.8						
4SR32.D.10						
4SR32.D.12	1	32	37	64	5	
4SR32.D.16						
4SR32.D.20						
4SR32.D.25						

Pinze DIN/6343

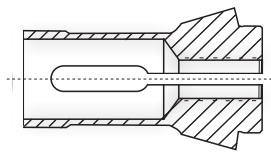
Collets for Single - Spindle lathes



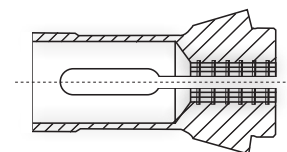
Tipo (Rigato)
Type (Grooved)



Tipo "L" (Liscio)
Type "L" (Smooth)

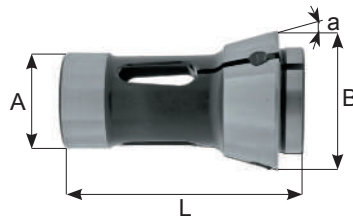


Tipo "S" (Filettato)
Type "S" (Serrated)

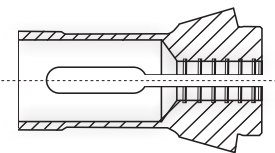


TIPO	D	E	Q	A	B	L	a
140E	3÷16	4÷14	6÷12	22	30	55	15°
161E	3÷25	4÷22	4÷18	32	45	75	
173E	4÷42	5÷36	8÷30	48	60	94	
177E	6÷52			58	70	94	
185E	5÷60	10÷45	10÷40	66	84	110	

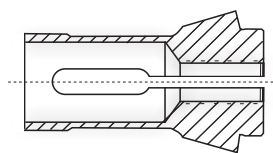
Pinze DIN/6343
Workholding collets



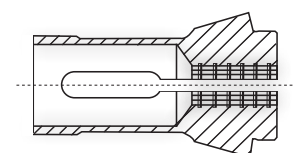
Tipo (Rigato)
Type (Grooved)



Tipo "L" (Liscio)
Type "L" (Smooth)



Tipo "S" (Filettato)
Type "S" (Serrated)

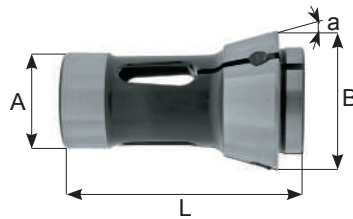


CODICE	EUR
140E.D1L	
140E.D2L	
140E.D3L	
140E.D4L	
140E.D5L	
140E.D6L	
140E.D7L	
140E.D8R	
140E.D9R	
140E.D10R	
140E.D11R	
140E.D12R	
140E.D13R	
140E.D14R	
140E.D15R	
140E.D16R	
140E.D17R	
140E.D18R	

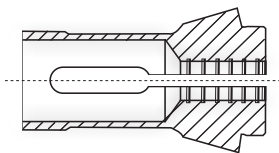
CODICE	EUR
140E.E4	
140E.E5	
140E.E6	
140E.E7	
140E.E8	
140E.E9	
140E.E10	
140E.E11	
140E.E12	
140E.E13	
140E.E14	
140E.E15	

CODICE	EUR
140E.Q4	
140E.Q5	
140E.Q6	
140E.Q7	
140E.Q8	
140E.Q9	
140E.Q10	
140E.Q11	
140E.Q12	

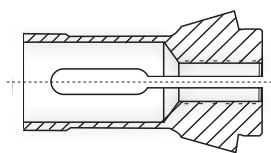
Pinze DIN/6343
Workholding collets



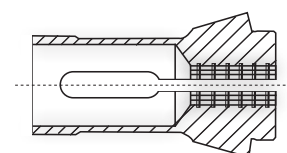
Tipo (Rigato)
Type (Grooved)



Tipo "L" (Liscio)
Type "L" (Smooth)



Tipo "S" (Filettato)
Type "S" (Serrated)

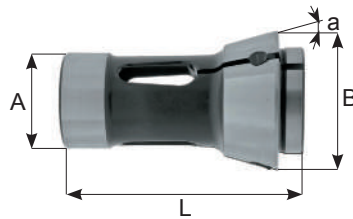


CODICE	EUR
161E.D1L	
161E.D2L	
161E.D3L	
161E.D4L	
161E.D5L	
161E.D6L	
161E.D7L	
161E.D8R	
161E.D9R	
161E.D10R	
161E.D11R	
161E.D12R	
161E.D13R	
161E.D14R	
161E.D15R	
161E.D16R	
161E.D17R	
161E.D18R	
161E.D20R	
161E.D21R	
161E.D22R	
161E.D23R	
161E.D24R	
161E.D25R	
161E.D26R	
161E.D27R	

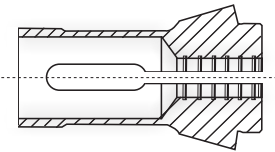
CODICE	EUR
161E.E4	
161E.E5	
161E.E6	
161E.E7	
161E.E8	
161E.E9	
161E.E10	
161E.E11	
161E.E12	
161E.E13	
161E.E14	
161E.E15	
161E.E16	
161E.E17	
161E.E18	
161E.E19	
161E.E20	
161E.E21	
161E.E22	

CODICE	EUR
161E.Q4	
161E.Q5	
161E.Q6	
161E.Q7	
161E.Q8	
161E.Q9	
161E.Q10	
161E.Q11	
161E.Q12	
161E.Q13	
161E.Q14	
161E.Q15	
161E.Q16	
161E.Q17	
161E.Q18	
161E.Q19	
161E.Q20	
161E.Q21	
161E.Q22	

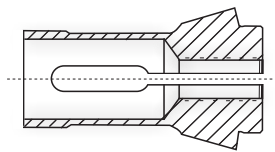
Pinze DIN/6343
Workholding collets



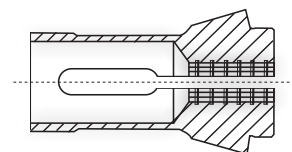
Tipo (Rigato)
Type (Grooved)



Tipo "L" (Liscio)
Type "L" (Smooth)



Tipo "S" (Filettato)
Type "S" (Serrated)



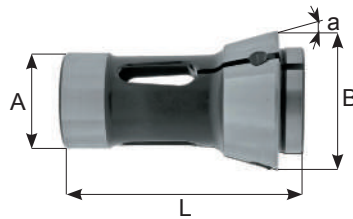
CODICE	EUR
173E.D3L	
173E.D4L	
173E.D5L	
173E.D6L	
173E.D7L	
173E.D8R	
173E.D9R	
173E.D10R	
173E.D11R	
173E.D12R	
173E.D13R	
173E.D14R	
173E.D15R	
173E.D16R	
173E.D17R	
173E.D18R	
173E.D19R	
173E.D20R	
173E.D21R	
173E.D22R	
173E.D23R	
173E.D24R	
173E.D25R	
173E.D26R	
173E.D27R	
173E.D28R	
173E.D29R	
173E.D30R	
173E.D31R	
173E.D32R	
173E.D33R	
173E.D34R	
173E.D35R	
173E.D36R	
173E.D37R	
173E.D38R	
173E.D39R	
173E.D40R	
173E.D41R	
173E.D42R	

CODICE	EUR
173E.E4	
173E.E5	
173E.E6	
173E.E7	
173E.E8	
173E.E9	
173E.E10	
173E.E11	
173E.E12	
173E.E13	
173E.E14	
173E.E15	
173E.E16	
173E.E17	
173E.E18	
173E.E19	
173E.E20	
173E.E21	
173E.E22	
173E.E23	
173E.E24	
173E.E25	
173E.E26	
173E.E27	
173E.E28	
173E.E29	
173E.E30	
173E.E31	
173E.E32	
173E.E33	
173E.E34	
173E.E35	
173E.E36	

CODICE	EUR
173E.Q4	
173E.Q5	
173E.Q6	
173E.Q7	
173E.Q8	
173E.Q9	
173E.Q10	
173E.Q11	
173E.Q12	
173E.Q13	
173E.Q14	
173E.Q15	
173E.Q16	
173E.Q17	
173E.Q18	
173E.Q19	
173E.Q20	
173E.Q21	
173E.Q22	
173E.Q23	
173E.Q24	
173E.Q25	
173E.Q26	
173E.Q27	
173E.Q28	
173E.Q29	
173E.Q30	

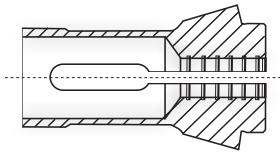
Pinze DIN/6343

Workholding collets



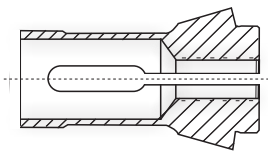
Tipo (Rigato)

Type (Grooved)



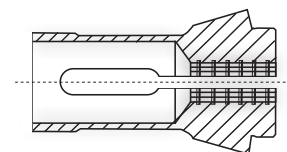
Tipo "L" (Liscio)

Type "L" (Smooth)



Tipo "S" (Filettato)

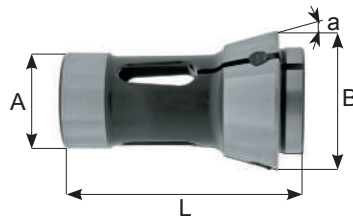
Type "S" (Serrated)



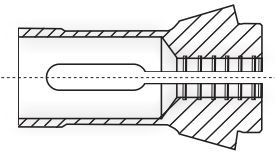
CODICE	EUR
177E.D5L	
177E.D6L	
177E.D7L	
177E.D8R	
177E.D9R	
177E.D10R	
177E.D11R	
177E.D12R	
177E.D13R	
177E.D14R	
177E.D15R	
177E.D16R	
177E.D17R	
177E.D18R	
177E.D19R	
177E.D20R	
177E.D21R	
177E.D22R	
177E.D23R	
177E.D24R	
177E.D25R	
177E.D26R	
177E.D27R	
177E.D28R	
177E.D29R	
177E.D30R	
177E.D31R	
177E.D32R	
177E.D33R	
177E.D34R	
177E.D35R	
177E.D36R	
177E.D37R	
177E.D38R	
177E.D39R	

CODICE	EUR
177E.D40R	
177E.D41R	
177E.D42R	
177E.D43R	
177E.D44R	
177E.D45R	
177E.D46R	
177E.D47R	
177E.D48R	
177E.D49R	
177E.D50R	
177E.D51R	
177E.D52R	

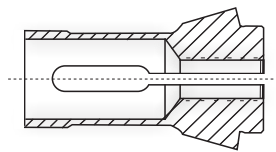
Pinze DIN/6343
Workholding collets



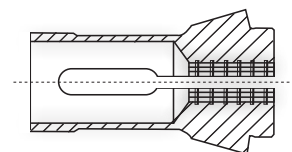
Tipo (Rigato)
Type (Grooved)



Tipo "L" (Liscio)
Type "L" (Smooth)



Tipo "S" (Filettato)
Type "S" (Serrated)

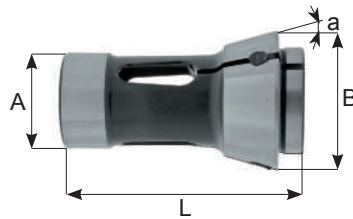


CODICE	EUR
185E.D6L	
185E.D7L	
185E.D8R	
185E.D9R	
185E.D10R	
185E.D11R	
185E.D12R	
185E.D13R	
185E.D14R	
185E.D15R	
185E.D16R	
185E.D17R	
185E.D18R	
185E.D19R	
185E.D20R	
185E.D21R	
185E.D22R	
185E.D23R	
185E.D24R	
185E.D25R	
185E.D26R	
185E.D27R	
185E.D28R	
185E.D29R	
185E.D30R	
185E.D31R	
185E.D32R	
185E.D33R	
185E.D34R	
185E.D35R	
185E.D36R	
185E.D37R	
185E.D38R	
185E.D39R	

CODICE	EUR
185E.D40R	
185E.D41R	
185E.D42R	
185E.D43R	
185E.D44R	
185E.D45R	
185E.D46R	
185E.D47R	
185E.D48R	
185E.D49R	
185E.D50R	
185E.D51R	
185E.D52R	
185E.D53R	
185E.D54R	
185E.D55R	
185E.D56R	
185E.D57R	
185E.D58R	
185E.D59R	
185E.D60R	

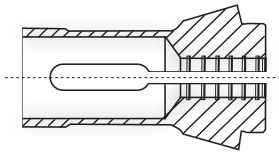
Pinze DIN/6343

Workholding collets



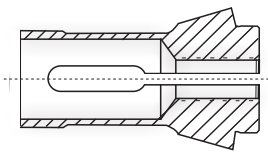
Tipo (Rigato)

Type (Grooved)



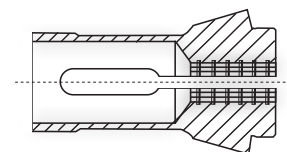
Tipo "L" (Liscio)

Type "L" (Smooth)



Tipo "S" (Filettato)

Type "S" (Serrated)



CODICE	EUR
185E.E10	
185E.E11	
185E.E12	
185E.E13	
185E.E14	
185E.E15	
185E.E16	
185E.E17	
185E.E18	
185E.E19	
185E.E20	
185E.E21	
185E.E22	
185E.E23	
185E.E24	
185E.E25	
185E.E26	
185E.E27	
185E.E28	
185E.E29	
185E.E30	
185E.E31	
185E.E32	
185E.E33	
185E.E34	
185E.E35	
185E.E36	
185E.E37	
185E.E38	
185E.E39	
185E.E40	
185E.E41	
185E.E42	
185E.E43	
185E.E44	
185E.E45	
185E.E46	
185E.E47	
185E.E48	
185E.E49	
185E.E50	
185E.E51	
185E.E52	

CODICE	EUR
185E.Q12	
185E.Q13	
185E.Q14	
185E.Q15	
185E.Q16	
185E.Q17	
185E.Q18	
185E.Q19	
185E.Q20	
185E.Q21	
185E.Q22	
185E.Q23	
185E.Q24	
185E.Q25	
185E.Q26	
185E.Q27	
185E.Q28	
185E.Q29	
185E.Q30	
185E.Q31	
185E.Q32	
185E.Q33	
185E.Q34	
185E.Q35	
185E.Q36	
185E.Q37	
185E.Q38	
185E.Q39	
185E.Q40	
185E.Q41	
185E.Q42	

Ghiere MINI
Mini ER nuts

Ghiere MINI

CODICE	D	M x P	*Nm	EUR
G8M	12	M10 x 0.75	5 ÷ 6	
G11M	16	M13 x 0.75	7 ÷ 17	
G16M	22	M19 x 1	12 ÷ 24	
G20M	28	M24 x 1	16 ÷ 28	
G25M	35	M30 x 1	22 ÷ 32	



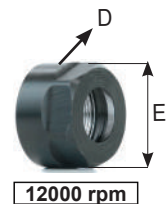
Ghiere MINI - Filetto sinistro

CODICE	D	M x P	*Nm	EUR
G11ML	16	M13 x 0.75	7 ÷ 17	
G16ML	22	M19 x 1.5	12 ÷ 24	
G20ML	28	M24 x 1.5	16 ÷ 28	
G25ML	35	M30 x 1.5	22 ÷ 32	



Ghiere MINI - Esagonali

CODICE	D	E	M x P	*Nm	EUR
G11MSE	16	14	M13 x 0.75	7 ÷ 17	
G16MSE	25	22	M19 x 1	12 ÷ 24	
G20MSE	30	27	M24 x 1	16 ÷ 28	
G25MSE	37	34	M30 x 1	22 ÷ 32	



Chiavi per ghiere MINI
Wrenches for MINI nuts

CODICE	EUR
CH8M	
CH11M	
CH16M	
CH20M	
CH25M	



Chiavi per Ghiere esagonali
Wrenches for Hexagonal nuts

CODICE	EUR
CH.E14	
CH.E17	
CH.E19	
CH.E22	
CH.E25	
CH.E27	
CH.E28	
CH.E30	
CH.E32	
CH.E34	
CH.E38	



* Nm = Forza di serraggio consigliata
Recommended tightening torque

Ghiere STANDARD
 Standard nuts

Ghiere STANDARD

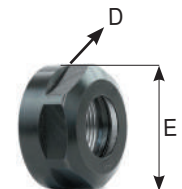
CODICE	D	M x P	*Nm	EUR
G16S	32	M22 x 1.5	15 ÷ 50	
G20S	35	M25 x 1.5	16 ÷ 75	
G25S	42	M32 x 1.5	25 ÷ 100	
G32S	50	M40 x 1.5	25 ÷ 140	
G40S	63	M50 x 1.5	60 ÷ 170	
G50S	78	M64 x 2	120 ÷ 250	
G32SL Filetto sinistro	50	M40 x 1.5	25 ÷ 120	
G40SL Filetto sinistro	63	M50 x 1.5	60 ÷ 170	



12000 rpm

Ghiere STANDARD - Esagonali

CODICE	D	E	M x P	*Nm	EUR
G11SE	19	17	M14 x 0.75	8 ÷ 24	
G16SE	28	25	M22 x 1.5	15 ÷ 50	
G20SE	34	30	M25 x 1.5	16 ÷ 75	
G25SE	42	38	M32 x 1.5	25 ÷ 100	
G16SEL Filetto sinistro	28	25	M22 x 1.5	15 ÷ 50	
G20SEL Filetto sinistro	34	30	M25 x 1.5	16 ÷ 75	



12000 rpm

Chiavi per ghiere STANDARD
 Wrenches for nuts STANDARD

CODICE	EUR
CH16S	
CH20S	
CH25S	
CH32S	
CH40S	
CH50S	


Chiavi per Ghiere esagonali
 Wrenches for Hexagonal nuts

CODICE	EUR
CH.E14	
CH.E17	
CH.E19	
CH.E22	
CH.E25	
CH.E27	
CH.E28	
CH.E30	
CH.E32	
CH.E34	
CH.E38	



* Nm = Forza di serraggio consigliata
 Recommended tightening torque

Ghiere STANDARD sfere

Friction bearing nuts

Ghiere STANDARD - A sfere

CODICE		D	M x P	*Nm	EUR
G16C	Fig. 1	32	M22 x 1.5	16 ÷ 55	
G20C	Fig. 1	35	M25 x 1.5	16 ÷ 80	
G25C	Fig. 1	42	M32 x 1.5	20 ÷ 110	
G32C	Fig. 1	50	M40 x 1.5	20 ÷ 140	
G40C	Fig. 1	63	M50 x 1.5	40 ÷ 180	
G50C	Fig. 1	78	M64 x 2	50 ÷ 200	
G60C	Fig. 2	83	M70 x 1.5	60 ÷ 240	



Chiavi per ghiera STANDARD

Wrenches for STANDARD nuts

CODICE	EUR
CH16S	
CH20S	
CH25S	
CH32S	
CH40S	



Chiavi a settore per ghiere SKS

Hook Wrenches for SKS nuts

CODICE	EUR
CH10SKS	
CH16SKS	
CH20SKS	
CH25SKS	



* Nm = Forza di serraggio consigliata
 Recommended tightening torque

Ghiere MINI per alta velocità

Mini nuts for high speed

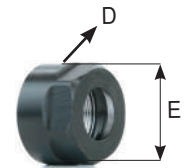
Ghiere MINI / Alta velocità

CODICE	D	M x P	*Nm	EUR
G16WDM	22	M19 x 1	12 ÷ 24	
G20WDM	28	M24 x 1	16 ÷ 28	
G25WDM	35	M30 x 1	22 ÷ 32	



Ghiere STANDARD - Esagonali / Alta velocità

CODICE	D	E	M x P	*Nm	EUR
G16WDE	28	25	M22 x 1.5	15 ÷ 50	
G20WDE	34	30	M25 x 1.5	16 ÷ 75	



Ghiere STANDARD / Alta velocità

CODICE	D	M x P	*Nm	EUR
G20WD	35	M25 x 1.5	16 ÷ 70	
G25WD	42	M32 x 1.5	25 ÷ 100	
G32WD	50	M40 x 1.5	25 ÷ 140	
G40WD	63	M50 x 1.5	60 ÷ 170	



Chiavi per ghiere MINI

Wrenches for MINI nuts

CODICE	EUR
CH16M	
CH20M	
CH25M	



Chiavi per Ghiere esagonali

Wrenches for Hexagonal nuts

CODICE	EUR
CH.E14	
CH.E17	
CH.E19	
CH.E22	
CH.E25	
CH.E27	
CH.E28	
CH.E30	
CH.E32	
CH.E34	
CH.E38	



Chiavi per ghiere STANDARD

Wrenches for STANDARD nuts

CODICE	EUR
CH20S	
CH25S	
CH32S	
CH40S	



* Nm = Forza di serraggio consigliata
 Recommended tightening torque

Ghiere MINI Pinze ER - Alta velocità

Notch-free MINI nuts for high speed

CODICE	D	M x P	*Nm	EUR
NF8M	12	M10 x 0.75	5 ÷ 6	
NF11M	16	M13 x 0.75	7 ÷ 17	
NF16M	24	M19 x 1	12 ÷ 24	
NF20M	30	M24 x 1	16 ÷ 28	
NF25M	37	M30 x 1	22 ÷ 32	



20000 rpm

Ghiere STANDARD Pinze ER - Alta velocità

Notch-free STANDARD nuts for high speed

CODICE	D	M x P	*Nm	EUR
NF16	32	M22 x 1.5	15 ÷ 50	
NF20	35	M25 x 1.5	16 ÷ 75	
NF25	42	M32 x 1.5	25 ÷ 100	
NF32	50	M40 x 1.5	25 ÷ 140	
NF40	63	M50 x 1.5	60 ÷ 170	



20000 rpm

**Chiavi dinamometriche a rulli
per ghiere MINI senza tacche**

Torque wrenches with rollers for notch-free MINI nuts

CODICE	EUR
CD8NFM	
CD11NFM	
CD16NFM	
CD20NFM	
CD25NFM	



**Chiavi dinamometriche a rulli
per ghiere**

Torque Wrenches with rollers for clamping nuts

CODICE	EUR
CD16NFR	
CD20NFR	
CD25NFR	
CD32NFR	
CD40NFR	



* Nm = Forza di serraggio consigliata
Recommended tightening torque

Ghiere MINI con disco di tenuta del refrigerante

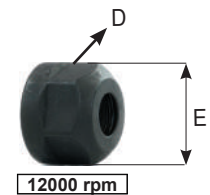
Nuts with seal disks Mini type

CODICE	D	M x P	*Nm	EUR
G16HTM	22	M19 x 1	12 ÷ 24	
G20HTM	28	M24 x 1	16 ÷ 28	
G25HTM	35	M30 x 1	22 ÷ 32	


Ghiere ESAGONALI con disco di tenuta del refrigerante

Nuts with seal disks esagonali type

CODICE	D	E	M x P	*Nm	EUR
G16HTE	28	25	M22 x 1.5	15 ÷ 50	
G20HTE	34	30	M25 x 1.5	16 ÷ 75	


Ghiere STANDARD con disco di tenuta del refrigerante

Nuts with seal disks STANDARD type

CODICE	D	M x P	*Nm	EUR
G25HT	42	M32 x 1.5	25 ÷ 100	
G32HT	50	M40 x 1.5	25 ÷ 140	
G40HT	63	M50 x 1.5	60 ÷ 170	


Dischi di tenuta del refrigerante

Sealed disc with viton-o-ring

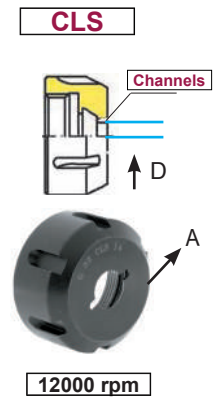
CODICE GHIERA	CODICE DISCO	RAGGIO	EUR
G16HTM / G16HTE	RG16 Ø3.5 - Ø10	x 1mm	
G20HTM / G20HTE	RG20 Ø4 - Ø13	x 1mm	
G25HTM / G25HT	RG25 Ø3.5 - Ø16	x 1mm	
G32HT	RG32 Ø3.5 - Ø20	x 1mm	
G40HT	RG40 Ø4 - Ø26	x 1mm	



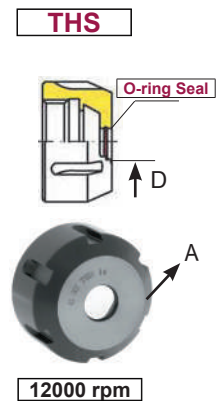
* Nm = Forza di serraggio consigliata
 Recommended tightening torque

Ghiere con canali di lubrificazione
 Nuts with coolant channels

CODICE	A	F	*Nm	EUR
G32CLS.D.4	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.5	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.6	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.7	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.8	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.9	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.10	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.11	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.12	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.13	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.14	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.15	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.16	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.17	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.18	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.19	50	M40 x 1.5	25 ÷ 140	
G32CLS.D.20	50	M40 x 1.5	25 ÷ 140	


Ghiere a tenuta del refrigerante
 Sealed nuts

CODICE	A	F	*Nm	EUR
G32THS.D.4	50	M40 x 1.5	25 ÷ 140	
G32THS.D.5	50	M40 x 1.5	25 ÷ 140	
G32THS.D.6	50	M40 x 1.5	25 ÷ 140	
G32THS.D.7	50	M40 x 1.5	25 ÷ 140	
G32THS.D.8	50	M40 x 1.5	25 ÷ 140	
G32THS.D.9	50	M40 x 1.5	25 ÷ 140	
G32THS.D.10	50	M40 x 1.5	25 ÷ 140	
G32THS.D.11	50	M40 x 1.5	25 ÷ 140	
G32THS.D.12	50	M40 x 1.5	25 ÷ 140	
G32THS.D.13	50	M40 x 1.5	25 ÷ 140	
G32THS.D.14	50	M40 x 1.5	25 ÷ 140	
G32THS.D.15	50	M40 x 1.5	25 ÷ 140	
G32THS.D.16	50	M40 x 1.5	25 ÷ 140	
G32THS.D.17	50	M40 x 1.5	25 ÷ 140	
G32THS.D.18	50	M40 x 1.5	25 ÷ 140	
G32THS.D.19	50	M40 x 1.5	25 ÷ 140	
G32THS.D.20	50	M40 x 1.5	25 ÷ 140	



* Nm = Forza di serraggio consigliata
 Recommended tightening torque

Ghiere con filetto esterno

Externally threaded nuts

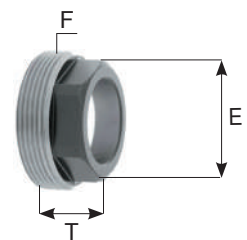
CODICE	M x P	T	EUR
G11A	M18 x 1	6	
G16A	M24 x 1	8	
G20A	M28 x 1.5	11	
G25A	M32 x 1.5	12	
G32A	M40 x 1.5	14	



Ghiere ESAGONALI con filetto esterno

Externally threaded EXAGONAL nuts

CODICE	M x P	E	T	EUR
G16A.EX19	M24 x 1	19	12	
G20A.EX22	M28 x 1.5	22	13	
G25A.EX27	M32 x 1.5	27	16.5	
G32A.EX32	M40 x 1.5	32	19	



Chiavi per ghiere con fori

Wrenches for nuts with holes

CODICE	EUR
CH11A	
CH16A	
CH20A	
CH25A	
CH32A	



Chiavi per ghiere con esagono

Wrenches for nuts with hexagon

CODICE	EUR
CH.E14	
CH.E17	
CH.E19	
CH.E22	
CH.E25	
CH.E27	
CH.E28	
CH.E30	
CH.E32	
CH.E34	
CH.E38	



Chiavi per ghiera MINI

Wrenches for MINI nuts

CODICE	EUR
CH8M	
CH11M	
CH16M	
CH20M	
CH25M	



Chiavi per ghiera con esagono

Wrenches for nuts with hexagon

CODICE	EUR
CH.E14	
CH.E17	
CH.E19	
CH.E22	
CH.E25	
CH.E27	
CH.E28	
CH.E30	
CH.E32	
CH.E34	
CH.E38	



Chiavi dinamometriche per ghiera STANDARD

Torque wrenches for clamping STANDARD nuts

CODICE	EUR
CD16S	
CD20S	
CD25S	
CD32S	
CD40S	



Chiavi dinamometriche per ghiera MINI

Torque wrenches for MINI nuts

CODICE	EUR
CD8M	
CD11M	
CD16M	
CD20M	
CD25M	



Chiavi dinamometriche per ghiera ESAGONALI

Wrenches for with HEXAGONAL nuts

CODICE	EUR
CD.E14	
CD.E17	
CD.E22	
CD.E25	
CD.E30	



Chiavi a settore per mandrini Portapunta

Hook Wrenches for drill chucks

CODICE	EUR
CH.DC8	
CH.DC10	
CH.DC13	
CH.DC16	



Chiavi dinamometriche a rulli per ghiera MINI

Torque wrenches with rollers for MINI nuts

CODICE	EUR
CD8NFM	
CD11NFM	
CD16NFM	
CD20NFM	
CD25NFM	



Chiavi per ghiera STANDARD

Wrenches for STANDARD nuts

CODICE	EUR
CH16S	
CH20S	
CH25S	
CH32S	
CH40S	
CH50S	



Chiavi dinamometriche a rulli per ghiera STANDARD

Torque wrenches with rollers for clamping STANDARD nuts

CODICE	EUR
CD16NF	
CD20NF	
CD25NF	
CD32NF	
CD40NF	



**Chiavi esagonali per mandrini
portapunta autoserranti**

Wrenches for drill chucks

CODICE	EX	MANDRINI	EUR
CH.EX4	4	CP8	
CH.EX5	5	HD8	
CH.EX6	6	HD13-HD16 CP13-CP16	



Cricchetto e bussole di serraggio dei tiranti

Quick ratchet and sockets for pull stud clamping



CODICE	FAM	EUR
CH.SKT	1	

Bussole per tiranti intercambiabili

Interchangeable socket

CODICE	FAM	SW	ISO	TIRANTE	EUR
SKT.DIN40	1	19	40	(DIN40)	
SKT.DIN50		30	50	(DIN50)	
SKT.CAT40		18	40	(CAT40)	
SKT.CAT50		30	50	(CAT50)	
SKT.BT40		19	40	(MAS403/BT)	
SKT.BT50		30	50	(MAS403/BT)	
SKT.JS40		19	40	(JIS/6339-B)	
SKT.JS50		30	50	(JIS/6339-B)	

Forza di serraggio consigliata

Recommended tightening torque



FORZA
G.M12 = 20÷25 Nm
G.M16 = 60÷80 Nm
G.M24 = 200÷250 Nm

Chiavi a settore per ghiera chiudipinza

Hook wrenches for clamping nuts

CODICE	MANDRINI	EUR
CHO16	45 - 50	
CHO20	45 - 50	
CHO25	58 - 62 - 65	
CHO32	68 - 70 - 75	
CHO40	80 - 85 - 90	



Chiavi a rulli per ghiera MINI senza tacche

Wrenches with rollers for notch-free MINI nuts

CODICE	EUR
CR8M	
CR11M	
CR16M	
CR20M	
CR25M	



**Chiavi a rulli per ghiera
STANDARD senza tacche**

Wrenches with rollers for
notch-free clamping nuts

CODICE	EUR
CR16	
CR20	
CR25	
CR32	
CR40	



Chiavi per ghiera con fori

Wrenches for nuts with holes

CODICE	EUR
CH11A	
CH16A	
CH20A	
CH25A	
CH32A	

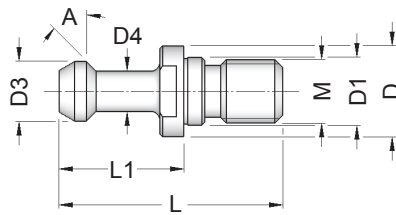


**Chiavi a settore
per ghiera SKS**

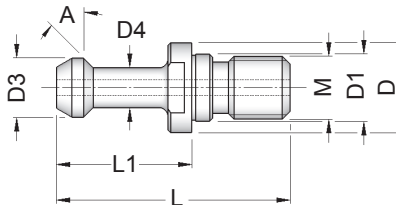
Hook Wrenches for SKS nuts

CODICE	EUR
CH10SKS	
CH16SKS	
CH20SKS	
CH25SKS	



Tiranti senza passaggio del refrigerante
 Without coolant hole (SOLID)

BT

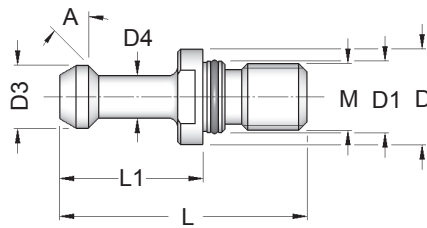
CODICE	FAM	A	M	L	L1	D	D1	D3	D4	EUR
BT30-30°	2	30°	M12	43	23	16.5	12.5	11.0	7.0	
BT30-45°		45°	M12	43	23	16.5	12.5	11.0	7.0	
BT30-60°	1	60°	M12	43	23	16.5	12.5	11.0	7.0	
BT40-30°	2	30°	M16	60	35	23.0	17.0	15.0	10.0	
BT40-45°		45°	M16	60	35	23.0	17.0	15.0	10.0	
BT40-60°	1	60°	M16	60	35	23.0	17.0	15.0	10.0	
BT40-90°	2	90°	M16	60	35	23.0	17.0	15.0	10.0	
BT50-30°	2	30°	M24	85	45	38.0	25.0	23.0	17.0	
BT50-45°		45°	M24	85	45	38.0	25.0	23.0	17.0	
BT50-60°	1	60°	M24	85	45	38.0	25.0	23.0	17.0	
BT50-90°	2	90°	M24	85	45	38.0	25.0	23.0	17.0	

Tiranti con passaggio del refrigerante
 With coolant hole (HOLLOW)

BT

CODICE	FAM	A	M	L	L1	D	D1	D3	D4	F	EUR
BT30-30°.F	2	30°	M12	43	23	16.5	12.5	11	7	2.5	
BT30-45°.F		45°	M12	43	23	16.5	12.5	11	7	2.5	
BT30-60°.F	1	60°	M12	43	23	16.5	12.5	11	7	2.5	
BT40-30°.F	2	30°	M16	60	35	23	17	15	10	4	
BT40-45°.F		45°	M16	60	35	23	17	15	10	4	
BT40-60°.F	1	60°	M16	60	35	23	17	15	10	4	
BT40-90°.F	2	90°	M16	60	35	23	17	15	10	4	
BT50-30°.F	2	30°	M24	85	45	38	25	23	17	6	
BT50-45°.F		45°	M24	85	45	38	25	23	17	6	
BT50-60°.F	1	60°	M24	85	45	38	25	23	17	6	
BT50-90°.F	2	90°	M24	85	45	38	25	23	17	6	

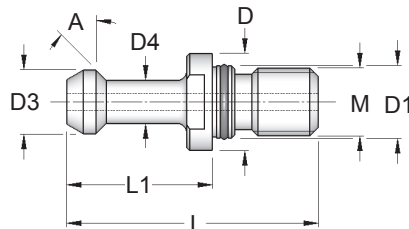
F = Foro

Tiranti senza passaggio del refrigerante ad alta precisione
 Pull stud bolts without coolant hole with O-Ring


BT

CODICE	FAM	A	M	L	L1	D	D1	D3	D4	EUR
BT40-30°.OR	2	30°	M16	60	35	23	17	15	10	
BT40-45°.OR		45°	M16	60	35	23	17	15	10	
BT40-90°.OR		90°	M16	60	35	23	17	15	10	
BT50-30°.OR		30°	M24	85	45	38	25	23	17	
BT50-45°.OR		45°	M24	85	45	38	25	23	17	
BT50-90°.OR		90°	M24	85	45	38	25	23	17	

Tiranti con passaggio del refrigerante ad alta precisione
 Sealed pull studs with O-Ring for high pressure coolant


BT

CODICE	FAM	A	M	L	L1	D	D1	D3	D4	F	EUR
BT40-30°.F+OR	2	30°	M16	60	35	23	17	15	10	4	
BT40-45°.F+OR		45°	M16	60	35	23	17	15	10	4	
BT40-90°.F+OR		90°	M16	60	35	23	17	15	10	4	
BT50-30°.F+OR		30°	M24	85	45	38	25	23	17	6	
BT50-45°.F+OR		45°	M24	85	45	38	25	23	17	6	
BT50-90°.F+OR		90°	M24	85	45	38	25	23	17	6	

F = Foro

Tiranti con doppio passaggio del refrigerante ad alta precisione
Sealed pull studs with double O-Ring for high pressure coolant

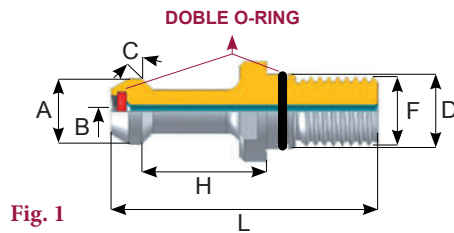


Fig. 1

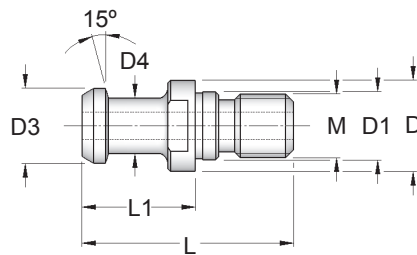
Fig. 1

BT

CODICE	FAM	COD	F	C	D	A	H	L	B	FIG	EUR
BT40-45°.F+2OR	1	CD16012	M16	45°	17	15	28	60	3	1	
BT40-45°.F+2OR		CD16003	M16	45°	17	15	28	60	3	2	
BT50-45°.F+2OR		CD24026	M24	45°	25	23	35	85	6	1	
BT50-60°.F+2OR		CD24027	M24	60°	25	23	35	85	6	1	
BT50-90°.F+2OR		CD24024	M24	90°	25	23	35	85	6	1	

F = Foro

Tiranti con passaggio del refrigerante (JIS B 6339)
Pull stud bolts (JIS B 6339)

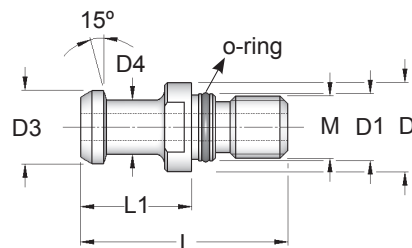


JIS-B/6339

CODICE	FAM	M	D	D1	D3	D4	L	L1	F	EUR
6339.ISO30-F4	2	M12	16.5	12.5	12	8	43	23.4	4	
6339.ISO40-F7		M16	23	17	19	14	54	29	7	

F = Foro

Tiranti con passaggio del refrigerante ad alta precisione (JIS B 6339)
Pull stud bolts with coolant hole and O-Ring (JIS B 6339)



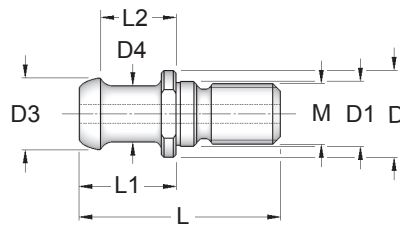
JIS-B/6339

CODICE	FAM	M	D	D1	D3	D4	L	L1	F	EUR
6339.ISO40-F+OR4	2	M16	23	17	19	14	54	29	4	
6339.ISO40-F+OR7		M16	23	17	19	14	54	29	7	
6339.ISO50-F+OR10		M24	38	25	28	21	74	34	10	

F = Foro

Tiranti (CB FERRARI)

Pull stud bolts (CB FERRARI)



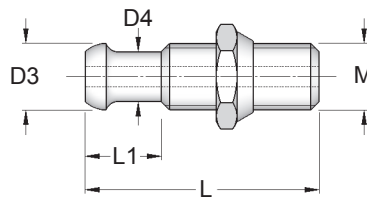
CB FERRARI

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
CB.FERRARI.ISO40-M16	1	M16	23	17	19	15	54	26	20.31	5	

F = Foro

Tiranti con dado (CB FERRARI)

Pull stud bolts with nut type (CB FERRARI)

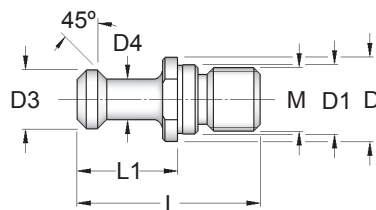


CB FERRARI

CODICE	FAM	M	D3	D4	L	L1	F	EUR
CB.FERRARI.ISO40-M16D	1	M16	16	12	57	18.5	5	

Tiranti (CHIRON)

Pull stud bolts (CHIRON)

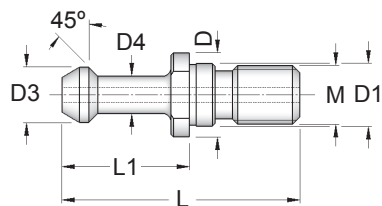


CHIRON

CODICE	FAM	M	D	D1	D3	D4	L	L1	EUR
CHIRON.ISO30-M12	1	M12	16	13	10	6	36	20	

Tiranti (CINCINNATI)

Pull stud bolts (CINCINNATI)



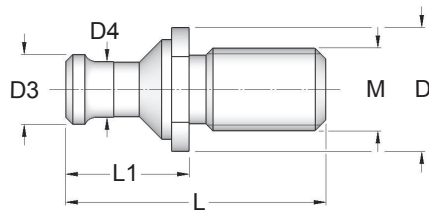
CINCINNATI

CODICE	FAM	A	M	L	L1	D	D1	D3	D4	F	EUR
SK40-45°F-36.6	2	45°	M16	67.3	36.6	22.2	17	15	10.3	3.8	
SK40-45°F-39.4		45°	M16	67.3	39.4	22.2	17	15	10.3	3.8	

F = Foro

Tiranti (CORREA)

Pull stud bolts (CORREA)

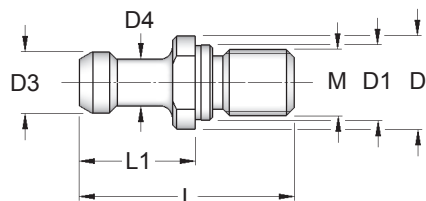


CORREA

CODICE	FAM	M	D	D3	D4	L	L1	EUR
CORREA.ISO50-M24	2	M24	36	20	16	76	36	

Tiranti MECCANICA (CORTINI)

Pull stud bolts MECCANICA (CORTINI)

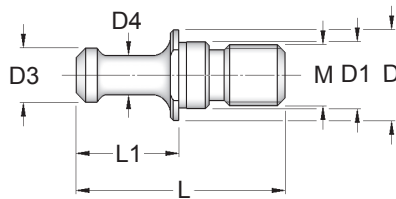


CORTINI

CODICE	FAM	M	D	D1	D3	D4	L	L1	EUR
CORTINI.ISO30-M12	2	M12	16	13	10	7	39	21	

Tiranti (FAMUP)

Pull stud bolts (FAMUP)

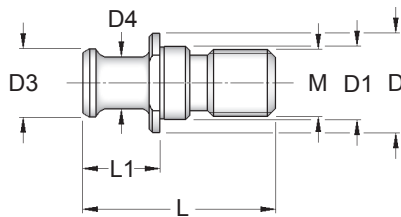


FAMUP

CODICE	FAM	M	D	D1	D3	D4	L	L1	EUR
FAMUP.ISO30-M12	2	M12	16	13	9.8	5.8	40	20	
FAMUP.ISO40-M16		M16	23	17	13.8	9.8	55	27	
FAMUP.ISO40-M16		M16	23	17	13.8	9.8	58	30	

Tiranti (GLORIA)

Pull stud bolts (GLORIA)

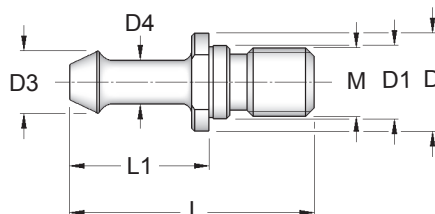


GLORIA

CODICE	FAM	M	D	D1	D3	D4	L	L1	EUR
GLORIA.ISO40-M16	2	M16	23	17	16	12	45	18	

Tiranti (OLIVETTI OCN)

Pull stud bolts (OLIVETTI OCN)

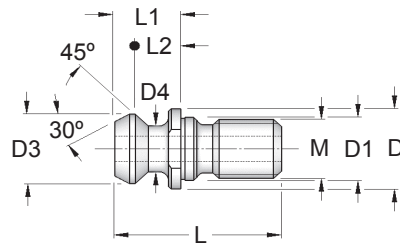


OLIVETTI

CODICE	FAM	M	D	D1	D3	D4	L	L1	EUR
OLIVETTI.ISO40-M16	2	M16	23	17	14.3	10	58	33	

Tiranti con foro refrigerante per macchine (MAZAK)

Pull stud bolts type with hole (MAZAK)



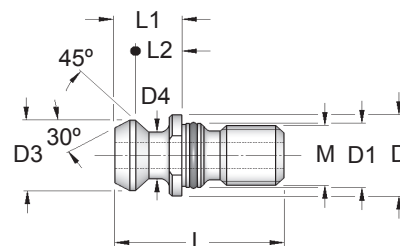
MAZAK

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
MAZAK.ISO40-M16-F1	2	M16	21.8	17	18.79	12.44	41.25	16.25	11.17	7	
MAZAK.ISO40-M16-F2		M16	22.0	17	18.79	12.44	44.10	19.10	14.02	7	
MAZAK.ISO50-M24-F1		M24	35.5	25	28.95	20.82	65.40	25.40	17.78	10	

F = Foro

Tiranti con foro refrigerante per macchine ad alta precisione (MAZAK)

Pull stud bolts type with hole and O-Ring (MAZAK)



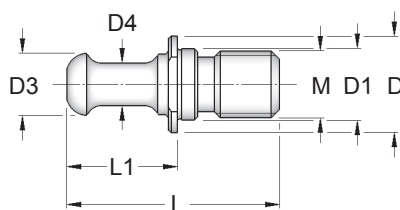
MAZAK

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
MAZAK.ISO40-M16-F1.OR	2	M16	21.8	17	18.79	12.44	41.25	16.25	11.17	7	
MAZAK.ISO40-M16-F2.OR		M16	22.0	17	18.79	12.44	44.10	19.10	14.02	7	
MAZAK.ISO50-M24-F1.OR		M24	35.5	25	28.95	20.82	65.40	25.40	17.78	10	

F = Foro

Tiranti (RAMBAUDI)

Pull stud bolts (RAMBAUDI)

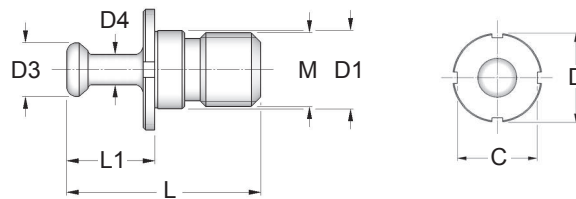


RAMBAUDI

CODICE	FAM	M	D	D1	D3	D4	L	L1	EUR
RAMBAUDI.ISO40-M16	2	M16	24.0	17	14.6	10	52.0	27.0	
RAMBAUDI.ISO50-M24		M24	35.8	25	20.0	16	79.5	39.5	

Tiranti (SECMU)

Pull stud bolts (SECMU)

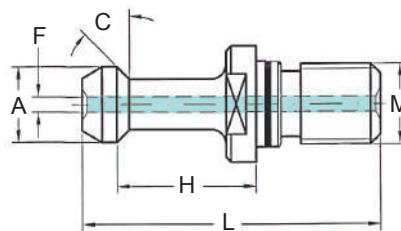


SECMU

CODICE	FAM	M	D	D1	D3	D4	L	L1	C	EUR
SECMU.ISO50-M24	2	M24	40	25	17.5	9.8	64	29	36	

Tiranti con foro refrigerante (HURCO)

With coolant hole (HURCO)



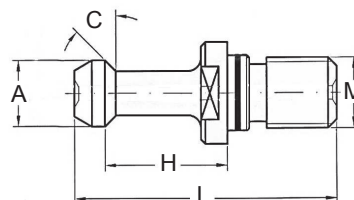
HURCO

CODICE	FAM	C	M	A	H±0.05	L	F	EUR
PS.BT40-HC1	1	45°	M16	15	25.15	57.15	3	
PS.BT40-HC2		60°	M16	15	25.15	57.15	3	
PS.BT40-HC3		90°	M16	15	25.15	57.15	3	

F = Foro

Tiranti senza foro refrigerante (HURCO)

Without coolant hole (HURCO)

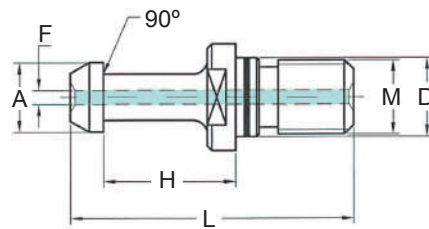


HURCO

CODICE	FAM	C	M	A	H±0.05	L	EUR
PS.BT40-HC1.SF	1	45°	M16	15	25.15	57.15	
PS.BT40-HC2.SF		60°	M16	15	25.15	57.15	
PS.BT40-HC3.SF		90°	M16	15	25.15	57.15	

Tiranti con foro refrigerante (MITSUI SEIKI)

With coolant hole (MITSUI SEIKI)



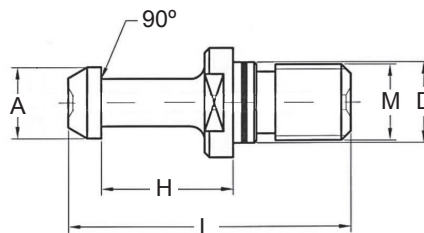
MITSUI SEIKI

CODICE	FAM	M	A	H±0.05	D	L	F	EUR
PS.BT40.31F	1	M16	15	18	17	50	3	
PS.BT50.31F	1	M24	24	23	25	71	8	

F = Foro

Tiranti senza foro refrigerante (MITSUI SEIKI)

Without coolant hole (MITSUI SEIKI)

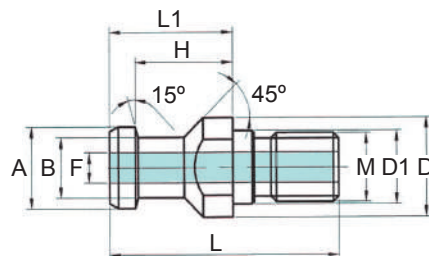


MITSUI SEIKI

CODICE	FAM	M	A	H±0.05	D	L	EUR
PS.BT40.31	1	M16	15	18	17	50	
PS.BT50.31	1	M24	24	23	25	71	

Tiranti con foro refrigerante (KITAMURA)

With coolant hole (KITAMURA)



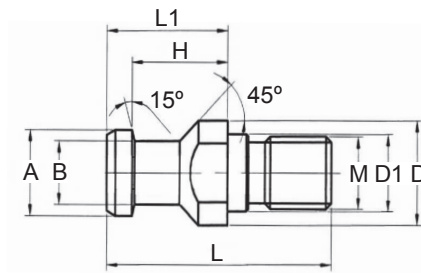
KITAMURA

CODICE	FAM	M	A	H±0.05	D1	D	B	L1	L	F	EUR
PS.KITAMURA-M16/SF	1	M16	19	23	17	23	14	29	54	7	

F = Foro

Tiranti senza foro refrigerante (KITAMURA)

Without coolant hole (KITAMURA)

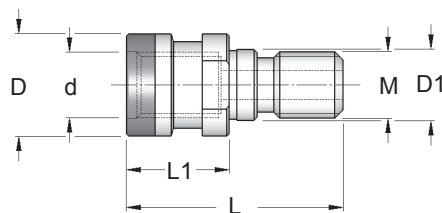


KITAMURA

CODICE	FAM	M	A	H±0.05	D1	D	B	L1	L	EUR
PS.KITAMURA-M16/SF	1	M16	19	23	17	23	14	29	54	

Tiranti con foro refrigerante (BT-DIN2080)

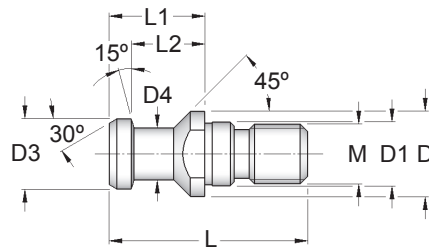
With coolant bore (BT-DIN2080)



OTT

CODICE	FAM	M	d	D	D1	L1	L	EUR
OTTM16/L53-TC40	2	M16	M16	25.3	17	25	53	
OTTM16/L56-BT40	2	M16	M16	25.3	17	28	56	
OTTM24/L65-Cono50	2	M24	M24	39.6	25	25	65	

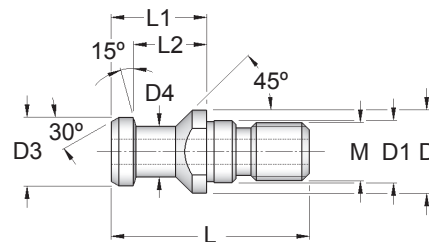
Tiranti senza foro refrigerante (DIN/69872)
Pull stud bolts without coolant hole (DIN/69872)



DIN/69872

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
69872-ISO30	2	M12	17	13	13	9	44	24	19	
69872-ISO40		M16	23	17	19	14	54	26	20	
69872-ISO50		M24	36	25	28	21	74	34	25	

Tiranti con foro refrigerante (DIN/69872)
Pull stud bolts with coolant hole (DIN/69872)

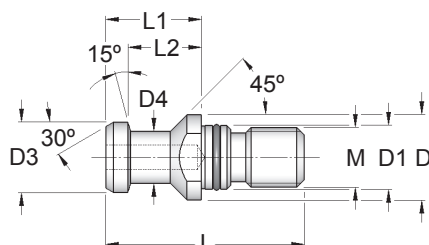


DIN/69872

CODICE	FAM	D	D1	D2	D3	D4	L	L1	L2	F	EUR
69872.ISO30-F	2	M12	17	13	13	9	44	24	19	3.0	
69872.ISO40-F		M16	23	17	19	14	54	26	20	7.0	
69872.ISO50-F		M24	36	25	28	21	74	34	25	11.5	

F = Foro

Tiranti senza foro refrigerante ad alta precisione (DIN/69872)
Pull stud bolts with watertight O-Ring (DIN/69872)

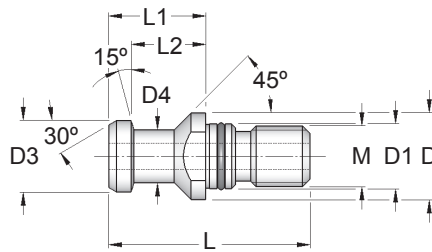


DIN/69872

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
69872.ISO40-OR	2	M16	23	17	19	14	54	26	20	
69872.ISO50-OR		M24	36	25	28	21	74	34	25	

Tiranti con foro refrigerante ad alta precisione (DIN/69872)

Pull stud bolts with coolant hole and O-Ring (DIN/69872)



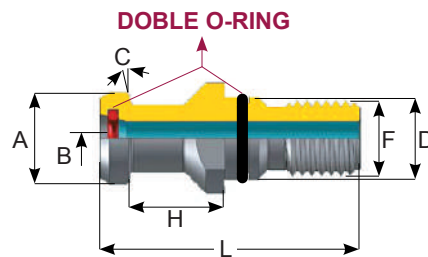
DIN/69872

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
69872.ISO40-F+OR	2	M16	23	17	19	14	54	26	20	7.0	
69872.ISO50-F+OR		M24	36	25	28	21	74	34	25	113	

F = Foro

Tiranti con doppio passaggio del refrigerante ad alta precisione (DIN/69872)

Pull stud bolts with double coolant hole and O-Ring (DIN/69872)



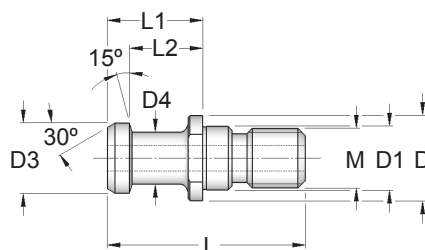
DIN/69872

CODICE	FAM	COD	F	C	D	A	H	L	B	EUR
69872.ISO40-F+2OR	3	CD16066	M16	15°	17	19	20	54	7	
69872.ISO40-F+2OR		CD16067	M16	15°	17	19	23	54	7	
69872.ISO50-F+2OR		CD24017	M24	15°	25	28	25	74	11.5	

F = Foro

Tiranti senza foro refrigerante (ISO 7388/2A)

Pull Stud bolts without coolant hole (ISO 7388/2A)

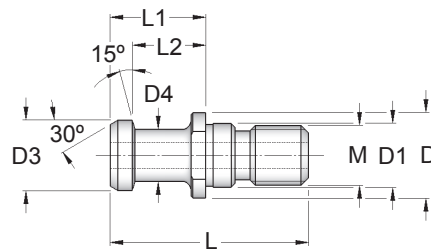


ISO 7388/2-A

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
7388/2A-ISO30	2	M12	16	13	12	8	44	24	19	
7388/2A-ISO40		M16	23	17	19	14	54	26	20	
7388/2A-ISO50		M24	36	25	28	21	74	34	25	

Tiranti con foro refrigerante (ISO 7388/2A)

Pull stud bolts with coolant hole (ISO 7388/2A)



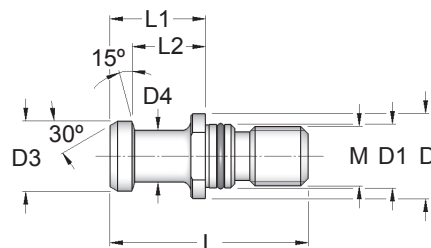
ISO 7388/2-A

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
7388/2A-ISO30.F	1	M12	16	13	12	8	44	24	19	3.0	
7388/2A-ISO40.F		M16	23	17	19	14	54	26	20	7.0	
7388/2A-ISO50.F		M24	36	25	28	21	74	34	25	11.5	

F = Foro

Tiranti senza foro refrigerante ad alta precisione (ISO 7388/2A)

Pull stud bolts with watertight O-Ring (ISO 7388/2A)

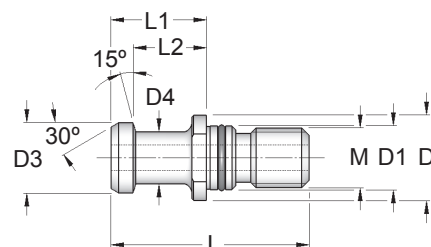


ISO 7388/2-A

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
7388/2A.ISO40-OR	1	M16	23	17	19	14	54	26	20	
7388/2A.ISO50-OR		M24	36	25	28	21	74	34	25	

Tiranti con foro refrigerante ad alta precisione (ISO 7388/2A)

Pull stud bolts with coolant hole and O-Ring (ISO 7388/2A)

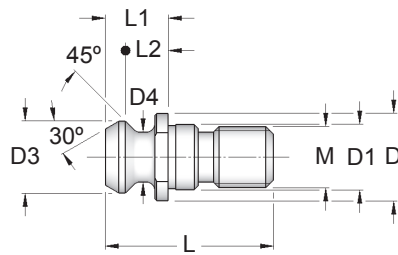


ISO 7388/2-A

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
7388/2A.ISO40-F+OR	1	M16	23	17	19	14	54	26	20	7.0	
7388/2A.ISO50-F+OR		M24	36	25	28	21	74	34	25	11.5	

F = Foro

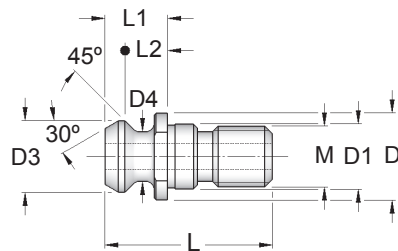
Tiranti senza foro refrigerante (ISO 7388/2B)
Pull stud bolts without coolant hole (ISO 7388/2B)



ISO 7388/2-B

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
7388/2B.ISO30	2	M12	17.0	12.5	13.3	9.3	34.0	11.8	8.1	
7388/2B.ISO40		M16	22.5	17.0	18.9	12.9	44.5	16.4	11.1	
7388/2B.ISO50		M24	37.0	25.0	29.1	19.6	65.5	25.5	17.9	

Tiranti con foro refrigerante (ISO 7388/2B)
Pull stud bolts with coolant hole (ISO 7388/2B)

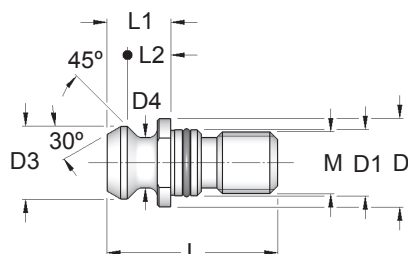


ISO 7388/2-B

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
7388/2B.ISO40-F	2	M16	22.5	17.0	18.9	12.9	44.5	16.4	11.1	7.3	
7388/2B.ISO50-F		M24	37.0	25.0	29.1	19.6	65.5	25.5	17.9	11.5	

F = Foro

Tiranti senza foro refrigerante ad alta precisione (ISO 7388/2B)
Pull stud bolts with watertight O-Ring (ISO 7388/2B)



ISO 7388/2-B

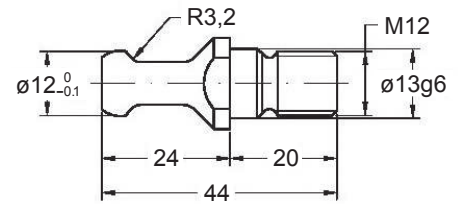
CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
7388/2B.ISO40-OR	2	M16	22.5	17.0	18.9	12.9	44.5	16.4	11.1	
7388/2B.ISO50-OR		M24	37.0	25.0	29.1	19.6	65.5	25.5	17.9	

Tiranti (BIESSE)

Pull stud bolts (BIESSE)

BIESSE

CODICE	FAM	EUR
PS.WD30 - BS2	1	

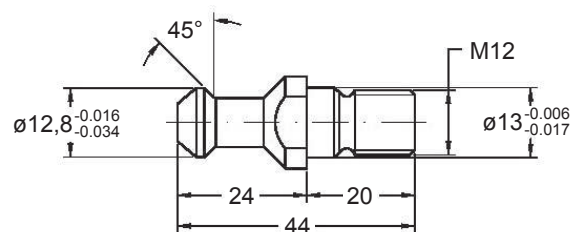


Tiranti (ALBERTI)

Pull stud bolts (ALBERTI)

ALBERTI

CODICE	FAM	EUR
PS.WD30 - ALB	1	

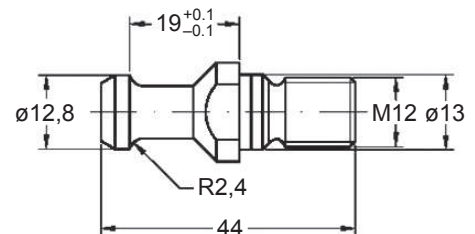


Tiranti (CMS)

Pull stud bolts (CMS)

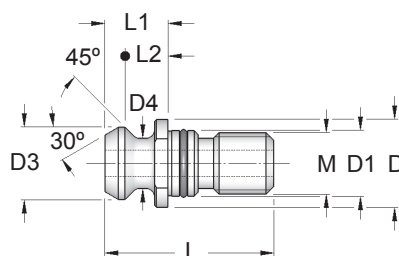
CMS

CODICE	FAM	EUR
PS.WD30 - CMS	1	



Tiranti con foro refrigerante ad alta precisione (ISO 7388/2B)

Pull stud bolts with hole and O-Ring (ISO 7388/2B)



ISO 7388/2-B

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
7388/2B.ISO40-F+OR	1	M16	22.5	17.0	18.9	12.9	44.5	16.4	11.1	7.3	
7388/2B.ISO50-F+OR		M24	37.0	25.0	29.1	19.6	65.5	25.5	17.9	11.5	

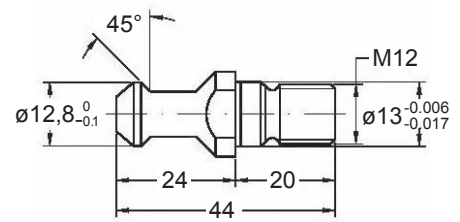
F = Foro

Tiranti (COLOMBO)

Pull stud bolts (COLOMBO)

COLOMBO

CODICE	FAM	EUR
PS.WD30 - COL	1	

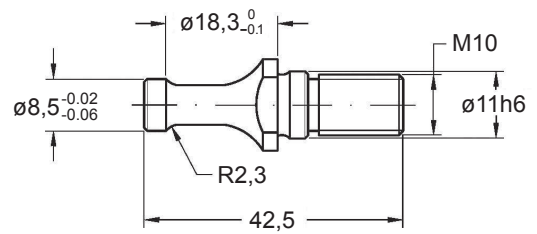


Tiranti (SCM)

Pull stud bolts (SCM)

SCM

CODICE	FAM	EUR
PS.WD30 - SCM	1	

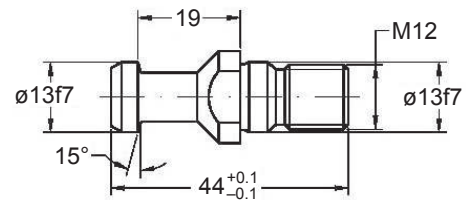


Tiranti senza foro refrigerante (DIN69872/A)

Pull stud bolts type without hole (DIN69872/A)

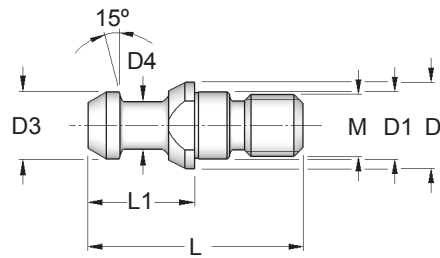
DIN/69872/A

CODICE	FAM	EUR
PS.DIN30SF	1	



Tiranti ad alta velocità per (ISO 20)

High speed pull stud bolts for shank (ISO 20)

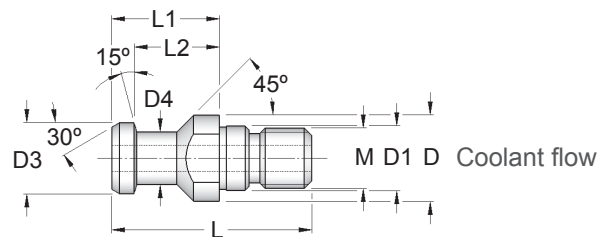


ALTA VELOCITÀ

CODICE	FAM	M	D	D1	D3	D4	L	L1	EUR
ISO20-M8/L28	2	M8	11	8.5	8.5	6	28.0	14	

Tiranti tipo (BRIDGEPORT)

Pull stud bolts (BRIDGEPORT)



BRIDGEPORT

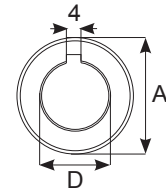
CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
BRIDGEPORTISO.40-M16	2	M16	23	17	19	14	54	29	23	7	

F = Foro

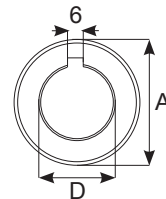
Anelli distanziatori
 Spacers

D16

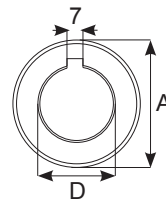
DIAMETRO					Ø	A	EUR
D16X0.03	D16X0.1	D16X0.5	D16X3.0	D16X10.0	16	26	
D16X0.04	D16X0.2	D16X0.6	D16X4.0	D16X20.0			
D16X0.05	D16X0.3	D16X1.0	D16X5.0	D16X30.0			
D16X0.06	D16X0.4	D16X2.0	D16X6.0				


D22

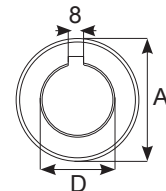
DIAMETRO					Ø	A	EUR
D22X0.03	D22X0.1	D22X0.5	D22X3.0	D22X10.0	22	34	
D22X0.04	D22X0.2	D22X0.6	D22X4.0	D22X20.0			
D22X0.05	D22X0.3	D22X1.0	D22X5.0	D22X30.0			
D22X0.06	D22X0.4	D22X2.0	D22X6.0	D22X60.0			


D27

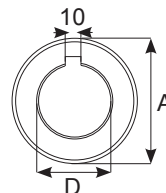
DIAMETRO					Ø	A	EUR
D27X0.03	D27X0.1	D27X0.5	D27X3.0	D27X10.0	27	40	
D27X0.04	D27X0.2	D27X0.6	D27X4.0	D27X20.0			
D27X0.05	D27X0.3	D27X1.0	D27X5.0	D27X30.0			
D27X0.06	D27X0.4	D27X2.0	D27X6.0	D27X60.0			


D32

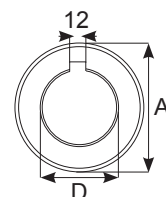
DIAMETRO					Ø	A	EUR
D32X0.03	D32X0.1	D32X0.5	D32X3.0	D32X10.0	32	46	
D32X0.04	D32X0.2	D32X0.6	D32X4.0	D32X20.0			
D32X0.05	D32X0.3	D32X1.0	D32X5.0	D32X30.0			
D32X0.06	D32X0.4	D32X2.0	D32X6.0	D32X60.0			


D40

DIAMETRO					Ø	A	EUR
D40X0.03	D40X0.1	D40X0.5	D40X3.0	D40X10.0	40	55	
D40X0.04	D40X0.2	D40X0.6	D40X4.0	D40X20.0			
D40X0.05	D40X0.3	D40X1.0	D40X5.0	D40X30.0			
D40X0.06	D40X0.4	D40X2.0	D40X6.0	D40X60.0			


D50

DIAMETRO					Ø	A	EUR
-	D50X0.1	D50X0.5	D50X3.0	D50X10.0	50	68	
-	D50X0.2	D50X0.6	D50X4.0	D50X20.0			
D50X0.05	D50X0.3	D50X1.0	D50X5.0	D50X30.0			
D50X0.06	D50X0.4	D50X2.0	D50X6.0	D50X60.0			



ACCESSORI
ACCESSORIES

Anelli di trascinamento (DIN/6366)

Cluth drive rings (DIN/6366)



CODICE	FAM	A	EUR
ATR.D16	1	32	
ATR.D22		42	
ATR.D27		48	
ATR.D32		58	
ATR.D40		70	

Chiavette per porta frese combi

Drive Keys for combi shell mill holders



CODICE	FAM	L	H	S	EUR
CHV.D16C	1	20	4	4	
CHV.D22C		25	6	6	
CHV.D27C		25	7	7	
CHV.D32C		28	8	7	
CHV.D40C		32	10	8	

Viti a croce (DIN/6367)

Cross retaining screw (DIN/6367)



CODICE	FAM	M	EUR
VTC.D16	1	M8	
VTC.D22		M10	
VTC.D27		M12	
VTC.D32		M16	
VTC.D40		M20	
VTC.D60		M30	

Viti a croce con passaggio refrigerante

Cross retaining screw with coolant through



CODICE	FAM	M	EUR
VTCS.D16	1	M8	
VTCS.D22		M10	
VTCS.D27		M12	
VTCS.D32		M16	
VTCS.D40		M20	
VTCS.D60		M30	

Chiavi per viti a croce (DIN/6388)

Spanners for cross screws (DIN/6388)



CODICE	FAM	M	EUR
SP13C	1	6	
SP16C		8	
SP22C		10	
SP27C		12	
SP32C		16	
SP40C		20	
SP60C		24	

Viti a testa tonda

Screws for shell end mill holders

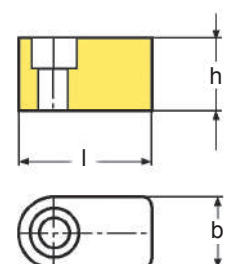


CODICE	FAM	D	EUR
VTT.M10	1	22	
VTT.M12		27	
VTT.M16		32	
VTT.M20		40	

Tasselli di trascinamento per portafrese fissi

Drive key

CODICE	FAM	D	b x h x l	EUR
TTR.D16	1	16	8 8 14	
TTR.D22		22	10 10 18	
TTR.D27		27	12 12 18	
TTR.D32		32	14 14 22	
TTR.D40		40	16 16 25	
TTR.D60		60	25.4 25 26.5	



ACCESSORI
 ACCESSORIES

Viti per mandrini Weldon
 Screws for shell end mill holders


CODICE	M	FAM	EUR
GR.WE6	M6 x 1	1	
GR.WE8	M8 x 1.25		
GR.WE10	M10 x 1.5		
GR.WE12-14	M12 x 1.75		
GR.WE16-18	M14 x 2		
GR.WE20	M16 x 2		
GR.WE25	M18 x 2		
GR.WE32-40	M20 x 2		
GR.WE50	M24 x 2		

Viti speciali per mandrini Weldon

 Special locking Screws
 for shell end mill holders


CODICE	M	FAM	EUR
GR.WEC16	M14 x 2	1	
GR.WEC20	M16 x 2		
GR.WEC25-32	M16 x 1		
GR.WEC25	M18 x 2		
GR.WEC32-40	M20 x 2		

ACCESSORI
 ACCESSORIES

Tamponi pulitori interni
 Spindle taper wipers

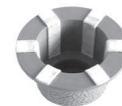

CODICE	FAM	MODELLO	EUR
TCL.SK30	1	ISO30	
TCL.SK40		ISO40	
TCL.SK50		ISO50	

Tamponi pulitori interni
 Spindle taper wipers


CODICE	FAM	MODELLO	EUR
TCL.CM1	1	CM1	
TCL.CM2		CM2	
TCL.CM3		CM3	
TCL.CM4		CM4	
TCL.CM5		CM5	

Tamponi pulitori interni
 Spindle taper wipers


CODICE	FAM	MODELLO	EUR
TP-HSK32	2	HSK-32 A / E	
TLC.HSK40	1	HSK-40 A / E	
TLC.HSK50	1	HSK-50 A / E	
TLC.HSK63	1	HSK-63 A / E	
TP-HSK80	2	HSK-80 A	
TLC.HSK100	1	HSK-100 A	

Tamponi pulitori esterni
 Spindle taper wipers


CODICE	FAM	MODELLO	EUR
TPA-HSK40	9	HSK-40 A / E	
TPA-HSK50		HSK-50 A / E	
TPA-HSK63		HSK-63 A / E	

**Raccordo per il passaggio
 del refrigerante**
 HSK- cooling tube


CODICE	FAM	EUR
HSK40.CFM12	1	
HSK50.CFM16		
HSK63.CFM18		
HSK80.CFM20		
HSK100.CFM24		

**Chiavi per il passaggio
 del refrigerante**
 HSK- cooling tube


CODICE	FAM	EUR
HSK40.SP11	1	
HSK50.SP15		
HSK63.SP17		
HSK80.SP19		
HSK100.SP22		



**MANDRINI ATTACCO
WELDON DIN 1835
CILINDRICO - VDI DIN 69880**

TOOLHOLDERS
WELDON DIN 1835
CYLINDRICAL - VDI DIN 69880

2



MANDRINI ATTACCO WELDON DIN 1835 CILINDRICO - VDI DIN 69880

TOOLHOLDERS WELDON DIN 1835
CYLINDRICAL - VDI DIN 69880



MANDRINI A CAMBIO RAPIDO
QUICK CHANGE TAPPING CHUCK



MANDRINI A CAMBIO RAPIDO PASSAGGIO DEL REFRIGERANTE
QUICK CHANGE TAPPING CHUCK WITH COOLANT THROUGH



MANDRINI RIGIDI
RIGID TAP HOLDER



MANDRINI RIGIDI PASSAGGIO DEL REFRIGERANTE
RIGID TAP HOLDER WITH COOLANT THROUGH



MANDRINI CAMBIO RAPIDO ABS
QUICK CHANGE TAPPING CHUCK ABS



MANDRINI CAMBIO RAPIDO CILINDRICI
QUICK CHANGE TAPPING CHUCK



MANDRINI CAMBIO RAPIDO DIN/6885 DS
QUICK CHANGE TAPPING CHUCK DIN/6885 DS

2A



MANDRINI SYNCHRO PORTAPINZA
SYNCHRO COLLET CHUCK



MANDRINI SYNCHRO CAMBIO RAPIDO
SYNCHRO QUICK CHANGE TAPPING CHUCK

2B



MANDRINI A CAMBIO RAPIDO VDI
QUICK CHANGE TAPPING CHUCK VDI



PROLUNGHE A CALETTAMENTO
SHIRK FIT TOOLHOLDER

2C



MANDRINI IDRAULICI CILINDRICI
CYLINDRICAL HYDRAULIC CHUCK



MANDRINI IDRAULICI VDI
HYDRAULIC CHUCK VDI

MANDRINI ATTACCO WELDON DIN 1835 CILINDRICO - VDI DIN 69880

TOOLHOLDERS WELDON DIN 1835
CYLINDRICAL - VDI DIN 69880



PORTAPINZA CILINDRICO
STRAIGHT SHANK COLLET CHUCK

2D



MANDRINI PORTAPUNTE
STRAIGHT SHANK DRILL CHUCK



PORTA ALESATORE FLOTTANTE
FLOATING REAMER HOLDER

2E



MANDRINI PORTABROCCE
FLANGE ER COLLET HOLDER

2F

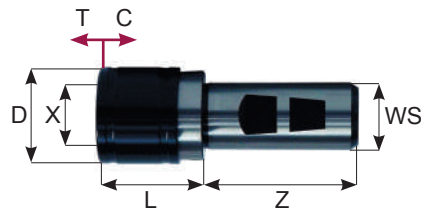


DISPOSITIVO PER LUBRIFICAZIONE
OIL-FEED HOLDERS

2G

Mandrini con compensazione e trazione Weldon DIN/1835 B+E

Weldon DIN/1835 B+E - Tension-Compression tap holders


WELDON

COD.	WS	CAP.	X	D	Z	L	T	C	EUR
WS16-THTC0-L37	16	M1 ÷ M10	13	26	49	37	6.5	6.5	
WS20-THTC0-L37	20				51				
WS20-THTC1-L39	20	M3 ÷ M12	19	36	51	39	7.5	7.5	
WS25-THTC1-L39	25				53				
WS32-THTC1-L39	32				60				
WS40-THTC1-L39	40				80				
WS20-THTC2-L63	20	M8 ÷ M20	31	53	51	63	12.5	12.5	
WS25-THTC2-L63	25				53				
WS32-THTC2-L63	32				60				
WS40-THTC2-L63	40				68				
WS32-THTC3-L124	32	M14 ÷ M33	48	78	60	124	20.0	20.0	
WS40-THTC3-L118	40				68	118			
WS32-THTC4-L140	32	M22 ÷ M48	60	96	60	140	22.5	22.5	

INCH

COD.	WS	CAP.	X	D	Z	L	EUR
WS1000-THTC1-1.53	1	M3 ÷ M12	0.74	1.41	2.28	1.53	
WS1250-THTC1-1.61	1.25		0.74			1.61	
WS1000-THTC2-2.48	1	M8 ÷ M20	1.22	2.08		2.48	
WS1250-THTC2-2.48	1.25		1.22			2.48	
WS1250-THTC3-5.00	1.25	M14 ÷ M33	1.88	3.07	2.68	5.00	
WS1500-THTC3-4.65	1.50		1.88			4.65	

Mandrini con solo trazione Weldon DIN/1835 B+E

Weldon DIN/1835 B+E - Tension tap holders

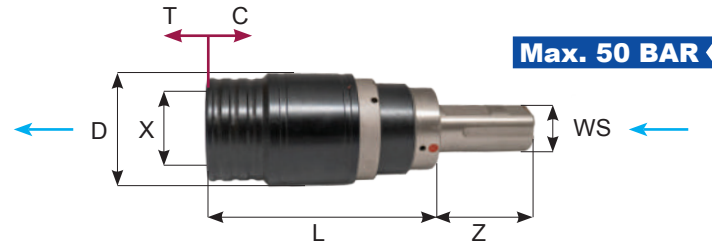
WELDON

COD.	WS	CAP.	X	D	Z	L	T	C	EUR
WS16-THT0-L37	16	M1 ÷ M10	13	26	49	37	6.5	0	
WS20-THT0-L37	20				51				
WS20-THT1-L39	20	M3 ÷ M12	19	36	51	39	7.5	0	
WS25-THT1-L39	25				53				
WS32-THT1-L39	32				60				
WS40-THT1-L39	40				68				
WS20-THT2-L63	20	M8 ÷ M20	31	53	51	63	12.5	0	
WS25-THT2-L63	25				53				
WS32-THT2-L63	32				60				
WS40-THT2-L63	40				68				
WS32-THT3-L124	32	M14 ÷ M33	48	78	60	124	20.0	0	
WS40-THT3-L118	40				68	118			
WS32-THT4-L140	32	M22 ÷ M48	60	96	60	140	22.5	0	

**Mandrini con compensazione e trazione Weldon DIN/1835 B+E
con passaggio del refrigerante centrale**

Weldon DIN/1835 B+E

Tension / Compression tap holders with coolant thru



WELDON

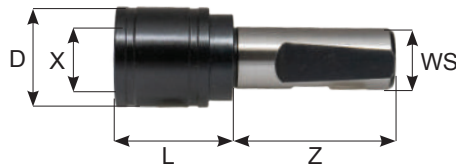
CODICE	WS	CAP	X	D	Z	L	T	C	EUR
WS20-THTC1-L66C	20	M3 ÷ M12	19	40	51	66	7	3	
WS25-THTC1-L66C	25	M3 ÷ M12	19	40	53	66	7	3	
WS25-THTC2-L102C	25	M8 ÷ M20	31	56	53	102	10	5	
WS32-THTC2-L102C	32	M8 ÷ M20	31	56	60	102	10	5	
WS32-THTC3-L167C	32	M14 ÷ M33	48	75	60	167	18	13	

INCH

CODICE	WS	CAP	X	D	Z	L	T	C	EUR
WS1000-THTC1-2.60	1	M3 ÷ M12	0.74	1.57	2.28	2.60	0.27	0.11	
WS1250-THTC1-2.60	1.25	M3 ÷ M12	0.74	1.57	2.28	2.60	0.27	0.11	
WS1000-THTC2-4.02	1	M8 ÷ M20	1.22	2.20	2.28	4.02	0.39	0.19	
WS1250-THTC2-4.02	1.25	M8 ÷ M20	1.22	2.20	2.28	4.02	0.39	0.19	
WS1250-THTC3-6.57	1.25	M14 ÷ M33	1.88	2.95	2.28	6.57	0.70	0.51	
WS1500-THTC3-6.57	1.50	M14 ÷ M33	1.88	2.95	2.68	6.57	0.70	0.51	

Mandrini rigidi Weldon DIN/1835 B+E

Weldon DIN/1835 B+E - Rigid tap holders


WELDON

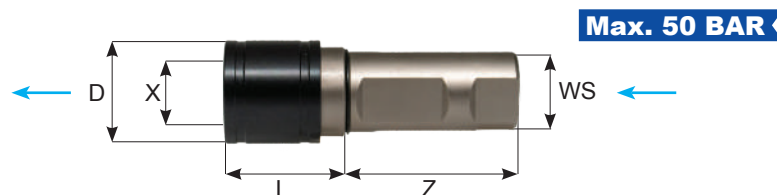
CODICE	WS	CAP	X	D	L	Z	EUR
WS20-TLR1-L37	20	M3 ÷ M12	19	32	37	51	
WS25-TLR1-L37	25	M3 ÷ M12	19	32	37	53	
WS25-TLR2-L56	25	M8 ÷ M20	31	50	56	53	
WS32-TLR2-L56	32	M8 ÷ M20	31	50	56	60	
WS25-TLR3-L83	25	M14 ÷ M33	48	72	83	53	
WS32-TLR3-L83	32	M14 ÷ M33	48	72	83	60	
WS32-TLR4-L106	32	M22 ÷ M48	60	95	106	60	

INCH

COD.	WS	CAP.	X	D	Z	L	EUR
WS0750-TLR1-1.46	0.75	M3 ÷ M12	0.74	1.25	2.03	1.46	
WS1000-TLR1-1.46	1	M3 ÷ M12	0.74	1.25	2.03	1.46	
WS1250-TLR1-1.46	1.25	M3 ÷ M12	0.74	1.25	2.03	1.46	
WS1000-TLR2-2.12	1	M8 ÷ M20	1.22	1.96	2.28	2.12	
WS1250-TLR2-2.12	1.25	M8 ÷ M20	1.22	1.96	2.28	2.12	
WS1250-TLR3-3.27	1.25	M14 ÷ M33	1.88	2.83	2.28	3.27	
WS1500-TLR3-3.27	1.50	M14 ÷ M33	1.88	2.83	2.28	3.27	

Mandrini rigidi Weldon DIN/1835 B+E con passaggio del refrigerante

Weldon DIN/1835 B+E - Rigid tap holders with coolant thru


WELDON

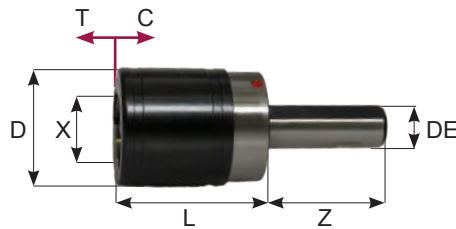
CODICE	WS	CAP	X	D	Z	L	EUR
WS20-TLR1-L38C	20	M3 ÷ M12	19	32	53	38	
WS25-TLR1-L38C	25	M3 ÷ M12	19	32	53	38	
WS25-TLR2-L54C	25	M8 ÷ M20	31	50	53	54	
WS32-TLR2-L54C	32	M8 ÷ M20	31	50	60	54	
WS32-TLR3-L83C	32	M14 ÷ M33	48	72	60	83	

INCH

CODICE	WS	CAP	X	D	Z	L	EUR
WS0750-TLR1-1.46	0.75	M3 ÷ M12	0.74	1.25	2.03	1.46	
WS1000-TLR1-1.49	1	M3 ÷ M12	0.74	1.25	2.03	1.49	
WS1250-TLR1-1.65	1.25	M3 ÷ M12	0.74	1.25	2.03	1.65	
WS1000-TLR2-2.12	1	M8 ÷ M20	1.22	1.96	2.28	2.12	
WS1250-TLR2-2.12	1.25	M8 ÷ M20	1.22	1.96	2.28	2.12	
WS1250-TLR3-3.27	1.25	M14 ÷ M33	1.88	2.83	2.28	3.27	
WS1500-TLR3-3.27	1.50	M14 ÷ M33	1.88	2.83	2.28	3.27	

Mandrini cilindrici con compensazione e trazione DIN/1835/A

DIN/1835/A - Tension / Compression tap holders

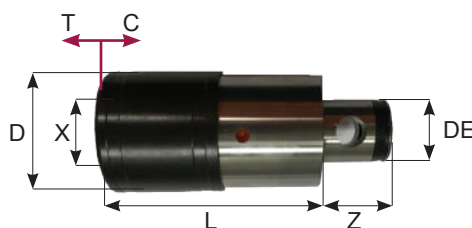

CILINDRICO

CODICE	DE	CAP	X	D	Z	L	T	C	EUR
DE16-THTC0-L37	16	M1 ÷ M10	13	26	56	37	6.5	6.5	
DE20-THTC0-L37	20								
DE16-THTC1-L39	16	M3 ÷ M12	19	36	56	39	7.5	7.5	
DE20-THTC1-L39	20								
DE25-THTC1-L39	25								
DE30-THTC1-L39	30								
DE32-THTC1-L39	32								
DE40-THTC1-L39	40								
DE20-THTC2-L63	20	M8 ÷ M20	31	53	58	63	12.5	12.5	
DE25-THTC2-L63	25								
DE30-THTC2-L63	30								
DE32-THTC2-L63	32								
DE35-THTC2-L63	35	M14 ÷ M33	48	78	100	98	20	20	
DE40-THTC2-L63	40								
DE25-THTC3-L98	25								
DE30-THTC3-L98	30								
DE32-THTC3-L98	32								
DE35-THTC3-L98	35								
DE40-THTC3-L98	40								

Disponibile anche solo trazione. Also available only tension.

Mandrini ABS con compensazione e trazione

Tension / Compression tap holders ABS


ABS

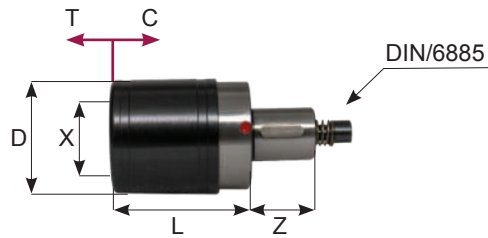
CODICE	DE	CAP	X	D	Z	L	T	C	EUR
ABS25-THTC0-L77	13	M1 ÷ M10	13	26	20	77	6.5	6.5	
ABS40-THTC1-L68	20	M3 ÷ M12	19	36	26	68	7.5	7.5	
ABS50-THTC1-L70	28				31	70			
ABS63-THTC1-L56	34				38	56			
ABS50-THTC2-L102	28	M8 ÷ M20	31	53	31	102	12.5	12.5	
ABS63-THTC2-L88	34				38	88			
ABS63-THTC3-L155	34	M14 ÷ M33	48	78	38	155	20	20	
ABS100-THTC4-L182	56	M22 ÷ M48	60	96	55	182	22.5	22.5	

Disponibile anche solo trazione. Also available only tension.

SONO ESCLUSI DALLA FORNITURA LA VITE DI BLOCCAGGIO E IL PERNO DI RIFERIMENTO.
 SET SCREW AND RELATIVE PIN HAVE TO BE ORDERED SEPARATELY.

Mandrini cilindrici con compensazione e trazione DIN/6585

DIN/6585 - Tension / Compression tap holders

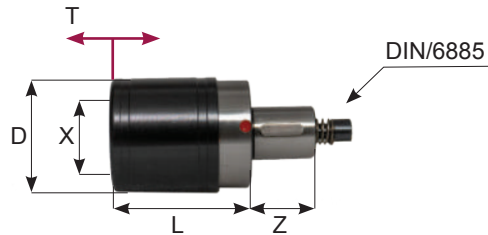


CILINDRICO

CODICE	CAP	X	D	Z	L	T	C	DIN/6885	EUR
DS15-THTC0-L37	M1 ÷ M10	13	26	18	37	6.5	6.5	5x3x12	
DS20-THTC1-L39	M3 ÷ M12	19	36	24	39	7.5	7.5	6x4x16	
DS25-THTC2-L63	M8 ÷ M20	31	53	30	63	12.5	12.5	6x6x20	

Mandrini cilindrici solo trazione DIN/6585

DIN/6585 - Tension / Compression tap holders

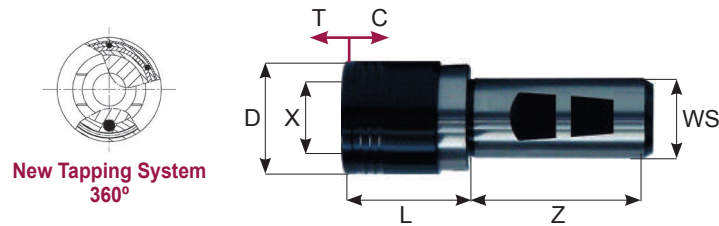


CILINDRICO

CODICE	CAP	X	D	Z	L	T	C	DIN/6885	EUR
DS15-THT0-L37	M1 ÷ M10	13	26	18	37	6.5	0	5x3x12	
DS20-THT1-L39	M3 ÷ M12	19	36	24	39	7.5	0	6x4x16	
DS25-THT2-L63	M8 ÷ M20	31	53	30	63	12.5	0	6x6x20	

Mandrini con compensazione e trazione Weldon DIN/1835 B+E 360°

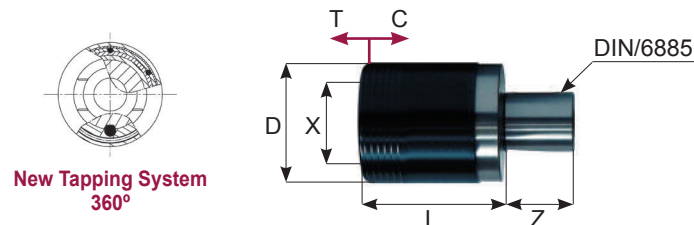
Weldon DIN/1835 B+E-Tension / Compression tap holders/360°


WELDON

CODICE	WS	CAP	X	D	Z	L	T	C	EUR
WS25-GCTC1-L45	25	M3 ÷ M12	19	39	53	45	7.5	7.5	
WS25-GCT1-L37.5						37.5	0	12.5	
WS25-GCTC2-L68	25	M8 ÷ M20	31	60	53	68	10	10	
WS25-GCT2-L58						58	0	16.5	
WS32-GCTC3-L99	32	M14 ÷ M33	48	86	60	99	17.5	17.5	
WS32-GCT3-L81.5						81.5	0	35	

Mandrini cilindrici con compensazione e trazione DIN/6585 / 360°

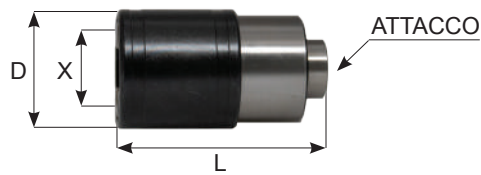
DIN/6585 - Tension / Compression tap holders / 360°


CILINDRICO

CODICE	CAP	X	D	Z	L	T	C	DIN/6885	EUR
DS20-GCTC1-L45	M1 ÷ M10	19	39	24	45	7.5	7.5	A6x4x16	
DS20-GCT1-L37.5					37.5	0	12.5		
DS25-GCTC2-L68	M8 ÷ M20	31	60	30	68	10	10	A6x6x20	
DS25-GCT2-L58					58	0	16.5		
DS36-GCTC3-L99	M14 ÷ M33	48	86	46	99	17.5	17.5	A10x6x32	
DS36-GCT3-L81.5					81.5	0	35		

Mandrini cilindrici per braccio a maschiare

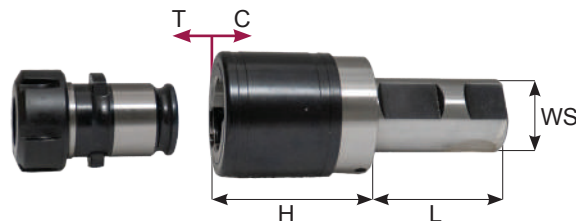
Tapping spindle


CILINDRICO

CODICE	ATTACCO	CAP	X	D	L	EUR
DE14-TLR1-L65	14	M3 ÷ M12	19	32	59	
DE16-TLR1-L65	16				65	
DE16-TLR2-L87	16	M8 ÷ M20	31	50	87	
DE25-TLR2-L99	25				99	
DE22-TLR3-L118	22	M14 ÷ M33	48	72	118	
DE25-TLR3-L136	25				136	
DE32-TLR3-L140	32				140	
DE22-TLR4-L156	22	M22 ÷ M48	60	95	156	
DE25-TLR4-L139	25				139	
DE32-TLR4-L156	32				156	
DE35-TLR4-L139	35				159	
DE40-TLR4-L139	40				139	

Portamaschi a cambio rapido con compensazione e trazione pinze ER

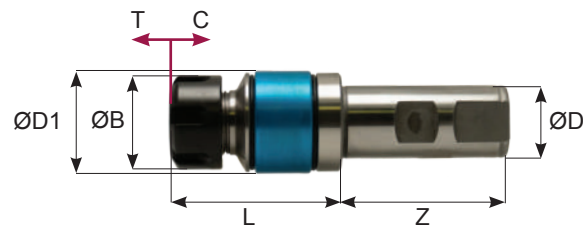
Quick change tap holders Tension / Compression ER collets


WELDON

CODICE	PORTAMASCHIO	SEP	CAP	H	L	T	C	EUR
WS20.H65.ERC16TC	WS20-THTC1-L39	SEP1-ER16	M3 ÷ M12	65	51	7.5	7.5	
WS25.H65.ERC16TC	WS25-THTC1-L39			65	53	7.5	7.5	
WS20.H85.ERC20TC	WS20-THTC1-L39	SEP1-ER20	M3 ÷ M16	85	51	7.5	7.5	
WS25.H85.ERC20TC	WS25-THTC1-L39			85	53	7.5	7.5	
WS20.H89.ERC25TC	WS20-THTC1-L39	SEP1-ER25	M3 ÷ M20	89	51	7.5	7.5	
WS25.H89.ERC25TC	WS25-THTC1-L39			89	53	7.5	7.5	
WS25.H93.ERC25TC	WS25-THTC2-L63	SEP2-ER25	M3 ÷ M20	93	53	12.5	12.5	
WS32.H93.ERC25TC	WS32-THTC2-L63			93	60	12.5	12.5	
WS25.H117.ERC32TC	WS25-THTC2-L63	SEP2-ER32	M3 ÷ M27	117	53	12.5	12.5	
WS32.H117.ERC32TC	WS32-THTC2-L63			117	60	12.5	12.5	
WS25.H128.ERC40TC	WS25-THTC2-L63	SEP2-ER40	M6 ÷ M27	128	53	12.5	12.5	
WS32.H128.ERC40TC	WS32-THTC2-L63			128	60	12.5	12.5	

SYER - Mandrino a micro-compensazione assiale in compressione e trazione

SYER - Quick-change tapping chuck with micro-compensation in compression and tension


SYNCHRO

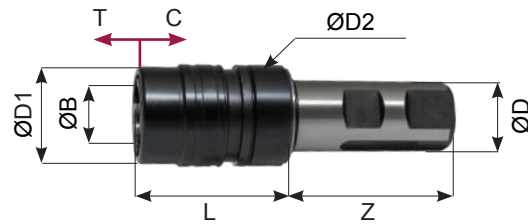
CODICE	T	C	CAP	ØD	ØB	ØD1	Z	L	GHIERA	EUR
WS20-SYER11-L51	0.5	0.5	1 ÷ 7	WS20	19	35	51	51	ER11	
WS20-SYER16M-L57			1 ÷ 10	WS20	22	35	51	57	ER16M	
WS20-SYER16-L57			1 ÷ 10	WS20	32	35	51	57	ER16	
WS20-SYER20-L60			1 ÷ 14	WS20	35	35	51	60	ER20	
WS20-SYER25-L64			1 ÷ 20	WS20	42	35	51	64	ER25	
WS20-SYER32-L79			2 ÷ 22	WS20	50	45	51	79	ER32	
WS25-SYER16M-L57			1 ÷ 10	WS25	22	35	56	57	ER16M	
WS25-SYER16-L57			1 ÷ 10	WS25	32	35	56	57	ER16	
WS25-SYER20-L60			1 ÷ 14	WS25	35	35	56	60	ER20	
WS25-SYER25-L64			1 ÷ 20	WS25	42	35	56	64	ER25	
WS25-SYER32-L79			2 ÷ 22	WS25	50	45	56	79	ER32	
WS32-SYER16M-L57			1 ÷ 10	WS32	22	35	60	57	ER16M	
WS32-SYER16-L57			1 ÷ 10	WS32	32	35	60	57	ER16	
WS32-SYER20-L60			1 ÷ 14	WS32	35	35	60	60	ER20	
WS32-SYER25-L64			1 ÷ 20	WS32	42	35	60	64	ER25	
WS32-SYER32-L79			2 ÷ 22	WS32	50	45	60	79	ER32	
WS32-SYER40-L108.5			3 ÷ 30	WS32	63	62	60	108.5	ER40	

SYNCHRO INCH

CODICE	T	C	CAP	ØD	ØB	ØD1	Z	L	GHIERA	EUR
WS0750-SYER11-2.00	0.02	0.02	1 ÷ 7	0.75	0.74	1.37	2.03	2.00	ER11	
WS0750-SYER16M-2.24			1 ÷ 10	0.75	0.86	1.37	2.03	2.24	ER16M	
WS0750-SYER16-2.24			1 ÷ 10	0.75	1.26	1.37	2.03	2.24	ER16	
WS0750-SYER20-2.36			1 ÷ 14	0.75	1.37	1.37	2.03	2.36	ER20	
WS0750-SYER25-2.52			1 ÷ 20	0.75	1.65	1.37	2.03	2.52	ER25	
WS0750-SYER32-3.11			2 ÷ 22	0.75	1.97	1.77	2.03	3.11	ER32	
WS1000-SYER16M-2.24			1 ÷ 10	1	0.86	1.37	2.28	2.24	ER16M	
WS1000-SYER16-2.24			1 ÷ 10	1	1.26	1.37	2.28	2.24	ER16	
WS1000-SYER20-2.36			1 ÷ 14	1	1.37	1.37	2.28	2.36	ER20	
WS1000-SYER25-2.52			1 ÷ 20	1	1.65	1.37	2.28	2.52	ER25	
WS1000-SYER32-3.11			2 ÷ 22	1	1.97	1.77	2.28	3.11	ER32	
WS1250-SYER16M-2.24			1 ÷ 10	1.25	0.86	1.37	2.28	2.24	ER16M	
WS1250-SYER16-2.24			1 ÷ 10	1.25	1.26	1.37	2.28	2.24	ER16	
WS1250-SYER20-2.36			1 ÷ 14	1.25	1.37	1.37	2.28	2.36	ER20	
WS1250-SYER25-2.52			1 ÷ 20	1.25	1.65	1.37	2.28	2.52	ER25	
WS1250-SYER32-3.11			2 ÷ 22	1.25	1.97	1.77	2.28	3.11	ER32	
WS1250-SYER40-4.27			3 ÷ 30	1.25	2.48	2.44	2.28	4.27	ER40	

SY - Mandrino a micro-compensazione assiale in compressione e trazione

SY - Quick-change tapping chuck with micro-compensation in compression and tension


SYNCHRO

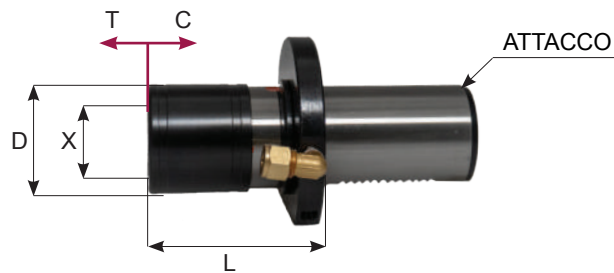
CODICE	T	C	CAP	ØD	ØB	ØD1	ØD2	Z	L	EUR
WS20-SY1-L70	0.5	0.5	M3 ÷ M12	WS20	19	32	35	51	70	
WS25-SY1-L70				WS25	19	32	35	56	70	
WS32-SY1-L70				WS32	19	32	35	60	70	
WS20-SY2-L92			M8 ÷ M20	WS20	31	50	45	53	92	
WS25-SY2-L92				WS25	31	50	45	56	92	
WS32-SY2-L92				WS32	31	50	45	60	92	

SYNCHRO INCH

CODICE	T	C	CAP	ØD	ØB	ØD1	ØD2	Z	L	EUR
WS0750-SY1-2.75	0.02	0.02	M3 ÷ M12	0.75	0.74	1.25	1.37	2.02	2.75	
WS1000-SY1-2.75				1	0.74	1.25	1.37	2.28	2.75	
WS1250-SY1-2.75				1.25	0.74	1.25	1.37	2.03	2.24	
WS0750-SY2-3.62			M8 ÷ M20	0.75	1.22	1.96	1.77	2.02	3.62	
WS1000-SY2-3.62				1	1.22	1.96	1.77	2.28	3.62	
WS1250-SY2-3.62				1.25	1.22	1.96	1.77	2.28	3.62	

Mandrini VDI con compensazione e trazione DIN/69880

DIN/69880 - Tension / Compression tap holders VDI


VDI

CODICE	ATTACCO	CAP	X	D	L	T	C	EUR
VDI20-THTC1-L55	VDI20	M3 ÷ M12	19	36	55	7.5	7.5	
VDI30-THTC1-L55	VDI30							
VDI40-THTC1-L55	VDI40							
VDI50-THTC1-L55	VDI50	M8 ÷ M20	31	53	76	12.5	12.5	
VDI30-THTC2-L76	VDI30							
VDI40-THTC2-L76	VDI40							
VDI50-THTC2-L76	VDI50	M14 ÷ M33	48	78	162	20	20	
VDI30-THTC3-L162	VDI30				122			
VDI40-THTC3-L122	VDI40				108			
VDI50-THTC3-L108	VDI50							
VDI60-THTC3-L108	VDI60	M22 ÷ M48	60	96	122	22.5	22.5	
VDI50-THTC4-L122	VDI50				119			
VDI60-THTC4-L119	VDI60							

Prolunghe per mandrini a calettamento termico

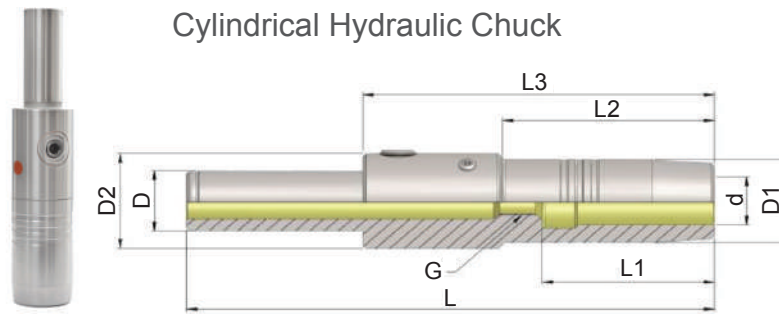
Shrink fit toolholder


PROLUNGHE

CODICE	FAM	d	D1	D2	G	L	EUR
D12-L150-SF03	5	3	8	12	-	150	
D12-L150-SF04		4	8	12	-	150	
D16-L150-SF03		3	10	16	-	150	
D16-L150-SF04		4	10	16	-	150	
D16-L150-SF05		5	10	16	-	150	
D16-L150-SF06		6	10	16	M5	150	
D20-L150-SF03		3	10	20	-	150	
D20-L150-SF04		4	10	20	-	150	
D20-L150-SF05		5	10	20	-	150	
D20-L150-SF06		6	10	20	M5	150	
D20-L150-SF08		8	12	20	M6	150	
D20-L150-SF10		10	14	20	M8	150	
D20-L150-SF12		12	16	20	M10	150	
D25-L150-SF08		8	20	25	M6	150	
D25-L150-SF10		10	20	25	M8	150	
D25-L150-SF12		12	20	25	M10	150	
D25-L150-SF14		14	20	25	M10	150	
D25-L150-SF16		16	22	25	M12	150	
D32-L150-SF10		10	24	32	M8	150	
D32-L150-SF12		12	24	32	M10	150	
D32-L150-SF14		14	27	32	M10	150	
D32-L150-SF16		16	27	32	M12	150	
D32-L150-SF18		18	27	32	M12	150	
D32-L150-SF20		20	27	32	M16	150	

Mandrino cilindrico idraulico

Cylindrical Hydraulic Chuck

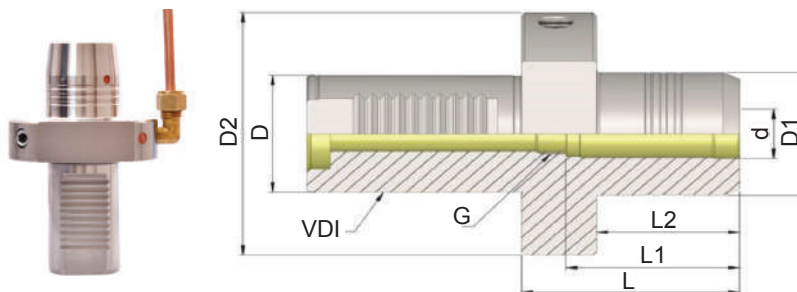


CILINDRICO

CODICE	FAM	d	D	D1	D2	L	L2	L3	EUR
C20-HD06-L150	5	6	20	16	25	150	54	100	
C20-HD08-L150		8	20	18	25	150	54	100	
C20-HD10-L150		10	20	20	25	150	54	100	
C20-HD12-L150		12	20	25	25	150	100	100	
C20-HD16-L150		16	20	27.5	31.5	150	60	100	
C20-HD20-L150		20	20	31.5	31.5	150	100	100	
C32-HD20-L150		20	32	31.5	31.5	150	90	90	
C32-HD20-L200		20	32	31.5	31.5	200	90	90	

Mandrino idraulico VDI DIN 69880

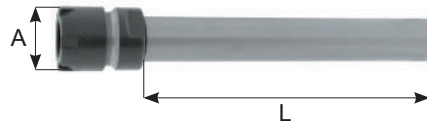
Hydraulic Chuck VDI DIN 69880



VDI

CODICE	FAM	d	D	D1	D2	G	L	L1	L2	EUR
VDI25-HD12-L55	5	12	25	32	58	M10	55	46	37	
VDI30-HD20-L64		20	30	42	68	M16	64	51	42	
VDI40-HD20-L64		20	40	42	83	M20	64	51	42	
VDI30-HD32-L86		32	30	64	68	-	86	-	64	
VDI40-HD32-L86		32	40	64	83	-	86	-	64	

Portapinze cilindrici MINI
Straight shank collet chuck



ER8M

CAP 1 ÷ 5mm

CODICE	FAM	CAP	L	A	EUR
D6.L45.ERC8M *	1	1 ÷ 5	45	12	
D8.L60.ERC8M *			55		
D8.L80.ERC8M *			80		
D8.L100.ERC8M *			100		
D10.L80.ERC8M *			80		
D10.L100.ERC8M *			100		
D12.L80.ERC8M *			80		
D12.L100.ERC8M *			100		
D12.L130.ERC8M *			130		
D12.L160.ERC8M *			160		
D12.L200.ERC8M *			200		

* Portapinze cilindrici senza passaggio del refrigerante.
Without coolant bore.

Compatibili con ghiera mini esagonali.
Compatible with mini hexagonal nuts.

ER11M

CAP 1 ÷ 7mm

CODICE	FAM	CAP	L	A	EUR
D6.L45.ERC11M *	1	1 ÷ 7	45	16	
D8.L45.ERC11M *			45		
D10.L60.ERC11M *			60		
D10.L100.ERC11M *			100		
D12.L80.ERC11M			80		
D12.L100.ERC11M *			100		
D12.L160.ERC11M *			160		
D16.L45.ERC11M			45		
D16.L60.ERC11M			60		
D16.L100.ERC11M			100		
D16.L130.ERC11M			130		
D16.L160.ERC11M			160		
D16.L200.ERC11M			200		
D16.L250.ERC11M			250		
D16.L300.ERC11M *			300		
D20.L100.ERC11M			100		
D20.L130.ERC11M			130		

Kit mandrino portapinze

Kit ER toolholder

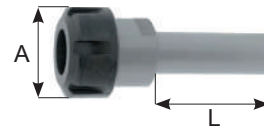
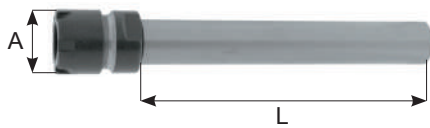


CODICE	FAM	CAP	EUR
BXD12.L100.8M	1	1 ÷ 5	
BXD12.L130.8M			
BXD12.L160.8M			
Chiave - CH8M Pinze - Ø1 a Ø5 x 0.5mm (9 Unità) Portapinze			

CODICE	FAM	CAP	EUR
BXD12.L100.11M	1	1 ÷ 7	
BXD16.L100.11M			
BXD16.L130.11M			
BXD16.L160.11M			
Chiave - CH11M Pinze - Ø1 a Ø7 x 0.5mm (13 Unità) Portapinze			

DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

Portapinze cilindrici
Straight shank collet chuck



ER16M

CAP 1 ÷ 10mm

CODICE	FAM	CAP	L	A	EUR
D10.L80.ERC16M	1	1 ÷ 10	80	22	
D12.L80.ERC16M			80		
D16.L60.ERC16M			60		
D16.L80.ERC16M			80		
D16.L100.ERC16M			100		
D16.L130.ERC16M			130		
D16.L160.ERC16M			160		
D16.L200.ERC16M *			200		
D20.L60.ERC16M			60		
D20.L100.ERC16M			100		
D20.L130.ERC16M			130		
D20.L160.ERC16M			160		
D20.L200.ERC16M			200		
D20.L300.ERC16M *			300		
D25.L60.ERC16M			60		
D25.L100.ERC16M			100		
D25.L130.ERC16M			130		
D25.L160.ERC16M	160				

ER16

CAP 1 ÷ 10mm

CODICE	FAM	CAP	L	A	EUR
D16.L60.ERC16	1	1 ÷ 10	60	32	
D16.L160.ERC16			160		
D20.L60.ERC16			60		
D20.L100.ERC16			100		
D20.L160.ERC16			160		

* Portapinze cilindrici senza passaggio del refrigerante.
Without coolant bore.

Compatibili con ghiera mini esagonali.
Compatible with mini hexagonal nuts.

Compatibili con ghiera esagonali.
Compatible with hexagonal nuts.

Kit mandrino portapinze

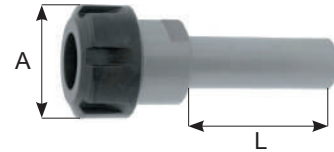
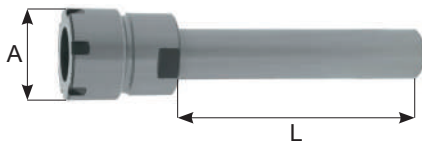
Kit ER toolholder



CODICE	FAM	CAP	EUR
BXD20.L100.16M	1	1 ÷ 10	
BXD20.L130.16M			
BXD20.L160.16M			
BXD20.L200.16M			
Chiave - CH16M Pinze - Ø 1 a Ø 10 x 1.0 mm (10 Unità) Portapinze			

DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

Portapinze cilindrici
Straight shank collet chuck



ER20M

CAP 1 ÷ 13mm

CODICE	FAM	CAP	L	A	EUR
D16.L100.ERC20M	1	1 ÷ 14	100	28	
D16.L130.ERC20M			130		
D16.L160.ERC20M			160		
D20.L60.ERC20M			60		
D20.L100.ERC20M			100		
D20.L130.ERC20M			130		
D20.L160.ERC20M			160		
D20.L200.ERC20M			200		
D25.L60.ERC20M			60		
D25.L130.ERC20M			130		
D25.L160.ERC20M			160		
D25.L200.ERC20M			200		
D25.L300.ERC20M			300		

ER20

CAP 1 ÷ 13mm

CODICE	FAM	CAP	L	A	EUR
D20.L60.ERC20	1	1 ÷ 14	60	35	
D20.L100.ERC20			100		
D20.L130.ERC20			130		
D20.L160.ERC20			160		
D25.L100.ERC20			100		

Compatibili con ghiera mini esagonali.
Compatible with mini hexagonal nuts.

Compatibili con ghiera esagonali.
Compatible with hexagonal nuts.

Kit mandrino portapinze

Kit ER toolholder

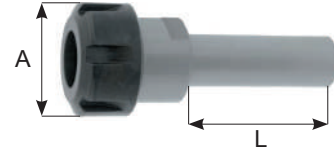
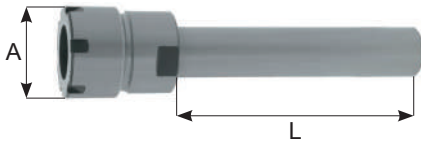


CODICE	FAM	CAP	EUR
BXD20.L100.20M	1	2 ÷ 13	
BXD20.L130.20M			
BXD20.L160.20M			
BXD20.L200.20M			

Chiave - CH20M
Pinze - Ø 2 a Ø 13 x 1.0 mm (12 Unità)
Portapinze

DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

Portapinze cilindrici
Straight shank collet chuck



ER25M

CAP 1 ÷ 20mm

CODICE	FAM	CAP	L	A	EUR
D20.L60.ERC25M	1	1 ÷ 20	60	35	
D20.L100.ERC25M			100		
D20.L130.ERC25M			130		
D20.L160.ERC25M			160		
D20.L200.ERC25M			200		
D25.L60.ERC25M			60		
D25.L100.ERC25M			100		
D25.L130.ERC25M			130		
D25.L160.ERC25M			160		
D25.L250.ERC25M			250		

Compatibili con ghiera mini esagonali.
Compatible with mini hexagonal nuts.

Compatibili con ghiera esagonali.
Compatible with hexagonal nuts.

ER25

CAP 1 ÷ 20mm

CODICE	FAM	CAP	L	A	EUR
D20.L60.ERC25	1	1 ÷ 20	60	42	
D20.L80.ERC25			80		
D20.L100.ERC25			100		
D20.L130.ERC25			130		
D20.L160.ERC25			160		
D25.L60.ERC25			60		
D25.L100.ERC25			100		
D25.L130.ERC25			130		
D25.L160.ERC25			160		
D32.L80.ERC25			80		
D32.L100.ERC25			100		
D40.L80.ERC25			80		

Kit mandrino portapinze

Kit ER toolholder



CODICE	FAM	CAP	EUR
BXD20.L100.25M	1	2 ÷ 16	
BXD20.L130.25M			
BXD20.L160.25M			
BXD20.L200.25M			
BXD25.L100.25M			
BXD25.L160.25M			

Chiave - CH25M
Pinze - Ø 2 a Ø 16 x 1.0 mm (15 Unità)
Portapinze

Kit mandrino portapinze

Kit ER toolholder

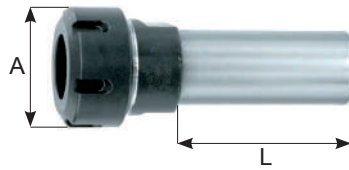


CODICE	FAM	CAP	EUR
BXD25.L100.25	1	2 ÷ 16	
BXD32.L80.25			

Chiave - CH25S o CH25SE
Pinze - Ø 2 a Ø 16 x 1.0 mm (15 Unità)
Portapinze

DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

Portapinze cilindrici
Straight shank collet chuck



ER32

CAP 2 ÷ 22mm

CAP 2 ÷ 22mm

CODICE	FAM	CAP	L	A	EUR	CODICE	FAM	CAP	L	A	EUR
D20.L60.ERC32	1	2 ÷ 22	60	50		D32.L60.ERC32	1	2 ÷ 22	60	50	
D20.L100.ERC32			100			D32.L80.ERC32			80		
D20.L130.ERC32			130			D32.L100.ERC32			100		
D20.L160.ERC32			160			D32.L130.ERC32			130		
D25.L60.ERC32			60			D32.L160.ERC32			160		
D25.L100.ERC32			100			D40.L80.ERC32			80		
D25.L130.ERC32			130			D40.L130.ERC32			130		
D25.L160.ERC32			160			D40.L160.ERC32			160		

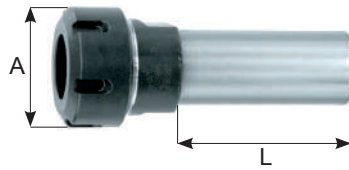
Kit mandrino portapinze
Kit ER toolholder



CODICE	FAM	CAP	EUR
BXD20.L80.32-6	1	6 ÷ 25	
BXD25.L80.32-6			
BXD32.L80.32-6			
Chiave - CH32S Pinze - Ø6 - Ø8 - Ø10 - Ø12 - 16 - Ø 20 - Ø25 (6 Unità) Portapinze			

DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

Portapinze cilindrici
Straight shank collet chuck



ER40

CAP 3 ÷ 30mm

CODICE	FAM	CAP	L	A	EUR
D25.L60.ERC40	1	3 ÷ 30	60	63	
D25.L100.ERC40			100		
D32.L80.ERC40			80		
D32.L100.ERC40			100		
D32.L130.ERC40			130		
D40.L80.ERC40			80		
D40.L130.ERC40			130		
D40.L160.ERC40			160		
D50.L120.ERC40			120		
D50.L160.ERC40			160		
D60.L160.ERC40			160		

ER50

CAP 6 ÷ 34mm

CODICE	FAM	CAP	L	A	EUR
D40.L160.ERC50	1	6 ÷ 34	160	78	
D50.L170.ERC50			170		
D60.L170.ERC50			170		

Kit mandrino portapinze

Kit ER tooholder



CODICE	FAM	CAP	EUR
BXD25.L80.40-23	1	4 ÷ 26	
BXD32.L80.40-23			
BXD40.L80.40-23			

Chiave - CH40S + Portapinze
Pinze - Ø 4 a Ø 26 x 1.0 mm (23 Unità)

Cassetta per pinze

Kit in box



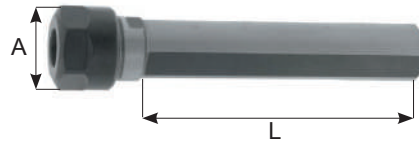
CODICE	EUR
BX.ERC50-12	
D. 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30	
D. 32 - 34	



DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

Portapinze cilindrici con piano di bloccaggio

Collet chuck with flat


STANDARD

CODICE	FAM	CAP	L	A	EUR
D20P.L80.ERC25 *	1	1 ÷ 20	80	42	
D25P.L80.ERC25 *			80	42	
D32P.L80.ERC25 *			80	42	
D25P.L80.ERC32 *		2 ÷ 22	80	50	
D32P.L80.ERC32 *			80	50	
D40P.L80.ERC32			80	50	
D25P.L80.ERC40		3 ÷ 30	80	63	
D32P.L80.ERC40			80	63	
D40P.L80.ERC40			80	63	

* **Compatibili con ghiera esagonali.**
 Compatible with hexagonal nuts.

Portapinze bilaterali

Double ended collet chuck

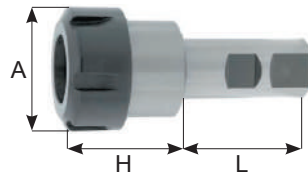

MINI BILATERALI

CODICE	FAM	CAP	L	A	H	EUR
D20P.L37.ERC16MP-16M	1	1 ÷ 10	37	22	80	
D20P.L57.ERC16MP-16M			57		100	
D20P.L67.ERC16MP-16M			67		110	
D22P.L47.ERC16MP-16M			47		90	
D22P.L67.ERC16MP-16M			67		110	
D25P.L47.ERC16MP-16M			47		90	
D25P.L67.ERC16MP-16M			67		110	
D32P.L57.ERC20MP-20M		1 ÷ 14	57	28	105	

DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
 AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

Portapinze con attacco Weldon

Weldon shank collet chuck

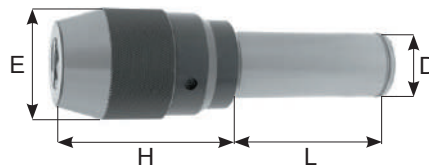

WELDON

CODICE	FAM	CAP	L	A	H	EUR
WE20.L50.ERC16 *	1	1 ÷ 10	50	28	33	
WE20.L50.ERC25 *		1 ÷ 20	50	42	40	
WE25.L56.ERC25 *			56		37	
WE25.L56.ERC32		2 ÷ 22	56	50	52	
WE32.L60.ERC32			60		38	
WE40.L74.ERC32			74		31	
WE32.L60.ERC40		3 ÷ 30	60	63	61	

* **Compatibili con ghiera esagonali.**
 Compatible with hexagonal nuts.

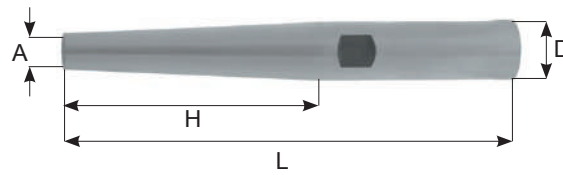
Mandriini portapunte cilindrici rotazione destra

Straight shank drill chuck right spin


DCK

CODICE	FAM	D	RANGE	L	H	E	EUR
D20.L60.DCK8S	1	20	0.5 ÷ 8	60	61	37.5	
D20.L60.DCK13S		20	1 ÷ 13	60	81	50.5	
D20.L60.DCK16S		20	2.5 ÷ 16	60	85	57	
D25.L79.DCK13S		25	1 ÷ 13	79	81	50.5	
D25.L80.DCK16S		25	2.5 ÷ 16	80	85	57	
D32.L81.DCK13S		32	1 ÷ 13	81	81	50.5	
D32.L82.DCK16S		32	2.5 ÷ 16	82	85	57	

Portapinze cilindrico MINI
Collet chuck extensions MINI



CILINDRICO

CODICE	FAM	D	L	H	A	EUR
D16-L120-P8	1	16	120	48	12	
D16-L150-P8		16	150	48	12	
D16-L200-P8		16	200	48	12	
D20-L120-P8		20	120	76.5	12	
D20-L150-P8		20	150	86	12	
D25-L120-P8		25	120	60	14	
D25-L150-P8		25	150	60	14	
D25-L200-P8		25	200	60	14	

Si fornisce con chiave di bloccaggio esagonale 5 mm.
Are supplied with T-handle key exagonal 5 mm.

Pinza P8
Collet P8



Chiavi a T esagonale
T-handle key exagonal

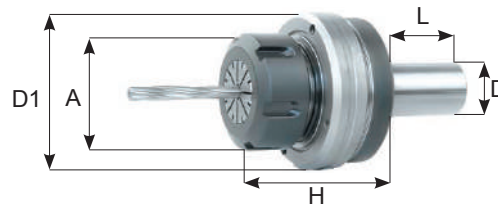


P8

CODICE	FAM	EUR
P8-D3	1	
P8-D4		
P8-D5		
P8-D6		

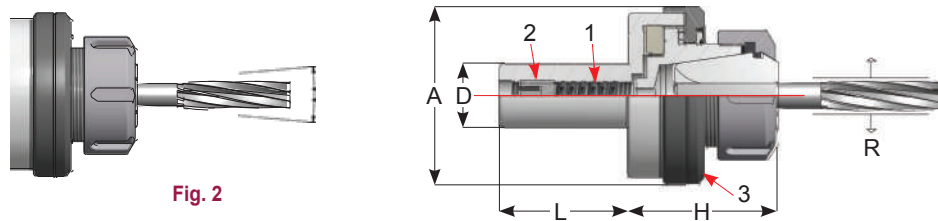
CODICE	FAM	EUR
CH.EX5	1	

Porta alesatori flottanti con passaggio del refrigerante
Floating reamer holder with coolant flow



CILINDRICO

CODICE	FAM	D	PINZA	CAP	FLOT	A	H	D1	L	EUR
D16.ER11.L46	1	16	ER11	1 ÷ 7	± 1 mm	22	40	42	46	
D20.ER11.L46		20								
D25.ER11.L46		25								
D16.ER16.L46		16	ER16	1 ÷ 10	± 1 mm	28	44	42	46	
D20.ER16.L46		20								
D25.ER16.L46		25								
D16.ER20.L46		16	ER20	1 ÷ 14	± 1 mm	34	50	50	46	
D20.ER20.L46		20								
D25.ER20.L46		25								
D16.ER25.L46		16	ER25	1 ÷ 20	± 1 mm	42	53	57	46	
D20.ER25.L46		20								
D25.ER25.L46		25								
D32.ER25.L46		32	ER32	2 ÷ 22	± 1.5 mm	50	53	57	50	
D25.ER32.L50		25								
D32.ER32.L50		32								
D25.ER40.L50		25	ER40	3 ÷ 30	± 1.5 mm	63	64	79	50	
D32.ER40.L50	32									



R = Capacità di movimento radiale
R = Radial stroke

L'alesatore oscilla su un cuscinetto a sfere per compensare gli errori di allineamento tra il mandrino della macchina e il pezzo in lavorazione.

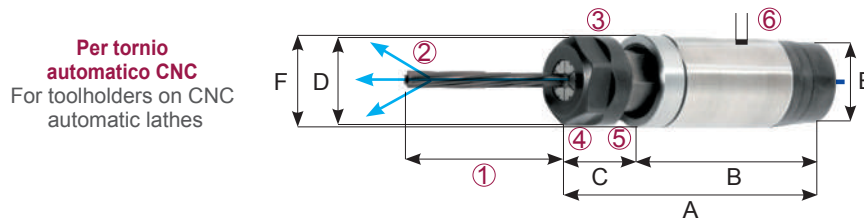
- La spinta della molla 1 mantiene l'utensile centrato anche in posizione orizzontale.
- La vite 2 regola la pressione della molla per regolare il movimento radiale.
- Allentando di 0,1/0,2mm la ghiera 3 si permette all'alesatore di avere un movimento pendolare. (Fig 2)

Free moving ball bearing drive, permit to reamer to follow drilled hole of workpiece.

- Pressure of spring 1 keeps reamer centered, even in horizontal position.
- Screw 2 allows adjustment of floating level.
- Unscrewing nut 3 for 0,1/0,2mm, the reamer has a pendulum float. (Fig 2)

Porta alesatori flottanti ad alta precisione con passaggio del refrigerante

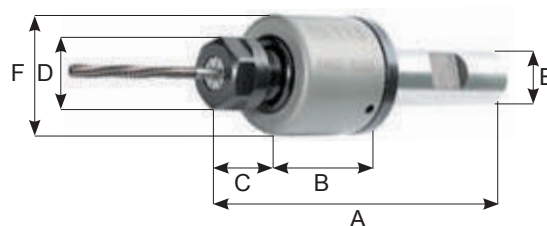
Floating reamer holder with coolant flow - super precision



CODICE	FAM	E	B	PINZA	CAP	FLOT	D	C	A	F	EUR
E1812S190	10	3/4"	45	ER11HP	1 ÷ 7	± 0.2 mm	19	20	65	19.05	
E1812S200		20								20	
E1812S220		22								22	
E1812S254		1"								25.4	

- ① - Lunghezza fuori dell'utensile 30-65 mm (secondo Ø)
- ② - Refrigerazione interna
- ③ - Raggio di apertura della ghiera
- ④ - Ghiera e pinza oscillazione 0.1-0.2 mm - Capacità di 1-7 ER11 HP
- ⑤ - Vite di regolazione del portamaschio
- ⑥ - Vite di fissaggio della macchina

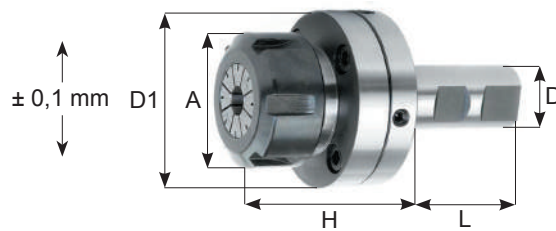
- ① - Length of tool outside the toolholder 30 - 65 mm (depending Ø)
- ② - With through coolant, for blind or through hole
- ③ - Holding surface for nut
- ④ - Nut and collets ER11 HP Oscillation 0.1-0.2 mm Range 1-7 mm
- ⑤ - Screw to determine the fixing length of the reamer
- ⑥ - Screw to fix the PHA in the tool holder



CODICE	FAM	E	B	PINZA	CAP	FLOT	D	C	A	F	EUR
E18091000	10	10	34	ER8HP	1 ÷ 5	± 0.1 mm	13.5	16	90	19.5	
E18121200		12									97
E18121600		16									100
E18122000		20	32	ER11HP	1 ÷ 7	± 0.3 mm	19	20	100	31	
E18161600		16									85
E18162600		20									85
E18162500		25	35	ER16HP	1 ÷ 10	± 0.3 mm	35	20	85	50	
E18201600		16									105
E18202000		20									85
E18202500		25	35	ER20HP	1 ÷ 13	± 0.3 mm	35	20	85	50	
E18202540		1"									105

Portapinze radiale regolabile

Adjustable collet chuck



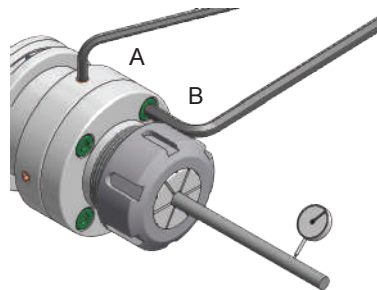
Regolazione 0.01 mm
Adjustment 0.01mm

WELDON

CODICE	FAM	CAP	L	A	D1	H	EUR
D25P.L70.ERC25-RG	1	1 ÷ 20	70	42	66	61	
D25P.L70.ERC32-RG		2 ÷ 22	70	50	66	62	
D32P.L70.ERC32-RG		3 ÷ 30	70	63	76	66	
D32P.L70.ERC40-RG							
D40P.L70.ERC40-RG							

Centratura regolabile 0,01mm

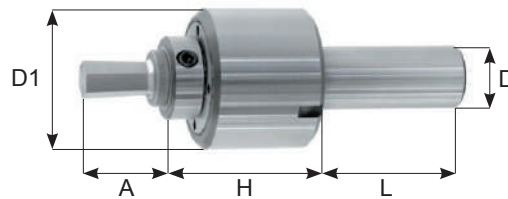
Adjustable runout 0,01mm



Allentare le viti B e regolare la centratura tramite le viti A.
Loosen screws B and use screws A for radial adjustment.

DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

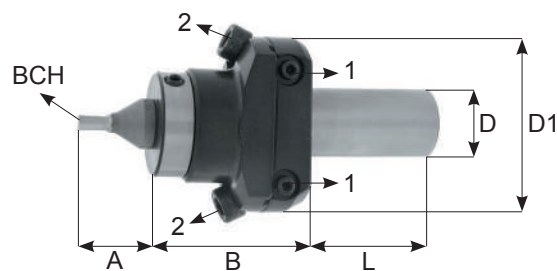
Mandrini porta brocche cilindrici
Rotating broach toolholder



CILINDRICO

CODICE	FAM	D	H	L	D1	A	BCH	EUR
D8.L35.BCH5	1	8	34	35	22	10	5	
D10.L35.BCH5		10	34	35	22	10	5	
D12.L35.BCH5		12	34	35	22	10	5	
D16.L35.BCH5		16	34	35	22	10	5	
D20.L46.BCH5		20	34	46	22	10	5	
D10.L35.BCH8		10	38	35	32	18	8	
D12.L35.BCH8		12	38	35	32	18	8	
D16.L35.BCH8		16	38	35	32	18	8	
D20.L50.BCH8		20	38	50	32	18	8	
D25.L50.BCH8		25	38	50	32	18	8	
D16.L50.BCH12		16	46	50	44	25	12	
D20.L50.BCH12		20	46	50	44	25	12	
D25.L50.BCH12		25	46	50	44	25	12	
D32.L50.BCH12		32	46	50	44	25	12	
D20.L50.BCH16		20	76	50	58	40	16	
D25.L50.BCH16		25	76	50	58	40	16	
D32.L50.BCH16		32	76	50	58	40	16	
D40.L80.BCH16		40	76	80	58	40	16	

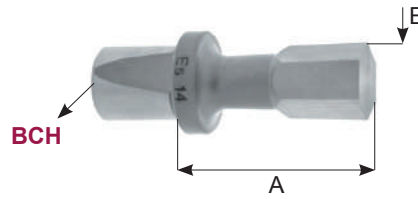
Mandrini porta brocche cilindrici regolabili
Adjustable broach toolholder



CILINDRICO

CODICE	FAM	D	B	L	D1	A	BCH	EUR
D10.L35.BCH8R	1	10	34	35	50	18	8	
D12.L35.BCH8R		12	34	35	50	18	8	
D16.L35.BCH8R		16	34	35	50	18	8	
D20.L46.BCH8R		20	34	46	50	18	8	
D25.L46.BCH8R		25	34	46	50	18	8	
D20.L50.BCH12R		20	52	50	62	25	12	
D25.L50.BCH12R		25	52	50	62	25	12	
D32.L50.BCH12R		32	52	50	62	25	12	

Brocche esagonali
Exagonal broach



BCH5

CODICE	FAM	A	EUR
BCH5.E1.5	1	10	
BCH5.E2		10	
BCH5.E2.5		10	
BCH5.E3		10	
BCH5.E3.5		10	
BCH5.E4		10	
BCH5.E5		10	
BCH5.E5.5		10	
BCH5.E6		10	

BCH8

CODICE	FAM	A	EUR
BCH8.E1.5	1	18	
BCH8.E2		18	
BCH8.E2.5		18	
BCH8.E3		18	
BCH8.E3.5		18	
BCH8.E4		18	
BCH8.E5		18	
BCH8.E5.5		18	
BCH8.E6		18	
BCH8.E7		18	
BCH8.E8		18	

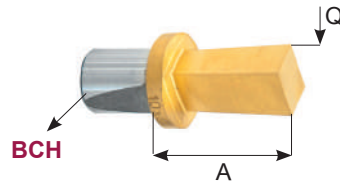
BCH12

CODICE	FAM	A	EUR
BCH12.E1.5	1	25	
BCH12.E2		25	
BCH12.E2.5		25	
BCH12.E3		25	
BCH12.E3.5		25	
BCH12.E4		25	
BCH12.E5		25	
BCH12.E5.5		25	
BCH12.E6		25	
BCH12.E7		25	
BCH12.E8		25	
BCH12.E9		25	
BCH12.E10		25	
BCH12.E11		25	
BCH12.E12	25		
BCH12.E13	25		
BCH12.E14	25		

BCH16

CODICE	FAM	A	EUR
BCH16.E3	1	40	
BCH16.E3.5		40	
BCH16.E4		40	
BCH16.E5		40	
BCH16.E6		40	
BCH16.E7		40	
BCH16.E8		40	
BCH16.E9		40	
BCH16.E10		40	
BCH16.E11		40	
BCH16.E12		40	
BCH16.E13		40	
BCH16.E14		40	
BCH16.E15		40	
BCH16.E16		40	
BCH16.E17		40	
BCH16.E18		40	
BCH16.E19		40	
BCH16.E20		40	
BCH16.E21		40	
BCH16.E22		40	
BCH16.E23		40	
BCH16.E24		40	
BCH16.E25		40	

Brocche quadre
Square broach



BCH5

CODICE	FAM	A	EUR
BCH5.Q3	1	10	
BCH5.Q4		10	
BCH5.Q5		10	
BCH5.Q6		10	

BCH8

CODICE	FAM	A	EUR
BCH8.Q2	1	18	
BCH8.Q3		18	
BCH8.Q4		18	
BCH8.Q5		18	
BCH8.Q5.5		18	
BCH8.Q6		18	
BCH8.Q7		18	
BCH8.Q7		18	

BCH12

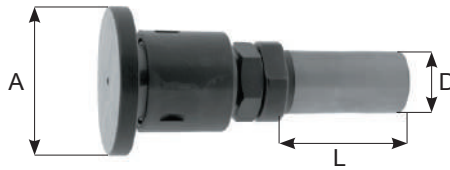
CODICE	FAM	A	EUR
BCH12.Q3	1	25	
BCH12.Q4		25	
BCH12.Q5		25	
BCH12.Q5.5		25	
BCH12.Q6		25	
BCH12.Q7		25	
BCH12.Q8		25	
BCH12.Q9		25	
BCH12.Q10		25	
BCH12.Q11		25	
BCH12.Q12		25	
BCH12.Q13		25	

BCH16

CODICE	FAM	A	EUR
BCH16.Q4	1	40	
BCH16.Q5		40	
BCH16.Q6		40	
BCH16.Q7		40	
BCH16.Q8		40	
BCH16.Q9		40	
BCH16.Q10		40	
BCH16.Q11		40	
BCH16.Q12		40	
BCH16.Q13		40	
BCH16.Q14		40	
BCH16.Q15		40	
BCH16.Q16		40	
BCH16.Q17		40	
BCH16.Q18		40	
BCH16.Q19		40	
BCH16.Q20	40		

BROCCE TORX CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI
BROACH TORX CALL YOUR DEALER FOR MORE DETAILS

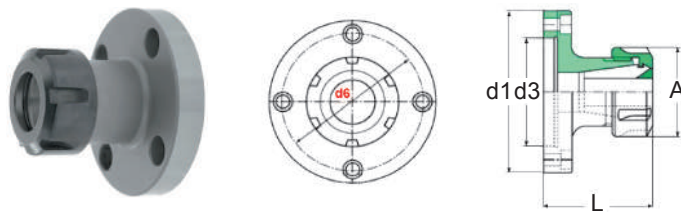
Portabarra regolabile cilindrico con compensazione
Damped rotary adjustable bar-stop



CILINDRICO

CODICE	FAM	D	L	A	EUR
D25.SAS.56	1	25	50	56	
D32.SAS.56		32	50	56	

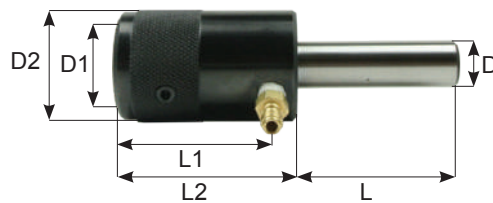
Portapinze con flangia
Flange er collet holder



FLANGE

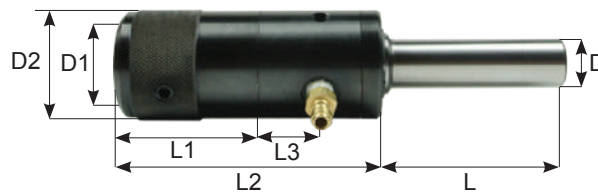
CODICE	FAM	A	d1	d3	d6	L	EUR
FLB50.ERC32	1	50	50	30	40-M6	58	
FLB90.ERC32		50	90	41.2	70-M8	72	
FLB110.ERC40		63	110	65.2	86-M8	87	
FLB110.ERC50		78	110	65.2	86-M8	106	

Dispositivo fisso per lubrificazione centrale per torretta da tornio - CNC
Oil-feed holders - CNC



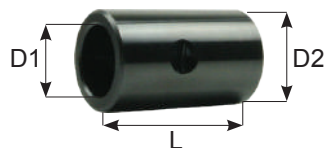
CODICE	FAM	D	D1	L1	L2	D2	L	EUR
EVT316	7	16	16	40	55	33	47	
EVT325		25	25	50	70	46	60	
EVT335		35	35	60	80	58	70	

Dispositivo rotante per lubrificazione centrale attacco cilindrico
Rotating oil-feed holders cylindrical



CODICE	FAM	D	D1	L1	L2	D2	L3	EUR
EVT616	7	16	16	40	85	32	24	
EVT620		20	20	50	109	46	31	
EVT625		25	25	50	109	46	31	

Bussole di riduzione
Reduction sleeves



CODICE	FAM	D1	D2	L	EUR
EVT25/16	7	16	25	50	
EVT25/20		20	25	50	
EVT35/25		25	35	60	

Condizioni di lavoro
Working conditions

Ø	PRESSIONE	RPM
16	Min 4 BAR	6740
	Max 17 BAR	2000
25	Min 5 BAR	4600
	Max 17 BAR	1350
35	Min 5 BAR	2700
	Max 17 BAR	850



MANDRINI ATTACCO CONO MORSE DIN/228 E DIN/238

MORSE TAPER COLLET CHUCKS
DIN/228 AND DIN/238

3

MANDRINI ATTACCO CONO MORSE DIN/228 E DIN/238

MORSE TAPER COLLET CHUCKS
DIN/228 AND DIN/238



MANDRINI A CAMBIO RAPIDO
QUICK CHANGE TAPPING CHUCK

3A



MANDRINI RIGIDI
RIGID TAPPING CHUCK

3B



MANDRINI RIGIDI CON FLOTTAMENTO
FLOATING TAPPING CHUCK



MANDRINI TRANSFER CONO MORSE
TAPPING CHUCK FOR TRANSFER CONO MORSE

3C



MANDRINI RIGIDI DIN/238 - JACOBS
RIGID TAPPING CHUCK DIN 238 - JACOBS

3D



MANDRINI TRANSFER DIN/238
TAPPING CHUCK FOR TRANSFER DIN/238

3E



MASCHIATRICE AD INVERSIONE
TAPPING ATTACHMENTS REVERSAL

3F



MANDRINI A CAMBIO RAPIDO QC
QUICK CHANGE TAPPING CHUCK QC

3G



MANDRINI PORTAPINZE
COLLET CHUCK

3H



MANDRINI AUTOSERRANTI
DRILL CHUCK

3I



RIDOTTORI CONO MORSE
MORSE TAPER ADAPTERS

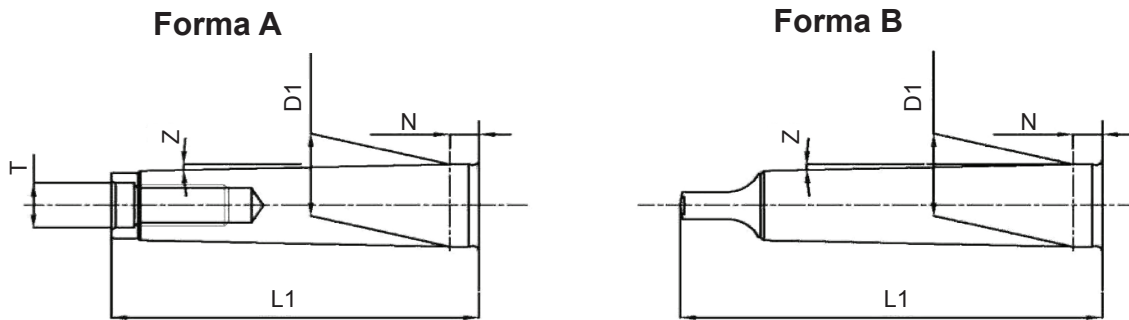
3J



DISPOSITIVO ROTANTE
ROTATING HOLDERS

3K

Tabella tecnica
Technical table

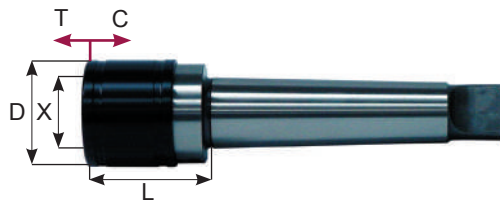


TIPO	L1	N	D1	Z	T
CM0 / A	50	3	9,045	1° 29' 27"	--
CM1 / A	53,5	3,5	12,065	1° 25' 43"	M6
CM2 / A	64	5	17,780	1° 25' 50"	M10
CM3 / A	81	5	23,825	1° 26' 16"	M12
CM4 / A	102,5	6,5	31,267	1° 29' 15"	M16
CM5 / A	129,5	6,5	44,399	1° 30' 26"	M20

TIPO	L1	N	D1	Z	T
CM0 / B	56,5	3	9,045	1° 29' 27"	--
CM1 / B	62	3,5	12,065	1° 25' 43"	--
CM2 / B	75	5	17,780	1° 25' 50"	--
CM3 / B	94	5	23,825	1° 26' 16"	--
CM4 / B	117,5	6,5	31,267	1° 29' 15"	--
CM5 / B	149,5	6,5	44,399	1° 30' 26"	--

Mandrini con morse con compressione e trazione

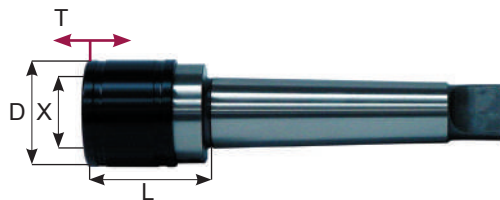
Quick change tapping chucks Tension / Compression


TIPO - B

CODICE	CAP	CM	X	D	L	T	C	EUR
CM2B-THTC0-L44	M1 ÷ M10	CM2	13	26	44	6.5	6.5	
CM2B-THTC1-L46	M3 ÷ M12	CM2	19	36	46	7.5	7.5	
CM3B-THTC1-L46		CM3						
CM3B-THTC2-L70	M8 ÷ M20	CM3	31	53	70	12.5	12.5	
CM4B-THTC2-L71		CM4			71			
CM4B-THTC3-L104	M14 ÷ M33	CM4	48	78	104	20	20	
CM5B-THTC3-L104		CM5						
CM5B-THTC4-L115	M22 ÷ M48	CM5	60	96	115	22.5	22.5	

Mandrini con morse solo trazione

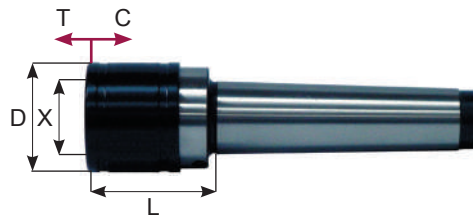
Quick change tapping chucks Tension / Compression


TIPO - B

CODICE	CAP	CM	X	D	L	T	C	EUR
CM2B-THT0-L44	M1 ÷ M10	CM2	13	26	44	6.5	0	
CM2B-THT1-L46	M3 ÷ M12	CM2	19	36	46	7.5	0	
CM3B-THT1-L46		CM3						
CM3B-THT2-L70	M8 ÷ M20	CM3	31	53	70	12.5	0	
CM4B-THT2-L71		CM4			71			
CM4B-THT3-L104	M14 ÷ M33	CM4	48	78	104	20	0	
CM5B-THT3-L104		CM5						
CM5B-THT4-L115	M22 ÷ M48	CM5	60	96	115	22.5	0	

Mandrini con morse con compressione e trazione

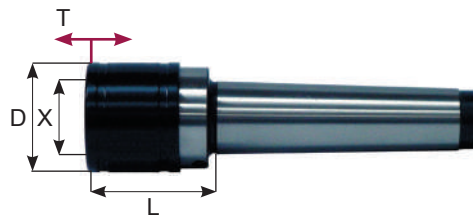
Quick change tapping chucks Tension / Compression


TIPO - A

CODICE	CAP	CM	X	D	L	T	C	EUR
CM2A-THTC0-L44	M1 ÷ M10	CM2	13	26	44	6.5	6.5	
CM2A-THTC1-L46	M3 ÷ M12	CM2	19	36	46	7.5	7.5	
CM3A-THTC1-L46		CM3						
CM3A-THTC2-L70	M8 ÷ M20	CM3	31	53	70	12.5	12.5	
CM4A-THTC2-L71		CM4			71			
CM4A-THTC3-L104	M14 ÷ M33	CM4	48	78	104	20	20	
CM5A-THTC3-L104		CM5						
CM5A-THTC4-L115	M22 ÷ M48	CM5	60	96	115	22.5	22.5	

Mandrini con morse solo trazione

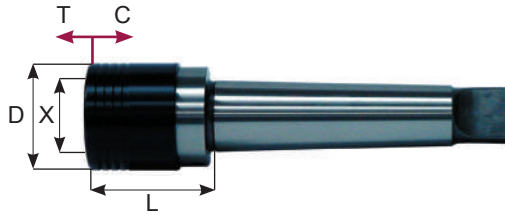
Quick change tapping chucks Tension / Compression


TIPO - A

CODICE	CAP	CM	X	D	L	T	C	EUR
CM2A-THT0-L44	M1 ÷ M10	CM2	13	26	44	6.5	0	
CM2A-THT1-L46	M3 ÷ M12	CM2	19	36	46	7.5	0	
CM3A-THT1-L46		CM3						
CM3A-THT2-L70	M8 ÷ M20	CM3	31	53	70	12.5	0	
CM4A-THT2-L71		CM4			71			
CM4A-THT3-L104	M14 ÷ M33	CM4	48	78	104	20	0	
CM5A-THT3-L104		CM5						
CM5A-THT4-L115	M22 ÷ M48	CM5	60	96	115	22.5	0	

Mandrini con morse con compressione e trazione CN 360°

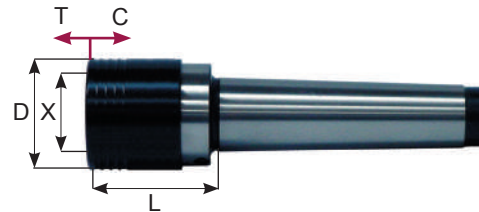
Quick change tapping chucks Tension / Compression CN 360°


TIPO - B

CODICE	CAP	CM	X	D	L	T	C	EUR
CM2B-GCTC1-L52	M3 ÷ M12	CM2	19	39	52	7.5	7.5	
CM3B-GCTC1-L52		CM3			52			
CM2B-GCT1-L44.5		CM2			44.5	12.5	0	
CM3B-GCT1-L44.5		CM3			44.5			
CM3B-GCTC2-L75	M8 ÷ M20	CM3	31	60	75	10	10	
CM4B-GCTC2-L76		CM4			76			
CM3B-GCT2-L65		CM3			65	16.5	0	
CM4B-GCT2-L66		CM4			66			
CM4B-GCTC3-L107	M14 ÷ M33	CM4	48	86	107	17.5	17.5	
CM5B-GCTC3-L107.5		CM5			107.5			
CM4B-GCT3-L89.5		CM4			89.5	35	0	
CM5B-GCT3-L90		CM5			90			

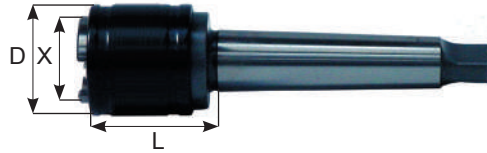
Mandrini con morse con compressione e trazione CN 360°

Quick change tapping chucks Tension / Compression CN 360°


TIPO - A

CODICE	CAP	CM	X	D	L	T	C	EUR
CM2A-GCTC1-L52	M3 ÷ M12	CM2	19	39	52	7.5	7.5	
CM3A-GCTC1-L52		CM3			52			
CM2A-GCT1-L44.5		CM2			44.5	12.5	0	
CM3A-GCT1-L44.5		CM3			44.5			
CM3A-GCTC2-L75	M8 ÷ M20	CM3	31	60	75	10	10	
CM4A-GCTC2-L76		CM4			76			
CM3A-GCT2-L65		CM3			65	16.5	0	
CM4A-GCT2-L66		CM4			66			
CM3A-GCTC3-L106	M14 ÷ M33	CM3	48	86	106	17.5	17.5	
CM4A-GCTC3-L107		CM4			107			
CM5A-GCTC3-L107.5		CM5			107.5	35	0	
CM3A-GCT3-L88.5		CM3			88.5			
CM4A-GCT3-L89.5		CM4			89.5			
CM5A-GCT3-L90	CM5	90						

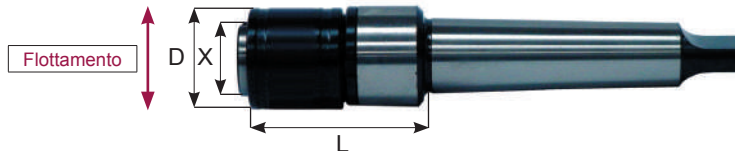
Mandrini rigidi cono morse
 Quick change tapping chucks - Rigid



TIPO - B

CODICE	CAP	CM	X	D	L	EUR
CM1B-TLR0-L39	M1 ÷ M10	CM1	13	23	39	
CM2B-TLR0-L40		CM2			40	
CM1B-TLR1-L43	M3 ÷ M12	CM1	19	32	43	
CM2B-TLR1-L44		CM2			44	
CM3B-TLR1-L44		CM3			44	
CM2B-TLR2-L61	M8 ÷ M20	CM2	31	50	61	
CM3B-TLR2-L61		CM3			61	
CM4B-TLR2-L62		CM4			62	
CM3B-TLR3-L90		CM3			90	
CM4B-TLR3-L91	M14 ÷ M33	CM4	48	72	91	
CM4B-TLR4-L114		CM4			114	
CM5B-TLR4-L114	M22 ÷ M48	CM5	60	95	114	

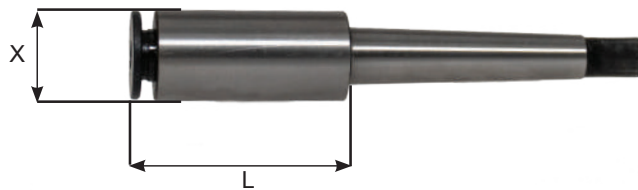
Mandrini rigidi cono morse con flottamento radiale
 Quick change tapping chucks / Radial floating - Rigid



TIPO - B

CODICE	CAP	CM	X	D	L	FLOT	EUR
CM1B-TLRP0-L59	M1 ÷ M10	CM1	13	23	59	0.25	
CM2B-TLRP0-L60		CM2			60		
CM1B-TLRP1-L64	M3 ÷ M12	CM1	19	32	64	0.5	
CM2B-TLRP1-L65		CM2			65		
CM3B-TLRP1-L65		CM3			65		
CM2B-TLRP2-L91	M8 ÷ M20	CM2	31	50	91	1	
CM3B-TLRP2-L91		CM3			91		
CM4B-TLRP2-L92		CM4			92		
CM3B-TLRP3-L131		CM3			131		
CM4B-TLRP3-L132	M14 ÷ M33	CM4	48	72	132	1.5	
CM4B-TLRP4-L161		CM4			161		
CM5B-TLRP4-L162	M22 ÷ M48	CM5	60	95	162	2	
CM2B-TLRP7-L84	M22 ÷ M48	CM2	26	40	84	0.75	
CM3B-TLRP7-L84		CM3			84		

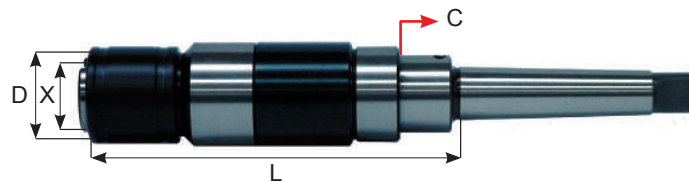
Mandrini rigidi cono morse
 Tapping chucks with direct clamping


TIPO - B

 Specificare Ø e ∇ del maschio

CODICE	CAP	Ø - ∇	D	X	L	EUR
CM0-TL0-L37	M1 ÷ M10	2.5 - 7.2	15	14	37	
CM1-TL1-L46	M3 ÷ M12	4.5 - 11.3	17	19	46	
CM2-TL1-L50	M3 ÷ M12	4.5 - 11.3	17	19	50	
CM2-TL2-L72	M8 ÷ M20	7.0 - 18	30	31	72	
CM3-TL3-L72	M14 ÷ M33	7.0 - 18	30	31	72	

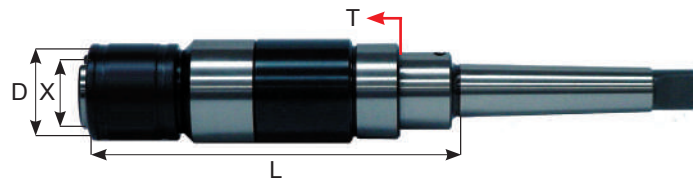
Mandrini rigidi cono morse con compensazione assiale in compressione
 Quick change tapping chucks with length compensation Axial and Compression


TIPO - B

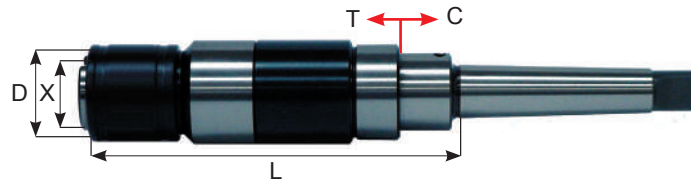
CODICE	CAP	CM	X	D	L	C	EUR
CM1B-TLC0-20	M1 ÷ M10	CM1	13	23	101	20	
CM1B-TLC0-30		CM1			121	30	
CM2B-TLC0-20		CM2			102	20	
CM2B-TLC0-30		CM2			122	30	
CM1B-TLC1-30	M3 ÷ M12	CM1	19	35	133	30	
CM1B-TLC1-40		CM1			153	40	
CM2B-TLC1-30		CM2			134	30	
CM2B-TLC1-40		CM2			154	40	
CM3B-TLC1-30	M8 ÷ M20	CM3	31	50	134	30	
CM3B-TLC1-40		CM3			154	40	
CM2B-TLC2-30		CM2			151	30	
CM2B-TLC2-40		CM2			171	40	
CM3B-TLC2-30	M14 ÷ M33	CM3	48	72	151	30	
CM3B-TLC2-40		CM3			171	40	
CM4B-TLC2-30		CM4			166	30	
CM4B-TLC2-40		CM4			186	40	
CM3B-TLC3-30	M22 ÷ M48	CM3	60	95	197	30	
CM3B-TLC3-40		CM3			217	40	
CM4B-TLC3-30		CM4			197	30	
CM4B-TLC3-40		CM4			217	40	
CM4B-TLC4-60		CM4			289	60	
CM5B-TLC4-60		CM5			290	60	

Mandrini rigidi cono morse con compensazione assiale in trazione

Quick change tapping chucks with length compensation Axial and Tension

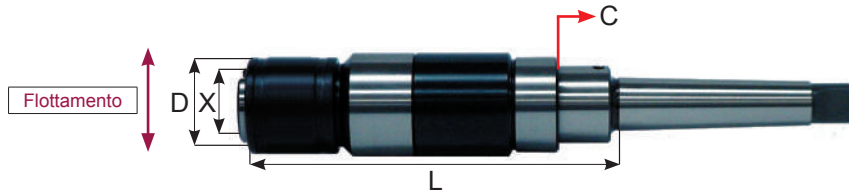

TIPO - B

CODICE	CAP	CM	X	D	L	T	EUR			
CM1B-TLT0-20	M1 ÷ M10	CM1	13	23	81	20				
CM1B-TLT0-30					91	30				
CM2B-TLT0-20		CM2			82	20				
CM2B-TLT0-30					92	30				
CM1B-TLT1-30	M3 ÷ M12	CM1	19	35	103	30				
CM1B-TLT1-40					113	40				
CM2B-TLT1-30		CM2			104	30				
CM2B-TLT1-40					114	40				
CM3B-TLT1-30		CM3			104	30				
CM3B-TLT1-40					114	40				
CM2B-TLT2-30	M8 ÷ M20	CM2	31	50	128	30				
CM2B-TLT2-40					138	40				
CM3B-TLT2-30		CM3			128	30				
CM3B-TLT2-40					138	40				
CM4B-TLT2-30		CM4			129	30				
CM4B-TLT2-40					139	40				
CM3B-TLT3-30		M14 ÷ M33			CM3	48	72	174	30	
CM3B-TLT3-40								184	40	
CM4B-TLT3-30	CM4		175	30						
CM4B-TLT3-40			185	40						
CM4B-TLT4-60	M22 ÷ M48	CM4	60	95	229	60				
CM5B-TLT4-60		CM5			230	60				

Mandrini rigidi con morse con compensazione assiale in compressione e trazione
 Quick change tapping chucks with length compensation on Tension / Compression

TIPO - B

CODICE	CAP	CM	X	D	L	T	C	EUR
CM1B-TLTC0-20/10	M1 ÷ M10	CM1	13	23	111	10	20	
CM1B-TLTC0-15/15		CM1			106	15	15	
CM2B-TLTC0-20/10		CM2			112	10	20	
CM2B-TLTC0-15/15		CM2			107	15	15	
CM1B-TLTC1-30/10	M3 ÷ M12	CM1	19	35	143	10	30	
CM1B-TLTC1-20/20		CM1			133	20	20	
CM2B-TLTC1-30/10		CM2			144	30	30	
CM2B-TLTC1-20/20		CM2			134	20	20	
CM3B-TLTC1-30/10	M8 ÷ M20	CM3	31	50	144	10	30	
CM3B-TLTC1-20/20		CM3			134	20	20	
CM2B-TLTC2-30/10		CM2			168	10	30	
CM2B-TLTC2-20/20		CM2			158	20	20	
CM3B-TLTC2-30/10	M14 ÷ M33	CM3	48	72	168	10	30	
CM3B-TLTC2-20/20		CM3			158	20	20	
CM4B-TLTC2-30/10		CM4			169	10	30	
CM4B-TLTC2-20/20		CM4			159	20	20	
CM3B-TLTC3-30/10	M25 ÷ M48	CM3	60	95	214	10	30	
CM3B-TLTC3-20/20		CM3			204	20	20	
CM4B-TLTC3-30/10		CM4			215	10	30	
CM4B-TLTC3-20/20		CM4			205	20	20	
CM4B-TLTC4-40/20		CM4			269	20	40	
CM4B-TLTC4-30/30		CM4			259	30	30	
CM5B-TLTC4-40/20		CM5			270	20	40	
CM5B-TLTC4-30/30		CM5			260	30	30	

Mandrini rigidi con morse con compensazione assiale in compressione e flottamento radiale
Quick change tapping chucks with length compensation in Compression and Floating Radial



TIPO - B

CODICE	CAP	CM	X	D	FLOT	L	C	EUR
CM1B-TLCP0-20	M1 ÷ M10	CM1	13	23	0.25	122	20	
CM1B-TLCP0-30		CM1				142	30	
CM2B-TLCP0-20		CM2				122	20	
CM2B-TLCP0-30		CM2				142	30	
CM1B-TLCP1-30	M3 ÷ M12	CM1	19	35	0.5	148	30	
CM1B-TLCP1-40		CM1				168	40	
CM2B-TLCP1-30		CM2				148	30	
CM2B-TLCP1-40		CM2				168	40	
CM3B-TLCP1-30	M8 ÷ M20	CM3	31	50	1	148	30	
CM3B-TLCP1-40		CM3				168	40	
CM2B-TLCP2-30		CM2				181	30	
CM2B-TLCP2-40		CM2				201	40	
CM3B-TLCP2-30	M14 ÷ M33	CM3	48	72	1.5	181	30	
CM3B-TLCP2-40		CM3				201	40	
CM4B-TLCP2-30		CM4				181	30	
CM4B-TLCP2-40		CM4				201	40	
CM3B-TLCP3-30	M22 ÷ M48	CM3	60	95	2	238	30	
CM3B-TLCP3-40		CM3				258	40	
CM4B-TLCP3-30		CM4				238	30	
CM4B-TLCP3-40		CM4				258	40	
CM4B-TLCP4-60		CM4				258	60	
CM5B-TLCP4-60		CM5				278	60	

Mandrini rigidi con morse con compensazione assiale in trazione e flottamento radiale
Quick change tapping chucks with length compensation in traccion and Floating Radial



TIPO - B

CODICE	CAP	CM	X	D	FLOT	L	T	EUR
CM1B-TLTP0-20	M1 ÷ M10	CM1	13	23	0.25	102	20	
CM1B-TLTP0-30		CM1				112	30	
CM2B-TLTP0-20		CM2				102	20	
CM2B-TLTP0-30		CM2				112	30	
CM1B-TLTP1-30	M3 ÷ M12	CM1	19	35	0.5	118	30	
CM1B-TLTP1-40		CM1				128	40	
CM2B-TLTP1-30		CM2				118	30	
CM2B-TLTP1-40		CM2				128	40	
CM3B-TLTP1-30	M8 ÷ M20	CM3	31	50	1	118	30	
CM3B-TLTP1-40		CM3				128	40	
CM2B-TLTP2-30		CM2				151	30	
CM2B-TLTP2-40		CM2				161	40	
CM3B-TLTP2-30	M14 ÷ M33	CM3	48	72	1.5	151	30	
CM3B-TLTP2-40		CM3				161	40	
CM4B-TLTP2-30		CM4				151	30	
CM4B-TLTP2-40		CM4				161	40	
CM3B-TLTP3-30	M22 ÷ M48	CM3	60	95	2	208	30	
CM3B-TLTP3-40		CM3				218	40	
CM4B-TLTP3-30		CM4				208	30	
CM4B-TLTP3-40		CM4				218	40	
CM4B-TLTP4-60		CM4				229	60	
CM5B-TLTP4-60		CM5				230	60	

**Mandrini rigidi con morse con compensazione assiale
 in compressione e trazione e flottamento radiale**

 Quick change tapping chucks with length compensation
 in Traccion / Compression and Floating Radial

TIPO - B

CODICE	CAP	CM	X	D	L	FLOT	C	T	EUR
CM1B-TLTCP0-20/10	M1 ÷ M10	CM1	13	23	111	0.25	20	10	
CM1B-TLTCP0-15/15		CM1			106		15	15	
CM2B-TLTCP0-20/10		CM2			112		20	10	
CM2B-TLTCP0-15/15		CM2			107		15	15	
CM1B-TLTCP1-30/10	M3 ÷ M12	CM1	19	35	143	0.5	30	10	
CM1B-TLTCP1-20/20		CM1			133		20	20	
CM2B-TLTCP1-30/10		CM2			144		30	30	
CM2B-TLTCP1-20/20		CM2			134		20	20	
CM3B-TLTCP1-30/10	M8 ÷ M20	CM3	31	50	144	1	30	10	
CM3B-TLTCP1-20/20		CM3			134		20	20	
CM2B-TLTCP2-30/10		CM2			168		30	10	
CM2B-TLTCP2-20/20		CM2			158		20	20	
CM3B-TLTCP2-30/10	M14 ÷ M33	CM3	48	72	168	1.5	30	10	
CM3B-TLTCP2-20/20		CM3			158		20	20	
CM4B-TLTCP3-30/10		CM4			169		30	10	
CM4B-TLTCP2-20/20		CM4			159		20	20	
CM3B-TLTCP3-30/10	M25 ÷ M48	CM3	60	95	214	2	30	10	
CM3B-TLTCP3-20/20		CM3			204		20	20	
CM4B-TLTCP3-30/10		CM4			215		30	10	
CM4B-TLTCP3-20/20		CM4			205		20	20	
CM4B-TLTCP4-40/20		CM4			269		40	20	
CM4B-TLTCP4-30/30		CM4			259		30	30	
CM5B-TLTCP4-40/20		CM5			270		40	20	
CM5B-TLTCP4-30/30		CM5			260		30	30	

Mandrini rigidi (DIN/238)

Quick change tapping chucks (DIN/238)



CODICE	CAP	B	X	D	L	EUR
B10-TLR0-L51	M1 ÷ M10	B10	13	23	51	
B12-TLR0-L55		B12			55	
B12-TLR1-L59	M3 ÷ M12	B12	19	32	59	
B16-TLR1-L65		B16			65	
B18-TLR1-L73		B18			73	
B16-TLR2-L84	M8 ÷ M20	B16	31	50	84	
B18-TLR2-L92		B18			92	
B22-TLR2-L101		B22			101	
B22-TLR3-L126	M14 ÷ M33	B22	48	72	126	
B24-TLR3-L136		B24			136	

Mandrini rigidi tipo jacobs

Quick change tapping chucks



CODICE	CAP	J	X	D	L	EUR
J1-TLR0-L51	M1 ÷ M10	J1	13	23	51	
J1-TLR1-L59					59	
J2-TLR1-L65	M3 ÷ M12	J1	19	32	65	
J6-TLR1-L65					65	

Mandrini rigidi con flottamento radiale (DIN/238)

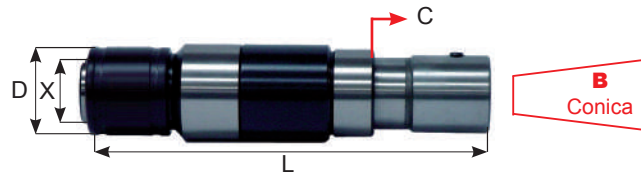
Quick change tapping chucks / Radial floating (DIN/238)



CODICE	CAP	B	X	D	L	FLOT	EUR
B10-TLRP0-L72	M1 ÷ M10	B10	13	23	72	0.25	
B12-TLRP0-L76		B12			76		
B12-TLRP1-L79	M3 ÷ M12	B12	19	32	79	0.5	
B16-TLRP1-L85		B16			85		
B18-TLRP1-L95		B18			95		
B16-TLRP2-L112	M8 ÷ M20	B16	31	50	112	1	
B18-TLRP2-L119		B18			119		
B22-TLRP2-L129		B22			129		
B22-TLRP3-L165	M14 ÷ M33	B22	48	72	165	1.5	
B24-TLRP3-L175		B24			175		

Mandrini rigidi con compensazione assiale in compressione (DIN/238)

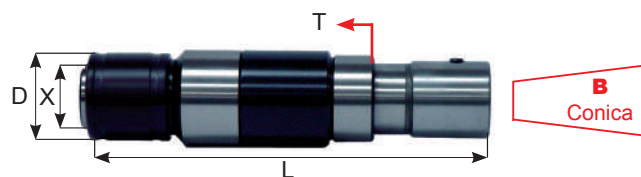
Quick change tapping chucks with length compesation Axial in Compression (DIN/238)



CODICE	CAP	B	X	D	L	C	EUR
B10-TLC0-20	M1 ÷ M10	B10	13	23	117	20	
B10-TLC0-30		B10			137	30	
B12-TLC0-20	M1 ÷ M10	B12	13	23	121	20	
B12-TLC0-30		B12			141	30	
B12-TLC1-30	M3 ÷ M12	B12	19	35	127	30	
B12-TLC1-40		B12			147	40	
B16-TLC1-30		B16			127	30	
B16-TLC1-40		B16			147	40	
B18-TLC1-30	M3 ÷ M12	B18	19	35	142	30	
B18-TLC1-40		B18			162	40	
B16-TLC2-30		B16			151	30	
B16-TLC2-40		B16			171	40	
B18-TLC2-30	M8 ÷ M20	B18	31	50	151	30	
B18-TLC2-40		B18			171	40	
B22-TLC2-30		B22			166	30	
B22-TLC2-40		B22			186	40	
B22-TLC3-30	M14 ÷ M33	B22	48	72	197	30	
B22-TLC3-40		B22			217	40	
B24-TLC3-30		B24			197	30	
B24-TLC3-40		B24			217	40	

Mandrini rigidi con compensazione assiale in trazione (DIN/238)

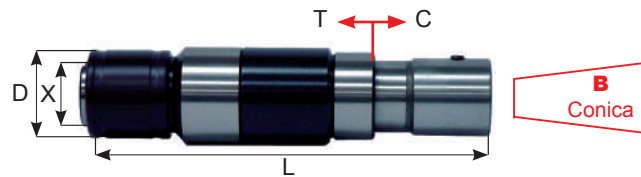
Quick change tapping chucks with length Axial in traccion (DIN/238)



CODICE	CAP	B	X	D	L	T	EUR
B10-TLT0-30	M1 ÷ M10	B10	13	23	107	30	
B12-TLT0-20		B12			111	30	
B12-TLT0-30	M3 ÷ M12	B16	19	35	135	30	
B16-TLT1-30		B16			135	40	
B18-TLT1-30		B18			148	30	
B18-TLT1-40		B18			148	40	
B18-TLT2-30	M8 ÷ M20	B18	31	50	168	30	
B18-TLT2-40		B18			168	40	
B22-TLT2-30		B22			177	30	
B22-TLT2-40		B22			177	40	
B22-TLT3-30	M14 ÷ M33	B22	48	72	221	30	
B22-TLT3-40		B22			221	40	
B24-TLT3-40		B24			231	30	
B24-TLT3-40		B24			231	40	

Mandrini rigidi con compensazione assiale in compressione e trazione (DIN/238)

Quick change tapping chucks with length compensation Axial in traction (DIN/238)



CODICE	CAP	B	X	D	L	C	T	EUR
B10-TLTC0-20/10	M1 ÷ M10	B10	13	23	127	20	10	
B10-TLTC0-15/15		B10			122	15	15	
B12-TLTC0-20/10		B12			131	20	10	
B12-TLTC0-15/15		B12			126	15	15	
B16-TLTC1-30/10	M3 ÷ M12	B16	19	35	165	30	10	
B16-TLTC1-20/20		B16			155	20	20	
B18-TLTC1-30/10		B18			178	30	10	
B18-TLTC1-20/20		B18			168	20	20	
B18-TLTC2-30/10	M8 ÷ M20	B18	31	50	198	30	10	
B18-TLTC2-20/20		B18			188	20	20	
B22-TLTC2-30/10		B22			207	30	10	
B22-TLTC2-20/20		B22			197	20	20	
B22-TLTC3-30/10	M14 ÷ M33	B22	48	72	251	30	10	
B22-TLTC3-20/20		B22			241	20	20	
B24-TLTC3-30/10		B24			161	30	10	
B24-TLTC3-20/20		B24			251	20	20	

Mandrini rigidi con compensazione assiale in compressione e flottamento radiale (DIN/238)

Quick change tapping chucks with length compensation in Compression and Floating Radial (DIN/238)



CODICE	CAP	B	X	D	L	FLOT	C	EUR
B10-TLCP0-20	M1 ÷ M10	B10	13	23	139	0.25	20	
B10-TLCP0-30		B10			159		30	
B12-TLCP0-20		B12			143		20	
B12-TLCP0-30		B12			163		30	
B12-TLCP1-30	M3 ÷ M12	B12	19	35	142	0.5	30	
B12-TLCP1-40		B12			162		40	
B16-TLCP1-30		B16			142		30	
B16-TLCP1-40		B16			162		40	
B18-TLCP1-30	M8 ÷ M20	B16	31	50	157	1	30	
B18-TLCP1-40		B18			162		40	
B16-TLCP2-30		B16			176		30	
B16-TLCP2-40		B16			196		40	
B18-TLCP2-30	M14 ÷ M33	B18	48	72	176	1.5	30	
B18-TLCP2-40		B18			196		40	
B22-TLCP2-30		B22			192		30	
B22-TLCP2-40		B22			212		40	
B22-TLCP3-30	M14 ÷ M33	B22	48	72	232	1.5	30	
B22-TLCP3-40		B22			252		40	
B24-TLCP3-30		B24			232		30	
B24-TLCP3-40		B24			252		40	

**Mandrini rigidi con compensazione assiale
 in trazione e flottamento radiale (DIN/238)**

 Quick change tapping chucks with length compensation
 in Traction and Floating Radial (DIN/238)


CODICE	CAP	B	X	D	L	FLOT	T	EUR
B10-TLTP0-30	M1 ÷ M10	B10	13	23	129	0.25	30	
B12-TLTP0-20		B12			133		20	
B12-TLTP0-30							30	
B16-TLTP1-30	M3 ÷ M12	B16	19	35	150	0.50	30	
B16-TLTP1-40					163		40	
B18-TLTP1-30		B18					30	
B18-TLTP1-40							40	
B18-TLTP2-30	M8 ÷ M20	B18	31	50	194	1.00	30	
B18-TLTP2-40					203		40	
B22-TLTP2-30		B22					30	
B22-TLTP2-40							40	
B22-TLTP3-30	M14 ÷ M33	B22	48	72	256	1.50	30	
B22-TLTP3-40					266		40	
B24-TLTP3-30		B24					30	
B24-TLTP3-40							40	

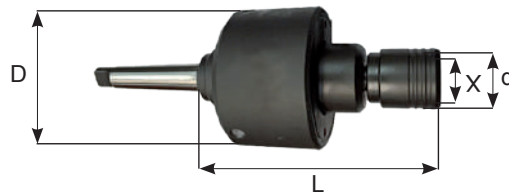
**Mandrini rigidi con compensazione assiale
 in compressione e trazione e flottamento radiale (DIN/238)**

 Quick change tapping chucks with length compensation in
 Compression / Traction and Floating Radial (DIN/238)


CODICE	CAP	B	X	D	L	FLOT	T	C	EUR
B10-TLTCP0-20/10	M1 ÷ M10	B10	13	23	149	0.25	10	20	
B10-TLTCP0-15/15		B10			144		15	15	
B12-TLTCP0-20/10		B12			153		10	20	
B12-TLTCP0-15/15		B12			148		15	15	
B16-TLTCP1-30/10	M3 ÷ M12	B16	19	35	180	0.5	10	30	
B16-TLTCP1-20/20					170		20	20	
B18-TLTCP1-30/10		B18			193		10	30	
B18-TLTCP1-20/20		B18			183		20	20	
B18-TLTCP2-30/10	M8 ÷ M20	B18	31	50	224	1	10	30	
B18-TLTCP2-20/20					214		20	20	
B22-TLTCP2-30/10		B22			233		10	30	
B22-TLTCP2-20/20		B22			223		20	20	
B22-TLTCP3-30/10	M14 ÷ M33	B22	48	72	286	1.5	10	30	
B22-TLTCP3-20/20					276		20	20	
B24-TLTCP3-30/10		B24			296		10	30	
B24-TLTCP3-20/20		B24			286		20	20	

Maschiatrice ad inversione

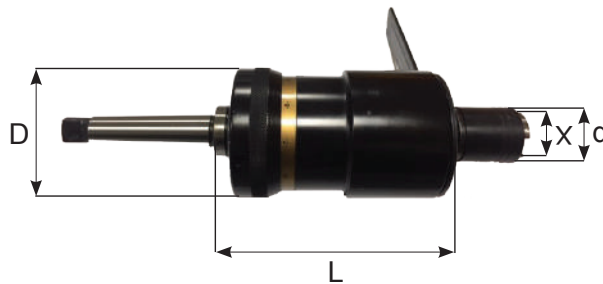
Tapping attachments with automatic reversal



CODICE	TIPO	CM	D	L	X	d	EUR
CM2B-SRT1	1	CM2B	80	140	19	32	
CM3B-SRT2	2	CM3B	86	170	31	50	

Maschiatrice ad inversione con frizione

Tapping attachments with automatic reversal



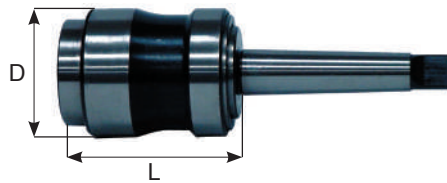
CODICE	TIPO	CM	D	L	X	d	EUR
CM2B-HRT1	1	CM2B	68	162	19	30	
CM3B-HRT1	1	CM3B	68	162	19	30	

Kit maschiatrice ad inversione

Kit Tapping attachments with automatic reversal



CODICE	EUR
KIT - SRT1 Mandrino CM2 DIN/228B M3 - M10	
KIT - SRT2 Mandrino CM3 DIN/228B M10 - M20	

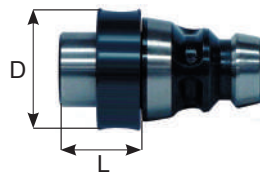
Mandrini a cambio rapido
 Quick - change holder

TIPO - B

CODICE	CR	CM	D	L	EUR
CM2B-QC2	QC2	CM2B	50	75	
CM3B-QC2	QC2	CM3B	50	75	
CM3B-QC3	QC3	CM3B	60	88	
CM4B-QC3	QC3	CM4B	60	88	
CM4A-QC3	QC3	CM4A	60	88	

*

Mandrini a cambio rapido cono morse

Quick - change morse taper adapters

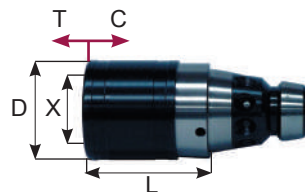

QC

CODICE	CR	CM	D	L	EUR
QC2-CM1B	QC2	CM1B	42	18.0	
QC2-CM2B	QC2	CM2B	42	30.5	
QC3-CM1B	QC3	CM1B	50	20.5	
QC3-CM2B	QC3	CM2B	50	20.5	
QC3-CM3B	QC3	CM3B	50	38.5	

*

Mandrini a compensazione assiale in compressione e trazione

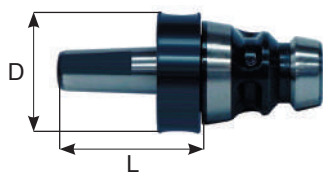
Chick change tapping adapters Tension / Compression


QC

CODICE	CAP	CR	X	D	L	T	C	EUR
QC2-TC1	M3 ÷ M12	QC2	19	36	42	7.5	7.5	
QC2-TC2	M8 ÷ M20	QC2	31	53	72	12.5	12.5	
QC3-TC1	M3 ÷ M12	QC3	19	36	72	7.5	7.5	
QC3-TC2	M8 ÷ M20	QC3	31	53	66	12.5	12.5	
QC3-TC3	M14 ÷ M33	QC3	48	78	126	20	20	

Mandrini a cambio rapido tipo QC/B

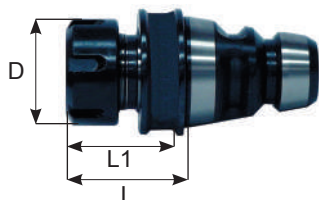
Chick change drill chuck adapters QC/B


QC

CODICE	CR	RIDUTTORE	D	L	EUR
QC2-B16	QC2	B16	42	23	
QC3-B16	QC3	B16	50	25.5	

Mandrino a cambio rapido portapinze

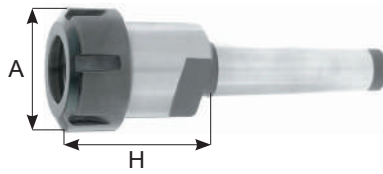
Quick change collet adapters


QC

CODICE	CAP	CR	Pinza	D	L	L1	EUR
QC2-ER16	0.5 ÷ 10	QC2	ER16	32	42	30 ÷ 50	
QC3-ER32	1.0 ÷ 16	QC3	ER32	50	51	40 ÷ 60	

Portapinze cono morse STANDARD

Collet chucks cono morse STANDARD


TIPO - A

CODICE	FAM	CAP	H	A	EUR
CM1.H40.ERC16	1	1 ÷ 10	40	32	
CM2.H42.ERC16			42		
CM2.H50.ERC20		1 ÷ 14	50	35	
CM2.H54.ERC25			54		
CM3.H53.ERC25		1 ÷ 20	53	42	
CM3.H70.ERC32			70		
CM4.H60.ERC32		2 ÷ 22	60	50	
CM5.H50.ERC32			50		
CM3.H80.ERC40		3 ÷ 30	80	63	
CM4.H81.ERC40			81		
CM5.H82.ERC40		6 ÷ 34	82	78	
CM4.H96.ERC50			96		
CM5.H91.ERC50		91			

Kit mandrino portapinze

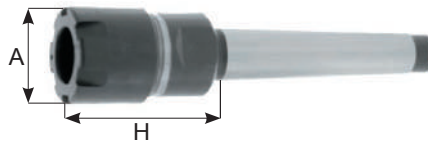
Kit ER tooholder



CODICE	PINZE	CHIAVE	PORTAPINZE	EUR
BXCM2.H42.25.15	Ø2 ÷ Ø16 x 1mm (15 unità)	CH25S	CM2.H42.ERC25	
BXCM3.H53.25.15			CM3.H53.ERC25	
BXCM4.H81.40.23	Ø4 ÷ Ø26 x 1mm (23 unità)	CH40S	CM4.H81.ERC40	
BXCM3.H70.32.18			CM3.H70.ERC32	
BXCM4.H60.32.18	Ø3 ÷ Ø20 x 1mm (18 unità)	CH32S	CM4.H60.ERC32	

Portapinze cono morse MINI

Collet chucks cono morse MINI

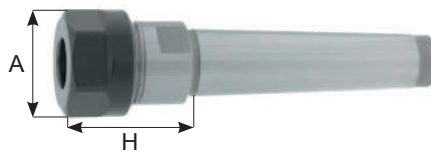

TIPO - A

CODICE	FAM	CAP	H	A	EUR
CM1.H25.ERC11M	1	1 ÷ 7	25	16	
CM1.H40.ERC16M			40		
CM2.H42.ERC16M		1 ÷ 10	42	22	
CM3.H43.ERC16M			43		
CM2.H50.ERC20M		1 ÷ 14	50	28	
CM3.H47.ERC20M			47		
CM2.H54.ERC25M		1 ÷ 20	54	35	
CM3.H58.ERC25M			58		

Compatibili con ghiera mini esagonali.
 Compatible with mini hexagonal nuts.

Portapinze cono morse ESAGONALE

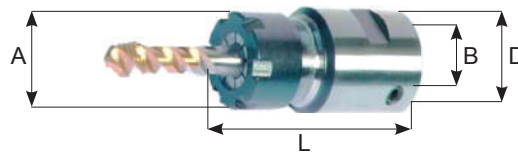
EXAGONAL collet chuck cono morse


TIPO - A

CODICE	FAM	CAP	H	A	EUR
CM1.H25.ERC11	1	1 ÷ 7	25	16	
CM1.H40.ERC16		1 ÷ 10	40	22	
CM2.H42.ERC16			42		
CM2.H50.ERC20		1 ÷ 14	50	28	

Portapinze DIN238 MINI

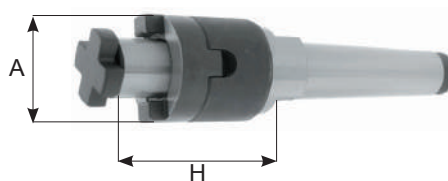
Collet chucks DIN238 with MINI nut


B

CODICE	FAM	A	L	D	B	EUR
B12.H63.ERC11M	2	16	63	25	12.06	
B12.H55.ERC16M		22	55	25	12.06	
B16.H85.ERC16M		22	85	25	15.73	
B12.H67.ERC20M		28	67	25	12.06	
B16.H80.ERC20M		28	80	25	15.73	
B18.H74.ERC20M		28	74	28	17.78	

Portafrese combinato cono morse

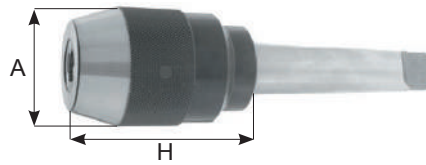
Combi shell end mill holders


TIPO - A

CODICE	FAM	H	A	CM	EUR
CM3.H48.D16C	1	48	16	3	
CM3.H48.D22C		48	22		
CM3.H48.D27C		48	27		
CM3.H63.D32C		63	32	4	
CM4.H55.D16C		55	16		
CM4.H55.D22C		55	22		
CM4.H55.D27C		55	27	5	
CM4.H55.D32C		55	32		
CM5.H75.D22C		75	22		
CM5.H75.D27C		75	27		
CM5.H75.D32C		75	32		
CM5.H75.D40C		75	40		

Mandrini autoserranti integrali - Rotazione destra

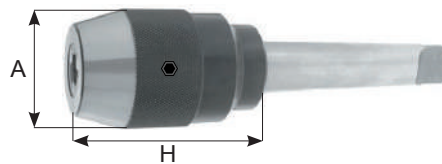
Integrated drill chucks - Right Spin


TIPO - B

CODICE	FAM	CAP	H	A	EUR
CM2.H81.DCK13	1	1 ÷ 13	81	50	
CM3.H81.DCK13					
CM4.H81.DCK13		3 ÷ 16	85	57	
CM3.H85.DCK16					
CM4.H85.DCK16					

Mandrini autoserranti integrali - Rotazione destra e sinistra

Integrated drill chucks - Right and Left Spin


TIPO - B

CODICE	FAM	CAP	H	A	EUR	
CM2.H87.DCU13	2	1 ÷ 13	87	50		
CM3.H87.DCU13			87			
CM4.H88.DCU13			88			
CM3.H92.DCU16		3 ÷ 16	92	94	56	
CM4.H94.DCU16						

Tenone per cono morse

Removable tangs for morse tapper


TAG

CODICE	FAM	MORSE	METRICA (M)	EUR
TAG1-M6	1	1	M.6	
TAG2-M10		2	M.10	
TAG3-M12		3	M.12	
TAG4-M16		4	M.16	
TAG5-M20		5	M.20	

Mandrini autoserranti manuali

Manual keyless drill chucks


DC

CODICE	FAM	CAP	B	EUR
DC13.B16H	1	1 ÷ 13	16	
DC16.B16H		3 ÷ 16	16	
DC16.B18H		3 ÷ 16	18	

Mandrini autoserranti ad alta precisione

High precision keyless drill chucks


DCK

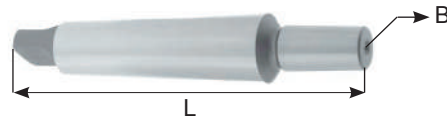
CODICE	FAM	CAP	B	EUR
DCK8.B12S	1	1 ÷ 8	12	
DCK10.B12S		1 ÷ 10		
DCK13.B12S		1 ÷ 13		
DCK13.B16S		1 ÷ 13	16	
DCK16.B16S		3 ÷ 16	18	
DCK16.B18S		3 ÷ 16		

Mandrini autoserranti con chiave esagonale

Exagonal key drill chucks


CP

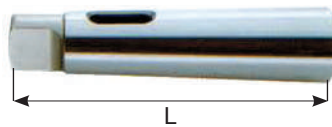
CODICE	FAM	CAP	B	EUR
CP13-B16	1	1 ÷ 13	16	
CP16-B16		3 ÷ 16	16	

Attacchi cono morse (DIN/238)
 Morse taper adapters to (DIN/238)

CM-B

CODICE	FAM	CM	B	L	EUR
CM1.B10	1	1	10	83	
CM1.B12			12	89	
CM1.B16			16	99	
CM1.B18			18	99	
CM2.B10		2	10	105	
CM2.B12			12	106	
CM2.B16			16	112	
CM2.B18			18	119	
CM2.B22		3	22	130	
CM3.B12			12	125	
CM3.B16			16	134	
CM3.B18			18	140	
CM3.B22		4	22	147	
CM4.B12			12	152	
CM4.B16			16	156	
CM4.B18			18	164	
CM4.B22		5	22	176	
CM4.B24			24	186	
CM5.B16			16	190	
CM5.B18			18	204	
CM5.B22		5	22	213	
CM5.B24			24	221	

Riduttori cono Morse - Morse

Morse taper adapters


CM-CM

CODICE	FAM	CM Esterno	CM Interno	L	EUR
CM1B-0	1	1	0	80	
CM2B-1		2	1	92	
CM3B-1		3	1	99	
CM3B-2			2	112	
CM4B-1		4	1	124	
CM4B-2			2	124	
CM4B-3			3	140	
CM5B-1		5	1	156	
CM5B-2			2	156	
CM5B-3			3	156	
CM5B-4			4	171	
CM6B-2		6	2	218	
CM6B-3			3	218	
CM6B-4			4	218	
CM6B-5			5	218	

Pinze per PUNTE

Mt collets for twist drills


DIN 6329

CODICE	FAM	DESCRIZIONE	CAP	D	L	EUR
CM0.PUNTA	2	CM0 - PUNTA	1.5 ÷ 5.5	9.0	59.5	
CM1.PUNTA		CM1 - PUNTA	1.5 ÷ 10.0	12.2	65.5	
CM2.PUNTA		CM2 - PUNTA	3.0 ÷ 15.0	18.0	80.0	
CM3.PUNTA		CM3 - PUNTA	8.0 ÷ 20.0	24.0	99.0	
CM4.PUNTA		CM4 - PUNTA	12.0 ÷ 25.0	31.5	124.0	
CM5.PUNTA		CM5 - PUNTA	20.0 ÷ 36.0	44.5	156.2	

Pinze per portamaschi

Mt collets for milling cutters


DIN 6328

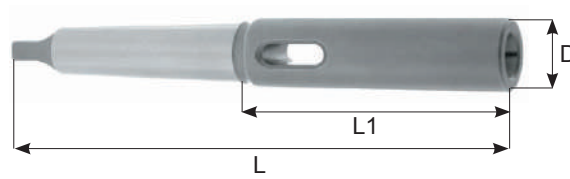
CODICE	FAM	DESCRIZIONE	CAP	D	L	EUR
CM0.MASCHIO	2	CM0 - MASCHIO	2.5 ÷ 4.5	9.0	59.5	
CM1.MASCHIO		CM1 - MASCHIO	2.5 ÷ 10.0	12.2	65.5	
CM2.MASCHIO		CM2 - MASCHIO	4.5 ÷ 14.0	18.0	80.0	
CM3.MASCHIO		CM3 - MASCHIO	8.0 ÷ 18.0	24.0	99.0	
CM4.MASCHIO		CM4 - MASCHIO	12.0 ÷ 25.0	31.5	124.0	
CM5.MASCHIO		CM5 - MASCHIO	18.0 ÷ 36.0	44.5	156.2	

Estrattori a cono

Cone ejectors


DIN 317

CODICE	FAM	DESCRIZIONE	L	S	EUR
CM0	1	BC.CM0	90	2	
CM1		BC.CM1	140	5	
CM2		BC.CM2	140	5	
CM3		BC.CM3	190	7	
CM4		BC.CM4	225	10	
CM5		BC.CM5	265	15	

Prolunga per utensili a cono morse
 Extended morse taper adapters

BRL

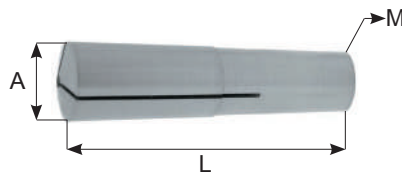
CODICE	FAM	CM Esterno	CM Interno	L	Lt	D	EUR
BRL1-1	1	1	1	83	145	20	
BRL1-2			2	98	160	30	
BRL2-1		2	1	85	160	20	
BRL2-2			2	100	175	30	
BRL2-3			3	121	196	36	
BRL3-1		3	1	81	175	20	
BRL3-2			2	100	194	30	
BRL3-3			3	121	215	36	
BRL4-2		4	2	97.5	215	30	
BRL4-3			3	122.5	240	36	
BRL4-4			4	147.5	265	48	
BRL4-5		5	5	182.5	300	63	
BRL5-3			3	118.5	268	36	
BRL5-4			4	150.5	300	48	
BRL5-5			5	185.5	335	63	

Tamponi pulitori
 Spindle taper wipers

TCL

CODICE	FAM	MODELLO	EUR
TCL1.MT	1	CM1	
TCL2.MT		CM2	
TCL3.MT		CM3	
TCL4.MT		CM4	
TCL5.MT		CM5	

Pinze a cono morse
Morse taper collets



CP-CM2

CODICE	CAP	A	L	M	FAM	EUR
CP-CM2.D3	3 ÷ 32	18	69	10	1	
CP-CM2.D4						
CP-CM2.D5						
CP-CM2.D6						
CP-CM2.D7						
CP-CM2.D8						
CP-CM2.D9						
CP-CM2.D10						
CP-CM2.D11						
CP-CM2.D12						
CP-CM2.D13						

CP-CM3

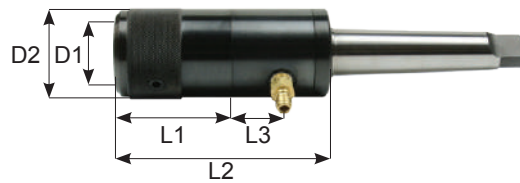
CODICE	CAP	A	L	M	FAM	EUR
CP-CM3.D3	3 ÷ 18	24.1	86	12	1	
CP-CM3.D4						
CP-CM3.D5						
CP-CM3.D6						
CP-CM3.D7						
CP-CM3.D8						
CP-CM3.D9						
CP-CM3.D10						
CP-CM3.D11						
CP-CM3.D12						
CP-CM3.D13						
CP-CM3.D14						
CP-CM3.D15						
CP-CM3.D16						
CP-CM3.D17						
CP-CM3.D18						

CP-CM4

CODICE	CAP	A	L	M	FAM	EUR
CP-CM4.D4	4 ÷ 25	31.6	109	12	1	
CP-CM4.D5						
CP-CM4.D6						
CP-CM4.D7						
CP-CM4.D8						
CP-CM4.D9						
CP-CM4.D10						
CP-CM4.D11						
CP-CM4.D12						
CP-CM4.D13						
CP-CM4.D14						
CP-CM4.D15						
CP-CM4.D16						
CP-CM4.D17						
CP-CM4.D18						
CP-CM4.D19						
CP-CM4.D20						
CP-CM4.D21						
CP-CM4.D22						
CP-CM4.D23						
CP-CM4.D24						
CP-CM4.D25						

Dispositivo rotante con morse di lubrificazione centrale

Rotating oil-feed holders


TIPO - B

CODICE	FAM	CM	D1	L1	L2	D2	L3	EUR
EVT516/1	7	1	16	40	89	32	24	
EVT525/2		2	25	50	113	46	31	
EVT525/3		3	25	50	113	46	31	
EVT535/4		4	35	60	123	58	28	

Bussole di riduzione

Reduction sleeves



CODICE	FAM	D1	D2	L	EUR
EVT25/16	15	16	25	50	
EVT25/20		20	25	50	
EVT35/25		25	35	60	

Condizioni di lavoro

Working conditions

Ø	PRESSIONE	RPM
16	Min 4 BAR	6740
	Max 17 BAR	2000
25	Min 5 BAR	4600
	Max 17 BAR	1350
35	Min 5 BAR	2700
	Max 17 BAR	850



**MANDRINI
ATTACCO TRAPEZOIDALE
DIN/6327**

TOOLHOLDERS
DIN/6327 TRAPEZOIDALE

4



MANDRINI ATTACCO TRAPEZOIDALE DIN/6327

TOOLHOLDERS DIN/6327 TRAPEZOIDALE



MANDRINI A CAMBIO RAPIDO
QUICK CHANGE TAPPING CHUCK

4A



MANDRINI RIGIDI
RIGID TAPPING CHUCK

4B



MANDRINI RIGIDI CON FLOTTAMENTO
FLOATING RIGID TAPPING CHUCK



MANDRINI TRANSFER
TAPPING CHUCK FOR TRANSFER

4C



MANDRINI RIGIDI GW / GSW / GSWL
RIGID TAPPING CHUCK GW / GSW / GSWL

4D



MANDRINI RIGIDI GSVL / DZ
RIGID TAPPING CHUCK GSVL / DZ

4E



BUSSOLE REGISTRABILI
ADJUSTABLE ADAPTORS



MANDRINI CAMBIO RAPIDO A MANO
QUICK CHANGE DRILLING CHUCKS ONE HAND

4F



MANDRINI PORTAPINZE
COLLET CHUCKS



GHIERA DI REGISTRAZIONE
NUT

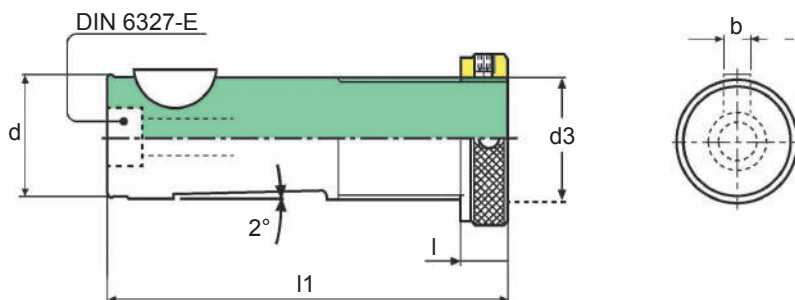
4G



GHIERE A CAMBIO RAPIDO
QUICK CHANGE ADJUSTABLE NUT AND REDUCED

Tabella tecnica

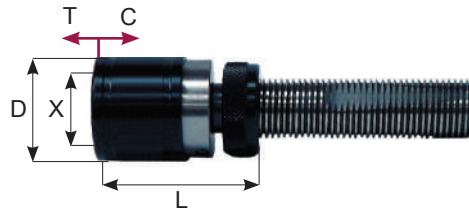
Technical table



d3	d	l1	b	l
TR8 x 1	8	50	3	10
TR10 x 1.5	10	62	3	12
TR12 x 1.5	12	62	3	12
TR16 x 1.5	16	85	5	12
TR20 x 2	20	88	5	12
TR28 x 2	28	95	6	12
TR36 x 2	36	118	8	18
TR48 x 2	48	144	10	18

Maschiatori con compressione e trazione

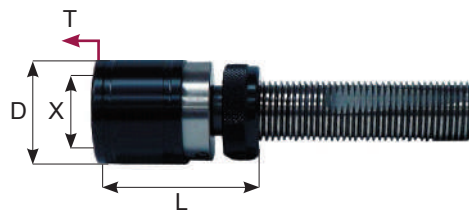
Quick change tapping chucks with Tension / Compression


TR

CODICE	CAP	X	D	L	T	C	EUR
TR16-THTC0-L49	M1 ÷ M10	13	26	49	6.5	7.5	
TR20-THTC0-L49				49			
TR16-THTC1-L51	M3 ÷ M12	19	36	51	7.5	7.5	
TR20-THTC1-L51				51			
TR28-THTC1-L51				51			
TR36-THTC1-L53				53			
TR20-THTC2-L75	M8 ÷ M20	31	53	75	12.5	12.5	
TR28-THTC2-L75				75			
TR36-THTC2-L77				77			
TR28-THTC3-L108	M14 ÷ M33	48	78	108	20	20	
TR36-THTC3-L110				110			
TR48-THTC3-L114				114			
TR36-THTC4-L121	M22 ÷ M48	60	96	121	22.5	22.5	
TR48-THTC4-L125				125			

Maschiatori con solo trazione

Quick change tapping chucks with Tension

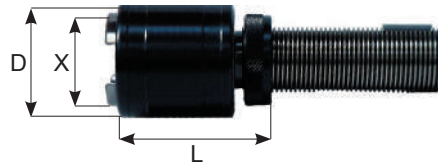

TR

CODICE	CAP	X	D	L	T	C	EUR
TR16-THT0-L49	M1 ÷ M10	13	26	49	7.5	0	
TR20-THT0-L49				49			
TR16-THT1-L51	M3 ÷ M12	19	36	51	7.5	0	
TR20-THT1-L51				51			
TR28-THT1-L51				51			
TR36-THT1-L53				53			
TR20-THT2-L75	M8 ÷ M20	31	53	75	12.5	0	
TR28-THT2-L75				75			
TR36-THT2-L77				77			
TR28-THT3-L108	M14 ÷ M33	48	78	108	20	0	
TR36-THT3-L110				110			
TR48-THT3-L114				114			
TR36-THT4-L121	M22 ÷ M48	60	96	121	22.5	0	
TR48-THT4-L125				125			

DISPONIBILI SU RICHIESTA ANCHE PASSAGGIO DEL REFRIGERANTE
 ALSO AVAILABLE WITH COOLANT THROUGH

Maschiatori rigidi

Quick change tapping chucks Rigid

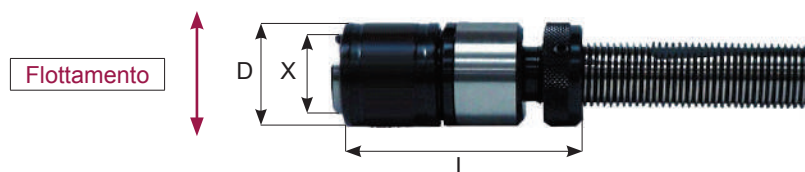

TR

CODICE	CAP	X	D	L	EUR
TR16-TLR0-L45	M1 ÷ M10	13	23	45	
TR20-TLR0-L45				45	
TR16-TLR1-L49	M3 ÷ M12	19	32	49	
TR20-TLR1-L49				49	
TR28-TLR1-L49				49	
TR20-TLR2-L66	M8 ÷ M20	31	50	66	
TR28-TLR2-L66				66	
TR36-TLR2-L68				68	
TR28-TLR3-L95				95	
TR36-TLR3-L97	M14 ÷ M33	48	72	97	
TR36-TLR4-L120				120	
TR48-TLR4-L124	M22 ÷ M48	60	95	124	

DISPONIBILI SU RICHIESTA ANCHE PASSAGGIO DEL REFRIGERANTE
 ALSO AVAILABLE WITH COOLANT THROUGH

Maschiatori rigidi con flottamento radiale

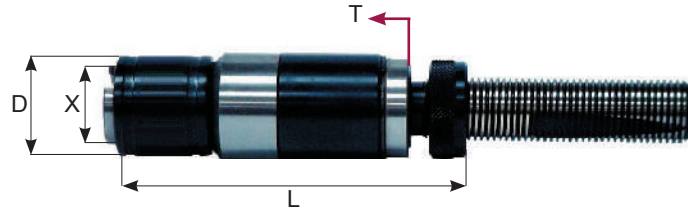
Quick change tapping chucks with Radial Floating


TR

CODICE	CAP	X	D	FLOT	L	EUR
TR16-TLRP0-L65	M1 ÷ M10	13	23	0.25	65	
TR20-TLRP0-L65					65	
TR16-TLRP1-L70	M3 ÷ M12	19	32	0.5	70	
TR20-TLRP1-L70					70	
TR28-TLRP1-L70					70	
TR20-TLRP2-L96	M8 ÷ M20	31	50	1	96	
TR28-TLRP2-L96					96	
TR36-TLRP2-L98					98	
TR28-TLRP3-L136					136	
TR36-TLRP3-L138	M14 ÷ M33	48	72	1.5	138	
TR36-TLRP4-L167					167	
TR48-TLRP4-L171	M22 ÷ M48	60	95	2	171	
TR20-TLRP7-L89					89	
TR28-TLRP7-L89	M6 ÷ M18	26	40	0.75	89	

Maschiatori rigidi con compensazione assiale in trazione

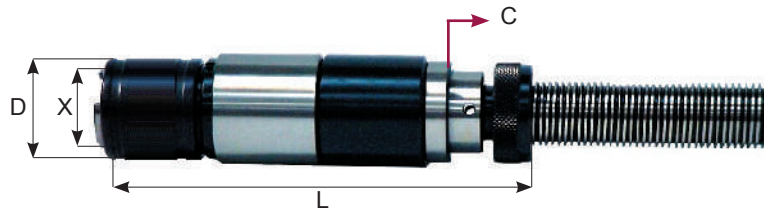
Quick change tapping chucks with Axial compesation in Tension


TR

CODICE	CAP	X	D	L	T	EUR
TR16-TLT0-20	M1 ÷ M10	13	23	86	20	
TR16-TLT0-30				96	30	
TR20-TLT0-20	M1 ÷ M10	13	23	86	20	
TR20-TLT0-30				96	30	
TR16-TLT1-30	M3 ÷ M12	19	35	108	30	
TR16-TLT1-40				118	40	
TR20-TLT1-30				108	30	
TR20-TLT1-40				118	40	
TR28-TLT1-30	M3 ÷ M12	19	35	108	30	
TR28-TLT1-40				118	40	
TR20-TLT2-30				132	30	
TR20-TLT2-40				142	40	
TR28-TLT2-30	M8 ÷ M20	31	50	132	30	
TR28-TLT2-40				142	40	
TR36-TLT2-30				132	30	
TR36-TLT2-40				142	40	
TR28-TLT3-30	M14 ÷ M33	48	72	180	30	
TR28-TLT3-40				190	40	
TR36-TLT3-30				180	30	
TR36-TLT3-40				190	40	
TR36-TLT4-60	M22 ÷ M48	60	95	235	60	
TR48-TLT4-60				239	60	

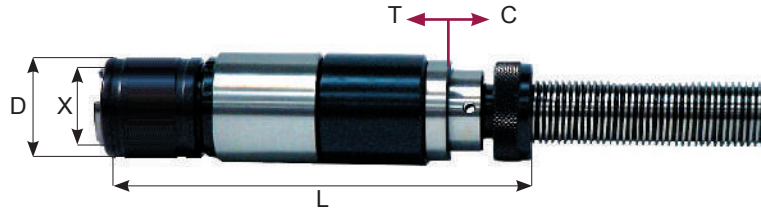
Maschiatori rigidi con compensazione assiale in compressione

Quick change tapping chucks with Axial compesation in Tension


TR

CODICE	CAP	X	D	L	C	EUR
TR16-TLC0-20	M1 ÷ M10	13	23	107	20	
TR16-TLC0-30				127	30	
TR20-TLC0-20				107	20	
TR20-TLC0-30				127	30	
TR16-TLC1-30	M3 ÷ M12	19	35	139	30	
TR16-TLC1-40				159	40	
TR20-TLC1-30				139	30	
TR20-TLC1-40				159	40	
TR28-TLC1-30				139	30	
TR28-TLC1-40				159	40	
TR20-TLC2-30	M8 ÷ M20	31	50	163	30	
TR20-TLC2-40				183	40	
TR28-TLC2-30				163	30	
TR28-TLC2-40				183	40	
TR36-TLC2-30	M14 ÷ M33	48	72	165	30	
TR36-TLC2-40				185	40	
TR28-TLC3-30				209	30	
TR28-TLC3-40				229	40	
TR36-TLC3-30				211	30	
TR36-TLC3-40				231	40	
TR36-TLC4-60	M22 ÷ M48	60	95	295	60	
TR48-TLC4-60				299	60	

**Maschiatori rigidi con compensazione assiale
 in compressione / trazione**

 Quick change tapping chucks with Axial
 compesation in Tension / Compression

TR

CODICE	CAP	X	D	L	T	C	EUR
TR16-TLTC0-20/10	M1 ÷ M10	13	23	117	10	20	
TR16-TLTC0-15/15				112	15	15	
TR20-TLTC0-20/10				117	10	20	
TR20-TLTC0-15/15				112	15	15	
TR16-TLTC1-30/10	M3 ÷ M12	19	35	149	10	30	
TR16-TLTC1-20/20				139	20	20	
TR20-TLTC1-30/10				149	10	30	
TR20-TLTC1-20/20				139	20	20	
TR28-TLTC1-30/10	M8 ÷ M20	31	50	149	10	30	
TR28-TLTC1-20/20				139	20	20	
TR20-TLTC2-30/10				173	10	30	
TR20-TLTC2-20/20				163	20	20	
TR28-TLTC2-30/10	M14 ÷ M33	48	72	173	10	30	
TR28-TLTC2-20/20				163	20	20	
TR36-TLTC2-30/10				175	10	30	
TR36-TLTC2-20/20				165	20	20	
TR28-TLTC3-30/10	M22 ÷ M48	60	95	219	10	30	
TR28-TLTC3-20/20				209	20	20	
TR36-TLTC3-30/10				221	10	30	
TR36-TLTC3-20/20				211	20	20	
TR36-TLTC4-40/20				275	20	40	
TR36-TLTC4-30/30				265	30	30	
TR48-TLTC4-40/20				279	20	40	
TR48-TLTC4-30/30				269	30	30	

Maschiatori rigidi con compensazione assiale in compressione e flottamento radiale

Quick change tapping chucks with Axial compensation in Tension and Floating Radial


TR

CODICE	CAP	X	D	L	FLOT	C	EUR
TR16-TLCP0-20	M1 ÷ M10	13	23	129	0.25	20	
TR16-TLCP0-30				149		30	
TR20-TLCP0-20				129		20	
TR20-TLCP0-30				149		30	
TR16-TLCP1-30	M3 ÷ M12	19	35	154	0.5	30	
TR16-TLCP1-40				174		40	
TR20-TLCP1-30				154		30	
TR20-TLCP1-40				174		40	
TR28-TLCP1-30				154		30	
TR28-TLCP1-40				174		40	
TR20-TLCP2-30	M8 ÷ M20	31	50	188	1	30	
TR20-TLCP2-40				208		40	
TR28-TLCP2-30				188		30	
TR28-TLCP2-40				208		40	
TR36-TLCP2-30				190		30	
TR36-TLCP2-40				210		40	
TR28-TLCP3-30	M14 ÷ M33	48	72	244	1.5	30	
TR28-TLCP3-40				264		40	
TR36-TLCP3-30				246		30	
TR36-TLCP3-40				266		40	
TR36-TLCP4-60	M22 ÷ M48	60	95	342	2	60	
TR48-TLCP4-60				346		60	

Mandrino rigido con compensazione assiale e trazione e flottamento radiale

Quick change tapping chucks with Axial compensation in Tension and Floating Radial


TR

CODICE	CAP	X	D	L	FLOT	T	EUR
TR16-TLTP0-20	M1 ÷ M10	13	23	109	0.25	20	
TR16-TLTP0-30				119		30	
TR20-TLTP0-20				109		20	
TR20-TLTP0-30				119		30	
TR16-TLTP1-30	M3 ÷ M12	19	35	124	0.5	30	
TR16-TLTP1-40				134		40	
TR20-TLTP1-30				124		30	
TR20-TLTP1-40				134		40	
TR28-TLTP1-30				124		30	
TR28-TLTP1-40				134		40	
TR20-TLTP2-30	M8 ÷ M20	31	50	158	1	30	
TR20-TLTP2-40				168		40	
TR28-TLTP2-30				158		30	
TR28-TLTP2-40				168		40	
TR36-TLTP2-30				160		30	
TR36-TLTP2-40				170		40	
TR28-TLTP3-30	M14 ÷ M33	48	72	214	1.5	30	
TR28-TLTP3-40				224		40	
TR36-TLTP3-30				216		30	
TR36-TLTP3-40				226		40	
TR36-TLTP4-60	M22 ÷ M48	60	95	282	2	60	
TR48-TLTP4-60				286		60	

Mandrino rigido con compensazione assiale in compressione e trazione e flottamento radiale

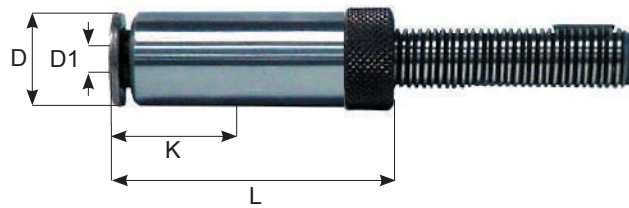
Quick change tapping chucks with Axial
 compesation in Tension / Compression and Floating Radial


TR

CODICE	CAP	X	D	L	FLOT	T	C	EUR
TR16-TLTCP0-20/10	M1 ÷ M10	13	23	139	0.25	10	20	
TR16-TLTCP0-15/15				134		15	15	
TR20-TLTCP0-20/10				139		10	20	
TR20-TLTCP0-15/15				134		15	15	
TR16-TLTCP1-30/10	M3 ÷ M12	19	35	164	0.5	10	30	
TR16-TLTCP1-20/20				154		20	20	
TR20-TLTCP1-30/10				164		10	30	
TR20-TLTCP1-20/20				154		20	20	
TR28-TLTCP1-30/10	M8 ÷ M20	31	50	164	1	10	30	
TR28-TLTCP1-20/20				154		20	20	
TR20-TLTCP2-30/10				198		10	30	
TR20-TLTCP2-20/20				188		20	20	
TR28-TLTCP2-30/10	M14 ÷ M33	48	72	198	1.5	10	30	
TR28-TLTCP2-20/20				188		20	20	
TR36-TLTCP2-30/10				200		10	30	
TR36-TLTCP2-20/20				190		20	20	
TR28-TLTCP3-30/10	M22 ÷ M48	60	95	254	2	10	30	
TR28-TLTCP3-20/20				244		20	20	
TR36-TLTCP3-30/10				256		10	30	
TR36-TLTCP3-20/20				246		20	20	
TR36-TLTCP4-40/20				322		20	40	
TR36-TLTCP4-30/30				312		30	30	
TR48-TLTCP4-40/20				326		20	40	
TR48-TLTCP4-30/30				316		30	30	

Mandrini rigidi (DIN/6327)

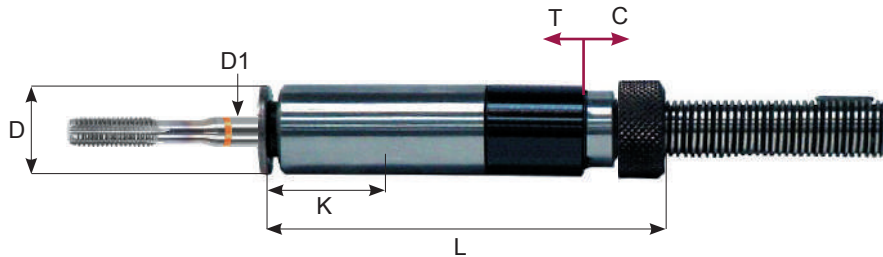
Quick change tapping chuck with threaded shank (DIN/6327)


TR

SPECIFICARE Ø E ∅ DEL MASCHIO

CODICE	CAP	D1	K	D	L	EUR
TR10-TL0-L44	M1 ÷ M10	2.5 - 7.2	15	14	44	
TR12-TL0-L44		2.5 - 7.2	15	14	44	
TR12-TL1-L52	M3 ÷ M12	4.5 - 11.3	17	19	52	
TR16-TL1-L52		4.5 - 11.3	17	19	52	
TR20-TL2-L77	M8 ÷ M20	7 - 18	30	31	77	
TR28-TL2-L77		7 - 18	30	31	77	

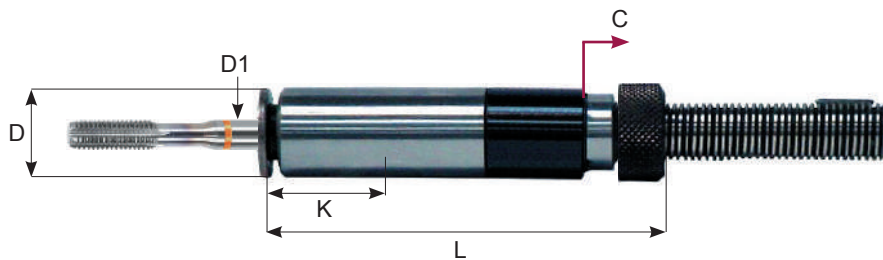
Mandrini rigidi con compensazione assiale in compressione e trazione

 Quick change tapping chucks with Axial
 compensation in Tension / Compression

TR

CODICE	ATTACCO	D1	K	D	L	T	C	EUR					
TR12-TL4.5x3.4-15/5	TR12x1.5	4.5x3.4	17	19	102	5	15						
TR12-TL5x4-15/5		5x4											
TR12-TL6x4.9-15/5		6x4.9											
TR12-TL6.3x5-15/5		6.3x5											
TR12-TL7x5.5-15/5		7x5.5											
TR12-TL8x6.3-15/5		8x6.3											
TR12-TL9x7.1-15/5		9x7.1											
TR12-TL10x8-15/5		10x8											
TR12-TL4.5x3.4-10/10		4.5x3.4						17	19	97	10	10	
TR12-TL5x4-10/10		5x4											
TR12-TL6x4.9-10/10		6x4.9											
TR12-TL6.3x5-10/10		6.3x5											
TR12-TL7x5.5-10/10		7x5.5											
TR12-TL8x6.3-10/10		8x6.3											
TR12-TL9x7.1-10/10		9x7.1											
TR12-TL10x8-10/10		10x8											
TR12-TL4.5x3.4-5/15		4.5x3.4	17	19	92	15	5						
TR12-TL5x4-5/15		5x4											
TR12-TL6x4.9-5/15		6x4.9											
TR12-TL6.3x5-5/15		6.3x5											
TR12-TL7x5.5-5/15		7x5.5											
TR12-TL8x6.3-5/15		8x6.3											
TR12-TL9x7.1-5/15		9x7.1											
TR12-TL10x8-5/15		10x8											

Mandrini rigidi con compensazione assiale in compressione

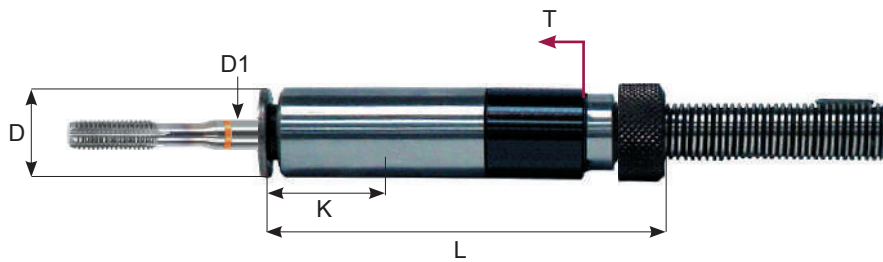
Quick change tapping chucks with Axial
compensation in Tension / Compression



TR

CODICE	ATTACCO	D1	K	D	L	T	C	EUR
TR12-TL4.5x3.4-20/0	TR12x1.5	4.5x3.4	17	19	107	0	20	
TR12-TL5x4-20/0		5x4						
TR12-TL6x4.9-20/0		6x4.9						
TR12-TL6.3x5-20/0		6.3x5						
TR12-TL7x5.5-20/0		7x5.5						
TR12-TL8x6.3-20/0		8x6.3						
TR12-TL9x7.1-20/0		9x7.1						
TR12-TL10x8-20/0		10x8						

Mandrini rigidi con compensazione assiale in trazione
 Quick change tapping chucks with Axial compesation in Tension


TR

CODICE	ATTACCO	D1	K	D	L	T	C	EUR
TR12-TL4.5x3.4-0/20	TR12x1.5	4.5x3.4	17	19	87	20	0	
TR12-TL5x4-0/20		5x4						
TR12-TL6x4.9-0/20		6x4.9						
TR12-TL6.3x5-0/20		6.3x5						
TR12-TL7x5.5-0/20		7x5.5						
TR12-TL8x6.3-0/20		8x6.3						
TR12-TL9x7.1-0/20		9x7.1						
TR12-TL10x8-0/20		10x8						

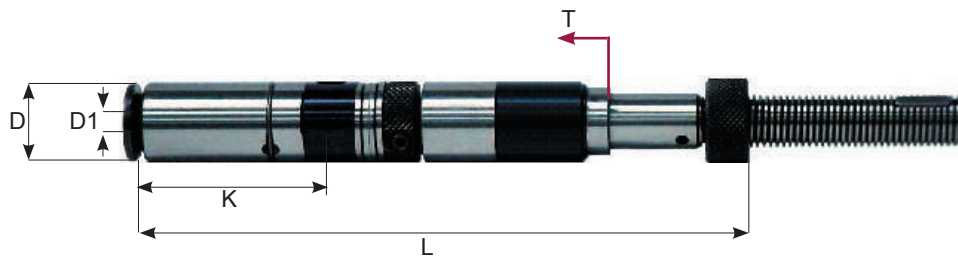
Mandrini rigidi con compensazione assiale in compressione con frizione
 Quick change tapping chucks with Axial compesation in Tension in Compression and safety clutch


TR

CODICE	ATTACCO	D1	K	D	L	T	C	EUR
TR12S-TL4.5x3.4-20/0	TR12x1.5	4.5x3.4	17	19	143	0	20	
TR12S-TL5x4-20/0		5x4						
TR12S-TL6x4.9-20/0		6x4.9						
TR12S-TL6.3x5-20/0		6.3x5						
TR12S-TL7x5.5-20/0		7x5.5						
TR12S-TL8x6.3-20/0		8x6.3						
TR12S-TL9x7.1-20/0		9x7.1						
TR12S-TL10x8-20/0		10x8						

Mandrini rigidi con compensazione assiale in trazione con frizione

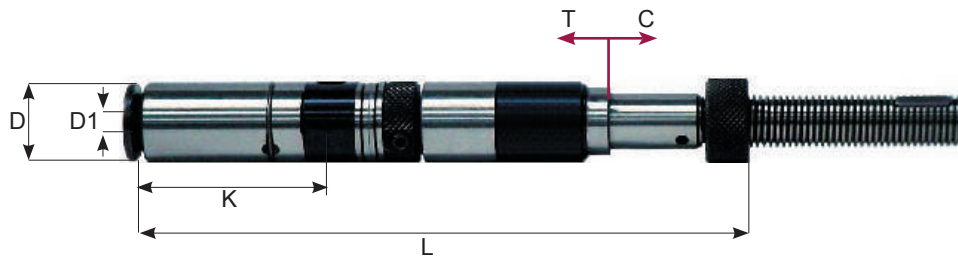
Quick change tapping chucks with Axial compesation in Tension and safety clutch


TR

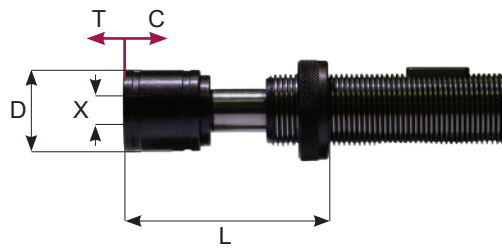
CODICE	ATTACCO	D1	K	D	L	T	C	EUR
TR12S-TL4.5X3.4-0/20	TR12x1.5	4.5x3.4	17	19	123	20	0	
TR12S-TL5X4-0/20		5x4						
TR12S-TL6X4.9-0/20		6x4.9						
TR12S-TL6.3X5-0/20		6.3x5						
TR12S-TL7X5.5-0/20		7x5.5						
TR12S-TL8X6.3-0/20		8x6.3						
TR12S-TL9X7.1-0/20		9x7.1						
TR12S-TL10X8-0/20		10x8						

Mandrini rigidi con compensazione assiale in compressione e trazione con frizione

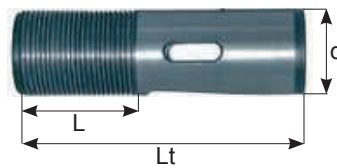
Quick change tapping chucks with Axial
 compesation in Tension / Compression and safety clutch


TR

CODICE	ATTACCO	D1	K	D	L	T	C	EUR					
TR12S-TL4.5X3.4-15/5	TR12x1.5	4.5x3.4	17	19	138	5	15						
TR12S-TL5X4-15/5		5x4											
TR12S-TL6X4.9-15/5		6x4.9											
TR12S-TL6.3X5-15/5		6.3x5											
TR12S-TL7X5.5-15/5		7x5.5											
TR12S-TL8X6.3-15/5		8x6.3											
TR12S-TL9X7.1-15/5		9x7.1											
TR12S-TL10X8-15/5		10x8											
TR12S-TL4.5X3.4-10/10		4.5x3.4						17	19	133	10	10	
TR12S-TL5X4-10/10		5x4											
TR12S-TL6X4.9-10/10		6x4.9											
TR12S-TL6.3X5-10/10		6.3x5											
TR12S-TL7X5.5-10/10		7x5.5											
TR12S-TL8X6.3-10/10		8x6.3											
TR12S-TL9X7.1-10/10		9x7.1											
TR12S-TL10X8-10/10		10x8											
TR12S-TL4.5X3.4-5/15		4.5x3.4	17	19	128	15	5						
TR12S-TL5X4-5/15		5x4											
TR12S-TL6X4.9-5/15		6x4.9											
TR12S-TL6.3X5-5/15		6.3x5											
TR12S-TL7X5.5-5/15	7x5.5												
TR12S-TL8X6.3-5/15	8x6.3												
TR12S-TL9X7.1-5/15	9x7.1												
TR12S-TL10X8-5/15	10x8												

Mandrini a cambio rapido
 Quick change tapping chuck

TR

CODICE	ATTACCO	X	D	L	T	C	EUR
TR28-THLC1-L65	M3 ÷ M12	19	32	65	20	20	
TR36-THLC1-L67				67	20	20	
TR48-THLC1-L71				71	20	20	
TR36-THLC2-L83	M8 ÷ M24	31	50	83	25	20	
TR48-THLC2-L87				87	25	20	

Bussole (DIN/6327)
 Adjustable Adaptors (DIN/6327)

AS

CODICE	CM	d	L	Lt	EUR
AS/16850	0	16	40	85	
AS/16851	1	16	40	85	
AS/20881	1	20	40	88	
AS/28951	1	28	42	95	
AS/28952	2	28	42	95	
AS/361182	2	36	50	118	
AS/361183	3	36	50	118	
AS/481442	3	48	65	144	
AS/481443	4	48	65	144	

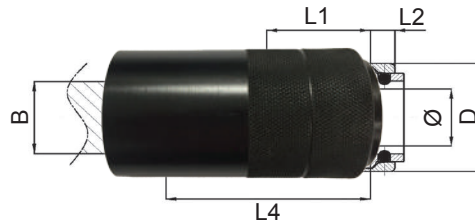
Bussole lunghe (DIN/6327)
 Adjustable Adaptors (DIN/6327)

AS

CODICE	CM	d	L	Lt	EUR
AS/161100	0	16	25	110	
AS/161101	1	16	25	110	
AS/161350	0	16	50	135	
AS/161351	1	16	50	135	
AS/161600	0	16	75	160	
AS/161601	1	16	75	160	
AS/161850	0	16	100	185	
AS/161851	1	16	100	185	
AS/201131	1	20	25	113	
AS/201381	1	20	50	138	
AS/201631	1	20	75	163	
AS/201881	1	20	100	188	
AS/281201	1	28	25	120	
AS/281202	2	28	25	120	
AS/281451	1	28	50	145	
AS/281452	2	28	50	145	
AS/281701	1	28	75	170	
AS/281702	2	28	75	170	
AS/281951	1	28	100	195	
AS/281952	2	28	100	195	
AS/361482	2	36	30	148	
AS/361483	3	36	30	148	
AS/361782	2	36	60	178	
AS/361783	3	36	60	178	
AS/362082	2	36	90	208	
AS/362083	3	36	90	208	
AS/362382	2	36	120	238	
AS/362383	3	36	120	238	
AS/481843	3	48	40	184	
AS/481844	4	48	40	184	
AS/482243	3	48	80	224	
AS/482244	4	48	80	224	
AS/482643	3	48	120	264	
AS/482644	4	48	120	264	
AS/483043	3	48	160	304	
AS/483044	4	48	160	304	

Mandrini a cambio rapido a una mano (DIN/55058)

Quick change drilling chucks one hand (DIN/55058)

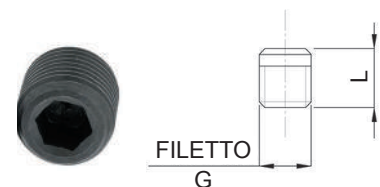

RC

CODICE	Ø	B	D	L1	L2	L4	M	EUR
RC-TL12	12	20	24	22	9	42	M5	
RC-TL16	16	25	30	34	9.5	65	M6	
RC-TL20	20	32	38	34	11	72	M6	
RC-TL25	25	37	45	38	12	79	M8	
RC-TL28	28	40	48	38	12	81	M8	
RC-TL32	32	45	55	45	14	83	M8	
RC-TL36	36	50	60	45	16	99	M8	
RC-TL48	48	67	80	57	20	100	M10	

Grani per mandrini a cambio rapido

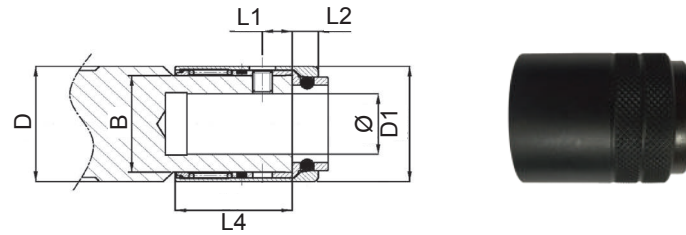
Screw Quick change drilling chucks

CODICE	Ø	G	L	EUR
RC-TL5S	12	M5	4	
RC-TL6S	16 - 20	M6	5.5	
RC-TL8S	25 - 28	M8	6.9	
RC-TL8LS	32 - 36	M8	7.5	
RC-TL10S	48	M10	9.5	



Mandrini a cambio rapido a una mano DIN/55058

Quick change drilling chucks two hands din/55058



RRC

CODICE	Ø	B	D	D1	L1	L2	L4	M	EUR
RRC-TL16	16	22	25	27	8	9.5	30	M6	
RRC-TL20	20	28	32	34	8	11	30	M6	
RRC-TL25	25	34.5	37	41	8	12	32	M8	
RRC-TL28	28	37	40	44	8	12	32	M8	
RRC-TL32	32	41	45	49	9	13.5	39	M8	
RRC-TL36	36	46	50	55	9	16	39	M8	
RRC-TL48	48	61	67	73	11	20	51	M10	

Grani per mandrini a cambio rapido corto

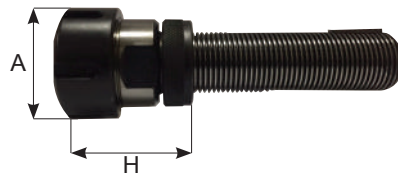
Screw Quick change drilling chucks short

CODICE	Ø	G	L	EUR
RRC-TL5S	16 - 20	M5	4	
RRC-TL6S	25 - 28 - 32 - 36	M6	5.5	
RRC-TL8S	48	M8	7.5	



Portapinzze ER con ghiera STANDARD

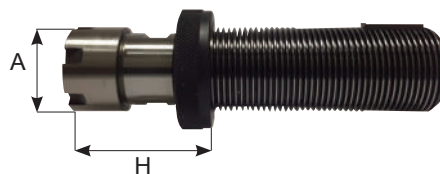
Collet chucks ER STANDARD nut


TR

CODICE	FAM	CAP	H	A	EUR
TR16-TLER11-L42	1	1 ÷ 7	42	19	
TR16-TLER16-L57			57		
TR20-TLER16-L56		1 ÷ 10	56	28	
TR20-TLER20-L59		1 ÷ 14	59	34	
TR20-TLER32-L70		2 ÷ 22	70	50	
TR28-TLER20-L56		1 ÷ 14	56	34	
TR28-TLER25-L57		1 ÷ 20	57	42	
TR28-TLER32-L59		2 ÷ 22	59	50	
TR36-TLER25-L56		1 ÷ 20	56	42	
TR36-TLER32-L56		2 ÷ 22	56	50	
TR36-TLER40-L60		3 ÷ 30	60	63	
TR48-TLER32-L64		2 ÷ 22	64	50	
TR48-TLER40-L68		3 ÷ 30	68	63	

Portapinzze ER con ghiera MINI

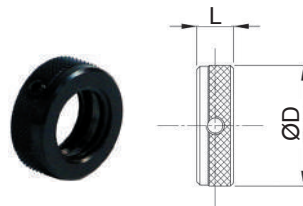
Collet chucks ER MINI nut


TR

CODICE	FAM	CAP	H	A	EUR
TR12-TLER11M-L46	1	1 ÷ 7	46	16	
TR12-TLER16M-L51			51		
TR16-TLER16M-L57		1 ÷ 10	57	22	
TR16-TLER20M-L57		1 ÷ 14	57	28	
TR20-TLER11M-L49		1 ÷ 7	49	16	
TR20-TLER16M-L54		1 ÷ 10	54	22	
TR20-TLER20M-L57		1 ÷ 14	57	28	
TR20-TLER25M-L58		1 ÷ 20	58	35	
TR28-TLER20M-L56		1 ÷ 14	56	28	
TR28-TLER25M-L57		1 ÷ 20	57	35	

Ghiere di registrazione

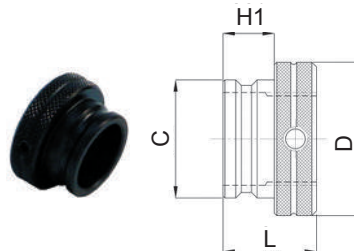
Nut


GH

CODICE	PASSO	D	L	EUR
GH-10	TR 10x1.5	16	12	
GH-12	TR 12x1.5	20	12	
GH-16	TR 16x1.5	24.6	12	
GH-20	TR 20x2	31.6	12	
GH-28	TR 28x2	39.6	12	
GH-36	TR 36x2	49.6	14	
GH-48	TR 48x2	66.6	18	

Ghiere a cambio rapido

Quick change adjustable nut and reduced


CRM

CODICE	CAP	D	C	H1	L	EUR
CRM-12	TR 12x1.5	21.5	16.4	9	18	
CRM-16	TR 16x1.5	26	19.9	9.5	18.5	
CRM-20	TR 20x2	33	25.4	11	20	
CRM-25	TR 25x2	40	31.9	12	22	
CRM-28	TR 28x2	42	33.9	12	22	
CRM-32	TR 32x2	47	37.9	13.5	23.5	
CRM-36	TR 36x2	54	43.4	16	26	
CRM-48	TR 48x2	72	57.9	20	34	



MACCHINE A CALETTARE ACCESSORI

SHRINK FIT MACHINE
ACCESSORIES

5



MACCHINE A CALETTARE ACCESSORI

SHRINK FIT MACHINE ACCESSORIES



MACCHINE A CALETTARE
SHRINK FIT MACHINE

5A



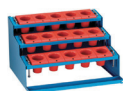
BARRA DI CONTROLLO
TEST ARBOR

5B



SUPPORTI DI MONTAGGIO
TOOL ASSEMBLING DEVICE

5C



PORTA CONI
PLASTIC BUSHES

5D

Calettamento

Shrink fit machine

CODICE	FUNZIONI	CAPACITÀ	DESCRIZIONE	EUR
START.2	6KW	6-20 mm	INDUZIONE TERMICA CAPACITÀ UTENSILE DA Ø 6 a Ø 20 ACCESSORI INCLUSI ALTRE MISURE OPTIONAL	



CODICE	FUNZIONI	CAPACITÀ	DESCRIZIONE	EUR
FI-6	10KW	2-32 mm	INDUZIONE TERMICA 2 SISTEMI DI RAFFREDDAMENTO CAPACITÀ UTENSILE DA Ø 2 a Ø 32 ACCESSORI INCLUSI	

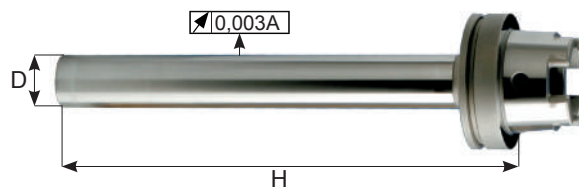


CODICE	FUNZIONI	CAPACITÀ	DESCRIZIONE	EUR
FG500.1150	ACQUA FINE		SISTEMA RAFFREDDAMENTO	



Barre di controllo con certificato HSK

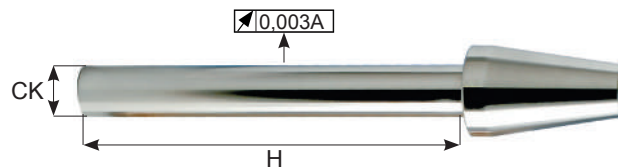
Test arbor with accuracy certificate HSK


HSK63A

CODICE	FAM	D	FORMA	H	EUR
HSK63A.H335.CK40	1	40	HSK63-A	335	
HSK100A.H335.CK50		50	HSK100-A	335	
HSK63F.H346.CK40		40	HSK63-F	346	

Barre di controllo con certificato MAS/403BT

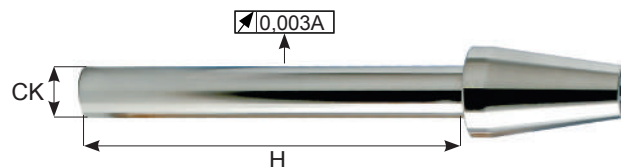
Test arbor with accuracy certificate MAS/403BT


BT30 / 40 / 50

CODICE	FAM	CK	FORMA	H	EUR
BT30.H237.CK32	1	32	AD	237	
BT40.H335.CK40		40	AD	335	
BT50.H340.CK50		50	AD	340	

Barre di controllo con certificato DIN/69871

Test arbor with accuracy certificate DIN/69871


TC30 / 40 / 50

CODICE	FAM	CK	FORMA	H	EUR
TC30.H237.CK32	1	32	AD	237	
TC40.H335.CK40		40		335	
TC50.H340.CK50		50		340	

Supporti di montaggio con rulli 90°

Tool assembly device with rollers 90°

HSK63A



CODICE	FAM	MODELLO	EUR
TBRL32	1	HSK32-CAPTO C3	
TBRL40		HSK40-CAPTO C4	
TBRL46		BT30	
TBRL50		HSK50-TC-BT-ISO-CAT30-CAPTO C5	
TBRL63		HSK63-TC-BT-ISO-CAT40-CAPTO C6	
TBRL80		HSK-80 CAPTO C8	
TBRL97		TC50	
TBRL100		HSK100-BT-ISO50	

Supporti di montaggio con rulli orientabili in verticale e orizzontale

Indexable type the tool-head can be set in vertical and horizontal position



TBRL

CODICE	FAM	MODELLO	EUR
TBRL40R	1	HSK63-TC-BT-ISO-CAT40-CAPTO C6	

Il supporto blocca la flangia del porta utensile senza alcun contatto con il cono.

The toolholder's flange is clamped by the sliding-bearing. No contact with the taper.

Tutti i supporti di montaggio devono essere fissati al banco di lavoro o al carrello portamandrini.

The tool assembly device must be fixed to a bench or to a tool cart.

Supporti di montaggio orientabili con bloccaggio sulla flangia

Indexable assembly devices - flange clamping


TBK

CODICE	FAM	MODELLO	EUR
TBK30	1	TC-BT-CAT-ISO30-HSK50A	
TBK40		HSK63-TC-BT-CAT-ISO40	
TBK50		HSK100-TC-BT-CAT-ISO50	

Supporti di montaggio orientabili con sede conica

Indexable assembly devices


TLD

CODICE	FAM	MODELLO	EUR
TLD30 5K	1	TC-BT-CAT-ISO30	
TLD40 5K		TC-BT-CAT-ISO40	
TLD50 5K		TC-BT-CAT-ISO50	

Porta conì

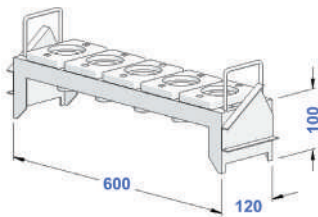
Plastic bushes



CODICE	FAM		EUR
SOPORTE.ISO30	2	0033	
SOPORTE.ISO40			
SOPORTE.ISO45			
SOPORTE.ISO50			
SOPORTE.HSK50-KM50-PSC50		0033	
SOPORTE.HSK63-KM63-PSC63			
SOPORTE.HSK100-KM100-PSC100			
SOPORTE.CM4		0033	
SOPORTE.CM5			
SOPORTE.Ø32-VDI30		0033	
SOPORTE.Ø40-VDI40			
SOPORTE.Ø50-VDI50			

Unità porta conì

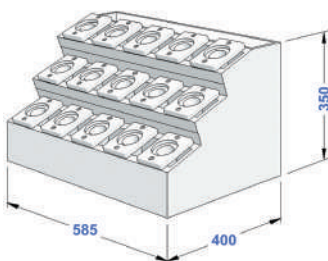
Bench unities



CODICE	FAM	← N°	EUR
UNIDAD.ISO30	2	6	
UNIDAD.ISO40		6	
UNIDAD.ISO45		6	
UNIDAD.ISO50		5	
UNIDAD.HSK50-KM50-PSC50		6	
UNIDAD.HSK63-KM63-PSC63		6	
UNIDAD.HSK100-KM100-PSC100		5	
UNIDAD.CM4		6	
UNIDAD.CM5		6	
UNIDAD.Ø32-VDI30		6	
UNIDAD.Ø40-VDI40		6	
UNIDAD.Ø50-VDI50		5	

Espositore porta conì

Tools stores



CODICE	FAM	← N°	EUR
MAG.ISO30	2	15	
MAG.ISO40		15	
MAG.ISO45		15	
MAG.ISO50		12	
MAG.HSK50-KM50-PSC50		15	
MAG.HSK63-KM63-PSC63		15	
MAG.HSK100-KM100-PSC100		12	
MAG.CM4		15	
MAG.CM5		15	
MAG.Ø32-VDI30		15	
MAG.Ø40-VDI40		15	
MAG.Ø50-VDI50		12	



**MANDRINI
ATTACCO MAS403/BT
E DOPPIO CONTATTO**
















TOOLHOLDERS BT/
MAS403 AND DOUBLE
CONTACT

6



MANDRINI ATTACCO MAS403/BT E DOPPIO CONTATTO

TOOLHOLDERS BT/MAS403 AND DOUBLE CONTACT

	MANDRINI A CAMBIO RAPIDO QUICK CHANGE TAPPING CHUCK		6A
	MANDRINI A CAMBIO RAPIDO PASSAGGIO DEL REFRIGERANTE QUICK CHANGE TAPPING CHUCK COOLANT THRU		
	SYNCHRO PORTAPINZE SYNCHRO COLLET CHUCK		6B
	SYNCHRO CAMBIO RAPIDO SYNCHRO QUICK CHANGE		
	MANDRINI RIGIDI RIGID TAPPING CHUCK		6C
	MANDRINI RIGIDI PASSAGGIO DEL REFRIGERANTE RIGID TAP HOLDER COOLANT THRU		
	MANDRINI IDRAULICI HYDRAULIC CHUCKS		6D
	MANDRINI IDRAULICI DOPPIO CONTATTO HYDRAULIC CHUCKS DUAL DRIVE	DOPPIO CONTATTO	6E
	MANDRINI PORTAPINZE "TG" COLLET CHUCKS "TG"		6F
	MANDRINI PORTAPINZE COLLET CHUCK		6G
	MANDRINI PORTAFRESE WELDON END MILL HOLDERS FOR WELDON		6H
	MANDRINI PORTAFRESE COMBINATO COMBI SHELL END MILL HOLDERS		6I
	MANDRINO PORTAFRESE FISSO SHELL END MILL HOLDERS		6J
	MANDRINI A CALETTAMENTO SHRINK FIT HOLDERS		6K
	MANDRINI PORTAPINZE DOPPIO CONTATTO COLLET CHUCKS DUAL DRIVE	DOPPIO CONTATTO	6L

MANDRINI ATTACCO MAS403/BT E DOPPIO CONTATTO

TOOLHOLDERS BT/MAS403 AND DOUBLE CONTACT
















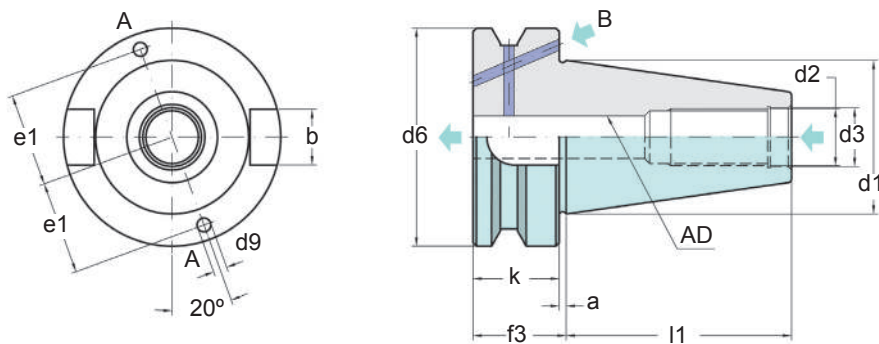
	MANDRINI PORTAFRESE WELDON DOPPIO CONTATTO END MILL HOLDERS FOR WELDON DUAL DRIVE	DOPPIO CONTATTO	6M
	MANDRINI PORTAFRESE FISSO DOPPIO CONTATTO SHELL END MILL HOLDERS DUAL DRIVE	DOPPIO CONTATTO	6N
	MANDRINI A DOPPIO CONTATTO A CALETTAMENTO TERMICO (4,5°) SHRINK FIT TOOL HOLDER 4,5°	DOPPIO CONTATTO	6O
	MANDRINI PORTAPUNTE DRILL CHUCKS WITH HOOK WRENCH		60
	MANDRINI PORTA ALESATORI FLOTTANTI FLOATING REAMER HOLDERS		6P
	MANDRINI PORTA PINZE EOC COLLET CHUCKS EOC		6Q
	MANDRINI FORTE SERRAGGIO POWER MILLING CHUCKS		6R
	MANDRINI RIDUZIONI CONO MORSE MORSE TAPPER ADAPTERS		6S
	MANDRINI RIDUZIONI ISO / HSK / PCS REDUCING ADAPTERS TO ISO / HSK / PCS		6T
	MANDRINI PORTAFRESE CON FILETTO / ANTIVIBRAZIONE TOOLHOLDERS FOR SCREWED MILLING CUTTERS		6U
	MANDRINI PORTAFRESE FISSO ANTI-VIBRAZIONE ANTIVIBRATORY SHELL MILL ADAPTORS		6V
	MANDRINI A DISTRIBUZIONE DEL REFRIGERANTE COOLANT FEEDER CHUCKS		6W
	BARRE DI CONTROLLO / BARRE TENERE TEST ARBOR / BLANK ARBORS		6X
	MANDRINI VARILOCK TOOLHOLDERS VARILOCK		6X
	ADATTATORI VARILOCK VARILOCK ADAPTERS		

Tabella tecnica

Technical table



CONO TAPER	FORMA FORM	d1	d2	d3	d6	l1	a	k	f3	b	d9	e1
BT30	AD	31.75	M12	12.5	46	48.4	2	20	22	16.1	-	-
BT40	AD+B	44.45	M16	17	63	65.4	2	25	27	16.1	4	27
BT50	AD+B	69.85	M24	25	100	101.8	3	35	38	25.7	6	42

Tabella tecnica Passaggio del refrigerante

Technical table coolant through

	SENZA PASSAGGIO DEL REFRIGERANTE WITHOUT COOLANT THROUGH	A
	PASSAGGIO DEL REFRIGERANTE CENTRALE COOLANT FROM CENTRE	AD
	PASSAGGIO DEL REFRIGERANTE DALLA FLANGIA COOLANT FROM FLANGE	B
	PASSAGGIO DEL REFRIGERANTE CENTRALE O DALLA FLANGIA COOLANT FROM CENTRE OR FLANGE	AD+B

I mandrini in forma AD+B possono essere usati per il passaggio del refrigerante dalla flangia e il passaggio del refrigerante dal canale centrale.

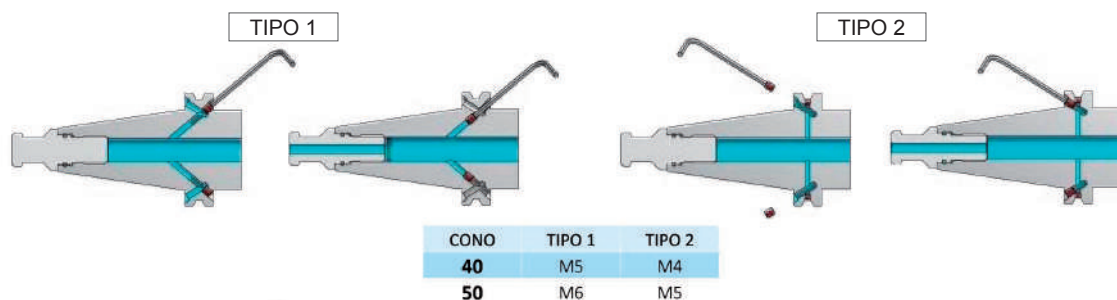
Nel sistema "TIPO 1" la regolazione avviene chiudendo il grano.

Nel sistema "TIPO 2" la regolazione avviene rimuovendo il grano.

Toolholders AD+B can be used with coolant through "V" flange and with coolant through centre

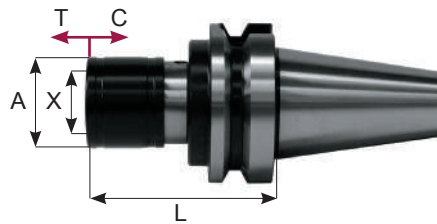
"TIPO 1" system works closing the screw.

"TIPO 2" system works removing the screw.



Mandrini con compressione e trazione

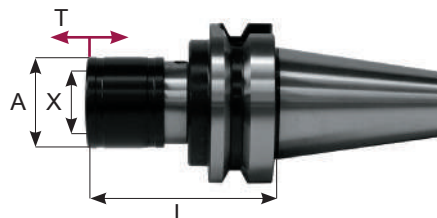
Tension and compression tap holders


BT30 / 40 / 50

CODICE	CAP	X	A	L	T	C	EUR
BT30-THTC0-L60	M1 ÷ M10	13	26	60	6.5	6.5	
BT40-THTC0-L75				75			
BT50-THTC0-L104				104			
BT30-THTC1-L61	M3 ÷ M12	19	36	61	7.5	7.5	
BT40-THTC1-L67				67			
BT50-THTC1-L83				83			
BT40-THTC2-L94	M8 ÷ M20	31	53	94	12.5	12.5	
BT50-THTC2-L107				107			
BT40-THTC3-L164	M14 ÷ M33	48	78	164	20	20	
BT50-THTC3-L141				141			
BT40-THTC4-L164	M22 ÷ M48	60	96	164	22.5	22.5	
BT50-THTC4-L161				161			

Mandrini con solo trazione

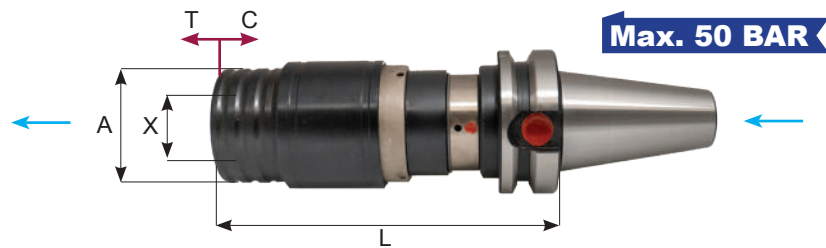
Tension tap holders


BT30 / 40 / 50

CODICE	CAP	X	A	L	T	C	EUR
BT30-THT0-L60	M1 ÷ M10	13	26	60	6.5	0	
BT40-THT0-L75				75			
BT50-THT0-L104				104			
BT30-THT1-L61	M3 ÷ M12	19	36	61	7.5	0	
BT40-THT1-L67				67			
BT50-THT1-L83				83			
BT40-THT2-L94	M8 ÷ M20	31	53	94	12.5	0	
BT50-THT2-L107				107			
BT40-THT3-L164	M14 ÷ M33	48	78	164	20	0	
BT50-THT3-L141				141			
BT40-THT4-L164	M22 ÷ M48	60	96	164	22.5	0	
BT50-THT4-L161				161			

Mandri con compressione e trazione con passaggio del refrigerante

Tension and compression tap holders coolant thru

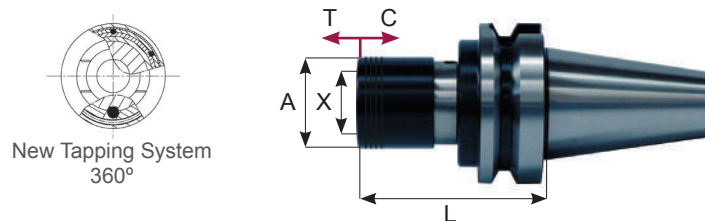


BT40 / 50

CODICE	CAP	X	A	L	T	C	EUR
BT40-THTC1-L101C	M3 ÷ M12	19	40	101	7	3	
BT50-THTC1-L110C				110			
BT40-THTC2-L137C	M8 ÷ M20	31	53	137	10	5	
BT50-THTC2-L146C				146			
BT40-THTC3-L232C	M14 ÷ M33	48	78	232	18	13	
BT50-THTC3-L211C				211			

Mandri con compressione e trazione MAS/403BT - 360°

Tension and compression tap holders MAS/403BT - 360°



BT40 / 50

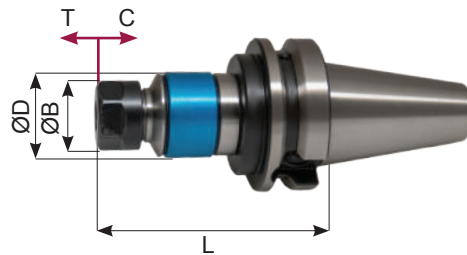
CODICE	CAP	X	A	L	T	C	EUR
BT40-GCTC1-L80	M3 ÷ M12	19	39	80	7.5	7.5	
BT50-GCTC1-L89				89			
BT40-GCT1-L72.5	M3 ÷ M12	19	39	72.5	12.5	0	
BT50-GCT1-L81.5				81.5			
BT40-GCTC2-L103	M8 ÷ M20	31	60	103	10	10	
BT50-GCTC2-L112				112			
BT40-GCT2-L93	M8 ÷ M20	31	60	93	16.5	0	
BT50-GCT2-L102				102			
BT50-GCTC3-L143	M14 ÷ M33	48	86	143	17.5	17.5	
BT50-GCT3-L125.5	M14 ÷ M33	48	86	125.5	35	0	

BT45 (Su richiesta)

Disponibile anche solo trazione / Also available only tension

SYER - Mandrino a micro-compensazione assiale in compressione e trazione

SYER - Quick-change tapping chuck with micro-compensation in compression and tension

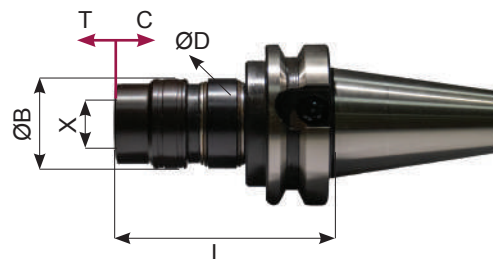


SYNCHRO

CODICE	CONO	T	C	CAP	GHIERA	ØD	ØB	L	EUR
BT30-SYER11-L66	BT30	0.5	0.5	1 ÷ 7	ER11	35	19	66	
BT30-SYER16M-L70				1 ÷ 10	ER16M	35	22	70	
BT30-SYER16-L70				1 ÷ 10	ER16	35	32	70	
BT30-SYER20-L74				1 ÷ 14	ER20	35	35	74	
BT30-SYER25-L78				1 ÷ 20	ER25	35	42	78	
BT30-SYER32-L86	BT40	0.5	0.5	2 ÷ 22	ER32	45	50	86	
BT40-SYER16M-L75				1 ÷ 10	ER16M	35	22	75	
BT40-SYER16-L75				1 ÷ 10	ER16	35	32	75	
BT40-SYER20-L79				1 ÷ 14	ER20	35	35	79	
BT40-SYER25-L83				1 ÷ 20	ER25	35	42	83	
BT40-SYER32-L91	BT50	0.5	0.5	2 ÷ 22	ER32	45	50	91	
BT40-SYER40-L115				3 ÷ 30	ER40	62	63	115	
BT50-SYER16M-L86				1 ÷ 10	ER16M	35	22	86	
BT50-SYER16-L86				1 ÷ 10	ER16	35	32	86	
BT50-SYER20-L90				1 ÷ 14	ER20	35	35	90	
BT50-SYER25-L94	BT50	0.5	0.5	1 ÷ 20	ER25	35	42	94	
BT50-SYER32-L102				2 ÷ 22	ER32	45	52	102	
BT50-SYER40-L120				3 ÷ 30	ER40	62	63	120	

SY - Mandrino a micro-compensazione assiale in compressione e trazione

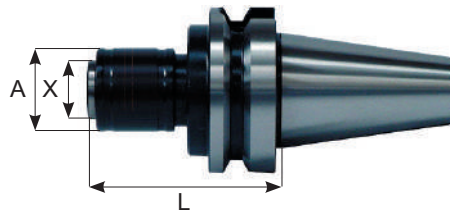
SY - Quick-change tapping chuck with micro-compensation in compression and tension



SYNCHRO

CODICE	CONO	T	C	CAP	X	ØD	ØB	L	EUR
BT30-SY1-L82	BT30	0.5	0.5	M3 ÷ M12	19	34	32	82	
BT40-SY1-L87	BT40			M3 ÷ M12	19	34	32	87	
BT50-SY1-L98	BT50			M3 ÷ M12	19	34	32	98	
BT30-SY2-L98	BT30			M8 ÷ M20	31	45	50	98	
BT40-SY2-L103	BT40			M8 ÷ M20	31	45	50	103	
BT50-SY2-L114	BT50			M8 ÷ M20	31	45	50	114	

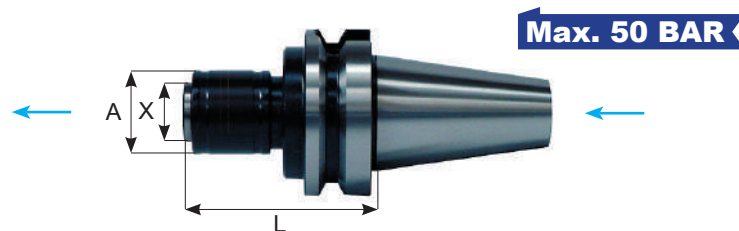
Mandrini rigidi
Rigid tap holders



BT40 / 50

CODICE	CAP	X	A	L	EUR
BT30-TLR1-L60	M3 ÷ M12	19	32	60	
BT40-TLR1-L64	M3 ÷ M12			64	
BT50-TLR1-L81	M3 ÷ M12			81	
BT40-TLR2-L91	M8 ÷ M20	31	50	91	
BT50-TLR2-L100				100	
BT40-TLR3-L118	M14 ÷ M33	48	72	118	
BT50-TLR3-L127				127	
BT50-TLR4-L150				M22 ÷ M48	60

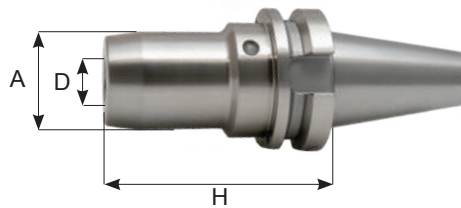
Mandrini rigidi con passaggio del refrigerante
Rigid tap holders coolant thru



BT40 / 50

CODICE	CAP	X	A	L	EUR
BT30-TLR1-L58C	M3 ÷ M12	19	32	58	
BT40-TLR1-L73C	M3 ÷ M12			73	
BT50-TLR1-L82C	M3 ÷ M12			82	
BT40-TLR2-L89C	M8 ÷ M20	31	50	89	
BT50-TLR2-L98C				98	
BT40-TLR3-L148C	M14 ÷ M33	48	72	148	
BT50-TLR3-L127C				127	

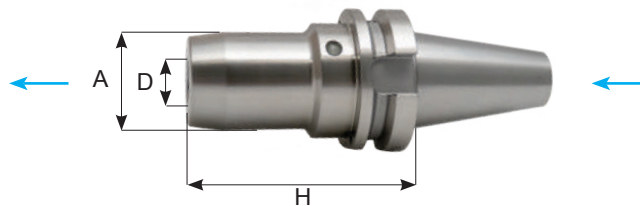
Mandrini idraulici
Hydraulic chucks



BT30

CODICE	FAM	D	FORMA	H	A	EUR
BT30.H50.8.HD6	5	6	AD	50.8	26	
BT30.H50.8.HD8		8		50.8	28	
BT30.H50.8.HD10		10		50.8	30	
BT30.H50.8.HD12		12		50.8	32	
BT30.H85.HD12		12		85	26.5	
BT30.H90.HD14		14		90	34	
BT30.H90.HD16		16		90	38	
BT30.H90.HD18		18		90	40	
BT30.H90.HD20		20		90	42	

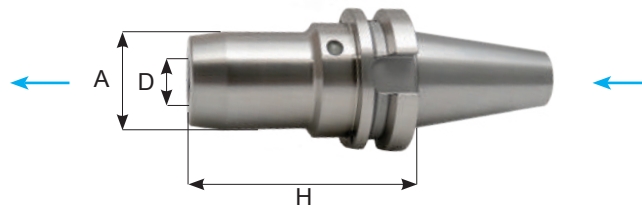
Mandrini idraulici con il passaggio del refrigerante
Hydraulic chucks with through coolant



BTB40

CODICE	FAM	D	FORMA	H	A	EUR
BTB40.H90.HD.6	5	6	AD+B	90	26	
BTB40.H140.HD6		6		140	26	
BTB40.H90.HD.8		8		90	28	
BTB40.H140.HD.8		8		140	28	
BTB40.H90.HD10		10		90	30	
BTB40.H140.HD.10		10		140	30	
BTB40.H90.HD.12		12		90	32	
BTB40.H140.HD.12		12		140	32	
BTB40.H90.HD.14		14		90	34	
BTB40.H140.HD.14		14		140	34	
BTB40.H90.HD.16		16		90	38	
BTB40.H140.HD.16		16		140	38	
BTB40.H90.HD.18		18		90	40	
BTB40.H140.HD.18		18		140	40	
BTB40.H90.HD.20		20		90	42	
BTB40.H140.HD.20		20		140	42	
BTB40.H90.HD.25		25		90	55	
BTB40.H140.HD.25		25		140	55	
BTB40.H90.HD.25		32		90	63	
BTB40.H140.HD.25		32		140	63	

Mandrini idraulici con il passaggio del refrigerante
 Hydraulic chucks with through coolant


BTB50

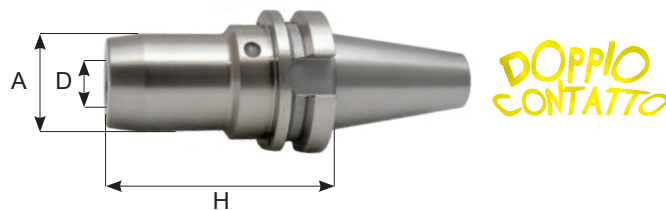
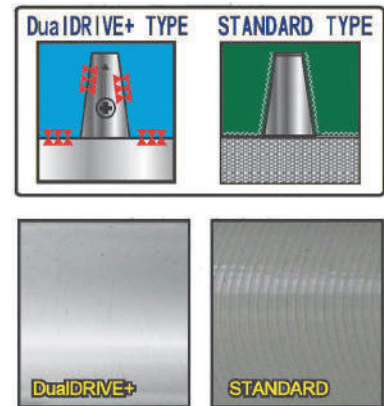
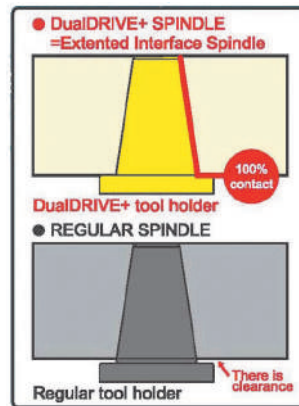
CODICE	FAM	D	FORMA	H	A	EUR
BTB50.H90.HD.6	5	6	AD+B	90	26	
BTB50.H140.HD.6		6		140	26	
BTB50.H90.HD.8		8		90	28	
BTB50.H140.HD.8		8		140	28	
BTB50.H90.HD.10		10		90	30	
BTB50.H140.HD.10		10		140	30	
BTB50.H90.HD.12		12		90	32	
BTB50.H140.HD.12		12		140	32	
BTB50.H90.HD.14		14		90	34	
BTB50.H140.HD.14		14		140	34	
BTB50.H90.HD.16		16		90	38	
BTB50.H140.HD.16		16		140	38	
BTB50.H90.HD.18		18		90	40	
BTB50.H140.HD.18		18		140	40	
BTB50.H90.HD.20		20		90	42	
BTB50.H140.HD.20		20		140	42	
BTB50.H90.HD.25		25		90	55	
BTB50.H140.HD.25		25		140	55	
BTB50.H90.HD.32		32		90	63	
BTB50.H140.HD.32		32		140	63	

Mandrini idraulici Doppio Contatto
Hydraulic chucks Dual Drive

**DOPPIO
CONTATTO**



CONO TAPER	FORMA FORM
DCBT30	AD
DCBT40	AD
DCBT50	AD

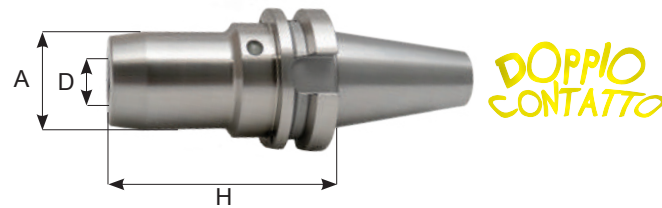


DCBT30

CODICE	FAM	D	FORMA	H	A	EUR
DCBT30.H50.8.HD6	5	6	AD	50.8	26	
DCBT30.H50.8.HD8		8		50.8	28	
DCBT30.H50.8.HD10		10		50.8	30	
DCBT30.H50.8.HD12		12		50.8	32	
DCBT30.H90.HD14		14		90	34	
DCBT30.H90.HD16		16		90	38	
DCBT30.H90.HD18		18		90	40	
DCBT30.H90.HD20		20		90	42	

Mandrini idraulici Doppio Contatto

Hydraulic chucks Dual Drive

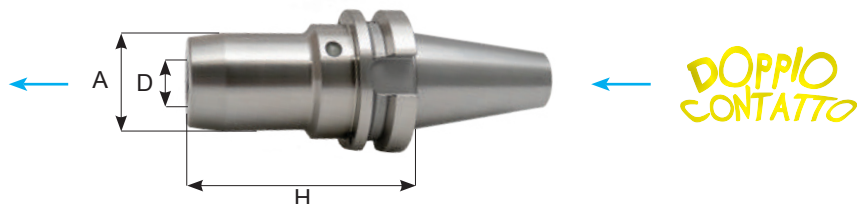


DCBT40

CODICE	FAM	D	FORMA	H	A	EUR
DCBT40.H90.HD.6	5	6	AD	90	26	
DCBT40.H140.HD.6		140		26		
DCBT40.H90.HD.8		90		28		
DCBT40.H140.HD.8		140		28		
DCBT40.H90.HD.10		90		30		
DCBT40.H140.HD.10		140		30		
DCBT40.H90.HD.12		90		32		
DCBT40.H140.HD.12		140		32		
DCBT40.H90.HD.14		90		34		
DCBT40.H140.HD.14		140		34		
DCBT40.H90.HD.16		90		38		
DCBT40.H140.HD.16		140		38		
DCBT40.H90.HD.18		90		40		
DCBT40.H140.HD.18		140		40		
DCBT40.H90.HD.20		90		42		
DCBT40.H140.HD.20		140		42		
DCBT40.H90.HD.25		90		55		
DCBT40.H140.HD.25		140		55		
DCBT40.H90.HD.32		90		63		
DCBT40.H140.HD.32		140		63		

Mandrini idraulici Doppio Contatto

Hydraulic chucks Dual Drive coolant thru

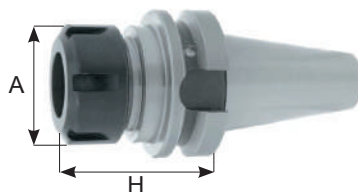


DCBTB50

CODICE	FAM	D	FORMA	H	A	EUR
DCBTB50.H90.HD.6	5	6	AD	90	26	
DCBTB50.H140.HD.6		140		26		
DCBTB50.H90.HD.8		90		28		
DCBTB50.H140.HD.8		140		28		
DCBTB50.H90.HD.10		90		30		
DCBTB50.H140.HD.10		140		30		
DCBTB50.H90.HD.12		90		32		
DCBTB50.H140.HD.12		140		32		
DCBTB50.H90.HD.14		90		34		
DCBTB50.H140.HD.14		140		34		
DCBTB50.H90.HD.16		90		38		
DCBTB50.H140.HD.16		140		38		
DCBTB50.H90.HD.18		90		40		
DCBTB50.H140.HD.18		140		40		
DCBTB50.H90.HD.20		90		42		
DCBTB50.H140.HD.20		140		42		
DCBTB50.H110.HD.25		110		55		
DCBTB50.H140.HD.25		140		55		
DCBTB50.H110.HD.32		110		63		
DCBTB50.H140.HD.32		140		63		

Portapinze "TG"

TG collet chucks

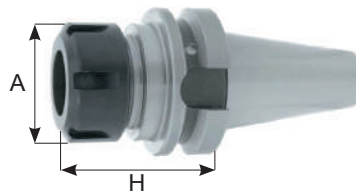


BT30 / 40 / 50

CODICE	FAM	FORMA	H	A	EUR
BT30-TG75-L75	4	AD	75	50	
BT40-TG75-L75			75	50	
BT40-TG100-L80			80	60	
BT40-TG100-L100			100	60	
BT40-TG150-L110			110	85	
BT50-TG100-L90			90	60	
BT50-TG100-L150			150	60	
BT50-TG100-L200			200	60	
BT50-TG150-L100			100	85	
BT50-TG150-L150			150	85	

Portapinzze ER con ghiera STANDARD

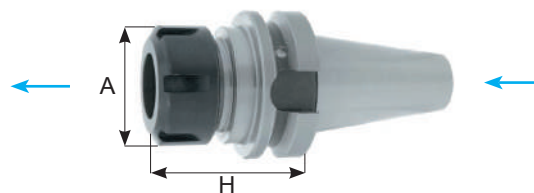
Collet chucks ER STANDARD nut


BT30

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
BT30.H55.ERC16	1	1 ÷ 10	12.000	AD	55	28	
BT30.H70.ERC16					70		
BT30.H100.ERC16					100		
BT30.H70.ERC20		1 ÷ 14			70	34	
BT30.H70.ERC25		1 ÷ 20			70	42	
BT30.H100.ERC25		100					
BT30.H70.ERC32		2 ÷ 22			70	50	
BT30.H100.ERC32		100					
BT30.H80.ERC40		3 ÷ 30			80	63	

Portapinzze ER con ghiera STANDARD con passaggio del refrigerante

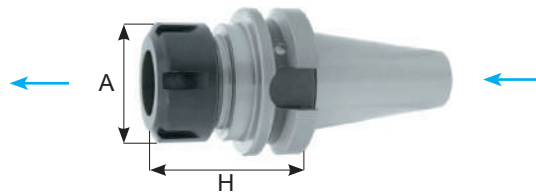
Collet chucks ER STANDARD nut coolant thru


BTB40

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
BTB40.H70.ERC16	1	1 ÷ 10	12.000	AD+B	70	28	
BTB40.H100.ERC16					100		
BTB40.H130.ERC16					130		
BTB40.H160.ERC16					160		
BTB40.H200.ERC16					200		
BTB40.H70.ERC20					70		34
BTB40.H100.ERC20		100					
BTB40.H160.ERC20		160					
BTB40.H70.ERC25		70			42		
BTB40.H100.ERC25		100					
BTB40.H130.ERC25		130					
BTB40.H160.ERC25		160					
BTB40.H200.ERC25		200					
BTB40.H70.ERC32		70				50	
BTB40.H100.ERC32		100					
BTB40.H130.ERC32		130					
BTB40.H160.ERC32		160					
BTB40.H200.ERC32		200					
BTB40.H70.ERC40		70			63		
BTB40.H100.ERC40		100					
BTB40.H130.ERC40		130					
BTB40.H160.ERC40		160					
BTB40.H200.ERC40		200					
BTB40.H85.ERC50		6 ÷ 34				85	78

Portapinze ER con ghiera STANDARD con passaggio del refrigerante

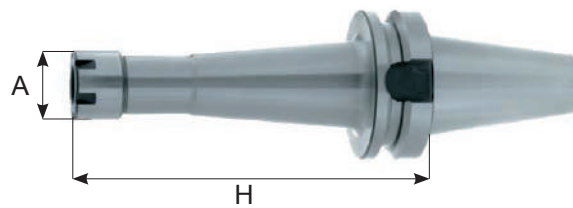
Collet chucks ER STANDARD nut coolant thru


BTB50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR		
BTB50.H100.ERC16	1	1 ÷ 10	12.000	AD+B	100	28			
BTB50.H160.ERC16					160				
BTB50.H200.ERC16					200				
BTB50.H100.ERC20		1 ÷ 14			100	34			
BTB50.H160.ERC20					160				
BTB50.H200.ERC20					200				
BTB50.H80.ERC25		1 ÷ 20			80	42			
BTB50.H100.ERC25					100				
BTB50.H130.ERC25					130				
BTB50.H160.ERC25		2 ÷ 22			160	50			
BTB50.H200.ERC25					200				
BTB50.H80.ERC32					80				
BTB50.H100.ERC32		3 ÷ 30			100	63			
BTB50.H130.ERC32					130				
BTB50.H160.ERC32					160				
BTB50.H200.ERC32					200				
BTB50.H250.ERC32					250				
BTB50.H80.ERC40		6 ÷ 34			80	78			
BTB50.H100.ERC40					100				
BTB50.H130.ERC40					130				
BTB50.H160.ERC40					160				
BTB50.H200.ERC40					200				
BTB50.H250.ERC40					250				
BTB50.H100.ERC50								100	
BTB50.H130.ERC50								130	
BTB50.H160.ERC50								160	

Portapinze ER con ghiera MINI

Collet chucks ER MINI nut


BT30

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
BT30.H100.ERC8M	1	1 ÷ 5	15.000	AD	100	12	
BT30.H100.ERC11M		1 ÷ 7			80	16	
BT30.H100.ERC16M		1 ÷ 10	12.000		120	22	
BT30.H100.ERC20M		1 ÷ 14			100	28	
BT30.H100.ERC25M		1 ÷ 20			100	38	

Portapinze ER con ghiera MINI con passaggio del refrigerante

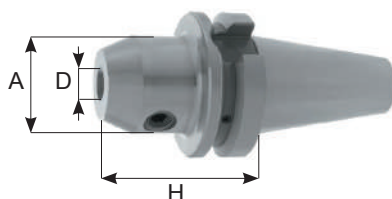
Collet chucks ER MINI nut coolant thru


BTB40 / 50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR			
BTB40.H100.ERC11M	1	1 ÷ 7	12.000	AD+B	100	16				
BTB40.H130.ERC11M					130					
BTB40.H160.ERC11M					160					
BTB40.H100.ERC16M		1 ÷ 10			12.000	100	22			
BTB40.H130.ERC16M						130				
BTB40.H160.ERC16M						160				
BTB40.H100.ERC20M		1 ÷ 14			12.000	100	28			
BTB40.H130.ERC20M						130				
BTB40.H160.ERC20M						160				
BTB40.H100.ERC25M		1 ÷ 20			12.000	100	35			
BTB40.H160.ERC25M						160				
BTB40.H200.ERC25M						200				
BTB50.H130.ERC16M		1			1 ÷ 10	12.000	AD+B	135	22	
BTB50.H160.ERC16M								160		
BTB50.H200.ERC16M					200					
BTB50.H130.ERC20M					1 ÷ 14			130	28	

Portafrese Weldon DIN/1835-B

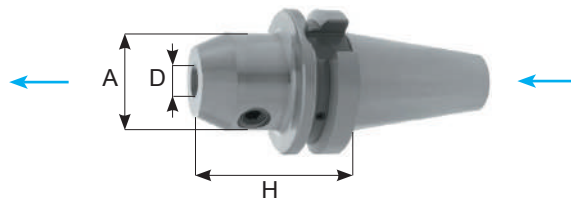
End mill holders for DIN/1835-B


BT30

CODICE	FAM	D	FORMA	H	A	EUR
BT30.H50.WE6	1	6	AD	50	25	
BT30.H100.WE6				100		
BT30.H50.WE8		8		50	28	
BT30.H100.WE8				100		
BT30.H50.WE10		10		50	35	
BT30.H100.WE10				100		
BT30.H50.WE12		12		50	42	
BT30.H100.WE12				100		
BT30.H50.WE14		14		50	44	
BT30.H100.WE14				100		
BT30.H63.WE16		16		63	48	
BT30.H100.WE16				100		
BT30.H63.WE18		18		63	50	
BT30.H100.WE18				100		
BT30.H63.WE20		20		63	52	
BT30.H100.WE20				100		

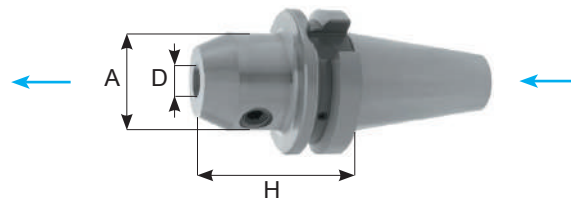
Portafrese Weldon DIN/1835-B con passaggio del refrigerante

End mill holders for DIN/1835-B coolant thru


BTB40

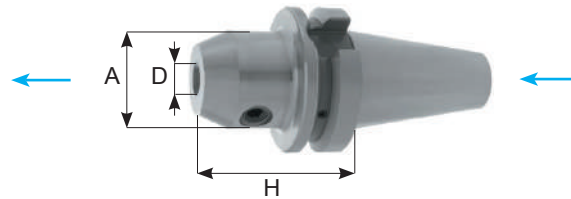
CODICE	FAM	D	FORMA	H	A	EUR	
BTB40.H50.WE6	1	6	AD+B	50	25		
BTB40.H100.WE6				100			
BTB40.H130.WE6				130			
BTB40.H160.WE6				160			
BTB40.H50.WE8		8		8	50	28	
BTB40.H100.WE8					100		
BTB40.H130.WE8					130		
BTB40.H160.WE8					160		
BTB40.H63.WE10		10		10	63	35	
BTB40.H100.WE10					100		
BTB40.H130.WE10					130		
BTB40.H160.WE10					160		
BTB40.H63.WE12		12		12	63	42	
BTB40.H100.WE12					100		
BTB40.H130.WE12					130		
BTB40.H160.WE12					160		
BTB40.H63.WE14		14		14	63	44	
BTB40.H100.WE14					100		
BTB40.H130.WE14					130		
BTB40.H160.WE14					160		
BTB40.H63.WE16		16		16	63	48	
BTB40.H100.WE16					100		
BTB40.H130.WE16					130		
BTB40.H160.WE16					160		
BTB40.H200.WE16					200		
BTB40.H63.WE18		18		18	63	50	
BTB40.H100.WE18					100		
BTB40.H130.WE18					130		
BTB40.H160.WE18					160		
BTB40.H200.WE18					200		
BTB40.H63.WE20		20		20	63	52	
BTB40.H100.WE20					100		
BTB40.H130.WE20					130		
BTB40.H160.WE20					160		
BTB40.H200.WE20					200		
BTB40.H90.WE25		25		25	90	65	
BTB40.H130.WE25					130		
BTB40.H160.WE25					160		
BTB40.H200.WE25					200		
BTB40.H100.WE32		32		32	100	72	
BTB40.H130.WE32	130						
BTB40.H160.WE32	160						
BTB40.H200.WE32	200						
BTB40.H120.WE40	40		120	80			

Portafrese Weldon DIN/1835-B con passaggio del refrigerante
 End mill holders for DIN/1835-B coolant thru


BTB50

CODICE	FAM	D	FORMA	H	A	EUR
BTB50.H63.WE6	1	6	AD+B	63	25	
BTB50.H100.WE6				100		
BTB50.H130.WE6				130		
BTB50.H160.WE6				160		
BTB50.H200.WE6				200		
BTB50.H63.WE8				8		63
BTB50.H100.WE8		100				
BTB50.H130.WE8		130				
BTB50.H160.WE8		160				
BTB50.H200.WE8		200				
BTB50.H63.WE10		10			63	35
BTB50.H100.WE10				100		
BTB50.H130.WE10				130		
BTB50.H160.WE10				160		
BTB50.H200.WE10				200		
BTB50.H80.WE12				12	80	
BTB50.H100.WE12		100				
BTB50.H130.WE12		130				
BTB50.H160.WE12		160				
BTB50.H200.WE12		200				
BTB50.H80.WE14		14			80	44
BTB50.H100.WE14				100		
BTB50.H130.WE14				130		
BTB50.H160.WE14				160		
BTB50.H200.WE14	200					
BTB50.H80.WE16	16		80	48		
BTB50.H100.WE16		100				
BTB50.H130.WE16		130				
BTB50.H160.WE16		160				
BTB50.H200.WE16		200				

Portafrese Weldon DIN/1835-B con passaggio del refrigerante
End mill holders for DIN/1835-B coolant thru

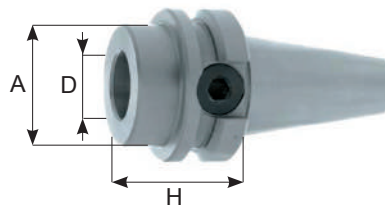


BTB50

CODICE	FAM	D	FORMA	H	A	EUR	
BTB50.H80.WE18	1	18	AD+B	80	50		
BTB50.H100.WE18				100			
BTB50.H130.WE18				130			
BTB50.H160.WE18				160			
BTB50.H200.WE18				200			
BTB50.H80.WE20		20		80	52		
BTB50.H100.WE20				100			
BTB50.H130.WE20				130			
BTB50.H160.WE20				160			
BTB50.H200.WE20				200			
BTB50.H100.WE25		25		100	65		
BTB50.H130.WE25				130			
BTB50.H160.WE25				160			
BTB50.H200.WE25				200			
BT50.H250.WE25				AD		250	
BTB50.H105.WE32		32		105	72		
BTB50.H130.WE32				AD+B		130	
BTB50.H160.WE32				160			
BTB50.H200.WE32				200			
BTB50.H250.WE32				AD		250	
BTB50.H120.WE40		40		120	AD+B	80	
BTB50.H160.WE40				160			
BTB50.H200.WE40				200			
BTB50.H125.WE50				50			125

Portafrese Weldon extra corto DIN/1835-B

Short type end mill holders for DIN/1835-B shanks

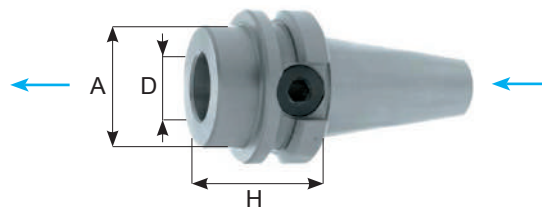


BT30

CODICE	FAM	D	FORMA	H	A	EUR
BT30.H32.WE6	1-12	6	AD	32	25	
BT30.H32.WE8		8		32	28	
BT30.H32.WE10		10		32	35	
BT30.H32.WE12		12		32	42	
BT30.H35.WE16		16		35	48	
BT30.H35.WE20		20		35	52	

Portafrese Weldon extra corto DIN/1835-B con passaggio del refrigerante

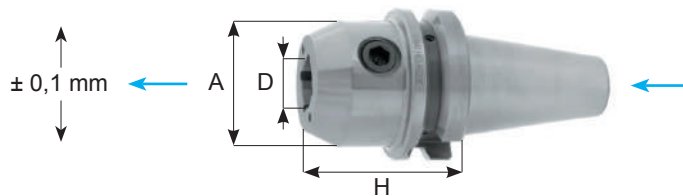
Short type end mill holders for DIN/1835-B shanks coolant thru



BTB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
BTB40.H35.WE16	1-12	16	AD+B	35	44	
BTB40.H35.WE20		20		35	44	
BTB40.H35.WE25		25		35	44	
BTB40.H60.WE25		25		60	49	
BTB40.H40.WE32		32		40	44	
BTB40.H70.WE32		32		70	72	
BTB50.H44.WE16	1-12	16	AD+B	44	70	
BTB50.H44.WE20		20				
BTB50.H44.WE25		25				
BTB50.H44.WE32		32				
BTB50.H44.WE40		40				

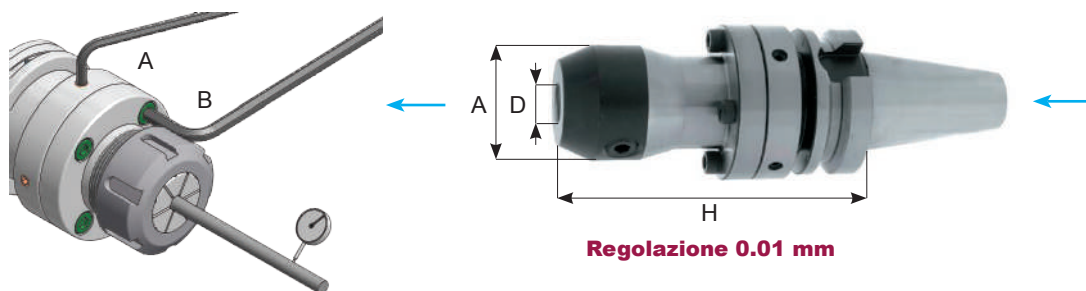
Portafrese Weldon con passaggio del refrigerante
End mill holders coolant channels



BTB40

CODICE	FAM	D	FORMA	H	A	EUR
BTB40.H65.WE6C	1	6	AD+B	65	25	
BTB40.H65.WE8C		8		65	28	
BTB40.H65.WE10C		10		65	35	
BTB40.H65.WE12C		12		65	42	
BTB40.H65.WE14C		14		65	44	
BTB40.H65.WE16C		16		65	48	
BTB40.H65.WE18C		18		65	50	
BTB40.H65.WE20C		20		65	52	
BTB40.H100.WE25C		25		100	65	
BTB40.H100.WE32C		32		100	72	

Portafrese Weldon con regolazione radiale con passaggio del refrigerante
Radial adjustable en mill holders coolant thru



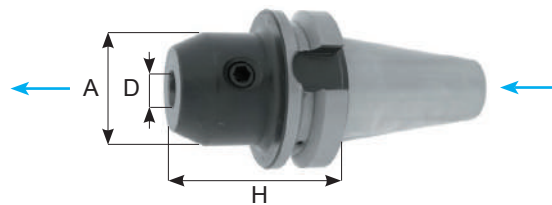
Allentare le viti B e regolare la centratura tramite le viti A.
Loosen screws B and use screws A for radial adjustment.

BTB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
BTB40.H100.WE6RG	1	6	AD+B	100	25	
BTB40.H100.WE8RG		8		100	28	
BTB40.H100.WE10RG		10		100	35	
BTB40.H110.WE12RG		12		110	40	
BTB40.H110.WE14RG		14		110	40	
BTB40.H130.WE16RG		16		130	48	
BTB40.H130.WE18RG		18		130	48	
BTB40.H135.WE20RG		20		135	52	
BTB50.H120.WE12RG		12		120	40	
BTB50.H120.WE14RG		14		120	40	
BTB50.H140.WE16RG		16		140	48	
BTB50.H140.WE18RG		18		140	48	
BTB50.H145.WE20RG		20		145	52	

Portafrese Weldon Whistle-Notch con passaggio del refrigerante

Whistle-Notch end mill holders coolant thru

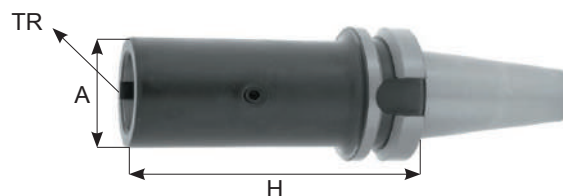


BTB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
BTB40.H50.WHN6	1	6	AD+B	50	25	
BTB40.H50.WHN8		8		50	28	
BTB40.H63.WHN10		10		63	35	
BTB40.H63.WHN12		12		63	42	
BTB40.H63.WHN14		14		63	44	
BTB40.H63.WHN16		16		63	48	
BTB40.H63.WHN18		18		63	50	
BTB40.H63.WHN20		20		63	52	
BTB40.H90.WHN25		25		90	65	
BTB40.H100.WHN32		32		100	72	
BTB50.H63.WHN6		6		63	25	
BTB50.H63.WHN8		8		63	28	
BTB50.H63.WHN10		10		63	35	
BTB50.H80.WHN12		12		80	42	
BTB50.H80.WHN14		14		80	44	
BTB50.H80.WHN16		16		80	48	
BTB50.H80.WHN18		18		80	50	
BTB50.H80.WHN20		20		80	52	
BTB50.H100.WHN25		25		100	65	
BTB50.H105.WHN32		32		105	72	
BTB50.H105.WHN40	40	105	80			

Porta utensili per DIN/6327

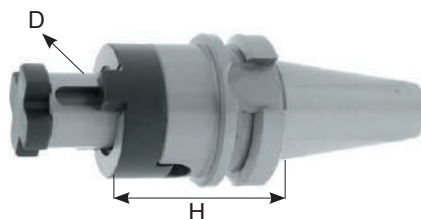
Automotive shank adapters DIN/6327



BT40 / 50

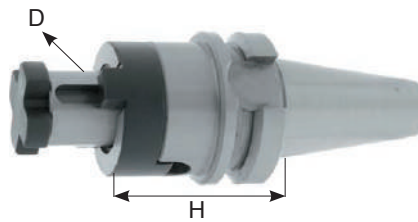
CODICE	FAM	TR	H	A	EUR
BT40.H100.TR28	1	28	100	40	
BT40.H115.TR36		36	115	50	
BT50.H100.TR28		28	100	40	
BT50.H100.TR36		36	100	50	
BT50.H105.TR48		48	105	67	

Portafrese combinato
 Combi shell end mill holders


BT30 / 40

CODICE	FAM	D	FORMA	H	EUR
BT30.H43.D16C	1	16	AD	43	
BT30.H50.D22C		22		50	
BT30.H50.D27C		27		50	
BT30.H60.D32C		32		60	
BT40.H55.D16C	1-11	16		55	
BT40.H100.D16C				100	
BT40.H130.D16C				130	
BT40.H160.D16C				160	
BT40.H55.D22C		22		55	
BT40.H100.D22C				100	
BT40.H130.D22C				130	
BT40.H160.D22C		27		160	
BT40.H55.D27C				55	
BT40.H100.D27C				100	
BT40.H130.D27C				130	
BT40.H160.D27C	32	160			
BT40.H60.D32C		60			
BT40.H100.D32C		100			
BT40.H130.D32C		130			
BT40.H160.D32C	40	160			
BT40.H60.D40C		60			
BT40.H100.D40C		100			
BT40.H130.D40C		130			
BT40.H160.D40C		160			

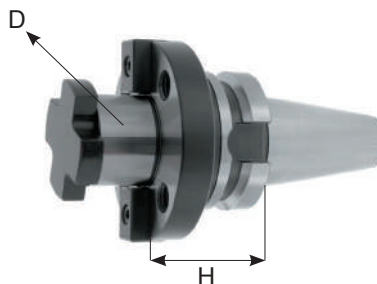
Portafrese combinato
Combi shell end mill holders



BT50

CODICE	FAM	D	FORMA	H	EUR
BT50.H70.D16C	1-11	16	AD	70	
BT50.H100.D16C				100	
BT50.H130.D16C				130	
BT50.H70.D22C		22		70	
BT50.H100.D22C				100	
BT50.H130.D22C				130	
BT50.H160.D22C		160			
BT50.H70.D27C		27		70	
BT50.H100.D27C				100	
BT50.H130.D27C				130	
BT50.H160.D27C		160			
BT50.H70.D32C		32		70	
BT50.H100.D32C				100	
BT50.H130.D32C				130	
BT50.H160.D32C		160			
BT50.H70.D40C		40		70	
BT50.H100.D40C				100	
BT50.H130.D40C				130	
BT50.H160.D40C				160	

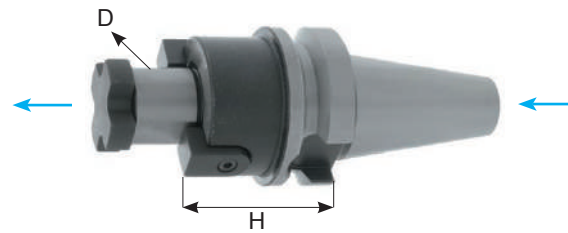
Portafrese fisso con diametro maggiorat
Face mill holders



BT40 / 50

CODICE	FAM	D	FORMA	H	EUR
BTB40.H60.D40FM	1	40	AD+B	60	
BTB50.H55.D40FM		40	AD+B	55	
BTB50.H80.D60FM		60	AD+B	80	

Portafrese fisso con passaggio del lubrifican
Shell end mill holders coolant channels

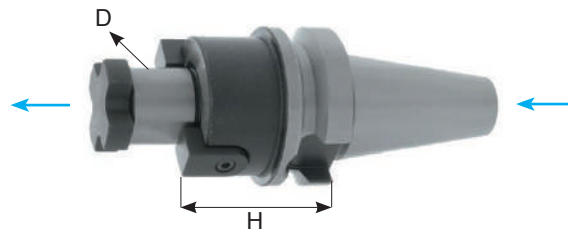


BTB40

CODICE	FAM	D	FORMA	H	EUR
BTB40.H45.D16S	1-11	16	AD+B	45	
BTB40.H100.D16S				100	
BTB40.H130.D16S				130	
BTB40.H160.D16S				160	
BTB40.H200.D16S				200	
BTB40.H45.D22S		22		45	
BTB40.H100.D22S				100	
BTB40.H130.D22S				130	
BTB40.H160.D22S				160	
BTB40.H200.D22S				200	
BTB40.H45.D27S		27		45	
BTB40.H100.D27S				100	
BTB40.H130.D27S				130	
BTB40.H160.D27S				160	
BTB40.H200.D27S				200	
BTB40.H56.D32S		32		56	
BTB40.H100.D32S				100	
BTB40.H130.D32S				130	
BTB40.H160.D32S				160	
BTB40.H200.D32S				200	
BTB40.H60.D40S		40		60	
BTB40.H100.D40S				100	
BTB40.H130.D40S				130	
BTB40.H160.D40S				160	
BTB40.H200.D40S				200	

Portafrese fisso con passaggio del lubrificante

Shell end mill holders coolant channels

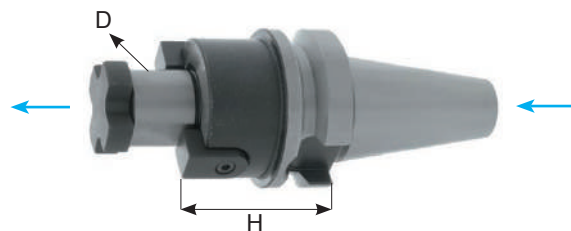


BTB50

CODICE	FAM	D	FORMA	H	EUR
BTB50.H50.D16SP	1	16	AD+B	50	
BTB50.H75.D16S				75	
BTB50.H100.D16S				100	
BTB50.H130.D16S				130	
BTB50.H160.D16S				160	
BTB50.H200.D16S				200	
BTB50.H250.D16S				250	
BTB50.H300.D16S				300	
BTB50.H350.D16S				350	
BTB50.H55.D22S				22	55
BTB50.H75.D22S		75			
BTB50.H100.D22S		100			
BTB50.H130.D22S		130			
BTB50.H160.D22S		160			
BTB50.H200.D22S		200			
BTB50.H250.D22S		250			
BTB50.H300.D22S		300			
BTB50.H350.D22S		350			
BTB50.H55.D27S		27			55
BTB50.H75.D27S				75	
BTB50.H100.D27S				100	
BTB50.H130.D27S				130	
BTB50.H160.D27S				160	
BTB50.H200.D27S				200	
BTB50.H250.D27S				250	
BTB50.H300.D27S				300	
BTB50.H350.D27S				350	
BTB50.H55.D32S				32	55
BTB50.H75.D32S		75			
BTB50.H100.D32S		100			
BTB50.H130.D32S		130			
BTB50.H160.D32S		160			
BTB50.H200.D32S		200			
BTB50.H250.D32S		250			
BTB50.H300.D32S		300			
BTB50.H350.D32S	350				

Portafrese fisso con passaggio del lubrificante

Shell end mill holders coolant channels

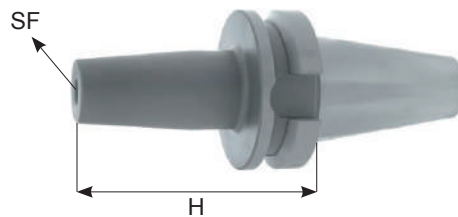


BTB50

CODICE	FAM	D	FORMA	H	EUR
BTB50.H55.D40S	1	40	AD+B	55	
BTB50.H75.D40S				75	
BTB50.H100.D40S				100	
BTB50.H130.D40S				130	
BTB50.H160.D40S				160	
BTB50.H200.D40S				200	

Mandrini a calettamento (4,5°)

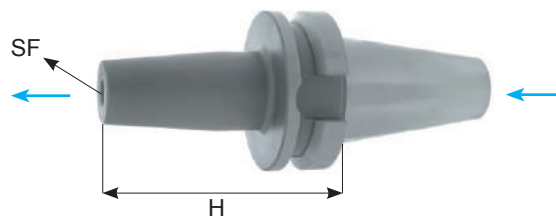
Shrink Fit holders (4,5°)


BT30
BILANCIATO G2,5 RPM25000
 BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
BT30.H80.SF3	5	SF3	AD	80	
BT30.H80.SF4		SF4		80	
BT30.H80.SF5		SF5		80	
BT30.H80.SF6		SF6		80	
BT30.H80.SF8		SF8		80	
BT30.H80.SF10		SF10		80	
BT30.H80.SF12		SF12		80	
BT30.H80.SF16		SF16		80	
BT30.H80.SF20		SF20		80	

Mandrini a calettamento con passaggio del refrigerante (4,5°)

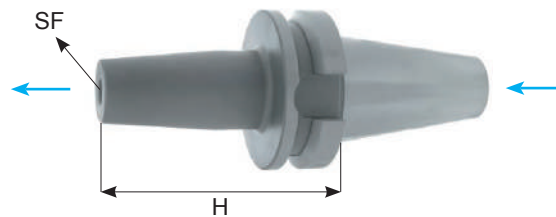
Shrink fit holders coolant thru (4,5°)


BTB40
BILANCIATO G2,5 RPM25000
 BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
BTB40.H90.SF3	5-11	SF3	AD+B	90	
BTB40.H90.SF4		SF4		90	
BTB40.H90.SF5		SF5		90	
BTB40.H90.SF6		SF6		90	
BTB40.H120.SF6		SF6		120	
BTB40.H160.SF6		SF6		160	
BTB40.H90.SF8		SF8		90	
BTB40.H120.SF8		SF8		120	
BTB40.H160.SF8		SF8		160	
BTB40.H90.SF10		SF10		90	
BTB40.H120.SF10		SF10		120	
BTB40.H160.SF10		SF10		160	
BTB40.H90.SF12		SF12		90	
BTB40.H120.SF12		SF12		120	
BTB40.H160.SF12		SF12		160	
BTB40.H90.SF14		SF14		90	
BTB40.H90.SF16		SF16		90	
BTB40.H120.SF16		SF16		120	
BTB40.H160.SF16		SF16		160	
BTB40.H90.SF18		SF18		90	
BTB40.H90.SF20		SF20		90	
BTB40.H120.SF20		SF20		120	
BTB40.H160.SF20		SF20		160	
BTB40.H100.SF25		SF25		100	

Mandrini a calettamento con passaggio del refrigerante (4,5°)

Shrink fit holders coolant thru (4,5°)



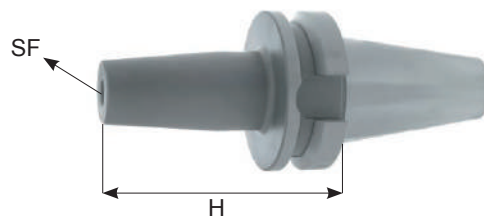
BTB50

BILANCIATO G2,5 RPM25000
BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
BTB50.H100.SF6	5	SF6	AD+B	100	
BTB50.H100.SF8		SF8		100	
BTB50.H100.SF10		SF10		100	
BTB50.H100SF12		SF12		100	
BTB50.H100.SF14		SF14		100	
BTB50.H100.SF16		SF16		100	
BTB50.H100.SF18		SF18		100	
BTB50.H100.SF20		SF20		100	
BTB50.H110.SF25		SF25		110	
BTB50.H110.SF32		SF32		110	

Mandrino a calettamento termico silm (3°)

Shrink fit holders slim (3°)



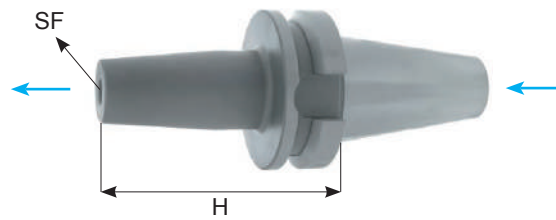
BT30

BILANCIATO G2,5 RPM25000
BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
BT30.H80.SF3	5	SF3	AD	80	
BT30.H80.SF4		SF4		80	
BT30.H80.SF5		SF5		80	
BT30.H80.SF6		SF6		80	
BT30.H100.SF6		SF6		100	
BT30.H80.SF8		SF8		80	
BT30.H100.SF8		SF8		100	
BT30.H80.SF10		SF10		80	
BT30.H100.SF10		SF10		100	
BT30.H80.SF12		SF12		80	
BT30.H100.SF12		SF12		100	

Mandrini a calettamento con passaggio del refrigerante (3°)

Shrink fit holders coolant thru (3°)



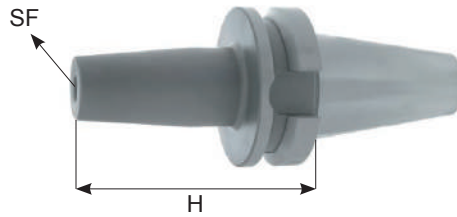
BTB40

BILANCIATO G2,5 RPM25000
BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
BTB40.H90.SF3	5-11	SF3	AD+B	90	
BTB40.H120.SF3		SF3		120	
BTB40.H90.SF4		SF4		90	
BTB40.H120.SF4		SF4		120	
BTB40.H90.SF5		SF5		90	
BTB40.H120.SF5		SF5		120	
BTB40.H90.SF6		SF6		90	
BTB40.H120.SF6		SF6		120	
BTB40.H160.SF6		SF6		160	
BTB40.H90.SF8		SF8		90	
BTB40.H120.SF8		SF8		120	
BTB40.H160.SF8		SF8		160	
BTB40.H90.SF10		SF10		90	
BTB40.H120.SF10		SF10		120	
BTB40.H160.SF10		SF10		160	
BTB40.H90.SF12		SF12		90	
BTB40.H120.SF12		SF12		120	
BTB40.H160.SF12		SF12		160	

Mandrino a calettamento con passaggio del refrigerante (3°)

Shrink fit holders coolant thru (3°)



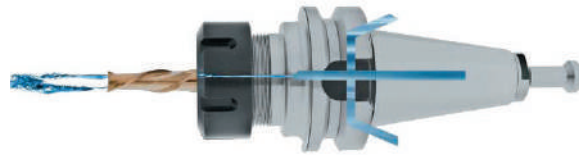
BTB50

BILANCIATO G2,5 RPM25000
BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
BTB50.H100.SF3	5	SF3	AD+B	100	
BTB50.H120.SF3		SF3		120	
BTB50.H100.SF4		SF4		100	
BTB50.H120.SF4		SF4		120	
BTB50.H100.SF5		SF5		100	
BTB50.H120.SF5		SF5		120	
BTB50.H100.SF6		SF6		100	
BTB50.H120.SF6		SF6		120	
BTB50.H160.SF6		SF6		160	
BTB50.H100.SF10		SF10		100	
BTB50.H120.SF10		SF10		120	
BTB50.H160.SF10		SF10		160	
BTB50.H100.SF12		SF12		100	
BTB50.H120.SF12		SF12		120	
BTB50.H160.SF12		SF12		160	

Mandrini a doppio contatto
Double contact spindles

Forma
AD+B = BTB



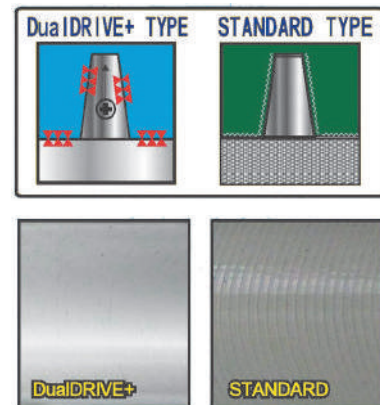
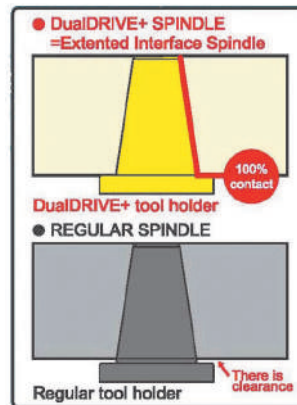
Forma
AD = BT



**DOPPIO
CONTATTO**

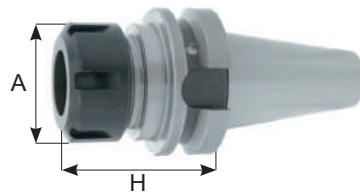


CONO TAPER	FORMA FORM
DCBT30	AD
DCBT40	AD
DCBT50	AD



Portapinze ER con ghiere STANDARD Doppio Contatto

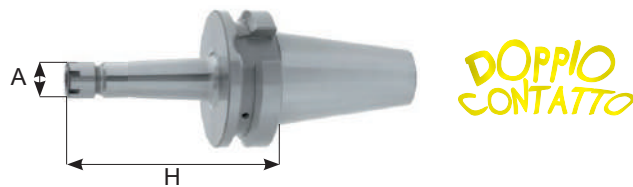
Collet chucks ER STANDARD nut Dual Drive


**DOPPIO
 CONTATTO**
DCBT30 / 40 / 50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
DCBT30.H70.ERC16	1	1 ÷ 10	12.000	AD	70	28	
DCBT30.H70.ERC20		1 ÷ 14			70	34	
DCBT30.H70.ERC25		1 ÷ 20			70	42	
DCBT30.H70.ERC32		2 ÷ 22			70	50	
DCBT30.H80.ERC40		3 ÷ 30			80	63	
DCBT40.H70.ERC16		1 ÷ 10			70	28	
DCBT40.H100.ERC16					100		
DCBT40.H70.ERC20		1 ÷ 14			70	34	
DCBT40.H100.ERC20					100		
DCBT40.H70.ERC25		1 ÷ 20			70	42	
DCBT40.H100.ERC25					100		
DCBT40.H70.ERC32		2 ÷ 22			70	50	
DCBT40.H100.ERC32					100		
DCBT40.H70.ERC40		3 ÷ 30			70	63	
DCBT40.H100.ERC40					100		
DCBT50.H80.ERC16		1 ÷ 10			80	28	
DCBT50.H100.ERC16					100		
DCBT50.H80.ERC20		1 ÷ 14			80	34	
DCBT50.H100.ERC20					100		
DCBT50.H80.ERC25		1 ÷ 20			80	42	
DCBT50.H100.ERC25					100		
DCBT50.H80.ERC32					80		
DCBT50.H100.ERC32		2 ÷ 22			100	50	
DCBT50.H130.ERC32					130		
DCBT50.H200.ERC32					200		
DCBT50.H80.ERC40		3 ÷ 30			80	63	
DCBT50.H100.ERC40					100		

Portapinze ER con ghiera MINI Doppio Contatto

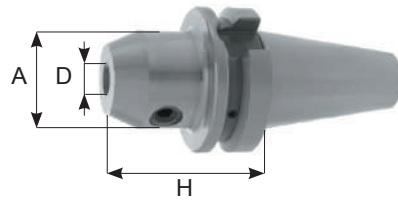
Collet chucks ER MINI nut Dual Drive



DCBT30 / 40 / 50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
DCBT30.H70.ERC11M	1	1 ÷ 7	12.000	AD	70	16	
DCBT30.H100.ERC11M					100		
DCBT30.H70.ERC16M		1 ÷ 10			70	22	
DCBT30.H100.ERC16M					100		
DCBT30.H70.ERC20M		1 ÷ 14			70	28	
DCBT30.H100.ERC20M					100		
DCBT40.H70.ERC11M		1 ÷ 7			70	16	
DCBT40.H100.ERC11M					100		
DCBT40.H70.ERC16M		1 ÷ 10			70	22	
DCBT40.H100.ERC16M					100		
DCBT40.H70.ERC20M		1 ÷ 14			70	28	
DCBT40.H100.ERC20M					100		
DCBT50.H100.ERC11M		1 ÷ 7			100	16	
DCBT50.H130.ERC11M					130		
DCBT50.H100.ERC16M		1 ÷ 10			100	22	
DCBT50.H100.ERC20M					100		

Portafrese Weldon DIN/1835-B Doppio Contatto
 End mill holders for DIN/1835-B shanks Dual Drive



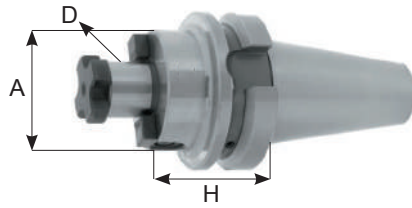
**DOPPIO
 CONTATTO**

DCBT30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
DCBT30.H50.WE6	1	6	AD+B	50	25	
DCBT30.H50.WE8		8		50	28	
DCBT30.H50.WE10		10		50	35	
DCBT30.H50.WE12		12		50	42	
DCBT30.H63.WE16		16		63	48	
DCBT30.H63.WE20		20		63	52	
DCBT30.H90.WE25		25		90	65	
DCBT40.H50.WE6		6		50	25	
DCBT40.H50.WE8		8		50	28	
DCBT40.H63.WE10		10		63	35	
DCBT40.H63.WE12		12		63	42	
DCBT40.H63.WE16		16		63	48	
DCBT40.H63.WE18		18		63	50	
DCBT40.H63.WE20		20		63	52	
DCBT40.H100.WE25		25		100	65	
DCBT40.H100.WE32		32		100	72	
DCBT50.H63.WE6		6		63	25	
DCBT50.H63.WE8		8		63	28	
DCBT50.H63.WE10		10		63	35	
DCBT50.H80.WE12		12		80	42	
DCBT50.H80.WE16		16		80	48	
DCBT50.H80.WE20		20		80	52	
DCBT50.H100.WE25		25		100	65	
DCBT50.H105.WE32		32		105	72	
DCBT50.H120.WE40		40		120	90	
DCBT50.H125.WE50		50		125	100	

Portafrese fisso Doppio Contatt

Shell end mill holders Dual Drive



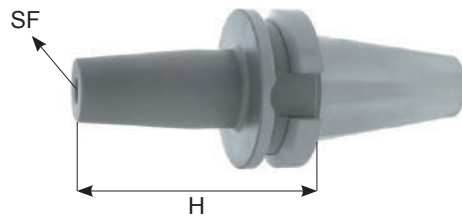
**DOPPIO
CONTATTO**

DCBT30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
DCBT30.H45.D16S	1	16	AD	45	48	
DCBT30.H45.D22S		22				
DCBT30.H45.D27S		27				
DCBT30.H45.D32S		32				
DCBT40.H45.D22S		22		45	48	
DCBT40.H60.D22S				60		
DCBT40.H45.D27S		27		45	60	
DCBT40.H60.D27S				60		
DCBT40.H60.D32S		32		60	78	
DCBT40.H60.D40S		40		60		
DCBT50.H50.D16S		16		50	38	
DCBT50.H55.D22S		22		55		48
DCBT50.H55.D27S		27				
DCBT50.H55.D32S		32				
DCBT50.H55.D40S		40				

Mandrini a calettamento termico (4,5°)

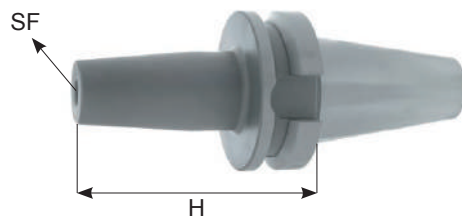
Shrink fit holders (4,5°)


**DOPPIO
 CONTATTO**
DCBT30 / 40
BILANCIATO G2,5 RPM25000
 BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
DCBT30.H80.SF6	5	SF6	AD	80	
DCBT30.H80.SF8		SF8		80	
DCBT30.H80.SF10		SF10		80	
DCBT30.H80.SF12		SF12		80	
DCBT30.H80.SF14		SF14		80	
DCBT30.H80.SF16		SF16		80	
DCBT30.H80.SF18		SF18		80	
DCBT30.H80.SF20		SF20		80	
DCBT40.H90.SF3	5	SF3	AD	90	
DCBT40.H120.SF3		SF3		120	
DCBT40.H160.SF3		SF3		160	
DCBT40.H90.SF4		SF4		90	
DCBT40.H120.SF4		SF4		120	
DCBT40.H160.SF4		SF4		160	
DCBT40.H90.SF5		SF5		90	
DCBT40.H120.SF5		SF5		120	
DCBT40.H160.SF5		SF5		160	
DCBT40.H90.SF6		SF6		90	
DCBT40.H120.SF6		SF6		120	
DCBT40.H160.SF6		SF6		160	
DCBT40.H90.SF8		SF8		90	
DCBT40.H120.SF8		SF8		120	
DCBT40.H160.SF8		SF8		160	
DCBT40.H90.SF10		SF10		90	
DCBT40.H120.SF10		SF10		120	
DCBT40.H160.SF10		SF10		160	
DCBT40.H90.SF12		SF12		90	
DCBT40.H120.SF12		SF12		120	
DCBT40.H160.SF12		SF12		160	
DCBT40.H90.SF14		SF14		90	
DCBT40.H120.SF14		SF14		120	
DCBT40.H160.SF14		SF14		160	
DCBT40.H90.SF16		SF16		90	
DCBT40.H120.SF16		SF16		120	
DCBT40.H160.SF16		SF16		160	
DCBT40.H90.SF18		SF18		90	
DCBT40.H120.SF18		SF18		120	
DCBT40.H160.SF18		SF18		160	
DCBT40.H90.SF20		SF20		90	
DCBT40.H120.SF20		SF20		120	
DCBT40.H160.SF20	SF20	160			
DCBT40.H100.SF25	SF25	100			
DCBT40.H120.SF25	SF25	120			
DCBT40.H160.SF25	SF25	160			
DCBT40.H100.SF32	SF32	100			

Mandrini a calettamento termico (4,5°)

Shrink fit holders (4,5°)



**DOPPIO
CONTATTO**

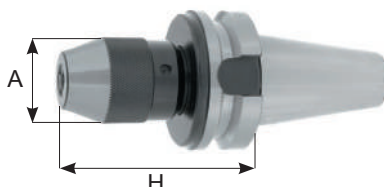
DCBT50

BILANCIATO G2,5 RPM25000
BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
DCBT50.H100.SF3	5	SF3	AD	100	
DCBT50.H120.SF3		SF3		120	
DCBT50.H160.SF3		SF3		160	
DCBT50.H100.SF4		SF4		100	
DCBT50.H120.SF4		SF4		120	
DCBT50.H160.SF4		SF4		160	
DCBT50.H100.SF5		SF5		100	
DCBT50.H120.SF5		SF5		120	
DCBT50.H160.SF5		SF5		160	
DCBT50.H100.SF6		SF6		100	
DCBT50.H120.SF6		SF6		120	
DCBT50.H160.SF6		SF6		160	
DCBT50.H100.SF8		SF8		100	
DCBT50.H120.SF8		SF8		120	
DCBT50.H160.SF8		SF8		160	
DCBT50.H100.SF10		SF10		100	
DCBT50.H120.SF10		SF10		120	
DCBT50.H160.SF10		SF10		160	
DCBT50.H100.SF12		SF12		100	
DCBT50.H120.SF12		SF12		120	
DCBT50.H160.SF12		SF12		160	
DCBT50.H100.SF14		SF14		100	
DCBT50.H120.SF14		SF14		120	
DCBT50.H160.SF14		SF14		160	
DCBT50.H100.SF16		SF16		100	
DCBT50.H120.SF16		SF16		120	
DCBT50.H160.SF16		SF16		160	
DCBT50.H100.SF18		SF18		100	
DCBT50.H120.SF18		SF18		120	
DCBT50.H160.SF18		SF18		160	
DCBT50.H100.SF20		SF20		100	
DCBT50.H120.SF20		SF20		120	
DCBT50.H160.SF20	SF20	160			
DCBT50.H110.SF25	SF25	110			
DCBT50.H120.SF25	SF25	120			
DCBT50.H160.SF25	SF25	160			
DCBT50.H110.SF32	SF32	110			
DCBT50.H120.SF32	SF32	120			
DCBT50.H160.SF32	SF32	160			

Mandrini porta punte con chiavi a gancio

Drill chuck with hook wrench


BT30 / 40 / 50

CODICE	FAM	CAP	H	A	EUR
BT30.H75.DCK8	1	1 ÷ 8	75	36	
BT30.H90.DCK13		1 ÷ 13	90	50	
BT40.H84.DCK8	1	1 ÷ 8	84	36	
BT40.H98.DCK13		1 ÷ 13	98	50	
BT40.H105.DCK16		1 ÷ 16	105	58	
BT50.H105.DCK13	1	1 ÷ 13	105	50	
BT50.H110.DCK16		1 ÷ 16	110	58	

Ricambi porta punte con chiavi a gancio

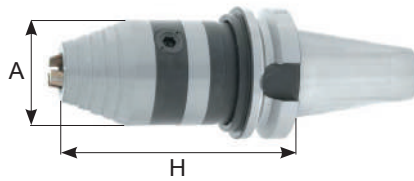
Replacement drill chuck with hook wrench heads


DCK

CODICE	FAM	CAP	EUR
DCK8.MT2S	1	1 ÷ 8	
DCK13.MT3S		1 ÷ 13	
DCK16.MT3S		1 ÷ 16	

Porta punta a forte serraggio con chiavi esagonali

Exagonal key look drill chucks titanium jaws



BT40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
BT40.H89.CP8	1	1 ÷ 8	AD	89	37.5	
BT40.H115.CP13		1 ÷ 13		115	50	
BT40.H120.CP16		1 ÷ 16		120	50	
BT50.H120.CP13		1 ÷ 13		120	50	
BT50.H125.CP16		1 ÷ 16		125	50	

Ricambi porta punta a forte serraggio

Replacement drill chuck heads

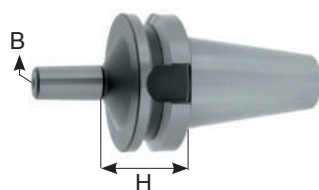


CP

CODICE	FAM	CAP	EUR
CP13.MT3	1	1 ÷ 13	
CP16.MT3		1 ÷ 16	

Mandrini porta punte

Drill chuck Arbors

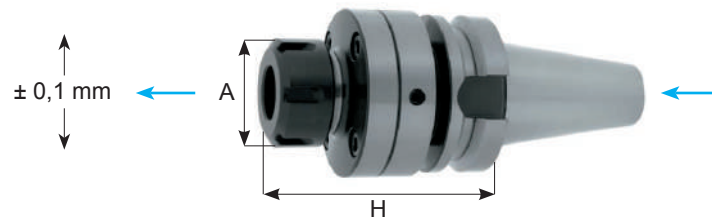


BT30 / 40 / 50

CODICE	FAM	DIN	B	H	EUR
BT30.H30.B12	1	DIN/238	B12	30	
BT30.H30.B16			B16	30	
BT40.H42.B12			B12	42	
BT40.H42.B16			B16	42	
BT40.H42.B18			B18	42	
BT50.H45.B16			B16	45	
BT50.H45.B18			B18	45	

Portapinze ER con regolazione radiale e passaggio del refrigerante

Radial adjustable collet chucks coolant thru



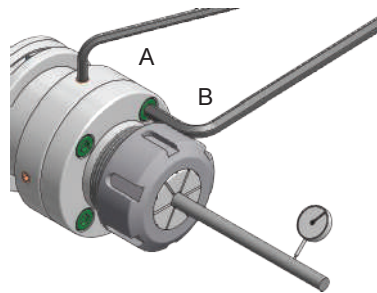
Regolazione 0.01 mm

BT40 / 50

CODICE	FAM	CAP	PINZA	FORMA	FLOT	H	A	EUR
BTB40.ERC16.L93RG	1	1 ÷ 10	ER16	AD	± 1 mm	93	28	
BTB40.ERC20.L95RG		1 ÷ 14	ER20			95	34	
BTB40.ERC25.L96RG		1 ÷ 20	ER25			96	42	
BTB40.ERC32.L97RG		2 ÷ 22	ER32			97	50	
BTB40.ERC40.L131RG		3 ÷ 30	ER40			131	63	
BTB50.ERC16.L103RG		1 ÷ 10	ER16			103	28	
BTB50.ERC20.L105RG		1 ÷ 14	ER20			105	34	
BTB50.ERC25.L106RG		1 ÷ 20	ER25			106	42	
BTB50.ERC32.L107RG		2 ÷ 22	ER32			107	50	
BTB50.ERC40.L141RG		3 ÷ 30	ER40			141	63	

Centratura regolabile 0,01mm

Adjustable runout 0,01mm

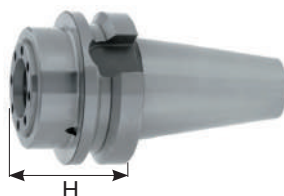


Allentare le viti B e regolare la centratura tramite le viti A.

Loosen screws B and use screws A for radial adjustment.

Portapinze extra corto

Shortly Collet chucks

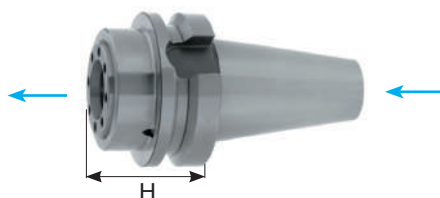


BT40 / 50

CODICE	FAM	CAP	RPM	FORMA	H	EUR
BT40.H29.ERC32A	1	2 ÷ 22	12.000	AD	29	

Portapinze extra corto con passaggio del refrigerante

Shortly Collet chucks coolant thru

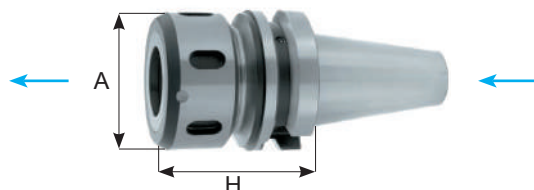


BTB40 / 50

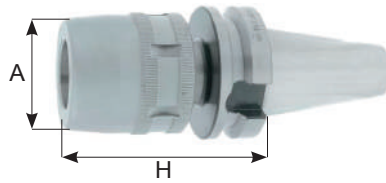
CODICE	FAM	CAP	RPM	FORMA	H	EUR
BTB40.H50.ERC32A	1	2 ÷ 22	12.000	AD	50	
BTB50.H40.ERC32A					40	

Portapinze per pinze EOC DIN/6388 B con passaggio del refrigerante

Collet chucks EOC DIN/6388 B coolant thru


BTB40 / 50

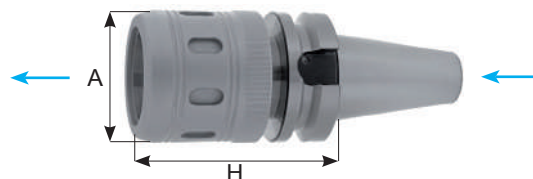
CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
BTB40.H70.EOC16	1	2 ÷ 16	12.000	AD+B	70	43	
BTB40.H100.EOC16					100	50	
BTB40.H70.EOC25		2 ÷ 25			70	60	
BTB40.H100.EOC25					100	60	
BTB40.H90.EOC32		3 ÷ 32			90	72	
BTB50.H70.EOC16		2 ÷ 16			70	43	
BTB50.H70.EOC25		2 ÷ 25			70	60	
BTB50.H80.EOC32		3 ÷ 32			80	72	

Portapinze a forte serraggio per pinze cilindriche
 Power milling chucks

BT30 / 40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
BT30.H75.MC20	5	3 ÷ 16	AD	75	54	
BT40.H80.MC20		3 ÷ 16		80	54	
BT40.H90.MC32		3 ÷ 25		90	72	
BT50.H105.MC20		3 ÷ 16		105	54	
BT50.H105.MC32		3 ÷ 25		105	72	

Kit mandrino portapinze a forte serraggio
 Kit ER tooholder

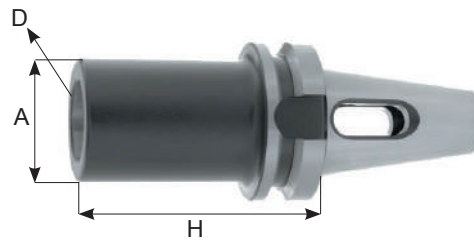
CODICE	FAM	CAPACITÀ	EUR
BX.BT40.MC20	1	Pinza 3SR20	
BX.BT50.MC20		6 . 8 . 10 . 12 . 16	
BX.BT40.MC32		Pinza 3SR32	
BX.BT50.MC32		6 . 8 . 10 . 12 . 16 . 20 . 25	


Portapinze a forte serraggio per pinze cilindriche con passaggio del refrigerante
 Sealed collets Power milling chuck

BTB40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
BTB40.H100.MCP20	1	3 ÷ 16	AD+B	100	56	
BTB40.H100.MCP32		4 ÷ 25		100	70	
BTB50.H105.MCP20		3 ÷ 16		105	56	
BTB50.H105.MCP32		4 ÷ 25		105	70	

Riduttori con morse DIN/228-B per Punta

Morse taper adapters DIN/228-B for Drills

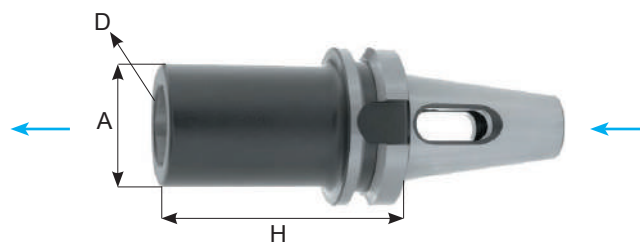


BT30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
BT30.H50.CM1P	1	CM1	AD	50	25	
BT30.H60.CM2P		CM2		60	32	
BT30.H79.CM3P		CM3		79	40	
BT40.H50.CM1P		CM1		50	25	
BT40.H50.CM2P		CM2		50	32	
BT40.H70.CM3P		CM3		70	40	
BT40.H95.CM4P		CM4		95	48	
BT50.H45.CM1P		CM1		45	25	
BT50.H120.CM1P		CM1		120	25	
BT50.H60.CM2P		CM2		60	32	
BT50.H135.CM2P		CM2		135	32	
BT50.H65.CM3P		CM3		65	40	
BT50.H155.CM3P		CM3		155	40	
BT50.H95.CM4P		CM4		95	48	
BT50.H180.CM4P		CM4		180	48	
BT50.H105.CM5P		CM5		105	63	
BT50.H215.CM5P		CM5		215	63	

Riduttori con morse DIN/228-B per Punta con passaggio refrigerante

Morse taper adapters DIN/228-B for Drills coolant thru

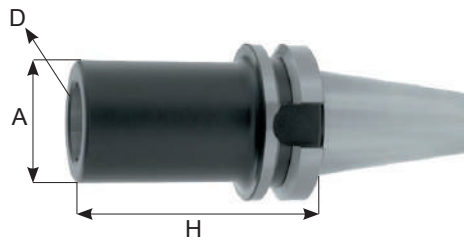


BTB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
BTB40.H50.CM2P	1	CM2	AD+B	50	32	
BTB40.H70.CM3P		CM3		70	40	
BTB40.H95.CM4P		CM4		95	48	
BTB50.H60.CM2P		CM2		60	32	
BTB50.H65.CM3P		CM3		65	40	
BTB50.H95.CM4P		CM4		95	48	
BTB50.H105.CM5P		CM5		105	63	

Riduttori cono morse DIN/228-A per Frese

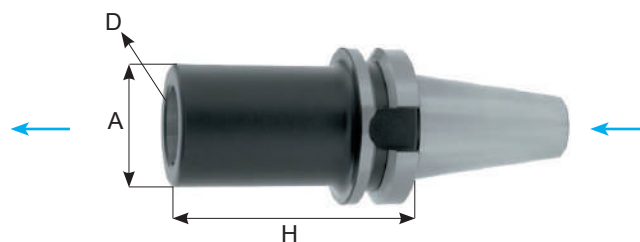
Reducing adaptors morse taper DIN/228-A for Threaded Mills


BT30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
BT30.H50.CM1FV	1	CM1	AD	50	25	
BT30.H60.CM2FV		CM2		60	32	
BT30.H80.CM3FV		CM3		80	40	
BT40.H50.CM1F		CM1		50	25	
BT40.H50.CM2F		CM2		50	32	
BT40.H70.CM3F		CM3		70	40	
BT40.H95.CM4F		CM4		95	48	
BT50.H45.CM1FV		CM1		45	25	
BT50.H60.CM2FV		CM2		60	32	
BT50.H65.CM3FV		CM3		65	40	
BT50.H90.CM4FV		CM4		90	48	

Riduttori cono morse DIN/228-A per Frese con passaggio refrigerante

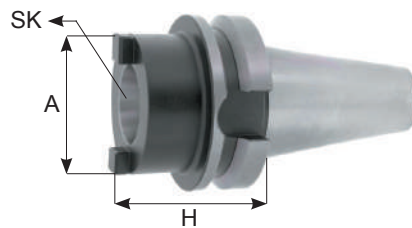
Reducing adaptors morse taper DIN/228-A for Threaded Mills coolant thru


BTB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
BTB40.H50.CM2FV	1	CM2	AD+B	50	32	
BTB40.H70.CM3FV		CM3		70	40	
BTB40.H95.CM4FV		CM4		95	48	
BTB50.H60.CM2FV		CM2		60	32	
BTB50.H65.CM3FV		CM3		65	40	
BTB50.H95.CM4FV		CM4		95	48	
BTB50.H120.CM5FV		CM5		120	63	

Riduzioni da BT a ISO DIN/2080 - DIN/69871 - BT

Reducing adaptors from BT to ISO DIN/2080 - DIN/698871 - BT

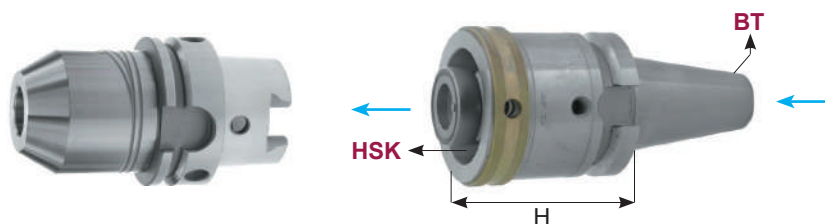


BT40 / 50

CODICE	FAM	ISO	FORMA	H	A	EUR
BT40.H60.SK30	1	SK30	AD	60	50	
BT40.H95.SK40		SK40		95	68	
BT50.H70.SK40		SK40		70	68	
BT50.H130.SK50		SK50		130	100	

Coni riduttori da BT a HSK - A/C con passaggio del refrigerante

Adapters from BT shank to HSK - A/C coolant thru



BTB30 / 40 / 50

CODICE	FAM	CONO	FORMA	RIDUTTORE	H	EUR
BTB30.H50.HSK32AC	8	BT30	AD+B	HSK32A/C	50	
BTB30.H60.HSK40AC				HSK40A/C	60	
BTB40.H70.HSK32AC		BT40		HSK32A/C	70	
BTB40.H80.HSK40AC				HSK40A/C	80	
BTB40.H70.HSK50AC				HSK50A/C	70	
BTB40.H75.HSK63AC		BT50		HSK63A/C	75	
BTB40.H100.HSK80AC				HSK80A/C	100	
BTB50.H70.HSK32AC				HSK32A/C	70	
BTB50.H70.HSK40AC				HSK40A/C	70	
BTB50.H65.HSK50AC				HSK50A/C	65	
BTB50.H75.HSK63AC				HSK63A/C	75	
BTB50.H100.HSK80AC		HSK80A/C		100		
BTB50.H110.HSK100AC		HSK100A/C		110		
BTB50.H140.HSK125AC		HSK125A/C		140		

Coni riduttori da BT a PSC - ECA ISO 26623-1
 Adapters from BT shank to PSC - ECA ISO 26623-1

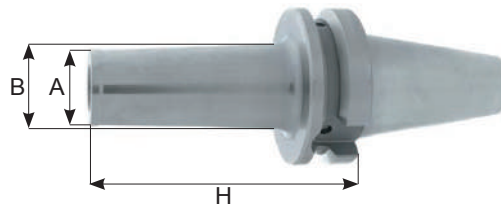


BT-C4 / C5 / C6 / C8 / C10

CODICE	FAM	CONO	RIDUTTORE	FORMA	H	A	EUR
BTB40.H30.C4	3	BT40	PSC-C4	AD+B	30	40	
BTB50.H40.C4		BT50			40		
BTB40.H50.C5		BT40	PSC-C5		50	50	
BTB50.H40.C5		BT50			40		
BTB40.H75.C6		BT40	PSC-C6		75	63	
BTB50.H50.C6		BT50			50		
BTB50.H70.C8		BT50	PSC-C8		70	80	
BTB50.H140.C10		BT50	PSC-C10		140	80	

Portafrese con filett

Tool holder for screwed milling cutters


BTB40 / 50

CODICE	FAM	M	FORMA	H	A	B	*Nm	EUR
BTB40.H63.M8CPY	1	M8	AD+B	63	13	15	25	
BTB40.H83.M8CPY				83		23		
BTB40.H103.M8CPY				103		23		
BTB40.H123.M8CPY				123		25		
BTB40.H63.M10CPY		M10		63	18	20	40	
BTB40.H83.M10CPY				83		23		
BTB40.H103.M10CPY				103		28		
BTB40.H123.M10CPY				123		32		
BTB40.H63.M12CPY		M12		63	21	24	60	
BTB40.H83.M12CPY				83		24		
BTB40.H103.M12CPY				103		31		
BTB40.H123.M12CPY				123		33		
BTB40.H63.M16CPY		M16		63	29	32	80	
BTB40.H83.M16CPY				83		34		
BTB40.H103.M16CPY				103		34		
BTB40.H123.M16CPY				123		36		
BTB40.H153.M16CPY				153		40		
BTB50.H104.M12CPY		M12		104	21	33	60	
BTB50.H154.M12CPY				154		40		
BTB50.H104.M16CPY		M16		104	29	36	80	
BTB50.H154.M16CPY	154		42.5					

* Nm = Forza di serraggio consigliata
 Recommended tightening torque

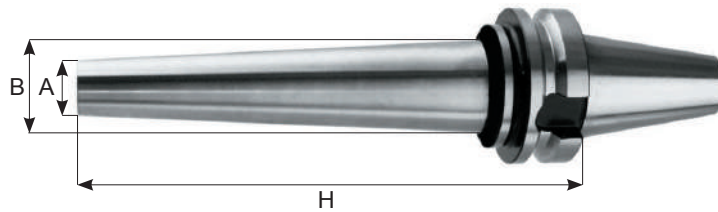
Momento di serraggio consigliato

Recommended tightening torque for screwed mills

FILETTO / THREAD	Nm
M8	25
M10	40
M12	60
M16	80

Portafrese con filetto antivibrazion

Antivibratory for frontal end mills support screwed shanks


BT40 / 50
ANTIVIBRAZIONE

CODICE	FAM	M	FORMA	H	A	B	EUR	
BT40.H200.M10AV	13	M10	AD	200	18	35		
BT40.H250.M10AV				250		40		
BT40.H300.M10AV				300		45		
BT40.H200.M12AV		M12		200	21	38		
BT40.H250.M12AV				250		43		
BT40.H300.M12AV				300		44		
BT40.H200.M16AV		M16		200	29	43		
BT40.H250.M16AV				250		44		
BT40.H300.M16AV				300		47		
BT50.H250.M12AV		M12		250	21	42		
BT50.H300.M12AV				300		47		
BT50.H400.M12AV				400		57		
BT50.H250.M16AV				M16	250	29	50	
BT50.H300.M16AV					300		55	
BT50.H400.M16AV					400		65	
BT50.H500.M16AV				500		76		

Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.

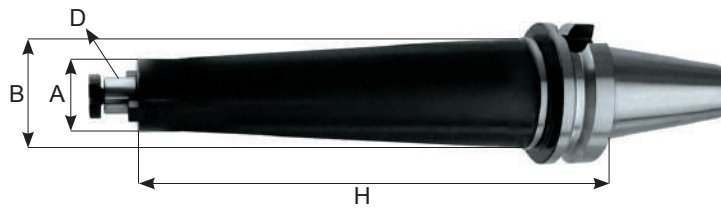
Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

Momento di serraggio consigliato

Recommended tightening torque for screwed mills

FILETTO / THREAD	Nm
M8	25
M10	40
M12	60
M16	80

Portafrese fisso antivibrazione con conicità DIN/13
Antivibratory shell mill adaptors DIN/138



BT40 / 50

ANTIVIBRAZIONE

CODICE	FAM	D	FORMA	H	A	B	EUR			
BT40.H150.D16AV	13	16	AD	150	38	50				
BT40.H200.D16AV				200						
BT40.H250.D16AV				250						
BT40.H300.D16AV		300								
BT40.H150.D22AV		22		150			44	50		
BT40.H200.D22AV				200						
BT40.H250.D22AV				250						
BT40.H300.D22AV		300								
BT50.H150.D16AV		13		16	150	38			80	
BT50.H200.D16AV					200					
BT50.H250.D16AV					250					
BT50.H300.D16AV				300						
BT50.H400.D16AV	400									
BT50.H200.D22AV	22		200	48	80					
BT50.H250.D22AV			250							
BT50.H300.D22AV			300							
BT50.H400.D22AV	400									
BT50.H500.D22AV	500									
BT50.H200.D27AV	27		200			60	60			
BT50.H250.D27AV			250							
BT50.H300.D27AV		300								
BT50.H400.D27AV		400								
BT50.H500.D27AV		500								

Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.

Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

Portafrese fisso antivibrazione DIN/13

Antivibratory shell mill adaptors DIN/138



BT40 / 50

ANTIVIBRAZIONE

CODICE	FAM	D	H	A	EUR			
BT40.H150.D16AV-38	13	16	150	38				
BT40.H200.D16AV-38			200					
BT40.H250.D16AV-38			250					
BT40.H300.D16AV-38			300					
BT40.H150.D22AV-48			22		150	48		
BT40.H200.D22AV-48					200			
BT40.H250.D22AV-48		250						
BT40.H300.D22AV-48		300						
BT40.H150.D27AV-54		27		150	54			
BT40.H200.D27AV-54				200				
BT40.H250.D27AV-54			250					
BT40.H300.D27AV-54			300					
BT50.H150.D16AV-38			13	16		150	38	
BT50.H200.D16AV-38						200		
BT50.H250.D16AV-38		250						
BT50.H300.D16AV-38		300						
BT50.H400.D16AV-38				400				
BT50.H200.D22AV-48		22		200	48			
BT50.H250.D22AV-48				250				
BT50.H300.D22AV-48				300				
BT50.H400.D22AV-48				400				
BT50.H500.D22AV-48				500				
BT50.H200.D22AV-60				22		200	60	
BT50.H250.D22AV-60		250						
BT50.H300.D22AV-60		300						
BT50.H400.D22AV-60		400						
BT50.H500.D22AV-60		500						

Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.

Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

Portafrese fisso antivibrazione DIN/13

Antivibratory shell mill adaptors DIN/138



BT50

ANTIVIBRAZIONE

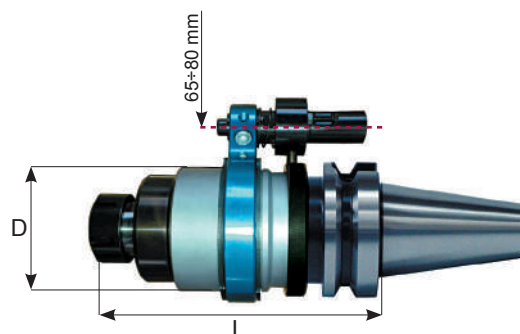
CODICE	FAM	D	H	A	EUR	
BT50.H200.D27AV-60	13	27	200	60		
BT50.H250.D27AV-60			250			
BT50.H300.D27AV-60			300			
BT50.H400.D27AV-60			400			
BT50.H500.D27AV-60			500			
BT50.H200.D32AV-76		32		200	76	
BT50.H250.D32AV-76				250		
BT50.H300.D32AV-76				300		
BT50.H400.D32AV-76				400		
BT50.H500.D32AV-76				500		

Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.

Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

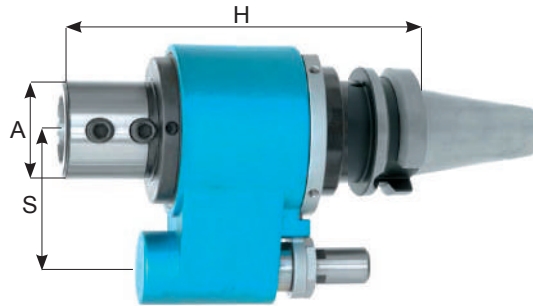
Distributori rotanti del refrigeratore porta pinza

Er oil hole holders collet chucks


BT40 / 50

CODICE	FAM	CONO	TIPO	CAP	D	L	BAR	RPM	EUR
BT40-ER20-L120	1	BT40	ER20	1 ÷ 14	67	160	7	3000	
BT40-ER25-L125			ER25	1 ÷ 20	75			2000	
BT40-ER32-L153			ER32	2 ÷ 22	90			1000	
BT50-ER20-L120		BT50	ER20	1 ÷ 14	67			2500	
BT50-ER25-L125			ER25	1 ÷ 20	75			2000	
BT50-ER32-L153			ER32	2 ÷ 22	90			1000	

Distributore rotante di refrigerazione attacchi cilindrici
Rotary coolant feeder



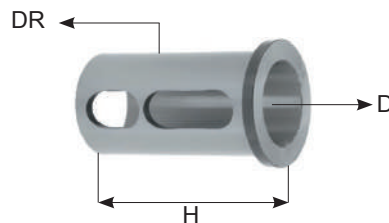
BT40 / 50

CODICE	FAM	S	FORMA	H	A	EUR
BT40-DR32	1	65	AD	165	49.5	
BT50-DR40		80		170	56	

Altre misure su richiesta

CARATTERISTICHE	S
Giro Max / Max rpm	3.500
Precisione del refrigerante	Max 20 bar
Coolant Pressure	Min 2 bar

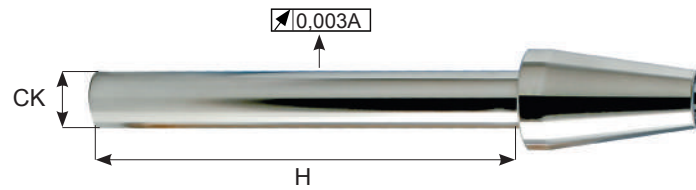
Pinze per distributore rotante di refrigerazione
Collet for Rotary coolant feeder



CODICE	FAM	D	DR	H	EUR
E2-1.32-16	1	16	32	70	
E2-1.32-20		20			
E2-1.32-25		25			
E2-1.40-16	1	16	40	80	
E2-1.40-20		20			
E2-1.40-25		25			
E2-1.40-32		32			

Barre di controllo con certificato MAS/403BT

Test arbor with accuracy certificate MAS/403BT

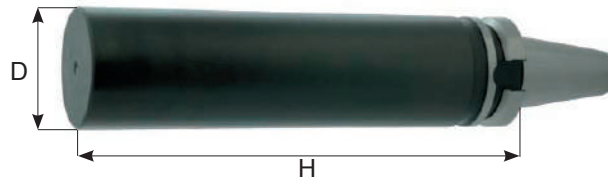


BT30 / 40 / 50

CODICE	FAM	CK	FORMA	H	EUR
BT30.H237.CK32	1	32	AD	237	
BT40.H335.CK40		40		335	
BT50.H340.CK50		50		340	

Barre tenere MAS/403BT

Machinable blank Arbors MAS/BT

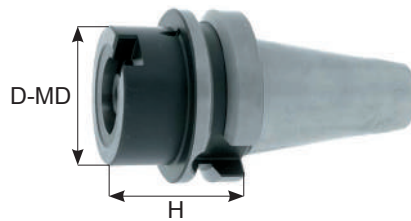


BT30 / 40 / 50

CODICE	FAM	D	FORMA	H	EUR
BT30.H160.D40BL	8	40	AD	160	
BT40.H250.D40BL	1	40		250	
BT40.H250.D63BL		63		250	
BT50.H315.D97BL		97		315	

Mandrini modulari sistema Varilock

Modular toll holders Varilock system



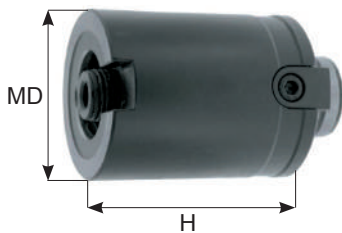
BTB40 / 50

CODICE	FAM	D-MD	FORMA	H	EUR
BTB40.H27.D50MD	1	50	AD+B	27	
BTB40.H50.D50MD		50		50	
BTB40.H27.D63MD		63		27	
BTB40.H50.D63MD		63		50	
BTB50.H50.D50MD		50		50	
BTB50.H50.D63MD		63		50	
BTB50.H50.D80MD		80		50	

Adattatori modulari lunghi sistema Varilock

Modular extension adapters

MD50 / 63 / 80

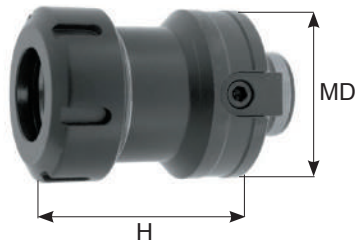


CODICE	FAM	MD	H	EUR
MD50.H60.MD50	1	50	60	
MD50.H80.MD50			80	
MD50.H100.MD50			100	
MD63.H80.MD63		63	80	
MD63.H120.MD63			120	
MD80.H80.MD80			80	80
MD80.H100.MD80		100		
MD80.H120.MD80		120		
MD80.H140.MD80		140		
MD80.H160.MD80		160		

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Portapinze modulari sistema Varilock

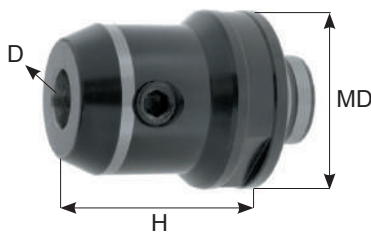
Modular collet chuck adapters


MD50 / 63 / 80

CODICE	FAM	CAP	MD	H	EUR
MD50.H63.ERC20	1	1 ÷ 14	50	63	
MD50.H63.ERC25		1 ÷ 20		63	
MD50.H65.ERC32		2 ÷ 22		65	
MD63.H77.ERC32		2 ÷ 22	63	77	
MD63.H86.ERC40		3 ÷ 30		86	
MD80.H90.ERC40		12	3 ÷ 30	80	90

Portafrese Weldon modulari sistema Varilock

Modular end mill adapters

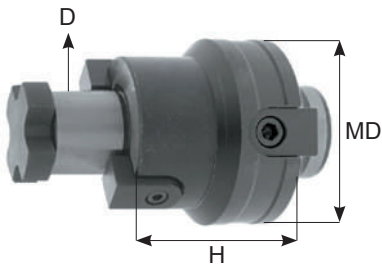
MD50 / 63 / 80


CODICE	FAM	MD	H	D	EUR		
MD50.H50.WE6	1	50	50	6			
MD50.H50.WE8				8			
MD50.H50.WE10				10			
MD50.H60.WE12				12			
MD50.H60.WE14			14	60			
MD50.H60.WE16			16				
MD50.H60.WE18			18				
MD50.H62.WE20			20				
MD50.H80.WE25		25	63	70	10		
MD63.H70.WE10		12					
MD63.H70.WE14		14					
MD63.H70.WE16		16					
MD63.H70.WE18		18					
MD63.H70.WE20		20		80	90	25	
MD63.H80.WE25		25					
MD63.H80.WE32		32					
MD63.H90.WE40		40					
MD80.H70.WE16		80	70	70	16		
MD80.H70.WE20					20		
MD80.H80.WE25					25		
MD80.H80.WE32	32		80	80			
MD80.H80.WE40	40						
MD80.H90.WE40	40						

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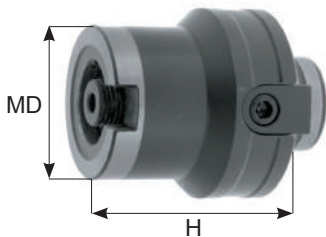
Portafrese modulari sistema Varilock
Shell end mill holders Modular Adapters

MD50 / 63 / 80



CODICE	FAM	MD	H	D	EUR	
MD50.H30.D16S	1	50	30	16		
MD50.H20.D22S			20	22		
MD50.H20.D27S			20	27		
MD50.H25.D32S			25	32		
MD63.H30.D22S		63	30		22	
MD63.H30.D27S					27	
MD63.H30.D32S					32	
MD63.H30.D40S					40	
MD80.H30.D27S		80	30		27	
MD80.H30.D32S					32	
MD80.H30.D40S					40	

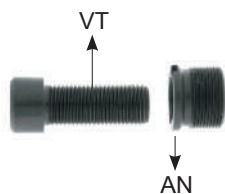
Riduttori modulari sistema Varilock
Modular Adapters



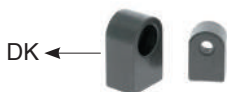
MD63 / 80

CODICE	FAM	MD	H	EUR
MD63.H60.MD50	1	50	60	
MD80.H80.MD63		63	80	

Ricambi
Spare part



CODICE	FAM	EUR
AN-MD 50	1	
AN-MD 63-80		
VT-MD 50		
VT-MD 63-80		



CODICE	FAM	MD	EUR
DK-MD50	1	12x10x18.2	
DK-MD63-80		16x13x24	

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**MANDRINI
ATTACCO DIN/69871
E DOPPIO CONTATTO
ATTACCO ANSI B 5.50**

TOOLHOLDERS DIN/69871
AND DOUBLE CONTACT

7



MANDRINI ATTACCO DIN/69871 E DOPPIO CONTATTO - ATTACCO ANSI B 5.50

TOOLHOLDERS DIN/69871 - AND DOUBLE CONTACT



MANDRINI A CAMBIO RAPIDO
QUICK CHANGE TAPPING CHUCK

7A



MANDRINI A CAMBIO RAPIDO PASSAGGIO DEL REFRIGERANTE
QUICK CHANGE TAPPING CHUCK WITH COOLANT THRU



SYNCRO PORTAPINZE
SYNCRO COLLET CHUCK

7B



SYNCRO CAMBIO RAPIDO
SYNCRO QUICK CHANGE



MANDRINI RIGIDI
RIGID TAPPING CHUCK

7C



MANDRINI RIGIDI PASSAGGIO DEL REFRIGERANTE
RIGID TAP HOLDER WITH COOLANT THRU



MANDRINI IDRAULICI
HYDRAULIC CHUCKS

7D



MANDRINI PORTAPINZE "TG"
COLLET CHUCKS "TG"

7E



MANDRINI PORTAPINZE
COLLET CHUCK

7F



MANDRINI PORTAFRESE WELDON
END MILL HOLDERS FOR WELDON

7G



MANDRINI PORTAFRESE COMBINATO
COMBI SHELL END MILL HOLDERS

7H



MANDRINO PORTAFRESE FISSO
SHELL END MILL HOLDERS

7I



MANDRINI A CALETTAMENTO
SHRINK FIT HOLDERS

7J



MANDRINI PORTAPINZE DOPPIO CONTATTO
COLLET CHUCKS DUAL DRIVE

**DOPPIO
CONTATTO**

7K

MANDRINI ATTACCO DIN/69871 E DOPPIO CONTATTO - ATTACCO ANSI B 5.50

TOOLHOLDERS DIN/69871 - AND DOUBLE CONTACT
















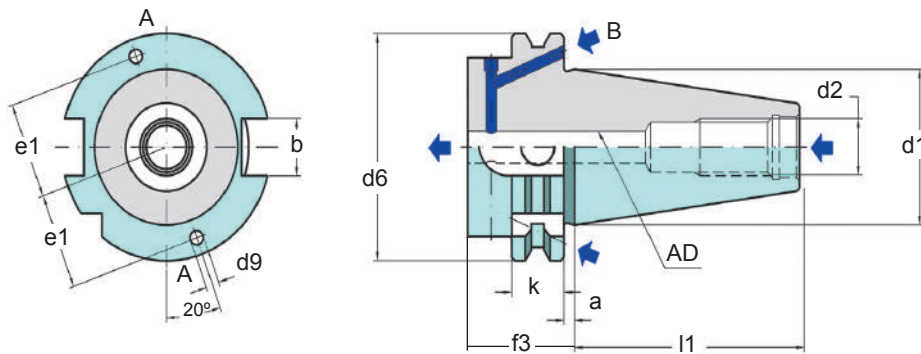
	MANDRINI PORTAFRESE WELDON DOPPIO CONTATTO END MILL HOLDERS FOR WELDON DUAL DRIVE	DOPPIO CONTATTO	
	MANDRINO PORTAFRESE FISSO SHELL END MILL HOLDERS	DOPPIO CONTATTO	7L
	MANDRINI A DOPPIO CONTATTO A CALETTAMENTO DOUBLE CONTACT SHRINK FIT TOOLHOLDER	DOPPIO CONTATTO	
	MANDRINI PORTAPUNTE DRILL CHUCKS		7M
	MANDRINI PORTA ALESATORI FLOTTANTI FLOATING REAMER HOLDERS		7N
	MANDRINI PORTA PINZE EOC COLLET CHUCKS EOC		7O
	MANDRINI FORTE SERRAGGIO POWER MILLING CHUCKS		7P
	MANDRINI RIDUZIONI CONO MORSE MORSE TAPPER ADAPTERS		7Q
	MANDRINI RIDUZIONI HSK / PCS REDUCING ADAPTERS TO HSK / PCS		7R
	MANDRINI PORTAFRESE CON FILETTO / ANTIVIBRAZIONE TOOLHOLDERS FOR SCREWED MILLING CUTTERS		7S
	MANDRINI PORTAFRESE FISSO ANTIVIBRAZIONE ANTIVIBRATORY SHELL MILL ADAPTORS		7T
	MANDRINI A DISTRIBUZIONE DEL REFRIGERANTE COOLANT FEEDER CHUCKS		7U
	BARRE DI CONTROLLO / BARRE TENERE TEST ARBOR / BLANK ARBORS		7V
	MANDRINI VARILOCK TOOLHOLDERS VARILOCK		7V
	ADATTATORI VARILOCK VARILOCK ADAPTERS		

Tabella tecnica

Technical table



CONO	FORMA	d1	d2	d6	l1	a	k	f3	b	d9	e1
TC30	AD	31.75	M12	50	47.8	3.2	15.9	35	16.1	-	-
TCB40	AD+B	44.45	M16	63.55	68.40	3.2	15.9	35	16.1	4	27
TCB45	AD+B	57.15	M20	82.55	82.7	3.2	15.9	35	19.3	5	35
TCB50	AD+B	69.85	M24	97.50	101.75	3.2	15.9	35	25.7	6	42

Tabella tecnica Passaggio del refrigerante

Technical table coolant through

	SENZA PASSAGGIO DEL REFRIGERANTE WITHOUT COOLANT THROUGH	A
	PASSAGGIO DEL REFRIGERANTE CENTRALE COOLANT FROM CENTRE	AD
	PASSAGGIO DEL REFRIGERANTE DALLA FLANGIA COOLANT FROM FLANGE	B
	PASSAGGIO DEL REFRIGERANTE CENTRALE O DALLA FLANGIA COOLANT FROM CENTRE OR FLANGE	AD+B

I mandrini in forma AD+B possono essere usati per il passaggio del refrigerante dalla flangia e il passaggio del refrigerante dal canale centrale.

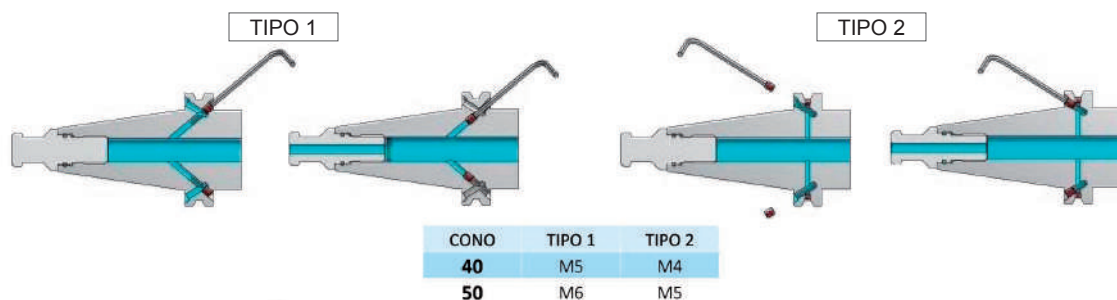
Nel sistema "TIPO 1" la regolazione avviene chiudendo il grano.

Nel sistema "TIPO 2" la regolazione avviene rimuovendo il grano.

Toolholders AD+B can be used with coolant through "V" flange and with coolant through centre.

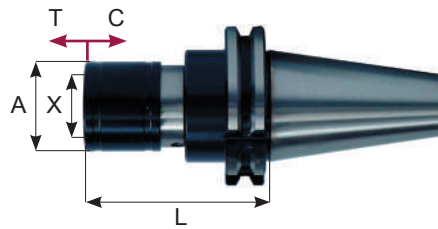
"TIPO 1" system works closing the screw.

"TIPO 2" system works removing the screw.



Mandrini con compressione e trazione

Tension and compression tap holders

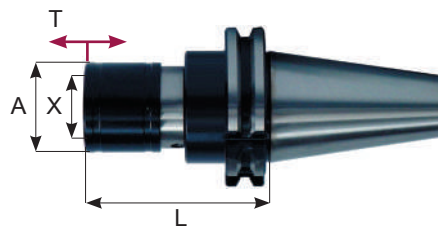


TC30 / 40 / 50

CODICE	CAP	X	A	L	T	C	EUR
TC40-THTC0-L94	M1 ÷ M10	13	26	94	6.5	6.5	
TC50-THTC0-L104				104			
TC30-THTC1-L58	M3 ÷ M12	19	36	58	7.5	7.5	
TC40-THTC1-L59				59			
TC50-THTC1-L59				59			
TC40-THTC2-L98	M8 ÷ M20	31	53	98	12.5	12.5	
TC50-THTC2-L83				83			
TC40-THTC3-L149	M14 ÷ M33	48	78	149	20	20	
TC50-THTC3-L138				138			
TC40-THTC4-L185	M22 ÷ M48	60	96	185	22.5	22.5	
TC50-THTC4-L175				175			

Mandrini con solo trazione

Tension and compression tap holders



TC30 / 40 / 50

CODICE	CAP	X	A	L	T	C	EUR
TC40-THT0-L94	M1 ÷ M10	13	26	94	6.5	0	
TC50-THT0-L104				104			
TC30-THT1-L58	M3 ÷ M12	19	36	58	7.5	0	
TC40-THT1-L59				59			
TC50-THT1-L59				59			
TC40-THT2-L98	M8 ÷ M20	31	53	98	12.5	0	
TC50-THT2-L83				83			
TC40-THT3-L149	M14 ÷ M33	48	78	149	20	0	
TC50-THT3-L138				138			
TC40-THT4-L185	M22 ÷ M48	60	96	185	22.5	0	
TC50-THT4-L175				175			

Mandrini con compressione e trazione con passaggio del refrigerante

Tension and compression tap holders with coolant thru

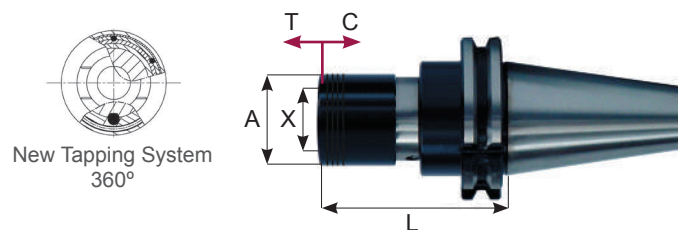


TC30 / 40 / 50

CODICE	CAP	X	A	L	T	C	EUR
TC40-THTC1-L101C	M3 ÷ M12	19	40	101	7	3	
TC50-THTC1-L101C				101			
TC40-THTC2-L137C	M8 ÷ M20	31	56	137	10	5	
TC50-THTC2-L137C				137			
TC40-THTC3-L242C	M14 ÷ M33	48	75	242	18	13	
TC50-THTC3-L202C				202			

Mandrini con compressione e trazione DIN/69871 - 360°

Tension and compression tap holders DIN/69871 - 360°

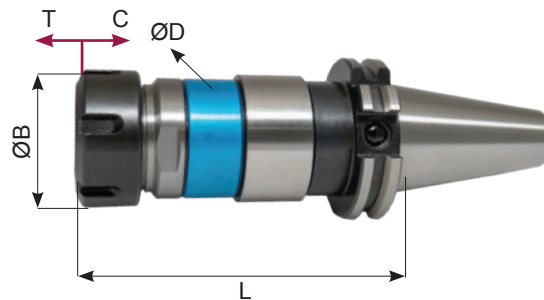


TC30 / 40 / 50

CODICE	CAP	X	A	L	T	C	EUR
TC30-GCTC1-L65	M3 ÷ M12	19	39	65	7.5	7.5	
TC40-GCTC1-L80				80			
TC50-GCTC1-L80				80			
TC30-GCT1-L57.5	M8 ÷ M20	31	60	57.5	12.5	0	
TC40-GCT1-L72.5				72.5			
TC50-GCT1-L72.5				72.5			
TC30-GCTC2-L103	M14 ÷ M33	48	86	103	17.5	17.5	
TC40-GCTC2-L103				103			
TC50-GCTC2-L103				103			
TC30-GCT2-L93	M3 ÷ M12	19	39	93	16.5	0	
TC40-GCT2-L93				93			
TC50-GCT2-L93				93			
TC40-GCTC3-L134	M8 ÷ M20	31	60	134	35	0	
TC50-GCTC3-L134				134			
TC40-GCT3-L116.5				116.5			
TC50-GCT3-L116.5	116.5						

SYER - Mandrino a micro-compensazione assiale in compressione e trazione

SYER - Quick-change tapping chuck with micro-compensation in compression and tension

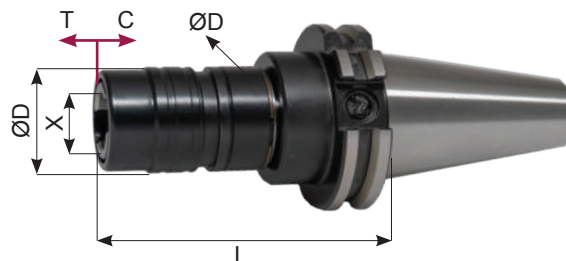


SYNCRO

CODICE	CONO	T	C	CAP	GHIERA	ØD	ØB	L	EUR
TC30-SYER11-L62	TC30	0.5	0.5	1 ÷ 7	ER11	35	19	62	
TC30-SYER16M-L67				1 ÷ 10	ER16M	35	22	67	
TC30-SYER16-L67				1 ÷ 10	ER16	35	32	67	
TC30-SYER20-L70				1 ÷ 14	ER20	35	35	70	
TC30-SYER25-L75				1 ÷ 20	ER25	35	42	75	
TC30-SYER32-L83	2 ÷ 22			ER32	45	50	73		
TC40-SYER16M-L67	TC40			1 ÷ 10	ER16M	35	22	67	
TC40-SYER16-L67				1 ÷ 10	ER16	35	32	67	
TC40-SYER20-L70				1 ÷ 14	ER20	35	35	70	
TC40-SYER25-L75				1 ÷ 20	ER25	35	42	75	
TC40-SYER32-L83				2 ÷ 22	ER32	45	50	83	
TC40-SYER40-L120	3 ÷ 30			ER40	62	63	120		
TC50-SYER16M-L67	TC50			1 ÷ 10	ER16M	35	22	67	
TC50-SYER16-L67				1 ÷ 10	ER16	35	32	67	
TC50-SYER20-L70				1 ÷ 14	ER20	35	35	70	
TC50-SYER25-L75		1 ÷ 20	ER25	35	42	75			
TC50-SYER32-L83		2 ÷ 22	ER32	45	52	86			
TC50-SYER40-L105		3 ÷ 30	ER40	62	63	105			

SY - Mandrino a micro-compensazione assiale in compressione e trazione

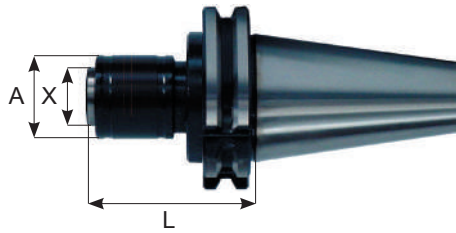
SY - Quick-change tapping chuck with micro-compensation in compression and tension



SYNCRO

CODICE	CONO	T	C	CAP	X	ØD	ØB	L	EUR
TC30-SY1-L79	TC30	0.5	0.5	M3 ÷ M12	19	34	32	79	
TC40-SY1-L79	TC40			M3 ÷ M12	19	34	32	79	
TC50-SY1-L79	TC50			M3 ÷ M12	19	34	32	79	
TC30-SY2-L95	TC30			M8 ÷ M20	31	45	50	95	
TC40-SY2-L95	TC40			M8 ÷ M20	31	45	50	95	
TC50-SY2-L95	TC50			M8 ÷ M20	31	45	50	95	

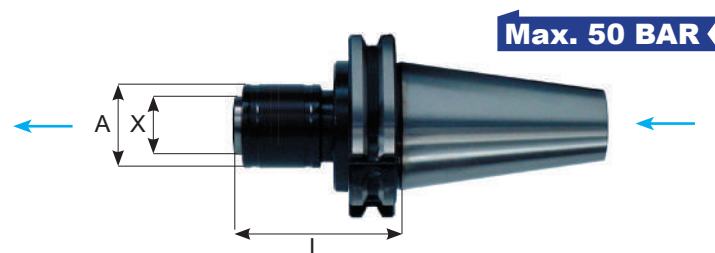
Mandrini rigidi
Rigid tap holders



TC40 / 50

CODICE	CAP	X	A	L	EUR
TC40-TLR1-L56	M3 ÷ M12	19	32	56	
TC50-TLR1-L56				56	
TC40-TLR2-L77	M8 ÷ M20	31	50	77	
TC50-TLR2-L77				77	
TC40-TLR3-L119	M14 ÷ M33	48	72	119	
TC50-TLR3-L103				103	
TC50-TLR4-L141	M22 ÷ M48	60	95	141	

Mandrini rigidi con passaggio del refrigerante
Rigid tap holders with through coolant



TC40 / 50

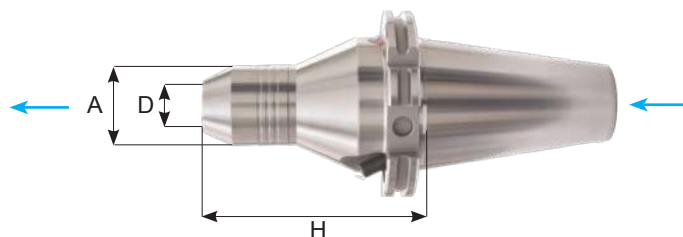
CODICE	CAP	X	A	L	EUR
TC40-TLR1-L73C	M3 ÷ M12	19	32	73	
TC50-TLR1-L73C				73	
TC40-TLR2-L89C	M8 ÷ M20	31	50	89	
TC50-TLR2-L89C				89	
TC40-TLR3-L128C	M14 ÷ M33	48	72	128	
TC50-TLR3-L118C				118	

Mandrini idraulici con passaggio del refrigerante
 Hydraulic chucks with coolant thru

TCB40 / 50

CODICE	FAM	B	FORMA	H	D	EUR		
TCB40.H80.5.HD.6	5	6	AD+B	80.5	26			
TCB40.H110.HD6		6		110	26			
TCB40.H80.5.HD.8		8		80.5	28			
TCB40.H110.5.HD.8		8		110	28			
TCB40.H80.5.HD.10		10		80.5	30			
TCB40.H110.HD.10		10		110	30			
TCB40.H80.5.HD.12		12		80.5	32			
TCB40.H110.HD.12		12		110	32			
TCB40.H80.5.HD.14		14		80.5	34			
TCB40.H110.HD.14		14		110	34			
TCB40.H80.5.HD.16		16		80.5	38			
TCB40.H110.HD.16		16		110	38			
TCB40.H80.5.HD.18		18		80.5	40			
TCB40.H110.HD.18		18		110	40			
TCB40.H80.5.HD.20		20		80.5	42			
TCB40.H110.HD.20		20		110	42			
TCB40.H95.HD.25		25		95	55			
TCB40.H110.HD.20		25		110	55			
TCB40.H95.HD.32		32		95	63			
TCB40.H110.HD.32		32		110	63			
TCB50.H80.5.HD.6				6		80.5	26	
TCB50.H110.HD6				6		110	26	
TCB50.H80.5.HD.8				8		80.5	28	
TCB50.H110.HD.8				8		110	28	
TCB50.H80.5.HD.10				10		80.5	30	
TCB50.H110.HD.10				10		110	30	
TCB50.H80.5.HD.12				12		80.5	32	
TCB50.H110.HD.12				12		110	32	
TCB50.H80.5.HD.14				14		80.5	34	
TCB50.H110.HD.14				14		110	34	
TCB50.H80.5.HD.16				16		80.5	38	
TCB50.H110.HD.16				16		110	38	
TCB50.H80.5.HD.18		18		80.5	40			
TCB50.H110.HD.18		18		110	40			
TCB50.H80.5.HD.20		20		80.5	42			
TCB50.H110.HD.20		20		110	42			
TCB50.H100.HD.25		25		100	55			
TCB50.H110.HD.25		25		110	55			
TCB50.H100.HD.32		32		100	63			
TCB50.H110.HD.32		32		110	63			

Mandrini idraulici con passaggio del refrigerante
 Hydraulic chucks with coolant thru



TCB50 TOOL&CUTTER

CODICE	FAM	D	FORMA	H	A	EUR
TCB50.H110.HD.6TC	5	6	AD+B	110	32	
TCB50.H110.HD.8TC		8			33	
TCB50.H110.HD.10TC		10			35	
TCB50.H110.HD.12TC		12			36	
TCB50.H110.HD.14TC		14			38	
TCB50.H110.HD.16TC		16			39	
TCB50.H110.HD.18TC		18			41	
TCB50.H110.HD.20TC		20			42	
TCB50.H110.HD.25TC		25			47	
TCB50.H110.HD.32TC		32			54	

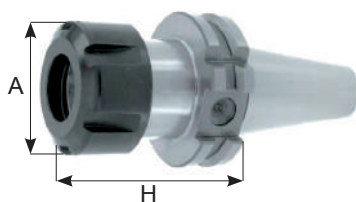
Mandrini idraulici CAT
 Hydraulic chucks CAT

CAT40 / 50

CODICE	FAM	B	FORMA	H	D	EUR
CAT40.H101.6.HD.6	5	6	CAT	101.6	26	
CAT40.H101.6.HD.8		8			28	
CAT40.H101.6.HD.10		10			30	
CAT40.H101.6.HD.12		12			32	
CAT40.H101.6.HD.14		14			34	
CAT40.H101.6.HD.16		16			38	
CAT40.H101.6.HD.18		18			40	
CAT40.H101.6.HD.20		20			42	
CAT40.H101.6.HD.25		25			55	
CAT40.H101.6.HD.32		32			63	
CAT50.H101.6.HD.6		6			26	
CAT50.H101.6.HD.8		8			28	
CAT50.H101.6.HD.10		10			30	
CAT50.H101.6.HD.12		12			32	
CAT50.H101.6.HD.14		14			34	
CAT50.H101.6.HD.16		16			38	
CAT50.H101.6.HD.18		18			40	
CAT50.H101.6.HD.20		20			42	
CAT50.H101.6.HD.25		25			57	
CAT50.H101.6.HD.32		32			64	

Mandrini portapinza TG

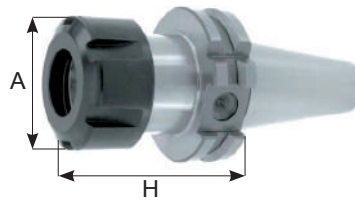
Collet chucks TG


CAT40

CODICE	FAM	FORMA	H	A	EUR
TC40.TG75.L70	4	AD+B	70	50	
TC40.TG100.L80			80	60	
TC40.TG100.L100			100	60	
TC40.TG100.L150			150	60	
TC40.TG150.L125			125	85	
TC40B.TG100.L80			80	60	
TC40B.TG100.L150			150	60	
TC50.TG100.L85			60	85	
TC50.TG100.L150			60	150	
TC50.TG100.L200			60	200	
TC50.TG150.L90			85	90	
TC50.TG150.L150			85	150	
TCB50.TG100.L85			60	85	
TCB50.TG100.L150			60	150	

Portapinzine ER con ghiera STANDARD

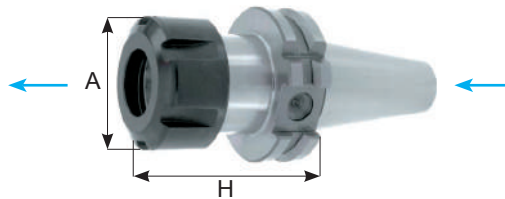
Collet chucks ER STANDARD nut


TC30

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR	
TC30.H63.ERC16	1	1 ÷ 10	12.000	AD+B	63	28		
TC30.H100.ERC16					100			
TC30.H63.ERC20					63		34	
TC30.H63.ERC25					63		42	
TC30.H100.ERC25		100						
TC30.H63.ERC32		63			50			
TC30.H100.ERC32		100						

Portapinzine ER con ghiera STANDARD con passaggio del refrigerante

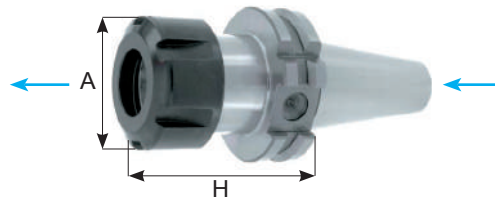
Collet chucks ER STANDARD nut with coolant thru


TCB40

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR			
TCB40.H70.ERC16	1	1 ÷ 10	12.000	AD+B	70	28				
TCB40.H100.ERC16					100					
TCB40.H130.ERC16					130					
TCB40.H160.ERC16					160					
TCB40.H200.ERC16					200					
TCB40.H70.ERC20					70		34			
TCB40.H100.ERC20					100					
TCB40.H130.ERC20					130					
TCB40.H160.ERC20					160					
TCB40.H70.ERC25					70	42				
TCB40.H100.ERC25					100					
TCB40.H130.ERC25					130					
TCB40.H160.ERC25		160								
TCB40.H200.ERC25		200								
TCB40.H70.ERC32		70			50					
TCB40.H100.ERC32		100								
TCB40.H130.ERC32		130								
TCB40.H160.ERC32		160								
TCB40.H200.ERC32		200								
TCB40.H70.ERC40		70				63				
TCB40.H100.ERC40		100								
TCB40.H130.ERC40		130								
TCB40.H160.ERC40		160								
TCB40.H200.ERC40		200								
TCB40.H85.ERC50					6 ÷ 34			AD	85	78

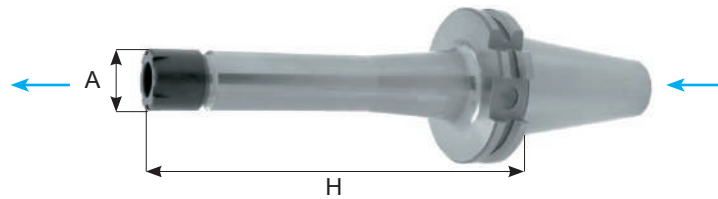
Portapinze ER con ghiera STANDARD con passaggio del refrigerante

Collet chucks ER STANDARD nut with coolant thru


TCB50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
TCB50.H100.ERC16	1	1 ÷ 10	12.000	AD+B	100	28	
TCB50.H160.ERC16					160		
TCB50.H200.ERC16		200					
TCB50.H100.ERC20		1 ÷ 14			100	34	
TCB50.H160.ERC20					160		
TCB50.H80.ERC25		1 ÷ 20			80	42	
TCB50.H100.ERC25					100		
TCB50.H130.ERC25					130		
TCB50.H160.ERC25					160		
TCB50.H200.ERC25		200					
TCB50.H80.ERC32		2 ÷ 22			80	50	
TCB50.H100.ERC32					100		
TCB50.H130.ERC32					130		
TCB50.H160.ERC32					160		
TCB50.H200.ERC32					200		
TCB50.H250.ERC32		250					
TCB50.H80.ERC40		3 ÷ 30			80	63	
TCB50.H100.ERC40					100		
TCB50.H130.ERC40					130		
TCB50.H160.ERC40					160		
TCB50.H200.ERC40		200					
TCB50.H100.ERC50		6 ÷ 34			100	78	
TCB50.H130.ERC50					130		
TCB50.H160.ERC50					160		

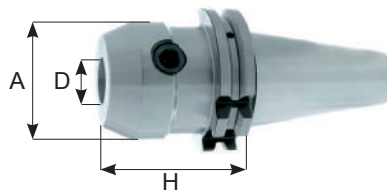
Portapinze ER con ghiere MINI con passaggio del refrigerante
 Collet chucks ER MINI nut with coolant thru


TCB40 / 50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
TCB40.H100.ERC11M	1	1 ÷ 7	12.000	AD+B	100	16	
TCB40.H130.ERC11M					130		
TCB40.H160.ERC11M					160		
TCB40.H70.ERC16M		70			22		
TCB40.H100.ERC16M		100					
TCB40.H130.ERC16M		130					
TCB40.H160.ERC16M		160					
TCB40.H100.ERC20M		100			1 ÷ 14	28	
TCB40.H130.ERC20M		130					
TCB40.H160.ERC20M		160					
TCB40.H100.ERC25M		100			1 ÷ 20	35	
TCB40.H160.ERC25M		160					
TCB40.H200.ERC25M		200					
TCB50.H100.ERC16M		100			1 ÷ 10	22	
TCB50.H130.ERC16M		130					
TCB50.H160.ERC16M		160					
TCB50.H200.ERC16M		200					
TCB50.H100.ERC20M		100			1 ÷ 14	28	
TCB50.H130.ERC20M		130					
TCB50.H160.ERC20M		160					
TCB50.H200.ERC20M		200					
TCB50.H100.ERC25M		100			1 ÷ 20	35	
TCB50.H130.ERC25M		130					
TCB50.H160.ERC25M		160					
TCB50.H200.ERC25M		200					

Portafrese Weldon DIN/1835-B

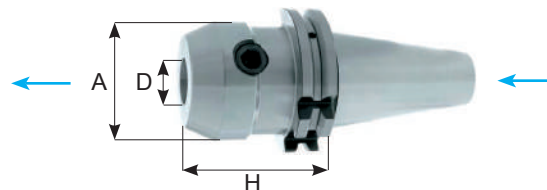
End mill holders for DIN/1835-B


TC30

CODICE	FAM	D	FORMA	H	A	EUR
TC30.H50.WE6	1	6	AD	50	25	
TC30.H50.WE8		8		50	28	
TC30.H50.WE10		10		50	35	
TC30.H50.WE12		12		50	42	
TC30.H50.WE14		14		50	44	
TC30.H63.WE16		16		63	48	
TC30.H63.WE18		18		63	50	
TC30.H63.WE20		20		63	52	
TC30.H100.WE20		20		100	65	

Portafrese Weldon DIN/1835-B con passaggio del refrigerante

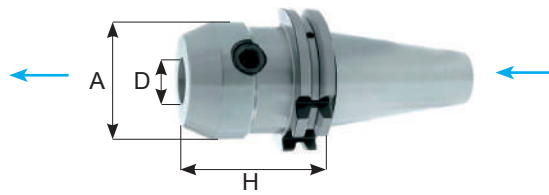
End mill holders for DIN/1835-B with coolant thru


TCB40

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H50.WE6	1-11	6	AD+B	50	25	
TCB40.H100.WE6				100		
TCB40.H130.WE6				130		
TCB40.H160.WE6				160		
TCB40.H200.WE6				200		
TCB40.H50.WE8				8		50
TCB40.H100.WE8		100				
TCB40.H130.WE8		130				
TCB40.H160.WE8		160				
TCB40.H200.WE8		200				
TCB40.H50.WE10		10			63	35
TCB40.H100.WE10				100		
TCB40.H130.WE10	130					
TCB40.H160.WE10	160					
TCB40.H200.WE10	200					

Portafrese Weldon DIN/1835-B con passaggio del refrigerante

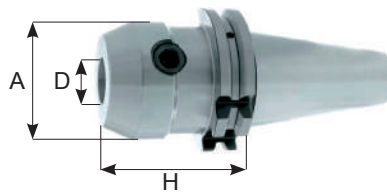
End mill holders for DIN/1835-B shanks with coolant thru


TCB40

CODICE	FAM	D	FORMA	H	A	EUR	
TCB40.H50.WE12	1	12	AD+B	50	42		
TCB40.H100.WE12				100			
TCB40.H130.WE12				130			
TCB40.H160.WE12				160			
TCB40.H200.WE12		200					
TCB40.H50.WE14		14		14	50	44	
TCB40.H100.WE14					100		
TCB40.H130.WE14					130		
TCB40.H160.WE14					160		
TCB40.H200.WE14		200					
TCB40.H63.WE16		16		16	63	48	
TCB40.H100.WE16					100		
TCB40.H130.WE16					130		
TCB40.H160.WE16					160		
TCB40.H200.WE16		200					
TCB40.H63.WE18		18		18	63	50	
TCB40.H100.WE18					100		
TCB40.H130.WE18					130		
TCB40.H160.WE18					160		
TCB40.H200.WE18		200					
TCB40.H63.WE20		20		20	63	52	
TCB40.H100.WE20					100		
TCB40.H130.WE20					130		
TCB40.H160.WE20					160		
TCB40.H200.WE20		200					
TCB40.H100.WE25		25		25	100	65	
TCB40.H130.WE25					130		
TCB40.H160.WE25					160		
TCB40.H100.WE32		32		32	100	72	
TCB40.H130.WE32					130		
TCB40.H160.WE32					160		
TCB40.H120.WE40		40			120	80	

Portafrese Weldon DIN/1835-B

End mill holders for DIN/1835-B shanks

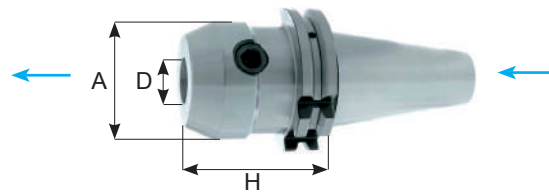


TCB50

CODICE	FAM	D	FORMA	H	A	EUR
TCB50.H63.WE6	1	6	AD+B	63	25	
TCB50.H100.WE6				100		
TCB50.H130.WE6				130		
TCB50.H160.WE6				160		
TCB50.H200.WE6				200		
TCB50.H63.WE8		8		63	28	
TCB50.H100.WE8				100		
TCB50.H130.WE8				130		
TCB50.H160.WE8				160		
TCB50.H200.WE8		200				
TCB50.H63.WE10		10		63	35	
TCB50.H100.WE10				100		
TCB50.H130.WE10				130		
TCB50.H160.WE10				160		
TCB50.H200.WE10		200				
TCB50.H63.WE12		12		63	42	
TCB50.H100.WE12				100		
TCB50.H130.WE12				130		
TCB50.H160.WE12				160		
TCB50.H200.WE12		200				
TCB50.H63.WE14	14	63	44			
TCB50.H100.WE14		100				
TCB50.H130.WE14		130				
TCB50.H160.WE14		160				
TCB50.H200.WE14	200					
TCB50.H63.WE16	16	63	48			
TCB50.H100.WE16		100				
TCB50.H130.WE16		130				
TCB50.H160.WE16		160				
TCB50.H200.WE16	200					

Portafrese Weldon DIN/1835-B con passaggio del refrigerante

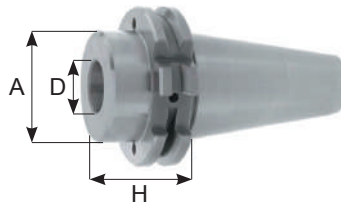
End mill holders for DIN/1835-B shanks with coolant thru


TCB50

CODICE	FAM	D	FORMA	H	A	EUR
TCB50.H63.WE18	1	18	AD+B	63	50	
TCB50.H100.WE18				100		
TCB50.H130.WE18				130		
TCB50.H160.WE18				160		
TCB50.H200.WE18				200		
TCB50.H63.WE20		20		63	52	
TCB50.H100.WE20				100		
TCB50.H130.WE20				130		
TCB50.H160.WE20				160		
TCB50.H200.WE20				200		
TCB50.H250.WE20		250				
TCB50.H80.WE25		25		80	65	
TCB50.H100.WE25				100		
TCB50.H130.WE25				130		
TCB50.H160.WE25				160		
TCB50.H200.WE25				200		
TCB50.H250.WE25		250				
TCB50.H100.WE32		32		100	72	
TCB50.H130.WE32				130		
TCB50.H160.WE32				160		
TCB50.H200.WE32				200		
TCB50.H250.WE32				250		
TCB50.H112.WE40		40		112	80	
TCB50.H130.WE40				130		
TCB50.H160.WE40				160		
TCB50.H200.WE40	200					
TCB50.H130.WE50	50	130	100			

Portafrese Weldon extra corto DIN/1835-B

Shortly type end mill holders for DIN/1835-B shanks

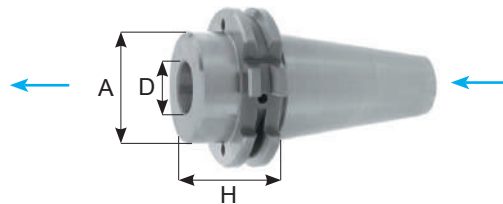


TC30

CODICE	FAM	D	FORMA	H	A	EUR
TC30.H35.WE16	1	16	AD	35	25	
TC30.H35.WE20		20		35	28	

Portafrese Weldon extra corto DIN/1835-B con passaggio del refrigerante

Shortly type end mill holders for DIN/1835-B shanks with coolant thru

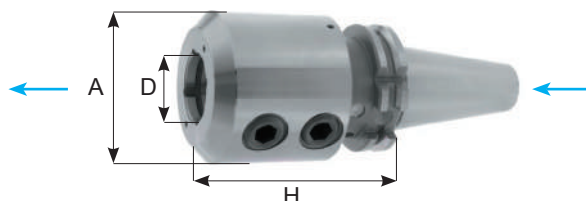


TCB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H35.WE16	1	16	AD+B	35	44	
TCB40.H35.WE20		20		35	44	
TCB40.H35.WE25		25		35	44	
TCB40.H60.WE25		25		60	49	
TCB40.H40.WE32		32		40	44	
TCB40.H70.WE32		32		70	72	
TCB50.H35.WE16		16		35	70	
TCB50.H35.WE20		20		35	70	
TCB50.H35.WE25		25		35	70	
TCB50.H35.WE32		32		35	70	
TCB50.H35.WE40		40		35	70	

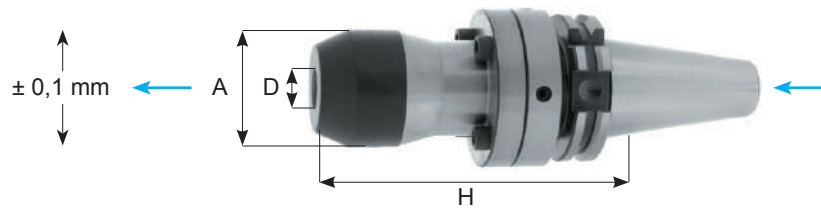
Portafrese Weldon con passaggio del refrigerante

End mill holders with coolant channels


TCB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H65.WE6C	1	6	AD+B	65	25	
TCB40.H65.WE8C		8		65	28	
TCB40.H65.WE10C		10		65	35	
TCB40.H65.WE12C		12		65	42	
TCB40.H65.WE14C		14		65	44	
TCB40.H65.WE16C		16		65	48	
TCB40.H65.WE18C		18		65	50	
TCB40.H65.WE20C		20		65	52	
TCB40.H100.WE25C		25		100	65	
TCB40.H100.WE32C		32		100	72	
TCB50.H63.WE6C		6		63	25	
TCB50.H63.WE8C		8		63	28	
TCB50.H63.WE10C		10		63	35	
TCB50.H63.WE12C		12		63	42	
TCB50.H63.WE14C		14		63	44	
TCB50.H63.WE16C		16		63	48	
TCB50.H63.WE18C		18		63	50	
TCB50.H63.WE20C		20		63	52	
TCB50.H100.WE25C		25		100	65	
TCB50.H100.WE32C		32		100	72	
TCB50.H100.WE40C	40	100	80			

Portafrese Weldon con regolazione radiale e passaggio del refrigerante
Radial adjustable en mill holders

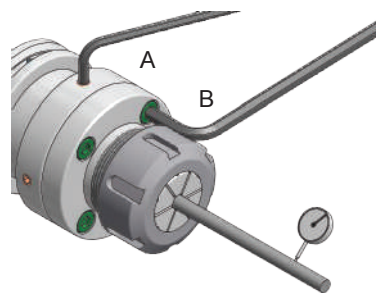


TCB40 / 50

REGOLAZIONE 0.01 mm

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H100.WE6RG	1	6	AD+B	100	25	
TCB40.H100.WE8RG		8		100	28	
TCB40.H100.WE10RG		10		100	35	
TCB40.H110.WE12RG		12		110	40	
TCB40.H110.WE14RG		14		110	40	
TCB40.H130.WE16RG		16		130	48	
TCB40.H130.WE18RG		18		130	48	
TCB40.H135.WE20RG		20		135	52	
TCB50.H110.WE12RG		12		110	40	
TCB50.H110.WE14RG		14		110	40	
TCB50.H130.WE16RG		16		130	48	
TCB50.H130.WE18RG		18		130	48	
TCB50.H135.WE20RG		20		135	52	

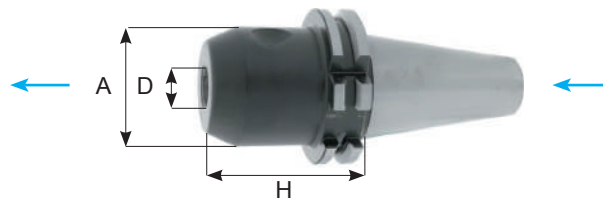
Centatura regolabile 0,01mm
Adjustable runout 0,01mm



Allentare le viti B e regolare la centatura tramite le viti A.
Loosen screws B and use screws A for radial adjustment.

Portafrese Weldon Whistle-Notch con passaggio del refrigerante

Whistle-Notch end mill holders with coolant thru

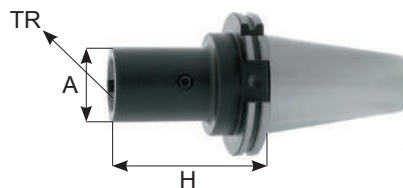


TCB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H50.WHN6	1	6	AD+B	50	25	
TCB40.H50.WHN8		8		50	28	
TCB40.H50.WHN10		10		50	35	
TCB40.H50.WHN12		12		50	42	
TCB40.H50.WHN14		14		50	44	
TCB40.H63.WHN16		16		63	48	
TCB40.H63.WHN18		18		63	50	
TCB40.H63.WHN20		20		63	52	
TCB40.H100.WHN25		25		100	65	
TCB40.H100.WHN32		32		100	72	
TCB50.H63.WHN6		6		63	25	
TCB50.H63.WHN8		8		63	28	
TCB50.H63.WHN10		10		63	35	
TCB50.H63.WHN12		12		63	42	
TCB50.H63.WHN14		14		63	44	
TCB50.H63.WHN16		16		63	48	
TCB50.H63.WHN18		18		63	50	
TCB50.H63.WHN20		20		63	52	
TCB50.H80.WHN25		25		80	65	
TCB50.H100.WHN32		32		100	72	
TCB50.H112.WHN40	40	112	80			

Riduzioni per DIN/6327

Automotive shank adapters DIN/6327

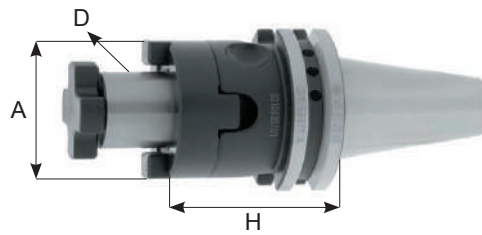


TC40 / 50

CODICE	FAM	TR	H	A	EUR
TC40.H80.TR20	1	20	80	32	
TC40.H100.TR28		28	100	40	
TC40.H115.TR36		36	115	50	
TC50.H100.TR28		28	100	40	
TC50.H100.TR36		36	100	50	
TC50.H105.TR48		48	105	67	

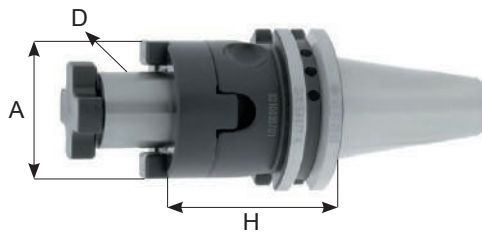
Portafrese combinato

Combi shell end mill holders


TC30 / 40

CODICE	FAM	D	FORMA	H	A	EUR	
TC30.H50.D16C	1-11	16	AD	50	32		
TC30.H50.D22C		22		50	40		
TC30.H55.D27C		27		55	48		
TC30.H60.D32C		32		60	58		
TC40.H55.D16C					55	32	
TC40.H100.D16C					100		
TC40.H130.D16C				16	130		
TC40.H160.D16C					160		
TC40.H200.D16C					200		
TC40.H55.D22C					55	40	
TC40.H100.D22C					100		
TC40.H130.D22C				22	130		
TC40.H160.D22C					160		
TC40.H200.D22C					200		
TC40.H55.D27C					55	48	
TC40.H100.D27C					100		
TC40.H130.D27C				27	130		
TC40.H160.D27C					160		
TC40.H200.D27C					200		
TC40.H60.D32C					60	58	
TC40.H100.D32C					100		
TC40.H130.D32C				32	130		
TC40.H160.D32C					160		
TC40.H200.D32C					200		
TC40.H60.D40C					60	70	
TC40.H100.D40C					100		
TC40.H130.D40C				40	130		
TC40.H160.D40C					160		
TC40.H200.D40C					200		

Portafrese combinato
Combi shell end mill holders

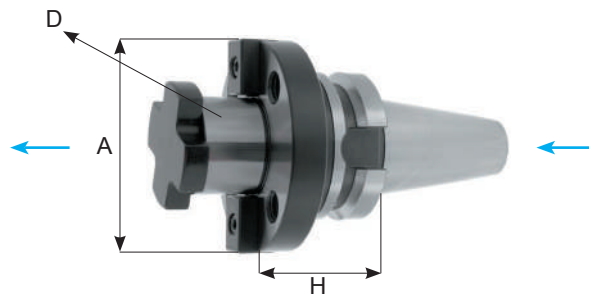


TC50

CODICE	FAM	D	FORMA	H	A	EUR
TC50.H55.D16C	1-11	16	AD	55	32	
TC50.H100.D16C				100		
TC50.H130.D16C				130		
TC50.H160.D16C				160		
TC50.H55.D22C		22		55	40	
TC50.H100.D22C				100		
TC50.H130.D22C				130		
TC50.H160.D22C		160				
TC50.H55.D27C		27		55	48	
TC50.H100.D27C				100		
TC50.H130.D27C				130		
TC50.H160.D27C				160		
TC50.H55.D32C		32		55	58	
TC50.H100.D32C				100		
TC50.H130.D32C				130		
TC50.H160.D32C				160		
TC50.H55.D40C	40	55	70			
TC50.H100.D40C		100				
TC50.H130.D40C		130				
TC50.H160.D40C		160				

Portafrese fisso maggiorato con passaggio del refrigerante

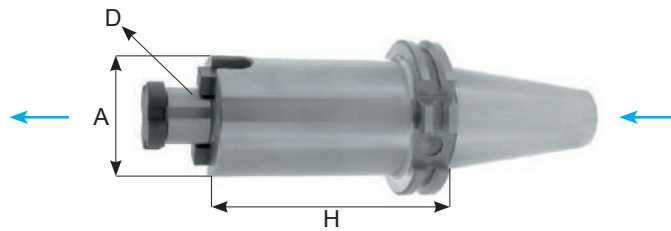
Combi shell end mill holders



TCB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H50.D40FM	1	40	AD+B	50	88	
TCB50.H70.D60FM	1-12	60		70	129	

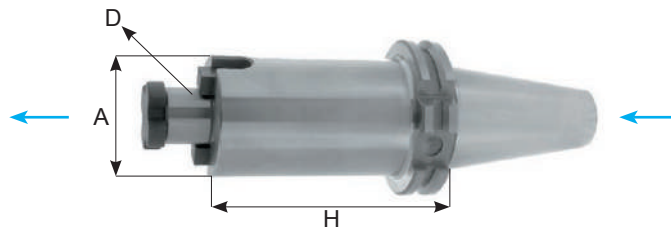
Portafrese fisso con passaggio del lubrificante
Shell end mill holders with coolant channels



TCB40

CODICE	FAM	D	FORMA	H	EUR
TCB40.H35.D16SP	1-11	16	AD+B	35	
TCB40.H45.D16S				45	
TCB40.H100.D16S				100	
TCB40.H130.D16S				130	
TCB40.H160.D16S				160	
TCB40.H200.D16S				200	
TCB40.H35.D22SP		22		35	
TCB40.H45.D22S				45	
TCB40.H100.D22S				100	
TCB40.H130.D22S				130	
TCB40.H160.D22S				160	
TCB40.H200.D22S				200	
TCB40.H35.D27SP		27		35	
TCB40.H50.D27S				50	
TCB40.H100.D27S				100	
TCB40.H130.D27S				130	
TCB40.H160.D27S				160	
TCB40.H200.D27S				200	
TCB40.H50.D32SP		32		50	
TCB40.H55.D32S				55	
TCB40.H100.D32S	100				
TCB40.H130.D32S	130				
TCB40.H160.D32S	160				
TCB40.H200.D32S	200				
TCB40.H60.D40S	40	60			
TCB40.H100.D40S		100			
TCB40.H130.D40S		130			
TCB40.H160.D40S		160			
TCB40.H200.D40S		200			

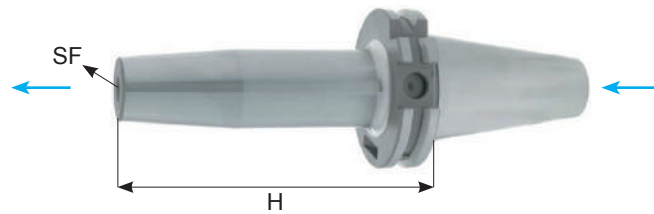
Portafrese fisso con passaggio del refrigerante
Shell end mill holders with coolant thru



TCB50

CODICE	FAM	D	FORMA	H	EUR
TCB50.H35.D16SP	1-11	16	AD+B	35	
TCB50.H45.D16S				45	
TCB50.H100.D16S				100	
TCB50.H130.D16S				130	
TCB50.H160.D16S				160	
TCB50.H200.D16S				200	
TCB50.H250.D16S				250	
TCB50.H300.D16S				300	
TCB50.H350.D16S				350	
TCB50.H35.D22SP				22	35
TCB50.H45.D22S		45			
TCB50.H100.D22S		100			
TCB50.H130.D22S		130			
TCB50.H160.D22S		160			
TCB50.H200.D22S		200			
TCB50.H250.D22S		250			
TCB50.H300.D22S		300			
TCB50.H350.D22S		350			
TCB50.H35.D27SP		27			35
TCB50.H45.D27S				45	
TCB50.H100.D27S				100	
TCB50.H130.D27S				130	
TCB50.H160.D27S				160	
TCB50.H200.D27S				200	
TCB50.H250.D27S				250	
TCB50.H300.D27S				300	
TCB50.H350.D27S				350	
TCB50.H35.D32SP				32	35
TCB50.H50.D32S		50			
TCB50.H100.D32S		100			
TCB50.H130.D32S		130			
TCB50.H160.D32S		160			
TCB50.H200.D32S		200			
TCB50.H250.D32S		250			
TCB50.H300.D32S		300			
TCB50.H350.D32S	350				
TCB50.H55.D40SP	40	55			
TCB50.H75.D40S		75			
TCB50.H100.D40S		100			
TCB50.H130.D40S		130			
TCB50.H160.D40S		160			
TCB50.H200.D40S		200			

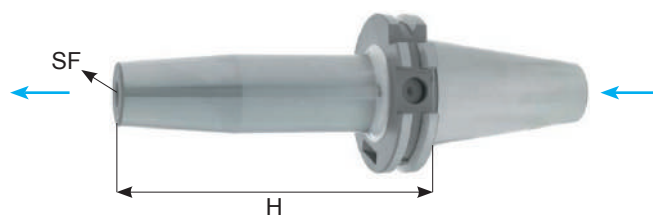
Mandrini a calettamento con passaggio del refrigerante (4,5°)
 Shrink Fit holders with coolant thru (4,5°)


TCB40 / 50
BILANCIATO G2,5 RPM25000
 BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
TCB40.H80.SF3	1-11	SF3	AD+B	80	
TCB40.H80.SF4		SF4		80	
TCB40.H80.SF5		SF5		80	
TCB40.H80.SF6		SF6		80	
TCB40.H120.SF6		SF6		120	
TCB40.H160.SF6		SF6		160	
TCB40.H80.SF8		SF8		80	
TCB40.H120.SF8		SF8		120	
TCB40.H160.SF8		SF8		160	
TCB40.H80.SF10		SF10		80	
TCB40.H120.SF10		SF10		120	
TCB40.H160.SF10		SF10		160	
TCB40.H80.SF12		SF12		80	
TCB40.H120.SF12		SF12		120	
TCB40.H160.SF12		SF12		160	
TCB40.H80.SF14		SF14		80	
TCB40.H80.SF16		SF16		80	
TCB40.H120.SF16		SF16		120	
TCB40.H160.SF16		SF16		160	
TCB40.H80.SF18		SF18		80	
TCB40.H80.SF20		SF20		80	
TCB40.H120.SF20		SF20		120	
TCB40.H160.SF20		SF20		160	
TCB40.H100.SF25		SF25		100	
TCB50.H80.SF6		5		SF6	AD+B
TCB50.H120.SF6	SF6		120		
TCB50.H160.SF6	SF6		160		
TCB50.H80.SF8	SF8		80		
TCB50.H120.SF8	SF8		120		
TCB50.H160.SF8	SF8		160		
TCB50.H80.SF10	SF10		80		
TCB50.H120.SF10	SF10		120		
TCB50.H160.SF10	SF10		160		
TCB50.H80.SF12	SF12		80		
TCB50.H120.SF12	SF12		120		
TCB50.H160.SF12	SF12		160		

Mandrini a calettamento con passaggio del refrigerante (4,5°)

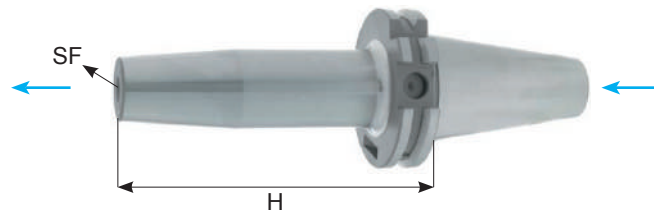
Shrink Fit holders with coolant thru (4,5°)


TCB50
BILANCIATO G2,5 RPM25000
 BALANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
TCB50.H80.SF14	5	SF14	AD+B	80	
TCB50.H120.SF14		SF14		120	
TCB50.H160.SF14		SF14		160	
TCB50.H80.SF16		SF16		80	
TCB50.H120.SF16		SF16		120	
TCB50.H160.SF16		SF16		160	
TCB50.H90.SF18		SF18		90	
TCB50.H120.SF18		SF18		120	
TCB50.H160.SF18		SF18		160	
TCB50.H90.SF20		SF20		90	
TCB50.H120.SF20		SF20		120	
TCB50.H160.SF20		SF20		160	
TCB50.H100.SF25		SF25		100	
TCB50.H160.SF25		SF25		160	
TCB50.H100.SF32		SF32		100	
TCB50.H160.SF32		SF32		160	

Mandrini a calettamento con passaggio del refrigerante (3°)

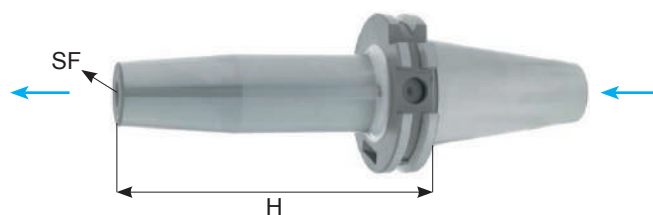
Shrink fit holders with coolant thru (3°)


TCB40
BILANCIATO G2,5 RPM25000
 BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
TCB40.H80.SF3	5	SF3	AD+B	80	
TCB40.H120.SF3		SF3		120	
TCB40.H160.SF3		SF3		160	
TCB40.H80.SF4		SF4		80	
TCB40.H120.SF4		SF4		120	
TCB40.H160.SF4		SF4		160	
TCB40.H80.SF5		SF5		80	
TCB40.H120.SF5		SF5		120	
TCB40.H160.SF5		SF5		160	
TCB40.H80.SF6		SF6		80	
TCB40.H120.SF6		SF6		120	
TCB40.H160.SF6		SF6		160	
TCB40.H80.SF8		SF8		80	
TCB40.H120.SF8		SF8		120	
TCB40.H160.SF8		SF8		160	
TCB40.H80.SF10		SF10		80	
TCB40.H120.SF10		SF10		120	
TCB40.H160.SF10		SF10		160	
TCB40.H80.SF12		SF12		80	
TCB40.H120.SF12		SF12		120	
TCB40.H160.SF12		SF12		160	
TCB40.H80.SF14		SF14		80	
TCB40.H120.SF14		SF14		120	
TCB40.H160.SF14		SF14		160	
TCB40.H80.SF16		SF16		80	
TCB40.H120.SF16		SF16		120	
TCB40.H160.SF16		SF16		160	
TCB40.H80.SF18		SF18		80	
TCB40.H120.SF18		SF18		120	
TCB40.H160.SF18		SF18		160	
TCB40.H80.SF20		SF20		80	
TCB40.H120.SF20		SF20		120	
TCB40.H160.SF20	SF20	160			

Mandrini a calettamento con passaggio del refrigerante (3°)

Shrink fit holders with coolant thru (3°)

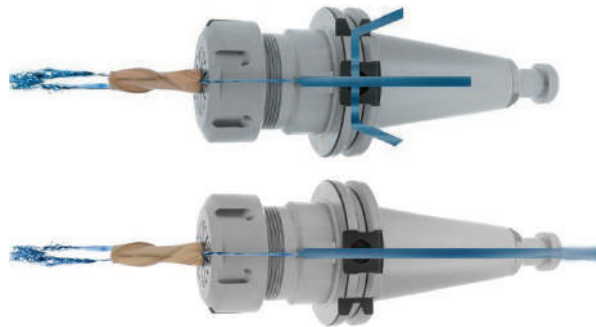

TCB50
BILANCIATO G2,5 RPM25000
 BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
TCB50.H80.SF3	5	SF3	AD+B	80	
TCB50.H120.SF3		SF3		120	
TCB50.H160.SF3		SF3		160	
TCB50.H80.SF4		SF4		80	
TCB50.H120.SF4		SF4		120	
TCB50.H160.SF4		SF4		160	
TCB50.H80.SF5		SF5		80	
TCB50.H120.SF5		SF5		120	
TCB50.H160.SF5		SF5		160	
TCB50.H80.SF6		SF6		80	
TCB50.H120.SF6		SF6		120	
TCB50.H160.SF6		SF6		160	
TCB50.H80.SF8		SF8		80	
TCB50.H120.SF8		SF8		120	
TCB50.H160.SF8		SF8		160	
TCB50.H80.SF10		SF10		80	
TCB50.H120.SF10		SF10		120	
TCB50.H160.SF10		SF10		160	
TCB50.H80.SF12		SF12		80	
TCB50.H120.SF12		SF12		120	
TCB50.H160.SF12		SF12		160	
TCB50.H80.SF14		SF14		80	
TCB50.H120.SF14		SF14		120	
TCB50.H160.SF14		SF14		160	
TCB50.H80.SF16		SF16		80	
TCB50.H120.SF16		SF16		120	
TCB50.H160.SF16		SF16		160	
TCB50.H80.SF18		SF18		80	
TCB50.H120.SF18		SF18		120	
TCB50.H160.SF18		SF18		160	
TCB50.H80.SF20		SF20		80	
TCB50.H120.SF20		SF20		120	
TCB50.H160.SF20	SF20	160			

Mandrini a doppio contatto
Double contact spindle

Forma
AD+B = TCB

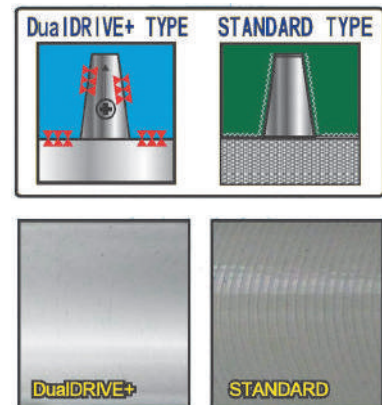
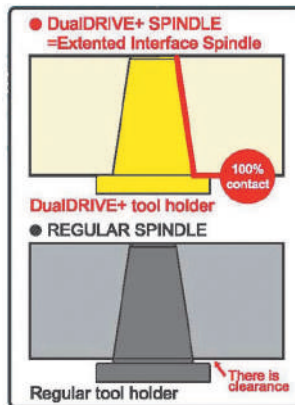
Forma
AD = TC



**DOPPIO
CONTATTO**

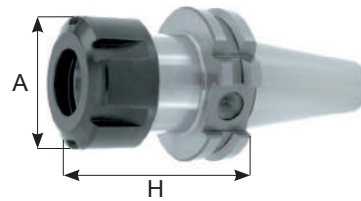


CONO TAPER	FORMA FORM
DCTCB40	AD
DCTCB50	AD



Portapinze ER con ghiere STANDARD Doppio Contatto

Collet chucks ER STANDARD nut Dual Drive



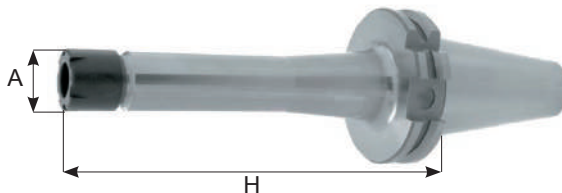
**DOPPIO
CONTATTO**

DCTCB 40 / 50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
DCTCB40.H70.ERC16	1	1 ÷ 10	12.000	AD+B	70	28	
DCTCB40.H100.ERC16		100					
DCTCB40.H70.ERC20		1 ÷ 14			70	34	
DCTCB40.H100.ERC20		100					
DCTCB40.H70.ERC25		1 ÷ 20			70	42	
DCTCB40.H100.ERC25		100					
DCTCB40.H70.ERC32		2 ÷ 22			70	50	
DCTCB40.H100.ERC32		100					
DCTCB40.H70.ERC40		3 ÷ 30			70	63	
DCTCB40.H100.ERC40		100					
DCTCB50.H80.ERC16		1 ÷ 10			80	28	
DCTCB50.H100.ERC16		100					
DCTCB50.H80.ERC20		1 ÷ 14			80	34	
DCTCB50.H100.ERC20		100					
DCTCB50.H80.ERC25		1 ÷ 20			80	42	
DCTCB50.H100.ERC25		100					
DCTCB50.H80.ERC32		2 ÷ 22			80	50	
DCTCB50.H130.ERC32					130		
DCTCB50.H160.ERC32					160		
DCTCB50.H200.ERC32					200		
DCTCB50.H80.ERC40	3 ÷ 30	80	63				
DCTCB50.H100.ERC40		100					
DCTCB50.H130.ERC40		130					

Portapinze ER con ghiere MINI Doppio Contatto

Collet chucks ER MINI nut Dual Drive



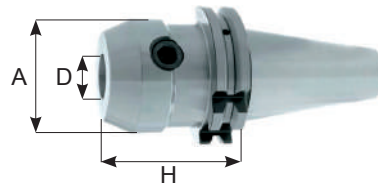
**DOPPIO
CONTATTO**

DCTCB 40 / 50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
DCTCB40.H100.ERC11M	1	1 ÷ 7	12.000	AD+B	100	16	
DCTCB40.H100.ERC16M		1 ÷ 10				22	
DCTCB40.H100.ERC20M		1 ÷ 14				28	
DCTCB50.H100.ERC11M		1 ÷ 7	12.000	AD	100	16	
DCTCB50.H100.ERC16M		1 ÷ 10				22	
DCTCB50.H100.ERC20M		1 ÷ 14				28	

Portafrese Weldon DIN/1835-B Doppio Contatto

End mill holders for DIN/1835-B shanks Dual Drive



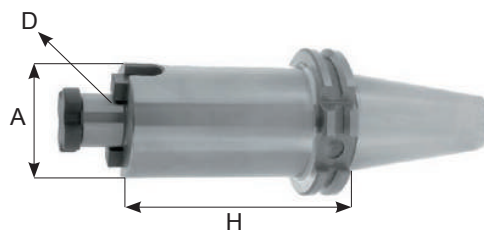
**DOPPIO
CONTATTO**

SDAT40 / SDAT50

CODICE	FAM	D	FORMA	H	A	EUR
SDAT40.H50.WE6	1	6	AD	50	25	
SDAT40.H50.WE8		8		50	28	
SDAT40.H50.WE10		10		50	35	
SDAT40.H50.WE12		12		50	42	
SDAT40.H63.WE16		16		63	45	
SDAT40.H63.WE20		20		63	52	
SDAT40.H100.WE25		25		100	65	
SDAT40.H100.WE32		32		100	72	
SDAT50.H63.WE6		6		63	25	
SDAT50.H63.WE8		8		63	28	
SDAT50.H63.WE10		10		63	35	
SDAT50.H63.WE12		12		63	42	
SDAT50.H63.WE16		16		63	48	
SDAT50.H63.WE20		20		63	52	
SDAT50.H80.WE25		25		80	65	
SDAT50.H100.WE32		32		100	72	
SDAT50.H112.WE40		40		112	90	
SDAT50.H130.WE50		50		130	100	

Portafrese fisso DIN/69871 Doppio Contatto

Shell end mill holders Dual Drive

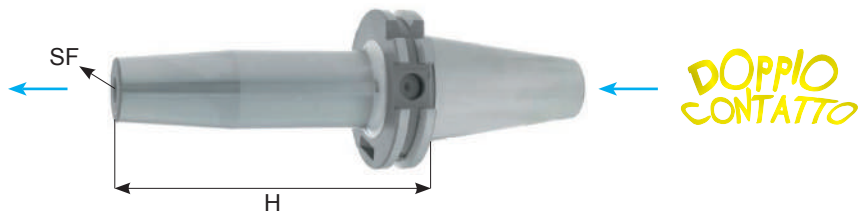


**DOPPIO
CONTATTO**

DCTCB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
DCTCB40.H35.D16S	1	16	AD	35	38	
DCTCB40.H35.D22S		22		35	48	
DCTCB40.H60.D27S		27		60	58	
DCTCB40.H60.D32S		32		60	78	
DCTCB40.H60.D40S		40		60	88	
DCTCB50.H35.D16S		16		35	38	
DCTCB50.H35.D22S		22		35	48	
DCTCB50.H35.D27S		27		35	58	
DCTCB50.H35.D32S		32		35	78	
DCTCB50.H50.D40S		40		50	88	

Mandrina Doppio Contatto a Calettamento Termico (4,5°)
Double Contact Shrink fit toolholder (4,5°)



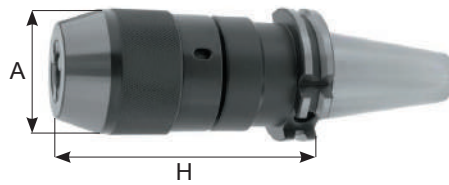
DCTCB40 / 50

BILANCIATO G2,5 RPM25000
BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
DCTCB40.H80.SF3	1	SF3	AD+B	80	
DCTCB40.H80.SF4		SF4		80	
DCTCB40.H80.SF5		SF5		80	
DCTCB40.H80.SF6		SF6		80	
DCTCB40.H80.SF8		SF8		80	
DCTCB40.H80.SF10		SF10		80	
DCTCB40.H80.SF12		SF12		80	
DCTCB40.H80.SF14		SF14		80	
DCTCB40.H80.SF16		SF16		80	
DCTCB40.H80.SF18		SF18		80	
DCTCB40.H80.SF20		SF20		80	
DCTCB40.H100.SF25		SF25		100	
DCTCB40.H100.SF32		SF32		100	
DCTCB50.H80.SF3		SF3		80	
DCTCB50.H80.SF4		SF4		80	
DCTCB50.H80.SF5		SF5		80	
DCTCB50.H80.SF6		SF6		80	
DCTCB50.H80.SF8		SF8		80	
DCTCB50.H80.SF10		SF10		80	
DCTCB50.H80.SF12		SF12		80	
DCTCB50.H80.SF14		SF14		80	
DCTCB50.H80.SF16		SF16		80	
DCTCB50.H80.SF18		SF18		80	
DCTCB50.H80.SF20		SF20		80	
DCTCB50.H100.SF25		SF25		100	
DCTCB50.H100.SF32	SF32	100			

Mandrini porta punte con chiavi a gancio

Drill chuck with hook wrench


TC30 / 40 / 50

CODICE	FAM	CAP	H	A	EUR
TC30.H80.DCK8	1	1 ÷ 8	80	36	
TC40.H75.DCK8		1 ÷ 8	75	36	
TC40.H100.DCK13		1 ÷ 13	100	50	
TC40.H115.DCK16		1 ÷ 16	115	58	
TC50.H88.DCK13		1 ÷ 13	88	50	
TC50.H90.DCK16		1 ÷ 16	90	58	

Ricambi mandrini porta punte con chiavi a gancio

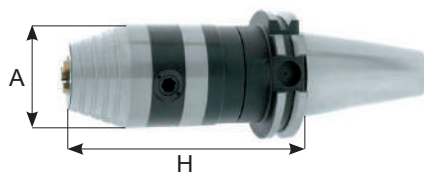
Replacement drill chuck with hook wrench heads


DCK

CODICE	FAM	CAP	EUR
DCK8.MT2S	1	1 ÷ 8	
DCK13.MT3S		1 ÷ 13	
DCK16.MT3S		1 ÷ 16	

Mandrini porta punta con chiavi esagonali

Exagonal key look drill chucks titanium jaws


TC40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
TC40.H115.CP13	1	1 ÷ 13	AD	115	50	
TC40.H120.CP16		1 ÷ 16		120		
TC50.H103.CP13		1 ÷ 13		103		
TC50.H108.CP16		1 ÷ 16		108		

Ricambi porta punta a forte serraggio

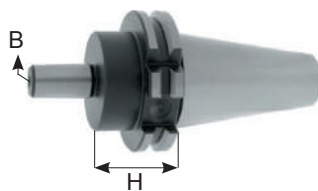
Replacement drill chuck heads


CP

CODICE	FAM	CAP	EUR
CP13.MT3	1	1 ÷ 13	
CP16-MT3		1 ÷ 16	

Mandrini porta punte

Drill chuck Arbors

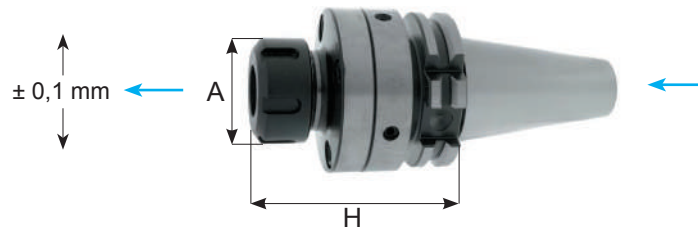


TC30 / 40 / 50

CODICE	FAM	DIN	B	H	EUR
TC30.H25.B12	1	DIN/238	B12	25	
TC30.H25.B16			B16	25	
TC40.H40.B12			B12	40	
TC40.H40.B16			B16	40	
TC40.H40.B18			B18	40	
TC50.H40.B16			B16	40	
TC50.H40.B18			B18	40	

Portapinze radiali regolabili con passaggio del refrigerante

Radial adjustable collet chucks with coolant thru

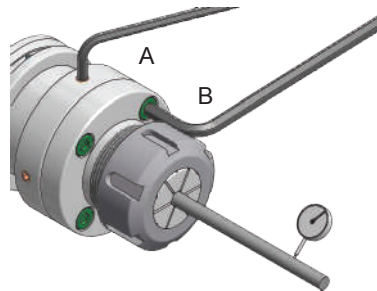


TCB40 / 50

CODICE	FAM	CAP	PINZA	FORMA	FLOT	H	A	EUR
TCB40.ERC16.L93RG	1	1 ÷ 10	ER16	AD	± 1 mm	93	28	
TCB40.ERC20.L95RG		1 ÷ 14	ER20			95	34	
TCB40.ERC25.L96RG		1 ÷ 20	ER25			96	43	
TCB40.ERC32.L97RG		2 ÷ 22	ER32			97	97	
TCB40.ERC40.L131RG		3 ÷ 30	ER40			131	63	
TCB50.ERC16.L93RG		1 ÷ 10	ER16			93	28	
TCB50.ERC20.L95RG		1 ÷ 14	ER20			95	34	
TCB50.ERC25.L96RG		1 ÷ 20	ER25			96	42	
TCB50.ERC32.L97RG		2 ÷ 22	ER32			97	50	
TCB50.ERC40.L131RG		3 ÷ 30	ER40			131	63	

Centratura regolabile 0,01mm

Adjustable runout 0,01mm



Allentare le viti B e regolare la centratura tramite le viti A.

Loosen screws B and use screws A for radial adjustment.

Portapinze extra corto
Shortly Collet chucks

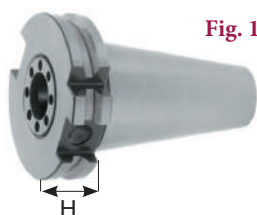


Fig. 1

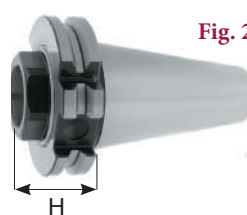
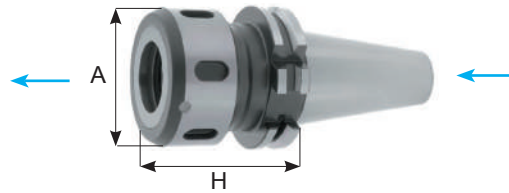


Fig. 2

TC40 / 50

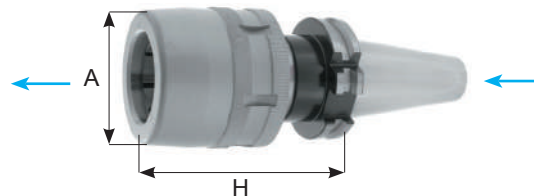
CODICE	FAM	CAP	RPM	FORMA	H	EUR
TC40.H21.ERC25A Fig. 1	1	1 ÷ 20	12.000	AD	21	
TC40.H21.ERC32A Fig. 1		2 ÷ 22		AD	21	
TC50.H21.ERC32A Fig. 1		2 ÷ 22		AD	21	
TCB40.H40.ERC32A Fig. 2		2 ÷ 22		AD+B	40	
TCB50.H40.ERC32A Fig. 2		2 ÷ 22		AD+B	40	

Portapinze per pinze EOC DIN/6388 B con passaggio del refrigerante
 Collet chucks EOC DIN/6388 B with coolant thru


TCB40 / 50

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
TCB40.H70.EOC16	1	2 ÷ 16	12.000	AD+B	70	43	
TCB40.H100.EOC16					100	43	
TCB40.H70.EOC25		2 ÷ 25			70	60	
TCB40.H100.EOC25					100	60	
TCB40.H90.EOC32		3 ÷ 32			90	72	
TCB50.H70.EOC16		2 ÷ 16			70	43	
TCB50.H70.EOC25		2 ÷ 25			70	60	
TCB50.H80.EOC32		3 ÷ 32			80	72	

Portapinze a forte serraggio per pinze cilindriche con passaggio del refrigerante
 Power milling chucks with coolant thru


TCB40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
TCB40.H98.MC20	1	3 ÷ 16	AD	98	56.5	
TCB40.H100.MC32		3 ÷ 25		100	71	
TCB50.H98.MC20		3 ÷ 16		98	56.5	
TCB50.H103MC32		3 ÷ 25		103	71	

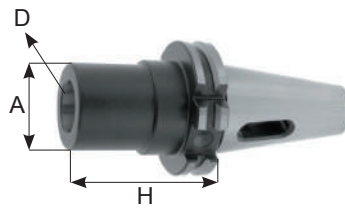
Kit mandrino portapinze
 Kit ER tooholder

CODICE	FAM	CAPACITÀ	EUR
BX.TC40.MC20	1	Pinza 3SR20	
BX.TC50.MC20		6 . 8 . 10 . 12 . 16	
BX.TC40.MC32		Pinza 3SR32	
BX.TC50.MC32		6 . 8 . 10 . 12 . 16 . 20 . 25	



Riduttori con morse DIN/228-B per Punta

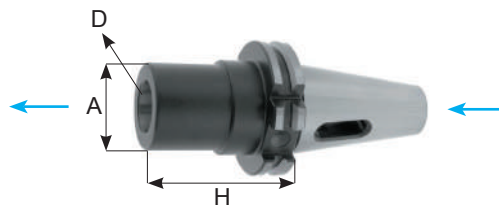
Morse taper adapters DIN/228-B for Drills


TC30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
TC30.H50.CM1P	1	CM1	AD	50	25	
TC30.H60.CM2P		CM2		60	32	
TC30.H80.CM3P		CM3		80	40	
TC40.H50.CM1P		CM1		50	25	
TC40.H50.CM2P		CM2		50	32	
TC40.H70.CM3P		CM3		70	40	
TC40.H95.CM4P		CM4		95	48	
TC50.H45.CM1P		CM1		45	25	
TC50.H120.CM1P		CM1		120	25	
TC50.H60.CM2P		CM2		60	32	
TC50.H135.CM2P		CM2		135	32	
TC50.H65.CM3P		CM3		65	40	
TC50.H155.CM3P		CM3		155	40	
TC50.H95.CM4P		CM4		95	48	
TC50.H180.CM4P		CM4		180	48	
TC50.H120.CM5P		CM5		120	63	
TC50.H215.CM5P		CM5		215	63	

Riduttori con morse DIN/228-B per Punta con passaggio refrigerante

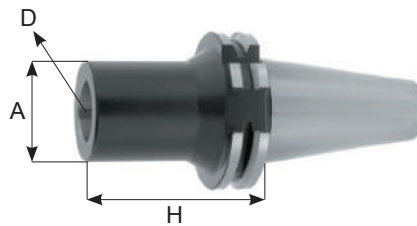
Morse taper adapters DIN/228-B for Drills coolant thru


TCB40 / B50

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H50.CM2P	1	CM2	AD+B	50	32	
TCB40.H70.CM3P		CM3		70	40	
TCB40.H95.CM4P		CM4		95	48	
TCB50.H60.CM2P		CM2		60	32	
TCB50.H65.CM3P		CM3		65	40	
TCB50.H95.CM4P		CM4		95	48	
TCB50.H105.CM5P		CM5		105	63	

Riduttori cono morse DIN/228-A per Frese

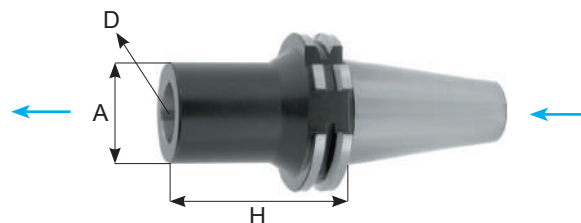
Reducing adaptors morse taper DIN/228-A for Threaded Mills


TC30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
TC30.H50.CM1FV	1	CM1	AD	50	25	
TC30.H60.CM2FV		CM2		60	32	
TC30.H85.CM3FV		CM3		85	40	
TC40.H50.CM1FV	2	CM1		50	25	
TC40.H50.CM2FV		CM2		50	32	
TC40.H70.CM3FV		CM3		70	40	
TC40.H95.CM4FV		CM4		95	48	
TC50.H45.CM1FV	1	CM1		45	25	
TC50.H60.CM2FV		CM2		60	32	
TC50.100.CM2FV		CM2		100	32	
TC50.H65.CM3FV		CM3		65	40	
TC50.H120.CM3FV		CM3		120	40	
TC50.H95.CM4FV		CM4		95	48	
TC50.H170.CM4FV		CM4		170	48	
TC50.H120.CM5FV		CM5		120	63	

Riduttori cono morse DIN/228-A per Frese con passaggio refrigerante

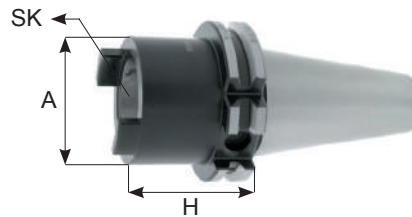
Reducing adaptors morse taper DIN/228-A for Threaded Mills coolant thru


TCB40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H70.CM3F	1	CM3	AD+B	70	40	
TCB40.H95.CM4F		CM4		95	48	
TCB50.H65.CM3F		CM3		65	40	
TCB50.H95.CM4F		CM4		95	48	
TCB50.H120.CM5F		CM5		120	63	

Mandri di riduzione ISO DIN/2080 - DIN/69871 - BT

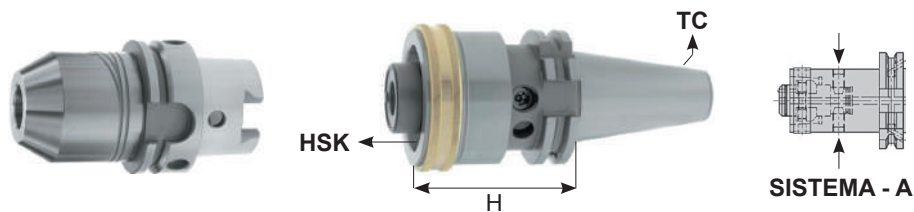
Reducing adaptors from TC to ISO DIN/2080 - DIN/69871


TC40 / 50

CODICE	FAM	ATTACCO	FORMA	H	A	EUR
TC40.H60.TB30	1	TC30 / BT30 / ISO30	AD	60	50	
TC40.H95.TB40		TC40 / BT40 / ISO40		95	68	
TC50.H70.TB40		TC40 / BT40 / ISO40		70	68	
TC50.H120.TB50		TC50 / BT50 / ISO50		120	100	

Adattori DIN/69871 a HSK - A/C con serraggio di sicurezza

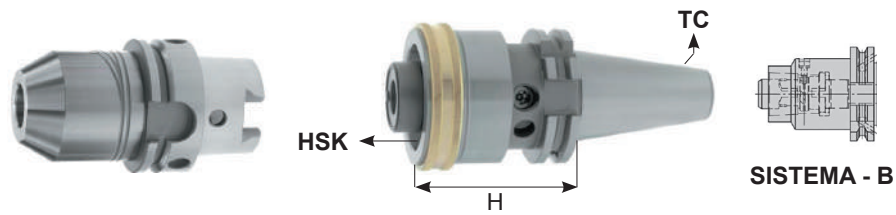
Adapters from DIN/69871 shank to HSK - A/C with tensioning piston and gasket


TCB30 / 40 / 50

CODICE	FAM	CONO	FORMA	RIDUTTORE	H	EUR
TCB30A.H55.HSK32AC	8	TC30	AD+B	HSK32-A/C	55	
TCB30A.H60.HSK40AC				HSK40-A/C	60	
TCB40A.H55.HSK25AC				HSK25-A/C	55	
TCB40A.H55.HSK32AC	1	TC40		HSK32-A/C	55	
TCB40A.H60.HSK40AC				HSK40-A/C	60	
TCB40A.H65.HSK50AC				HSK50-A/C	65	
TCB40A.H75.HSK63AC	8	TC50		HSK63-A/C	75	
TCB40A.H105.HSK80AC				HSK80-A/C	105	
TCB40A.H110.HSK100AC				HSK100-A/C	110	
TCB50A.H55.HSK32AC	1	TC50		HSK32-A/C	55	
TCB50A.H60.HSK40AC				HSK40-A/C	60	
TCB50A.H65.HSK50AC				HSK50-A/C	65	
TCB50A.H75.HSK63AC	8	TC50		HSK63-A/C	75	
TCB50A.H120.HSK63AC				HSK63-A/C	120	
TCB50A.H150.HSK63AC				HSK63-A/C	150	
TCB50A.H85.HSK80AC	1	TC50	HSK80-A/C	85		
TCB50A.H100.HSK100AC			HSK100-A/C	100		
TCB50A.H140.HSK125AC			HSK125-A/C	140		
TCB50A.H160.HSK160AC	8	TC50	HSK160-A/C	160		

Adattatori DIN/69871 a HSK - A/C/E/F con raccordo

Adapters from DIN/69871 shank to HSK - A/C/E/F with cooling tube


TCB40 / 50

CODICE	FAM	CONO	FORMA	RIDUTTORE	H	EUR
TCB40B.H45.HSK25	8	TC40	AD+B	HSK25-A/C/E/F	45	
TCB40B.H55.HSK32				HSK32-A/C/E/F	55	
TCB40B.H75.HSK40				HSK40-A/C/E/F	75	
TCB40B.H95.HSK50				HSK50-A/C/E/F	95	
TCB40B.H110.HSK63				HSK63-A/C/E/F	110	
TCB40B.H150.HSK80				HSK80-A/C/E/F	150	
TCB40B.H150.HSK100				HSK100-A/C/E/F	150	
TCB50B.H75.HSK32				TC50	HSK32-A/C/E/F	75
TCB50B.H75.HSK40		HSK40-A/C/E/F			75	
TCB50B.H75.HSK50		HSK50-A/C/E/F			75	
TCB50B.H75.HSK63		HSK63-A/C/E/F			75	
TCB50B.H100.HSK80		HSK80-A/C/E/F			100	
TCB50B.H150.HSK100		HSK100-A/C/E/F			150	

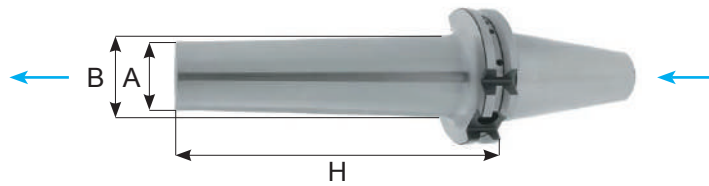
Mandrini di riduzione da TC a PSC - ECA ISO 26623-1

Adapters from TC shank to PSC - ECA ISO 26623-1


TCB-C4 / C5 / C6 / C8 / C10

CODICE	FAM	CONO	RIDUTTORE	FORMA	H	EUR
TCB40.H30.C4	3	TC40	PSC-C4	AD+B	30	
TCB50.H30.C4		TC50			30	
TCB40.H40.C5		TC40	PSC-C5		40	
TCB50.H30.C5		TC50			30	
TCB40.H85.C6		TC40	PSC-C6		85	
TCB50.H50.C6		TC50			50	
TCB50.H70.C8		TC50	PSC-C8		70	
TCB50.H140.C10		TC50	PSC-C10		140	

Portafrese con filetto con passaggio del refrigerante
 Tool holder for screwed milling cutters with coolant thru


TCB40

CODICE	FAM	M	FORMA	H	A	B	*Nm	EUR			
TCB40.H44.M8CPY	1-11	M8	AD+B	44	13	15	25				
TCB40.H69.M8CPY				69		23					
TCB40.H95.M8CPY				95		23					
TCB40.H115.M8CPY				115		25					
TCB40.H44.M10CPY		M10		44	20	18	28	40			
TCB40.H69.M10CPY				69	25						
TCB40.H95.M10CPY				95	28						
TCB40.H115.M10CPY				115	28						
TCB40.H145.M10CPY		M12		145	34	21	31	60			
TCB40.H44.M12CPY				44	24						
TCB40.H69.M12CPY				69	24						
TCB40.H95.M12CPY				95	31						
TCB40.H115.M12CPY		M16		115	31	29	39	80			
TCB40.H145.M12CPY				145	38						
TCB40.H175.M12CPY				175	42						
TCB40.H44.M16CPY				44	34				11	32	60
TCB40.H69.M16CPY	69	34									
TCB40.H95.M16CPY	95	34									
TCB40.H115.M16CPY	115	39									
TCB40.H145.M16CPY	M16	145	39	29	36	80					
TCB40.H175.M16CPY		175	39								
TCB50.H85.M10CPY		11	M10				85	18	28	40	
TCB50.H135.M10CPY							135		28		
TCB50.H185.M10CPY	185			32							
TCB50.H85.M12CPY	85			32	60						
TCB50.H135.M12CPY	135	32									
TCB50.H185.M12CPY	185	40									
TCB50.H85.M16CPY	85	34	80								
TCB50.H135.M16CPY	135	36									
TCB50.H185.M16CPY	185	42.5									

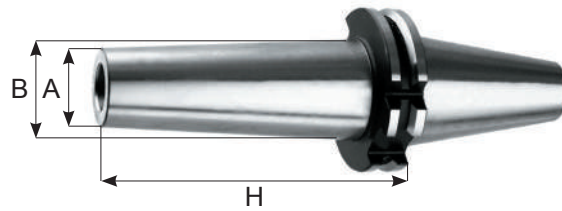
* Nm = Forza di serraggio consigliata
 Recommended tightening torque

Coppia di serraggio per frese filettate
 Recommended tightening torque for screwed mills

FILETTO / THREAD	Nm
M8	25
M10	40
M12	60
M16	80

Portafrese con filetto antivibrazione

Antivibratory for frontal end mills support screwed shanks


TC40 / 50
ANTIVIBRAZIONE

CODICE	FAM	M	FORMA	H	A	B	EUR	
TC40.H200.M10AV	13	M10	AD	200	18	35		
TC40.H250.M10AV				250		40		
TC40.H300.M10AV				300		45		
TC40.H200.M12AV		M12		200	21	38		
TC40.H250.M12AV				250		43		
TC40.H300.M12AV				300		44		
TC40.H200.M16AV		M16		200	29	43		
TC40.H250.M16AV				250		44		
TC40.H300.M16AV				300		47		
TC50.H250.M12AV		13		M12	250	21	42	
TC50.H300.M12AV					300		47	
TC50.H400.M12AV				M16	400	29	57	
TC50.H250.M16AV					250		50	
TC50.H300.M16AV					300		55	
TC50.H400.M16AV					400		65	
TC50.H500.M16AV					500		76	

Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.

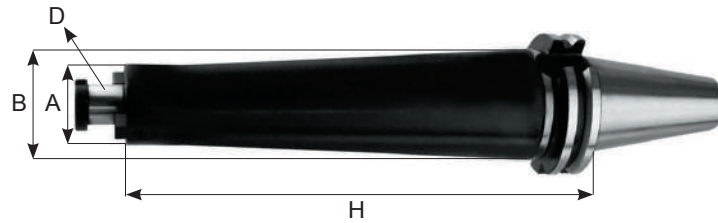
Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

Momento di serraggio consigliato

Recommended tightening torque for screwed mills

FILETTO / THREAD	Nm
M8	25
M10	40
M12	60
M16	80

Portafrese fisso antivibrazione con conicità DIN/138
Antivibratory shell mill adaptors DIN/138



TC40

ANTIVIBRAZIONE

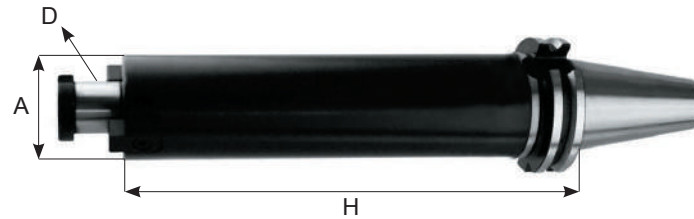
CODICE	FAM	D	FORMA	H	A	B	EUR				
TC40.H150.D16AV	13	16	AD	150	38	50					
TC40.H200.D16AV				200							
TC40.H250.D16AV				250							
TC40.H300.D16AV				300							
TC40.H150.D22AV				22			150	44	80		
TC40.H200.D22AV							200				
TC40.H250.D22AV		250									
TC40.H300.D22AV		300									
TC50.H150.D16AV		13			16	150	38			80	
TC50.H200.D16AV						200					
TC50.H250.D16AV				250							
TC50.H300.D16AV				300							
TC50.H400.D16AV	400										
TC50.H200.D22AV	22		200	48		80					
TC50.H250.D22AV			250								
TC50.H300.D22AV			300								
TC50.H400.D22AV			400								
TC50.H500.D22AV			500								
TC50.H200.D27AV			27		200		60	80			
TC50.H250.D27AV	250										
TC50.H300.D27AV	300										
TC50.H400.D27AV	400										
TC50.H500.D27AV	500										

Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.

Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

Portafrese fisso antivibrazione DIN/138

Antivibratory shell mill adaptors DIN/138



TC40 / 50

ANTIVIBRAZIONE

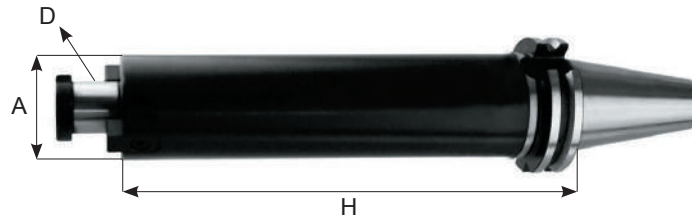
CODICE	FAM	D	H	A	EUR		
TC40.H150.D16AV-38	13	16	150	38			
TC40.H200.D16AV-38			200				
TC40.H250.D16AV-38			250				
TC40.H300.D16AV-38			300				
TC40.H150.D22AV-48		22	22	150	48		
TC40.H200.D22AV-48				200			
TC40.H250.D22AV-48				250			
TC40.H300.D22AV-48			300				
TC40.H150.D27AV-54		27	27	150	54		
TC40.H200.D27AV-54				200			
TC40.H250.D27AV-54				250			
TC40.H300.D27AV-54			300				
TC50.H150.D16AV-38		13	16	150	38		
TC50.H200.D16AV-38				200			
TC50.H250.D16AV-38				250			
TC50.H300.D16AV-38				300			
TC50.H400.D16AV-38				400			
TC50.H200.D22AV-48			22	22	200	48	
TC50.H250.D22AV-48					250		
TC50.H300.D22AV-48					300		
TC50.H400.D22AV-48				400			
TC50.H500.D22AV-48				500			
TC50.H200.D22AV-60			22	22	200	60	
TC50.H250.D22AV-60					250		
TC50.H300.D22AV-60					300		
TC50.H400.D22AV-60				400			
TC50.H500.D22AV-60				500			

Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.

Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

Portafrese fisso antivibrazione DIN/138

Antivibratory shell mill adaptors DIN/138



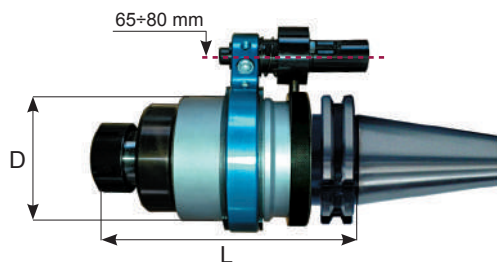
TC50

ANTIVIBRAZIONE

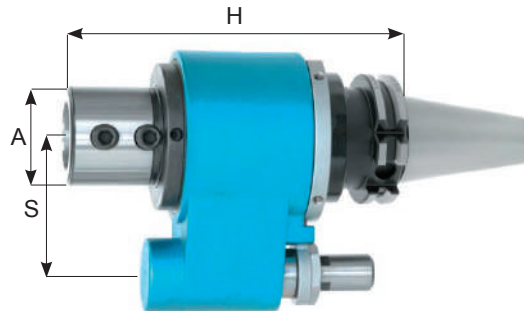
CODICE	FAM	D	H	A	EUR	
TC50.H200.D27AV-60	13	27	200	60		
TC50.H250.D27AV-60			250			
TC50.H300.D27AV-60			300			
TC50.H400.D27AV-60			400			
TC50.H500.D27AV-60			500			
TC50.H200.D32AV-76		32	32	200	76	
TC50.H250.D32AV-76				250		
TC50.H300.D32AV-76				300		
TC50.H400.D32AV-76				400		
TC50.H500.D32AV-76				500		

Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.

Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

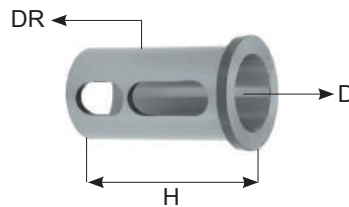
Mandrini reversibili per CNC
 Reversing tapping attachment CNC

TC40 / 50

CODICE	FAM	CONO	TIPO	CAP	D	L	BAR	RPM	EUR
TC40-ER20-L160	1	TC40	ER20	1 ÷ 14	67	160	7 max	3000 max	
TC40-ER25-L160			ER25	1 ÷ 20	75				
TC40-ER32-L160			ER32	2 ÷ 22	90				
TC50-ER20-L160		TC50	ER20	1 ÷ 14	67				
TC50-ER25-L160			ER25	1 ÷ 20	75				
TC50-ER32-L160			ER32	2 ÷ 22	90				

Distributore rotante per refrigerazione attacchi cilindrici
 Rotary coolant feeder

TC40 / 50

CODICE	FAM	S	FORMA	H	A	EUR
TC40-DR32	1	65	AD	165	49.5	
TC50-DR40		80		170	56	

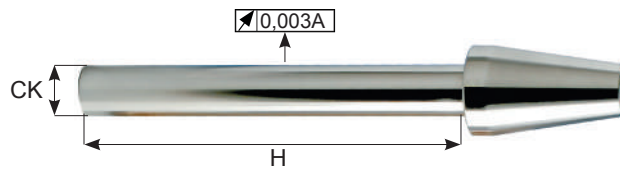
CARATTERISTICHE	S
Giro Max / Max rpm	3.500
Precisione del refrigerante	Max 20 bar
Coolant Pressure	Min 2 bar

Pinze per distributore rotante di refrigerazione
 Collet for Rotary coolant feeder


CODICE	FAM	D	DR	H	EUR
E2-1.32-16	1	16	32	70	
E2-1.32-20		20			
E2-1.32-25		25			
E2-1.40-16		16	40	80	
E2-1.40-20		20			
E2-1.40-25		25			
E2-1.40-32		32			

Barre di controllo con certificato DIN/69871

Test arbor with accuracy certificate DIN/69871

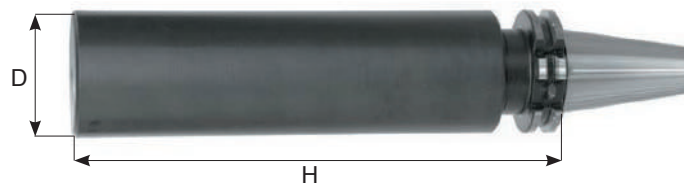


TC30 / 40 / 50

CODICE	FAM	CK	FORMA	H	EUR
TC30.H237.CK32	1	32	AD	237	
TC40.H335.CK40		40		335	
TC50.H340.CK50		50		340	

Barre tenere DIN/69871

Machinable blank Arbors DIN/69871

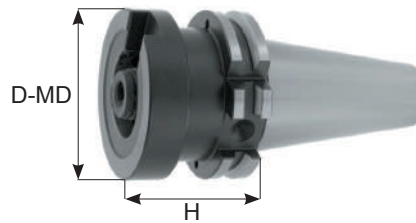


TC30 / 40 / 50

CODICE	FAM	D	FORMA	H	EUR
TC40.H250.D40BL	1	40	AD	250	
TC40.H250.D63BL		63		250	
TC50.H315.D63BL		63		315	
TC50.H315.D97BL		97		315	

Portapinze modulari sistema Varilock

Modular toll holders Varilock system



TCB40 / 50

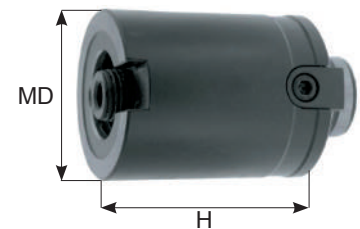
CODICE	FAM	D-MD	FORMA	H	EUR
TCB40.H27.D50MD	1	50	AD+B	27	
TCB40.H50.D50MD		50		50	
TCB40.H27.D63MD		63		27	
TCB40.H50.D63MD		63		50	
TCB50.H27.D50MD		50		27	
TCB50.H50.D50MD		50		50	
TCB50.H27.D63MD		63		27	
TCB50.H50.D63MD		63		50	
TCB50.H27.D80MD		80		27	
TCB50.H50.D80MD		80		50	

Adattatori modulari lunghi sistema Varilock

Modular extension adapters

MD50 / 63 / 80

CODICE	FAM	MD	H	EUR
MD50.H60.MD50	1	50	60	
MD50.H80.MD50		50	80	
MD50.H100.MD50		50	100	
MD63.H80.MD63		63	80	
MD63.H120.MD63		63	120	
MD80.H80.MD80		80	80	
MD80.H100.MD80		80	100	
MD80.H120.MD80		80	120	
MD80.H140.MD80		80	140	
MD80.H160.MD80		80	160	



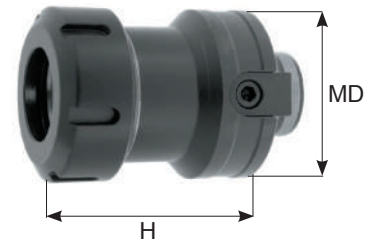
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Portapinze modulari sistema Varilock

Modular collet chuck adapters

MD50 / 63 / 80

CODICE	FAM	CAP	MD	H	EUR
MD50.H63.ERC20	1	1 ÷ 14	50	63	
MD50.H63.ERC25		1 ÷ 20	50	63	
MD50.H65.ERC32		2 ÷ 22	50	65	
MD63.H77.ERC32		2 ÷ 22	63	77	
MD63.H86.ERC40		3 ÷ 30	63	86	
MD80.H90.ERC40		3 ÷ 30	80	90	


Portafrese Weldon modulari sistema Varilock

Modular end mill adapters

MD50 / 63 / 80

CODICE	FAM	MD	H	D	EUR
MD50.H50.WE6	1	50	50	6	
MD50.H50.WE8			50	8	
MD50.H50.WE10			50	10	
MD50.H60.WE12			60	12	
MD50.H60.WE14			60	14	
MD50.H60.WE16			60	16	
MD50.H60.WE18			60	18	
MD50.H62.WE20			62	20	
MD50.H80.WE25			80	25	
MD63.H70.WE10			63	70	10
MD63.H70.WE12		70		12	
MD63.H70.WE14		70		14	
MD63.H70.WE16		70		16	
MD63.H70.WE18		70		18	
MD63.H70.WE20		70		20	
MD63.H80.WE25		80		25	
MD63.H80.WE32		80		32	
MD63.H90.WE40		90		40	
MD80.H70.WE16		80		70	16
MD80.H70.WE20			70	20	
MD80.H80.WE25			80	25	
MD80.H80.WE32			80	32	
MD80.H90.WE40			90	40	

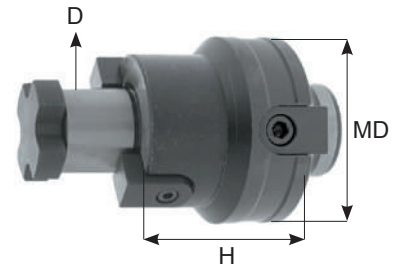


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Portafrese modulari sistema Varilock
Shell end mill holders Modular Adapters

MD50 / 63 / 80

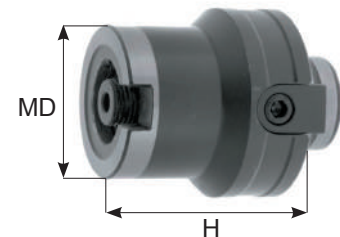
CODICE	FAM	MD	H	D	EUR
MD50.H30.D16S	1	50	30	16	
MD50.H20.D22S			20	22	
MD50.H20.D27S			20	27	
MD50.H25.D32S			25	32	
MD63.H30.D22S	12	63	30	22	
MD63.H30.D27S			30	27	
MD63.H30.D32S			30	32	
MD63.H30.D40S			30	40	
MD80.H30.D27S			30	27	
MD80.H30.D32S			30	32	
MD80.H30.D40S		80	30	40	



Riduttori modulari sistema Varilock
Modular Adapters

MD63 / 80

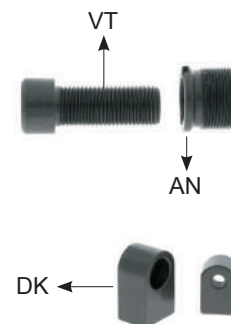
CODICE	FAM	MD	H	EUR
MD63.H60.MD50	12	50	60	
MD80.H80.MD63		63	80	



Ricambi
Spare parts

CODICE	FAM	EUR
AN-MD 50	1	
AN-MD 63-80		
VT-MD 50		
VT-MD 63-80		

CODICE	FAM	MD	EUR
DK-MD50	1	12x10x18.2	
DK-MD63-80		16x13x24	





**MANDRINI
ATTACCO DIN/2080**

TOOLHOLDERS
DIN/2080

8



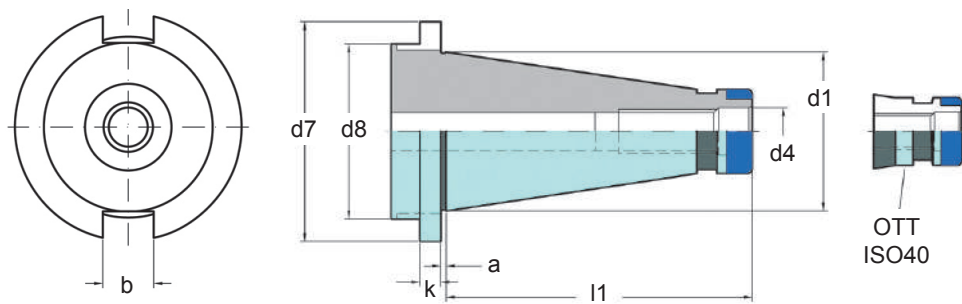
MANDRINI ATTACCO DIN/2080

TOOLHOLDERS DIN/2080

	MANDRINI A CAMBIO RAPIDO QUICK CHANGE TAPPING CHUCK	8A
	MANDRINI PORTAPINZE COLLET CHUCKS	8B
	MANDRINI PORTAFRESE WELDON END MILL HOLDERS FOR WELDON	8C
	MANDRINI PORTAFRESE FISSO SHELL AND MILL HOLDERS	8D
	MANDRINI PORTAFRESE COMBINATO COMBI SHELL END MILL HOLDERS	8E
	MANDRINI PORTAPUNTE DRILL CHUCKS	8F
	MANDRINI RIDUTTORI CONO MORSE MORSE TAPPER ADAPTERS	8G
	MANDRINI PORTAPINZE EOC COLLET CHUCKS EOC	8H
	MANDRINI FORTE SERRAGGIO POWER MILLIN CHUCKS	

Tabella tecnica

Technical table



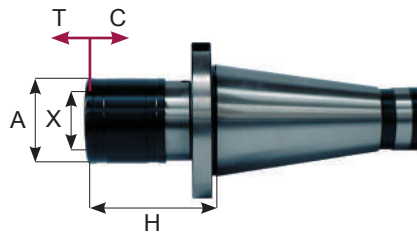
CONO	FORMA	d1	d4	a	b	l1	d7	k	d8
ISO30	AD	31.75	M12	1.6	16.1	68.4	50	8	36
ISO40 *	AD	44.45	M16	1.6	16.1	93.4	63	10	50
ISO50	AD	69.85	M24	3.2	25.7	126.8	97.5	12	78

* ISO 40 con scanalatura MAHO-OTT

ISO 40 with MAHO-OTT groove

Mandrini con compressione e trazione DIN/2080

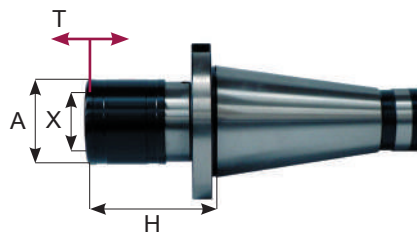
Tension and compression tap holders DIN/2080


ISO30 / 40 / 50

CODICE	CAP	X	A	H	T	C	EUR
SK30-THTC1-L58	M3 ÷ M12	19	36	58	7.5	7.5	
SK40-THTC1-L51				51			
SK50-THTC1-L59				59			
SK40-THTC2-L77	M8 ÷ M20	31	53	77	12.5	12.5	
SK50-THTC2-L79				79			
SK40-THTC3-L142	M14 ÷ M33	48	78	142	20	20	
SK50-THTC3-L129				129			
SK40-THTC4-L157	M22 ÷ M48	60	96	157	22.5	22.5	
SK50-THTC4-L143				143			

Mandrini con solo trazione DIN/2080

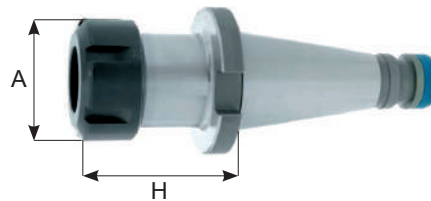
Tension and compression tap holders DIN/2080


ISO30 / 40 / 50

CODICE	CAP	X	A	H	T	C	EUR
SK30-THT1-L58	M3 ÷ M12	19	36	58	7.5	0	
SK40-THT1-L51				51			
SK50-THT1-L59				59			
SK40-THT2-L77	M8 ÷ M20	31	53	77	12.5	0	
SK50-THT2-L79				79			
SK40-THT3-L142	M14 ÷ M33	48	78	142	20	0	
SK50-THT3-L129				129			
SK40-THT4-L157	M22 ÷ M48	60	96	157	22.5	0	
SK50-THT4-L143				143			

Portapinze con ghiera STANDARD

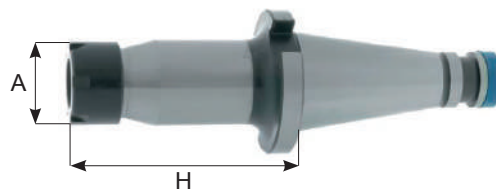
Collet chucks ER STANDARD nut


ISO30 / 40 / 50

CODICE	FAM	GAP	FORMA	H	A	EUR
ISO30.H50.ERC25	1	1 ÷ 20	AD	50	42	
ISO30.H70.ERC25				70		
ISO30.H50.ERC32		2 ÷ 22		50	50	
ISO30.H70.ERC32				70		
ISO30.H100.ERC32				100		
ISO30.H70.ERC40		3 ÷ 30		70	63	
ISO30.H84.ERC40				84		
ISO30.H100.ERC40				100		
ISO40.H50.ERC16		1 ÷ 10		50	28	
ISO40.H70.ERC16				70		
ISO40.H100.ERC16				100		
ISO40.H50.ERC20		1 ÷ 14		50	34	
ISO40.H70.ERC20				70		
ISO40.H100.ERC20				100		
ISO40.H50.ERC25		1 ÷ 20		50	42	
ISO40.H70.ERC25				70		
ISO40.H100.ERC25				100		
ISO40.H130.ERC25				130		
ISO40.H50.ERC32				2 ÷ 22		50
ISO40.H70.ERC32		70				
ISO40.H100.ERC32		100				
ISO40.H130.ERC32		3 ÷ 30		130	63	
ISO40.H56.ERC40				56		
ISO40.H70.ERC40				70		
ISO40.H100.ERC40				100		
ISO40.H130.ERC40				130		
ISO40.H160.ERC40				160		
ISO40.H200.ERC40				200		
ISO40.H100.ERC50		6 ÷ 34		100	78	
ISO50.H70.ERC16		1 ÷ 10		70	28	
ISO50.H100.ERC16				100		
ISO50.H130.ERC16				130		
ISO50.H70.ERC20		1 ÷ 14		70	34	
ISO50.H100.ERC20				100		
ISO50.H130.ERC20				130		
ISO50.H70.ERC25		1 ÷ 20		70	42	
ISO50.H100.ERC25				100		
ISO50.H130.ERC25				130		
ISO50.H100.ERC32		2 ÷ 22		100	50	
ISO50.H130.ERC32				130		
ISO50.H160.ERC32				160		
ISO50.H70.ERC40		3 ÷ 30		70	63	
ISO50.H100.ERC40				100		
ISO50.H130.ERC40				130		
ISO50.H160.ERC40				160		
ISO50.H67.ERC50		6 ÷ 34		67	78	

Portapinze con ghiera MINI

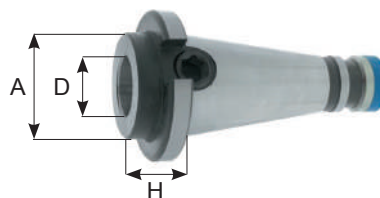
Collet chucks ER MINI nut


ISO30 / 40

CODICE	FAM	CAP	FORMA	H	A	EUR
ISO30.H100.ERC8M	1	1 ÷ 5	AD	100	12	
ISO30.H100.ERC11M		1 ÷ 7			16	
ISO30.H100.ERC16M		1 ÷ 10			22	
ISO30.H100.ERC20M		1 ÷ 14			28	
ISO30.H100.ERC25M		1 ÷ 20			35	
ISO40.H100.ERC11M		1 ÷ 7			16	
ISO40.H100.ERC16M		1 ÷ 10			22	
ISO40.H100.ERC20M		1 ÷ 14			28	
ISO40.H100.ERC25M		1 ÷ 20			35	

Portafrese Weldon extra corto DIN/1835-B

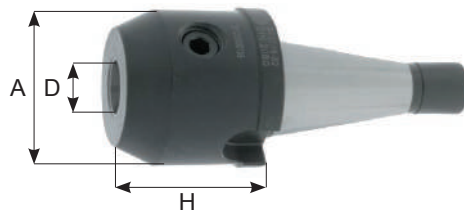
Short type end mill holders for DIN/1835-B shanks


ISO40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
ISO40.H22.WE16	1	16	AD	22	48	
ISO40.H22.WE20		20				
ISO40.H22.WE25		25				
ISO40.H40.WE32	2	32		20	66	
ISO50.H20.WE16		16				
ISO50.H20.WE20		20				
ISO50.H20.WE25		25				
ISO50.H20.WE32	32					

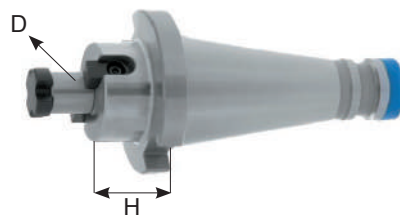
Portafrese Weldon DIN/1835-B

End mill holders for DIN/1835-B


ISO30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
ISO30.H40.WE6	1	6	AD	40	25	
ISO30.H40.WE8		8		40	28	
ISO30.H40.WE10		10		40	35	
ISO30.H40.WE12		12		40	42	
ISO30.H40.WE14		14		40	44	
ISO30.H50.WE16		16		50	48	
ISO30.H50.WE18		18		50	50	
ISO30.H63.WE20		20		63	52	
ISO30.H85.WE25		25		85	65	
ISO40.H50.WE6		6		50	25	
ISO40.H50.WE8		8		50	28	
ISO40.H50.WE10		10		50	35	
ISO40.H50.WE12		12		50	42	
ISO40.H50.WE14		14		50	44	
ISO40.H60.WE16		16		60	48	
ISO40.H65.WE18		18		65	50	
ISO40.H65.WE20		20		65	52	
ISO40.H80.WE25		25		80	65	
ISO40.H80.WE32		32		80	72	
ISO40.H90.WE40		40		90	90	
ISO50.H63.WE6		6		63	25	
ISO50.H63.WE8		8		63	28	
ISO50.H63.WE10		10		63	35	
ISO50.H63.WE12		12		63	42	
ISO50.H63.WE14		14		63	44	
ISO50.H63.WE16		16		63	48	
ISO50.H63.WE18		18		63	50	
ISO50.H63.WE20		20		63	52	
ISO50.H80.WE25		25		80	65	
ISO50.H80.WE32		32		80	72	
ISO50.H90.WE40		40		90	90	
ISO50.H110.WE50		50		110	100	

Portafrese fisso
Shell end mill holders



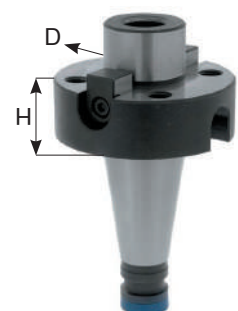
ISO30 / 40 / 50

CODICE	FAM	D	FORMA	H	EUR		
ISO30.H35.D16S	1	16	AD	35			
ISO30.H35.D22S		22					
ISO30.H35.D27S		27					
ISO30.H35.D32S		32					
ISO40.H30.D16S				16		30	
ISO40.H100.D16S						100	
ISO40.H35.D22S						35	
ISO40.H52.D22S				22		52	
ISO40.H100.D22S						100	
ISO40.H35.D27S						35	
ISO40.H100.D27S				27		100	
ISO40.H35.D32S							
ISO40.H35.D40S				32		35	
ISO40.H100.D40S				40		100	
ISO50.H45.D16S				16		45	
ISO50.H100.D16S						100	
ISO50.H125.D16S						125	
ISO50.H45.D22S						45	
ISO50.H100.D22S				22		100	
ISO50.H125.D22S						125	
ISO50.H45.D27S						45	
ISO50.H100.D27S				27		100	
ISO50.H125.D27S						125	
ISO50.H45.D32S						45	
ISO50.H100.D32S				32		100	
ISO50.H125.D32S						125	
ISO50.H45.D40S						45	
ISO50.H100.D40S				40		100	
ISO50.H125.D40S						125	

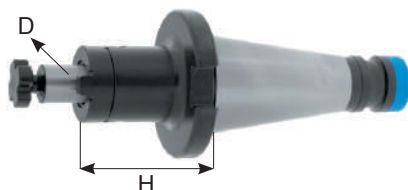
Portafrese fisso maggiorato
Face mill holders

ISO40 / 50

CODICE	FAM	D	FORMA	H	EUR
ISO40.H35.D40FM	1	40	AD	35	
ISO40.H30.D60FM	2	60		30	
ISO50.H45.D40FM	1	40		45	
ISO50.H55.D60FM		60		55	



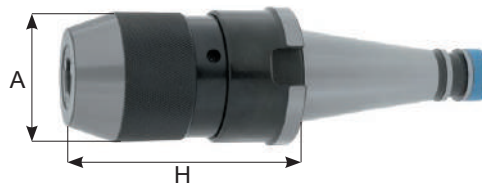
Portafrese combinato
 Combi shell end mill holders


ISO30 / 40 / 50

CODICE	FAM	D	FORMA	H	EUR
ISO30.H50.D16C	1	16	AD	50	
ISO30.H50.D22C		22			
ISO30.H50.D27C		27			
ISO30.H50.D32C		32			
ISO40.H52.D16C		16			52
ISO40.H52.D22C		22		52	
ISO40.H100.D22C		22		100	
ISO40.H52.D27C		27		52	
ISO40.H90.D27C		27		90	
ISO40.H52.D32C		32		52	
ISO40.H100.D32C		32		100	
ISO40.H52.D40C		40		52	
ISO50.H55.D16C		16		55	
ISO50.H100.D16C		16		100	
ISO50.H125.D16C		16		125	
ISO50.H55.D22C		22		55	
ISO50.H100.D22C		22		100	
ISO50.H125.D22C		22		125	
ISO50.H55.D27C		27		55	
ISO50.H100.D27C		27		100	
ISO50.H125.D27C		27		125	
ISO50.H55.D32C		32		55	
ISO50.H100.D32C		32		100	
ISO50.H125.D32C		32		125	
ISO50.H55.D40C		40		55	
ISO50.H100.D40C		40		100	
ISO50.H125.D40C		40		125	

Portapunte con chiavi a gancio

Drill chucks with hook wrench



ISO40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
ISO40.H88.DCK13	1	1 ÷ 13	AD	88	50	
ISO40.H100.DCK16		3 ÷ 16		100	58	
ISO50.H80.DCK13		1 ÷ 13		80	50	
ISO50.H90.DCK16		3 ÷ 16		90	58	

Ricambi Portapunte con chiavi a gancio

Replacement drill chuck heads

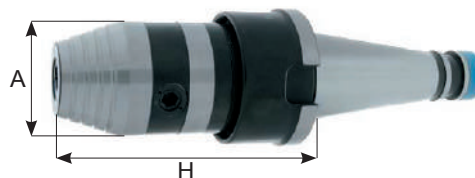
DCK

CODICE	FAM	CAP	EUR
DCK13.MT3S	1	1 ÷ 13	
DCK16-MT3S		3 ÷ 16	



Portapunte a forte serraggio con chiavi esagonali

Exagonal key lockc drill chucks



ISO40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
ISO40.H105.CP13	1	1 ÷ 13	AD	105	50	
ISO40.H110.CP16		3 ÷ 16		110	58	
ISO50.H98.CP13		1 ÷ 13		98	50	
ISO50.H103.CP16		3 ÷ 16		103	58	

Ricambi Portapunte a forte serraggio con chiavi esagonali

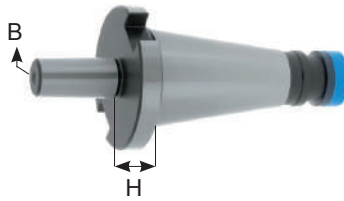
Replacement drill chuck heads

CP

CODICE	FAM	CAP	EUR
CP13.MT3	1	1 ÷ 13	
CP16.MT3		3 ÷ 16	



Mandrini porta punta
Drill chuck Arbors

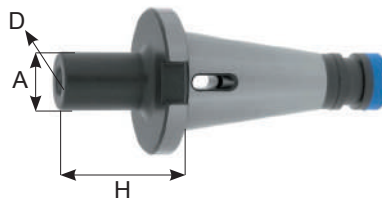


ISO30 / 40 / 50

CODICE	FAM	DIN	B	H	EUR
ISO30.H15.B12	1	DIN/238	B12	15	
ISO30.H15.B16			B16	15	
ISO40.H17.B12			B12	17	
ISO40.H17.B16			B16	17	
ISO40.H17.B18			B18	17	
ISO50.H20.B16			B16	20	
ISO50.H20.B18			B18	20	

Riduttori con morse DIN/228-B per punte

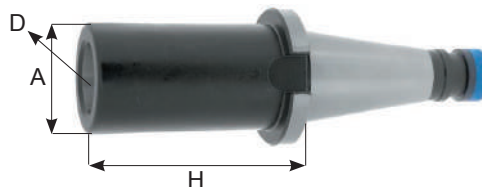
Morse taper adapters DIN/228-B


ISO30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
ISO30.H50.CM1P	1	CM1	AD	50	25	
ISO30.H50.CM2P		CM2		50	32	
ISO30.H72.CM3P		CM3		72	40	
ISO40.H50.CM1P		CM1		50	25	
ISO40.H50.CM2P		CM2		50	32	
ISO40.H65.CM3P		CM3		65	40	
ISO40.H95.CM4P		CM4		95	48	
ISO50.H60.CM2P		CM2		60	32	
ISO50.H65.CM3P		CM3		65	40	
ISO50.H133.CM3P		CM3		133	40	
ISO50.H70.CM4P		CM4		70	48	
ISO50.H163.CM4P		CM4		163	48	
ISO50.H105.CM5P		CM5		105	63	
ISO50.H193.CM5P		CM5		193	63	

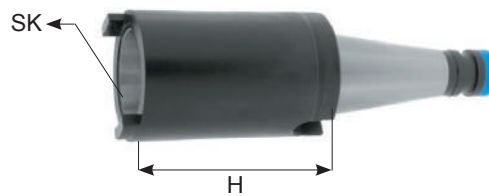
Riduttori con morse DIN/228-A per Frese

Reducing adaptors morse taper DIN/228-A for Threaded Mills


ISO30 / 40 / 50

CODICE	FAM	D	FORMA	H	A	EUR
ISO30.H50.CM1FV	1	CM1	AD	50	25	
ISO30.H50.CM2FV		CM2		50	32	
ISO30.H78.CM3FV		CM3		78	40	
ISO40.H50.CM1FV		CM1		50	25	
ISO40.H50.CM2FV		CM2		50	32	
ISO40.H65.CM3FV		CM3		65	40	
ISO40.H95.CM4FV		CM4		95	48	
ISO50.H60.CM1FV		CM1		60	25	
ISO50.H60.CM2FV		CM2		60	32	
ISO50.H115.CM2FV		CM2		115	25	
ISO50.H165.CM2FV		CM2		165	25	
ISO50.H65.CM3FV		CM3		65	40	
ISO50.H165.CM3FV				165	32	
ISO50.H65.CM4FV		CM4		65	48	
ISO50.H165.CM4FV				165	40	
ISO50.H120.CM5FV		CM5		120	63	

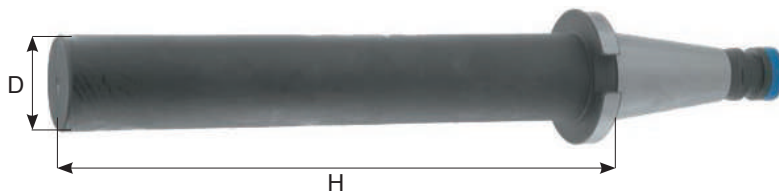
Riduzioni da ISO a ISO DIN/2080
Reducing adaptors ISO a ISO DIN/2080



ISO40 / 50

CODICE	FAM	ISO	FORMA	H	M	EUR
ISO40.H50.SK30	1	SK30	AD	50	M12	
ISO40.H85.SK40		SK40		85	M16	
ISO50.H16.SK30		SK30		16	M12	
ISO50.H16.SK40		SK40		16	M16	
ISO50.H60.SK40		SK40		60	M16	
ISO50.H115.SK50		SK50		115	M24	

Barre tenere DIN/2080
Machinable blank Arbors DIN/2080

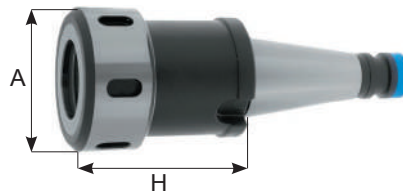


ISO40 / 50

CODICE	FAM	D	FORMA	H	EUR
ISO40.H250.D40BL	1	40	AD	250	
ISO50.H315.D97BL		97		315	

Portapinze per pinze EOC DIN/6388 B

Collet chucks EOC DIN/6388 B

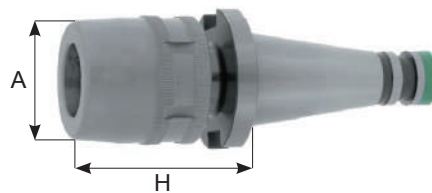


ISO30 / 40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
ISO40.H55.EOC16	1	2 ÷ 16	AD	55	43	
ISO40.H66.EOC25		2 ÷ 25		66	60	
ISO40.H95.EOC32		3 ÷ 32		95	72	
ISO50.H57.EOC25		2 ÷ 25		57	60	
ISO50.H73.EOC32		3 ÷ 32		73	72	

Portapinze a forte serraggio per pinze cilindriche

Power milling chucks



ISO30 / 40 / 50

CODICE	FAM	CAP	FORMA	H	A	EUR
ISO40.H100.MC32	1	3 ÷ 32	AD	100	74	
ISO50.H100.MC32		3 ÷ 32		100	74	

Kit mandrino portapinze

Kit ER toothholder

CODICE	FAM	CAPACITÀ	EUR
BX.ISO40.MC32	1	Pinza 3SR32	
BX.ISO50.MC32		6 . 8 . 10 . 12 . 16 . 20 . 25	


















**MANDRINI ATTACCO HSK
FORMA - A / C / E / F**

TOOLHOLDERS
HKS FORM - A / C / E / F

9

MANDRINI ATTACCO HSK FORMA - A / C / E / F

TOOLHOLDERS HKS FORM - A / C / E / F

	MANDRINI CAMBIO RAPIDO QUICK CHANGE TAPPING CHUCK	9A-1
	MANDRINI A CAMBIO RAPIDO PASSAGGIO DEL REFRIGERANTE QUICK CHANGE TAPPING CHUCK WITH COOLANT THRU	
	SYNCR0 PORTAPINZE SYNCR0 COLLET CHUCK	9A-2
	SYNCR0 CAMBIO RAPIDO SYNCR0 QUICK CHANGE	
	MANDRINI RIGIDI RIGID TAPPING CHUCK	9A-3
	MANDRINI RIGIDI PASSAGGIO DEL REFRIGERANTE RIGID TAP HOLDER WITH COOLANT THRU	
	MANDRINI IDRAULICI HYDRAULIC CHUCKS	9A-4
	MANDRINI PORTAPINZE COLLET CHUCK	9A-5
	MANDRINI PORTAFRESE WELDON END MILL HOLDERS FOR WELDON	9A-6
	MANDRINI PORTAFRESE COMBINATO COMBI SHELL END MILL HOLDERS	9A-7
	MANDRINO PORTAFRESE FISSO SHELL END MILL HOLDERS	9A-8
	MANDRINI PORTAFRESE CON FILETTO TOOLHOLDERS FOR SCREWED MILLING CUTTERS	9A-9
	MANDRINI RIDUZIONI CONO MORSE MORSE TAPPER ADAPTERS	9A-10

MANDRINI ATTACCO HSK FORMA - A / C / E / F

TOOLHOLDERS HKS FORM - A / C / E / F



MANDRINI PORTA PINZE ALTA VELOCITÀ
COLLET CHUCKS HIGH SPEED

9A-11



MANDRINI PORTA PINZE EOC
COLLET CHUCKS EOC

9A-12



MANDRINI FORTE SERRAGGIO
POWER MILLING CHUCKS



MANDRINI PORTA PINZE RADIALI
RADIAL ADJUSTABLE COLLET CHUCKS

9A-13



MANDRINI PORTAPUNTE
DRILL CHUCKS



MANDRINI RIDUZIONI HSK / PCS
REDUCING ADAPTERS TO HSK / PCS

9A-14



MANDRINI A CALETTAMENTO
SHRINK FIT HOLDERS

9A-15



MANDRINI VARILOCK
TOOLHOLDERS VARILOCK

9A-16



ADATTATORI VARILOCK
VARILOCK ADAPTERS



MANDRINI IDRAULICI
HYDRAULIC CHUCKS

9C-1



MANDRINI A CAMBIO RAPIDO
QUICK CHANGE TAPPING CHUCK

9E-1



MANDRINI RIGIDI
RIGID TAPPING CHUCK















MANDRINI PORTAPINZE
COLLET CHUCK

9E-2

MANDRINI ATTACCO HSK FORMA - A / C / E / F

TOOLHOLDERS HKS FORM - A / C / E / F

	MANDRINI PORTAFRESE WELDON END MILL HOLDERS FOR WELDON	9E-3
	MANDRINO PORTAFRESE FISSO SHELL END MILL HOLDERS	9E-4
	MANDRINI RIDUZIONI CONO MORSE MORSE TAPPER ADAPTERS	9E-5
	MANDRINI IDRAULICI HYDRAULIC CHUCKS	9E-6
	MANDRINI A CALETTAMENTO SHRINK FIT HOLDERS	9E-7
	MANDRINI CAMBIO RAPIDO QUICK CHANGE TAPPING CHUCK	9F-1
	MANDRINI PORTAPINZE COLLET CHUCKS	9F-2
	MANDRINI IDRAULICI HYDRAULIC CHUCKS	9F-3
	MANDRINI PORTAFRESE WELDON END MILL HOLDERS FOR WELDON	9F-4
	MANDRINI PORTAFRESE COMBINATO COMBI SHELL END MILL HOLDERS	9F-5
	MANDRINI PORTAPUNTE DRILL CHUCKS	9F-6
	MANDRINI RIDUZIONI CONO MORSE MORSE TAPPER ADAPTERS	9F-6

MANDRINI ATTACCO HSK FORMA - A / C / E / F

TOOLHOLDERS HKS FORM - A / C / E / F



MANDRINI A CALETTAMENTO
SHRINK FIT HOLDERS

9F-7



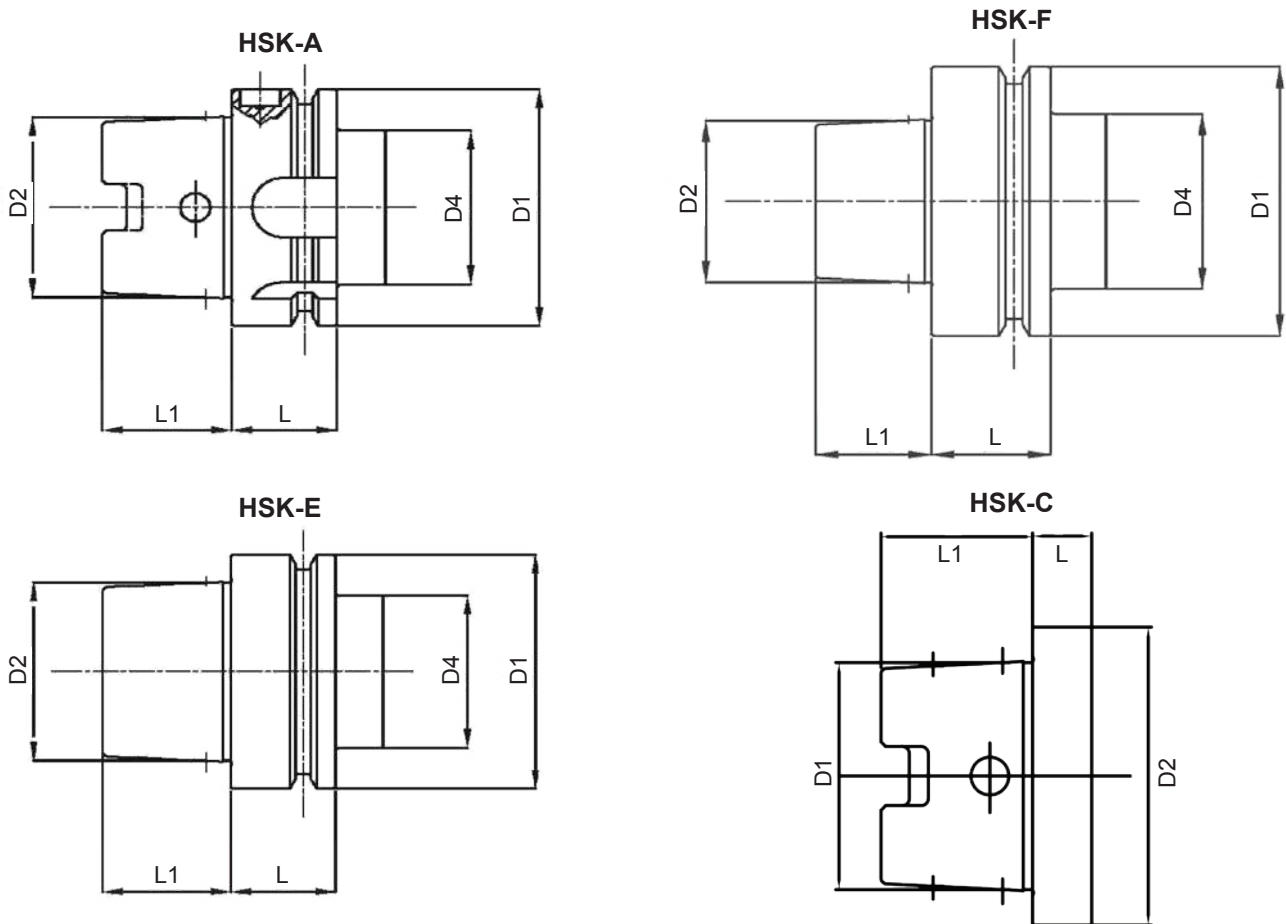
BARRE TENERE
BLANK ARBORS

9F-8



BARRE DI CONTROLLO
TEST ARBOR

Tabella tecnica
Technical table



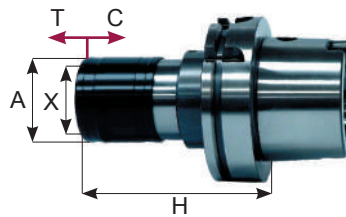
FORMA	D1	D2	L	L1	D4
HSK-A	32	24	35	16	26
	40	30	35	20	34
	50	38	42	25	42
	63	48	42	32	53
	80	60	42	40	67
	100	75	42	50	85

FORMA	D1	D2	L	L1
HSK-C	19	25	10	13
	24	32	10	16
	30	40	10	20
	38	50	12.5	25
	48	63	12.5	32

FORMA	D1	D2	L	L1
HSK-E	25	19	10	13
	32	13	20	16
	40	10	20	20
	50	24	26	25
	63	16	26	32

FORMA	D1	D2	L	L1
HSK-F	40	24	20	16
	50	30	26	20
	63	38	26	25

Mandrini con compressione e trazione
Tension and compression tap holders



HSK-A 50 / 63 / 80 / 100

CODICE	CAP	X	A	H	T	C	EUR
HSK50A-THTC1-L80	M3 ÷ M12	19	36	80	7.5	7.5	
HSK63A-THTC1-L80				80			
HSK80A-THTC1-L80				80			
HSK100A-THTC1-L82				82			
HSK50A-THTC2-L120	M8 ÷ M20	31	53	120	12.5	12.5	
HSK63A-THTC2-L120				120			
HSK80A-THTC2-L112				112			
HSK100A-THTC2-L112				112			
HSK63A-THTC3-L164	M14 ÷ M33	48	78	164	20	20	
HSK80A-THTC3-L164				164			
HSK100A-THTC3-L162				162			

Disponibile anche solo trazione / Also available only tension

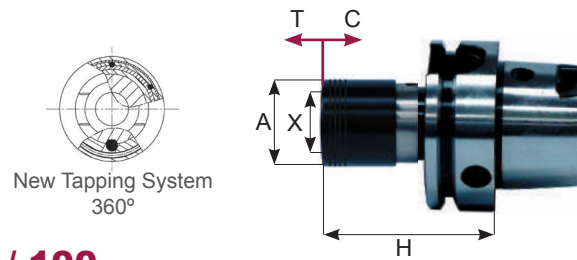
Mandrini con compressione e trazione con passaggio refrigerante
Quick-change tapping chuck with compensation
in compression and tension with coolant thru



HSK-A 63 / 100

CODICE	CAP	ATTACCO	L	X	A	T	C	EUR
HSK63A-THTC1-L125C	M3 ÷ M12	HSK63	125	19	40	7	3	
HSK63A-THTC2-L162C	M8 ÷ M20		162	31	56	10	7	
HSK100A-THTC1-L130C	M3 ÷ M12	HSK100	130	19	40	7	3	
HSK100A-THTC2-L160C	M8 ÷ M20		160	31	56	10	7	
HSK100A-THTC3-L245C	M14 ÷ M33		245	48	75	18	13	

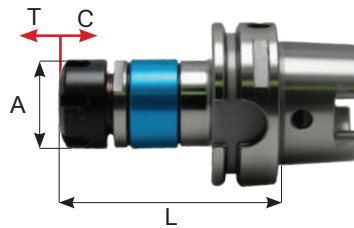
Mandrini con compressione e trazione - 360°
Tension and compression tap holders - 360°



HSK-A 50 / 63 / 80 / 100

CODICE	CAP	X	D	L	T	C	EUR
HSK50A-GCTC1-L72	M3 ÷ M12	19	39	72	7.5	7.5	
HSK63A-GCTC1-L72				72			
HSK80A-GCTC1-L75				75			
HSK100A-GCTC1-L80				80			
HSK50A-GCT1-L64.5				12.5	0	64.5	
HSK63A-GCT1-L64.5	64.5						
HSK80A-GCT1-L67.5	67.5						
HSK100A-GCT1-L72.5	72.5						
HSK50A-GCTC2-L110	M8 ÷ M20	31	60	110	10	10	
HSK63A-GCTC2-L110				110			
HSK80A-GCTC2-L95				95			
HSK100A-GCTC2-L100				100			
HSK50A-GCT2-L100				16.5	0	100	
HSK63A-GCT2-L100	100						
HSK80A-GCT2-L85	85						
HSK100A-GCT2-L90	90						
HSK63A-GCTC3-L141	M14 ÷ M33	48	86	141	17.5	17.5	
HSK80A-GCTC3-L141				141			
HSK100A-GCTC3-L144				144			
HSK63A-GCT3-L123.5				35	0	123.5	
HSK80A-GCT3-L123.5						123.5	
HSK100A-GCT3-L126.5	126.5						

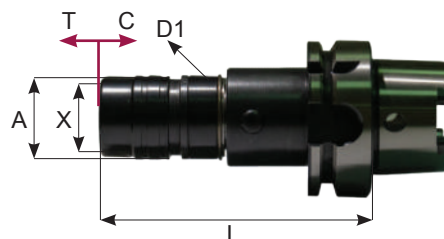
SYER - Mandrino a micro-compensazione assiale in compressione e trazione
SYER - Quick-change tapping chuck with micro-compensation in compression and tension



HSK-A / 63 / 100

CODICE	CONO	T	C	CAP	ER	A	L	EUR
HSK63A-SYER16M-L89	HSK A 63	0.5	0.5	1 ÷ 10	16M	22	89	
HSK63A-SYER16-L89				1 ÷ 10	16	28	89	
HSK63A-SYER20-L90				1 ÷ 14	20	34	90	
HSK63A-SYER25-L94				1 ÷ 20	25	42	94	
HSK63A-SYER32-L105				2 ÷ 22	32	50	105	
HSK63A-SYER40-L133.5				3 ÷ 30	40	63	133.5	
HSK100A-SYER16M-L97	HSK A100	0.5	0.5	1 ÷ 10	16M	22	97	
HSK100A-SYER16-L96				1 ÷ 10	16	28	96	
HSK100A-SYER20-L97				1 ÷ 14	20	34	97	
HSK100A-SYER25-L101				1 ÷ 20	25	42	101	
HSK100A-SYER32-L110				2 ÷ 22	32	50	110	
HSK100A-SYER40-L133				3 ÷ 30	40	63	133	

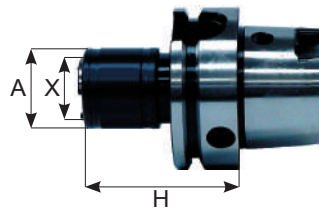
SYER- Mandrino a micro-compensazione assiale in compressione e trazione
SYER - Quick-change tapping chuck with micro-compensation in compression and tension



HSK-A / 63 / 100

CODICE	CONO	T	C	CAP	X	A	D1	L	EUR
HSK63A-SY1-L99	HSK A 63	0.5	0.5	M3 ÷ M12	19	32	35	99	
HSK63A-SY2-L114				M8 ÷ M20	31	50	45	114	
HSK100A-SY1-L108	HSK A100			M3 ÷ M12	19	32	35	108	
HSK100A-SY2-L120				M8 ÷ M20	31	50	45	120	

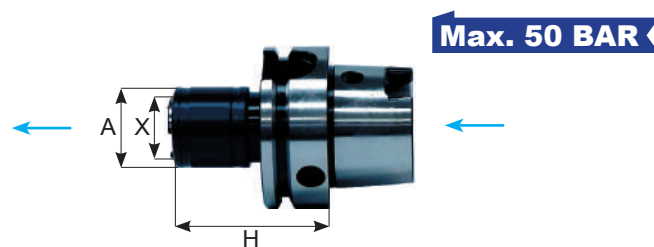
Mandrini rigidi
Rigid tap holders



HSK-A 50 / 63 / 100

CODICE	CAP	X	A	H	EUR
HSK50A-TLR1-L63	M3 ÷ M12	19	32	63	
HSK63A-TLR1-L63				63	
HSK100A-TLR1-L66				66	
HSK50A-TLR2-L84	M8 ÷ M20	31	50	84	
HSK63A-TLR2-L84				84	
HSK100A-TLR2-L87				87	
HSK63A-TLR3-L130	M14 ÷ M33	48	72	130	
HSK100A-TLR3-L116				116	

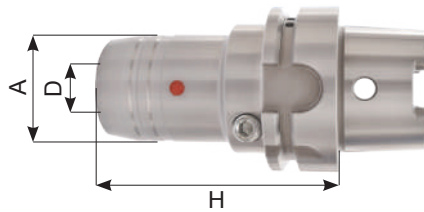
Mandrini rigidi con passaggio del refrigerante
Rigid tap holders with coolant thru



HSK-A 50 / 63 / 100

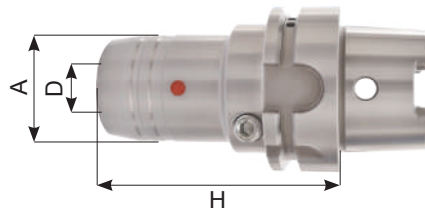
CODICE	CAP	X	A	H	EUR
HSK50A-TLR1-L70C	M3 ÷ M12	19	32	70	
HSK63A-TLR1-L70C				70	
HSK100A-TLR1-L77C				77	
HSK63A-TLR2-L94C	M8 ÷ M20	31	50	94	
HSK100A-TLR2-L96C				96	
HSK63A-TLR3-L130C	M14 ÷ M33	48	72	130	
HSK100A-TLR3-L134C				134	

Mandrino idraulico
Hydraulic Collet chucks

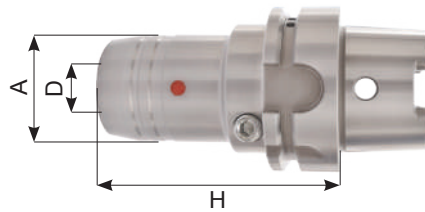


HSK32A / 40A / 50A

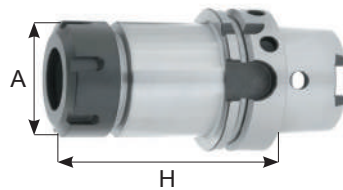
CODICE	FAM	D	FORMA	H	A	EUR
HSK32A.H80.HD6	5	6	HSK	80	26	
HSK32A.H80.HD8		8		80	28	
HSK32A.H85.HD10		10		85	30	
HSK32A.H90.HD12		12		90	32	
HSK40A.H80.HD6		6		80	26	
HSK40A.H80.HD8		8		80	28	
HSK40A.H85.HD10		10		85	30	
HSK40A.H90.HD12		12		90	32	
HSK50A.H70.HD6		6		70	26	
HSK50A.H70.HD8		8		70	28	
HSK50A.H75.HD10		10		75	30	
HSK50A.H85.HD12		12		85	32	
HSK50A.H85.HD14		14		85	34	
HSK50A.H90.HD16		16		90	38	
HSK50A.H90.HD18		18		90	40	
HSK50A.H90.HD20		20		90	42	

Mandrino idraulico
Hydraulic Collet chucks

HSK63A

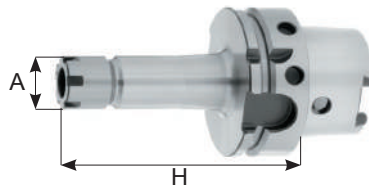
CODICE	FAM	D	FORMA	H	A	EUR
HSK63A.H70.HD6	5	6	HSK	70	26	
HSK63A.H120.HD6		120				
HSK63A.H150.HD6		150				
HSK63A.H200.HD6		200				
HSK63A.H70.HD8		8		70	28	
HSK63A.H120.HD8		120				
HSK63A.H150.HD8		150				
HSK63A.H200.HD8		200				
HSK63A.H80.HD10		10		80	30	
HSK63A.H120.HD10		120				
HSK63A.H150.HD10		150				
HSK63A.H200.HD10		200				
HSK63A.H85.HD12		12		85	32	
HSK63A.H120.HD12		120				
HSK63A.H150.HD12		150				
HSK63A.H200.HD12		200				
HSK63A.H85.HD14		14		85	34	
HSK63A.H120.HD14		120				
HSK63A.H150.HD14		150				
HSK63A.H200.HD14		200				
HSK63A.H90.HD16		16		90	38	
HSK63A.H120.HD16		120				
HSK63A.H150.HD16		150				
HSK63A.H200.HD16		200				
HSK63A.H90.HD18		18		90	42	
HSK63A.H120.HD18		120				
HSK63A.H150.HD18		150				
HSK63A.H200.HD18		200				
HSK63A.H90.HD20		20		90	50	
HSK63A.H120.HD20		120				
HSK63A.H150.HD20		150				
HSK63A.H200.HD20		200				
HSK63A.H120.HD25	25	120	53			
HSK63A.H125.HD32	32	125	59			

Mandrino idraulico
Hydraulic Collet chucks

HSK100A

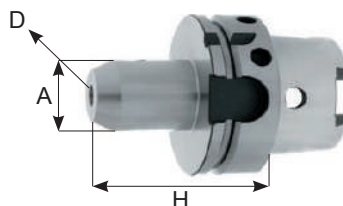
CODICE	FAM	D	FORMA	H	A	EUR
HSK100A.H75.HD6	5	6	HSK	75	26	
HSK100A.H150.HD6		150		26		
HSK100A.H200.HD6		200		26		
HSK100A.H75.HD8		8		75	28	
HSK100A.H150.HD8		8		150	28	
HSK100A.H200.HD8		8		200	28	
HSK100A.H90.HD10		10		90	30	
HSK100A.H150.HD10		10		150	30	
HSK100A.H200.HD10		10		200	30	
HSK100A.H95.HD12		12		95	32	
HSK100A.H150.HD12		12		150	32	
HSK100A.H200.HD12		12		200	32	
HSK100A.H95.HD14		14		95	34	
HSK100A.H150.HD14		14		150	34	
HSK100A.H200.HD14		14		200	34	
HSK100A.H100.HD16		16		100	38	
HSK100A.H150.HD16		16		150	38	
HSK100A.H200.HD16		16		200	38	
HSK100A.H100.HD18		18		100	40	
HSK100A.H150.HD18		18		150	40	
HSK100A.H200.HD18		18		200	40	
HSK100A.H105.HD20		20		105	42	
HSK100A.H150.HD20		20		150	42	
HSK100A.H200.HD20		20		200	42	
HSK100A.H110.HD25		25		110	57	
HSK100A.H110.HD32		32		110	63	

Portapinze con ghiera STANDARD
Collet chucks ER STANDARD nut

HSK-A 50 / 63 / 100

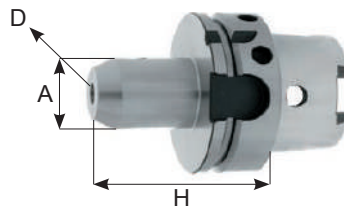
CODICE	FAM	CAP	RPM	H	A	EUR		
HSK50A.H100.ERC16	1	1 ÷ 10	15.000	100	28			
HSK50A.H100.ERC20		1 ÷ 14		100	34			
HSK50A.H100.ERC25		1 ÷ 20		100	42			
HSK50A.H100.ERC32		2 ÷ 22		100	50			
HSK63A.H100.ERC16		1 ÷ 10		15.000	100	28		
HSK63A.H130.ERC16					130	28		
HSK63A.H160.ERC16					160	28		
HSK63A.H100.ERC20					100	34		
HSK63A.H130.ERC20		1 ÷ 14		15.000	130	34		
HSK63A.H160.ERC20					160	34		
HSK63A.H100.ERC25		1 ÷ 20		15.000	100	42		
HSK63A.H130.ERC25					130	42		
HSK63A.H160.ERC25					160	42		
HSK63A.H80.ERC32					2 ÷ 22	15.000	80	50
HSK63A.H100.ERC32		100		50				
HSK63A.H130.ERC32		130		50				
HSK63A.H160.ERC32		160		50				
HSK63A.H100.ERC40		3 ÷ 30		15.000	100	63		
HSK63A.H130.ERC40					130	63		
HSK63A.H160.ERC40		10.000		10.000	160	63		
HSK100A.H100.ERC16			1 ÷ 10		10.000	100	28	
HSK100A.H130.ERC16						130	28	
HSK100A.H160.ERC16						160	28	
HSK100A.H100.ERC20						1 ÷ 14	10.000	100
HSK100A.H130.ERC20			130		34			
HSK100A.H160.ERC20			160		34			
HSK100A.H100.ERC25			1 ÷ 20		10.000			100
HSK100A.H130.ERC25						130	42	
HSK100A.H160.ERC25						160	42	
HSK100A.H80.ERC32						2 ÷ 22	10.000	80
HSK100A.H100.ERC32			100		50			
HSK100A.H130.ERC32			130		50			
HSK100A.H160.ERC32			160		50			
HSK100A.H200.ERC32			3 ÷ 30		10.000	200	50	
HSK100A.H100.ERC40						100	63	
HSK100A.H130.ERC40		130		63				
HSK100A.H160.ERC40		160		63				
HSK100A.H200.ERC40				200	63			

Portapinze con ghiera MINI
Collet chucks ER MINI nut

HSK-A / 50 / 63 / 100

CODICE	FAM	CAP	RPM	H	A	EUR		
HSK50A.H100.ERC16M	1-5	1 ÷ 10	15.000	100	22			
HSK50A.H100.ERC20M		1 ÷ 14			28			
HSK50A.H100.ERC25M		1 ÷ 20			35			
HSK63A.H100.ERC11M		1 ÷ 7		15.000	100	16		
HSK63A.H130.ERC11M					130			
HSK63A.H160.ERC11M					160			
HSK63A.H100.ERC16M		1 ÷ 10		15.000	100	22		
HSK63A.H130.ERC16M					130			
HSK63A.H160.ERC16M					160			
HSK63A.H100.ERC20M		1 ÷ 14		15.000	100	28		
HSK63A.H130.ERC20M					130			
HSK63A.H160.ERC20M					160			
HSK63A.H100.ERC25M		1 ÷ 20		15.000	100	35		
HSK63A.H130.ERC25M					130			
HSK63A.H160.ERC25M					160			
HSK100A.H100.ERC16M		1-5	1 ÷ 10	10.000	100	22		
HSK100A.H130.ERC16M					130			
HSK100A.H160.ERC16M					160			
HSK100A.H200.ERC16M					200			
HSK100A.H100.ERC20M					100		28	
HSK100A.H130.ERC20M			130					
HSK100A.H160.ERC20M			160					
HSK100A.H200.ERC20M			200					
HSK100A.H100.ERC25M			1 ÷ 14		10.000	100		35
HSK100A.H130.ERC25M						130		
HSK100A.H160.ERC25M						160		
HSK100A.H200.ERC25M						200		
HSK100A.H100.ERC25M						1 ÷ 20	10.000	
HSK100A.H130.ERC25M			130					
HSK100A.H160.ERC25M			160					
HSK100A.H200.ERC25M	200							
HSK100A.H200.ERC25M			200					

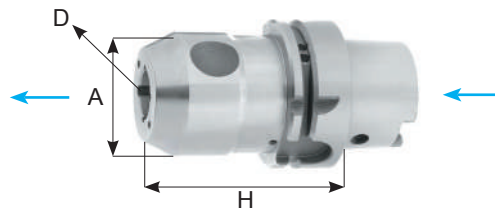
Portafrese Weldon DIN/1835-B
 End mill holders for DIN/1835-B

HSK-A / 50 / 63 / 100

CODICE	FAM	D	FORMA	H	A	EUR
HSK50A.H65.WE6	1-11	6	HSK50-A	65	25	
HSK50A.H65.WE8		8		65	28	
HSK50A.H65.WE10		10		65	35	
HSK50A.H80.WE12		12		80	42	
HSK50A.H80.WE14		14		80	44	
HSK50A.H80.WE16		16		80	48	
HSK50A.H80.WE18		18		80	50	
HSK50A.H80.WE20		20		80	52	
HSK63A.H65.WE6		65		HSK63-A		
HSK63A.H100.WE6		6			100	25
HSK63A.H160.WE6		160				
HSK63A.H65.WE8	65					
HSK63A.H100.WE8	8	100	28			
HSK63A.H160.WE8	160					
HSK63A.H65.WE10	65					
HSK63A.H100.WE10	10	100	35			
HSK63A.H160.WE10	160					

Portafrese Weldon DIN/1835-B
 End mill holders for DIN/1835-B

HSK-A / 63 / 100

CODICE	FAM	D	FORMA	H	A	EUR		
HSK63A.H80.WE12	1	12	HSK63-A	80	42			
HSK63A.H100.WE12				100				
HSK63A.H160.WE12				160				
HSK63A.H80.WE14				14		80	44	
HSK63A.H100.WE14						100		
HSK63A.H160.WE14						160		
HSK63A.H80.WE16		16		80	48			
HSK63A.H100.WE16				100				
HSK63A.H160.WE16				160				
HSK63A.H80.WE18				18		80	50	
HSK63A.H100.WE18		100						
HSK63A.H160.WE18		160						
HSK63A.H80.WE20		20		80	52			
HSK63A.H100.WE20				100				
HSK63A.H160.WE20				160				
HSK63A.H110.WE25				25		110	65	
HSK63A.H160.WE25		160						
HSK63A.H110.WE32		32		110	72			
HSK63A.H160.WE32	160							
HSK63A.H125.WE40	11		40	125		80		
HSK100A.H80.WE6	1	6	HSK100-A	80	25			
HSK100A.H80.WE8		8		80	28			
HSK100A.H80.WE10		10		80	35			
HSK100A.H80.WE12		12		80	42			
HSK100A.H80.WE14		14		80	44			
HSK100A.H100.WE16		16		100	48			
HSK100A.H100.WE18		18		100	50			
HSK100A.H100.WE20		20		100	52			
HSK100A.H100.WE25		25		100	65			
HSK100A.H100.WE32		32		100	72			
HSK100A.H105.WE40		8		40	105	80		
HSK100A.H130.WE50				50	130	100		

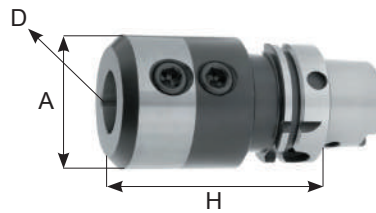
Portafrese Weldon con passaggio del refrigerante
End mill holders with coolant channels



HSK-A / 63 / 100

CODICE	FAM	D	FORMA	H	A	EUR
HSK63A.H75.WE6C	1	6	HSK63-A	75	25	
HSK63A.H75.WE8C		8		75	28	
HSK63A.H75.WE10C		10		75	35	
HSK63A.H80.WE12C		12		80	42	
HSK63A.H80.WE14C		14		80	44	
HSK63A.H80.WE16C		16		80	48	
HSK63A.H80.WE18C		18		80	50	
HSK63A.H80.WE20C		20		80	52	
HSK63A.H110.WE25C		25		110	65	
HSK63A.H110.WE32C		32		110	72	
HSK63A.H120.WE40C		40	120	80		
HSK100A.H75.WE6C		HSK100-A	6	75	25	
HSK100A.H75.WE8C			8	75	28	
HSK100A.H80.WE10C			10	80	35	
HSK100A.H90.WE12C			12	90	42	
HSK100A.H90.WE14C			14	90	44	
HSK100A.H100.WE16C			16	100	48	
HSK100A.H100.WE18C			18	100	50	
HSK100A.H100.WE20C			20	100	52	
HSK100A.H100.WE25C			25	100	65	
HSK100A.H100.WE32C	32		100	72		
HSK100A.H120.WE40C	40	105	80			

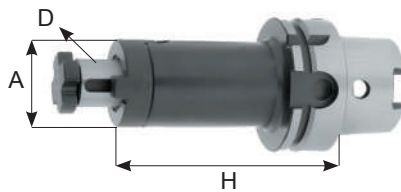
Portafrese Weldon Whistle-Notch
Whistle-Notch end mill holders



HSK-A / 63 / 100

CODICE	FAM	D	FORMA	H	A	EUR		
HSK63A.H80.WHN6	1	6	HSK63-A	80	25			
HSK63A.H80.WHN8		8		80	28			
HSK63A.H80.WHN10		10		80	35			
HSK63A.H90.WHN12		12		90	42			
HSK63A.H90.WHN14		14		90	44			
HSK63A.H100.WHN16		16		100	48			
HSK63A.H100.WHN18		18		100	50			
HSK63A.H100.WHN20		20		100	52			
HSK63A.H110.WHN25		25		110	65			
HSK63A.H110.WHN32		32		110	72			
HSK100A.H90.WHN6		1		6	HSK100-A	90	25	
HSK100A.H90.WHN8				8		90	28	
HSK100A.H90.WHN10				10		90	35	
HSK100A.H100.WHN12				12		100	42	
HSK100A.H100.WHN14	14		100	44				
HSK100A.H100.WHN16	16		100	48				
HSK100A.H100.WHN18	18		100	50				
HSK100A.H110.WHN20	20		110	52				
HSK100A.H120.WHN25	25		120	65				
HSK100A.H120.WHN32	32		120	72				
HSK100A.H120.WHN40	40		120	80				

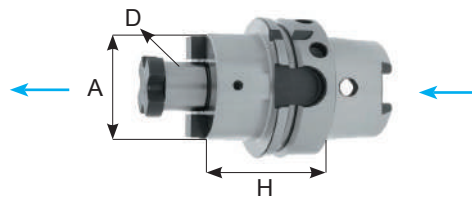
Portafrese combinato
Combi shell end mill holders



HSK-A / 50 / 63 / 100

CODICE	FAM	D	FORMA	H	A	EUR	
HSK50A.H50.D16C	1	16	HSK50-A	50	32		
HSK50A.H50.D22C		22		50	40		
HSK50A.H65.D27C		27		60	48		
HSK50A.H65.D32C		32		60	58		
HSK63A.H60.D16C		HSK63-A	16	60	32		
HSK63A.H100.D16C			100	60	40		
HSK63A.H60.D22C			22	100	48		
HSK63A.H100.D22C			27	60	58		
HSK63A.H60.D27C			27	100	70		
HSK63A.H100.D27C			32	60	70		
HSK63A.H60.D32C			32	100	70		
HSK63A.H100.D32C			40	60	70		
HSK63A.H70.D40C			40	100	70		
HSK63A.H100.D40C			HSK100-A	16	60	32	
HSK100A.H60.D16C				100	60	40	
HSK100A.H100.D16C				160	60	48	
HSK100A.H60.D22C		22		100	58		
HSK100A.H100.D22C		22		160	70		
HSK100A.H160.D22C		27		60	70		
HSK100A.H60.D27C		27		100	70		
HSK100A.H100.D27C		32		160	70		
HSK100A.H160.D27C		32		60	70		
HSK100A.H60.D32C		32		100	70		
HSK100A.H100.D32C		40		160	70		
HSK100A.H160.D32C		40		70	70		
HSK100A.H70.D40C		40	100	70			
HSK100A.H100.D40C		160	100	70			
HSK100A.H160.D40C			160				

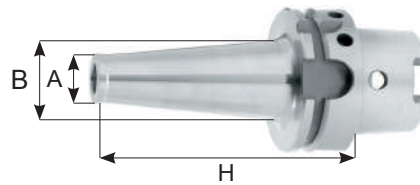
Portafrese fisso con passaggio del lubrificante
Shell end mill holders with coolant channels



HSK-A / 50 / 63 / 100

CODICE	FAM	D	FORMA	H	A	EUR	
HSK50A.H50.D16S	1	16	HSK50-A	50	40		
HSK50A.H60.D22S		22		60	48		
HSK50A.H60.D27S		27		60	60		
HSK50A.H60.D32S		32		60	78		
HSK63A.H50.D16S		HSK63-A	16	50	32		
HSK63A.H100.D16S				100	38		
HSK63A.H160.D16S			160				
HSK63A.H50.D22S			22	50	48		
HSK63A.H100.D22S				100			
HSK63A.H160.D22S			160				
HSK63A.H60.D27S			27	60	58		
HSK63A.H100.D27S				100			
HSK63A.H160.D27S				160			
HSK63A.H60.D32S				32	60	66	
HSK63A.H100.D32S			100				
HSK63A.H60.D40S			40	60	80		
HSK100A.H50.D16S			HSK100-A	16	50	32	
HSK100A.H100.D16S					100	38	
HSK100A.H160.D16S					160		
HSK100A.H50.D22S				22	50	48	
HSK100A.H100.D22S		100					
HSK100A.H160.D22S		160					
HSK100A.H50.D27S		27		50	58		
HSK100A.H100.D27S				100			
HSK100A.H160.D27S				160			
HSK100A.H50.D32S				32	50	66	
HSK100A.H100.D32S		100					
HSK100A.H160.D32S		160					
HSK100A.H60.D40S		40		60	80		
HSK100A.H100.D40S				100			
HSK100A.H160.D40S				160			

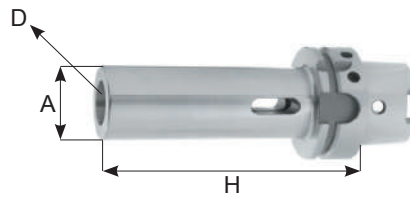
Porta utensili per frese con filetto
Tool holder for screwed milling cutters


HSK-A / 63 / 100

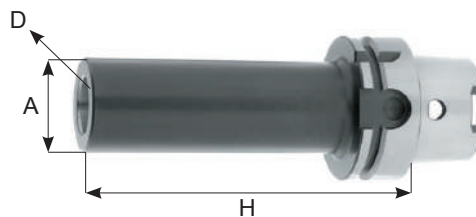
CODICE	FAM	M	FORMA	H	A	B	EUR		
HSK63A.H59.M8CPY	1	M8	HSK63-A	59	13	15			
HSK63A.H84.M8CPY				84		23			
HSK63A.H109.M8CPY				109		23			
HSK63A.H134.M8CPY				134		25			
HSK63A.H59.M10CPY		M10		59	18	20			
HSK63A.H84.M10CPY				84		25			
HSK63A.H109.M10CPY				109		28			
HSK63A.H134.M10CPY				134		28			
HSK63A.H59.M12CPY		M12		59	21	24			
HSK63A.H84.M12CPY				84		24			
HSK63A.H109.M12CPY				109		31			
HSK63A.H134.M12CPY				134		31			
HSK63A.H59.M16CPY		M16		59	29	34			
HSK63A.H84.M16CPY				84		34			
HSK63A.H109.M16CPY				109		34			
HSK63A.H134.M16CPY				134		39			
HSK100A.H87.M12CPY		1		M12	HSK100-A	79	21	30	
HSK100A.H137.M12CPY						129		38	
HSK100A.H187.M12CPY						179		52	
HSK100A.H87.M16CPY						79		34	
HSK100A.H137.M16CPY	129		40						
HSK100A.H187.M16CPY	179		45						

Momento di serraggio consigliato
Recommended tightening torque

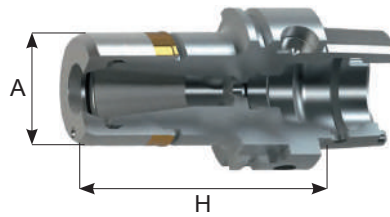
FILETTO / THREAD	Nm
M8	25
M10	40
M12	60
M16	80

Riduttori cono morse DIN/228-B per Punta
 Morse taper adapters DIN/228-B for Drills

HSK-A / 63 / 100

CODICE	FAM	D	FORMA	H	A	EUR
HSK63A.H100.CM1P	1	CM1	HSK63-A	100	25	
HSK63A.H120.CM2P		CM2		120	32	
HSK63A.H140.CM3P		CM3		140	40	
HSK63A.H160.CM4P		CM4		160	48	
HSK100A.H120.CM2P		CM2	HSK100-A	120	32	
HSK100A.H150.CM3P		CM3		150	40	
HSK100A.H170.CM4P		CM4		170	48	
HSK100A.H200.CM5P		CM5		200	63	

Riduttori cono morse DIN/228-A per Frese
 Reducing adaptors morse taper DIN/228-A for Threaded Mills

HSK-A / 63 / 100

CODICE	FAM	D	FORMA	H	A	EUR
HSK63A.H100.CM1F	1	CM1	HSK63-A	100	32	
HSK63A.H120.CM2F		CM2		120	40	
HSK63A.H150.CM3F		CM3		150	48	
HSK63A.H170.CM4F		CM4		170	63	
HSK100A.H120.CM2F		CM2	HSK100-A	120	32	
HSK100A.H150.CM3F		CM3		150	40	
HSK100A.H170.CM4F		CM4		170	48	
HSK100A.H200.CM5F		CM5		200	63	

Portapinze ER - Alta velocità
Collet chucks ER - HIGH SPEED

HSK-A / 63

CODICE	FAM	CAP	EQUIL	FORMA	H	A	EUR
HSK63A.H100.ERC11MNF	1	1 ÷ 7	G2.5	HSK-A	100	16	
HSK63A.H100.ERC16NF		1 ÷ 10			100	28	
HSK63A.H100.ERC25NF		1 ÷ 20			100	40	
HSK63A.H100.ERC32NF		2 ÷ 22			100	50	

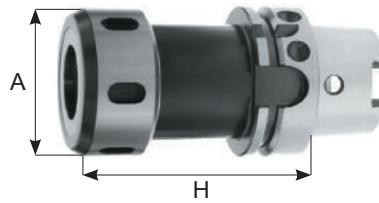
Ghiere MR - Alta velocità
MR Nut - HIGH SPEED


CODICE	FAM	GHIERA	A	EUR
MR11MNF	1	MINI	16	
MR16MNF		MINI	24	
MR16NF		STANDARD	28	
MR25NF		STANDARD	40	
MR32NF		STANDARD	50	

Chiavi MR - Alta velocità
Wrench MR - HIGH SPEED


CODICE	FAM	CHIAVE	EUR
CH-MR2-25Nm	1	DINAMOMETRICA	
CH-MR20-200Nm		DINAMOMETRICA	
CH-MR-230		ALESATORE / 230mm	
CH-MR11MNF		MINI	
CH-MR16MNF		MINI	
CH-MR16NF		STANDARD	
CH-MR25NF		STANDARD	
CH-MR32NF		STANDARD	

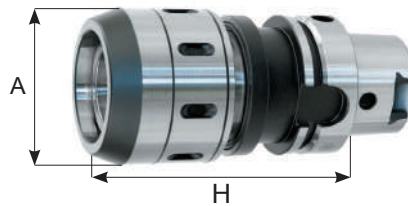
Portapinze per pinze EOC DIN/6388 B
Collet chucks EOC DIN/6388 B



HSK-A / 63

CODICE	FAM	CAP	RPM	H	A	EUR
HSK63A.H100.EOC16	1	2 ÷ 16	15.000	100	43	
HSK63A.H100.EOC25		2 ÷ 25		100	60	
HSK63A.H130.EOC32		3 ÷ 32		130	72	

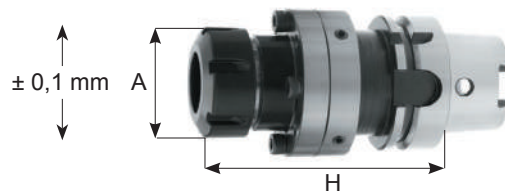
Portapinze a forte serraggio per pinze cilindriche
Power milling chucks



HSK-A / 50 / 63 / 100

CODICE	FAM	CAP	FORMA	H	A	EUR
HSK50A.H100.MCP20	5	3 ÷ 16	AD	100	56.5	
HSK63A.H105.MCP20		3 ÷ 16		105	56.5	
HSK63A.H130.MCP32		3 ÷ 25		130	71	
HSK100A.H110.MCP20		3 ÷ 16		110	56.5	
HSK100A.H135.MCP32		3 ÷ 25		135	71	

Portapinze ER con regolazione radiale
Radial adjustable collet chucks



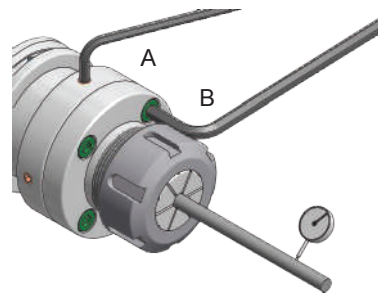
HSK-A / 63

CODICE	FAM	CAP	FORMA	H	A	EUR
HSK63A.H104.ERC32RG	1	2 ÷ 22	HSK63-A	104	50	
HSK100A.H105.ERC20RG		1 ÷ 14	HSK100-A	105	34	

Centratura regolabile 0,01mm
Adjustable runout 0,01mm

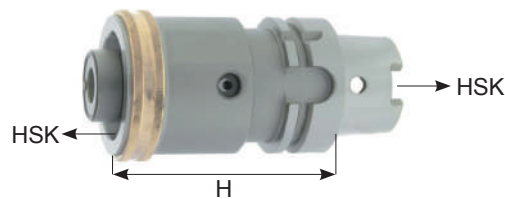
**Allentare le viti B e regolare la
centratura tramite le viti A.**

Loosen screws B and use screws A
for radial adjustment.



DISPONIBILI PINZE TG75 E TG100 IN HP
AVAILABLE COLLETS TG75 AND TG100 IN HP

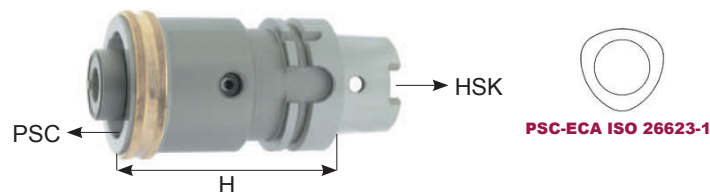
Coni riduttori HSK - HSK con serraggio di sicurezza
Reducers HSK - HSK with draw-in collet and covering ring



HSK-A / 40 / 50 / 63 / 80 / 100

CODICE	FAM	CONO	RIDUTTORE	H	EUR	
HSK40A.H60.HSK32AP	8	HSK40-A	HSK32-A	60		
HSK50A.H50.HSK32AP			HSK32-A	50		
HSK50A.H60.HSK40AP		HSK50-A	HSK40-A	60		
HSK50A.H70.HSK40AP			HSK40-A	70		
HSK63A.H55.HSK25AP		HSK63-A		HSK25-A	55	
HSK63A.H70.HSK32AP				HSK32-A	70	
HSK63A.H80.HSK40AP				HSK40-A	80	
HSK63A.H80.HSK50AP				HSK50-A	80	
HSK80A.H75.HSK32AP		HSK80-A		HSK32-A	75	
HSK80A.H80.HSK40AP				HSK40-A	80	
HSK80A.H80.HSK50AP				HSK50-A	80	
HSK80A.H90.HSK63AP				HSK63-A	90	
HSK100A.H70.HSK40AP		HSK100-A		HSK40-A	70	
HSK100A.H80.HSK50AP				HSK50-A	80	
HSK100A.H100.HSK63AP				HSK63-A	100	
HSK100A.H100.HSK80AP				HSK80-A	100	
HSK100A.H70.HSK63AP				HSK63-A	70	
HSK100A.H200.HSK50AP				HSK50-A	200	
HSK100A.H775.HSK63AP				HSK63-A	775	

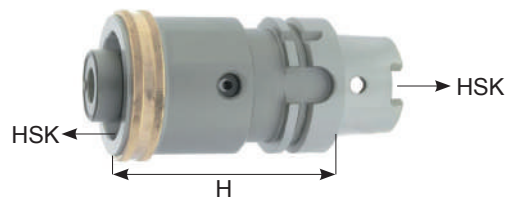
Coni riduttori da HSK a PSC-ECA ISO 26623-1
Adapters from HSK shank to PSC-ECA ISO 26623-1



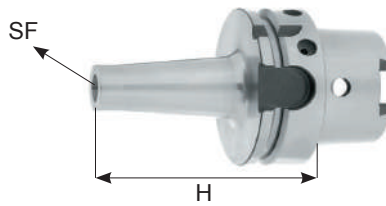
HSK-C4 / C5 / C6 / C8 / C10

CODICE	FAM	CONO	RIDUTTORE	FORMA	H	EUR
HSK63A.H80.C4	3	HSK	PSC-C4	HSK-A	80	
HSK100A.H90.C4					90	
HSK63A.H90.C5					90	
HSK100A.H100.C5					100	
HSK100A.H110.C6					110	
HSK100A.H120.C8					120	
HSK100A.H155.C10					155	

Prolunghe HSK - HSK con serraggio di sicurezza
Tool extension HSK - HSK with draw-in collet and covering ring

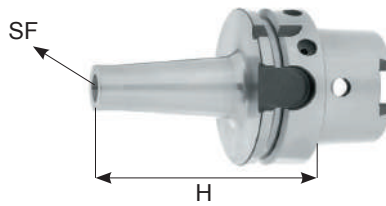

HSK-A / 32 / 40 / 50 / 63 / 100

CODICE	FAM	CONO	CONO	H	EUR
HSK32A.H55.HSK32AC	8	HSK32-A	HSK32-A	55	
HSK32A.H70.HSK32AC				70	
HSK40A.H60.HSK40AC		HSK40-A	HSK40-A	60	
HSK40A.H80.HSK40AC				80	
HSK50A.H80.HSK50AC		HSK50-A	HSK50-A	80	
HSK50A.H100.HSK50AC				100	
HSK63A.H80.HSK63AC		HSK63-A	HSK63-A	80	
HSK63A.H90.HSK63AC				90	
HSK63A.H100.HSK63AC				100	
HSK63A.H120.HSK63AC				120	
HSK63A.H160.HSK63AC				160	
HSK63A.H200.HSK63AC				200	
HSK80A.H100.HSK80AC		HSK80-A	HSK80-A	100	
HSK80A.H120.HSK80AC				120	
HSK80A.H160.HSK80AC				160	
HSK100A.H115.HSK100AC		HSK100-A	HSK100-A	115	
HSK100A.H140.HSK100AC				140	
HSK100A.H160.HSK100AC				160	
HSK100A.H200.HSK100AC				200	

Mandrini a calettamento
Shrink Fit holders

HSK-A / 50 / 63

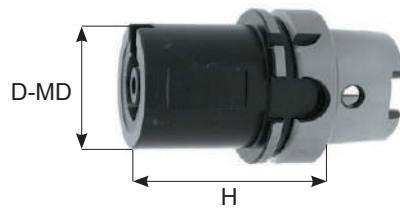
CODICE	FAM	SF	RPM	H	EUR		
HSK50A.H80.SF3	5-11	SF3	24.000	80			
HSK50A.H80.SF4		SF4		80			
HSK50A.H80.SF5		SF5		80			
HSK50A.H80.SF6		SF6		80			
HSK50A.H80.SF8		SF8		80			
HSK50A.H85.SF10		SF10		85			
HSK50A.H90.SF12		SF12		90			
HSK50A.H90.SF14		SF14		90			
HSK50A.H95.SF16		SF16		95			
HSK50A.H95.SF18		SF18		95			
HSK50A.H100.SF20		SF20		100			
HSK63A.H80.SF3		1-11		SF3	24.000	80	
HSK63A.H80.SF4				SF4		80	
HSK63A.H80.SF5				SF5		80	
HSK63A.H80.SF6	SF6		80				
HSK63A.H120.SF6	SF6		120				
HSK63A.H160.SF6	SF6		160				
HSK63A.H80.SF8	SF8		80				
HSK63A.H120.SF8	SF8		120				
HSK63A.H160.SF8	SF8		160				
HSK63A.H85.SF10	SF10		85				
HSK63A.H120.SF10	SF10		120				
HSK63A.H160.SF10	SF10		165				
HSK63A.H90.SF12	SF12		90				
HSK63A.H120.SF12	SF12		120				
HSK63A.H160.SF12	SF12	160					
HSK63A.H90.SF14	SF14	90					
HSK63A.H95.SF16	SF16	95					
HSK63A.H120.SF16	SF16	120					
HSK63A.H160.SF16	SF16	160					
HSK63A.H95.SF18	SF18	95					
HSK63A.H100.SF20	SF20	100					
HSK63A.H120.SF20	SF20	120					
HSK63A.H160.SF20	SF20	160					
HSK63A.H115.SF25	11	SF25	24.000	115			
HSK63A.H160.SF25		SF25		160			
HSK63A.H120.SF32		SF32		120			
HSK63A.H160.SF32		SF32		160			

DISPONIBILI CALETTAMENTO TERMICO SLIM, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI.
 AVAILABLE SHRINK FIT HOLRERS SLIM, CALL YOUR DEALER FOR MORE DETAILS.

Mandrini a calettamento
Shrink Fit holders

HSK-A / 100

CODICE	FAM	SF	RPM	H	EUR
HSK100A.H85.SF6	1	SF6	12.000	85	
HSK100A.H160.SF6				160	
HSK100A.H85.SF8		SF8		85	
HSK100A.H160.SF8				160	
HSK100A.H90.SF10		SF10		90	
HSK100A.H160.SF10				160	
HSK100A.H95.SF12		SF12		95	
HSK100A.H160.SF12				160	
HSK100A.H95.SF14		SF14		95	
HSK100A.H160.SF14				160	
HSK100A.H100.SF16		SF16		100	
HSK100A.H160.SF16				160	
HSK100A.H100.SF18		SF18		100	
HSK100A.H160.SF18				160	
HSK100A.H105.SF20		SF20		105	
HSK100A.H160.SF20				160	
HSK100A.H120.SF25		SF25		120	
HSK100A.H160.SF25				160	
HSK100A.H120.SF32		SF32		120	
HSK100A.H160.SF32				160	

DISPONIBILI CALETTAMENTO TERMICO SLIM, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI.
 AVAILABLE SHRINK FIT HOLRERS SLIM, CALL YOUR DEALER FOR MORE DETAILS.

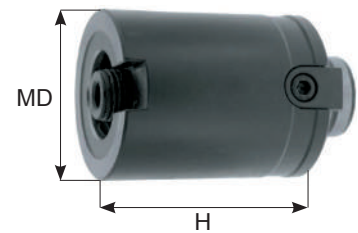
Mandrini modulari sistema Varilock
 Modular tool holders Varilock system

HSK-A / 63 / 100

CODICE	FAM	D-MD	FORMA	H	EUR
HSK63A.H75.D50MD	1	50	HSK63-A	75	
HSK63A.H85.D63MD		63		85	
HSK100A.H80.D50MD		50	HSK100-A	80	
HSK100A.H90.D63MD		63		90	
HSK100A.H90.D80MD		80		90	

Adattatori modulari lunghi sistema Varilock
 Modular extension adapters

MD50 / 63 / 80

CODICE	FAM	MD	H	EUR
MD50.H60.MD50	1	50	60	
MD50.H80.MD50	12	50	80	
MD50.H100.MD50	1	50	100	
MD63.H80.MD63		63	80	
MD63.H120.MD63		63	120	
MD80.H80.MD80		80	80	
MD80.H100.MD80		80	100	
MD80.H120.MD80		80	120	
MD80.H140.MD80		80	140	
MD80.H160.MD80		80	160	

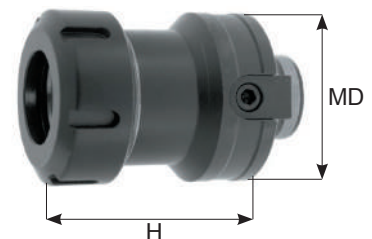


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Portapinze modulari sistema Varilock
 Modular collet chuck adapters

MD50 / 63 / 80

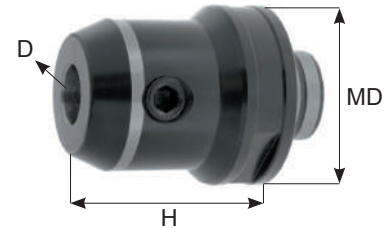
CODICE	FAM	CAP	MD	H	EUR
MD50.H63.ERC20	1	1 ÷ 14	50	63	
MD50.H63.ERC25		1 ÷ 20	50	63	
MD50.H65.ERC32		2 ÷ 22	50	65	
MD63.H77.ERC32		2 ÷ 22	63	77	
MD80.H90.ERC40		3 ÷ 30	80	90	



Portafrese Weldon modulari sistema Varilock
Modular end mill adapters

MD50 / 63 / 80

CODICE	FAM	MD	H	D	EUR	
MD50.H50.WE6	1	50	50	6		
MD50.H50.WE8			50	8		
MD50.H50.WE10			50	10		
MD50.H60.WE12			60	12		
MD50.H60.WE14			60	14		
MD50.H60.WE16			60	16		
MD50.H60.WE18			60	18		
MD63.H70.WE10			63	70	10	
MD63.H70.WE12		70		12		
MD63.H70.WE14		70		14		
MD63.H70.WE16		70		16		
MD63.H70.WE18		70		18		
MD63.H70.WE20		70		20		
MD63.H80.WE25		80		80	25	
MD63.H80.WE32				80	32	
MD63.H90.WE40			90	40		
MD80.H70.WE16			70	16		
MD80.H70.WE20			70	20		
MD80.H80.WE25			80	25		
MD80.H80.WE32			80	32		
MD80.H90.WE40			90	40		

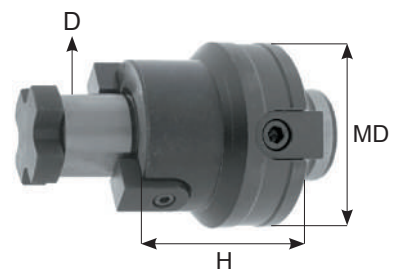


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Portafrese modulari sistema Varilock
Shell end mill holders Modular Adapters

MD50 / MD63 / MD80

CODICE	FAM	MD	H	D	EUR
MD50.H30.D16S	1	50	30	16	
MD50.H20.D22S			20	22	
MD50.H20.D27S			20	27	
MD50.H25.D32S			25	32	
MD63.H30.D22S		63	30	22	
MD63.H30.D27S			30	27	
MD63.H30.D32S			30	32	
MD63.H30.D40S			30	40	
MD80.H30.D27S		80	30	27	
MD80.H30.D32S			30	32	
MD80.H30.D40S			30	40	



Riduzioni modulari sistema Varilock
Modular Adapters

MD63 / MD80

CODICE	FAM	MD	H	EUR
MD63.H60.MD50	1	50	60	
MD80.H80.MD63		63	80	

Varilock is a trademark of "Sandvik AB" and is used here only for identification purpose.

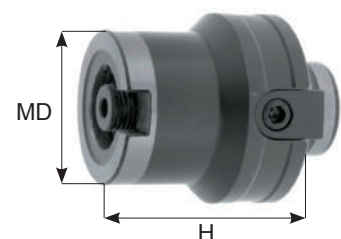
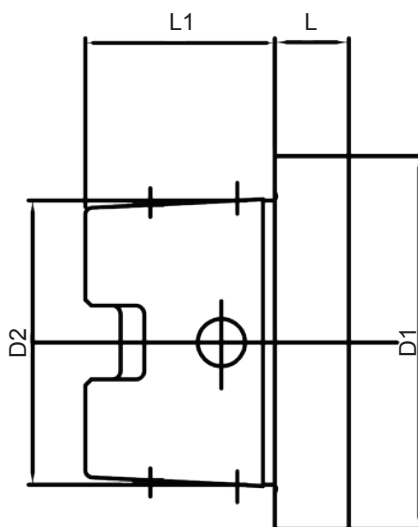


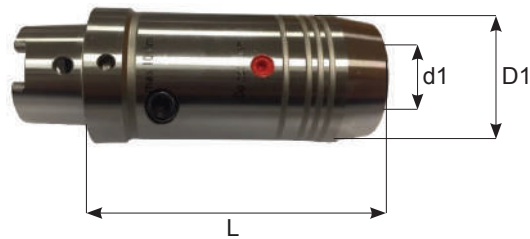
Tabella tecnica
Technical table

FORMA = C

C



FORMA	D	D1	L1	L
HSK-C	25	19	13	10
	32	24	16	10
	40	30	20	10
	50	38	25	12.5
	63	48	32	12.5

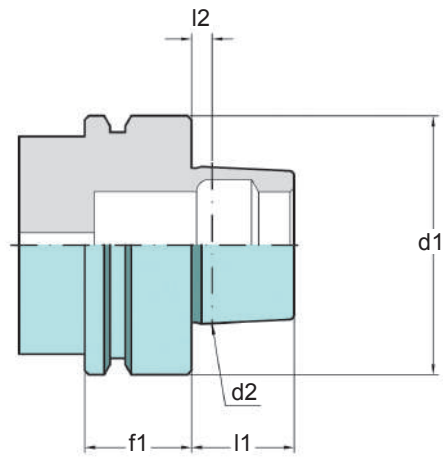
Mandrini idraulici
 Hydraulic chuck

HSK-C / 40 / 50 / 63

CODICE	FAM	d	RPM	L	D1	EUR
HSK40C.H60.HD6	5	6	25.000	60	26	
HSK40C.H60.HD8		8		60	28	
HSK40C.H65.HD10		10		65	30	
HSK40C.H70.HD12		12		70	32	
HSK50C.H60.HD6		6		60	26	
HSK50C.H60.HD8		8		60	28	
HSK50C.H65.HD10		10		65	30	
HSK50C.H75.HD12		12		75	32	
HSK50C.H75.HD14		14		75	34	
HSK50C.H80.HD16		16		80	38	
HSK50C.H80.HD18		18		80	40	
HSK50C.H80.HD20		20		80	42	
HSK50C.H90.HD25		25		90	49.5	
HSK63C.H60.HD6		6		60	26	
HSK63C.H60.HD8		8		60	28	
HSK63C.H65.HD10		10		65	30	
HSK63C.H75.HD12		12		75	32	
HSK63C.H75.HD14		14		75	34	
HSK63C.H80.HD16		16		80	38	
HSK63C.H80.HD18		18		80	40	
HSK63C.H80.HD20		20		80	42	
HSK63C.H95.HD25		25		95	58	
HSK63C.H100.HD32		32		100	62	

Tabella tecnica
Technical table

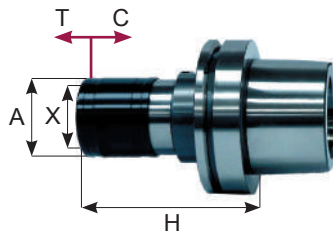
FORMA = E

E



FORMA	d1	d2	l1	l2	M	f1
HSK-E	25	19	13	2.5	M8 x 1	10
	32	24	16	3.2	M10 x 1	20
	40	30	20	4	M12 x 1	20
	50	38	25	5	M16 x 1	26
	63	40	32	6.3	M18 x 1	26

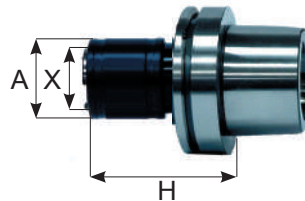
Mandrini con compressione e trazione
Tension and compression tap holders



HSK-E 40 / 50 / 63

CODICE	CAP	X	A	H	T	C	EUR
HSK40E-THTC1-L80	M3 ÷ M12	19	36	80	7.5	7.5	
HSK50E-THTC1-L80	M3 ÷ M12	19	36	80	7.5	7.5	
HSK50E-THTC2-L110	M8 ÷ M20	31	53	110	10	10	
HSK63E-THTC1-L80	M3 ÷ M12	19	36	80	7.5	7.5	
HSK63E-THTC2-L110	M8 ÷ M20	31	53	110	10	10	

Mandrini rigidi
Rigid tap holders



HSK-E 40 / 50 / 63

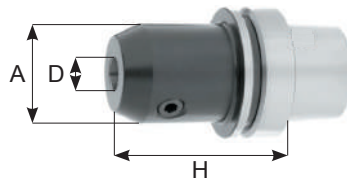
CODICE	CAP	X	A	H	EUR
HSK40E-TLR1-L57	M3 ÷ M12	19	33	57	
HSK40E-TLR2-L84	M8 ÷ M20	31	50	84	
HSK50E-TLR1-L63	M3 ÷ M12	19	33	63	
HSK50E-TLR2-L84	M8 ÷ M20	31	50	84	
HSK63E-TLR1-L63	M3 ÷ M12	19	33	63	
HSK63E-TLR2-L84	M8 ÷ M20	31	50	84	

Portapinze con ghiera STANDARD
Collet chucks ER STANDARD nut

HSK-E 50 / 63
CONO - BODY BALANCED RPM

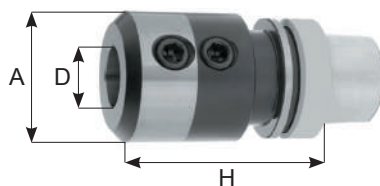
CODICE	FAM	CAP	RPM	H	A	EUR
HSK50E.H100.ERC16	1-3	1 ÷ 10	30.000	100	28	
HSK50E.H100.ERC20		1 ÷ 14		100	28	
HSK50E.H100.ERC25		1 ÷ 20		100	42	
HSK50E.H100.ERC32		2 ÷ 22		100	50	
HSK63E.H73.ERC32		2 ÷ 22		73	50	
HSK63E.H78.ERC40		3 ÷ 30		78	74	

Portafrese Weldon DIN/1835-B
End mill holders for DIN/1835-B



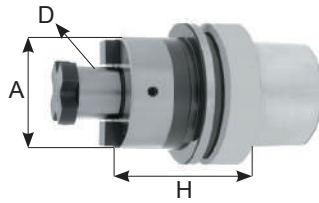
HSK-E / 50 / 63

CODICE	FAM	D	FORMA	H	A	EUR	
HSK50E.H65.WE6	1	6	HSK50-E	65	25		
HSK50E.H65.WE8		8			28		
HSK50E.H65.WE10		10			35		
HSK50E.H80.WE12		12			42	80	
HSK50E.H80.WE14		14			44		
HSK50E.H80.WE16		16		48			
HSK50E.H80.WE18		18		50			
HSK50E.H80.WE20		20		52			
HSK63E.H65.WE6		6		HSK63-E	65	15	
HSK63E.H65.WE8		8				20	
HSK63E.H65.WE10		10	25				
HSK63E.H80.WE12		12	30			80	
HSK63E.H80.WE14		14	32				
HSK63E.H80.WE16		16	36				
HSK63E.H80.WE18		18	38				
HSK63E.H80.WE20		20	40				
HSK63E.H110.WE25		25	HSK63-E		110	46	
HSK63E.H110.WE32		32				64	

Portafrese Weldon Whistle-Notch
 Whiistle-Notch end mill holders

HSK-E / 50 / 63

CODICE	FAM	D	FORMA	H	A	EUR	
HSK50E.H80.WHN6	8	6	HSK50-E	80	25		
HSK50E.H80.WHN8		8		80	28		
HSK50E.H80.WHN10		10		80	35		
HSK50E.H90.WHN12		12		90	42		
HSK50E.H90.WHN14		14		90	44		
HSK50E.H90.WHN16		16		90	48		
HSK50E.H90.WHN18		18		90	50		
HSK50E.H100.WHN20		20		100	52		
HSK63E.H80.WHN6		6		HSK63-E	80	25	
HSK63E.H80.WHN8		8			80	28	
HSK63E.H80.WHN10		10	80		35		
HSK63E.H90.WHN12		12	90		42		
HSK63E.H90.WHN14		14	90		44		
HSK63E.H100.WHN16		16	100		48		
HSK63E.H100.WHN18		18	100		50		
HSK63E.H100.WHN20		20	100		52		
HSK63E.H110.WHN25		25	110		65		
HSK63E.H110.WHN32		32	110		72		

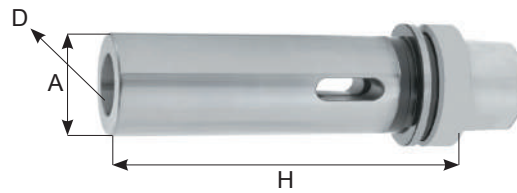
Portafrese fisse
Shell end mill holders



HSK-E / 50 / 63

CODICE	FAM	D	FORMA	H	A	EUR
HSK50E.H50.D16S	1	16	HSK50-E	50	38	
HSK50E.H60.D22S		22		60	48	
HSK50E.H60.D27S		27		60	58	
HSK50E.H60.D32S		32		60	65	
HSK63E.H50.D16S		16	HSK63-E	50	38	
HSK63E.H50.D22S		22		50	48	
HSK63E.H60.D27S		27		60	58	
HSK63E.H60.D32S		32		60	65	
HSK63E.H65.D40S		40		65	89	

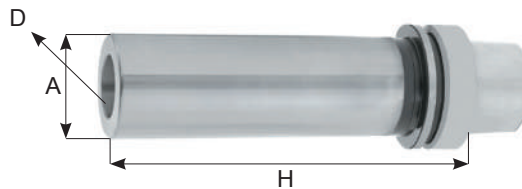
Riduttori cono morse DIN/228-B per punte
Morse taper adapters DIN/228-B for Drills



HSK-E / 50 / 63

CODICE	FAM	D	FORMA	H	A	EUR
HSK50E.H100.CM1P	2	CM1	HSK50-E	100	25	
HSK50E.H120.CM2P		CM2		120	32	
HSK50E.H140.CM3P		CM3		140	40	
HSK63E.H100.CM1P		CM1	HSK63-E	100	25	
HSK63E.H120.CM2P		CM2		120	32	
HSK63E.H140.CM3P		CM3		140	40	
HSK63E.H165.CM4P		CM4		165	48	

Riduttori cono morse DIN/228-A per Frese
Reducing adaptors morse taper DIN/228-A for Threaded Mills



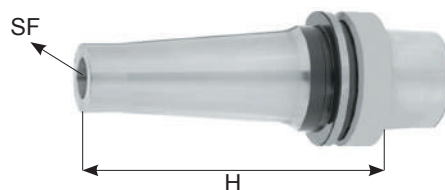
HSK-E / 40 / 50 / 63

CODICE	FAM	D	FORMA	H	A	EUR
HSK50E.H100.CM1F	2	CM1	HSK50-E	100	25	
HSK50E.H115.CM2F		CM2		115	32	
HSK50E.H140.CM3F		CM3		140	40	
HSK63E.H100.CM1F		CM1	HSK63-E	100	25	
HSK63E.H125.CM2F		CM2		125	32	
HSK63E.H145.CM3F		CM3		145	40	
HSK63E.H165.CM4F		CM4		165	48	

Mandrini idraulici
 Hydraulic chuck

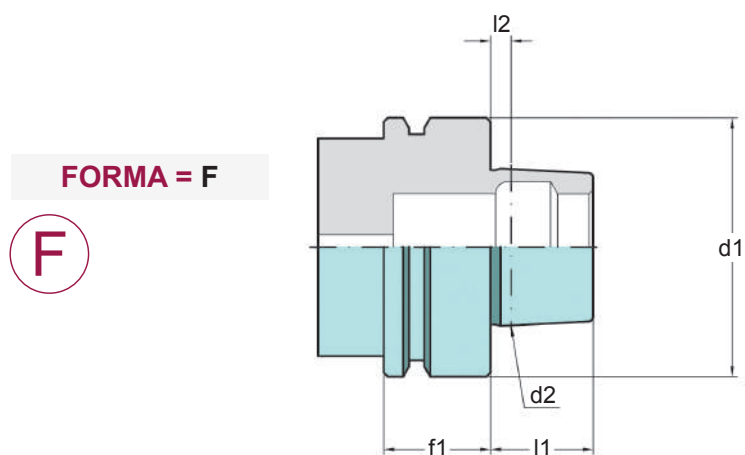
HSK-E / 40 / 50

CODICE	FAM	D	RPM	H	A	EUR
HSK40E.H70.HD6	5	6	25.000	70	26	
HSK40E.H70.HD8		8		70	28	
HSK40E.H65.HD10		10		65	30	
HSK40E.H80.HD12		12		80	32	
HSK50E.H70.HD6		6		70	26	
HSK50E.H70.HD8		8		70	28	
HSK50E.H75.HD10		10		75	30	
HSK50E.H85.HD12		12		85	32	
HSK50E.H85.HD14		14		85	34	
HSK50E.H90.HD16		16		90	38	
HSK50E.H90.HD18		18		90	40	
HSK50E.H90.HD20		20		90	42	

Mandrini a calettamento
Shrink Fit holders

HSK-E / 50 / 63

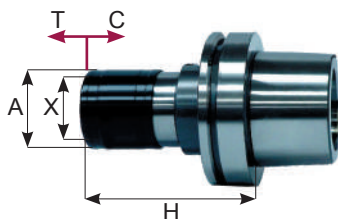
CODICE	FAM	SF	FORMA	H	EUR	
HSK50E.H80.SF3	1	SF3	HSK50-E	80		
HSK50E.H80.SF4		SF4		80		
HSK50E.H80.SF5		SF5		80		
HSK50E.H80.SF6		SF6		80		
HSK50E.H80.SF8		SF8		80		
HSK50E.H85.SF10		SF10		85		
HSK50E.H90.SF12		SF12		90		
HSK50E.H90.SF14		SF14		90		
HSK50E.H95.SF16		SF16		95		
HSK50E.H95.SF18		SF18		95		
HSK50E.H100.SF20		SF20	100			
HSK63E.H80.SF3		1	SF3	HSK63-E	80	
HSK63E.H80.SF4			SF4		80	
HSK63E.H80.SF5			SF5		80	
HSK63E.H80.SF6			SF6		80	
HSK63E.H80.SF8			SF8		80	
HSK63E.H85.SF10			SF10		85	
HSK63E.H90.SF12			SF12		90	
HSK63E.H90.SF14			SF14		90	
HSK63E.H95.SF16			SF16		95	
HSK63E.H95.SF18	SF18		95			
HSK63E.H100.SF20	SF20		100			
HSK63E.H115.SF25	SF25		115			
HSK63E.H120.SF32	SF32	120				

TABELLA TECNICA
TECHNICAL TABLE



FORMA	d1	d2	l1	l2	f1
HSK-F	40	24	16	3.2	20
	50	30	20	4	26
	63	38	25	5	26

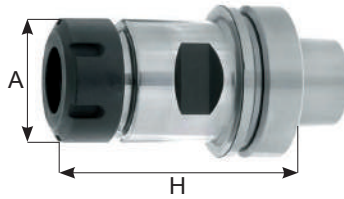
Mandrini con compressione e trazione
Tension and compression tap holders



HSK-F 50 / 63

CODICE	CAP	X	A	H	T	C	EUR
HSK50F-THTC1-L80	M3 ÷ M12	19	36	80	7.5	7.5	
HSK63F-THTC1-L81				81			
HSK50F-THTC2-L137	M8 ÷ M20	31	53	137	10	10	
HSK63F-THTC2-L119				119			

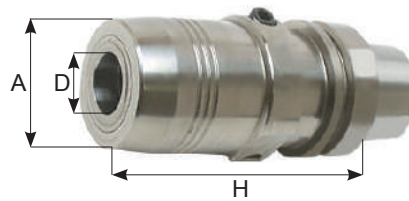
Portapinze con ghiera STANDARD
Collet chucks ER STANDARD nut



HSK-F / 40 / 50 / 63

CODICE	FAM	CAP	RPM	H	A	EUR
HSK50F.H73.ERC25	3	1 ÷ 20	15.000	73	42	
HSK63F.H60.ERC16	5	1 ÷ 10		60	28	
HSK63F.H100.ERC16				100		
HSK63F.H70.ERC20	1	1 ÷ 14		70	34	
HSK63F.H100.ERC20				100		
HSK63F.H70.ERC25		1 ÷ 20		70	42	
HSK63F.H100.ERC25				100		
HSK63F.H73.ERC32		2 ÷ 22		73	50	
HSK63F.H100.ERC32				100		
HSK63F.H78.ERC40		3 ÷ 30			78	63
HSK63F.H100.ERC40	100					

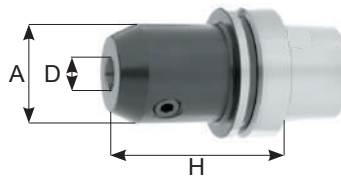
Mandrini idraulici
Hydraulic chucks



HSK-F / 63

CODICE	FAM	D	FORMA	H	A	EUR
HSK63F.H70.HD6	5	6	HSK63-F	70	26	
HSK63F.H70.HD8		8		70	28	
HSK63F.H80.HD10		10		80	30	
HSK63F.H85.HD12		12		85	32	
HSK63F.H85.HD14		14		85	34	
HSK63F.H90.HD16		16		90	38	
HSK63F.H90.HD18		18		90	40	
HSK63F.H90.HD20		20		90	42	
HSK63F.H120.HD25		25		120	50	

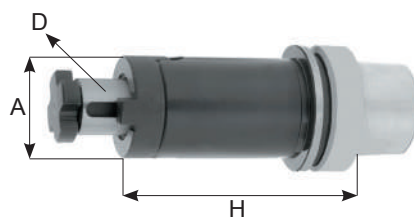
Portafrese Weldon DIN/1835-B
End mill holders for DIN/1835-B



HSK-F / 50 / 63

CODICE	FAM	D	FORMA	H	A	EUR
HSK50F.H65.WE6	2	6	HSK50-F	65	25	
HSK50F.H65.WE8		8		65	28	
HSK50F.H65.WE10		10		65	35	
HSK50F.H80.WE12		12		80	42	
HSK50F.H80.WE16		16		80	48	
HSK50F.H80.WE20		20		80	52	
HSK63F.H65.WE6	1	6	HSK63-F	65	25	
HSK63F.H65.WE8		8		65	28	
HSK63F.H65.WE10		10		65	35	
HSK63F.H80.WE12		12		80	42	
HSK63F.H80.WE14		14		80	44	
HSK63F.H80.WE16		16		80	48	
HSK63F.H80.WE18		18		80	48	
HSK63F.H80.WE20		20		80	52	
HSK63F.H110.WE25		25		110	65	

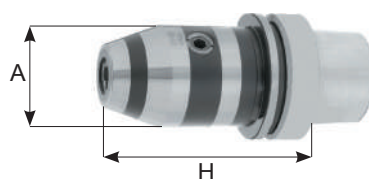
Portafrese combinate
Combi shell end mill holders



HSK-F / 63

CODICE	FAM	D	FORMA	H	A	EUR
HSK63F.H60.D16C	5	16	HSK63-F	60	32	
HSK63F.H60.D22C		22		60	40	
HSK63F.H60.D27C		27		60	48	
HSK63F.H65.D32C		32		65	58	
HSK63F.H70.D40C		40		70	70	

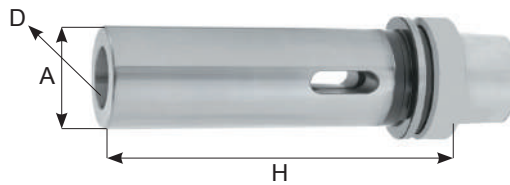
Mandrini portapunte
Drill chuck Arbors



HSK-F / 63

CODICE	FAM	CAP	FORMA	H	A	EUR
HSK63F.H110.DCK13	1	1 ÷ 13	HSK63-F	110	50	
HSK63F.H115.DCK16		2.5 ÷ 16		115	50	

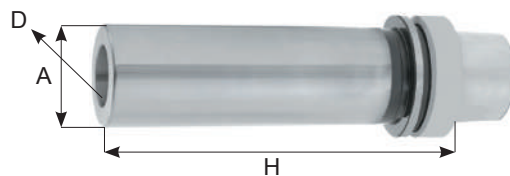
Riduttori cono morse DIN/228-B
Morse taper adapters DIN/228-B



HSK-F / 50 / 63

CODICE	FAM	D	FORMA	H	A	EUR
HSK50F.H115.CM1P	2	CM1	HSK50-F	115	25	
HSK50F.H130.CM2P		CM2		130	32	
HSK50F.H150.CM3P		CM3		150	40	
HSK63F.H105.CM1P		CM1	HSK63-F	105	25	
HSK63F.H120.CM2P		CM2		120	32	
HSK63F.H140.CM3P		CM3		140	40	
HSK63F.H165.CM4P		CM4		165	48	

Riduttori cono morse DIN/228-A con tirante
Reducing adaptors morse taper shank and drawbar thread DIN/228-A



HSK-F / 50 / 63

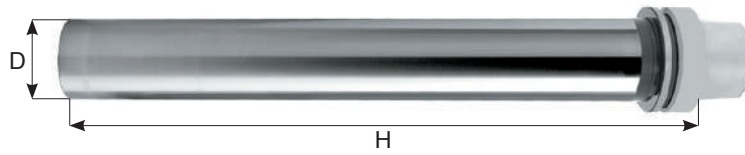
CODICE	FAM	D	FORMA	H	A	EUR
HSK50F.H90.CM1F	2	CM1	HSK50-F	90	25	
HSK50F.H115.CM2F		CM2		115	32	
HSK50F.H140.CM3F		CM3		140	40	
HSK63F.H100.CM1F		CM1	HSK63-F	100	25	
HSK63F.H125.CM2F		CM2		125	32	
HSK63F.H145.CM3F		CM3		145	40	
HSK63F.H165.CM4F		CM4		165	48	

Mandrini a calettamento
Shrink Fit holders

HSK-F / 63

CODICE	FAM	SF	FORMA	H	EUR
HSK63F.H80.SF3	5	SF3	HSK63-F	80	
HSK63F.H120.SF3				120	
HSK63F.H80.SF4		SF4		80	
HSK63F.H120.SF4				120	
HSK63F.H80.SF5		SF5		80	
HSK63F.H120.SF5				120	
HSK63F.H80.SF6		SF6		80	
HSK63F.H120.SF6				120	
HSK63F.H80.SF8		SF8		80	
HSK63F.H120.SF8				120	
HSK63F.H80.SF10		SF10		80	
HSK63F.H120.SF10				120	
HSK63F.H80.SF12		SF12		80	
HSK63F.H120.SF12				120	
HSK63F.H85.SF14		SF14		85	
HSK63F.H120.SF14				120	
HSK63F.H95.SF16		SF16		95	
HSK63F.H120.SF16				120	
HSK63F.H95.SF18		SF18		95	
HSK63F.H120.SF18				120	
HSK63F.H100.SF20	SF20	100			
HSK63F.H120.SF25	SF25	120			

Barre di controllo con certificato DIN/69893
Test arbor with accuracy certificate DIN/69893

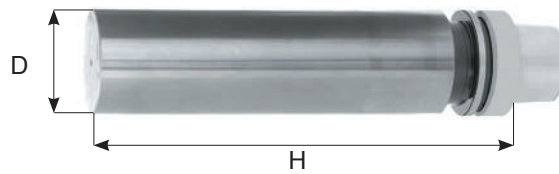


HSK-F / 63

☑0.003A

CODICE	FAM	D	FORMA	H	EUR
HSK63F.H346.CK40	9	40	HSK63-F	346	

Barre tenere
Machinable blank Arbors



HSK-F / 63

CODICE	FAM	D	FORMA	H	EUR
HSK63F.H250.D63BL	8	63	HSK63-F	250	



**PROGRAMMA
LEGNO E ALLUMINIO**

WOOD AND ALUMINIUM
PROGRAM

10



PROGRAMMA LEGNO E ALLUMINIO

WOOD AND ALUMINIUM PROGRAM



MANDRINI PORTAPINZE
COLLET CHUCKS

10A



MANDRINI PORTAFRESE TCL
COLLET CHUCKS TCL



MANDRINI PORTAPINZE TCL SCM
COLLET CHUCKS TCL SCM

10B



MANDRINI PORTAFRESE TLC SCM
COLLET CHUCKS TLC SCM



FLANGE DI RICAMBIO
FLANGE

10C



MANDRINI PORTAPINZE
COLLET CHUCKS

10D



MANDRINI PORTAPINZE CONO MORSE
COLLET CHUCKS CONO MORSE

Portapinzine con ghiere STANDARD

Collet chucks without driving Slots


FLANGIA 46 mm
ROTAZIONE DESTRA

CODICE	FAM	CAP	RPM	FL	H	A	EUR
WD30C.H60.ERC32RH	1	2 ÷ 22	20.000	46	60	50	
WD30C.H65.ERC40RH		3 ÷ 30			65	63	

FLANGIA 46 mm
ROTAZIONE SINISTRA

CODICE	FAM	CAP	RPM	FL	H	A	EUR
WD30C.H60.ERC32LH	1	2 ÷ 22	20.000	46	60	50	
WD30C.H65.ERC40LH		3 ÷ 30			65	63	

Mandrini portafrese TCL30

Collet chucks TCL30


FLANGIA 46 mm Ø EJE 30

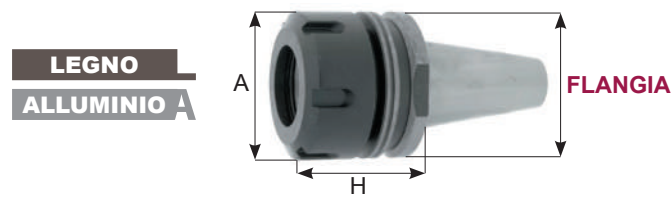
CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D30x80.FL46	3	MND3048	24.000	46	35	30	80	45	
TCL30.D30x100.FL46		MND2978					100		
TCL30.D30x150.FL46		MND3051					150		
TCL30.D30x200.FL46		MND3146					200		

FLANGIA 46 mm Ø EJE 35

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D35x80.FL46	3	MND3147	24.000	46	35	35	80	50	
TCL30.D35x100.FL46		MND3148					100		
TCL30.D35x150.FL46		MND0352					150		
TCL30.D35x200.FL46		MND3149					200		

Portapinzine con ghiera STANDARD

Collet chucks without driving Slots


FLANGIA 50 mm
ROTAZIONE DESTRA

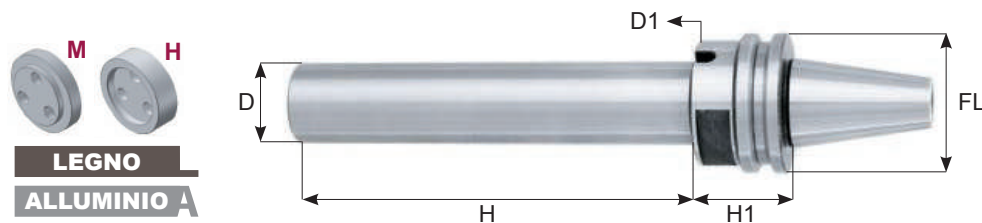
CODICE	FAM	CAP	RPM	FL	H	A	EUR
WD30.H50.ERC32RH	1	2 ÷ 22	20.000	50	50	50	
WD30.H67.ERC32RH		2 ÷ 22			67		
WD30.H57.ERC40RH		3 ÷ 30			57		63

FLANGIA 50 mm
ROTAZIONE SINISTRA

CODICE	FAM	CAP	RPM	FL	H	A	EUR
WD30.H50.ER32LH	1	2 ÷ 22	20.000	50	50	50	
WD30.H67.ERC32LH		2 ÷ 22			67		
WD30.H57.ERC40LH		3 ÷ 30			57		63

Mandrini portafrese TCL30

Collet chucks TCL30


FLANGIA 50 mm Ø EJE 30

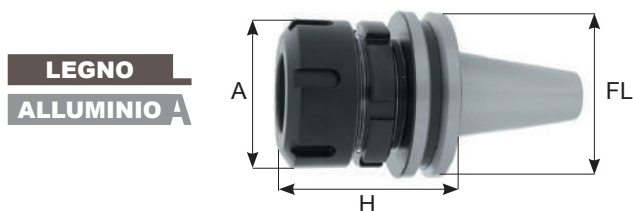
CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D30x80.FL50	9	MND0254	24.000	50	35	30	80	45	
TCL30.D30x100.FL50		MND2967					100		
TCL30.D30x150.FL50		MND3052					150		
TCL30.D30x200.FL50		MND3133					200		

FLANGIA 50 mm Ø EJE 35

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D35x80.FL50	9	MND3135	24.000	50	35	35	80	48	
TCL30.D35x100.FL50		MND3136					100		
TCL30.D35x150.FL50		MND0264					150		
TCL30.D35x200.FL50		MND3137					200		

Portapinzze con ghiera STANDARD

Collet chucks without driving Slots



FLANGIA 58 mm

ROTAZIONE DESTRA

CODICE	FAM	CAP	RPM	FL	H	A	EUR
WD30U.H63.ERC32RH	1	2 ÷ 22	20.000	58	63	50	

Mandrii portafrese TCL30

Collet chucks TCL30



FLANGIA 58 mm Ø EJE 30

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D30x80.FL58	9	MND3138	24.000	58	35	30	80	45	
TCL30.D30x100.FL58		MND3139					100		
TCL30.D30x150.FL58		MND3140					150		
TCL30.D30x200.FL58		MND3141					200		

FLANGIA 58 mm Ø EJE 35

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D35x80.FL58	9	MND3142	24.000	58	35	35	80	50	
TCL30.D35x100.FL58		MND3143					100		
TCL30.D35x150.FL58		MND3144					150		
TCL30.D35x200.FL58		MND3145					200		

MASCHIO



CODICE	FAM	COD	EUR
FLANGIA.D30M	9	SID1674	
FLANGIA.D35M		SID1677	

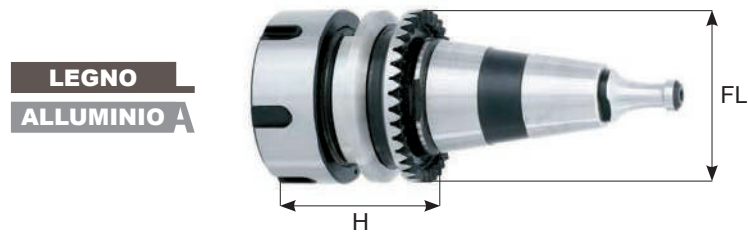
FEMMINA



CODICE	FAM	COD	EUR
FLANGIA.D30H	9	SID1673	
FLANGIA.D35H		SID1676	

Mandrini portapinze TCL30 SCM

Collet chucks TCL30 SCM


FLANGIA 49 mm
DX = DESTRO
SX = SINISTRO

CODICE	FAM	COD	CAP	RPM	H	FL	EUR
TCL30.H55.ERX32DX	9	MND1673	2 ÷ 22	24.000	55	49	
TCL30.H55.ERX32SX		MND3150					
TCL30.H74.ERX40DX		MND3151	3 ÷ 30		74		
TCL30.H74.ERX40SX		MND3152					
TCL30.H70.EOC25DX		MND3153	2 ÷ 25		70		
TCL30.H70.EOC25SX		MND3154					

Mandrini portafrese TCL30 SCM

Collet chucks TCL30 SCM


FLANGIA 49 mm Ø EJE 30 / 35 / 40

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D30x80.SCM	9	MND3155	24.000	49	41	30	80	45	
TCL30.D30x100.SCM		MND3103					100		
TCL30.D30x150.SCM		MND3156					150		
TCL30.D30x200.SCM		MND3157					200		
TCL30.D35x80.SCM	9	MND3158	24.000	49	41	35	80	50	
TCL30.D35x100.SCM		MND3159					100		
TCL30.D35x150.SCM		MND3160					150		
TCL30.D35x200.SCM		MND3161					200		
TCL30.D40x80.SCM	9	MND3162	24.000	49	41	40	80	53	
TCL30.D40x100.SCM		MND3163					100		
TCL30.D40x150.SCM		MND3164					150		
TCL30.D40x200.SCM		MND3165					200		

Flange di ricambio

Flangia

LEGNO

ALLUMINIO

MASCHIO



FEMMINA



CODICE	FAM	COD	EUR
FLANGIA.D30M	9	SID1674	
FLANGIA.D35M		SID1677	
FLANGIA.D40M		SID1679	

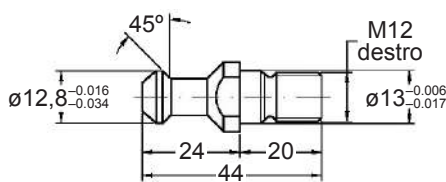
CODICE	FAM	COD	EUR
FLANGIA.D30H	9	SID1673	
FLANGIA.D35H		SID1676	
FLANGIA.D40M		SID1678	

Tiranti

Pull studs

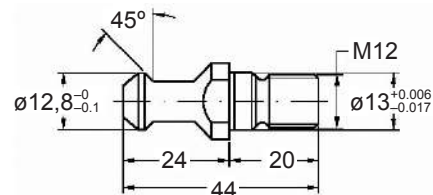
Tirante tipo Alberti PS.WD30-ALB

Alberti type PS.WD30-ALB



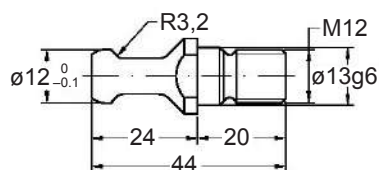
Tirante tipo COLOMBO PS.WD30-COL

Colombo type PS.WD30-COL



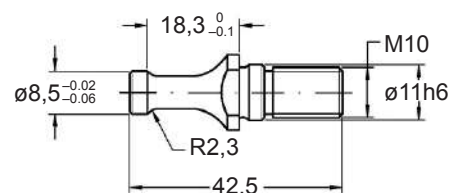
Tirante tipo Biesse PS.WD30-BS2

Biesse type PS.WD30-BS2



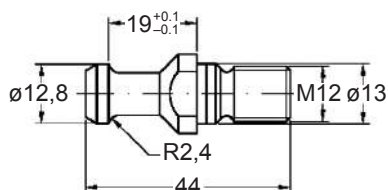
Tirante tipo SCM PS.WD30-SCM

SCM type PS.WD30-SCM



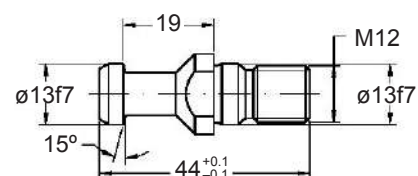
Tirante tipo CMS PS.WD30-CMS

CMS type PS.WD30-CMS



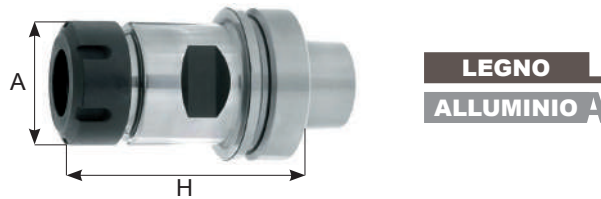
Tirante tipo DIN/69872 PS.WD30SF

DIN/69872 PS.WD30SF



Portapinzine con ghiera STANDARD

Collet chucks ER STANDARD nut



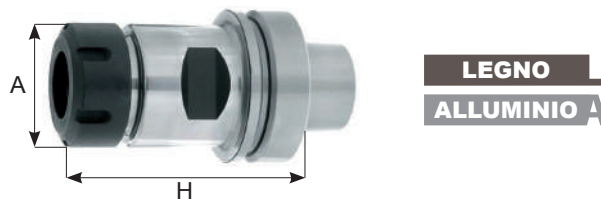
HSK-E / 63

ROTAZIONE DESTRA

CODICE	FAM	CAP	RPM	H	A	EUR
HSK63E.H73.ERC32RH	1	2 ÷ 22	20.000	73	50	
HSK63E.H78.ERC40RH		3 ÷ 30		78	63	

Portapinzine con ghiera STANDARD

Collet chucks ER STANDARD nut



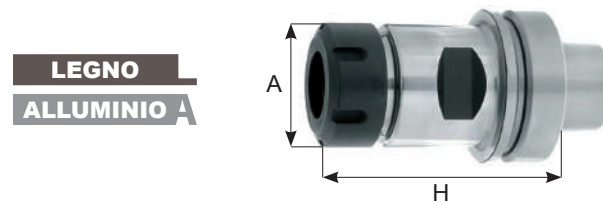
HSK-E / 63

ROTAZIONE SINISTRA

CODICE	FAM	CAP	RPM	H	A	EUR
HSK63E.H73.ERC32LH	1	2 ÷ 22	20.000	73	50	
HSK63E.H78.ERC40LH		3 ÷ 30		78	63	

Portapinze con ghiera STANDARD

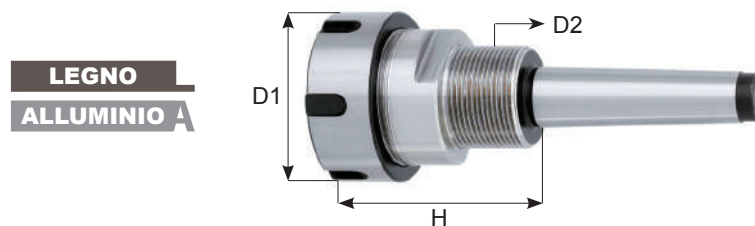
Collet chucks ER STANDARD nut


HSK-F / 63
LH = SINISTRO

CODICE	FAM	CAP	RPM	H	A	EUR
HSK63F.H73.ERC32RH	1	2 ÷ 22	20.000	73	50	
HSK63F.H100.ERC32RH		2 ÷ 22		100	50	
HSK63F.H78.ERC40RH		3 ÷ 30		78	63	
HSK63F.H100.ERC40RH		3 ÷ 30		100	63	
HSK63F.H73.ERC32LH		2 ÷ 22		73	50	
HSK63F.H78.ERC40LH		3 ÷ 30		78	63	

Portapinze con morse

Collet chucks cono morse


CM2 / CM3
DX = DESTRO
SX = SINISTRO

CODICE	FAM	COD	CAP	RPM	CM	H	D1	D2	EUR
CM2.H62.ERX32.DX-M30	9	MND1885	2 ÷ 22	24.000	2	62	50	M30x1.5	
CM2.H62.ERX32.SX-M30		MND3166							
CM2.H85.ERX32.DX-M20		MND3167	2 ÷ 22			85	50	M20x14	
CM2.H85.ERX32.SX-M20		MND3168							
CM2.H93.ERX40.DX-M30		MND3169	3 ÷ 30			93	63	M30x1.5	
CM2.H93.ERX40.SX-M30		MND3170							
CM2.H93.ERX40.DX-M20		MND3171	3 ÷ 30			93	63	M20x14	
CM2.H93.ERX40.SX-M20		MND3172							
CM3.H70.ERX32.DX-M30		MND3210	2 ÷ 22		70	50	M30x1.5		
CM3.H70.ERX32.SX-M30		MND3173							
CM3.H80.ERX40.DX-M30		MND3211	3 ÷ 30		80	63	M30x1.5		
CM3.H80.ERX40.SX-M30		MND3174							



**MANDRINI ATTACCO
PSC - ECA ISO 26623-1**

TOOLHOLDERS
PSC - ECA ISO 26623-1

11



MANDRINI ATTACCO PSC – ECA ISO 26623-1

TOOLHOLDERS PSC – ECA ISO 26623-1



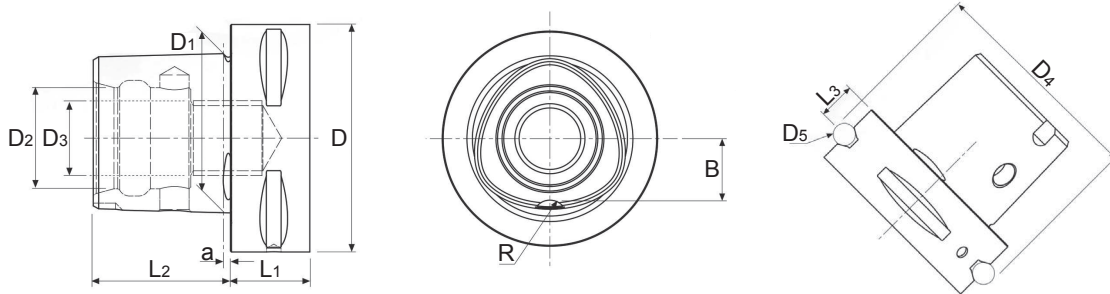
	MANDRINI PORTAPINZE COLLET CHUCKS	11A
	RIDOTTORI CONO MORSE REDUCING ADAPTORS	
	MANDRINI PORTAFRESE FISSI SHELL END MILL HOLDERS	11B
	MANDRINI PER FRESE WELDON CHUCKS END MILL HOLDERS	11C
	MANDRINI A CALETTAMENTO SHIRNK FIT HOLDERS	11D
	ESTENSIONI / RIDUZIONI PSC EXTENSION / REDUCTION PSC	11E
	BARRE TENERE BLANK ARBORS	11F
	BARRE DI CONTROLLO TEST BAR	11G

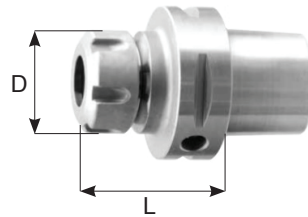
Tabella tecnica
Technical table



PSC	D	D1	D2	D3	D4	D5	L1 min	L2	L3	a	B	R
32	32	22	15	M12 x 1.5	39.0	5	15	19	6	2.5	9.0	3
40	40	28	18	M14 x 1.5	46.0	5	20	24	8	2.5	11.0	3
50	50	35	21	M16 x 1.5	59.3	7	20	30	10	3.0	14.0	4
63	63	44	28	M20 x 2.0	70.7	7	22	38	12	3.0	18.0	5
80	80	55	32	M20 x 2.0	86.0	7	30	48	12	3.0	22.2	6
100	100	72	43	M24 x 2.0	110.0	10	32	60	16	3.0	29.2	6

Mandrini portapinza ER DIN 6499

Collect chuck ER DIN 6499


C40 / 50 / 63 / 80 / 100

CODICE	FAM	CAP	D	L	EUR
C40.ER16.L70	3	1 + 10	28	70	
C40.ER25.L52		1 + 20	42	52	
C40.ER32.L54		2 + 22	50	54	
C50.ER16.L100		1 + 10	28	100	
C50.ER25.L55		1 + 20	42	55	
C50.ER32.L57		2 + 22	50	57	
C50.ER32.L100		2 + 22	50	100	
C63.ER16.L100		1 + 10	28	100	
C63.ER20.L60		1 + 14	34	60	
C63.ER20.L100		1 + 14	34	100	
C63.ER25.L60		1 + 20	42	60	
C63.ER25.L100		1 + 20	42	100	
C63.ER32.L70		2 + 22	50	70	
C63.ER32.L100		2 + 22	50	100	
C63.ER40.L65		3 + 30	63	65	
C80.ER25.L70		1 + 20	42	70	
C80.ER32.L70		2 + 22	50	70	
C80.ER32.L160		2 + 22	50	160	
C80.ER40.L70		3 + 30	63	70	
C80.ER40.L160		3 + 30	63	160	
C100.ER32.L160	2 + 22	50	160		

Riduttori cono morse

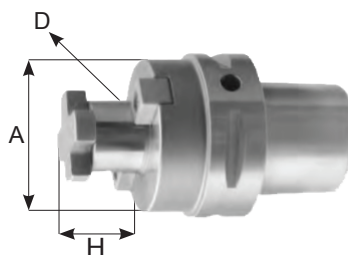
Reducing adaptors


C50 / 63 / 80 / 100

CODICE	FAM	A	L	D1	EUR
C40.CM2B.L110	13	CM2	110	32	
C40.CM2B.L130		CM3	130	40	
C63.CM2B.L110		CM2	110	32	
C63.CM3B.L130		CM3	130	40	
C63.CM3B.L150		CM4	150	52	
C80.CM3B.L120		CM3	120	40	
C80.CM4B.L140		CM4	140	52	
C80.CM5B.L160		CM5	160	63	
C100.CM3B.L130		CM3	130	40	
C100.CM4B.L140		CM4	150	52	
C100.CM5B.L175		CM5	175	63	

Mandrini portafrese fissi

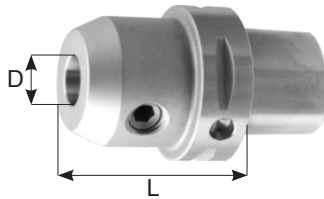
Shell end mill holders


C40 / 50 / 63 / 80 / 100

CODICE	FAM	D	H	A	EUR
C40.L32.D16S	3	16	32	37	
C40.L25.D22S		22	25	47	
C50.L35.D16S		16	35	37	
C50.L25.D22S		22	25	47	
C50.L25.D27S		27	25	58	
C50.L40.D32S		32	40	63	
C63.L35.D16S		16	35	37	
C63.L40.D22S		22	40	47	
C63.L40.D27S		27	40	58	
C63.L40.D32S		32	40	78	
C63.L45.D40S		40	45	80	
C80.L50.D16S		16	50	37	
C80.L30.D22S		22	30	47	
C80.L30.D27S		27	30	58	
C80.L30.D32S		32	30	78	
C80.L30.D40S		40	30	80	
C80.L60.D60S		60	60	130	
C100.L75.D22S		22	75	47	
C100.L75.D27S		27	75	58	
C100.L75.D32S		32	75	78	
C100.L40.D40S	40	40	80		
C100.L75.D60S	60	75	130		

Mandrini per frese Weldon

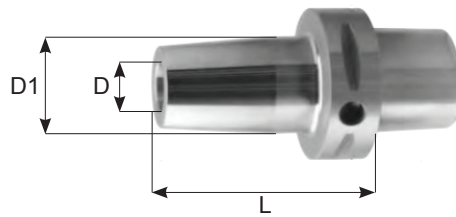
Chuck end mill holders


C40 / 50 / 63 / 80 / 100

CODICE	FAM	CAP	D	L	EUR
C40.L50.WE6	3	6	25	50	
C40.L50.WE8		8	28	50	
C40.L50.WE10		10	35	50	
C40.L55.WE12		12	42	55	
C40.L55.WE14		14	44	55	
C40.L55.WE16		16	48	55	
C50.L50.WE6		6	25	50	
C50.L50.WE8		8	28	50	
C50.L55.WE10		10	35	55	
C50.L60.WE12		12	42	60	
C50.L60.WE14		14	44	60	
C50.L60.WE16		16	48	60	
C50.L60.WE18		18	48	60	
C50.L60.WE20		20	52	60	
C50.L80.WE25		25	65	80	
C63.L55.WE6		6	25	55	
C63.L55.WE8		8	28	55	
C63.L60.WE10		10	35	60	
C63.L60.WE12		12	42	60	
C63.L60.WE14		14	44	60	
C63.L65.WE16		16	48	65	
C63.L65.WE18		18	48	65	
C63.L65.WE20		20	52	65	
C63.L80.WE25		25	65	80	
C63.L90.WE32		32	72	90	
C63.L100.WE40		40	80	100	
C80.L70.WE6		6	25	70	
C80.L70.WE8		8	28	70	
C80.L70.WE10		10	35	70	
C80.L70.WE12		12	42	70	
C80.L70.WE14		14	44	70	
C80.L70.WE16		16	48	70	
C80.L70.WE18	18	48	70		
C80.L70.WE20	20	52	70		
C80.L90.WE25	25	65	90		
C80.L95.WE32	32	72	95		
C80.L110.WE40	40	80	110		
C80.L120.WE50	50	100	120		
C100.L90.WE6	20	52	90		
C100.L105.WE8	25	65	105		
C100.L110.WE32	32	72	110		
C100.L115.WE40	40	80	115		
C100.L120.WE50	50	100	120		

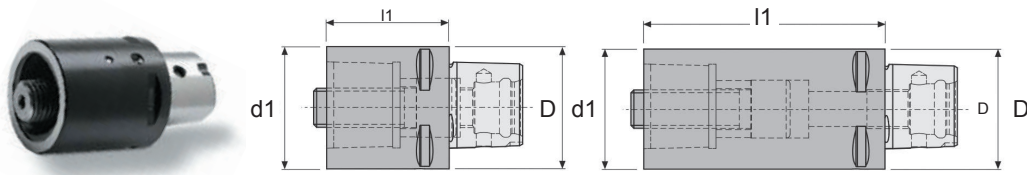
Mandirini a calettamento

Shrink fit holders


C40 / 50 / 63 / 80 / 100

CODICE	FAM	D	D1	L	EUR
C40.L75.SF6	3	6	20	75	
C40.L75.SF8		8	20	75	
C40.L75.SF10		10	24	75	
C40.L75.SF12		12	24	75	
C40.L80.SF14		14	27	80	
C40.L80.SF16		16	27	80	
C40.L85.SF20		20	33	85	
C50.L75.SF6		6	20	75	
C50.L75.SF8		8	20	75	
C50.L75.SF10		10	24	75	
C50.L75.SF12		12	24	75	
C50.L80.SF14		14	27	80	
C50.L80.SF16		16	27	80	
C50.L80.SF18		18	33	80	
C50.L85.SF20		20	33	85	
C63.L80.SF3		3	16	80	
C63.L80.SF4		4	18	80	
C63.L80.SF5		5	20	80	
C63.L80.SF6		6	20	80	
C63.L80.SF8		8	20	80	
C63.L80.SF10		10	24	80	
C63.L80.SF12		12	24	80	
C63.L80.SF14		14	27	85	
C63.L80.SF16		16	27	85	
C63.L80.SF18		18	33	85	
C63.L80.SF20		20	33	85	
C63.L80.SF25		25	44	90	
C63.L80.SF32		32	44	95	
C80.L90.SF10		10	24	90	
C80.L90.SF12		12	24	90	
C80.L95.SF16		16	27	95	
C80.L95.SF20		20	33	95	
C80.L100.SF25	25	44	100		
C100.L95.SF12	12	24	95		
C100.L100.SF16	16	27	100		
C100.L100.SF20	20	33	100		
C100.L110.SF25	25	44	110		

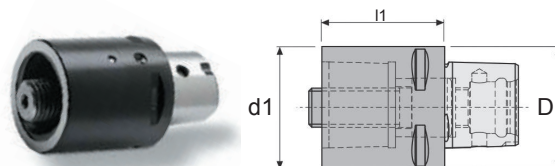
Estensioni PSC
Extension PSC



C40 / 50 / 63 / 80 / 100

CODICE	FAM	L1	d1	EUR
C32.L60.EXT32	3	60	32	
C32.L80.EXT32		80	32	
C40.L60.EXT40		60	40	
C40.L80.EXT40		80	40	
C50.L80.EXT50		80	50	
C50.L100.EXT50		100	50	
C63.L100.EXT63		100	63	
C63.L140.EXT63		140	63	
C80.L100.EXT80		100	80	
C80.L150.EXT80		150	80	
C100.L140.EXT100		140	100	
C100.L200.EXT100		200	100	

Riduzione PSC
Reduction PSC

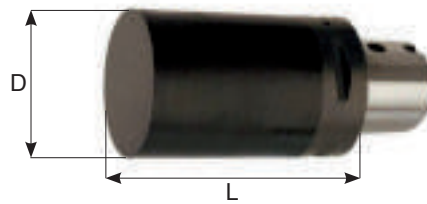


C40 / 50 / 63 / 80

CODICE	FAM	ESTENSIONE		d1	D	l1	EUR
C40.L70.RID32	3	C4	C3	32	40	70	
C50.L60.RID32		C5	C3	32	50	60	
C50.L65.RID40		C5	C4	40	50	65	
C63.L80.RID40		C6	C4	40	63	80	
C63.L80.RID50		C6	C4	50	63	80	
C80.L70.RID40		C8	C4	40	80	70	
C80.L80.RID50		C8	C5	50	80	80	
C80.L80.RID63		C8	C6	63	80	80	
C100.L200.RID63		C10	C6	63	100	200	
C100.L200.RID80		C10	C8	80	100	200	

Barre tenere

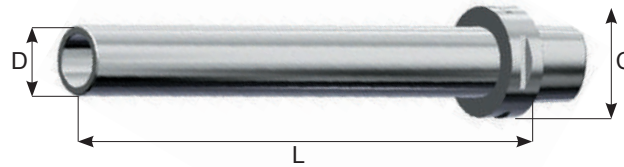
Blank arbors



C40 / 50 / 63 / 80 / 100

CODICE	F	D	L	EUR
C40.L120.D40BL	3	40	120	
C40.L165.D60BL		60	165	
C40.L200.D75BL		75	200	
C40.L120.D100BL		100	120	
C50.L150.D50BL		50	150	
C50.L180.D63BL		63	180	
C50.L175.D75BL		75	175	
C50.L250.D80BL		80	250	
C50.L80.D90BL		90	80	
C50.L150.D95BL		95	150	
C50.L90.D110BL		110	90	
C63.L180.D63BL		63	180	
C63.L195.D75BL		75	195	
C63.L300.D100BL		100	300	
C63.L120.D110BL		110	120	
C63.L180.D120BL		120	180	
C63.L95.D130BL		130	95	
C80.L200.D80BL		80	200	
C80.L200.D100BL		100	200	
C80.L160.D120BL		120	160	
C80.L300.D120BL		120	300	
C80.L90.D130BL		130	90	
C80.L200.D150BL		150	200	
C100.L100.D100BL		100	100	
C100.L200.D100BL		100	200	
C100.L100.D150BL		150	100	
C100.L200.D150BL		150	200	
C100.L300.D150BL		150	300	
C100.L100.D200BL		200	100	

Barre di controllo
Test bars



C32 / 40 / 50 / 63 / 80

CODICE	F	D	L	EUR
C32.L180.D20BC	3	20	180	
C40.L180.D32BC		32	180	
C50.L280.D40BC		40	280	
C63.L352.D40BC		40	352	
C80.L320.D40BC		40	320	

Supporti di montaggio con rulli 90°
Tool assembly device with rollers 90°



TBL

CODICE	FAM	MODELLO	EUR
TBRL1.32	1	C3	
TBRL1.40		C4	
TBRL1.50		C5	
TBRL1.63		C6	
TBRL1.80		C8	

Supporti di montaggio orientabili ISO PSC-26623-1
Polygon and ISO 26623-1 shanks



SMU

CODICE	FAM	MODELLO	EUR
SMU-PSC32	2	ISO PSC-26623-1	
SMU-PSC40			
SMU-PSC50			
SMU-PSC63			
SMU-PSC80			
SMU-PSC100			

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