

**EMAC TOOLS**

TURIN

CATALOGO

# INDICE GENERALE

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# **BUSSOLE PORTAMASCHI - PINZE - TIRANTI E RICAMBI**

ADAPTERS - COLLETS -  
PULL STUDS AND  
ACCESSORIES

# 1





# BUSSOLE PORTAMASCHI - PINZE - TIRANTI E RICAMBI

ADAPTERS - COLLETS - PULL STUDS AND ACCESSORIES



**BUSSOLE FISSE**  
POSITIVE DRIVE TAP COLLETS

**1A**



**BUSSOLE FISSE A FISSAGGIO MANUALE**  
POSITIVE DRIVE TAP COLLETS WITH SET SCREWS



**BUSSOLE FISSE ALLUNGABILI**  
POSITIVE DRIVE LENGTH ADJUSTABLE TAP COLLETS

**1B**



**PORTAPINZE**  
POSITIVE DRIVE ER COLLET ADAPTERS



**BUSSOLE DI RIDUZIONE**  
POSITIVE DRIVE TAP COLLETS REDUCERS

**1C**



**BUSSOLE FISSE ATTACCO DIN/238**  
POSITIVE DRIVE TAP COLLETS DIN/238



**BUSSOLE PORTAFILIERA**  
DIE HOLDER POSITIVE DRIVE TAP COLLETS



**BUSSOLE CON FRIZIONE**  
TORQUE CONTROL TAP COLLETS

**1D**



**BUSSOLE CON FRIZIONE A FISSAGGIO MANUALE**  
TORQUE CONTROL TAP COLLETS WITH SET SCREWS



**BUSSOLE CON FRIZIONE ALLUNGABILI**  
TORQUE CONTROL LENGTH ADJUSTABLE TAP COLLETS

**1E**



**PROLUNGHE ABV**  
TAP EXTENSIONS ABV

**1F**



**KIT VALIGETTA**  
KIT

**1G**

# BUSSOLE PORTAMASCHI - 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 CON INSERTI IN NEOPRENE ERXG**  
RUBBER SEALED COLLETS



**PINZE A TENUTA MECCANICA**  
SOLID SEALED COLLETS



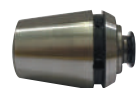
**PINZE CON FORI DI LUBRIFICAZIONE JET**  
COLLETS WITH COOLANT HOLES JET



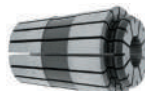
**PINZE PORTAMASCHI CON QUADRO ERX**  
TAPPING COLLETS WITH INTERNAL SQUARE ERX



**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 PORTAMASCHI - 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**

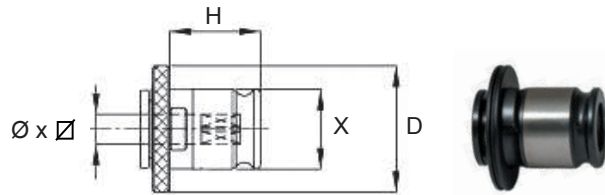
**1L**





**Bussole fisse senza frizione**

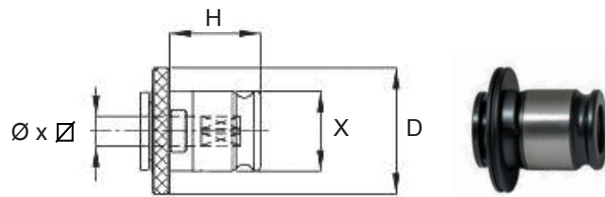
Quick change adaptors for tapping without safety clutch


**SE DIN**

CODICE	TIPO	CAP	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	48	55.5	70	
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**

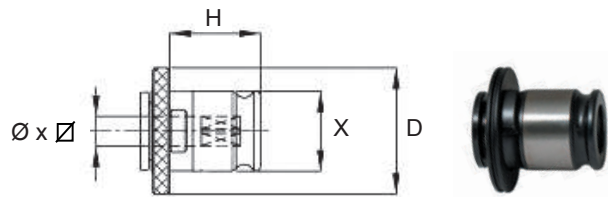
Quick change adaptors for tapping without safety clutch


**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
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**

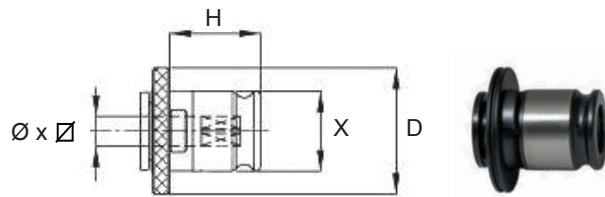
Quick change adaptors for tapping without safety clutch


**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**

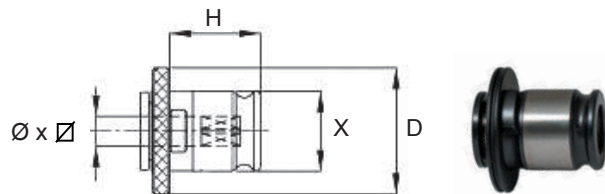
Quick change adaptors for tapping without safety clutch


**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**

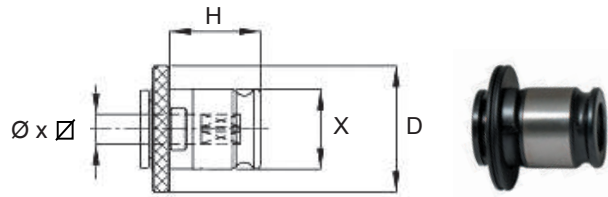
Quick change adaptors for tapping without safety clutch


**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	1.22	1.38	1.89	
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**

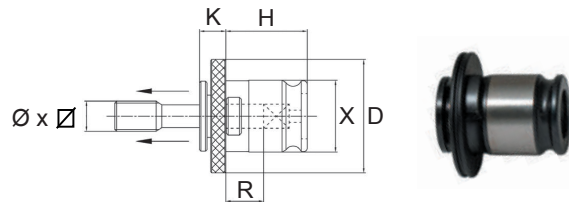
Quick change adaptors for tapping without safety clutch PIPE



**CER INCH**

CODICE	TIPO	MASCHIO	Ø x Ø	X	H	D	EUR
CER2-1/4P	2	1/4P	.5625 x .4221	1.22	1.38	1.89	
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	1.89	2.18	2.75	
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	2.36	2.47	3.54	
CER4-1-1/2P		1-1/2P	1.50 x 1.125				

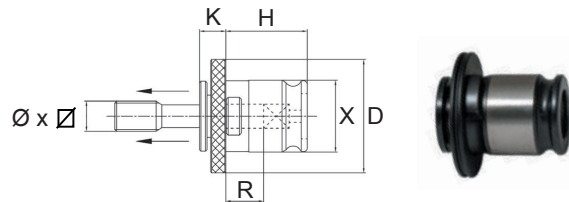
**Bussole fisse senza frizione con passaggio del refrigerante**  
 Quick change adaptors for tapping without safety clutch with coolant thru


**SEC DIN**

CODICE	TIPO	CAP	Ø x Ø	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 thru

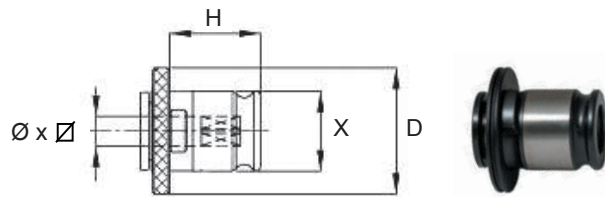

**CEC INCH**

CODICE	TIPO	MASCHIO	Ø x Ø	X	H	D	K	R	EUR
CEC1-#6	1	#6	.141 x .110	0.75	0.85	1.18	0.27	0.39	
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
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	0.55	1.18	
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	1.65	1.14	
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**

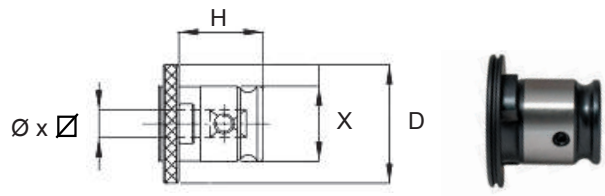
Quick change adaptors for tapping without safety clutch with coolant thru PIPE


**CERC INCH**

CODICE	TIPO	MASCHIO	Ø X Ø	X	H	D	EUR
CERC2-1/4P	2	1/4P	.5625 x .4221	1.22	1.38	1.89	
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	1.89	2.18	2.75	
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	2.36	2.47	3.54	
CERC4-1-1/2P		1-1/2P	1.50 x 1.125				

**Bussole fisse a fissaggio manuale**

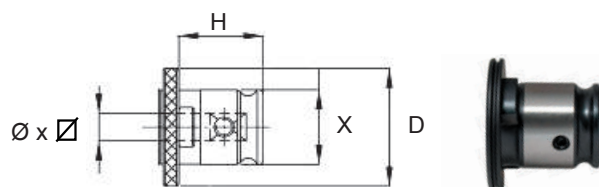
Positive drive with set screws


**SEK DIN**

CODICE	TIPO	CAP	Ø X Ø	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**

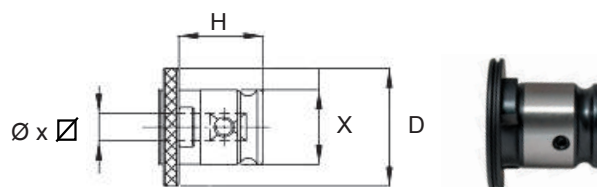
Positive drive with set screws


**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 9	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 in pollici**

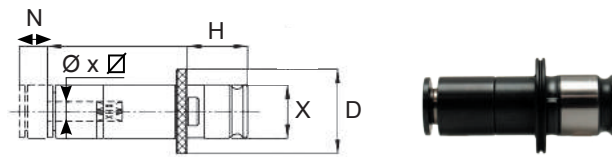
Inch positive drive with set screws


**CEK INCH**

CODICE	TIPO	MASCHIO	Ø X Ø	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 fisse allungabili**

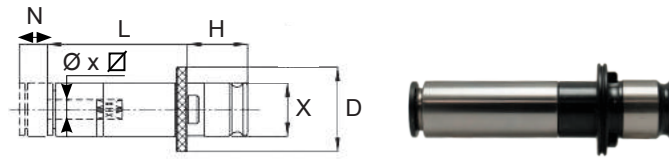
Positive drive length adjustable tap collets


**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					
SEN1-7 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
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

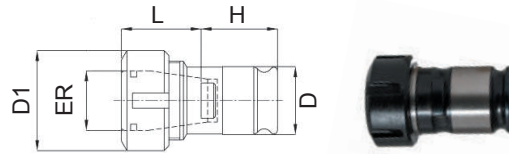

**NV DIN**

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**

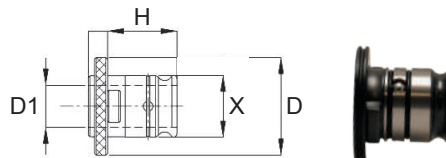
Positive drive er collet adapters


**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**

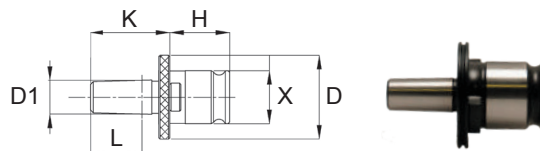
Tap Collet Reducers


**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			19			
SER3/1	3	48	19	55.5	70	
SER3/2			31			
SER4/2	4	60	31	62.8	90	
SER4/3			48			

**Bussole fisse attacco DIN/238**

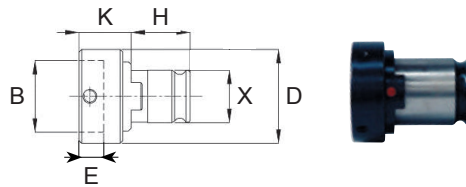
Positive drive tap collets DIN/238


**SEB DIN**

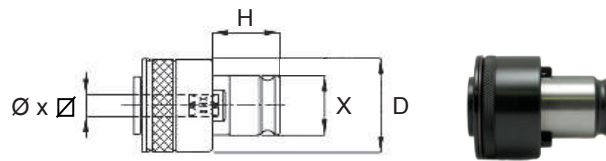
CODICE	TIPO	CAP	B	D	H	X	K	D1	L	EUR
SE1-B12	1	M3 ÷ M12	B12	30	21.5	19	28.5	12.065	18.5	
SE1-B16			B16				35.5	15.733	24.0	
SE1-J1			J1				23.962	9.754	16.669	
SE1-J2			J2				29.518	14.199	22.225	
SE2-B12	2	M8 ÷ M20	B12	48	35	31	29.5	12.065	18.5	
SE2-B16			B16				36.5	15.733	24.0	
SE2-B18			B18				44.5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

**Bussole portafiliera**

Die holder positive drive tap collets

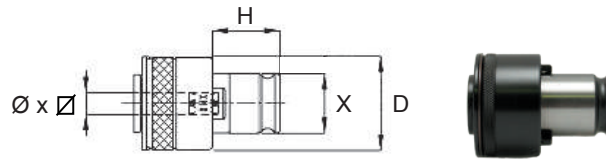

**SEF**

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**  
 Torque Control Tap Collets

**SES DIN**

CODICE	TIPO	CAP	Ø x Ø	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				
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	48	55.5	72	
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					

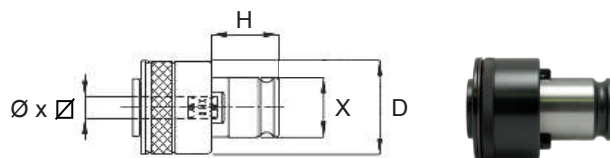


**Bussole con frizione**  
 Torque Control Tap Collets

**SES ISO**

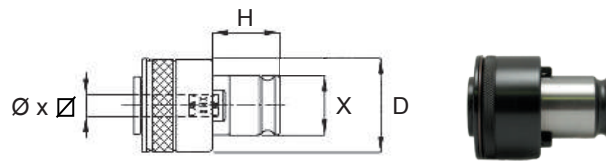
CODICE	TIPO	CAP	Ø x Ø	X	H	D	EUR
SES0-2.24 x 1.8	0	M3	2.24 x 1.8	13	19.5	24	
SES0-2.5 x 2		M2 - M3.5	2.5 x 2				
SES0-2.8 x 2.24		M2.2 - M2.5	2.8 x 2.24				
SES0-3.15 x 2.5		M3 - M4	3.15 x 2.5				
SES0-3.55 x 2.8		M3.5 - M4.5	3.55 x 2.8				
SES0-4 x 3.15		M4 - M5	4 x 3.15				
SES0-4.5 x 3.55		M4.5 - M4.6	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**

Torque Control Tap Collets


**SES ISO**

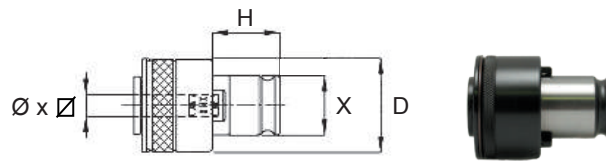
CODICE	TIPO	CAP	Ø X ∅	D	H	X	EUR
SES3-11.2 x 9	3	M14	11.2 x 9	48	55.5	72	
SES3-12.5 x 10		M16	12.5 x 10				
SES3-14 x 11.2		M18 - M20	14 x 11.2				
SES3-16 x 12.5		M22	16 x 12.5				
SES3-18 x 14		M24	18 x 14				
SES3-20 x 16		M30	20 x 16				
SES3-22.4 x 18		M33	22.4 x 18				
SES3-25 x 20		M33 - M36	25 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**  
 Torque Control Tap Collets

**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**

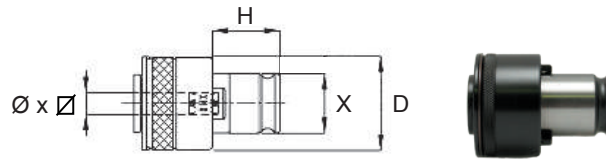
Torque Control Tap Collets with safety clutch


**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**

Torque Control Tap Collets with safety clutch PIPE

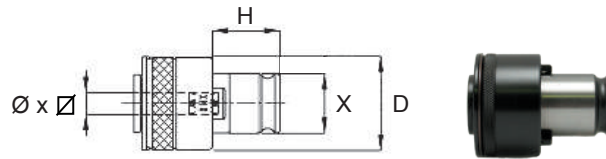


**CESR INCH**

CODICE	TIPO	MASCHIO	Ø x Ø	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				

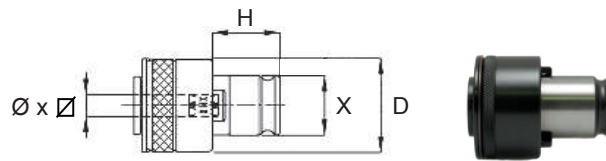
**Bussole con frizione con passaggio del refrigerante**

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


**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							

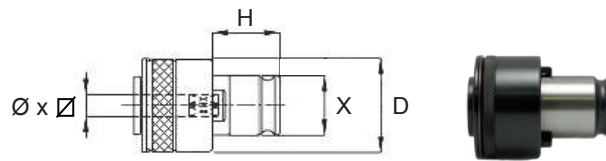
**Bussole con frizione con passaggio del refrigerante in pollici**  
 Quick change adaptors for tapping with safety clutch and with coolant thru


**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**

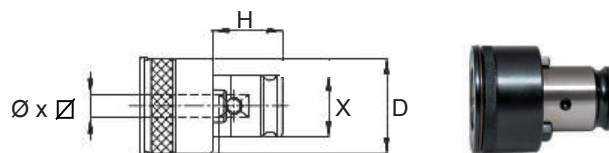
Quick change adaptors for tapping with safety clutch and with coolant thru PIPE


**CESRC INCH**

CODICE	TIPO	MASCHIO	Ø X Ø	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**

Torque Control Tap Collets with set screws

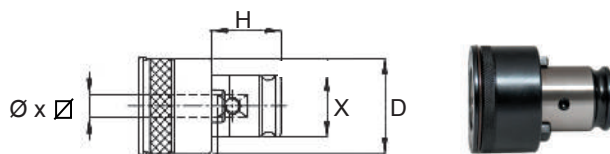

**SESK DIN**

CODICE	TIPO	CAP	Ø X Ø	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**

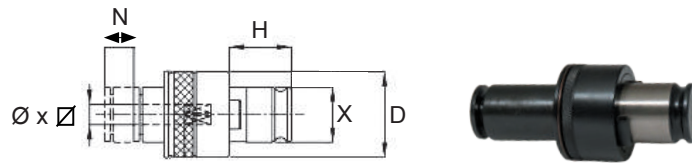
Torque Control Tap Collets with set screws


**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**

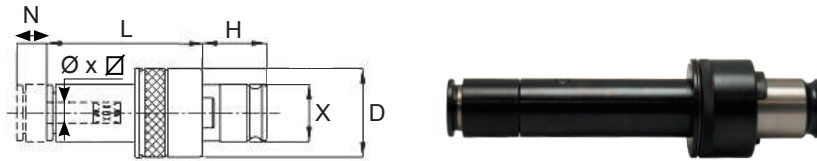
Torque control length adjustable tap collets


**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
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					

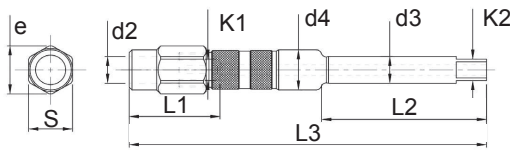
**Bussole con frizione allungabili tipo prolungato**

Quick change adaptors for tapping with length adjustment


**SNV DIN**

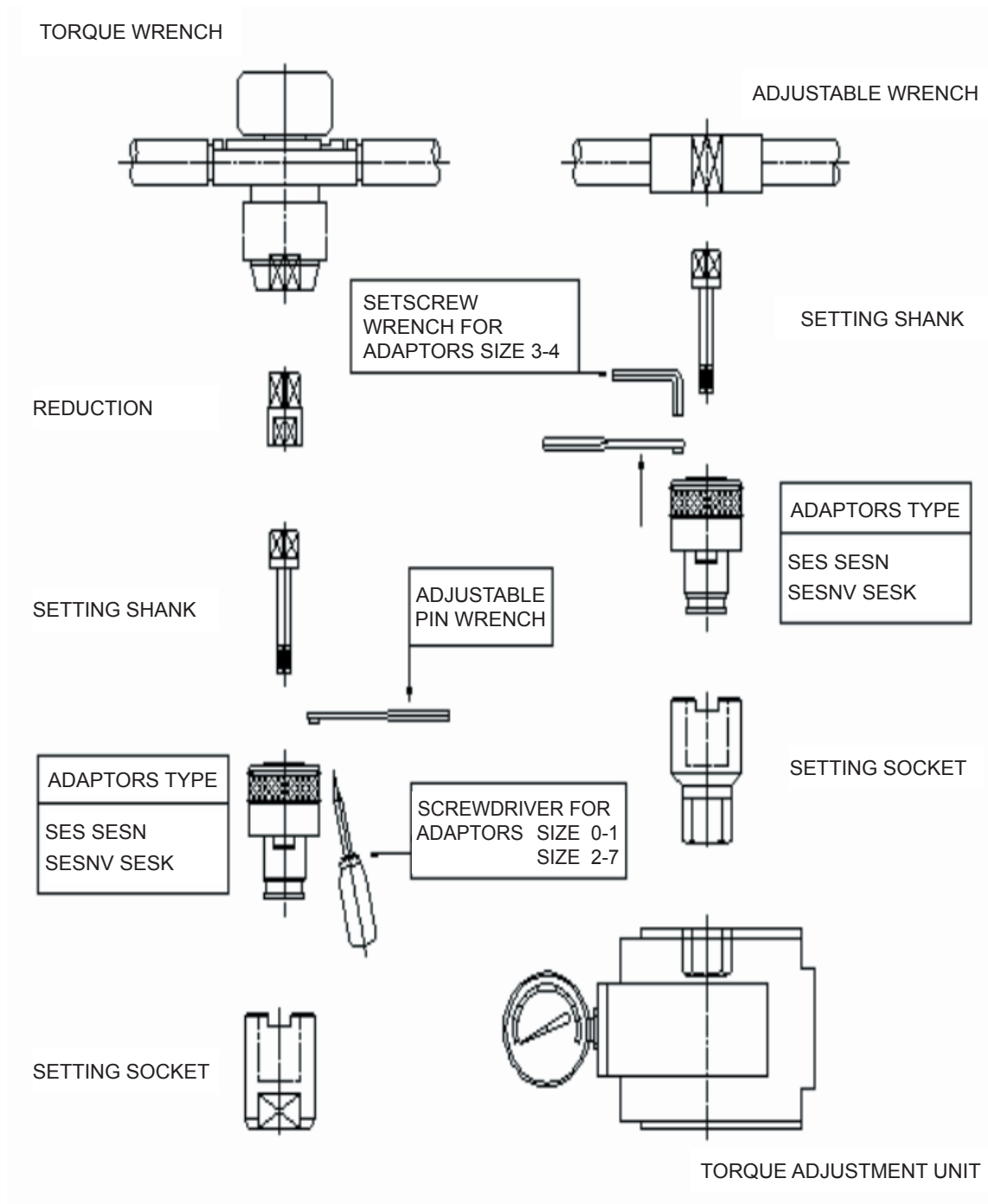
CODICE	TIPO	CAP	Ø x ∇	X	H	D	N	L	EUR
SNV0-2.5 x 2.1	0	M1 - 1.8	2.5 x 2.1	13	19.5	24	8	40 ÷ 120	
SNV0-2.8 x 2.1		M2 - 2.2 - 2.5 - 4	2.8 x 2.1						
SNV0-3.5 x 2.7		M3	3.5 x 2.7						
SNV0-4 x 3		M3.5	4 x 3						
SNV0-4.5 x 3.4		M4	4.5 x 3.4						
SNV0-6 x 4.9		M5 - 6 - 8	6 x 4.9						
SNV0-7 x 5.5		M10	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 thru

**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 Tension and Compression



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

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

<b>KIT.WS25-TLR1-L37 + SE</b>		<b>EUR</b>
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)	

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

<b>KIT.WS25-TLR2-L56 + SE</b>		<b>EUR</b>
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

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

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

**KIT SE**

KIT SE

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

<b>KIT.F.SE2</b>		<b>EUR</b>
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

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

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

**KIT cambi rapidi DIN 228B**

KIT Quick change chuck DIN 228B

<b>KIT.CM2B/QC2</b>		<b>EUR</b>
N°1	<b>Mandrino Cambio Rapido</b> (CM2B/QC2)	
N°1	<b>Portapinza</b> (QC2/ER16)	
N°1	<b>Cono Morse</b> (QC2/CM1B)	
N°1	<b>Cono Morse</b> (QC2/CM2B)	
N°1	<b>Mandrino</b> (QC2/TC1)	
N°1	<b>Cambio Rapido</b> (QC2/B16)	

<b>KIT.CM3B/QC3</b>		<b>EUR</b>
N°1	<b>Mandrino Cambio Rapido</b> (CM3B/QC3)	
N°1	<b>Portapinza</b> (QC3/ER32)	
N°1	<b>Cono Morse</b> (QC3/CM1B)	
N°1	<b>Cono Morse</b> (QC3/CM2B)	
N°1	<b>Mandrino</b> (QC3/CM3B)	
N°1	<b>Cambio Rapido</b> (QC3/TC2)	

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

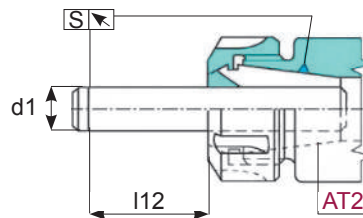
**Pinze**  
Collets



<b>CODICE</b>	<b>D mm min-max</b>	<b>CAPACITÀ DI SERRAGGIO mm</b>	<b>A</b>	<b>a AT3</b>	<b>L</b>
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



<b>d1 - h5</b>		<b>l12</b>	<b>STANDARD</b>	
<b>Minimo</b>	<b>Massimo</b>		<b>mm Min.</b>	<b>mm Max.</b>
<b>mm</b>	<b>mm</b>	<b>mm</b>		
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



**ER8**

↗ 0,010 ÷ 0,015

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	

**ER11**

↗ 0,010 ÷ 0,015

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	
ER16.D.11	11	÷	10	
ER16.D.12	12	÷	11	

**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 <b>KIT Fig. 1</b>	
BX.ER25-15 <b>BOX Fig. 2</b>	
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 <b>Fig. 1</b>	
BX.ER32-18 <b>Fig. 2</b>	
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**

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

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**

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

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**

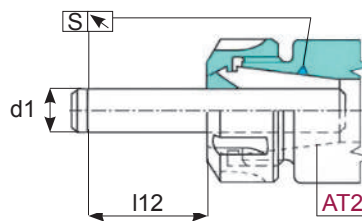
$\nabla 0,010 \div 0,015$

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



d1 - h5		l12	HP S max
Minimo	Massimo		
mm	mm	mm	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	

**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 tenuta refrigerante con inserti in neoprene ERXG**

Rubber sealed collets



**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	
ERXG11.D.8	8	

**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	

**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	



DISPONIBILI MEZZE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI.  
HALE SIZES AVAILABLE CALL YOUR DEALER FOR MORE DETAILS

**Pinze tenuta refrigerante con inserti in neoprene ERXG**

Rubber sealed collets



**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	

**Cassetta per pinze / Kit in Box**

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



**Kit di pinze / Kit in Tray**

CODICE	EUR
TY.ERXG25-6	
D. 4 - 6 - 8 - 10 - 12 - 16	



**Cassetta per pinze / Kit in Box**

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



DISPONIBILI MEZZE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI.  
HALE SIZES AVAILABLE CALL YOUR DEALER FOR MORE DETAILS

**Pinze tenuta refrigerante con inserti in neoprene ERXG**

Rubber sealed collets



**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
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
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



DISPONIBILI MEZZE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI.  
HALE SIZES AVAILABLE CALL YOUR DEALER FOR MORE DETAILS

**Pinze tenuta refrigerante con inserti in neoprene ERXG**

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
BX.ERXG50-12	
D. 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30	
D. 32 - 34	





**Pinze a tenuta meccanica**  
Solid sealed collets



**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	

**SU RICHIESTA**

**ER16-SSC**

**ERC16-SSC**

**ER20-SSC**

**ERC25-SSC**

**Cassetta per pinze / Kit in Box**

CODICE	EUR
BX.ERC25SSC-14	
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	

**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	

**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-5	BOX Fig. 1	
D. 3 - 4 - 5 - 6 - 7		
BX.ERC20JET-8	BOX Fig. 1	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10		
BX.ERC25JET-12	BOX Fig. 1	
D. 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 13 - 14		
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		
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		

**Fig. 1**



**Fig. 2**



**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.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	
ERX40M.D.22	M30	22	x	18	
ERX40M.D.25	M33	25	x	20	

#### 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	M6	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.5	M5	5	x	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.5	M5	5	x	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	
ERXG16M.D.5	M5	5	x	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	
ERXG16M.D.5	M5	5	x	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**

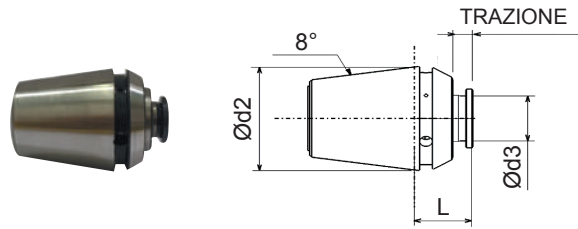
CODICE	Ø Alesatore	EUR
ERC32PA.D.4	4	
ERC32PA.D.5	5	
ERC32PA.D.6	6	
ERC32PA.D.7	7	
ERC32PA.D.8	8	
ERC32PA.D.9	9	
ERC32PA.D.10	10	
ERC32PA.D.11	11	
ERC32PA.D.12	12	
ERC32PA.D.13	13	

**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 con trazione a cambio rapido**

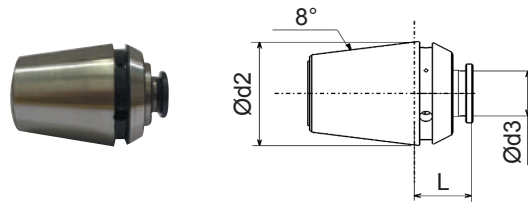
Quick change traction ERT collets


**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	M12			9	7					
9.ERT25 9 x 7.1	M12			9	7.1					
9.ERT25 10 x 8	M10			32	18.5		10	8	10	
9.ERT32 2.8 x 2.1	M2.5						2.8	2.1		
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							

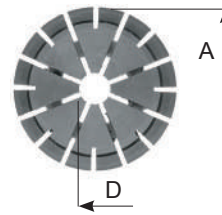
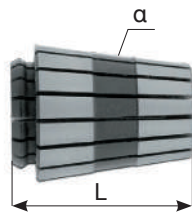


**Pinze fisse a cambio rapido**  
 Quick change traction ERT collets


**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	2.1	
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**

<b>CODICE</b>	<b>D mm min-max</b>	<b>CAPACITÀ DI SERRAGGIO mm</b>	<b>A</b>	<b>α AT3</b>	<b>L</b>
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

<b>d1 - h5</b>		<b>l12</b>	<b>S max</b>
<b>Minimo</b>	<b>Massimo</b>		
<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>
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 lenght of bore.

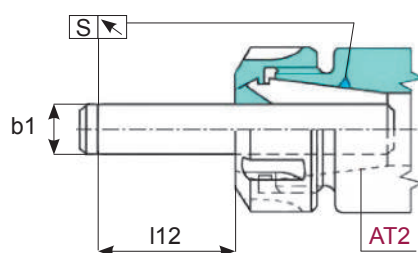
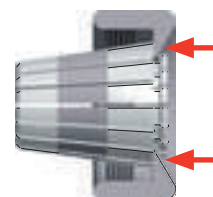


Fig. 1



**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	

\* ERCD = Compatibile con pinze ERC DIN/6499

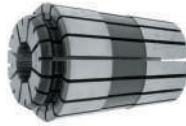
**ERCD20**

↗ 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	

**Pinze di precisione**  
Precision collets

**Pinze di precisione**  
Precision collets



**ERCD25**

↗ 0,010

CODICE	CAPACITÀ			EUR
ERCD25.D.2	2	÷	1	
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	

✱ ERCD = Compatibile con pinze ERC DIN/6499

**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	

**Pinze di precisione**

Precision collets


**ERCD40**
 $\nabla 0,010 \div 0,015$ 

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	

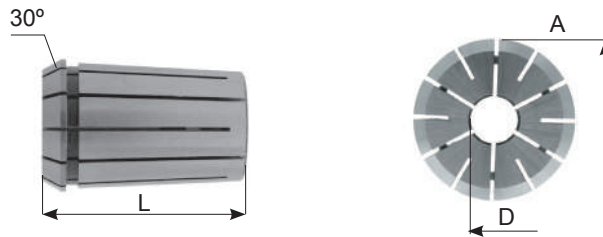

**Chiavi per Ghiere esagonali**

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**

<b>CODICE</b>	<b>D mm min-max</b>	<b>CAPACITÀ DI SERRAGGIO mm</b>	<b>A</b>	<b>L</b>
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

<b>CODICE</b>	<b>CAPACITÀ</b>			<b>EUR</b>
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	

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

**Pinze di precisione STANDARD**

Standard precision collets


**EOC25B**

✓ 0,010 ÷ 0,015

<b>CODICE</b>	<b>CAPACITÀ</b>			<b>EUR</b>
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	



**Pinze di precisione STANDARD**

Standard precision collets



**EOC32B**

↙ 0,010 ÷ 0,015

<b>CODICE</b>	<b>CAPACITÀ</b>			<b>EUR</b>
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	

**Ghiere STANDARD**

Friction bearing nuts without

**GOC**

CODICE	FAM	D	M x P	Nm	EUR
G16OCC	1	43	M33 x 1.5	85	
G20OCC		50	M42 x 2.0	-	
G25OCC		60	M48 x 2.0	140	
G25OCL <i>Filetto sinistro</i>		60	M48 x 2.0	140	
G32OCC		72	M60 x 2.5	170	
G40OCC		85	M68 x 2.5		


**Ghiere senza sfere**

EOC nuts without friction bearing

**GOCS**

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	

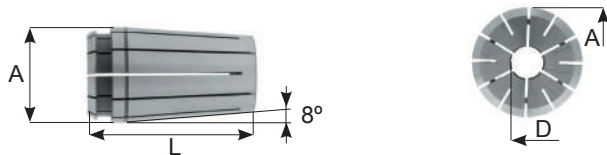

**Chiavi a settore  
 per ghiere chiudipinza**

Hook wrenches for clamping nuts

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



**Pinze Tipo "TG"**  
"TG" Collets Type

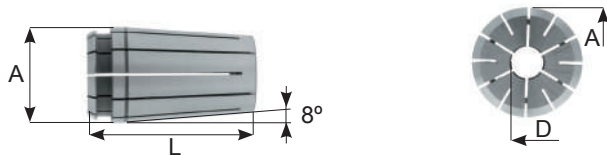


**TG75**

CODICE	FAM	A	L	CAPACITÀ DI SERRAGGIO	EUR
75TG030M					
75TG040M					
75TG050M					
75TG060M					
75TG070M					
75TG080M					
75TG090M					
75TG100M					
75TG110M	2	27	46.9	0.5 mm	
75TG120M					
75TG130M					
75TG140M					
75TG150M					
75TG160M					
75TG170M					
75TG180M					
75TG190M					
75TG200M					

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

**Pinze Tipo "TG"**  
"TG" Collets Type

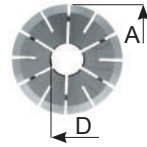
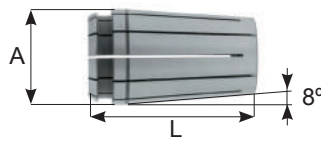


**TG100**

CODICE	FAM	A	L	CAPACITÀ DI SERRAGGIO	EUR
100TG030M					
100TG040M					
100TG050M					
100TG060M					
100TG070M					
100TG080M					
100TG090M					
100TG100M					
100TG110M					
100TG120M					
100TG130M					
100TG140M	2	35	60.4	0.5 mm	
100TG150M					
100TG160M					
100TG170M					
100TG180M					
100TG190M					
100TG200M					
100TG210M					
100TG220M					
100TG230M					
100TG240M					
100TG250M					

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

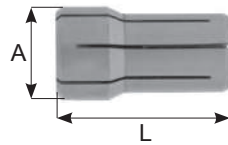
**Pinze Tipo "TG"**  
"TG" Collets Type



**TG150**

CODICE	FAM	A	L	CAPACITÀ DI SERRAGGIO	EUR
150TG120M					
150TG130M					
150TG140M					
150TG150M					
150TG160M					
150TG180M					
150TG190M					
150TG200M					
150TG210M					
150TG220M					
150TG230M					
150TG260M	2	50.08	76.2	0.5 mm	
150TG270M					
150TG280M					
150TG290M					
150TG300M					
150TG310M					
150TG320M					
150TG330M					
150TG340M					
150TG350M					
150TG360M					
150TG380M					

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**

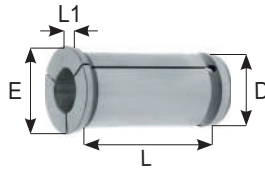
CODICE	FAM	CAPACITÀ			A	L	CAPACITÀ DI SERRAGGIO	EUR
DA300.D1	2	1.5	÷	6.0	9.52	25.4	0.5 mm	
DA300.D1.5								
DA300.D2								
DA300.D2.5								
DA300.D3								
DA300.D3.5								
DA300.D4								
DA300.D4.5								
DA300.D5								
DA300.D5.5								
DA300.D6								
DA200.D1	2	1.5	÷	10.0	13.69	30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



**3SR20**

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						

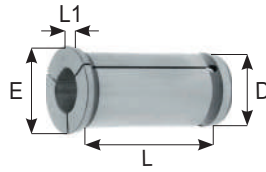
**3SR25**

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	2	25	30	55	5	
3SR25.D.13						
3SR25.D.14						
3SR25.D.15						
3SR25.D.16						
3SR25.D.17						
3SR25.D.18						
3SR25.D.19						
3SR25.D.20						
3SR25.D.21						



**Pinze cilindriche per mandrini a forte serraggio**

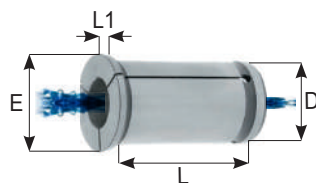
Collets for power milling chucks


**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**

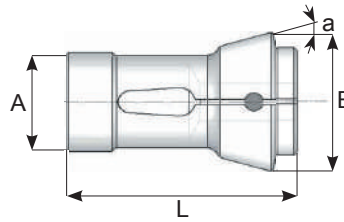
CODICE	FAM	D	E	L	L1	EUR
4SR20.D.4						
4SR20.D.5						
4SR20.D.6						
4SR20.D.8	1	20	25	50	5	
4SR20.D.10						
4SR20.D.12						
4SR20.D.16						

**4SR32**

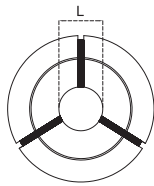
CODICE	FAM	D	E	L	L1	EUR
4SR32.D.6						
4SR32.D.8						
4SR32.D.10						
4SR32.D.12	1	32	37	64	5	
4SR32.D.16						
4SR32.D.20						
4SR32.D.25						

**Pinze DIN/6343**

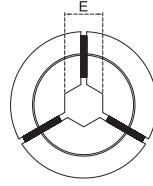
Collets for Single - Spindle lathes



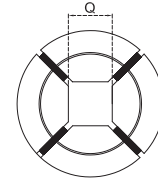
**Tipo (Tonda)**  
Type (Round)



**Tipo (Esagonali)**  
Type (Hexagonal)



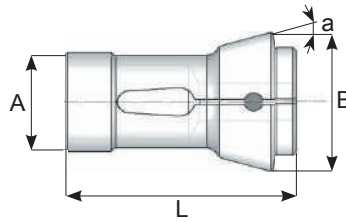
**Tipo (Quadre)**  
Type (Square)



Tonda	Esag.	Quadre	A	B	L	a				Einheits
1072	-	-	6,0	10,0	30,0	15°	4,5	-	-	I00E
5293	-	-	7,0	10,7	26,0	15°	5,0	-	-	1020E
0721	-	-	8,0	12,0	42,0	16°	6,5	-	-	101E
0725	0949	5000	10,0	15,5	47,5	20°	8,0	6,0	5,0	109E
5232	-	-	10,0	16,0	43,0	15°	7,0	-	-	110E
0749	-	-	12,0	17,0	27,0	20°	10,0	-	-	-
1132	-	-	12,0	18,0	64,0	16°	10,0	-	-	-
0940	0941	0943	13,0	19,0	64,0	16°	10,0	8,0	7,0	116E
0740	0741	0742	14,0	18,0	46,0	13°	10,0	9,0	8,0	117E
0722	0723	0724	15,0	21,0	64,0	16°	12,0	10,0	9,0	120E
5308	5309	5310	15,0	22,0	47,0	20°	11,0	9,0	8,0	121E
0913	0914	0915	16,0	22,0	55,0	15°	12,5	11,0	9,0	123E
0954	0955	0956	20,0	26,0	54,0	15°	16,0	12,0	10,0	136E
5299	5300	5301	20,0	27,5	60,0	15°	17,0	15,0	12,0	1299E
0937	0938	0939	20,0	28,0	67,0	16°	16,0	14,0	11,0	138E
0743	0744	0745	22,0	28,0	67,0	13°	16,0	14,0	12,0	139E
0705	0707	0706	22,0	30,0	55,0	15°	18,0	14,0	12,0	140E
5302	5303	5304	22,0	32,0	66,0	16°	17,0	14,0	12,0	1323E
0671	0672	0673	25,0	31,0	54,0	15°	21,0	18,0	15,0	143E
0717	0719	0718	25,0	35,0	77,0	16°	20,0	17,0	15,0	145E
0746	0747	0748	26,0	32,0	67,0	13°	20,0	18,0	15,0	146E
0901	0902	0903	27,0	38,0	72,7	15°	22,0	20,0	16,0	147E
0713	0715	0714	28,0	38,0	70,0	15°	23,0	20,0	17,0	148E
0931	0932	0933	30,0	38,0	65,0	15°	26,0	22,0	18,0	1446E
0727	0728	0729	30,0	42,0	80,0	16°	25,0	23,0	19,0	157E
0701	0703	0702	32,0	45,0	75,0	15°	26,0	24,0	20,0	161E
0615	0616	0617	35,0	43,0	70,0	15°	25,0	24,0	20,0	162E
0764	0766	0765	35,0	48,0	80,0	15°	30,0	27,0	22,0	163E
0970	0972	0973	37,0	47,0	92,0	16°	32,0	27,0	22,0	1536E
0837	0839	0838	38,0	50,3	86,0	15°	32,0	28,0	25,0	-
0919	0920	0921	38,1	49,0	107,5	15°	32,0	27,0	22,0	164E
0861	0862	0863	42,0	55,0	94,0	15°	37,0	32,0	26,0	171E
0709	0711	0710	48,0	60,0	94,0	15°	42,0	38,0	30,0	173E
0666	0667	0668	52,0	63,0	92,0	15°	46,0	38,0	32,0	-
2424	2425	2426	58,0	70,0	94,0	15°	52,0	45,0	36,0	177E
0759	0760	0761	66,0	84,0	110,0	15°	60,0	52,0	42,0	185E
0647	0648	0649	80,0	98,0	115,0	15°	70,0	60,0	50,0	-
0826	0829	0831	88,0	106,0	115,0	15°	80,0	68,0	56,0	190E
0851	0852	0853	90,0	107,0	130,0	15°	80,0	68,0	56,0	193E
0681	0683	0684	95,0	117,0	125,0	15°	80,0	68,0	56,0	-
0959	0962	0964	115,0	135,0	140,0	15°	100,0	86,0	70,0	-

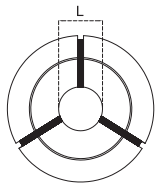
**Pinze DIN/6343**

Workholding collets



**Tipo (Liscio)**

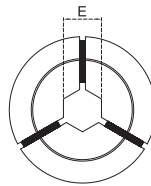
Type (Smooth)



CODICE	EUR
140E.D1L	
140E.D2L	
140E.D3L	
140E.D4L	
140E.D5L	
140E.D6L	
140E.D7L	

**Tipo (Esagonali)**

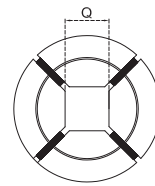
Type (Hexagonal)



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	

**Tipo (Quadre)**

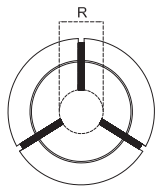
Type (Square)



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

**Tipo rigato**

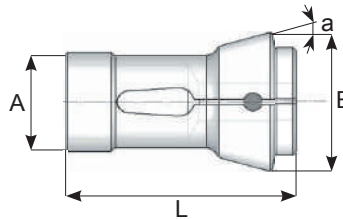
Type (Grooved)



CODICE	EUR
140E.D8R	
140E.D9R	
140E.D10R	
140E.D11R	
140E.D12R	
140E.D13R	
140E.D14R	
140E.D15R	
140E.D16R	
140E.D17R	
140E.D18R	

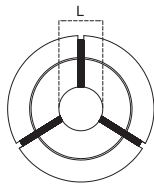
**Pinze DIN/6343**

Workholding collets



**Tipo (Liscio)**

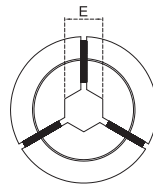
Type (Smooth)



CODICE	EUR
161E.D1L	
161E.D2L	
161E.D3L	
161E.D4L	
161E.D5L	
161E.D6L	
161E.D7L	

**Tipo (Esagonali)**

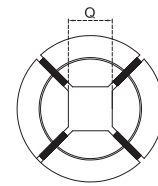
Type (Hexagonal)



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	

**Tipo (Quadre)**

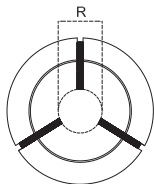
Type (Square)



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	

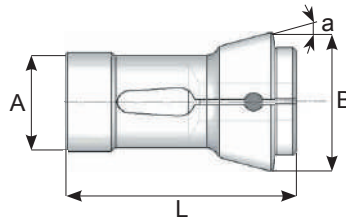
**Tipo (Rigato)**

Type (Grooved)

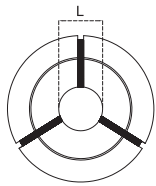


CODICE	EUR
161E.D8R	
161E.D9R	
161E.D10R	
161E.D11R	
161E.D12R	
161E.D13R	
161E.D14R	
161E.D15R	
161E.D16R	
161E.D17R	
161E.D18R	
161E.D20R	
161E.D21R	
161E.D22R	
161E.D23R	
161E.D24R	
161E.D25R	
161E.D26R	

**Pinze DIN/6343**  
Workholding collets

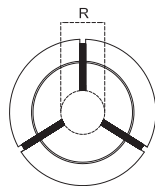


**Tipo (Liscio)**  
Type (Smooth)

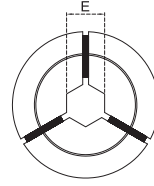


CODICE	EUR
173E.D3L	
173E.D4L	
173E.D5L	
173E.D6L	
173E.D7L	
173E.D8R	
173E.D9R	
173E.D10R	
173E.D11R	
173E.D12R	
173E.D13R	
173E.D14R	
173E.D15R	
173E.D16R	
173E.D17R	
173E.D18R	
173E.D19R	
173E.D20R	
173E.D21R	
173E.D22R	
173E.D23R	
173E.D24R	
173E.D25R	
173E.D26R	
173E.D27R	
173E.D28R	
173E.D29R	
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	

**Tipo (Rigato)**  
Type (Grooved)

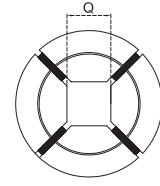


**Tipo (Esagonali)**  
Type (Hexagonal)



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	

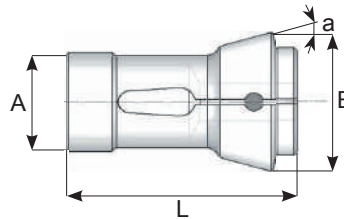
**Tipo (Quadre)**  
Type (Square)



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	

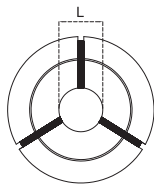
**Pinze DIN/6343**

Workholding collets



**Tipo (Liscio)**

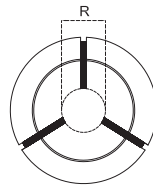
Type (Smooth)



CODICE	EUR
177E.D5L	
177E.D6L	
177E.D7L	

**Tipo (Rigato)**

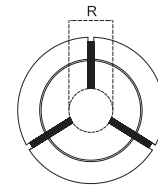
Type (Grooved)



CODICE	EUR
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	

**Tipo (Rigato)**

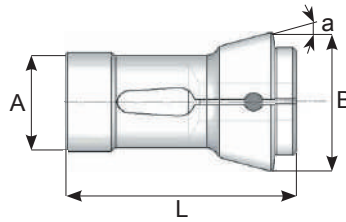
Type (Grooved)



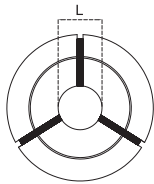
CODICE	EUR
177E.D40R	
177E.D41R	
177E.D42R	
177E.D43R	
177E.D44R	
177E.D45R	
177E.D46R	
177E.D47R	
177E.D48R	
177E.D49R	
177E.D50R	
177E.D51R	
177E.D52R	

**Pinze DIN/6343**

Workholding collets

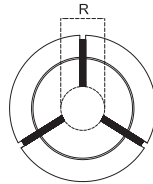


**Tipo (Liscio)**  
Type (Smooth)



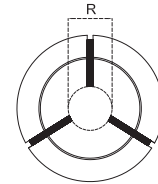
CODICE	EUR
185E.D6L	
185E.D7L	

**Tipo (Rigato)**  
Type (Grooved)



CODICE	EUR
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	

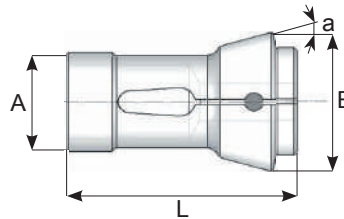
**Tipo (Rigato)**  
Type (Grooved)



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	

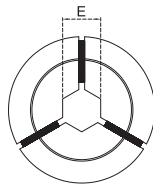
**Pinze DIN/6343**

Workholding collets



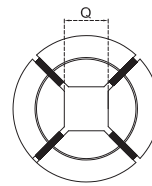
**Tipo (Esagonali)**

Type (Hexagonal)



**Tipo (Quadre)**

Type (Square)



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	



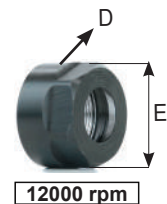
**Ghiere MINI - Filetto sinistro**

CODICE	D	M x P	*Nm	EUR
G11ML	16	M13 x 0.75	7 ÷ 17	
G16ML	22	M19 x 1.5	12 ÷ 24	
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**

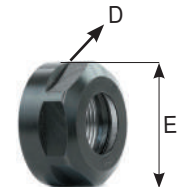
CODICE	D	M x P	*Nm	EUR
G16S	32	M22 x 1.5	15 ÷ 50	
G20S	35	M25 x 1.5	16 ÷ 75	
G25S	42	M32 x 1.5	25 ÷ 100	
G32S	50	M40 x 1.5	25 ÷ 140	
G40S	63	M50 x 1.5	60 ÷ 170	
G50S	78	M64 x 2	120 ÷ 250	
G32SL Filetto sinistro	50	M40 x 1.5	25 ÷ 120	
G40SL Filetto sinistro	63	M50 x 1.5	60 ÷ 170	



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 ER a sfere**  
Friction bearing ER nuts

**Ghiere - 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 ghiere  
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 ER concentriche

Concentric ER nuts

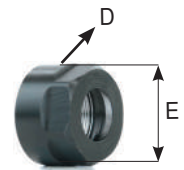
#### Ghiere ER mini concentriche

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 ER Esagonali concentriche

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 ER STANDARD concentriche

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 ER senza tacche**  
Notch-free ER

**Ghiere ER mini senza tacche**

CODICE	D	M x P	*Nm	EUR
G8NFM	12	M10 x 0.75	5 ÷ 6	
G11NFM	16	M13 x 0.75	7 ÷ 17	
G16NFM	24	M19 x 1	12 ÷ 24	
G20NFM	30	M24 x 1	16 ÷ 28	
G25NFM	37	M30 x 1	22 ÷ 32	



**Ghiere ER STANDARD senza tacche**

CODICE	D	M x P	*Nm	EUR
G16NF	32	M22 x 1.5	15 ÷ 50	
G20NF	35	M25 x 1.5	16 ÷ 75	
G25NF	42	M32 x 1.5	25 ÷ 100	
G32NF	50	M40 x 1.5	25 ÷ 140	
G40NF	63	M50 x 1.5	60 ÷ 170	



**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 senza tacche**

Torque wrenches with rollers for notch-free clamping nuts

CODICE	EUR
CD16NF	
CD20NF	
CD25NF	
CD32NF	
CD40NF	



\* Nm = Forza di serraggio consigliata  
Recommended tightening torque

**Ghiere MINI con disco di tenuta del refrigerante**

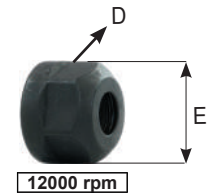
Nuts with seal disks Mini type

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

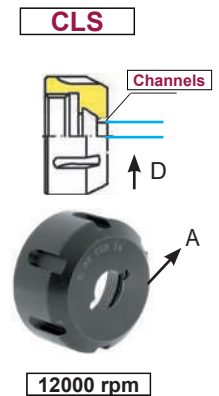
CODICE GHIERA	CODICE DISCO	RAGGIO	EUR
RG16	RG16 Ø4 - Ø10	x 1mm	
RG20	RG20 Ø4 - Ø13	x 1mm	
RG25	RG25 Ø4 - Ø16	x 1mm	
RG32	RG32 Ø4.5 - Ø20	x 1mm	
RG40	RG40 Ø4 - Ø26	x 1mm	



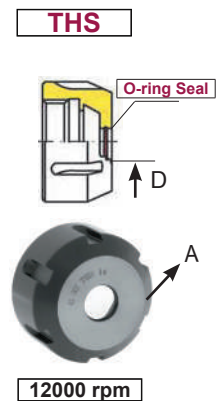
\* Nm = Forza di serraggio consigliata  
 Recommended tightening torque

**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**

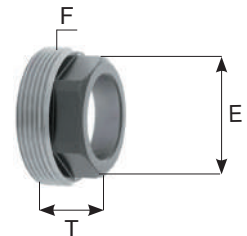
Externally threaded nuts

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	

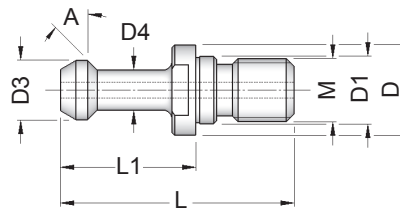


**Chiavi a settore  
per ghiera SKS**

Hook Wrenches for SKS nuts

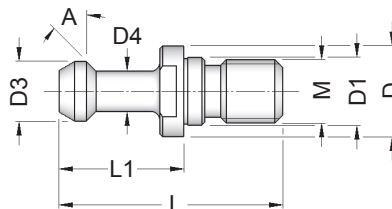
CODICE	EUR
CH10SKS	
CH16SKS	
CH20SKS	
CH25SKS	



**Tiranti con passaggio del refrigerante**  
 With coolant thru

**BT**

CODICE	FAM	A	M	L	L1	D	D1	D3	D4	EUR
PS.BT30.1F	1	45°	M12	43	23	16.5	12.5	11.0	7.0	
PS.BT30.2F		60°	M12	43	23	16.5	12.5	11.0	7.0	
PS.BT30.3F		90°	M12	43	23	16.5	12.5	11.0	7.0	
PS.BT40.1F		45°	M16	60	35	23.0	17.0	15.0	10.0	
PS.BT40.2F		60°	M16	60	35	23.0	17.0	15.0	10.0	
PS.BT40.3F		90°	M16	60	35	23.0	17.0	15.0	10.0	
PS.BT50.1F		45°	M24	85	45	38.0	25.0	23.0	17.0	
PS.BT50.2F		60°	M24	85	45	38.0	25.0	23.0	17.0	
PS.BT50.3F		90°	M24	85	45	38.0	25.0	23.0	17.0	

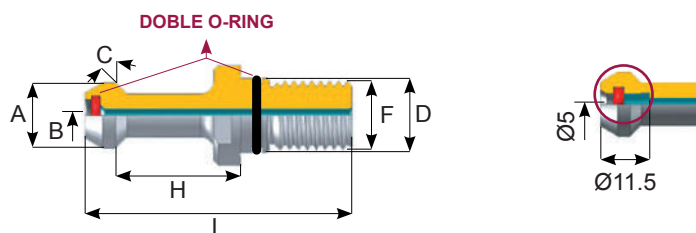
F = Foro

**Tiranti senza passaggio del refrigerante**  
 Without coolant thru

**BT**

CODICE	FAM	A	M	L	L1	D	D1	D3	D4	F	EUR
PS.BT30.1SF	1	45°	M12	43	23	16.5	12.5	11	7	2.5	
PS.BT30.2SF		60°	M12	43	23	16.5	12.5	11	7	2.5	
PS.BT30.3SF		90°	M12	43	23	16.5	12.5	11	7	2.5	
PS.BT40.1SF		45°	M16	60	35	23	17	15	10	4	
PS.BT40.2SF		60°	M16	60	35	23	17	15	10	4	
PS.BT40.3SF		90°	M16	60	35	23	17	15	10	4	
PS.BT50.1SF		45°	M24	85	45	38	25	23	17	6	
PS.BT50.2SF		60°	M24	85	45	38	25	23	17	6	
PS.BT50.3SF		90°	M24	85	45	38	25	23	17	6	

**Tiranti con doppio O-Ring per passaggio del refrigerante ad alta pressione**

Sealed pull studs with double O-Ring for high pressure coolant



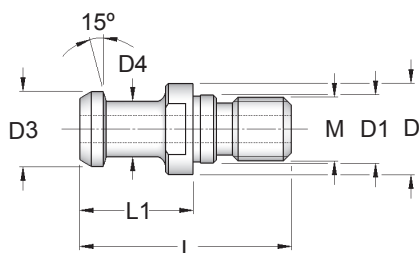
**BT**

CODICE	FAM	COD	F	C	D	A	H	L	B	FIG	EUR
PS.BT40.1.2OR	1	CD16012	M16	45°	17	15	28	60	3	1	
PS.BT40.2.2OR		CD16003	M16	45°	17	15	28	60	3	2	
PS.BT50.1.2OR		CD24026	M24	45°	25	23	35	85	6	1	
PS.BT50.2.2OR		CD24027	M24	60°	25	23	35	85	6	1	
PS.BT50.3.2OR		CD24024	M24	90°	25	23	35	85	6	1	

F = Foro

**Tiranti con passaggio del refrigerante senza O-Ring esterno**

Studs without external O-Ring Pull Studs with coolant bore



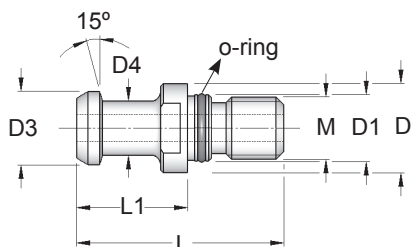
**JIS-B/6339**

CODICE	FAM	M	D	D1	D3	D4	L	L1	F	EUR
PS.JS30.F3	1	M12	16.5	12.5	12	8	43	23.4	4	

F = Foro senza O-Ring

**Tiranti con passaggio del refrigerante**

Pull stud bolts with coolant bore



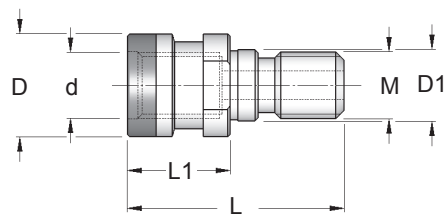
**JIS-B/6339**

CODICE	FAM	M	D	D1	D3	D4	L	L1	F	EUR
PS.JS40.F4	1	M16	23	17	19	14	54	29	4	
PS.JS40.F5		M16	23	17	19	14	54	29	7	
PS.JS50.F10		M24	38	25	28	21	74	34	10	

F = Foro

**Tiranti con foro refrigerante (BT-DIN2080)**

Pull stud with coolant thru (BT-DIN2080)

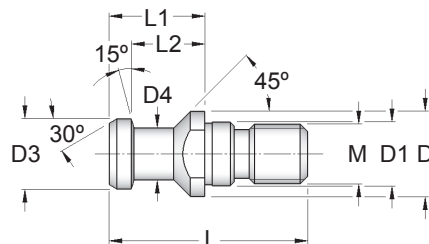


**OTT**

CODICE	FAM	M	d	D	D1	L1	L	EUR
PS.OTT40.TCF	1	M16	M16	25.3	17	25	53	
PS.OTT40.BTF		M16	M16	25.3	17	28	56	
PS.OTT50.TBF		M24	M24	39.6	25	25	65	

**Tiranti senza foro refrigerante**

Pull stud bolts without coolant thru

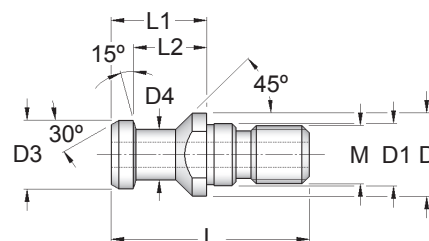


**DIN/69872**

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
PS.DIN30SF	1	M12	17	13	13	9	44	24	19	
PS.DIN40SF		M16	23	17	19	14	54	26	20	
PS.DIN50SF		M24	36	25	28	21	74	34	25	

**Tiranti con foro refrigerante (DIN/69872)**

Pull stud bolts with coolant thru (DIN/69872)



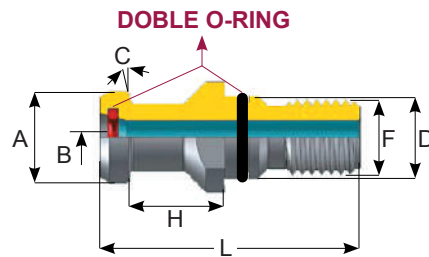
**DIN/69872**

CODICE	FAM	D	D1	D2	D3	D4	L	L1	L2	F	EUR
PS.DIN30F	1	M12	17	13	13	9	44	24	19	3.0	
PS.DIN40F		M16	23	17	19	14	54	26	20	7.0	
PS.DIN50F		M24	36	25	28	21	74	34	25	11.5	

F = Foro

**Tiranti con doppio O-Ring per passaggio del refrigerante ad alta pressione**

Sealed pull studs with double O-Ring for high pressure coolant



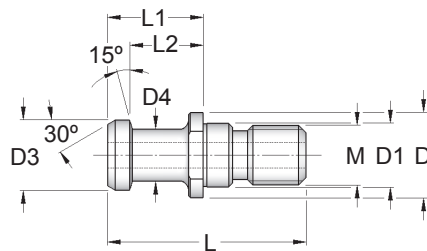
**DIN/69872**

CODICE	FAM	COD	F	C	D	A	H	L	B	EUR
PS.DIN40.2OR	1	CD16066	M16	15°	17	19	20	54	7	
PS.DIN40.2OR-BT		CD16067	M16	15°	17	19	23	54	7	
PS.DIN50.2OR		CD24017	M24	15°	25	28	25	74	11.5	

F = Foro

**Tiranti senza foro refrigerante**

Pull Stud bolts without coolant thru

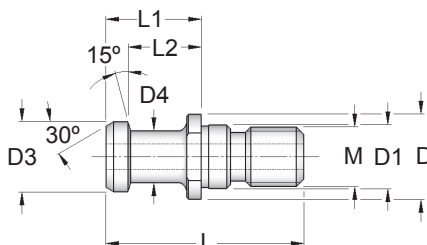


**ISO 7388/2-A**

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
PS.TC30SF	1	M12	16	13	12	8	44	24	19	
PS.TC40SF		M16	23	17	19	14	54	26	20	
PS.TC50SF		M24	36	25	28	21	74	34	25	

**Tiranti con foro refrigerante**

Pull stud bolts with coolant thru



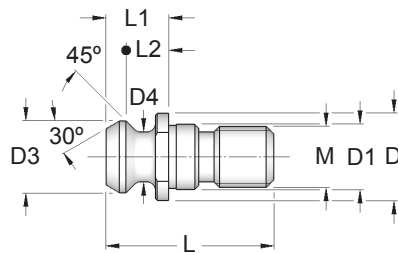
**ISO 7388/2-A**

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	F	EUR
PS.TC30F	1	M12	16	13	12	8	44	24	19	3.0	
PS.TC40F		M16	23	17	19	14	54	26	20	7.0	
PS.TC50F		M24	36	25	28	21	74	34	25	11.5	

F = Foro

**Tiranti senza foro refrigerante**

Pull stud bolts without coolant thru

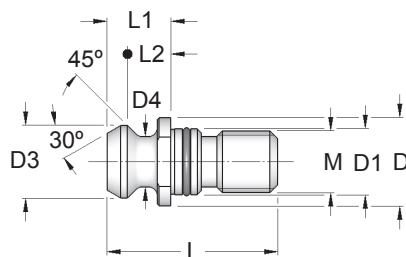


**ISO 7388/2-B**

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
PS.CAT30SF	1	M12	17.0	12.5	13.3	9.3	34.0	11.8	8.1	
PS.CAT40SF		M16	22.5	17.0	18.9	12.9	44.5	16.4	11.1	
PS.CAT50SF		M24	37.0	25.0	29.1	19.6	65.5	25.5	17.9	

**Tiranti con foro refrigerante ad alta pressione**

Pull stud bolts with watertight O-Ring for high pressure coolant



**ISO 7388/2-B**

CODICE	FAM	M	D	D1	D3	D4	L	L1	L2	EUR
PS.CAT30F	1	M16	22.5	17.0	18.9	12.9	44.5	16.4	11.1	
PS.CAT40F		M24	37.0	25.0	29.1	19.6	65.5	25.5	17.9	
PS.CAT50F		M24	37.0	25.0	29.1	19.6	65.5	25.5	17.9	

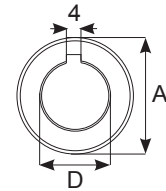
F = Foro



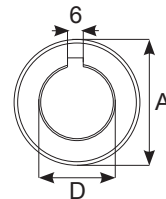
**Anelli distanziatori**  
 Spacers

**D16**

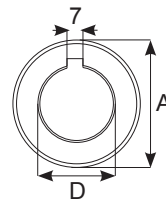
DIAMETRO					Ø	A	EUR
D16X0.03	D16X0.1	D16X0.5	D16X3.0	D16X10.0	16	26	
D16X0.04	D16X0.2	D16X0.6	D16X4.0	D16X20.0			
D16X0.05	D16X0.3	D16X1.0	D16X5.0	D16X30.0			
D16X0.06	D16X0.4	D16X2.0	D16X6.0				


**D22**

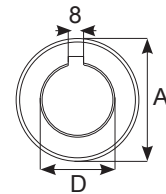
DIAMETRO					Ø	A	EUR
D22X0.03	D22X0.1	D22X0.5	D22X3.0	D22X10.0	22	34	
D22X0.04	D22X0.2	D22X0.6	D22X4.0	D22X20.0			
D22X0.05	D22X0.3	D22X1.0	D22X5.0	D22X30.0			
D22X0.06	D22X0.4	D22X2.0	D22X6.0	D22X60.0			


**D27**

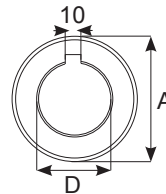
DIAMETRO					Ø	A	EUR
D27X0.03	D27X0.1	D27X0.5	D27X3.0	D27X10.0	27	40	
D27X0.04	D27X0.2	D27X0.6	D27X4.0	D27X20.0			
D27X0.05	D27X0.3	D27X1.0	D27X5.0	D27X30.0			
D27X0.06	D27X0.4	D27X2.0	D27X6.0	D27X60.0			


**D32**

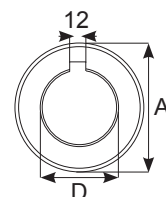
DIAMETRO					Ø	A	EUR
D32X0.03	D32X0.1	D32X0.5	D32X3.0	D32X10.0	32	46	
D32X0.04	D32X0.2	D32X0.6	D32X4.0	D32X20.0			
D32X0.05	D32X0.3	D32X1.0	D32X5.0	D32X30.0			
D32X0.06	D32X0.4	D32X2.0	D32X6.0	D32X60.0			


**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	
ATR.D40		70	

**Chiavette per portafrese 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	
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 thru



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/6368)**

Spanners for cross screws (DIN/6388)

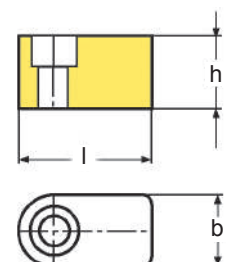


CODICE	FAM	M	EUR
SP16C	1	8	
SP22C		10	
SP27C		12	
SP32C		16	
SP40C		20	
SP60C		24	

**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 CONI**

Spindle taper wipers



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

**Tamponi pulitori interni Conomorse**

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 HSK**

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	

**Basi di legno per Pinze**

Empty Racks for COLLETS



CODICE	FAM	MODELLO	EUR
TYE.11.18	1	ER11	
TYE.16.15		ER16	
TYE.20.15		ER20	
TYE.25.6		ER25	
TYE.25.21		ER25	
TYE.32.6		ER32	
TYE.32.21		ER32	
TYE.40.10		ER40	
TYE.40.30		ER40	
TYE.50.12		ER50	

**Raccordo per il passaggio  
del refrigerante HSK**

HSK - cooling tube



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

**Chiavi per raccordo HSK**

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**

WELDON DIN 1835  
CYLINDRICAL - VDI DIN 69880  
TOOLHOLDERS

**2**





# MANDRINI ATTACCO WELDON DIN 1835 CILINDRICO - VDI DIN 69880

WELDON DIN 1835 CYLINDRICAL -  
VDI DIN 69880 TOOLHOLDERS



**MANDRINI A CAMBIO RAPIDO**  
QUICK CHANGE TOOLHOLDERS



**MANDRINI A CAMBIO RAPIDO PASSAGGIO DEL REFRIGERANTE**  
COOLANT QUICK CHANGE TOOLHOLDERS



**MANDRINI RIGIDI**  
RIGID TOOLHOLDERS



**MANDRINI RIGIDI PASSAGGIO DEL REFRIGERANTE**  
COOLANT RIGID TOOLHOLDERS



**MANDRINI CAMBIO RAPIDO ABS**  
ABS QUICK CHANGE TOOLHOLDERS



**MANDRINI CAMBIO RAPIDO CILINDRICI**  
QUICK CHANGE CYLINDRICAL TOOLHOLDERS



**MANDRINI CAMBIO RAPIDO DIN/6885 DS**  
DIN/6885 DS QUICK CHANGE TAPHOLDERS

**2A**



**MANDRINI SYNCHRO PORTAPINZA**  
SYNCHROFER ER TOOLHOLDERS



**MANDRINI SYNCHRO CAMBIO RAPIDO**  
QUICK CHANGE SYNCHROFER TOOLHOLDERS

**2B**



**MANDRINI A CAMBIO RAPIDO VDI**  
VDI QUICK CHANGE TOOLHOLDERS



**PROLUNGHE A CALETTAMENTO**  
STRAIGHT SHANK SHRINK FIT EXTENSIONS



**MANDRINI IDRAULICI CILINDRICI**  
CYLINDRICAL HYDRAULIC CHUCKS

**2C**



**MANDRINI IDRAULICI VDI**  
VDI HYDRAULIC CHUCKS

# MANDRINI ATTACCO WELDON DIN 1835 CILINDRICO - VDI DIN 69880

WELDON DIN 1835 CYLINDRICAL -  
VDI DIN 69880 TOOLHOLDERS



**PORTAPINZA CILINDRICO**  
STRAIGHT SHANK TAPER HOLDERS

**2D**



**MANDRINI PORTAPUNTE**  
STRAIGHT SHANK DRILL CHUCK



**PORTAALESATORE FLOTTANTE**  
FLOATING REAMER HOLDER

**2E**



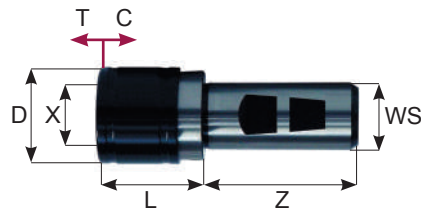
**MANDRINI PORTABROCCE**  
BROACH TOOLHOLDERS

**2F**



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

Weldon DIN/1835 B+E - Tension/Compression tapholders


**WELDON**

CODICE	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-L42	40				80				42
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**

CODICE	WS	CAP	X	D	Z	L	T	C	EUR
WS1000-THTC1-1.53	1	M3 ÷ M12	0.74	1.41	2.28	1.53	0.295	0.295	
WS1250-THTC1-1.61	1.25		0.74			1.61			
WS1000-THTC2-2.48	1	M8 ÷ M20	1.22	2.08		2.48	0.49	0.49	
WS1250-THTC2-2.48	1.25		1.22			2.48			
WS1250-THTC3-5.00	1.25	M14 ÷ M33	1.88	3.07	5.00	0,787	0,787		
WS1500-THTC3-4.65	1.50		1.88		2.68			4.65	

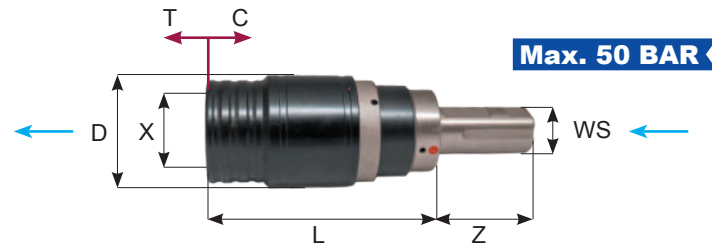
**Mandrini con solo trazione Weldon DIN/1835 B+E**

Weldon DIN/1835 B+E - Tension tapholders

**WELDON**

CODICE	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-L42	40				68				42
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  
 Coolant thru Tension/Compression tapholders

**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	

**Mandrini con compensazione e trazione Weldon INCH con  
 passaggio del refrigerante centrale**

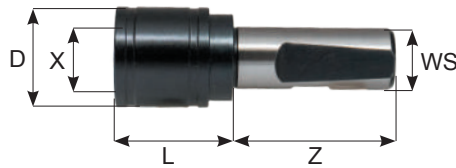
 Weldon INCH  
 Coolant thru Tension/Compression tapholders

**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 tapholders


**WELDON**

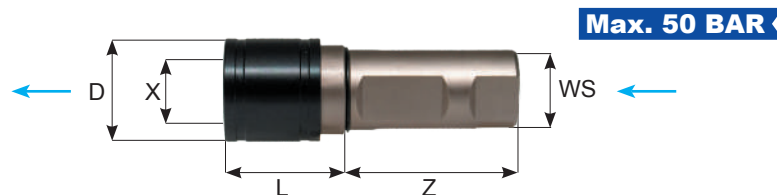
CODICE	WS	CAP	X	D	L	Z	EUR
WS20-TLR1-L37	20	M3 ÷ M12	19	32	37	51	
WS25-TLR1-L37	25	M3 ÷ M12	19	32	37	53	
WS25-TLR2-L56	25	M8 ÷ M20	31	50	56	53	
WS32-TLR2-L56	32	M8 ÷ M20	31	50	56	60	
WS25-TLR3-L83	25	M14 ÷ M33	48	72	83	53	
WS32-TLR3-L83	32	M14 ÷ M33	48	72	83	60	
WS32-TLR4-L106	32	M22 ÷ M48	60	95	106	60	

**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 coolant thru tapholders


**WELDON**

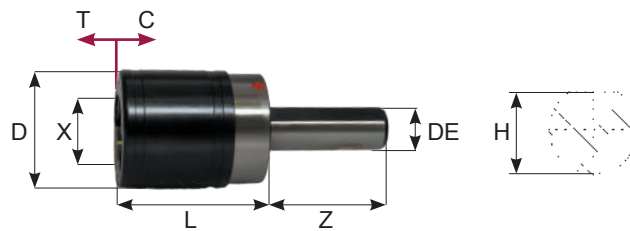
CODICE	WS	CAP	X	D	Z	L	EUR
WS20-TLR1-L38C	20	M3 ÷ M12	19	32	53	38	
WS25-TLR1-L38C	25	M3 ÷ M12	19	32	53	38	
WS25-TLR2-L54C	25	M8 ÷ M20	31	50	53	54	
WS32-TLR2-L54C	32	M8 ÷ M20	31	50	60	54	
WS32-TLR3-L83C	32	M14 ÷ M33	48	72	60	83	

**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 tapholders

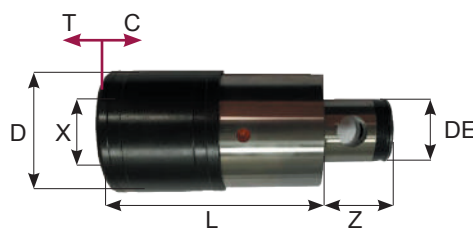

**CILINDRICO**

CODICE	DE	H	CAP	X	D	Z	L	T	C	EUR
DE16-THTC0-L37	16	15	M1 ÷ M10	13	26	56	37	6.5	6.5	
DE20-THTC0-L37	20	18.5								
DE16-THTC1-L39	16	15	M3 ÷ M12	19	36	58	39	7.5	7.5	
DE20-THTC1-L39	20	18.5								
DE25-THTC1-L39	25	23								
DE30-THTC1-L39	30	28.5								
DE32-THTC1-L39	32	30.5								
DE40-THTC1-L39	40	38.5								
DE20-THTC2-L63	20	18.5	M8 ÷ M20	31	53	58	63	12.5	12.5	
DE25-THTC2-L63	25	23								
DE30-THTC2-L63	30	28.5				77	63	12.5	12.5	
DE32-THTC2-L63	32	30.5								
DE35-THTC2-L63	35	33.5								
DE40-THTC2-L63	40	38.5								
DE25-THTC3-L98	25	23	M14 ÷ M33	48	78	100	98	20	20	
DE30-THTC3-L98	30	28.5								
DE32-THTC3-L98	32	30.5								
DE35-THTC3-L98	35	33.5								
DE40-THTC3-L98	40	38.5								

Disponibile anche solo trazione. Also available only tension.

**Mandrini ABS con compensazione e trazione**

Tension/Compression tapholders ABS


**ABS**

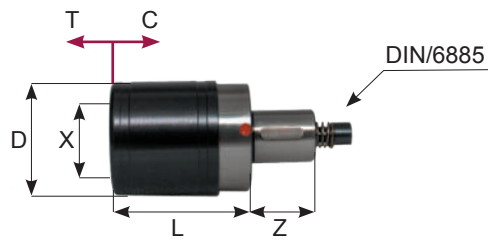
CODICE	DE	CAP	X	D	Z	L	T	C	EUR
ABS25-THTC0-L77	13	M1 ÷ M10	13	26	20	77	6.5	6.5	
ABS40-THTC1-L68	20	M3 ÷ M12	19	36	26	68	7.5	7.5	
ABS50-THTC1-L70	28				31	70			
ABS63-THTC1-L56	34				38	56			
ABS50-THTC2-L102	28	M8 ÷ M20	31	53	31	102	12.5	12.5	
ABS63-THTC2-L88	34				38	88			
ABS63-THTC3-L155	34	M14 ÷ M33	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 tapholders

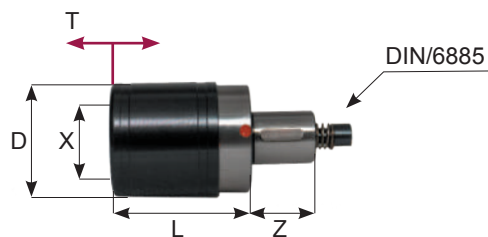


**CILINDRICO**

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 tapholders

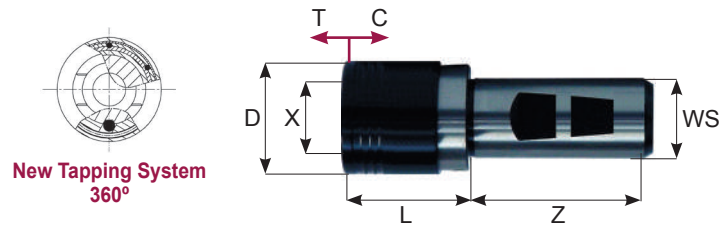


**CILINDRICO**

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 / GC**

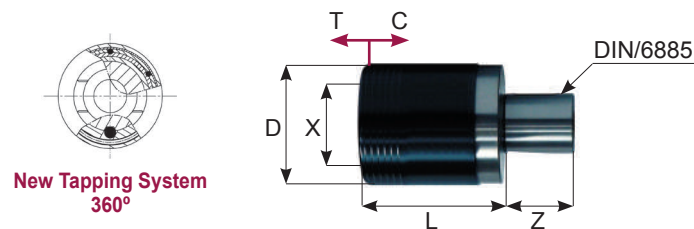
Weldon DIN/1835 B+E-Tension/Compression tapholders GC


**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 / GC**

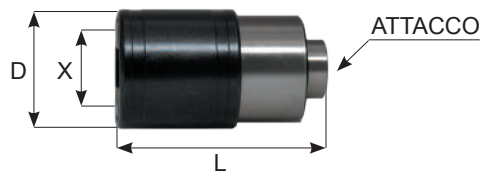
DIN/6585 - Tension/Compression tapholders GC


**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	6x4x16	
DS20-GCT1-L37.5					37.5	0	12.5		
DS25-GCTC2-L68	M8 ÷ M20	31	60	30	68	10	10	6x6x20	
DS25-GCT2-L58					58	0	16.5		
DS36-GCTC3-L99	M14 ÷ M33	48	86	46	99	17.5	17.5	10x6x32	
DS36-GCT3-L81.5					81.5	0	35		

**Mandrini cilindrici per braccio a maschiare**

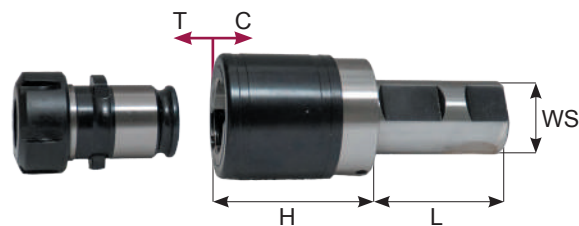
Tapping spindle


**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 Portapinzze**

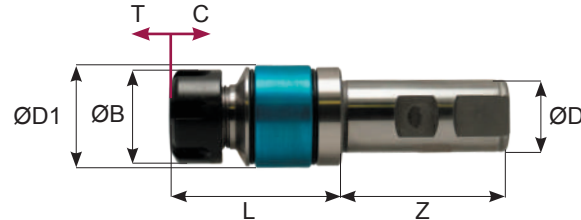
Quick change Tension/Compression ER collets tapholders


**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 - Mandrini Portapinzine a micro-compensazione assiale in compressione e trazione con passaggio del refrigerante centrale**

SYER - Quick change ER collets coolant thru with micro compensation in compression and tension tapholders


**SYNCHRO**

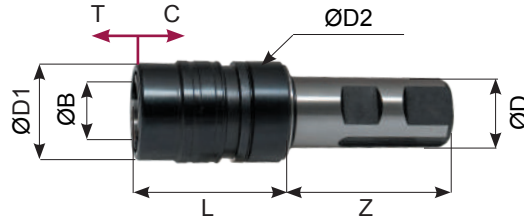
CODICE	T	C	CAP	ØD	ØB	ØD1	Z	L	GHIERA	EUR
WS20-SYER11-L51	0.5	0.5	1 ÷ 7	WS20	19	35	51	51	ER11	
WS20-SYER16M-L57			1 ÷ 10	WS20	22	35	51	57	ER16M	
WS20-SYER16-L57			1 ÷ 10	WS20	32	35	51	57	ER16	
WS20-SYER20-L60			1 ÷ 14	WS20	35	35	51	60	ER20	
WS20-SYER25-L64			1 ÷ 20	WS20	42	35	51	64	ER25	
WS20-SYER32-L79			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**

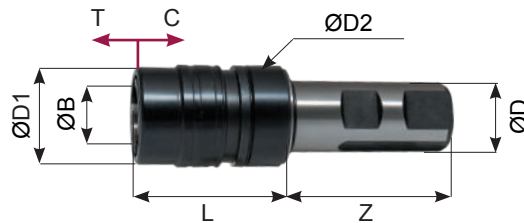
CODICE	T	C	CAP	ØD	ØB	ØD1	Z	L	GHIERA	EUR
WS0750-SYER11-2.00	0.02	0.02	1 ÷ 7	0.75	0.74	1.37	2.03	2.00	ER11	
WS0750-SYER16M-2.24			1 ÷ 10	0.75	0.86	1.37	2.03	2.24	ER16M	
WS0750-SYER16-2.24			1 ÷ 10	0.75	1.26	1.37	2.03	2.24	ER16	
WS0750-SYER20-2.36			1 ÷ 14	0.75	1.37	1.37	2.03	2.36	ER20	
WS0750-SYER25-2.52			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 - Mandrini Portabussole a micro-compensazione assiale  
 in compressione e trazione con passaggio del refrigerante**

 SY - Quick change coolant thru with micro compensation in compression  
 and tension tapholders

**SYNCHRO**

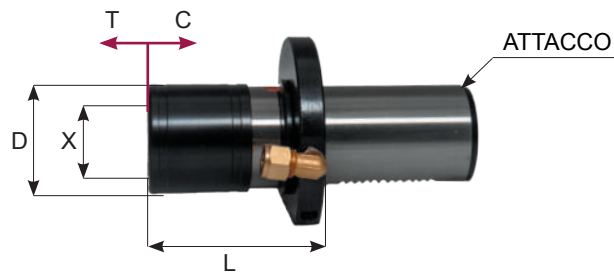
CODICE	T	C	CAP	ØD	ØB	ØD1	ØD2	Z	L	EUR
WS20-SY1-L70	0.5	0.5	M3 ÷ M12	WS20	19	32	35	51	70	
WS25-SY1-L70				WS25	19	32	35	56	70	
WS32-SY1-L70				WS32	19	32	35	60	70	
WS20-SY2-L92			M8 ÷ M20	WS20	31	50	45	53	92	
WS25-SY2-L92				WS25	31	50	45	56	92	
WS32-SY2-L92				WS32	31	50	45	60	92	


**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 tapholders 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	122	20	20	
VDI40-THTC3-L122	VDI40				108			
VDI50-THTC3-L108	VDI50							

**Prolunghe per mandrini a calettamento termico**

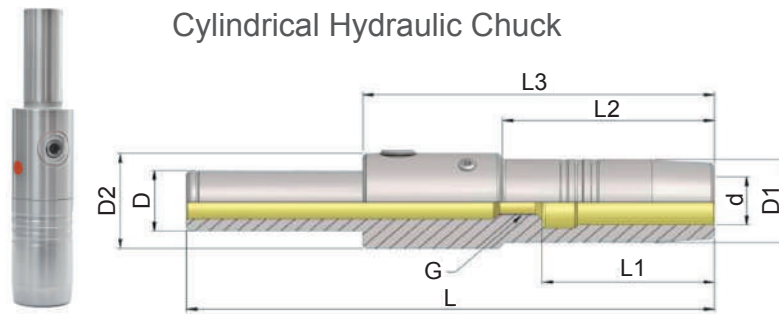
Shrink fit toolholders


**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

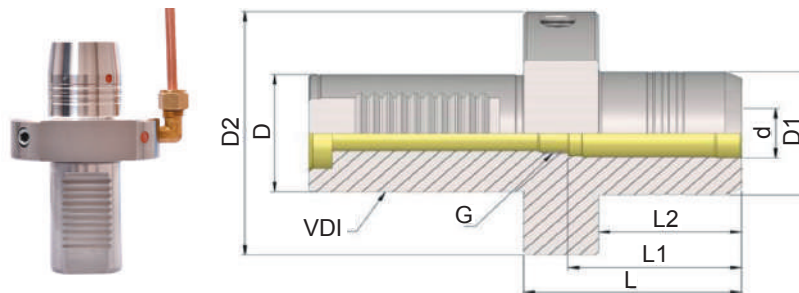


**CILINDRICO**

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	

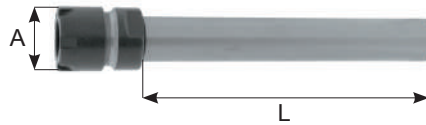
**Mandrino idraulico VDI DIN 69880**

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 MINI**

Kit ER toolholder


**ER8M**

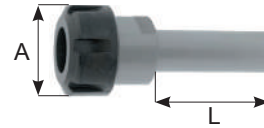
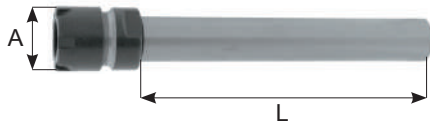
CODICE	FAM	CAP	EUR
BXD12.L100.8M	1	1 ÷ 5	
BXD12.L130.8M			
BXD12.L160.8M			
Chiave - CH8M Pinze - Ø1 a Ø5 x 0.5mm (9 Unità) Portapinze			

**ER11M**

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			80		
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	1	1 ÷ 10	60	22	
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		

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

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

**ER16**

**CAP 1 ÷ 10mm**

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

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

**Kit mandrino portapinze MINI**

Kit ER toolholder



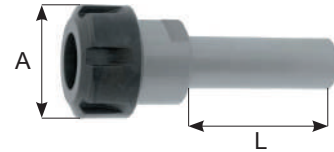
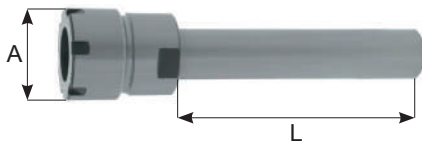
**ER16M**

CODICE	FAM	CAP	EUR
BXD20.L100.16M			
BXD20.L130.16M			
BXD20.L160.16M	1	1 ÷ 10	
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 MINI**  
Kit ER toolholder

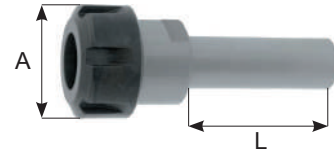
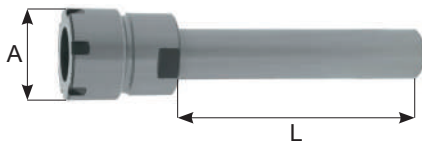


**ER20M**

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 MINI**

Kit ER toolholder



**ER25M**

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



**ER25**

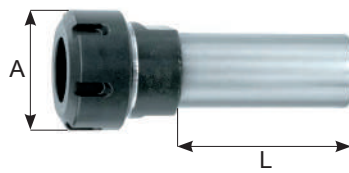
CODICE	FAM	CAP	EUR
BXD25.L100.25	1	2 ÷ 16	
BXD32.L80.25			

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

CODICE	FAM	CAP	L	A	EUR
D20.L60.ERC32			60		
D20.L100.ERC32			100		
D20.L130.ERC32			130		
D20.L160.ERC32			160		
D25.L60.ERC32			60		
D25.L100.ERC32			100		
D25.L130.ERC32			130		
D25.L160.ERC32			160		
D32.L60.ERC32	1	2 ÷ 22	60	50	
D32.L80.ERC32			80		
D32.L100.ERC32			100		
D32.L130.ERC32			130		
D32.L160.ERC32			160		
D40.L80.ERC32			80		
D40.L130.ERC32			130		
D40.L160.ERC32			160		
D50.L160.ERC32			160		

**Kit mandrino portapinze**

Kit ER toolholder



**ER32**

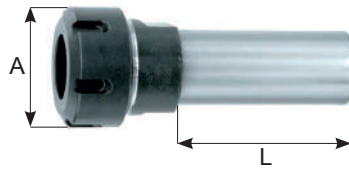
CODICE	FAM	CAP	EUR
BXD20.L80.32-6			
BXD25.L80.32-6	1	6 ÷ 25	
BXD32.L80.32-6			

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			60		
D25.L100.ERC40			100		
D32.L80.ERC40			80		
D32.L100.ERC40			100		
D32.L130.ERC40			130		
D40.L80.ERC40	1	3 ÷ 30	80	63	
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			160		
D50.L170.ERC50	1	6 ÷ 34	170	78	
D60.L170.ERC50			170		

**Kit mandrino portapinze**

Kit ER tooholder



**ER40**

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



**ER50**

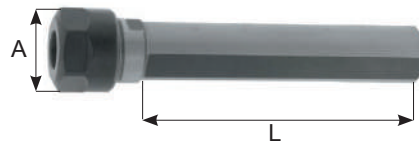
CODICE	EUR
BX.ERC50-12	
D. 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30	
D. 32 - 34	



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 MINI**

Double ended collet chuck

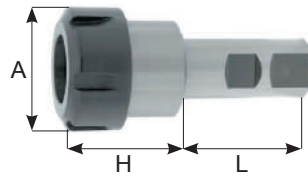

**MINI BILATERALI**

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

**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

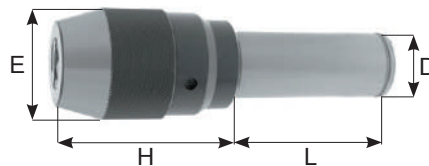

**WELDON**

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.

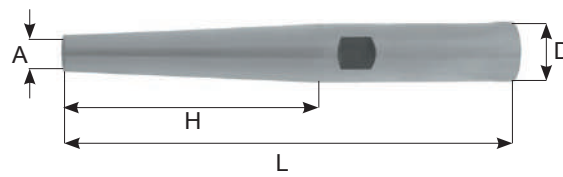
**Mandrini portapunte cilindrici**

Straight shank drill chuck


**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 P8**  
Collet chuck extensions P8

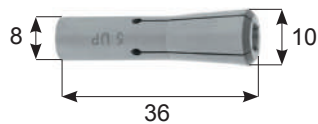


**CILINDRICO**

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-hand exagonal key

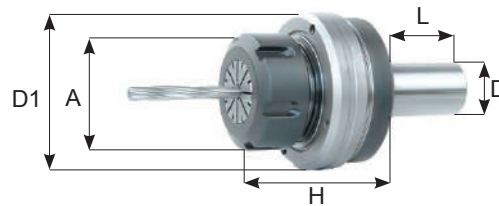


**P8**

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

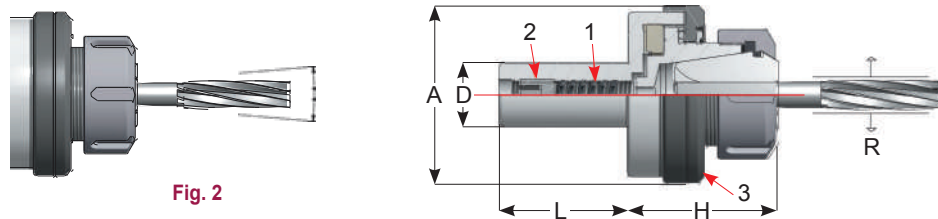
CODICE	FAM	EUR
CH.EX5	1	

**Portaalesatori flottanti con passaggio del refrigerante**  
Floating coolant reamer holder



**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								
D25.ER32.L50			25	ER32	2 ÷ 22	± 1.5 mm	50	53	57	50	
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.

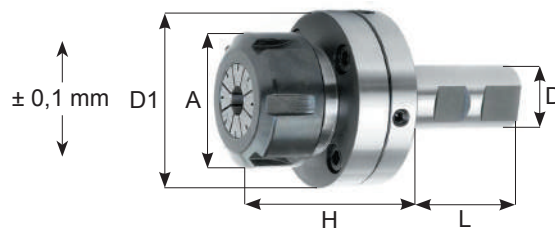
- La spinta della molla 1 mantiene l'utensile centrato anche in posizione orizzontale.
- La vite 2 regola la pressione della molla per regolare il movimento radiale.
- Allentando di 0,1/0,2mm la ghiera 3 si permette all'alesatore di avere un movimento pendolare. (Fig 2)

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)

**Portapinze radiale regolabile**

Adjustable collet chuck



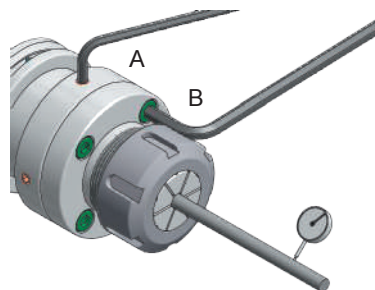
**Regolazione 0,1mm**  
Adjustment 0,1mm

**WELDON**

CODICE	FAM	CAP	L	A	D1	H	EUR
D25P.L70.ERC25RG	1	1 ÷ 20	70	42	66	61	
D25P.L70.ERC32RG		2 ÷ 22	70	50	66	62	
D32P.L70.ERC32RG		3 ÷ 30	70	63	76	66	
D32P.L70.ERC40RG							
D40P.L70.ERC40RG							

**Centratura regolabile 0,1mm**

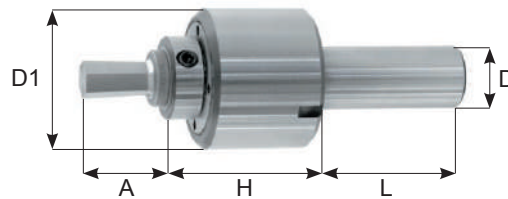
Adjustable runout 0,1mm



**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  
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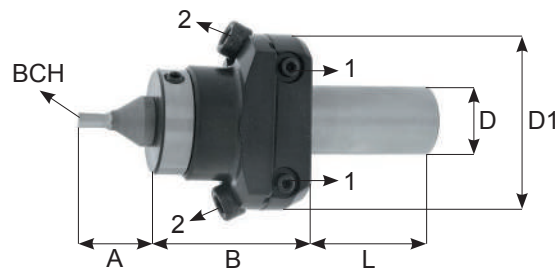
**Mandrini portabrocce cilindrici**  
Rotating broach toolholder



**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	

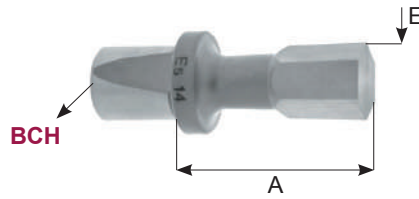
**Mandrini portabrocce cilindrici regolabili**  
Adjustable broach toolholder



**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**

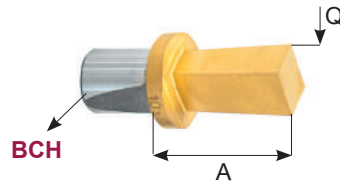
CODICE	FAM	A	EUR
BCH12.E1.5	1	25	
BCH12.E2		25	
BCH12.E2.5		25	
BCH12.E3		25	
BCH12.E3.5		25	
BCH12.E4		25	
BCH12.E5		25	
BCH12.E5.5		25	
BCH12.E6		25	
BCH12.E7		25	
BCH12.E8		25	
BCH12.E9		25	
BCH12.E10		25	
BCH12.E11		25	
BCH12.E12	25		
BCH12.E13	25		
BCH12.E14	25		

**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	

**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	

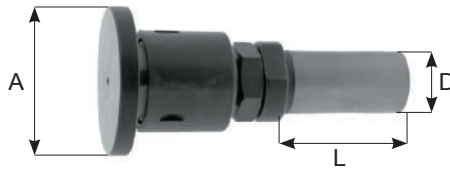
**BCH16**

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.Q20		40	

**BROCCHE 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	



# **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 TOOLHOLDERS

**3A**



**MANDRINI RIGIDI**  
RIGID TOOLHOLDERS

**3B**



**MANDRINI RIGIDI CON FLOTTAMENTO**  
FLOATING TOOLHOLDERS



**MANDRINI TRANSFER CONO MORSE**  
CONO MORSE TRANSFER TOOLHOLDERS

**3C**



**MANDRINI RIGIDI DIN/238 - JACOBS**  
DIN 238 - JACOBS RIGID TOOLHOLDERS

**3D**



**MANDRINI TRANSFER DIN/238**  
DIN/238 TRANSFER TOOLHOLDERS

**3E**



**MASCHIATRICE AD INVERSIONE**  
TAPPING ATTACHMENTS REVERSAL

**3F**



**MANDRINI A CAMBIO RAPIDO QC**  
QC QUICK CHANGE TAPHOLDERS

**3G**



**MANDRINI PORTAPINZE**  
ER TOOLHOLDERS

**3H**



**MANDRINI AUTOSERRANTI**  
DRILL CHUCK

**3I**



**RIDUTTORI CONO MORSE**  
MORSE TAPER ADAPTERS

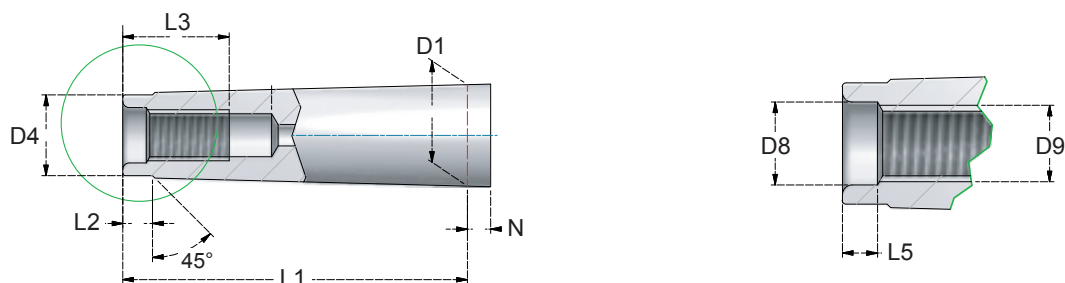
**3J**



**Tabella tecnica**

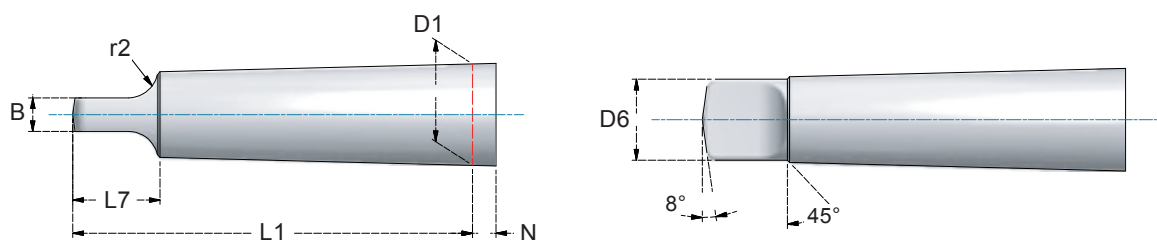
Data sheet

**Forma A**



TIPO	L1	L2	L3	L5	D1	D4	D8	D9	a	N
CM0 / A	50	4	-	-	9,045	6	-	-	1° 29' 27"	3
CM1 / A	53,5	5	16	4	12,065	9	6,4	M6	1° 25' 43"	3,5
CM2 / A	64	5	24	5	17,780	14	10,5	M10	1° 25' 50"	5
CM3 / A	81	7	24	5,5	23,825	19	13	M12	1° 26' 16"	5
CM4 / A	102,5	9	32	8,2	31,267	25	17	M16	1° 29' 15"	6,5
CM5 / A	129,5	10	40	10	44,399	35,7	21	M20	1° 30' 26"	6,5

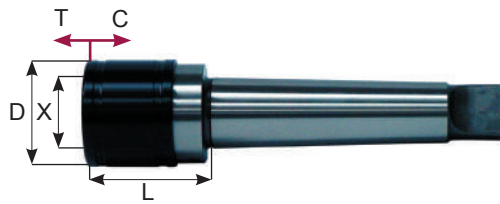
**Forma B**



TIPO	L1	L7	B	r2	D1	D6	a	N
CM0 / B	56,5	10,5	3,9	4	9,045	6	1° 29' 27"	3
CM1 / B	62	13,5	5,2	5	12,065	8,7	1° 25' 43"	3,5
CM2 / B	75	16	6,3	6	17,780	13,5	1° 25' 50"	5
CM3 / B	94	20	7,9	7	23,825	18,5	1° 26' 16"	5
CM4 / B	117,5	24	11,9	8	31,267	24,5	1° 29' 15"	6,5
CM5 / B	149,5	29	15,9	10	44,399	35,7	1° 30' 26"	6,5

**Mandrini con morse con compressione e trazione**

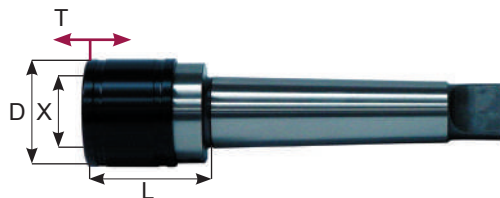
Cono morse Tension/Compression toolholders


**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**

Cono morse tension toolholders

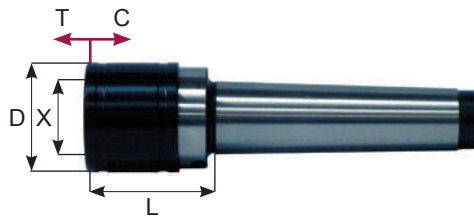

**TIPO - B**

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**

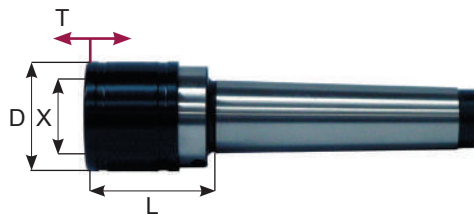
Quick change Tension/Compression toolholders


**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**

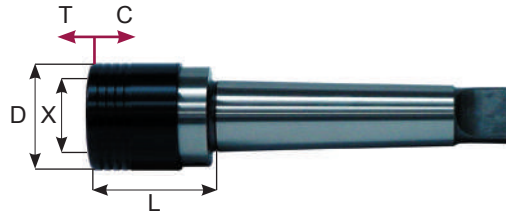
Quick change Tension/Compression toolholders


**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 GC**

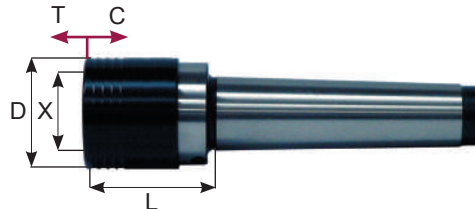
Quick change Tension/Compression GC toolholders


**TIPO - B**

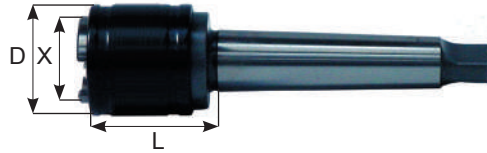
CODICE	CAP	CM	X	D	L	T	C	EUR
CM2B-GCTC1-L52	M3 ÷ M12	CM2	19	39	52	7.5	7.5	
CM3B-GCTC1-L52		CM3			52			
CM2B-GCT1-L44.5		CM2			44.5			
CM3B-GCT1-L44.5	M8 ÷ M20	CM3	31	60	44.5	12.5	0	
CM3B-GCTC2-L75		CM3			75			
CM4B-GCTC2-L76		CM4			76			
CM3B-GCT2-L65	M14 ÷ M33	CM3	48	86	65	16.5	0	
CM4B-GCT2-L66		CM4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

**Mandrini con morse con compressione e trazione GC**

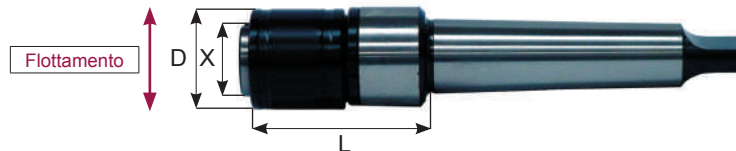
Quick change Tension/Compression GC toolholders


**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			
CM3A-GCT1-L44.5	M8 ÷ M20	CM3	31	60	44.5	12.5	0	
CM3A-GCTC2-L75		CM3			75			
CM4A-GCTC2-L76		CM4			76			
CM3A-GCT2-L65	M14 ÷ M33	CM3	48	86	65	16.5	0	
CM4A-GCT2-L66		CM4			66			
CM3A-GCTC3-L106		CM3			106			
CM4A-GCTC3-L107	M14 ÷ M33	CM4	48	86	107	17.5	17.5	
CM5A-GCTC3-L107.5		CM5			107.5			
CM3A-GCT3-L88.5		CM3			88.5			
CM4A-GCT3-L89.5	M14 ÷ M33	CM4	48	86	89.5	35	0	
CM5A-GCT3-L90		CM5			90			

**Mandrini rigidi cono morse**  
 Cono morse rigid toolholders

**TIPO - B**

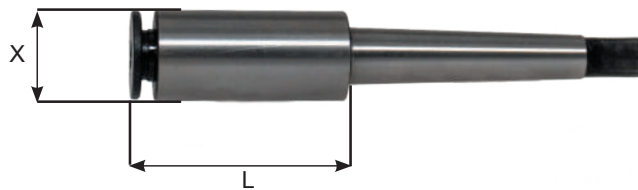
CODICE	CAP	CM	X	D	L	EUR
CM1B-TLR0-L39	M1 ÷ M10	CM1	13	23	39	
CM2B-TLR0-L40		CM2			40	
CM1B-TLR1-L43	M3 ÷ M12	CM1	19	32	43	
CM2B-TLR1-L44		CM2			44	
CM3B-TLR1-L44	M8 ÷ M20	CM3	31	50	44	
CM2B-TLR2-L61		CM2			61	
CM3B-TLR2-L61		CM3			61	
CM4B-TLR2-L62		CM4			62	
CM3B-TLR3-L90	M14 ÷ M33	CM3	48	72	90	
CM4B-TLR3-L91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

**Mandrini rigidi cono morse con flottamento radiale**  
 Rigid quick change/radial floating toolholders

**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	M8 ÷ M20	CM3	31	50	65	1	
CM2B-TLRP2-L91		CM2			91		
CM3B-TLRP2-L91		CM3			91		
CM4B-TLRP2-L92		CM4			92		
CM3B-TLRP3-L131	M14 ÷ M33	CM3	48	72	131	1.5	
CM4B-TLRP3-L132		CM4			132		
CM4B-TLRP4-L161	M22 ÷ M48	CM4	60	95	161	2	
CM5B-TLRP4-L162		CM5			162		

**Mandrini portamaschi cono morse**

Cono morse tapholders



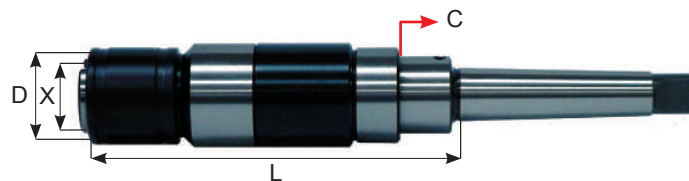
**TIPO - B**

Specificare Ø e  $\nabla$  del maschio

CODICE	CAP	Ø - $\nabla$	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**

Rigid cono morse tapholders with lenght axial compensation on compression

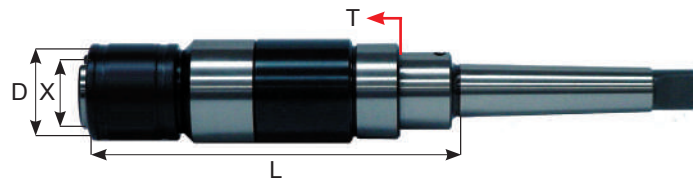


**TIPO - B**

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

**Mandrini rigidi con morse con compensazione assiale in trazione**

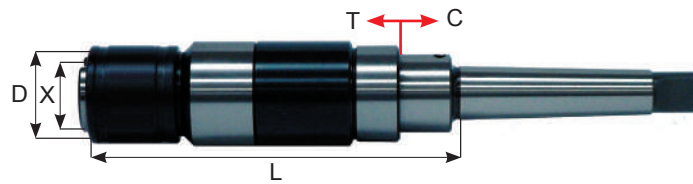
Rigid cono morse tapholders with length axial compensation on traction


**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				
CM2B-TLT1-30	M3 ÷ M12	CM2	19	35	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**

Rigid cono morse tapholders with length compensation on compression/extension


**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					106	15	15			
CM2B-TLTC0-20/10		CM2			112	10	20			
CM2B-TLTC0-15/15					107	15	15			
CM2B-TLTC1-30/10	M3 ÷ M12	CM2	19	35	144	30	30			
CM2B-TLTC1-20/20					134	20	20			
CM3B-TLTC1-30/10		CM3			144	10	30			
CM3B-TLTC1-20/20					134	20	20			
CM2B-TLTC2-30/10	M8 ÷ M20	CM2	31	50	168	10	30			
CM2B-TLTC2-20/20					158	20	20			
CM3B-TLTC2-30/10		CM3			168	10	30			
CM3B-TLTC2-20/20					158	20	20			
CM4B-TLTC2-30/10		CM4			169	10	30			
CM4B-TLTC2-20/20					159	20	20			
CM3B-TLTC3-30/10		CM3			48	72	214	10	30	
CM3B-TLTC3-20/20							204	20	20	
CM4B-TLTC3-30/10	CM4	215	10	30						
CM4B-TLTC3-20/20		205	20	20						
CM4B-TLTC4-40/20	M22 ÷ M48	CM4	60	95	269	20	40			
CM4B-TLTC4-30/30					259	30	30			
CM5B-TLTC4-40/20					270	20	40			

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

Rigid cono morse tapholders with lenght axial compensation on traction


**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						142	30	
CM2B-TLCP0-20	M3 ÷ M12	CM2	19	35	0.5	122	20	
CM2B-TLCP0-30						142	30	
CM2B-TLCP1-30	M8 ÷ M20	CM2	31	50	1	148	30	
CM2B-TLCP1-40						168	40	
CM3B-TLCP1-30						148	30	
CM3B-TLCP1-40	M14 ÷ M33	CM3	48	72	1.5	168	40	
CM2B-TLCP2-30						181	30	
CM2B-TLCP2-40						201	40	
CM3B-TLCP2-30						181	30	
CM3B-TLCP2-40	M22 ÷ M48	CM4	60	95	2	201	40	
CM4B-TLCP2-30						181	30	
CM4B-TLCP2-40	M14 ÷ M33	CM4	48	72	1.5	238	30	
CM3B-TLCP3-30						258	40	
CM3B-TLCP3-40						238	30	
CM4B-TLCP3-30	M22 ÷ M48	CM4	60	95	2	258	40	
CM4B-TLCP3-40						258	40	
CM4B-TLCP4-60	M22 ÷ M48	CM5	60	95	2	258	60	
CM5B-TLCP4-60						278	60	

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

Rigid cono morse tapholders with lenght axial compensation on traction and radial floating


**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						112	30	
CM2B-TLTP0-20	M3 ÷ M12	CM2	19	35	0.5	102	20	
CM2B-TLTP0-30						112	30	
CM2B-TLTP1-30	M8 ÷ M20	CM2	31	50	1	118	30	
CM2B-TLTP1-40						128	40	
CM3B-TLTP1-30						118	30	
CM3B-TLTP1-40	M14 ÷ M33	CM3	48	72	1.5	128	40	
CM2B-TLTP2-30						151	30	
CM2B-TLTP2-40						161	40	
CM3B-TLTP2-30						151	30	
CM3B-TLTP2-40	M22 ÷ M48	CM4	60	95	2	161	40	
CM4B-TLTP2-30						151	30	
CM4B-TLTP2-40	M14 ÷ M33	CM4	48	72	1.5	208	30	
CM3B-TLTP3-30						218	40	
CM3B-TLTP3-40						208	30	
CM4B-TLTP3-30	M22 ÷ M48	CM4	60	95	2	218	40	
CM4B-TLTP3-40						218	40	
CM4B-TLTP4-60	M22 ÷ M48	CM5	60	95	2	229	60	
CM5B-TLTP4-60						230	60	

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

 Rigid cono morse tapholders with lenght axial compensation on  
 compression/extension and radial floating

**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					106					15	15			
CM2B-TLTCP0-20/10		CM2			112		20	10						
CM2B-TLTCP0-15/15					107		15	15						
CM2B-TLTCP1-30/10	M3 ÷ M12	CM2	19	35	144	0.5	30	30						
CM2B-TLTCP1-20/20					134		20	20						
CM3B-TLTCP1-30/10		CM3			144		30	10						
CM3B-TLTCP1-20/20					134		20	20						
CM2B-TLTCP2-30/10	M8 ÷ M20	CM2	31	50	168	1	30	10						
CM2B-TLTCP2-20/20					158		20	20						
CM3B-TLTCP2-30/10		CM3			168		30	10						
CM3B-TLTCP2-20/20					158		20	20						
CM4B-TLTCP2-30/10		CM4			169		30	10						
CM4B-TLTCP2-20/20					159		20	20						
CM3B-TLTCP3-30/10		M14 ÷ M33			CM3		48	72		214	1.5	30	10	
CM3B-TLTCP3-20/20										204		20	20	
CM4B-TLTCP3-30/10	CM4		215	30	10									
CM4B-TLTCP3-20/20			205	20	20									
CM4B-TLTCP4-40/20	M22 ÷ M48	CM4	60	95	269	2	40	20						
CM4B-TLTCP4-30/30					259		30	30						
CM5B-TLTCP4-40/20		CM5			270		40	20						
CM5B-TLTCP4-30/30					260		30	30						



**Mandrini rigidi (DIN/238)**

Quick change toolholders (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 toolholders



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)**

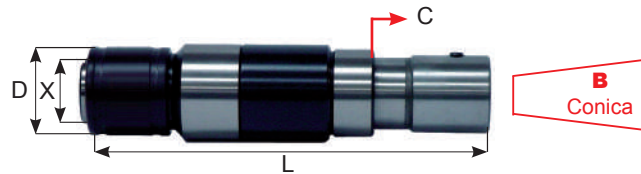
Quick change toolholders/Radial floating (DIN/238)



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)**

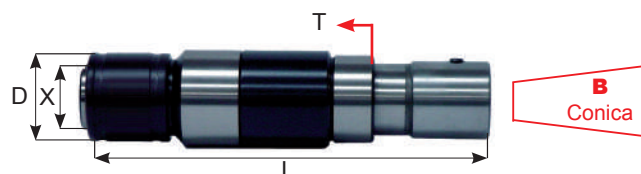
Quick change toolholders with length compensation Axial in Compression (DIN/238)



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

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

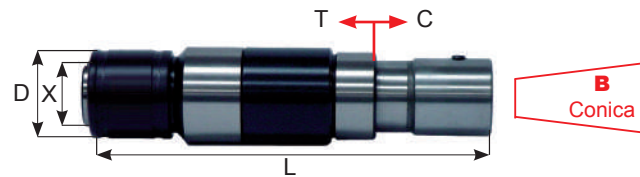
Quick change toolholders with length Axial in Tension (DIN/238)



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

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

Quick change toolholders with length compensation Axial in Tension (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					122	15	15	
B12-TLTC0-20/10		B12			131	20	10	
B12-TLTC0-15/15					126	15	15	
B16-TLTC1-30/10	M3 ÷ M12	B16	19	35	165	30	10	
B16-TLTC1-20/20					155	20	20	
B18-TLTC1-30/10		B18			178	30	10	
B18-TLTC1-20/20					168	20	20	
B18-TLTC2-30/10	M8 ÷ M20	B18	31	50	198	30	10	
B18-TLTC2-20/20					188	20	20	
B22-TLTC2-30/10		B22			207	30	10	
B22-TLTC2-20/20					197	20	20	
B22-TLTC3-30/10	M14 ÷ M33	B22	48	72	251	30	10	
B22-TLTC3-20/20					241	20	20	
B24-TLTC3-30/10		B24			161	30	10	
B24-TLTC3-20/20					251	20	20	

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

Quick change toolholders 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					159		30	
B12-TLCP0-20		B12			143		20	
B12-TLCP0-30					163		30	
B12-TLCP1-30	M3 ÷ M12	B12	19	35	142	0.5	30	
B12-TLCP1-40					162		40	
B16-TLCP1-30		B16			142		30	
B16-TLCP1-40					162		40	
B18-TLCP1-30	M8 ÷ M20	B18	31	50	157	1	30	
B18-TLCP1-40					162		40	
B16-TLCP2-30		B16			176		30	
B16-TLCP2-40					196		40	
B18-TLCP2-30	M14 ÷ M33	B18	48	72	176	1.5	30	
B18-TLCP2-40					196		40	
B22-TLCP2-30		B22			192		30	
B22-TLCP2-40					212		40	
B22-TLCP3-30	M14 ÷ M33	B22	48	72	232	1.5	30	
B22-TLCP3-40					252		40	
B24-TLCP3-30		B24			232		30	
B24-TLCP3-40					252		40	

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

 Quick change toolholders with length compensation  
 in Tension 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							40	
B18-TLTP1-30		B18			163		30	
B18-TLTP1-40							40	
B18-TLTP2-30	M8 ÷ M20	B18	31	50	194	1.00	30	
B18-TLTP2-40							40	
B22-TLTP2-30		B22			203		30	
B22-TLTP2-40							40	
B22-TLTP3-30	M14 ÷ M33	B22	48	72	256	1.50	30	
B22-TLTP3-40							40	
B24-TLTP3-30		B24			266		30	
B24-TLTP3-40							40	

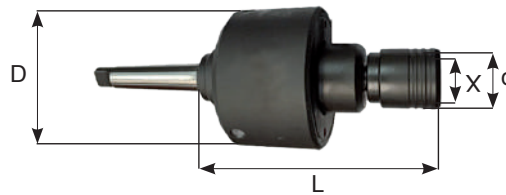
**Mandrini rigidi con compensazione assiale  
 in compressione e trazione e flottamento radiale (DIN/238)**

 Quick change toolholders with length compensation in  
 Compression/Tension 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							144	15	15
B12-TLTCP0-20/10		B12			153		10	20	
B12-TLTCP0-15/15							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							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							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							286	20	20

**Maschiatrice ad inversione**

Self reversing tapping attachment

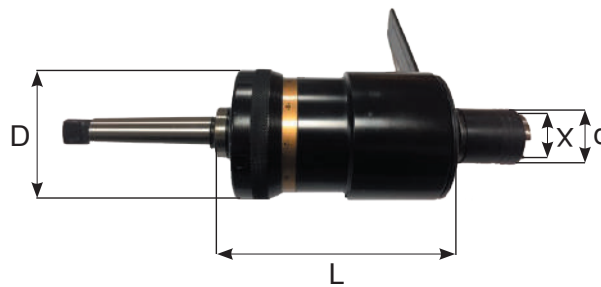


CODICE	TIPO	CM	D	L	X	d	EUR
CM2B-SRT1	1	CM2B	80	140	19	32	
CM3B-SRT2	2	CM3B	86	170	31	50	

**RAPPORTO DI MASCHIATURA 1 A 1**

**Maschiatrice ad inversione con frizione**

Self reversing tapping attachment automatic



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

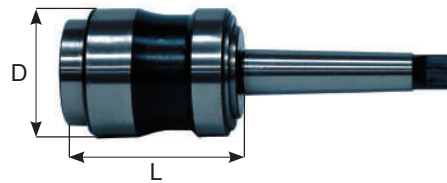
**RAPPORTO DI MASCHIATURA 1 A 1.5**

**Kit maschiatrice ad inversione**

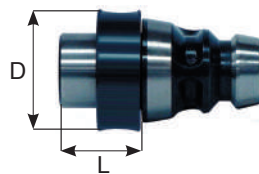
Kit - self reversing tapping attachment



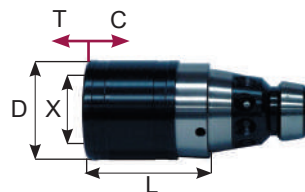
CODICE	EUR
<b>KIT - SRT1</b> Mandrino CM2 DIN/228B M3 - M10	
<b>KIT - SRT2</b> Mandrino CM3 DIN/228B M10 - M20	

**Mandrini a cambio rapido**  
 Quick - change tapholders

**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	

**Bussole a cambio rapido cono morse**  
 Quick - change morse taper adapters

**QC**

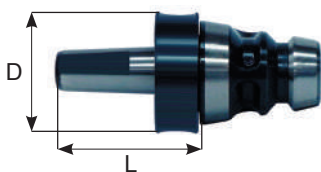
CODICE	CR	CM	D	L	EUR
QC2-CM1B	QC2	CM1B	42	18.0	
QC2-CM2B	QC2	CM2B	42	30.5	
QC3-CM1B	QC3	CM1B	50	20.5	
QC3-CM2B	QC3	CM2B	50	20.5	
QC3-CM3B	QC3	CM3B	50	38.5	

**Bussole a cambio rapido a compensazione assiale in compressione e trazione**  
 Quick - 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	

**Bussole a cambio rapido tipo B**

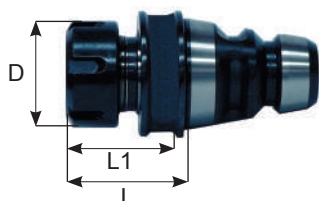
Quick change drill chuck adapters B


**QC**

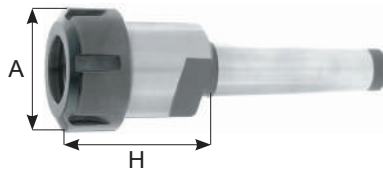
CODICE	CR	RIDUTTORE	D	L	EUR
QC2-B16	QC2	B16	42	23	
QC3-B16	QC3	B16	50	25.5	

**Bussole 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**  
 Cono morse STANDARD ER toolholders

**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 toolholder

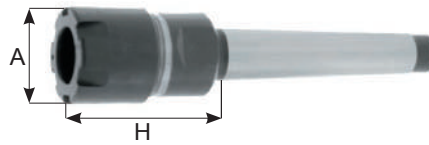


CODICE	PINZE	CHIAVE	PORTAPINZE	EUR
BX.CM2.ERC16	Ø2 ÷ Ø16 x 1mm (15 unità)	CH25S	CM2.H42.ERC25	
BX.CM3.ERC25			CM3.H53.ERC25	
BX.CM4.ERC32	Ø4 ÷ Ø26 x 1mm (23 unità)	CH40S	CM4.H81.ERC40	
BX.CM3.ERC32			CM3.H70.ERC32	
BX.CM4.ERC40	Ø3 ÷ Ø20 x 1mm (18 unità)	CH32S	CM4.H60.ERC32	



**Portapinze cono morse MINI**

Cono morse MINI ER toolholders

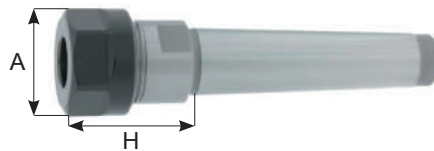

**TIPO - A**

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**

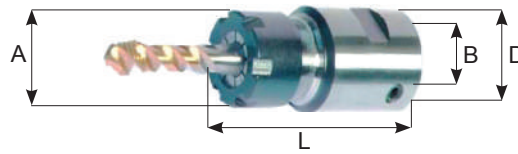
EXAGONAL cono morse ER toolholders


**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**

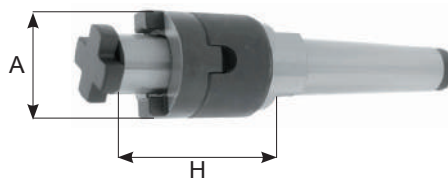
DIN238 toolholders with MINI nut


**B**

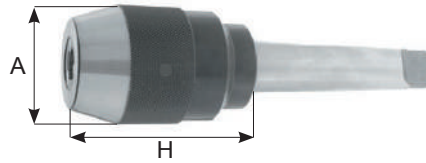
CODICE	FAM	A	L	D	B	EUR
B12.H63.ERC11M	1	16	63	25	12.06	
B12.H55.ERC16M		22	55	25	12.06	
B16.H85.ERC16M		22	85	25	15.73	
B12.H67.ERC20M		28	67	25	12.06	
B16.H80.ERC20M		28	80	25	15.73	
B18.H74.ERC20M	2	28	74	28	17.78	

**Portafrese combinato cono morse**

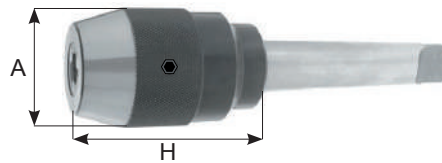
Combi shell end mill holders


**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	5	
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
CM2B.H81.DCK13S	1-2	0.5 ÷ 13	81	50	
CM3B.H81.DCK13S					
CM4B.H81.DCK13S		3 ÷ 16	85	57	
CM3B.H85.DCK16S					
CM4B.H85.DCK16S					

**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	0.5 ÷ 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**  
 Tangs for morse taper

**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 con griffe in Acciaio**

Drill chuck heads with stainless coated jaws


**DC**

CODICE	FAM	CAP	B	EUR
DC13.B16	1	0.5 ÷ 13	16	
DC16.B16		2.5 ÷ 16	16	
DC16.B18				18

**Mandrini autoserranti manuali con griffe in Titanio**

Drill chuck heads with titanium coated jaws - right and left rotation - taper DIN238


**DCK**

CODICE	FAM	CAP	B	EUR	
DC8S.B12	1	0.5 ÷ 8	12		
DC10S.B12		0.5 ÷ 10			
DC13S.B12		1 ÷ 13			
DC13S.B16		1 ÷ 13	16		
DC16S.B16		2.5 ÷ 16		18	
DC16S.B18					

**Mandrini autoserranti con chiave esagonale**

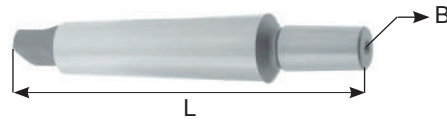
Exagonal key drill chucks


**CP**

CODICE	FAM	CAP	B	EUR
CP13S-B16	1	1 ÷ 13	16	
CP16S-B16		2.5 ÷ 16	16	

**Attacchi cono morse (DIN/238)**

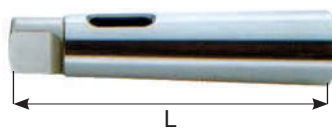
Drill chucks arbors (DIN/238)


**CM-B**

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

**Riduttori cono Morse - Morse**

Morse taper sleeves


**CM-CM**

CODICE	FAM	CM Esterno	CM Interno	L	EUR	
CM1B-0	2	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		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 punta**

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**

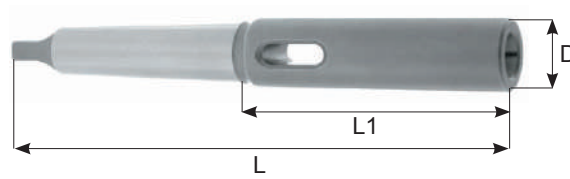
CODICE	FAM	DESCRIZIONE	CAP	D	L	EUR
CM0.MASCHIO	2	CM0 - MASCHIO	2.5 ÷ 4.5	9.0	59.5	
CM1.MASCHIO		CM1 - MASCHIO	2.5 ÷ 10.0	12.2	65.5	
CM2.MASCHIO		CM2 - MASCHIO	4.5 ÷ 14.0	18.0	80.0	
CM3.MASCHIO		CM3 - MASCHIO	8.0 ÷ 18.0	24.0	99.0	
CM4.MASCHIO		CM4 - MASCHIO	12.0 ÷ 25.0	31.5	124.0	
CM5.MASCHIO		CM5 - MASCHIO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

**Estrattori a cono**

Cone ejectors


**DIN 317**

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

**Prolunga per utensili a cono morse**  
 Morse taper extensions

**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	

**Interno cono**  
 Spindle taper wipers

**TCL**

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







**MANDRINI  
ATTACCO TRAPEZOIDALE  
DIN/6327**

DIN/6327 TRAPEZOIDALE  
TOOLHOLDERS

**4**





# MANDRINI ATTACCO TRAPEZOIDALE DIN/6327

## DIN/6327 TRAPEZOIDALE TOOLHOLDERS



**MANDRINI A CAMBIO RAPIDO**  
QUICK CHANGE TOOLHOLDERS

**4A**



**MANDRINI RIGIDI**  
RIGID TOOLHOLDERS

**4B**



**MANDRINI RIGIDI CON FLOTTAMENTO**  
FLOATING RIGID TOOLHOLDERS

**4C**



**MANDRINI TRANSFER**  
TRANSFER TOOLHOLDERS

**4D**



**MANDRINI RIGIDI GW / GSW / GSWL**  
GW / GSW / GSWL RIGID TOOLHOLDERS

**4E**



**MANDRINI RIGIDI GSVL / DZ**  
GSVL / DZ RIGID TOOLHOLDERS



**BUSOLE REGISTRABILI**  
ADJUSTABLE ADAPTORS

**4F**



**MANDRINI CAMBIO RAPIDO A MANO**  
QUICK CHANGE DRILLING CHUCKS ONE HAND



**GHIERA DI REGISTRAZIONE**  
ADJUSTING NUT TYPE GH

**4G**



**GHIERE A CAMBIO RAPIDO**  
ADJUSTING NUT TYPE CRM FOR DRILLING CHUCKS  
WITH QUICK CHANGE SYSTEM

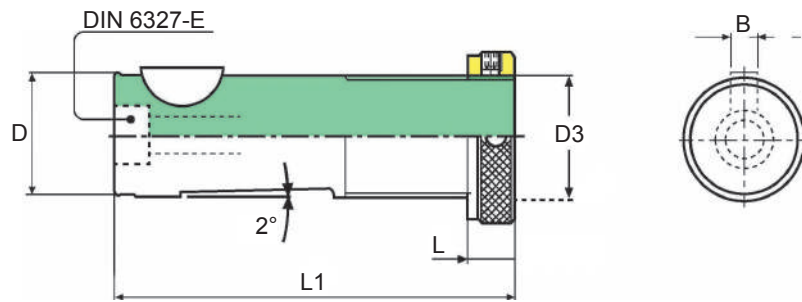


**MANDRINI PORTAPINZE**  
ER TOOLHOLDERS



**Tabella tecnica**

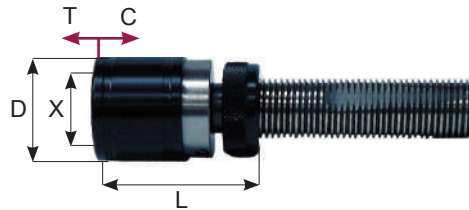
Data sheet



<b>D3</b>	<b>D</b>	<b>L1</b>	<b>B</b>	<b>L</b>
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

**Mandrini con compressione e trazione**

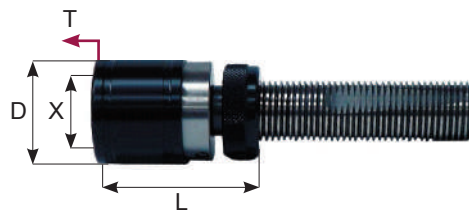
Tension/compression quick change toolholders


**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			

**Mandrini con solo trazione**

Tension quick change toolholders

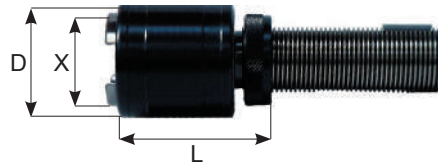

**TR**

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 THRU

**Mandrini rigidi**

Rigid quick change toolholders


**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 THRU

**Mandrini rigidi con flottamento radiale**

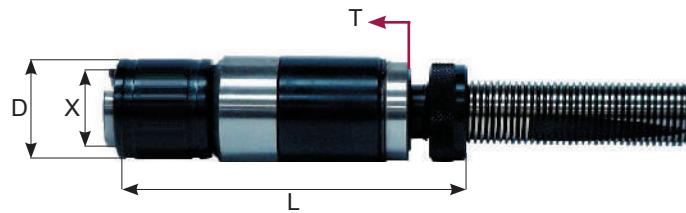
Radial floating quick change toolholders


**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	

**Mandrini rigidi con compensazione assiale in trazione**

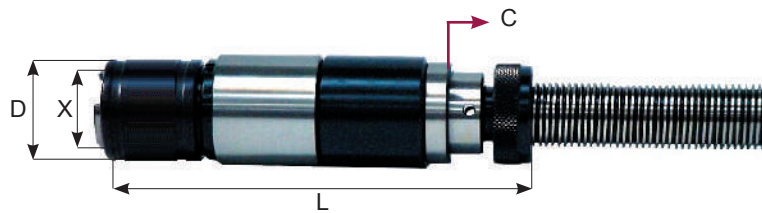
Axial tension/compression quick change toolholders


**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				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				108	30	
TR28-TLT1-40				118	40	
TR20-TLT2-30	M8 ÷ M20	31	50	132	30	
TR20-TLT2-40				142	40	
TR28-TLT2-30				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	



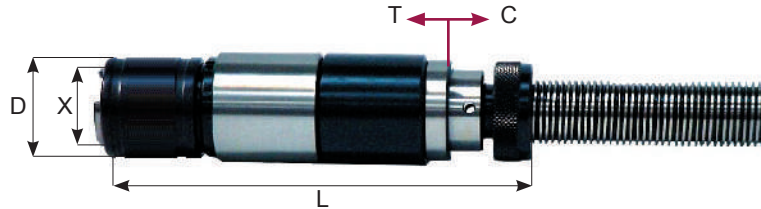
**Mandrini rigidi con compensazione assiale in compressione**  
 Axial tension quick change toolholders


**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	M3 ÷ M12	19	35	127	30	
TR16-TLC1-30				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				165	30	
TR36-TLC2-40				185	40	
TR28-TLC3-30	M14 ÷ M33	48	72	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	

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

Rigid axial tension/compression quick change toolholders


**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-TLTC3-30/10				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	

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

Rigid radial floating axial compression quick change toolholders


**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	M8 ÷ M20	31	50	154	1	30	
TR28-TLCP1-40				174		40	
TR20-TLCP2-30				188		30	
TR20-TLCP2-40				208		40	
TR28-TLCP2-30	M14 ÷ M33	48	72	188	1.5	30	
TR28-TLCP2-40				208		40	
TR36-TLCP2-30				190		30	
TR36-TLCP2-40				210		40	
TR28-TLCP3-30	M22 ÷ M48	60	95	244	2	30	
TR28-TLCP3-40				264		40	
TR36-TLCP3-30				246		30	
TR36-TLCP3-40				266		40	
TR36-TLCP4-60				342		60	
TR48-TLCP4-60				346		60	

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

Rigid radial floating axial tension quick change toolholders


**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**

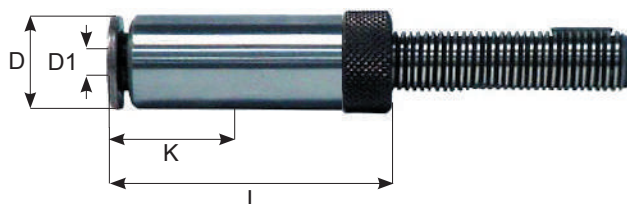
Rigid radial floating axial compression/tension quick change toolholders


**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 portamaschi (DIN/6327)**

Drilling chucks (DIN/6327)

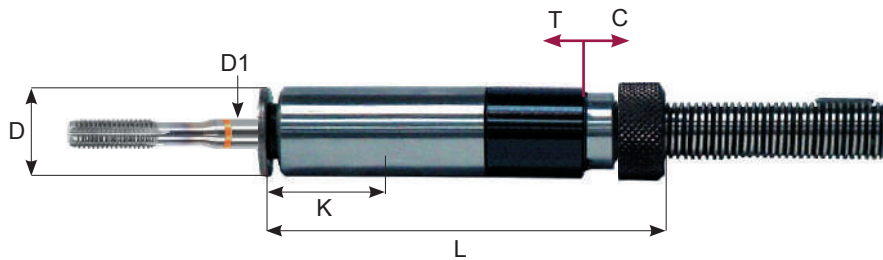

**TR**

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**

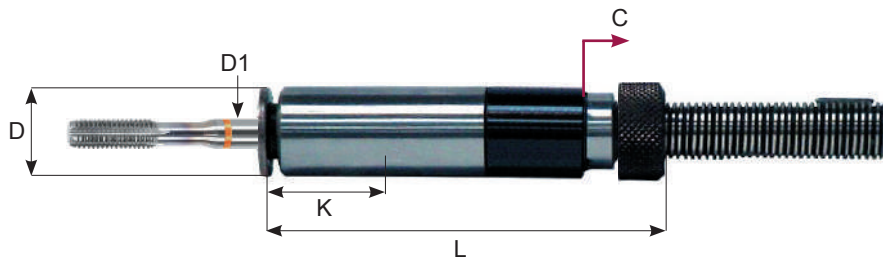
Rigid axial compression/tension quick change toolholders


**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**

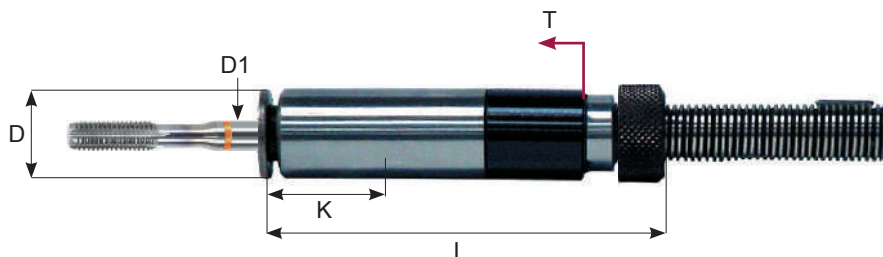
Rigid axial compression quick change toolholders


**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**

Rigid axial tension quick change toolholders

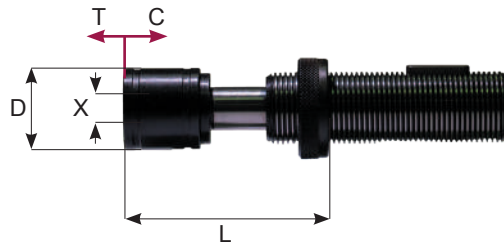

**TR**

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 / trazione**

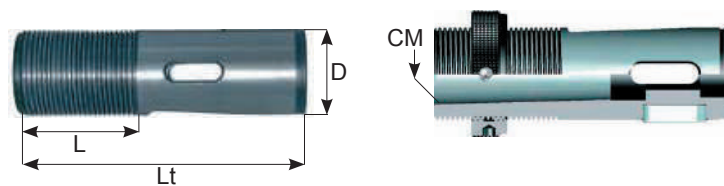
Rigid axial compression/tension quick change toolholders


**TR**

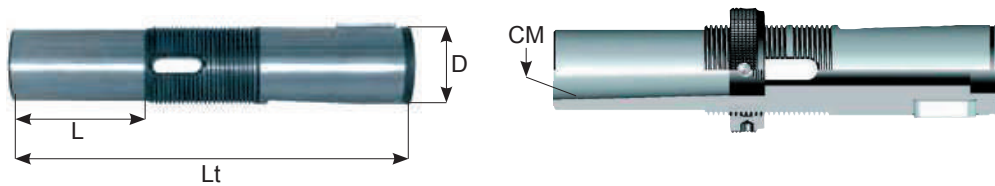
CODICE	ATTACCO	X	D	L	T	C	EUR
TR28-THLC1-L65	M3 ÷ M12	19	32	65	20	20	
TR36-THLC1-L67				67	20	20	
TR48-THLC1-L71				71	20	20	
TR36-THLC2-L83	M8 ÷ M24	31	50	83	25	20	
TR48-THLC2-L87				87	25	20	

**Bussole (DIN/6327)**

Adjustable Adaptors (DIN/6327)


**AS**

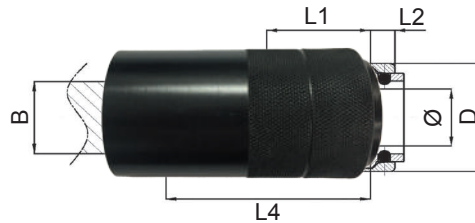
CODICE	CM	D	L	Lt	EUR
AS/16850	0	16	40	85	
AS/16851	1	16	40	85	
AS/20881	1	20	40	88	
AS/28951	1	28	42	95	
AS/28952	2	28	42	95	
AS/361182	2	36	50	118	
AS/361183	3	36	50	118	
AS/481442	3	48	65	144	
AS/481443	4	48	65	144	

**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)



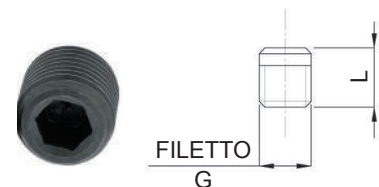
**RC**

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**

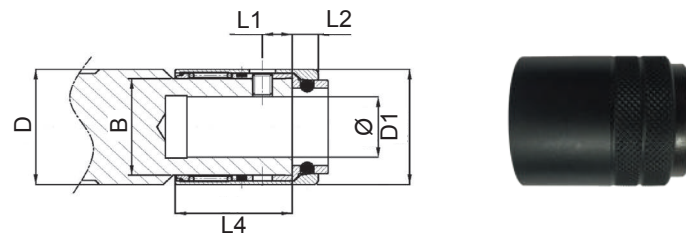
Screw Quick change drilling chucks

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**

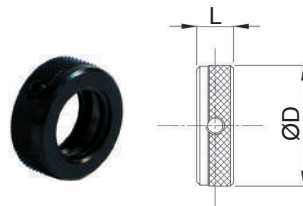
Screw Quick change drilling chucks short

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	



**Ghiere di registrazione**

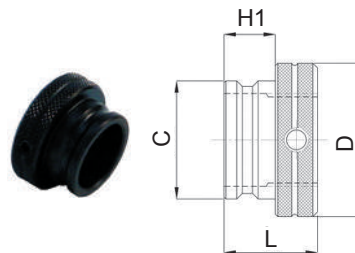
Adjusting nut type GH


**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**

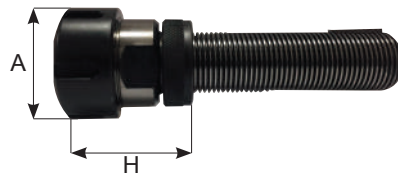
Adjusting nut type CRM for drilling cucks with quick change system


**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	

**Portapinze con ghiera STANDARD**

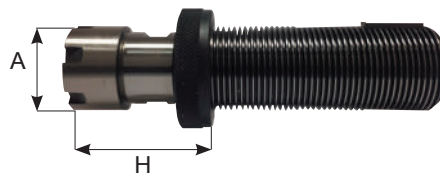
Collet chucks STANDARD nut


**TR**

CODICE	FAM	CAP	H	A	EUR
TR16-TLER11-L42	1	1 ÷ 7	42	19	
TR16-TLER16-L57		1 ÷ 10	57	28	
TR20-TLER16-L56			56		
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	

**Portapinze con ghiera MINI**

Collet chucks MINI nut


**TR**

CODICE	FAM	CAP	H	A	EUR
TR12-TLER11M-L46	1	1 ÷ 7	46	16	
TR12-TLER16M-L51		1 ÷ 10	51	22	
TR16-TLER16M-L57			57		
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	



# **MACCHINE A CALETTARE ACCESSORI**

SHRINK FIT MACHINE  
ACCESSORIES

# 5







# MACCHINE A CALETTARE ACCESSORI

## SHRINK FIT MACHINE ACCESSORIES



**MACCHINE A CALETTARE**  
SHRINK FIT MACHINE

**5A**



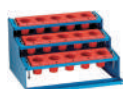
**BARRA DI CONTROLLO**  
TEST ARBOR

**5B**



**SUPPORTI DI MONTAGGIO**  
ASSEMBLING TOOLS DEVICE

**5C**



**PORTACONI**  
PLASTIC BUSHES

**5D**



### Calettamento

Shrink fit machine

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



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

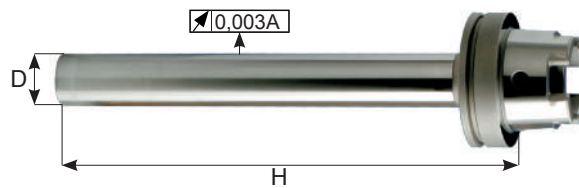


CODICE	FUNZIONI	CAPACITÀ	DESCRIZIONE	EUR
FG500.1150	ARIA	4 - 6 Bar	SISTEMA RAFFREDDAMENTO AD ARIA	



**Barre di controllo con certificato HSK**

Test arbor with accuracy certificate HSK

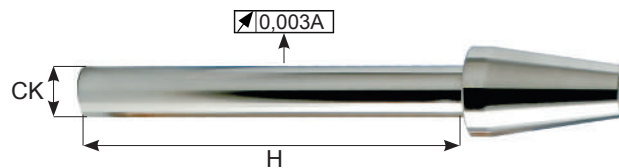


**HSK63A**

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

**Barre di controllo con certificato MAS/403BT**

Test arbor with accuracy certificate MAS/403BT

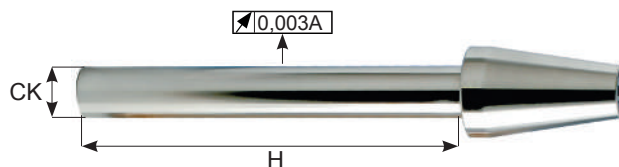


**BT30 / 40 / 50**

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.CK63		63		340	

## Supporti di montaggio con rulli 90°

Roller clamping assembly devices 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 roller clamping assembly devices



### TBRL

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

**Il supporto blocca la flangia del portautensile 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 - for tapered shank



**TLD**

CODICE	FAM	MODELLO	EUR
TLD30SK	1	TC-BT-CAT-ISO30	
TLD40SK		TC-BT-CAT-ISO40	
TLD50SK		TC-BT-CAT-ISO50	

### Portaconi

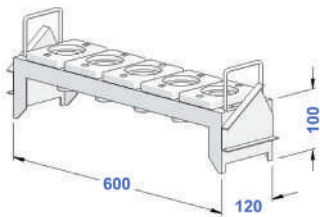
Plastic bushes



CODICE	FAM		EUR
PORTA.ISO30	2	0033	
PORTA.ISO40			
PORTA.ISO50			
PORTA.HSK50-KM50-PSC50		0033	
PORTA.HSK63-KM63-PSC63			
PORTA.HSK100-KM100-PSC100			
PORTA.POL.C32		0033	
PORTA.POL.C40			
PORTA.POL.C50			
PORTA.POL.C63		0033	
PORTA.POL.C80			

### Unità portaconi

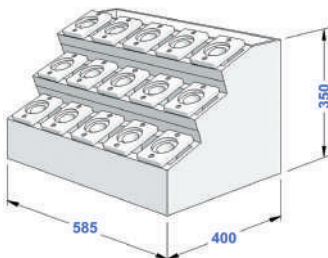
Bench unities



CODICE	FAM	←N°	EUR
UNI.ISO30	2	6	
UNI.ISO40		6	
UNI.ISO50		5	
UNI.HSK50-KM50-PSC50		6	
UNI.HSK63-KM63-PSC63		6	
UNI.HSK100-KM100-PSC100		5	
UNI.POL.C32		6	
UNI.POL.C40		6	
UNI.POL.C50		6	
UNI.POL.C63		6	
UNI.POL.C80		5	

### Espositore portaconi

Tools stores



CODICE	FAM	←N°	EUR
MAG.ISO30	2	15	
MAG.ISO40		15	
MAG.ISO50		12	
MAG.HSK50-KM50-PSC50		15	
MAG.HSK63-KM63-PSC63		15	
MAG.HSK100-KM100-PSC100		12	
MAG.POL.C32		15	
MAG.POL.C40		15	
MAG.POL.C50		15	
MAG.POL.C63		15	
MAG.POL.C80		12	







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

TOOLHOLDERS BT/MAS403  
AND DUAL DRIVE
















**6**




















# MANDRINI ATTACCO MAS403/BT E DOPPIO CONTATTO

## TOOLHOLDERS BT/MAS403 AND DUAL DRIVE

	<b>MANDRINI A CAMBIO RAPIDO</b> QUICK CHANGE TOOLHOLDERS		<b>6A</b>
	<b>MANDRINI A CAMBIO RAPIDO PASSAGGIO DEL REFRIGERANTE</b> COOLANT QUICK CHANGE TOOLHOLDERS		
	<b>SYNCHRO PORTAPINZE</b> SYNCHROFER ER TOOLHOLDERS		<b>6B</b>
	<b>SYNCHRO CAMBIO RAPIDO</b> QUICK CHANGE SYNCHROFER TOOLHOLDERS		
	<b>MANDRINI RIGIDI</b> RIGID TOOLHOLDERS		<b>6C</b>
	<b>MANDRINI RIGIDI PASSAGGIO DEL REFRIGERANTE</b> COOLANT RIGID TOOLHOLDERS		
	<b>MANDRINI IDRAULICI</b> HYDRAULIC CHUCKS		<b>6D</b>
	<b>MANDRINI IDRAULICI DOPPIO CONTATTO</b> DUAL DRIVE HYDRAULIC CHUCKS	<b>DOPPIO CONTATTO</b>	<b>6E</b>
	<b>MANDRINI PORTAPINZE "TG"</b> "TG" ER TOOLHOLDERS		<b>6F</b>
	<b>MANDRINI PORTAPINZE</b> ER TOOLHOLDERS		<b>6G</b>
	<b>MANDRINI PORTAFRESE WELDON</b> END MILL HOLDERS FOR WELDON		<b>6H</b>
	<b>MANDRINI PORTAFRESE COMBINATO</b> COMBI SHELL END MILL HOLDERS		<b>6I</b>
	<b>MANDRINO PORTAFRESE FISSO</b> SHELL END MILL HOLDERS		<b>6J</b>
	<b>MANDRINI A CALETTAMENTO</b> SHRINK FIT HOLDERS		<b>6K</b>
	<b>MANDRINI PORTAPINZE DOPPIO CONTATTO</b> DUAL DRIVE ER TOOLHOLDERS	<b>DOPPIO CONTATTO</b>	<b>6L</b>

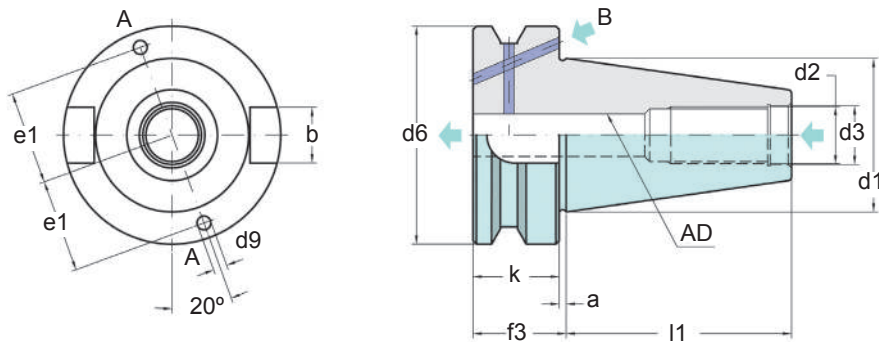
# MANDRINI ATTACCO MAS403/BT E DOPPIO CONTATTO

## TOOLHOLDERS BT/MAS403 AND DUAL DRIVE

	<b>MANDRINI PORTAFRESE WELDON DOPPIO CONTATTO</b> DUAL DRIVE WELDON END MILL HOLDERS	<b>DOPPIO CONTATTO</b>	<b>6M</b>
	<b>MANDRINI PORTAFRESE FISSO DOPPIO CONTATTO</b> DUAL DRIVE SHELL END MILL HOLDERS	<b>DOPPIO CONTATTO</b>	<b>6N</b>
	<b>MANDRINI A DOPPIO CONTATTO A CALETTAMENTO TERMICO (4,5°)</b> DUAL DRIVE SHRINK FIT TOOL HOLDER 4,5°	<b>DOPPIO CONTATTO</b>	<b>6O</b>
	<b>MANDRINI PORTAPUNTE</b> DRILL CHUCKS WITH HOOK WRENCH		<b>6P</b>
	<b>MANDRINI PORTAALESATORI FLOTTANTI</b> FLOATING REAMER HOLDERS		<b>6Q</b>
	<b>MANDRINI PORTAPINZE EOC</b> EOC ER TOOLHOLDERS		<b>6R</b>
	<b>MANDRINI FORTE SERRAGGIO</b> MILLING CHUCKS		<b>6S</b>
	<b>MANDRINI RIDUZIONI CONO MORSE</b> MORSE TAPPER TOOLHOLDERS		<b>6T</b>
	<b>MANDRINI RIDUZIONI ISO / HSK / PCS</b> REDUCING TOOLHOLDERS ISO / HSK / PCS		<b>6U</b>
	<b>MANDRINI PORTAFRESE CON FILETTO / ANTIVIBRAZIONE</b> ANTIVIBRATORY SCREW END MILL CHUCKS		<b>6V</b>
	<b>MANDRINI PORTAFRESE FISSO ANTI-VIBRAZIONE</b> ANTIVIBRATORY SHELL MILL HOLDERS		<b>6W</b>
	<b>MANDRINI A DISTRIBUZIONE DEL REFRIGERANTE</b> ER OIL HOLE HOLDERS COLLET CHUCKS		<b>6X</b>
	<b>BARRE DI CONTROLLO / BARRE TENERE</b> TEST ARBOR / BLANK BARS		
	<b>MANDRINI VARILOCK</b> VARILOCK TOOLHOLDERS		
	<b>ADATTATORI VARILOCK</b> VARILOCK ADAPTERS		

**Tabella tecnica**

Data sheet



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 thru

	SENZA PASSAGGIO DEL REFRIGERANTE WITHOUT COOLANT THRU	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.

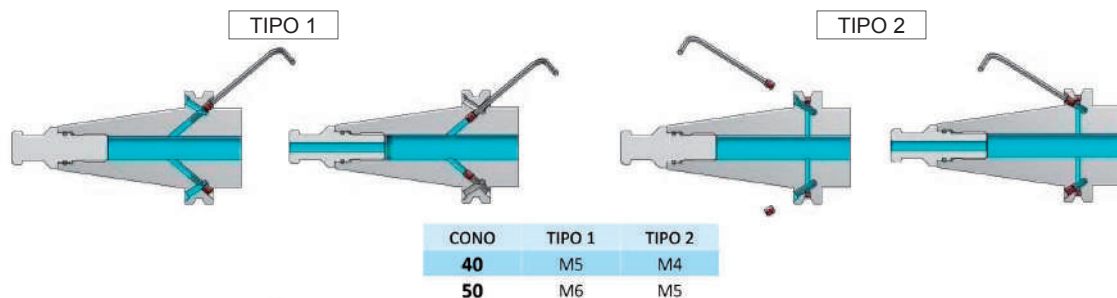
Nel sistema "TIPO 1" la regolazione avviene chiudendo il grano.

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

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

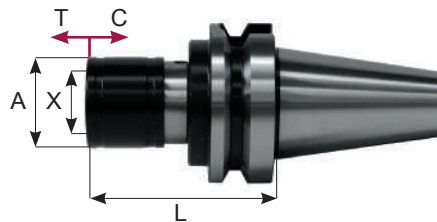
"TIPO 1" system works closing the screw.

"TIPO 2" system works removing the screw.



**Mandrini con compressione e trazione**

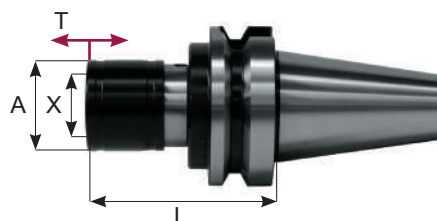
Tension and compression tapholders


**BT30 / 40 / 50**

CODICE	CAP	X	A	L	T	C	EUR
BT30-THTC0-L72	M1 ÷ M10	13	26	72	6.5	6.5	
BT40-THTC0-L74				74			
BT50-THTC0-L81				81			
BT30-THTC1-L61	M3 ÷ M12	19	36	61	7.5	7.5	
BT40-THTC1-L67				67			
BT50-THTC1-L77				77			
BT40-THTC2-L94	M8 ÷ M20	31	53	94	12.5	12.5	
BT50-THTC2-L101				101			
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**

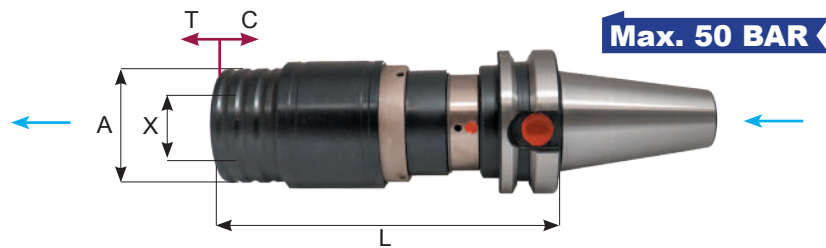
Tension tapholders


**BT30 / 40 / 50**

CODICE	CAP	X	A	L	T	C	EUR
BT30-THT0-L72	M1 ÷ M10	13	26	72	6.5	0	
BT40-THT0-L74				74			
BT50-THT0-L81				81			
BT30-THT1-L61	M3 ÷ M12	19	36	61	7.5	0	
BT40-THT1-L67				67			
BT50-THT1-L77				77			
BT40-THT2-L94	M8 ÷ M20	31	53	94	12.5	0	
BT50-THT2-L101				101			
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			

**Mandrini con compressione e trazione con passaggio del refrigerante**

Coolant thru tension/compression tapholders

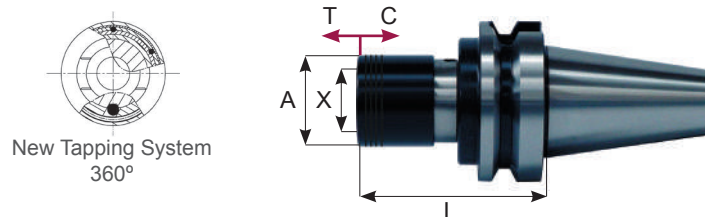


**BT40 / 50**

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			

**Mandrini con compressione e trazione MAS/403BT - GC**

Tension and compression tapholders MAS/403BT - GC



**BT40 / 50**

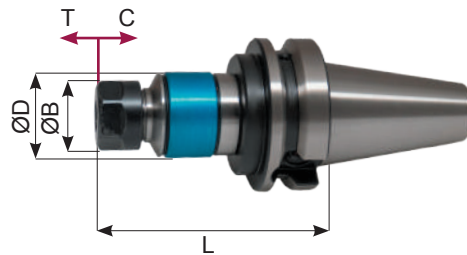
CODICE	CAP	X	A	L	T	C	EUR
BT40-GCTC1-L80	M3 ÷ M12	19	39	80	7.5	7.5	
BT50-GCTC1-L89				89			
BT40-GCT1-L72.5	M3 ÷ M12	19	39	72.5	12.5	0	
BT50-GCT1-L81.5				81.5			
BT40-GCTC2-L103	M8 ÷ M20	31	60	103	10	10	
BT50-GCTC2-L112				112			
BT40-GCT2-L93	M8 ÷ M20	31	60	93	16.5	0	
BT50-GCT2-L102				102			
BT50-GCTC3-L143	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 - Mandrini Portapinzette a micro-compensazione assiale in compressione e trazione**

Synchrofer ER tapholders

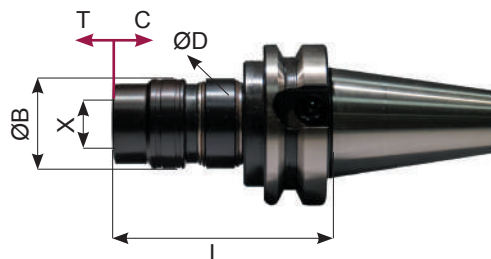


**SYNCHRO**

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 - Mandrini Portabussola a micro-compensazione assiale in compressione e trazione**

Synchrofer tapholders



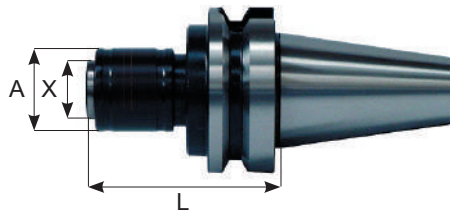
**SYNCHRO**

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 tapholders

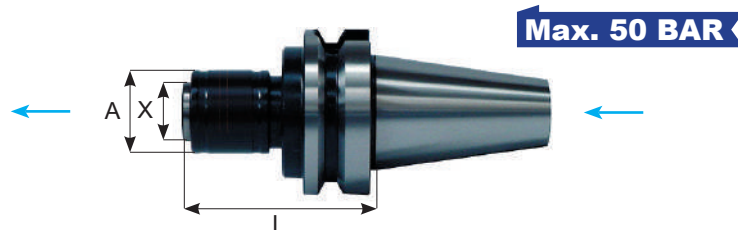


**BT40 / 50**

CODICE	CAP	X	A	L	EUR
BT30-TLR1-L60	M3 ÷ M12	19	32	60	
BT40-TLR1-L64	M3 ÷ M12			64	
BT50-TLR1-L81				81	
BT40-TLR2-L91	M8 ÷ M20	31	50	91	
BT50-TLR2-L100	M8 ÷ M20			100	
BT40-TLR3-L118	M14 ÷ M33	48	72	118	
BT50-TLR3-L127	M14 ÷ M33			127	
BT50-TLR4-L150	M22 ÷ M48	60	95	150	

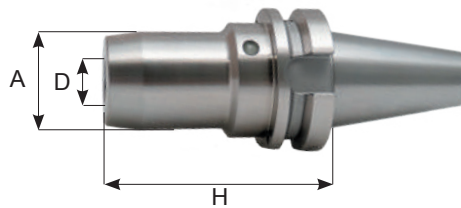
**Mandrini rigidi con passaggio del refrigerante**

Coolant rigid tapholders

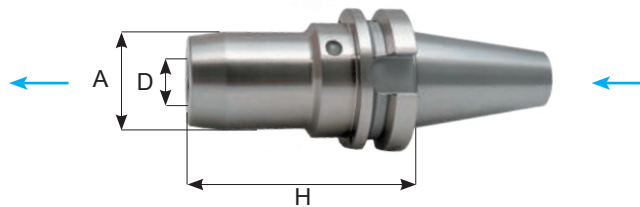


**BT40 / 50**

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

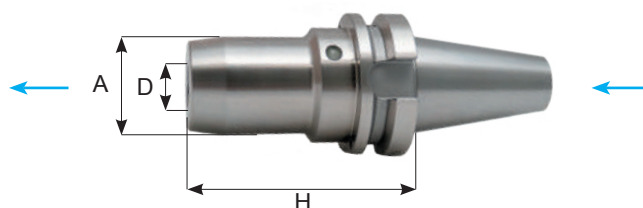
**Mandrini idraulici**  
 Hydraulic chucks

**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**  
 Coolant hydraulic chucks

**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.32		32		90	63	
BTB40.H140.HD.32		32		140	63	

**Mandrii idraulici con il passaggio del refrigerante**  
 Coolant hydraulic chucks


**BTB50**

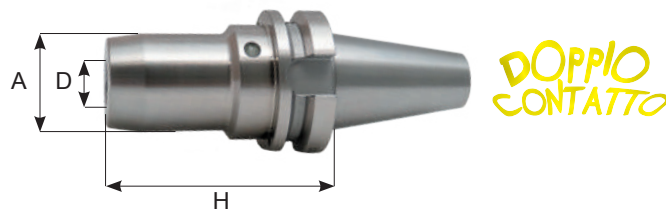
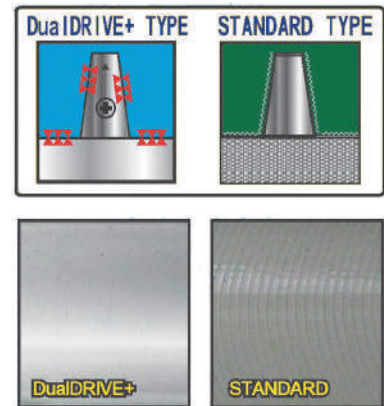
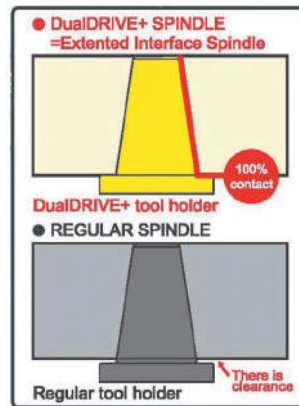
CODICE	FAM	D	FORMA	H	A	EUR
BTB50.H90.HD.6	5	6	AD+B	90	26	
BTB50.H140.HD.6		6		140	26	
BTB50.H90.HD.8		8		90	28	
BTB50.H140.HD.8		8		140	28	
BTB50.H90.HD.10		10		90	30	
BTB50.H140.HD.10		10		140	30	
BTB50.H90.HD.12		12		90	32	
BTB50.H140.HD.12		12		140	32	
BTB50.H90.HD.14		14		90	34	
BTB50.H140.HD.14		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

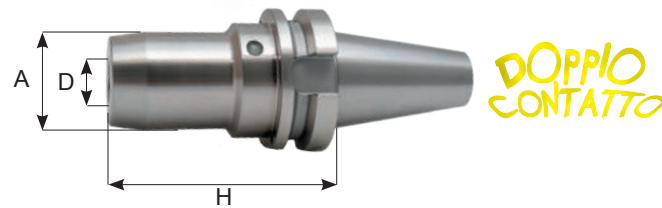


**DCBT30**

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

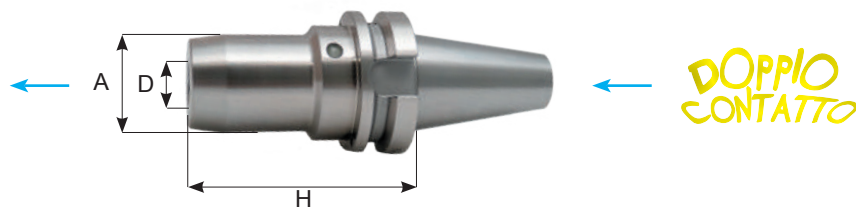


**DCBT40**

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		8		90	28	
DCBT40.H140.HD.8		8		140	28	
DCBT40.H90.HD.10		10		90	30	
DCBT40.H140.HD.10		10		140	30	
DCBT40.H90.HD.12		12		90	32	
DCBT40.H140.HD.12		12		140	32	
DCBT40.H90.HD.14		14		90	34	
DCBT40.H140.HD.14		14		140	34	
DCBT40.H90.HD.16		16		90	38	
DCBT40.H140.HD.16		16		140	38	
DCBT40.H90.HD.18		18		90	40	
DCBT40.H140.HD.18		18		140	40	
DCBT40.H90.HD.20		20		90	42	
DCBT40.H140.HD.20		20		140	42	
DCBT40.H90.HD.25		25		90	55	
DCBT40.H140.HD.25		25		140	55	
DCBT40.H90.HD.32		32		90	63	
DCBT40.H140.HD.32		32		140	63	

**Mandrini idraulici Doppio Contatto**

Coolant hydraulic chucks dual drive

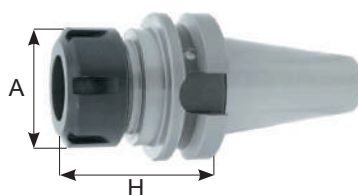


**DCBTB50**

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		8		90	28	
DCBTB50.H140.HD.8		8		140	28	
DCBTB50.H90.HD.10		10		90	30	
DCBTB50.H140.HD.10		10		140	30	
DCBTB50.H90.HD.12		12		90	32	
DCBTB50.H140.HD.12		12		140	32	
DCBTB50.H90.HD.14		14		90	34	
DCBTB50.H140.HD.14		14		140	34	
DCBTB50.H90.HD.16		16		90	38	
DCBTB50.H140.HD.16		16		140	38	
DCBTB50.H90.HD.18		18		90	40	
DCBTB50.H140.HD.18		18		140	40	
DCBTB50.H90.HD.20		20		90	42	
DCBTB50.H140.HD.20		20		140	42	
DCBTB50.H110.HD.25		25		110	55	
DCBTB50.H140.HD.25		25		140	55	
DCBTB50.H110.HD.32		32		110	63	
DCBTB50.H140.HD.32		32		140	63	

**Portapinze "TG"**

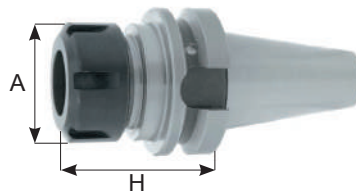
TG collet chucks


**BT30 / 40 / 50**

<b>CODICE</b>	<b>FAM</b>	<b>FORMA</b>	<b>H</b>	<b>A</b>	<b>EUR</b>
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	

**Portapinzine con ghiera STANDARD**

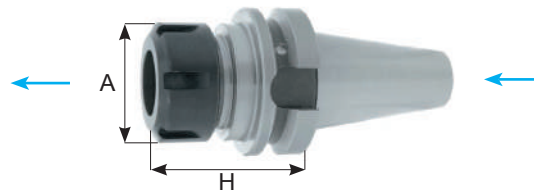
Collet chucks STANDARD nut


**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	

**Portapinzine con ghiera STANDARD con passaggio del refrigerante**

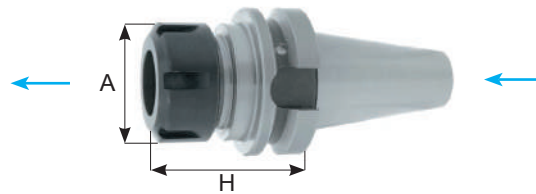
Coolant collet chucks with standard nut


**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			63		
BTB40.H70.ERC40		70					
BTB40.H100.ERC40		100					
BTB40.H130.ERC40		130					
BTB40.H160.ERC40		160			78		
BTB40.H200.ERC40		200					
BTB40.H85.ERC50		6 ÷ 34				85	

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

**Portapinze con ghiera STANDARD con passaggio del refrigerante**  
 Coolant collet chucks with standard nut


**BTB50**

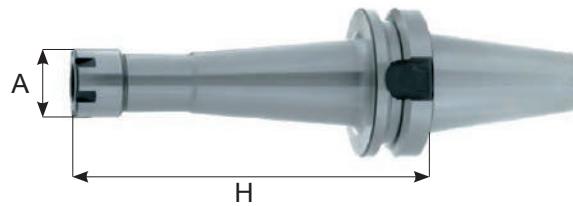
CODICE	FAM	CAP	RPM	FORMA	H	A	EUR		
BTB50.H100.ERC16	1	1 ÷ 10	12.000	AD+B	100	28			
BTB50.H160.ERC16					160				
BTB50.H200.ERC16					200				
BTB50.H100.ERC20					1 ÷ 14		100	34	
BTB50.H160.ERC20							160		
BTB50.H200.ERC20							200		
BTB50.H80.ERC25		1 ÷ 20			80	42			
BTB50.H100.ERC25					100				
BTB50.H130.ERC25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

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



**Portapinze con ghiera MINI**

Collet chucks 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 con ghiera MINI con passaggio del refrigerante**

Coolant collet chucks with MINI nut

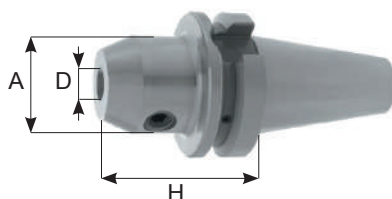

**BTB40 / 50**

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			100	22				
BTB40.H130.ERC16M					130					
BTB40.H160.ERC16M					160					
BTB40.H100.ERC20M		1 ÷ 14			100	28				
BTB40.H130.ERC20M					130					
BTB40.H160.ERC20M					160					
BTB40.H100.ERC25M		1 ÷ 20			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.H100.ERC20M					1 ÷ 14			100	28	
BTB50.H130.ERC20M								130		
BTB50.H160.ERC20M								160		
BTB50.H200.ERC20M					1 ÷ 20			200	35	
BTB50.H100.ERC25M								100		
BTB50.H130.ERC25M								130		
BTB50.H160.ERC25M					1 ÷ 20			160	35	
BTB50.H200.ERC25M								200		

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

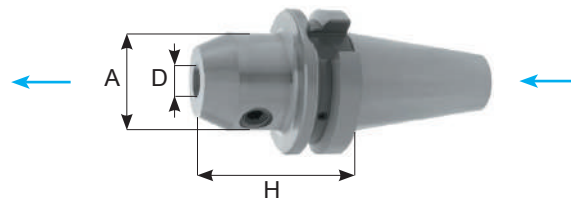
**Portafrese Weldon DIN/1835-B**

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.H100.WE14		14		100	44	
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		

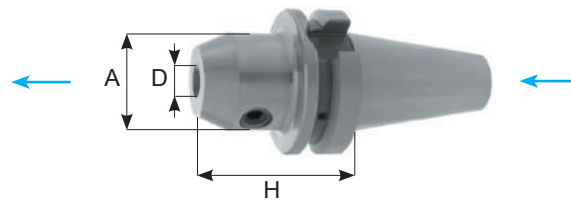
**Portafrese Weldon DIN/1835-B con passaggio del refrigerante**  
 Coolant end mill holders DIN/1835-B


**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		50	28	
BTB40.H100.WE8				100		
BTB40.H130.WE8				130		
BTB40.H160.WE8				160		
BTB40.H63.WE10		10		63	35	
BTB40.H100.WE10				100		
BTB40.H130.WE10				130		
BTB40.H160.WE10				160		
BTB40.H63.WE12		12		63	42	
BTB40.H100.WE12				100		
BTB40.H130.WE12				130		
BTB40.H160.WE12				160		
BTB40.H63.WE14		14		63	44	
BTB40.H100.WE14				100		
BTB40.H130.WE14				130		
BTB40.H160.WE14				160		
BTB40.H63.WE16		16		63	48	
BTB40.H100.WE16				100		
BTB40.H130.WE16				130		
BTB40.H160.WE16				160		
BTB40.H200.WE16		18		200	50	
BTB40.H63.WE18				63		
BTB40.H100.WE18				100		
BTB40.H130.WE18				130		
BTB40.H160.WE18		20		160	52	
BTB40.H200.WE18				200		
BTB40.H63.WE20				63		
BTB40.H100.WE20				100		
BTB40.H130.WE20		25		130	65	
BTB40.H160.WE20				160		
BTB40.H200.WE20				200		
BTB40.H90.WE25				90		
BTB40.H100.WE32		32		100	72	
BTB40.H130.WE32				130		
BTB40.H160.WE32				160		
BTB40.H200.WE32				200		
BTB40.H120.WE40	40	120	80			

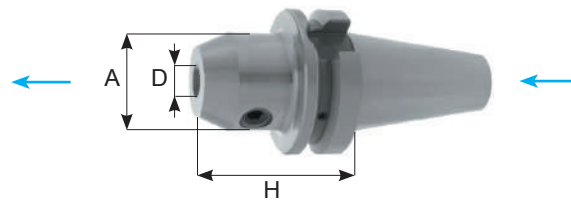
**DISPONIBILI IN ALTRE MISURE, CONTATTA IL COMMERCIALE PER MAGGIORI DETTAGLI**  
 AVAILABLE IN OTHERS MEASURES CALL YOUR DEALER FOR MORE DETAILS

**Portafrese Weldon DIN/1835-B con passaggio del refrigerante**  
 Coolant end mill holders DIN/1835-B


**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		8	63	28	
BTB50.H100.WE8					100		
BTB50.H130.WE8					130		
BTB50.H160.WE8					160		
BTB50.H200.WE8		10		10	200	35	
BTB50.H80.WE10					80		
BTB50.H100.WE10					100		
BTB50.H130.WE10					130		
BTB50.H160.WE10					160		
BTB50.H200.WE10		12		12	200	42	
BTB50.H80.WE12					80		
BTB50.H100.WE12					100		
BTB50.H130.WE12					130		
BTB50.H160.WE12		14		14	160	44	
BTB50.H200.WE12					200		
BTB50.H80.WE14	80						
BTB50.H100.WE14	100						
BTB50.H130.WE14	130						
BTB50.H160.WE14	16	16	160	48			
BTB50.H200.WE14			200				
BTB50.H80.WE16			80				
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**  
Coolant end mill holders DIN/1835-B

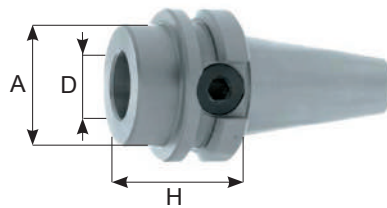


**BTB50**

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			
BTB50.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	80	
BTB50.H160.WE40				AD+B	160		
BTB50.H200.WE40				200			
BTB50.H125.WE50				50	125		100

**Portafrese Weldon extra corto DIN/1835-B**

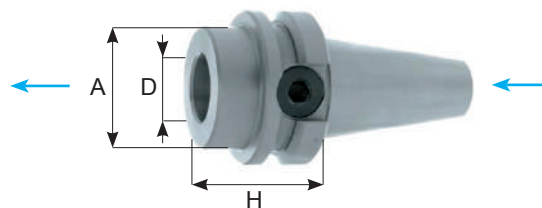
Short end mill holders DIN/1835-B


**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	

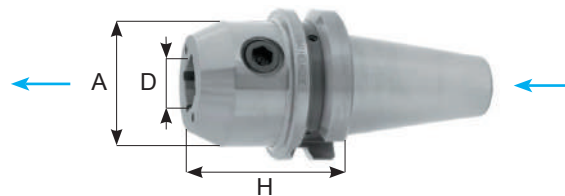
**Portafrese Weldon extra corto DIN/1835-B con passaggio del refrigerante**

Short coolant end mill holders DIN/1835-B


**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		16		44	70		
BTB50.H44.WE20		20					
BTB50.H44.WE25		25					
BTB50.H44.WE32		32					
BTB50.H44.WE40	40						

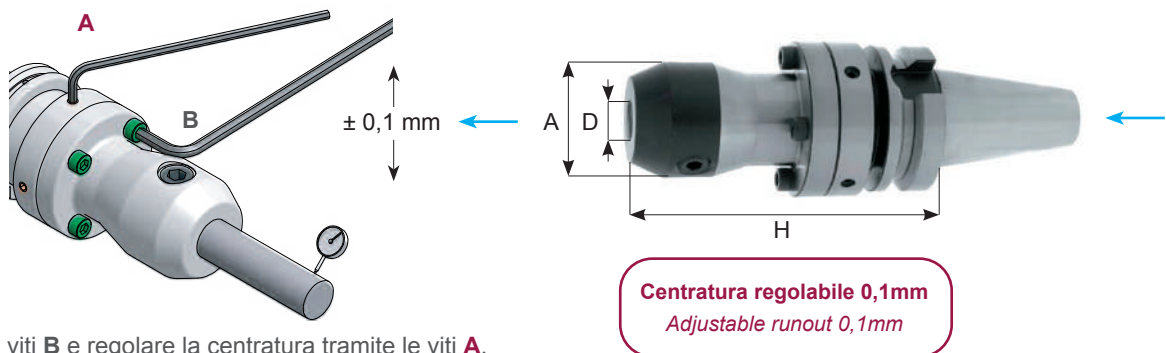
**Portafrese Weldon con passaggio del refrigerante**  
Coolant end mill holders



**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 coolant end mill holders



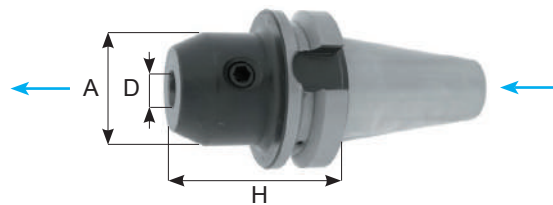
Allentare le viti **B** e regolare la centratura tramite le viti **A**.  
Loosen screws **B** and use screws **A** for radial adjustment.

**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**

Coolant Whistle-Notch and mill holders

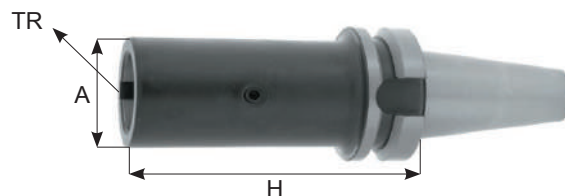


**BTB40 / 50**

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		12		6	AD+B	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.H120.WHN40	40	120	80					

**Mandrini riduzione per DIN/6327**

Reduction spindles DIN/6327

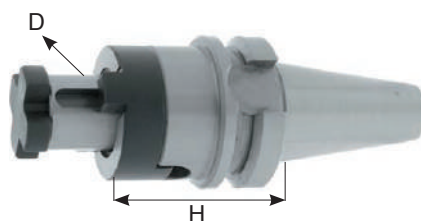


**BT40 / 50**

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	

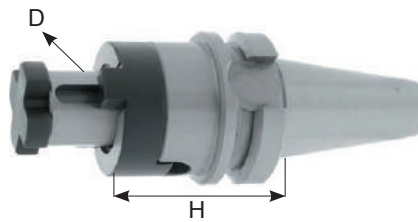


**Portafrese combinato**  
 Combi shell end mill holders


**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		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		160			
BT40.H55.D27C		27		55	
BT40.H100.D27C		100			
BT40.H130.D27C		130			
BT40.H160.D27C		160			
BT40.H60.D32C		32		60	
BT40.H100.D32C		100			
BT40.H130.D32C		130			
BT40.H160.D32C		160			
BT40.H60.D40C		40		60	
BT40.H100.D40C		100			
BT40.H130.D40C		130			
BT40.H160.D40C		160			

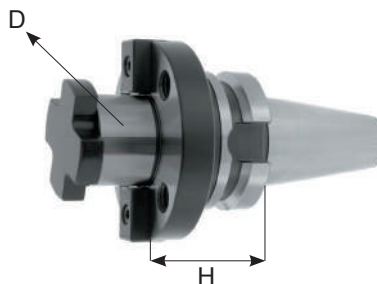
**Portafrese combinato**  
Combi shell end mill holders



**BT50**

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

**Portafrese fisso con diametro maggiorato**  
Face mill holders

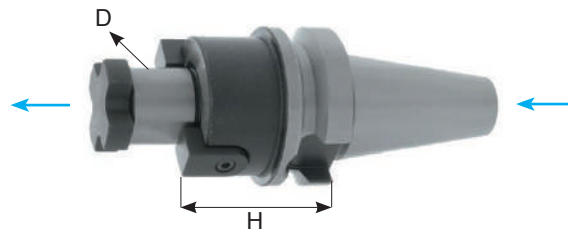


**BT40 / 50**

CODICE	FAM	D	FORMA	H	EUR
BTB40.H60.D40FM	12	40	AD+B	60	
BTB50.H70.D40FM		40	AD+B	70	
BTB50.H80.D60FM		60	AD+B	80	

**Portafrese fisso con passaggio del refrigerante**

Coolant shell end mill holders

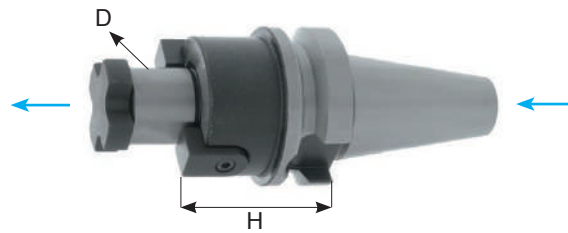


**BTB40**

<b>CODICE</b>	<b>FAM</b>	<b>D</b>	<b>FORMA</b>	<b>H</b>	<b>EUR</b>
BTB40.H45.D16S	1	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 refrigerante**

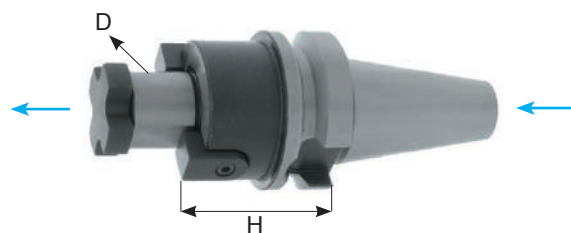
Coolant shell end mill holders


**BTB50**

CODICE	FAM	D	FORMA	H	EUR
BTB50.H50.D16S	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				

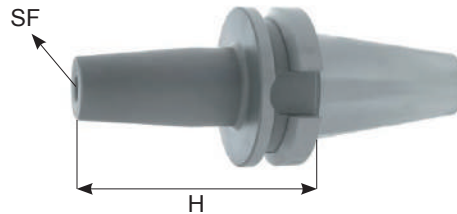
**Portafrese fisso con passaggio del refrigerante**

Coolant shell end mill holders

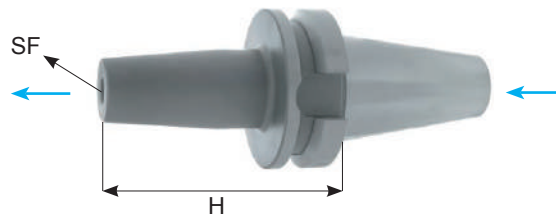


**BTB50**

<b>CODICE</b>	<b>FAM</b>	<b>D</b>	<b>FORMA</b>	<b>H</b>	<b>EUR</b>
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

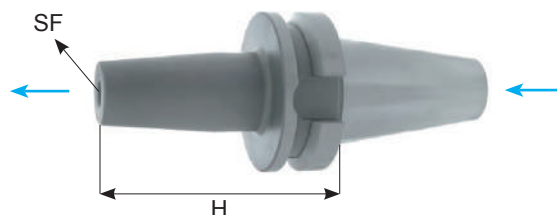
CODICE	FAM	SF	FORMA	H	EUR
BT30.H80.SF3	5	SF3	AD	80	
BT30.H80.SF4		SF4		80	
BT30.H80.SF5		SF5		80	
BT30.H80.SF6		SF6		80	
BT30.H80.SF8		SF8		80	
BT30.H80.SF10		SF10		80	
BT30.H80.SF12		SF12		80	
BT30.H80.SF16		SF16		80	
BT30.H80.SF20		SF20		80	

**Mandrini a calettamento con passaggio del refrigerante (4,5°)**  
 Coolant Shrink fit holders (4,5°)

**BTB40**
**BILANCIATO G2,5 RPM25000**  
 BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
BTB40.H90.SF3	5	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°)**

Coolant Shrink fit holders (4,5°)



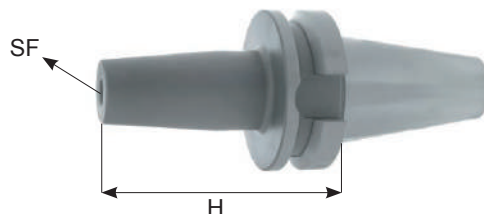
**BTB50**

**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	

**Mandrini a calettamento silm (3°)**

Slim Shrink fit holders (3°)



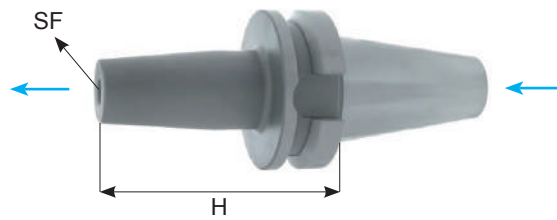
**BT30**

**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	
BT30.H80.SF14		SF14		80	
BT30.H100.SF14		SF14		100	
BT30.H80.SF16		SF16		80	
BT30.H100.SF16		SF16		100	
BT30.H80.SF18		SF18		80	
BT30.H100.SF18		SF18		100	
BT30.H80.SF20		SF20		80	
BT30.H100.SF20		SF20		100	

**Mandrini a calettamento con passaggio del refrigerante slim (3°)**

Slim coolant Shrink fit holders (3°)



**BTB40**

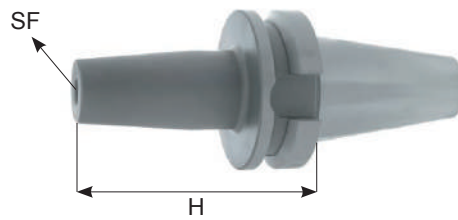
**BILANCIATO G2,5 RPM25000**  
BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
BTB40.H90.SF3	5	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	
BTB40.H90.SF14		SF14		90	
BTB40.H120.SF14		SF14		120	
BTB40.H160.SF14		SF14		160	
BTB40.H90.SF16		SF16		90	
BTB40.H120.SF16		SF16		120	
BTB40.H160.SF16		SF16		160	
BTB40.H90.SF18		SF18		90	
BTB40.H120.SF18		SF18		120	
BTB40.H160.SF18		SF18		160	
BTB40.H90.SF20		SF20		90	
BTB40.H120.SF20		SF20		120	
BTB40.H160.SF20		SF20		160	



**Mandrini a calettamento con passaggio del refrigerante slim (3°)**

Slim coolant Shrink fit holders (3°)

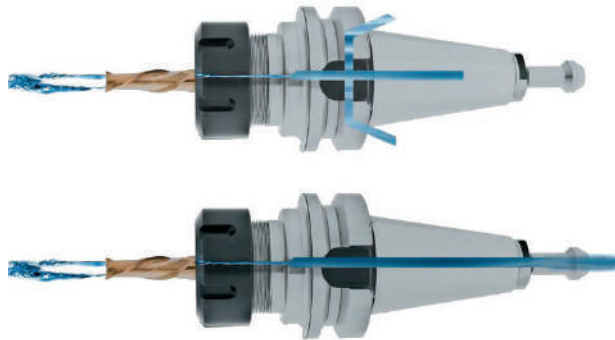

**BTB50**
**BILANCIATO G2,5 RPM25000**  
 BILANCED G2,5 RPM25000

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	
BTB50.H90.SF14		SF14		90	
BTB50.H120.SF14		SF14		120	
BTB50.H160.SF14		SF14		160	
BTB50.H90.SF16		SF16		90	
BTB50.H120.SF16		SF16		120	
BTB50.H160.SF16		SF16		160	
BTB50.H90.SF18		SF18		90	
BTB50.H120.SF18		SF18		120	
BTB50.H160.SF18		SF18		160	
BTB50.H90.SF20		SF20		90	
BTB50.H120.SF20		SF20		120	
BTB50.H160.SF20		SF20		160	

**Mandrini a doppio contatto**  
Dual drive tapholders

**Forma**  
AD+B = BTB

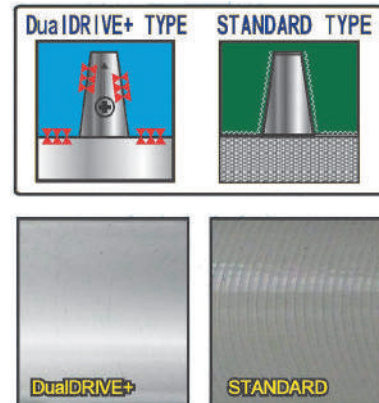
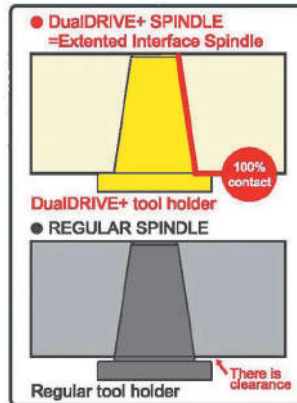
**Forma**  
AD = BT



**DOPPIO  
CONTATTO**

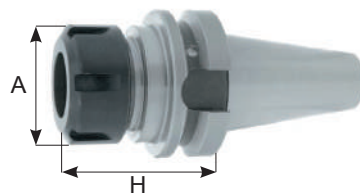


CONO TAPER	FORMA FORM
DCBT30	AD
DCBT40	AD
DCBT50	AD



**Portapinze con ghiera STANDARD Doppio Contatto**

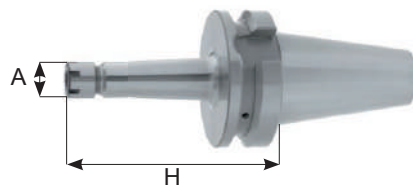
Dual drive ER tapholders standard nut


**DOPPIO  
 CONTATTO**
**DBT30 / DBTB40 / 50**

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
DBT30.H70.ERC16	1	1 ÷ 10	12.000	AD	70	28	
DBT30.H70.ERC20		1 ÷ 14			70	34	
DBT30.H70.ERC25		1 ÷ 20			70	42	
DBT30.H70.ERC32		2 ÷ 22			70	50	
DBT30.H80.ERC40		3 ÷ 30			80	63	
DBTB40.H70.ERC16		1 ÷ 10			70	28	
DBTB40.H100.ERC16					100		
DBTB40.H70.ERC20		1 ÷ 14			70	34	
DBTB40.H100.ERC20					100		
DBTB40.H70.ERC25		1 ÷ 20			70	42	
DBTB40.H100.ERC25					100		
DBTB40.H70.ERC32		2 ÷ 22			70	50	
DBTB40.H100.ERC32					100		
DBTB40.H70.ERC40		3 ÷ 30			70	63	
DBTB40.H100.ERC40					100		
DBTB50.H80.ERC16		1 ÷ 10			80	28	
DBTB50.H100.ERC16					100		
DCBT50.H80.ERC20		1 ÷ 14			80	34	
DBTB50.H100.ERC20					100		
DBTB50.H80.ERC25		1 ÷ 20			80	42	
DBTB50.H100.ERC25					100		
DBTB50.H80.ERC32		2 ÷ 22			80	50	
DBTB50.H100.ERC32					100		
DBTB50.H130.ERC32					130		
DBTB50.H200.ERC32					200		
DBTB50.H80.ERC40		3 ÷ 30			80	63	
DBTB50.H100.ERC40					100		

**Portapinze con ghiere MINI Doppio Contatto**

Dual drive ER tapholders mini nut



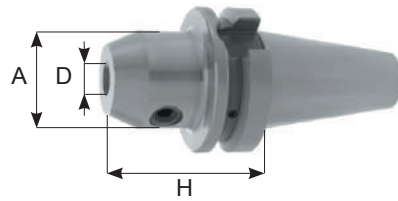
**DOPPIO  
CONTATTO**

**DBT30 / DBTB40 / 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.H100.ERC16M		1 ÷ 10				100	22	
DCBT50.H100.ERC20M		1 ÷ 14				100	28	

**Portafrese Weldon DIN/1835-B Doppio Contatto**

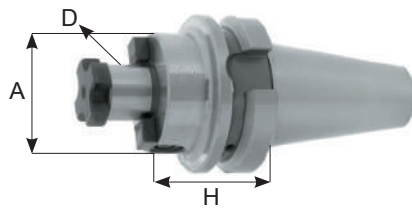
Dual drive end mill holders DIN 1835-B


**DOPPIO  
 CONTATTO**
**DBT30 / DBTB40 / 50**

CODICE	FAM	D	FORMA	H	A	EUR
DBTB40.H63.WE16	1	6	AD+B	50	25	
DBTB40.H63.WE18		8		50	28	
DBTB40.H63.WE20		10		50	35	
DBTB40.H100.WE25		12		50	42	
DBTB40.H100.WE32		16		63	48	
DBTB50.H63.WE6		20		63	52	
DBTB50.H63.WE8		25		90	65	
DBTB50.H63.WE10		6		50	25	
DBTB50.H80.WE12		8		50	28	
DBTB50.H80.WE16		10		63	35	
DBTB50.H80.WE20		12		63	42	
DBTB50.H100.WE25		16		63	48	
DBTB50.H105.WE32		18		63	50	
DBTB50.H120.WE40		20		63	52	
DBTB50.H125.WE50		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 Contatto**

Dual drive shell end mill holders



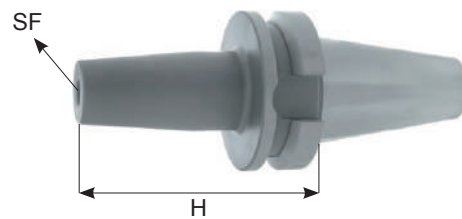
**DOPPIO  
CONTATTO**

**DBT30 / DBTC40 / 50**

CODICE	FAM	D	FORMA	H	A	EUR
DBT30.H45.D16S	1	16	AD	45	48	
DBT30.H45.D22S		22				
DBT30.H45.D27S		27				
DBT30.H45.D32S		32				
DBTB40.H45.D22S		22		45	48	
DBTB40.H45.D27S		27		45	60	
DBTB40.H60.D27S		27		60	60	
DBTB40.H60.D32S		32		60	78	
DBTB40.H60.D40S		40		60	80	
DBTB50.H50.D16S		16		50	38	
DBTB50.H55.D22S		22		55	48	
DBTB50.H55.D27S		27			58	
DBTB50.H55.D32S		32			78	
DBTB50.H55.D40S		40			88	

**Mandrini a calettamento (4,5°) Doppio Contatto**

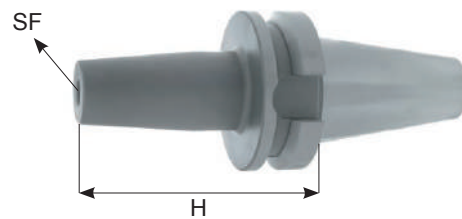
Dual drive shrink fit holders (4,5°)


**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
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 (4,5°) Doppio Contatto**

Dual drive shrink fit holders (4,5°)

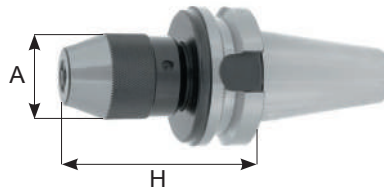

**DOPPIO  
 CONTATTO**
**DCBT50**
**BILANCIATO G2,5 RPM25000**  
 BILANCED G2,5 RPM25000

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 portapunte con chiavi a gancio**

Drill chuck with hook wrench



**BT30 / 40 / 50**

CODICE	FAM	CAP	H	A	EUR
BT30.H75.DCK8S	1	0.5 ÷ 8	75	36	
BT30.H90.DCK13S		1 ÷ 13	90	50	
BT40.H84.DCK8S		0.5 ÷ 8	84	36	
BT40.H98.DCK13S		1 ÷ 13	98	50	
BT40.H105.DCK16S		2.5 ÷ 16	105	58	
BT50.H105.DCK13S		1 ÷ 13	105	50	
BT50.H110.DCK16S		2.5 ÷ 16	110	58	

**Portapunte con chiavi a gancio**

Drill chuck with hook wrench heads



**DCK**

CODICE	FAM	CAP	EUR
DCK8.MT2S	1	0.5 ÷ 8	
DCK13.MT3S		1 ÷ 13	
DCK16.MT3S		2.5 ÷ 16	

**Chiavi a settore per  
mandrini Portapunte**

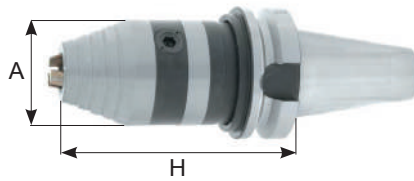
Hook Wrenches  
for drill chucks

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



**Mandrini Portapunte a forte serraggio con chiavi esagonali**

Exagonal key look drill chucks titanium jaws


**BT40 / 50**

CODICE	FAM	CAP	FORMA	H	A	EUR
BT40.H89.CP8S	1	0.5 ÷ 8	AD	89	37.5	
BT40.H115.CP13S		1 ÷ 13		115	50	
BT40.H120.CP16S		2.5 ÷ 16		120	50	
BT50.H120.CP13S		1 ÷ 13		120	50	
BT50.H125.CP16S		2.5 ÷ 16		125	50	

**Portapunte a forte serraggio**

Replacement drill chuck heads


**CP**

CODICE	FAM	CAP	EUR
CP13.MT3	1	1 ÷ 13	
CP16.MT3		2.5 ÷ 16	

**Chiavi esagonali per mandrini  
 portapunte autoserranti**

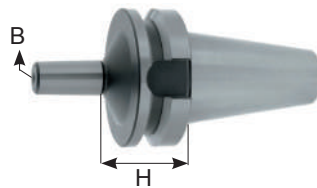
Wrenches for drill chucks

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



**Attacco per Mandrini autoserranti**

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	

**Mandrini autoserranti manuali con griffe in Acciaio**

Drill Chuck heads with Stainless Jaws

**DC**

CODICE	CAP	B
DC13.B16	1 ÷ 13	16
DC16.B16	2.5 ÷ 16	16
DC16.B18		18



**Mandrini autoserranti manuali con griffe in Titanio**

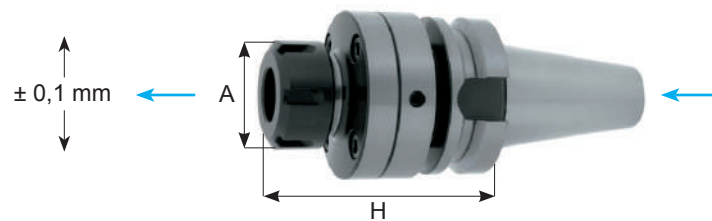
Drill Chuck heads with Titanium Coated Jaws

**DCK**

CODICE	CAP	B
DC8S.B12	0.5 ÷ 8	12
DC10S.B12	0.5 ÷ 10	
DC13S.B12	1 ÷ 13	
DC13S.B16	1 ÷ 13	16
DC16S.B16	2.5 ÷ 16	18
DC16S.B18		



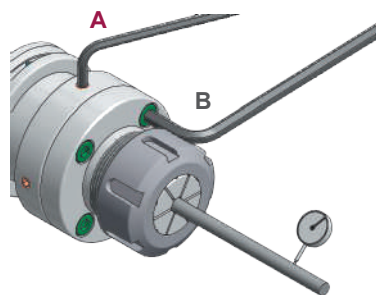
**Portapinze con regolazione radiale e passaggio del refrigerante**  
Coolant radial adjustable collet chucks



**BT40 / 50**

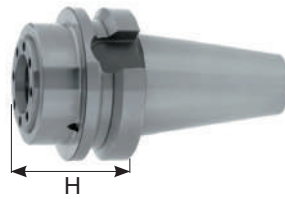
CODICE	FAM	CAP	PINZA	FORMA	FLOT	H	A	EUR
BTB40.ERC16.L93RG	1	1 ÷ 10	ER16	AD	$\pm 1 \text{ mm}$	93	28	
BTB40.ERC20.L95RG		1 ÷ 14	ER20			95	34	
BTB40.ERC25.L96RG		1 ÷ 20	ER25			96	42	
BTB40.ERC32.L97RG		2 ÷ 22	ER32			97	50	
BTB40.ERC40.L131RG		3 ÷ 30	ER40			131	63	
BTB50.ERC16.L103RG		1 ÷ 10	ER16			103	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 0,1mm**  
*Adjustable runout 0,1mm*



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

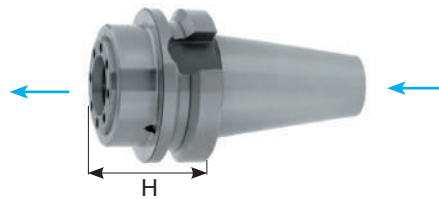
**Portapinze extra corto**  
Shortly Collet chucks



**BT40 / 50**

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

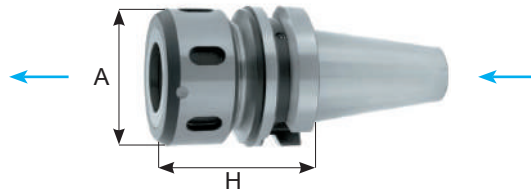
**Portapinze extra corto con passaggio del refrigerante**  
Coolant Shortly Collet chucks



**BTB40 / 50**

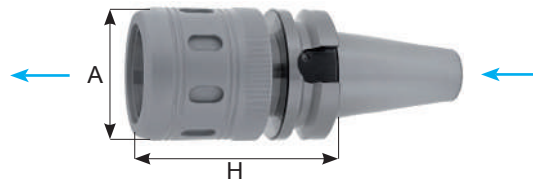
CODICE	FAM	CAP	RPM	FORMA	H	EUR
BTB40.H50.ERC32A	1	2 ÷ 22	12.000	AD	50	
BTB50.H40.ERC32A					40	

**Portapinze per pinze EOC DIN/6388 B con passaggio del refrigerante**  
 Coolant collet chucks EOC DIN/6388 B


**BTB40 / 50**

<b>CODICE</b>	<b>FAM</b>	<b>CAP</b>	<b>RPM</b>	<b>FORMA</b>	<b>H</b>	<b>A</b>	<b>EUR</b>	
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			3 ÷ 32	70	43	
BTB50.H70.EOC25						70	60	
BTB50.H80.EOC32						80	72	

**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.FS20	1	3 ÷ 16	AD+B	100	56	
BTB40.H100.FS32		4 ÷ 25		100	70	
BTB50.H105.FS20		3 ÷ 16		105	56	
BTB50.H105.FS32		4 ÷ 25		105	70	

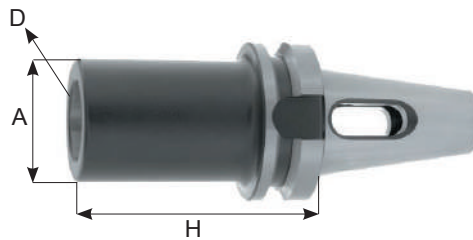
**Kit mandrino portapinze a forte serraggio**  
Kit ER tooholder

CODICE	FAM	CAPACITÀ	EUR
BX.BTB40.FS20	1	Pinza 3SR20	
BX.BTB50.FS20		6 . 8 . 10 . 12 . 16	
BX.BTB40.FS32		Pinza 3SR32	
BX.BTB50.FS32		6 . 8 . 10 . 12 . 16 . 20 . 25	



**Mandrini riduttori con morse DIN/228-B per Punta**

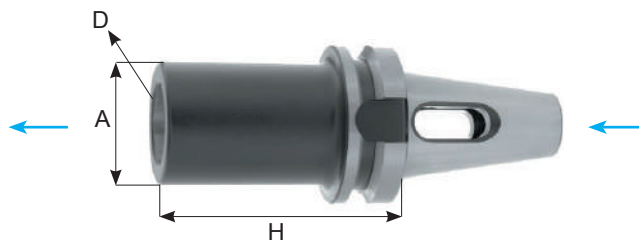
Morse taper DIN/228-B for Drills


**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	

**Mandrini riduttori con morse DIN/228-B per Punta con passaggio refrigerante**

Coolant morse taper DIN/228-B for Drills

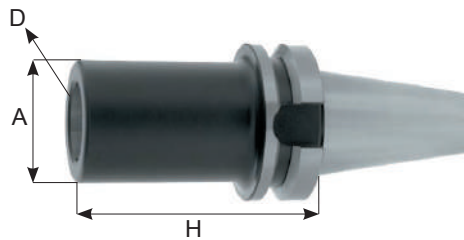

**BTB40 / 50**

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	



**Mandrini riduttori cono morse DIN/228-A per Frese**

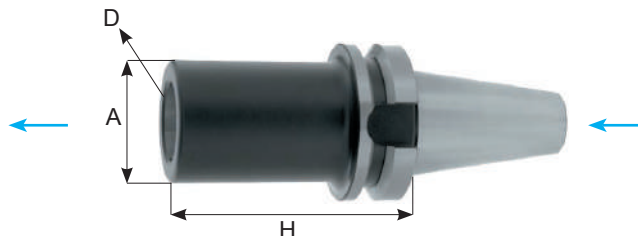
Morse taper DIN/228-A for Threaded Mills


**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	

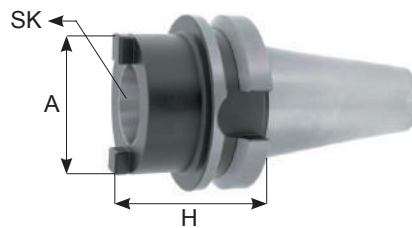
**Mandrini riduttori cono morse DIN/228-A per Frese con passaggio refrigerante**

Coolant morse taper DIN/228-A for Threaded Mills


**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	

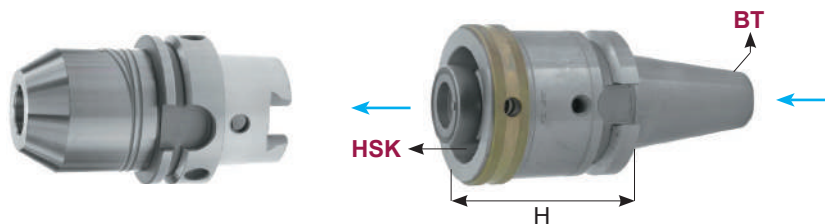
**Mandrini riduttori da BT a ISO DIN/2080 - DIN/69871 - BT**  
 Reducing adaptors from BT to ISO DIN/2080 - DIN/698871 - BT



**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	

**Mandrini riduttori da BT a HSK - A/C con passaggio del refrigerante**  
 Coolant adaptors from BT shank to HSK - A/C



**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				HSK32A/C	70	
BTB40.H80.HSK40AC	1	BT40		HSK40A/C	80	
BTB40.H70.HSK50AC				HSK50A/C	70	
BTB40.H75.HSK63AC				HSK63A/C	75	
BTB40.H100.HSK80AC	8	BT50		HSK80A/C	100	
BTB50.H70.HSK32AC				HSK32A/C	70	
BTB50.H70.HSK40AC				HSK40A/C	70	
BTB50.H75.HSK63AC	1	BT50		HSK63A/C	75	
BTB50.H100.HSK80AC	8			HSK80A/C	100	
BTB50.H110.HSK100AC	1			HSK100A/C	110	
BTB50.H140.HSK125AC	8		HSK125A/C	140		

**Mandrini riduttori da BT a PSC - ECA ISO 26623-1**

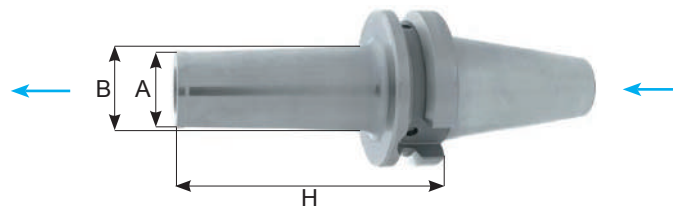
Adapters from BT shank to PSC - ECA ISO 26623-1


**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	

**Mandrini per frese con attacco filettato con passaggio del refrigerante**

Coolant screw in mill chucks


**BTB40 / 50**

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

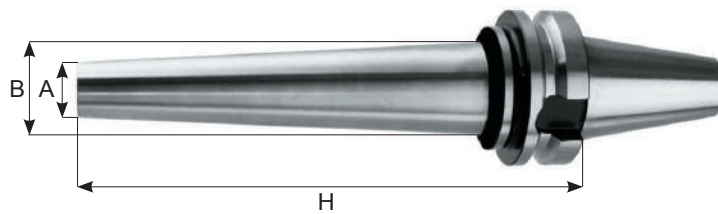
**Momento di serraggio consigliato**

Recommended tightening torque for screwed mills

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

**Mandrini per frese con attacco filettato antivibrazione**

Antivibratory screw in mill chucks


**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.H300.M12AV		13		M12	300	21	47		
BT50.H400.M12AV					400		57		
BT50.H300.M16AV				M16	300	29	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.

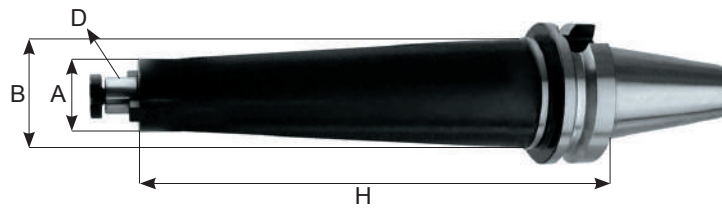
**Momento di serraggio consigliato**

Recommended tightening torque for screwed mills

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

**Portafrese fisso antivibrazione con conicità DIN/138**

Antivibratory shell mill holders 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		22	150	44	50		
BT40.H200.D22AV					200				
BT40.H250.D22AV					250				
BT40.H300.D22AV					300				
BT50.H150.D16AV		13		16	AD	150	38	80	
BT50.H200.D16AV						200			
BT50.H250.D16AV						250			
BT50.H300.D16AV						300			
BT50.H400.D16AV	22		22	400		48	80		
BT50.H200.D22AV				200					
BT50.H250.D22AV				250					
BT50.H300.D22AV				300					
BT50.H400.D22AV	27		27	400		60	80		
BT50.H500.D22AV				500					
BT50.H200.D27AV				200					
BT50.H250.D27AV				250					
BT50.H300.D27AV	27	27	300	60	80				
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/138**

Antivibratory shell mill holders 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-58		27	150	58			
BT40.H200.D27AV-58			200				
BT40.H250.D27AV-58			250				
BT40.H300.D27AV-58		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-58			22	200	58		
BT50.H250.D22AV-58				250			
BT50.H300.D22AV-58				300			
BT50.H400.D22AV-58				400			
BT50.H500.D22AV-58				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 holders DIN/138



**BT50**

**ANTIVIBRAZIONE**

CODICE	FAM	D	H	A	EUR
BT50.H200.D27AV-58	13	27	200	58	
BT50.H250.D27AV-58			250		
BT50.H300.D27AV-58			300		
BT50.H400.D27AV-58			400		
BT50.H500.D27AV-58			500		
BT50.H200.D32AV-78		32	200	78	
BT50.H250.D32AV-78			250		
BT50.H300.D32AV-78			300		
BT50.H400.D32AV-78			400		
BT50.H500.D32AV-78			500		

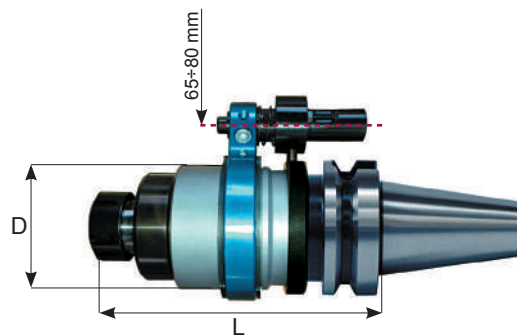
**Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.**

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



**Distributore rotante del refrigerante portapinzze**

ER oil hole holders collet chucks


**BT40 / 50**

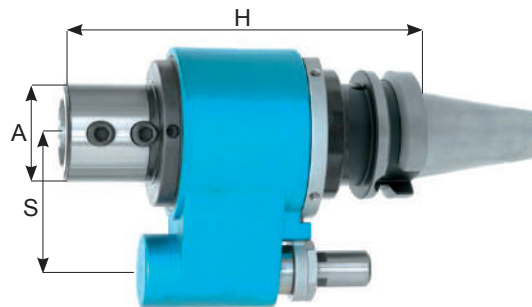
CODICE	FAM	CONO	TIPO	CAP	D	L	BAR	RPM	EUR
BT40.ERC20DR	1	BT40	ER20	1 ÷ 14	67	160	7	3000	
BT40.ERC25DR			ER25	1 ÷ 20	75			2000	
BT40.ERC32DR			ER32	2 ÷ 22	90			1000	
BT50.ERC20DR		BT50	ER20	1 ÷ 14	67			2500	
BT50.ERC25DR			ER25	1 ÷ 20	75			2000	
BT40.ERC32DR			ER32	2 ÷ 22	90			1000	

CARATTERISTICHE	S
Giro Max / Max rpm	3.500
Precisione del refrigerante	Max 7 bar

Per preservare dall'usura precoce le speciali guarnizioni di tenuta del distributore, il liquido refrigerante deve essere filtrato con residuo max 5 micron.

**Distributore rotante del refrigerante per attacchi cilindrici**

Side lock oil hole holders


**BT40 / 50**

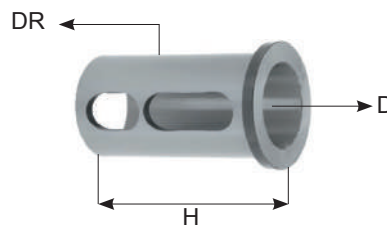
CODICE	FAM	S	FORMA	H	A	EUR
BT40-D32DR	1	65	AD	165	49.5	
BT50-D40DR		80		170	56	

Altre misure su richiesta

CARATTERISTICHE	S
Giro Max / Max rpm	3.500
Precisione del refrigerante	Max 7 bar

**Pinze per distributore rotante di refrigerazione**

Side lock oil hole holders collets

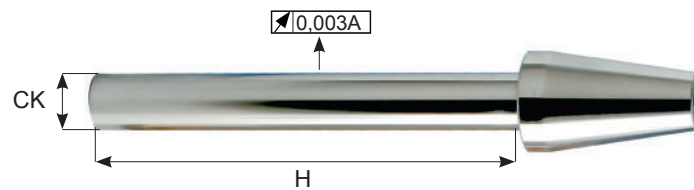


CODICE	FAM	D	DR	H	EUR	
E2-1.32-16	1	16	32	70		
E2-1.32-20		20				
E2-1.32-25		25				
E2-1.40-16		16	40	80		
E2-1.40-20		20				
E2-1.40-25		25				
E2-1.40-32		32				

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

**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**

Blank bars MAS/403BT

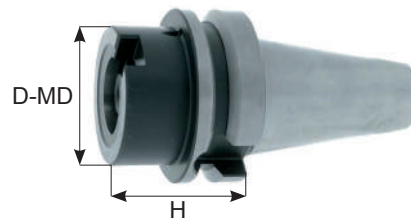


**BT30 / 40 / 50**

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

**Mandrini modulari sistema Varilock**

Valirock system toolholders



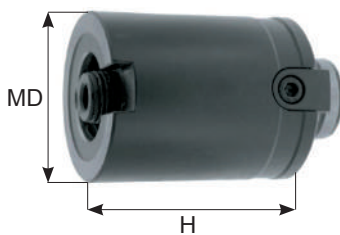
**BTB40 / 50**

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**

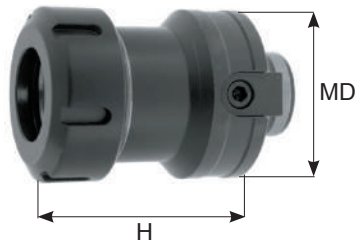


CODICE	FAM	MD	H	EUR
MD50.H60.MD50	1	50	60	
MD50.H80.MD50			80	
MD50.H100.MD50			100	
MD63.H80.MD63		63	80	
MD63.H120.MD63			120	
MD80.H80.MD80		80	80	
MD80.H100.MD80			100	
MD80.H120.MD80			120	
MD80.H140.MD80			140	
MD80.H160.MD80			160	

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**Portapinze modulari sistema Varilock**

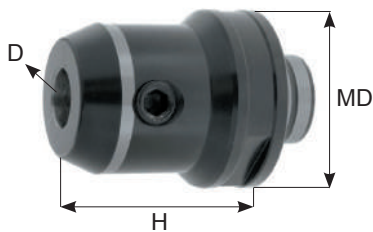
Modular collet chuck adapters


**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		77	
MD63.H86.ERC40	12	3 ÷ 30	63	86	
MD80.H90.ERC40		3 ÷ 30	80	90	

**Portafrese Weldon modulari sistema Varilock**

Modular end mill adapters

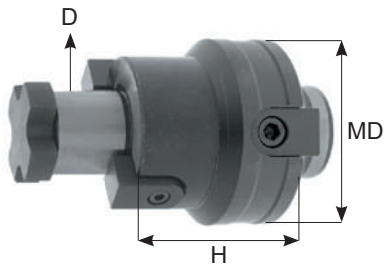

**MD50 / 63 / 80**

CODICE	FAM	MD	H	D	EUR		
MD50.H50.WE6	1	50	50	6			
MD50.H50.WE8				8			
MD50.H50.WE10				10			
MD50.H60.WE12			60	60	12		
MD50.H60.WE14					14		
MD50.H60.WE16					16		
MD50.H60.WE18					18		
MD50.H62.WE20			62	20			
MD50.H80.WE25			80	25			
MD63.H70.WE10			63	63	70	10	
MD63.H70.WE12		12					
MD63.H70.WE14		14					
MD63.H70.WE16		16					
MD63.H70.WE18		18					
MD63.H70.WE20		20					
MD63.H80.WE25		80			80	25	
MD63.H80.WE32						32	
MD63.H90.WE40						40	
MD80.H70.WE16						80	80
MD80.H70.WE20		20					
MD80.H80.WE25	25						
MD80.H80.WE32	32						
MD80.H90.WE40	40						
MD80.H90.WE40	90	40					

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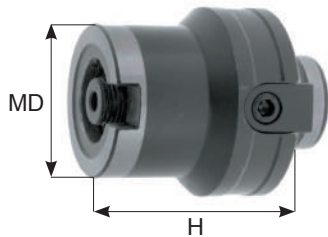
**Portafrese modulari sistema Varilock**  
Shell end mill holders Modular Adapters

**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		63	30	22	22	
MD63.H30.D27S				27	27	
MD63.H30.D32S				32	32	
MD63.H30.D40S				40	40	
MD80.H30.D27S		80	30	27	27	
MD80.H30.D32S				32	32	
MD80.H30.D40S				40	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	

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

TOOLHOLDERS  
DIN/69871 - DUAL DRIVE -  
ANSI B 5.50

**7**







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

TOOLHOLDERS DIN/69871 - DUAL DRIVE - ANSI B 5.50



**MANDRINI A CAMBIO RAPIDO**  
QUICK CHANGE TOOLHOLDERS

**7A**



**MANDRINI A CAMBIO RAPIDO PASSAGGIO DEL REFRIGERANTE**  
COOLANT QUICK CHANGE TOOLHOLDERS



**SYNCRO PORTAPINZE**  
SYNCHROFER ER TOOLHOLDERS

**7B**



**SYNCRO CAMBIO RAPIDO**  
QUICK CHANGE SYNCHROFER TOOLHOLDERS



**MANDRINI RIGIDI**  
RIGID TOOLHOLDERS

**7C**



**MANDRINI RIGIDI PASSAGGIO DEL REFRIGERANTE**  
COOLANT RIGID TOOLHOLDERS



**MANDRINI IDRAULICI**  
HYDRAULIC CHUCKS

**7D**



**MANDRINI PORTAPINZE "TG"**  
"TG" ER TOOLHOLDERS

**7E**



**MANDRINI PORTAPINZE**  
ER TOOLHOLDERS

**7F**



**MANDRINI PORTAFRESE WELDON**  
WELDON END MILL HOLDERS

**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**  
DUAL DRIVE ER TOOLHOLDERS

**DOPPIO  
CONTATTO**

**7K**

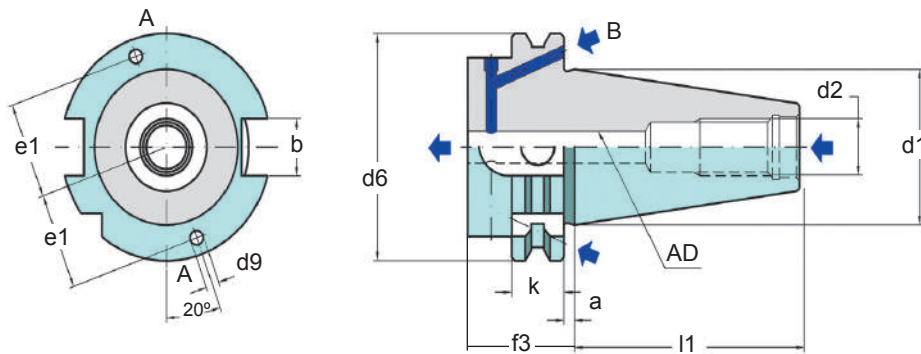
# MANDRINI ATTACCO DIN/69871 - DOPPIO CONTATTO - ANSI B 5.50

TOOLHOLDERS DIN/69871 - DUAL DRIVE - ANSI B 5.50

	<b>MANDRINI PORTAFRESE WELDON DOPPIO CONTATTO</b> DUAL DRIVE WELDON END MILL HOLDERS	<b>DOPPIO CONTATTO</b>	
	<b>MANDRINO PORTAFRESE FISSO</b> DUAL DRIVE SHELL END MILL HOLDERS	<b>DOPPIO CONTATTO</b>	<b>7L</b>
	<b>MANDRINI A DOPPIO CONTATTO A CALETTAMENTO</b> DUAL DRIVE SHRINK FIT TOOLHOLDERS	<b>DOPPIO CONTATTO</b>	
	<b>MANDRINI PORTAPUNTE</b> DRILL CHUCKS		<b>7M</b>
	<b>MANDRINI PORTAALESATORI FLOTTANTI</b> FLOATING REAMER HOLDERS		<b>7N</b>
	<b>MANDRINI PORTAPINZE EOC</b> EOC ER TOOLHOLDERS		<b>7O</b>
	<b>MANDRINI FORTE SERRAGGIO</b> MILLING CHUCKS		
	<b>MANDRINI RIDUZIONI CONO MORSE</b> MORSE TAPPER ADAPTERS		<b>7P</b>
	<b>MANDRINI RIDUZIONI HSK / PCS</b> REDUCING ADAPTERS HSK / PCS		<b>7Q</b>
	<b>MANDRINI PER FRESE CON ATTACCO FILETTATO CON PASSAGGIO DEL REFRIGERANTE</b> COOLANT SCREW END MILL CHUCKS		<b>7R</b>
	<b>MANDRINI PORTAFRESE FISSO ANTIVIBRAZIONE</b> ANTIVIBRATORY SHELL MILL HOLDERS		<b>7S</b>
	<b>MANDRINI A DISTRIBUZIONE DEL REFRIGERANTE</b> ER OIL HOLE HOLDERS COLLET CHUCKS		<b>7T</b>
	<b>BARRE DI CONTROLLO / BARRE TENERE</b> TEST ARBOR / BLANK BARS		<b>7U</b>
	<b>MANDRINI VARILOCK</b> VARILOCK TOOLHOLDERS		<b>7V</b>
	<b>ADATTATORI VARILOCK</b> VARILOCK ADAPTERS		

**Tabella tecnica**

Data sheet



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 thru

	<b>SENZA PASSAGGIO DEL REFRIGERANTE</b> WITHOUT COOLANT THRU	A
	<b>PASSAGGIO DEL REFRIGERANTE CENTRALE</b> COOLANT FROM CENTRE	AD
	<b>PASSAGGIO DEL REFRIGERANTE DALLA FLANGIA</b> COOLANT FROM FLANGE	B
	<b>PASSAGGIO DEL REFRIGERANTE CENTRALE O DALLA FLANGIA</b> 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.

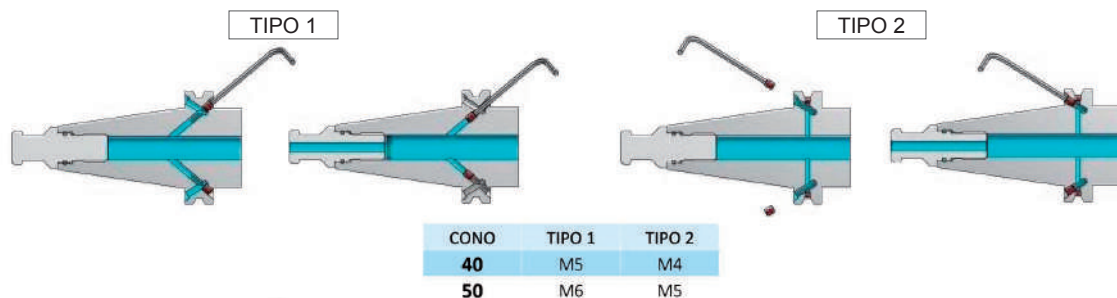
Nel sistema "TIPO 1" la regolazione avviene chiudendo il grano.

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

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

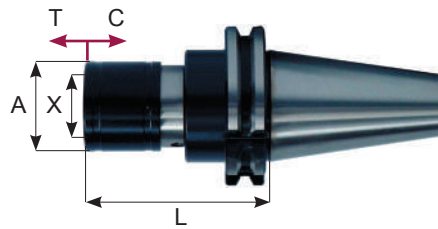
"TIPO 1" system works closing the screw.

"TIPO 2" system works removing the screw.



**Mandrini con compressione e trazione**

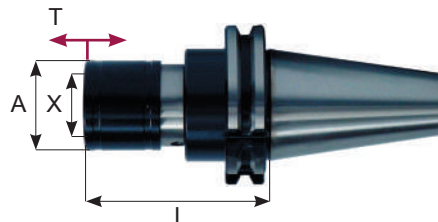
Tension and compression tapholders


**TC30 / 40 / 50**

CODICE	CAP	X	A	L	T	C	EUR
TC40-THTC0-L72	M1 ÷ M10	13	26	72	6.5	6.5	
TC50-THTC0-L72				72			
TC30-THTC1-L58	M3 ÷ M12	19	36	58	7.5	7.5	
TC40-THTC1-L59				59			
TC50-THTC1-L59	M8 ÷ M20	31	53	98	12.5	12.5	
TC40-THTC2-L98				83			
TC50-THTC2-L83	M14 ÷ M33	48	78	149	20	20	
TC40-THTC3-L149				138			
TC50-THTC3-L138	M22 ÷ M48	60	96	165	22.5	22.5	
TC40-THTC4-L165				175			
TC50-THTC4-L175							

**Mandrini con solo trazione**

Tension tapholders


**TC30 / 40 / 50**

CODICE	CAP	X	A	L	T	C	EUR
TC40-THT0-L94	M1 ÷ M10	13	26	72	6.5	0	
TC50-THT0-L104				72			
TC30-THT1-L58	M3 ÷ M12	19	36	58	7.5	0	
TC40-THT1-L59				59			
TC50-THT1-L59	M8 ÷ M20	31	53	98	12.5	0	
TC40-THT2-L98				83			
TC50-THT2-L83	M14 ÷ M33	48	78	149	20	0	
TC40-THT3-L149				138			
TC50-THT3-L138	M22 ÷ M48	60	96	165	22.5	0	
TC40-THT4-L165				175			
TC50-THT4-L175							

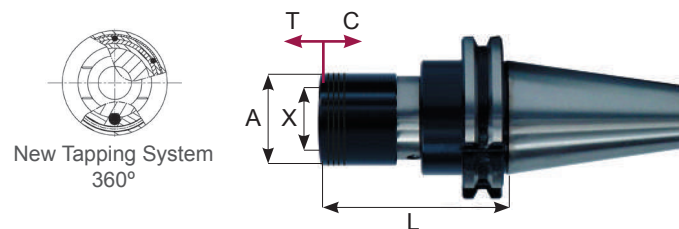
**Mandrini con compressione e trazione con passaggio del refrigerante**  
Coolant tension and compression tapholders



**TC30 / 40 / 50**

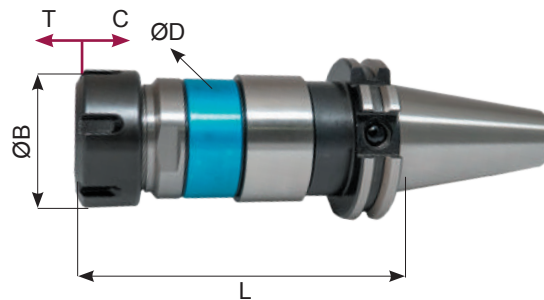
CODICE	CAP	X	A	L	T	C	EUR
TC40-THTC1-L101C	M3 ÷ M12	19	40	101	7	3	
TC50-THTC1-L101C				101			
TC40-THTC2-L137C	M8 ÷ M20	31	56	137	10	5	
TC50-THTC2-L137C				137			
TC40-THTC3-L242C	M14 ÷ M33	48	75	242	18	13	
TC50-THTC3-L202C				202			

**Mandrini con compressione e trazione DIN/69871 - GC**  
Tension and compression tapholders DIN/69871 - GC

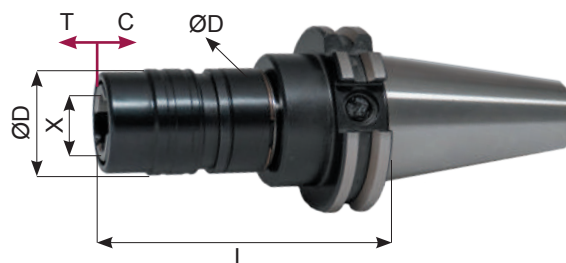


**TC30 / 40 / 50**

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						

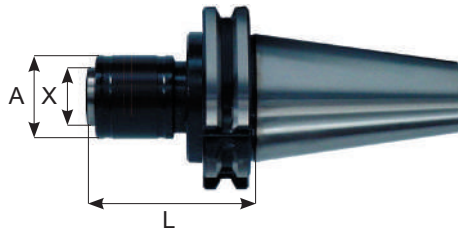
**SYER - Mandrini Portapinzine a micro-compensazione assiale in compressione e trazione**  
 SYER - Synchrofer ER tapholders

**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 - Mandrini Portabussole a micro-compensazione assiale in compressione e trazione**  
 SY - Synchrofer tapholders

**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	

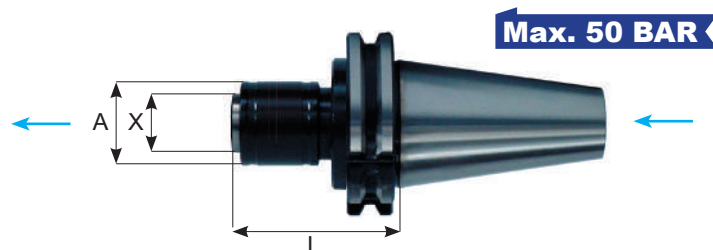
**Mandrini rigidi**  
Rigid tapholders



**TC40 / 50**

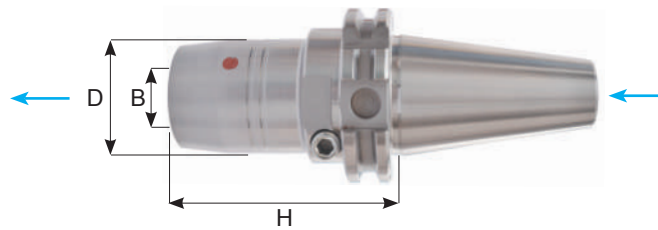
CODICE	CAP	X	A	L	EUR
TC40-TLR1-L56	M3 ÷ M12	19	32	56	
TC50-TLR1-L56				56	
TC40-TLR2-L77	M8 ÷ M20	31	50	77	
TC50-TLR2-L77				77	
TC40-TLR3-L119	M14 ÷ M33	48	72	119	
TC50-TLR3-L103				103	
TC50-TLR4-L141	M22 ÷ M48	60	95	141	

**Mandrini rigidi con passaggio del refrigerante**  
Coolant rigid tapholders



**TC40 / 50**

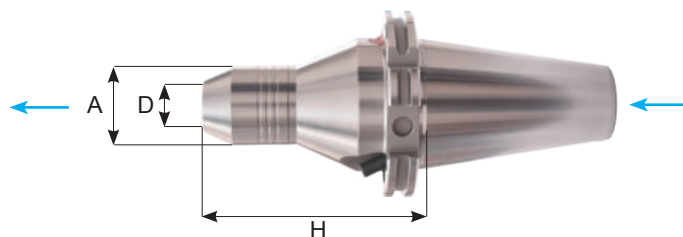
CODICE	CAP	X	A	L	EUR
TC40-TLR1-L73C	M3 ÷ M12	19	32	73	
TC50-TLR1-L73C				73	
TC40-TLR2-L89C	M8 ÷ M20	31	50	89	
TC50-TLR2-L89C				89	
TC40-TLR3-L128C	M14 ÷ M33	48	72	128	
TC50-TLR3-L118C				118	

**Mandrini idraulici con passaggio del refrigerante**  
 Coolant hydraulic chucks

**TCB40 / 50**

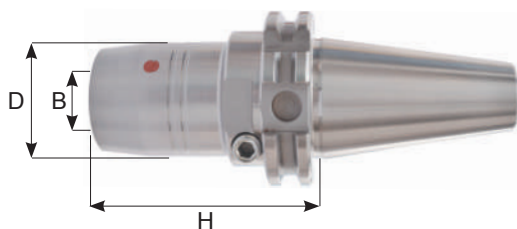
CODICE	FAM	B	FORMA	H	D	EUR		
TCB40.H80.5.HD.6	5	6	AD+B	80.5	26			
TCB40.H110.HD6		6		110	26			
TCB40.H80.5.HD.8		8		80.5	28			
TCB40.H110.5.HD.8		8		110	28			
TCB40.H80.5.HD.10		10		80.5	30			
TCB40.H110.HD.10		10		110	30			
TCB40.H80.5.HD.12		12		80.5	32			
TCB40.H110.HD.12		12		110	32			
TCB40.H80.5.HD.14		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**  
 Coolant hydraulic chucks


**TCB50 TOOL&CUTTER**

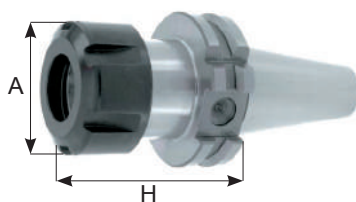
CODICE	FAM	D	FORMA	H	A	EUR
TCB50.H110.HD.6TC	5	6	AD+B	110	32	
TCB50.H110.HD.8TC		8			33	
TCB50.H110.HD.10TC		10			35	
TCB50.H110.HD.12TC		12			36	
TCB50.H110.HD.14TC		14			38	
TCB50.H110.HD.16TC		16			39	
TCB50.H110.HD.18TC		18			41	
TCB50.H110.HD.20TC		20			42	
TCB50.H110.HD.25TC		25			47	
TCB50.H110.HD.32TC		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 portapinze TG**

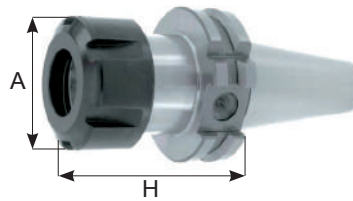
ER toolholders TG


**CAT40**

<b>CODICE</b>	<b>FAM</b>	<b>FORMA</b>	<b>H</b>	<b>A</b>	<b>EUR</b>
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	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	

**Portapinzine con ghiera STANDARD**

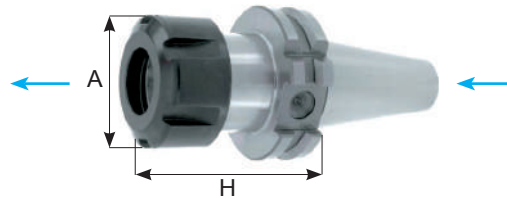
Collet chucks STANDARD nut


**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		1 ÷ 14			63	34	
TC30.H63.ERC25		1 ÷ 20			63	42	
TC30.H100.ERC25					100		
TC30.H63.ERC32		2 ÷ 22			63	50	
TC30.H100.ERC32					100		

**Portapinzine con ghiera STANDARD con passaggio del refrigerante**

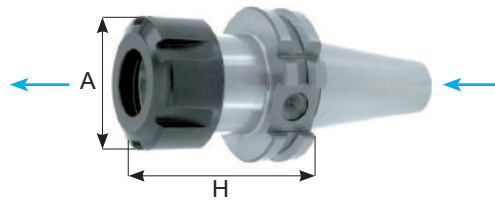
Coolant ER toolholders with standard nut


**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					1 ÷ 14		70	34	
TCB40.H100.ERC20							100		
TCB40.H130.ERC20							130		
TCB40.H160.ERC20		160							
TCB40.H70.ERC25		1 ÷ 20			70	42			
TCB40.H100.ERC25					100				
TCB40.H130.ERC25					130				
TCB40.H160.ERC25					160				
TCB40.H200.ERC25		2 ÷ 22			200	50			
TCB40.H70.ERC32					70				
TCB40.H100.ERC32					100				
TCB40.H130.ERC32					130				
TCB40.H160.ERC32		3 ÷ 30			160	63			
TCB40.H200.ERC32					200				
TCB40.H70.ERC40					70		78		
TCB40.H100.ERC40					100				
TCB40.H130.ERC40		130							
TCB40.H160.ERC40		160							
TCB40.H200.ERC40		6 ÷ 34			200	AD	85		
TCB40.H85.ERC50					85				

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

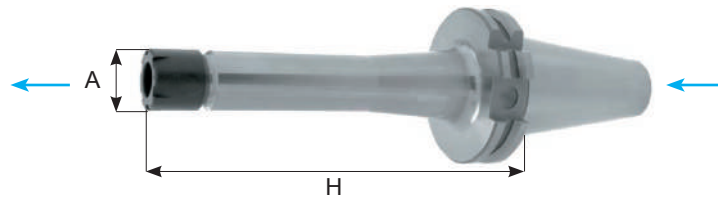
**Portapinze con ghiera STANDARD con passaggio del refrigerante**  
 Coolant ER toolholders with standard nut


**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		

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

**Portapinze con ghiera MINI con passaggio del refrigerante**  
 Coolant ER toolholders with mini nut

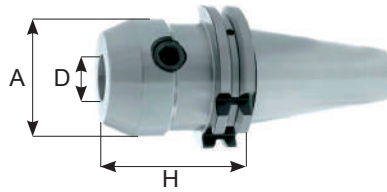

**TCB40 / 50**

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			28		
TCB40.H100.ERC20M		100					
TCB40.H130.ERC20M		130					
TCB40.H160.ERC20M		160			35		
TCB40.H100.ERC25M		100					
TCB40.H160.ERC25M		160					
TCB40.H200.ERC25M		200			22		
TCB50.H100.ERC16M		100					
TCB50.H130.ERC16M		130					
TCB50.H160.ERC16M		160			28		
TCB50.H200.ERC16M		200					
TCB50.H100.ERC20M		100					
TCB50.H130.ERC20M		130			35		
TCB50.H160.ERC20M		160					
TCB50.H200.ERC20M		200					
TCB50.H100.ERC25M		100			1 ÷ 10		
TCB50.H130.ERC25M		130					
TCB50.H160.ERC25M		160					
TCB50.H200.ERC25M		200			1 ÷ 14		
TCB50.H100.ERC25M		100					
TCB50.H130.ERC25M		130					
TCB50.H160.ERC25M		160			1 ÷ 20		
TCB50.H200.ERC25M		200					
TCB50.H100.ERC25M		100					
TCB50.H130.ERC25M	130	1 ÷ 7					
TCB50.H160.ERC25M	160						
TCB50.H200.ERC25M	200						

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

**Portafrese Weldon DIN/1835-B**

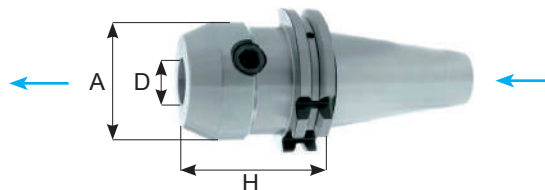
End mill holders for DIN/1835-B


**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**

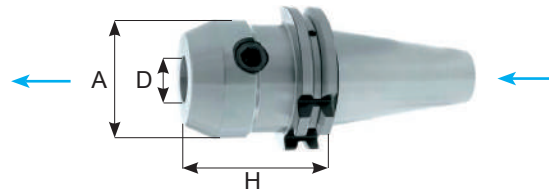
Coolant end mill holders for DIN/1835-B


**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					

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

**Portafrese Weldon DIN/1835-B con passaggio del refrigerante**  
 Coolant end mill holders for DIN/1835-B

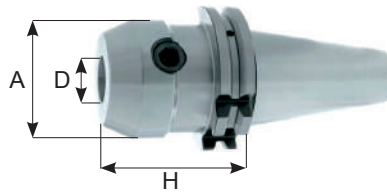

**TCB40**

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	

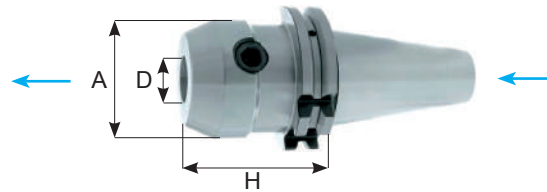


**Portafrese Weldon DIN/1835-B**

End mill holders for DIN/1835-B


**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
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	
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				

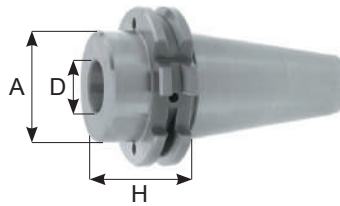
**Portafrese Weldon DIN/1835-B con passaggio del refrigerante**  
 Coolant end mill holders DIN/1835-B

**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		25		250	65	
TCB50.H80.WE25				80		
TCB50.H100.WE25				100		
TCB50.H130.WE25				130		
TCB50.H160.WE25				160		
TCB50.H200.WE25		32		200	72	
TCB50.H250.WE25				250		
TCB50.H100.WE32				100		
TCB50.H130.WE32				130		
TCB50.H160.WE32				160		
TCB50.H200.WE32		40		200	80	
TCB50.H250.WE32				250		
TCB50.H112.WE40				112		
TCB50.H130.WE40				130		
TCB50.H160.WE40				160		
TCB50.H200.WE40		50		200	100	
TCB50.H130.WE50				130		

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

**Portafrese Weldon extra corto DIN/1835-B**

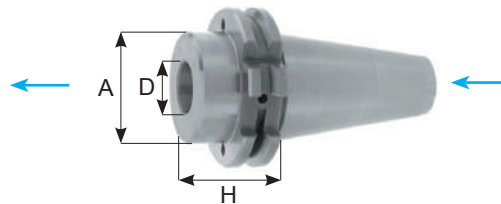
Short end mill holders DIN/1835-B


**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**

Short coolant end mill holders DIN/1835-B

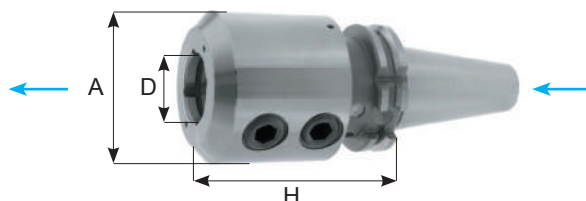

**TCB40 / 50**

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	

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

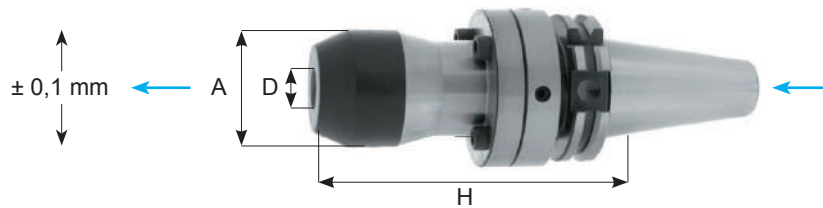
**Portafrese Weldon con passaggio del refrigerante**

Coolant end mill holders


**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			

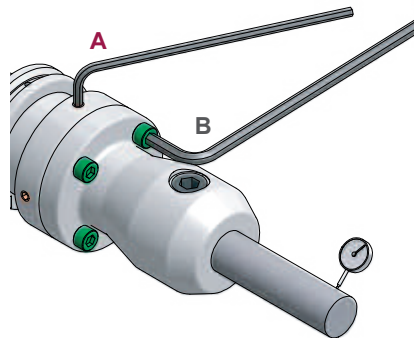
**Portafrese Weldon con regolazione radiale e passaggio del refrigerante**  
Radial adjustable coolant end mill holders



**TCB40 / 50**

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	

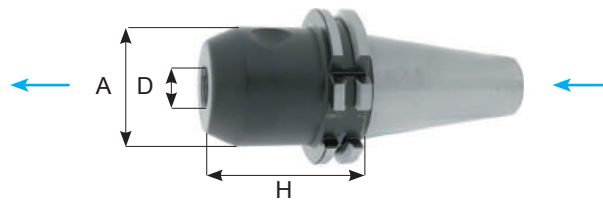
**Centratura regolabile 0,1mm**  
Adjustable runout 0,1mm



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.

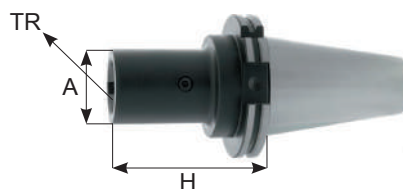
**Portafrese Weldon Whistle-Notch con passaggio del refrigerante**  
Coolant Whistle-Notch end mill holders



**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			

**Mandrini riduzioni per DIN/6327**  
Reduction spindles DIN/6327

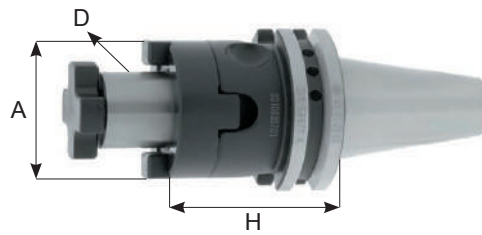


**TC40 / 50**

CODICE	FAM	TR	H	A	EUR
TC40.H80.TR20	1	20	80	32	
TC50.H100.TR28		28	100	40	
TC50.H100.TR36		36	100	50	
TC50.H105.TR48		48	105	67	

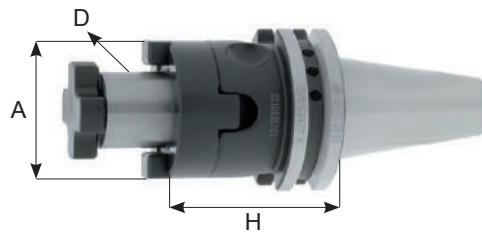
**Portafrese combinato**

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

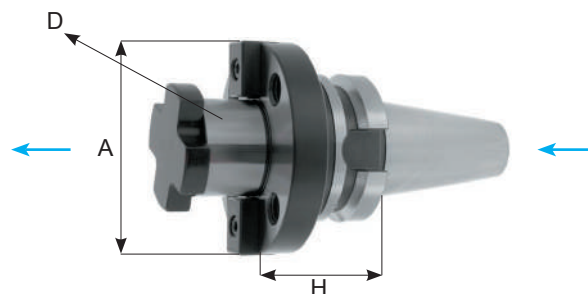


**TC50**

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**

Coolant combi shell end mill holders

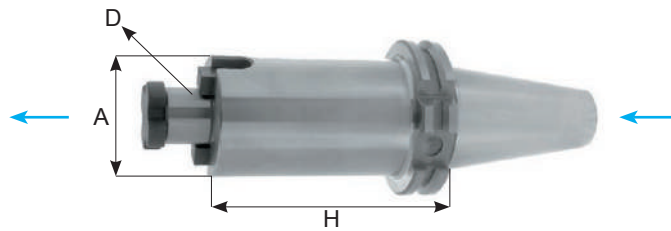


**TCB40 / 50**

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H60.D40FM	12	40	AD+B	50	88	
TCB50.H70.D60FM		60		70	129	

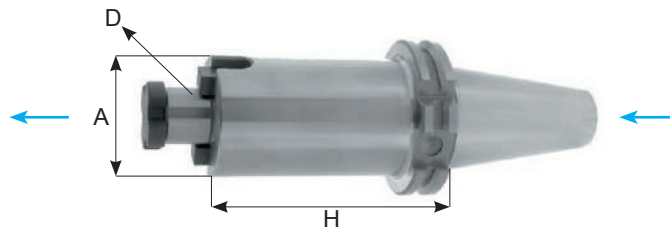


**Portafrese fisso con passaggio del refrigerante**  
Coolant shell end mill holders

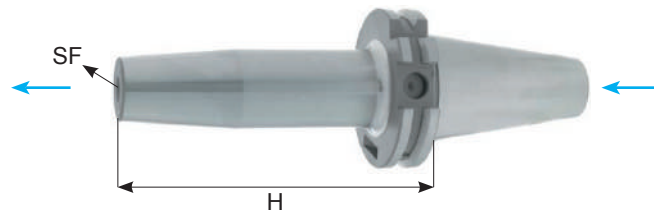


**TCB40**

CODICE	FAM	D	FORMA	H	EUR
TCB40.H35.D16S	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.D22S		22		35	
TCB40.H45.D22S				45	
TCB40.H100.D22S				100	
TCB40.H130.D22S				130	
TCB40.H160.D22S				160	
TCB40.H200.D22S				200	
TCB40.H35.D27S		27		35	
TCB40.H50.D27S				50	
TCB40.H100.D27S				100	
TCB40.H130.D27S				130	
TCB40.H160.D27S				160	
TCB40.H200.D27S				200	
TCB40.H55.D32S		32		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**  
 Coolant shell end mill holders

**TCB50**

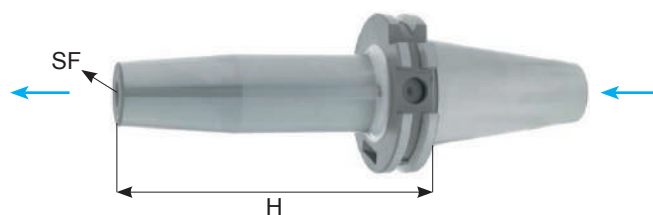
CODICE	FAM	D	FORMA	H	EUR
TCB50.H35.D16SP	1-11	16	AD+B	35	
TCB50.H45.D16S				45	
TCB50.H100.D16S				100	
TCB50.H130.D16S				130	
TCB50.H160.D16S				160	
TCB50.H200.D16S				200	
TCB50.H250.D16S				250	
TCB50.H300.D16S				300	
TCB50.H350.D16S				350	
TCB50.H35.D22SP				22	35
TCB50.H45.D22S		45			
TCB50.H100.D22S		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.D32S				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.D40S	40	55			
TCB50.H75.D40S		75			
TCB50.H100.D40S		100			
TCB50.H130.D40S		130			
TCB50.H160.D40S		160			
TCB50.H200.D40S		200			

**Mandri a calettamento con passaggio del refrigerante (4,5°)**  
 Coolant shrink fit holders (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		

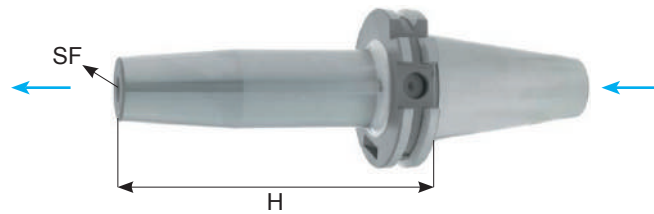
**Mandrini a calettamento con passaggio del refrigerante (4,5°)**

Coolant shrink fit holders (4,5°)


**TCB50**
**BILANCIATO G2,5 RPM25000**  
 BILANCED G2,5 RPM25000

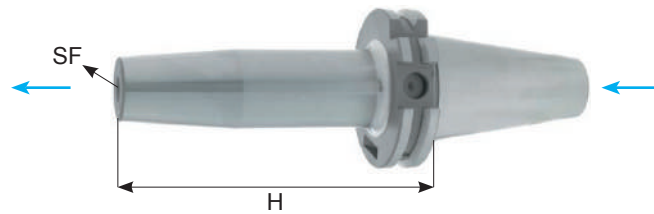
CODICE	FAM	SF	FORMA	H	EUR
TCB50.H80.SF14	5	SF14	AD+B	80	
TCB50.H120.SF14		SF14		120	
TCB50.H160.SF14		SF14		160	
TCB50.H80.SF16		SF16		80	
TCB50.H120.SF16		SF16		120	
TCB50.H160.SF16		SF16		160	
TCB50.H80.SF18		SF18		80	
TCB50.H120.SF18		SF18		120	
TCB50.H160.SF18		SF18		160	
TCB50.H80.SF20		SF20		80	
TCB50.H120.SF20		SF20		120	
TCB50.H160.SF20		SF20		160	
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 slim (3°)**  
 Slim coolant shrink fit holders (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 slim (3°)**  
 Slim coolant shrink fit holders (3°)

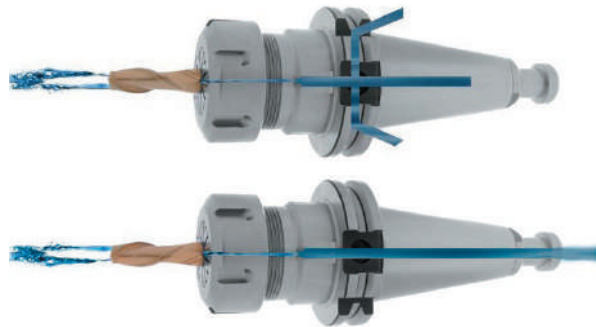

**TCB50**
**BILANCIATO G2,5 RPM25000**  
 BILANCED G2,5 RPM25000

<b>CODICE</b>	<b>FAM</b>	<b>SF</b>	<b>FORMA</b>	<b>H</b>	<b>EUR</b>
TCB50.H80.SF3	5	SF3	AD+B	80	
TCB50.H120.SF3		SF3		120	
TCB50.H80.SF4		SF4		80	
TCB50.H120.SF4		SF4		120	
TCB50.H80.SF5		SF5		80	
TCB50.H120.SF5		SF5		120	
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**  
Dual drive spindle

**Forma**  
**AD+B = TCB**

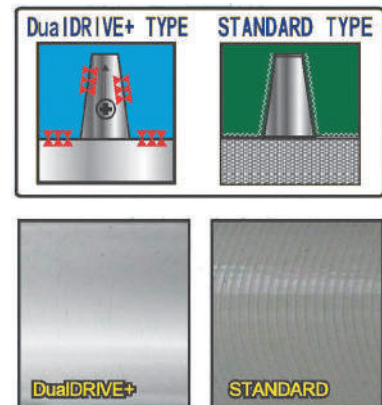
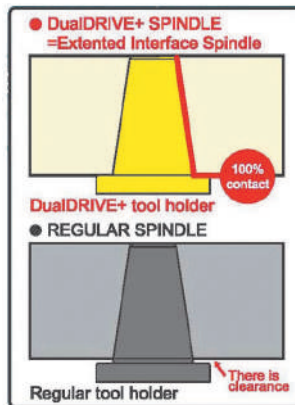
**Forma**  
**AD = TC**



**DOPPIO  
CONTATTO**

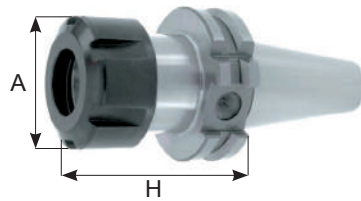


CONO TAPER	FORMA FORM
DCTCB40	AD
DCTCB50	AD



**Portapinze ER con ghiere STANDARD Doppio Contatto**

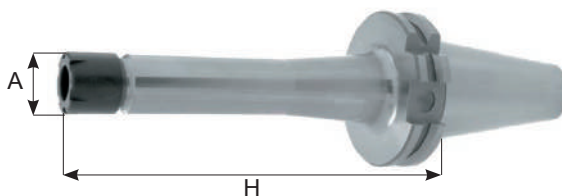
Dual drive er tapholders standard nut


**DOPPIO  
 CONTATTO**
**DTCB40 / 50**

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
DTCB40.H70.ERC16	1	1 ÷ 10	12.000	AD+B	70	28	
DTCB40.H100.ERC16		100					
DTCB40.H70.ERC20		1 ÷ 14			70	34	
DTCB40.H100.ERC20		100					
DTCB40.H70.ERC25		1 ÷ 20			70	42	
DTCB40.H100.ERC25		100					
DTCB40.H70.ERC32		2 ÷ 22			70	50	
DTCB40.H100.ERC32		100					
DTCB40.H70.ERC40		3 ÷ 30			70	63	
DTCB40.H100.ERC40		100					
DTCB50.H80.ERC16		1 ÷ 10			80	28	
DTCB50.H100.ERC16		100					
DTCB50.H80.ERC20		1 ÷ 14			80	34	
DTCB50.H100.ERC20		100					
DTCB50.H80.ERC25		1 ÷ 20			80	42	
DTCB50.H100.ERC25		100					
DTCB50.H80.ERC32		2 ÷ 22			80	50	
DTCB50.H130.ERC32					130		
DTCB50.H160.ERC32					160		
DTCB50.H200.ERC32					200		
DTCB50.H80.ERC40	3 ÷ 30	80	63				
DTCB50.H100.ERC40		100					
DTCB50.H130.ERC40		130					

**Portapinze ER con ghiere MINI Doppio Contatto**

Dual drive er tapholders mini nut

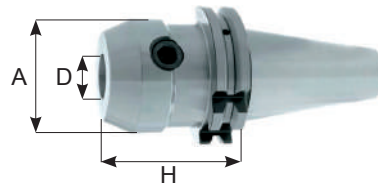

**DOPPIO  
 CONTATTO**
**DTCB40 / 50**

CODICE	FAM	CAP	RPM	FORMA	H	A	EUR
DTCB40.H100.ERC11M	1	1 ÷ 7	12.000	AD+B	100	16	
DTCB40.H100.ERC16M		1 ÷ 10				22	
DTCB40.H100.ERC20M		1 ÷ 14				28	
DTCB50.H100.ERC11M		1 ÷ 7	12.000	AD	100	16	
DTCB50.H100.ERC16M		1 ÷ 10				22	
DTCB50.H100.ERC20M		1 ÷ 14				28	



**Portafrese Weldon DIN/1835-B Doppio Contatto**

Dual drive end mill holders DIN 1835-B



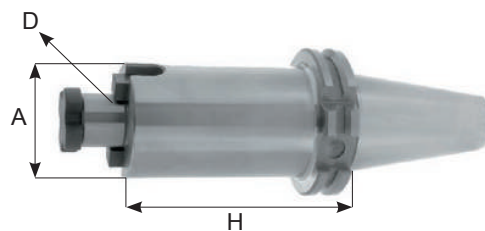
**DOPPIO  
CONTATTO**

**DTCB40 / DTCB50**

CODICE	FAM	D	FORMA	H	A	EUR
DTCB40.H50.WE6	1	6	AD	50	25	
DTCB40.H50.WE8		8		50	28	
DTCB40.H50.WE10		10		50	35	
DTCB40.H50.WE12		12		50	42	
DTCB40.H63.WE16		16		63	45	
DTCB40.H63.WE20		20		63	52	
DTCB40.H100.WE25		25		100	65	
DTCB40.H100.WE32		32		100	72	
DTCB50.H63.WE6		6		63	25	
DTCB50.H63.WE8		8		63	28	
DTCB50.H63.WE10		10		63	35	
DTCB50.H63.WE12		12		63	42	
DTCB50.H63.WE16		16		63	48	
DTCB50.H63.WE20		20		63	52	
DTCB50.H80.WE25		25		80	65	
DTCB50.H100.WE32		32		100	72	
DTCB50.H112.WE40		40		112	90	
DTCB50.H130.WE50		50		130	100	

**Portafrese fisso DIN/69871 Doppio Contatto**

Dual drive shell end mill holders

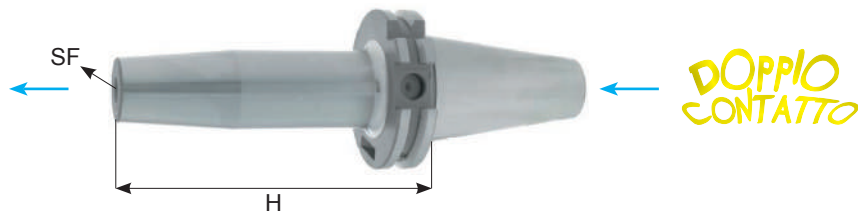


**DOPPIO  
CONTATTO**

**DTCB40 / 50**

CODICE	FAM	D	FORMA	H	A	EUR
DTCB40.H35.D16S	1	16	AD	35	38	
DTCB40.H35.D22S		22		35	48	
DTCB40.H60.D27S		27		60	58	
DTCB40.H60.D32S		32		60	78	
DTCB40.H60.D40S		40		60	88	
DTCB50.H35.D16S		16		35	38	
DTCB50.H35.D22S		22		35	48	
DTCB50.H35.D27S		27		35	58	
DTCB50.H35.D32S		32		35	78	
DTCB50.H50.D40S		40		50	88	

**Mandrina Doppio Contatto a Calettamento Termico (4,5°) Doppio Contatto**  
Dual drive shrink fit toolholder (4,5°)



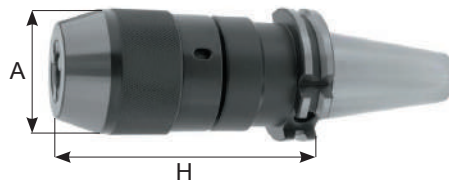
**DTCB40 / 50**

**BILANCIATO G2,5 RPM25000**  
BILANCED G2,5 RPM25000

CODICE	FAM	SF	FORMA	H	EUR
DTCB40.H80.SF3	1	SF3	AD+B	80	
DTCB40.H80.SF4		SF4		80	
DTCB40.H80.SF5		SF5		80	
DTCB40.H80.SF6		SF6		80	
DTCB40.H80.SF8		SF8		80	
DTCB40.H80.SF10		SF10		80	
DTCB40.H80.SF12		SF12		80	
DTCB40.H80.SF14		SF14		80	
DTCB40.H80.SF16		SF16		80	
DTCB40.H80.SF18		SF18		80	
DTCB40.H80.SF20		SF20		80	
DTCB40.H100.SF25		SF25		100	
DTCB40.H100.SF32		SF32		100	
DTCB50.H80.SF3		SF3		80	
DTCB50.H80.SF4		SF4		80	
DTCB50.H80.SF5		SF5		80	
DTCB50.H80.SF6		SF6		80	
DTCB50.H80.SF8		SF8		80	
DTCB50.H80.SF10		SF10		80	
DTCB50.H80.SF12		SF12		80	
DTCB50.H80.SF14		SF14		80	
DTCB50.H80.SF16		SF16		80	
DTCB50.H80.SF18		SF18		80	
DTCB50.H80.SF20		SF20		80	
DTCB50.H100.SF25		SF25		100	
DTCB50.H100.SF32		SF32		100	

**Mandrini portapunte con chiavi a gancio**

Drill chuck with hook wrench



**TC30 / 40 / 50**

CODICE	FAM	CAP	H	A	EUR
TC30.H80.DCK8	1	0.5 ÷ 8	80	36	
TC40.H75.DCK8			75	36	
TC40.H100.DCK13		1 ÷ 13	100	50	
TC40.H115.DCK16		2.5 ÷ 16	115	58	
TC50.H88.DCK13		1 ÷ 13	88	50	
TC50.H90.DCK16		2.5 ÷ 16	90	58	

**Portapunte con chiavi a gancio**

Drill chuck with hook wrench heads



**DCK**

CODICE	FAM	CAP	EUR
DCK8.MT2S	1	0.5 ÷ 8	
DCK13.MT3S		1 ÷ 13	
DCK16.MT3S		2.5 ÷ 16	

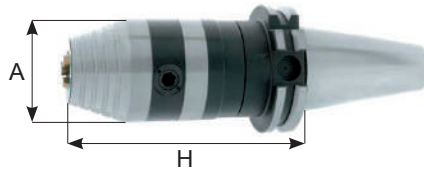
**Chiavi a settore per mandrini portapunte**

Hook Wrenches  
for drill chucks

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



**Mandrini portapunte a forte serraggio con chiavi esagonali**  
Exagonal key look drill chucks titanium jaws



**TC40 / 50**

CODICE	FAM	CAP	FORMA	H	A	EUR
TC40.H115.CP13S	1	1 ÷ 13	AD	115	50	
TC40.H120.CP16S		2.5 ÷ 16		120		
TC50.H103.CP13S		1 ÷ 13		103		
TC50.H108.CP16S		2.5 ÷ 16		108		

**Portapunte a forte serraggio**  
Drill chuck heads



**CP**

CODICE	FAM	CAP	EUR
CP13.MT3	1	1 ÷ 13	
CP16.MT3		2.5 ÷ 16	

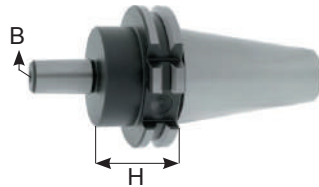
**Chiavi esagonali per mandrini portapunte autoserranti**  
Wrenches for drill chucks

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



**Attacco per Mandrini autoserranti**

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	

**Mandrini autoserranti manuali con griffe in Acciaio**

Drill Chuck heads with Stainless Jaws

**DC**

CODICE	CAP	B
DC13.B16	1 ÷ 13	16
DC16.B16	2.5 ÷ 16	16
DC16.B18		18



**Mandrini autoserranti manuali con griffe in Titanio**

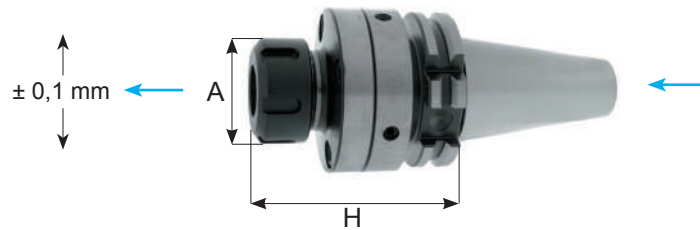
Drill Chuck heads with Titanium Coated Jaws

**DCK**

CODICE	CAP	B
DC8S.B12	0.5 ÷ 8	12
DC10S.B12	0.5 ÷ 10	
DC13S.B12	1 ÷ 13	
DC13S.B16	1 ÷ 13	16
DC16S.B16	2.5 ÷ 16	16
DC16S.B18		18



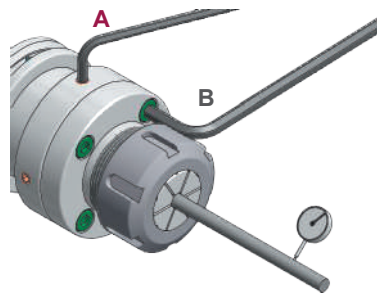
**Portapinze radiali regolabili con passaggio del refrigerante**  
Coolant radial adjustable collet chucks



**TCB40 / 50**

CODICE	FAM	CAP	PINZA	FORMA	FLOT	H	A	EUR
TCB40.ERC16.L93RG	1	1 ÷ 10	ER16	AD	$\pm 1 \text{ mm}$	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 0,1mm**  
*Adjustable runout 0,1mm*



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

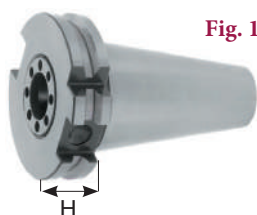


Fig. 1

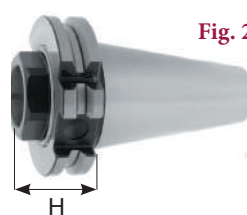
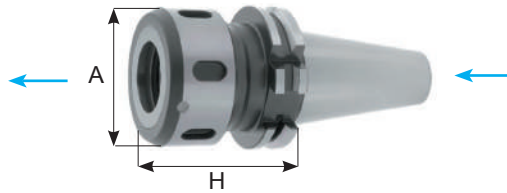


Fig. 2

**TC40 / 50**

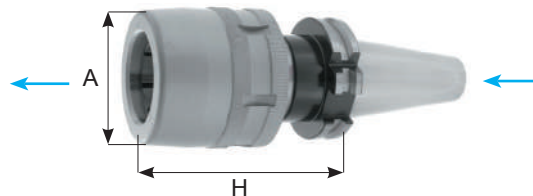
CODICE	FAM	CAP	RPM	FORMA	H	EUR
TC40.H21.ERC25A Fig. 1	1	1 ÷ 20	12.000	AD	21	
TC40.H21.ERC32A Fig. 1		2 ÷ 22		AD	21	
TC50.H21.ERC32A Fig. 1		2 ÷ 22		AD	21	
TCB40.H40.ERC32A Fig. 2		2 ÷ 22		AD+B	40	
TCB50.H40.ERC32A Fig. 2		2 ÷ 22		AD+B	40	

**Portapinze per pinze EOC DIN/6388 B con passaggio del refrigerante**  
 Coolant collet chucks EOC DIN/6388 B


**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**  
 Coolant milling chucks


**TCB40 / 50**

CODICE	FAM	CAP	FORMA	H	A	EUR
TCB40.H98.FS20	1	3 ÷ 16	AD	98	56.5	
TCB40.H100.FS32		3 ÷ 25		100	71	
TCB50.H98.FS20		3 ÷ 16		98	56.5	
TCB50.H103.FS32		3 ÷ 25		103	71	

**Kit mandrino portapinze a forte serraggio**  
 Kit ER tooholder

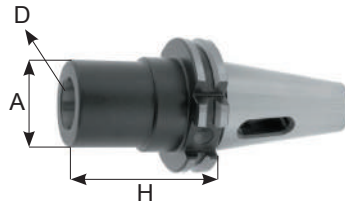
CODICE	FAM	CAPACITÀ	EUR
BX.TC40.FS20	1	Pinza 3SR20	
BX.TC50.FS20		6 . 8 . 10 . 12 . 16	
BX.TC40.FS32		Pinza 3SR32	
BX.TC50.FS32		6 . 8 . 10 . 12 . 16 . 20 . 25	





**Mandrini riduttori con morse DIN/228-B per Punta**

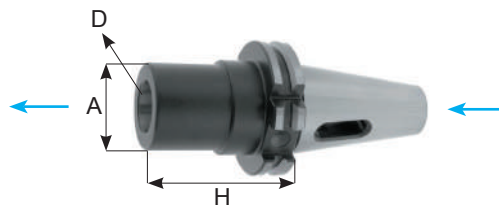
Morse taper DIN/228-B for Drills


**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	

**Mandrini riduttori con morse DIN/228-B per Punta con passaggio refrigerante**

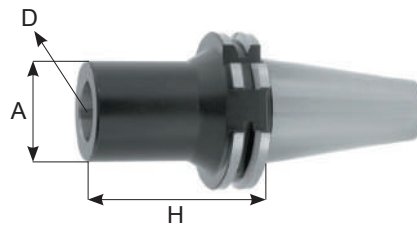
Coolant morse taper DIN/228-B for Drills


**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	

**Mandrini riduttori cono morse DIN/228-A per Frese**

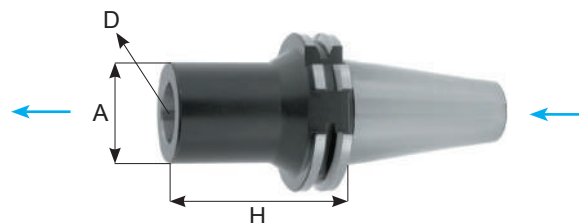
Morse taper DIN/228-A for Threaded Mills


**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		CM1		50	25	
TC40.H50.CM2FV		CM2		50	32	
TC40.H70.CM3FV		CM3		70	40	
TC40.H95.CM4FV		CM4		95	48	
TC50.H45.CM1FV		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	

**Mandrini riduttori cono morse DIN/228-A per Frese con passaggio refrigerante**

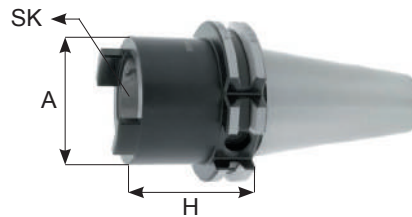
Coolant morse taper DIN/228-A for Threaded Mills


**TCB40 / 50**

CODICE	FAM	D	FORMA	H	A	EUR
TCB40.H70.CM3FV	1	CM3	AD+B	70	40	
TCB40.H95.CM4FV		CM4		95	48	
TCB50.H65.CM3FV		CM3		65	40	
TCB50.H95.CM4FV		CM4		95	48	
TCB50.H120.CM5FV		CM5		120	63	

**Mandrini riduttori ISO DIN/2080 - DIN/69871 - BT**

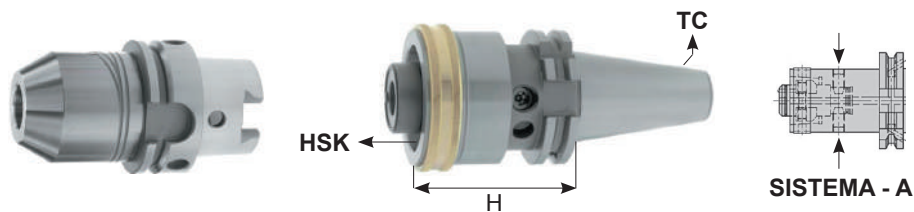
Reducing adaptors from TC to ISO DIN/2080 - DIN/69871 - BT


**TC40 / 50**

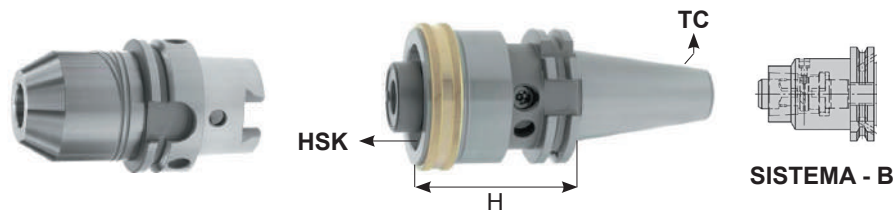
CODICE	FAM	ATTACCO	FORMA	H	A	EUR
TC40.H60.TB30	1	TC30 / BT30 / ISO30	AD	60	50	
TC40.H9 5.TB40		TC40 / BT40 / ISO40		95	68	
TC50.H70.TB40		TC40 / BT40 / ISO40		70	68	
TC50.H120.TB50		TC50 / BT50 / ISO50		120	100	

**Mandrini riduttori da 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	
TCB30.H55.HSK32AC	8	TC30	AD+B	HSK32-A/C	55		
TCB30.H60.HSK40AC				HSK40-A/C	60		
TCB40.H55.HSK25AC		TC40		HSK25-A/C	55		
TCB40.H55.HSK32AC				HSK32-A/C	55		
TCB40.H60.HSK40AC	HSK40-A/C			60			
TCB40.H65.HSK50AC	HSK50-A/C			65			
TCB40.H75.HSK63AC	1	TC40		HSK63-A/C	75		
TCB40.H105.HSK80AC				HSK80-A/C	105		
TCB40.H110.HSK100AC	8	TC40		HSK100-A/C	110		
TCB50.H55.HSK32AC				TC50	HSK32-A/C	55	
TCB50.H60.HSK40AC	HSK40-A/C	60					
TCB50.H65.HSK50AC	1	TC50			HSK50-A/C	65	
TCB50.H75.HSK63AC					HSK63-A/C	75	
TCB50.H120.HSK63AC	8	TC50			HSK63-A/C	120	
TCB50.H150.HSK63AC					HSK63-A/C	150	
TCB50.H85.HSK80AC	1	TC50			HSK80-A/C	85	
TCB50.H100.HSK100AC			HSK100-A/C		100		
TCB50.H140.HSK125AC	8	TC50	HSK125-A/C		140		
TCB50.H160.HSK160AC			HSK160-A/C		160		

**Mandrini riduttori da 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		TC50		HSK100-A/C/E/F	150	
TCB50B.H75.HSK32				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	

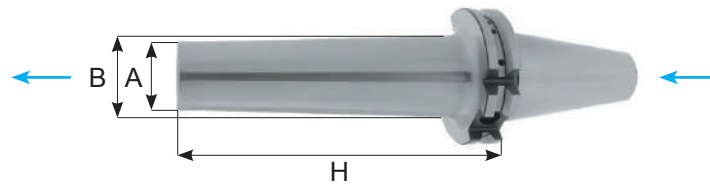
**Mandrini riduttori da DIN/69871 a PSC - ECA ISO 26623-1**

Adapters from DIN/69871 shank to PSC - ECA ISO 26623-1


**TCB-C4 / C5 / C6 / C8 / C10**

<b>CODICE</b>	<b>FAM</b>	<b>CONO</b>	<b>FORMA</b>	<b>RIDUTTORE</b>	<b>H</b>	<b>EUR</b>
TCB40.H30.C4	3	TC40	AD+B	PSC-C4	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	

**Mandri per frese con attacco filettato con passaggio del refrigerante**  
 Coolant screw in mill chucks


**TCB40**

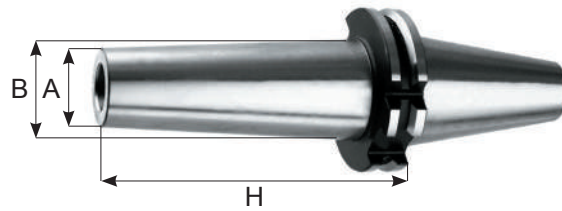
CODICE	FAM	M	FORMA	H	A	B	EUR
TCB40.H55.M8CPY	1-11	M8	AD+B	55	13	15	
TCB40.H75.M8CPY				75		23	
TCB40.H95.M8CPY				95		23	
TCB40.H115.M8CPY				115		25	
TCB40.H55.M10CPY		M10		55	18	20	
TCB40.H75.M10CPY				75		25	
TCB40.H95.M10CPY				95		28	
TCB40.H115.M10CPY				115		28	
TCB40.H145.M10CPY		M12		145	21	34	
TCB40.H55.M12CPY				55		24	
TCB40.H75.M12CPY				75		24	
TCB40.H95.M12CPY				95		31	
TCB40.H115.M12CPY		M16		115	29	31	
TCB40.H145.M12CPY				145		38	
TCB40.H175.M12CPY				175		42	
TCB40.H55.M16CPY				44		34	
TCB40.H75.M16CPY		M16		69	29	34	
TCB40.H95.M16CPY				95		34	
TCB40.H115.M16CPY				115		39	
TCB40.H145.M16CPY				145		39	
TCB40.H175.M16CPY	11	175	21	39			
TCB50.H85.M10CPY		M10		85	18	28	
TCB50.H135.M10CPY				135		28	
TCB50.H185.M10CPY				185		32	
TCB50.H85.M12CPY	M12		85	21		32	
TCB50.H135.M12CPY		135	32				
TCB50.H185.M12CPY		185	40				
TCB50.H85.M16CPY		M16	85		29	34	
TCB50.H135.M16CPY	135		36				
TCB50.H185.M16CPY	185		42.5				

**Momento di serraggio consigliato**

Recommended tightening torque for screwed mills

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

**Mandri antivibrazione per frese con attacco filettato**  
 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				M16	400	29	65	
TC50.H500.M16AV					500		76	

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

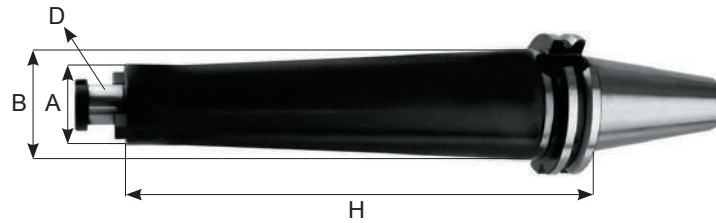
Special for mould and die makers, vibration reduced up to 60% compared to any other conventional shell mill adaptor.

**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 holders 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	50		
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										

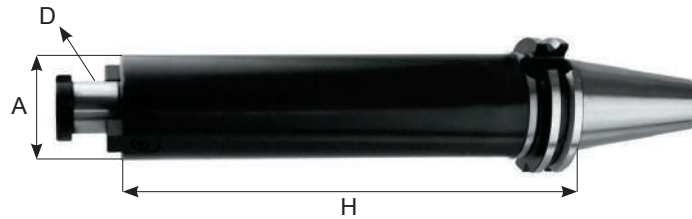
**Speciale per stampisti, riduce le vibrazioni del 60% in comparazione allo standard.**

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 holders DIN/138


**TC40 / 50**
**ANTIVIBRAZIONE**

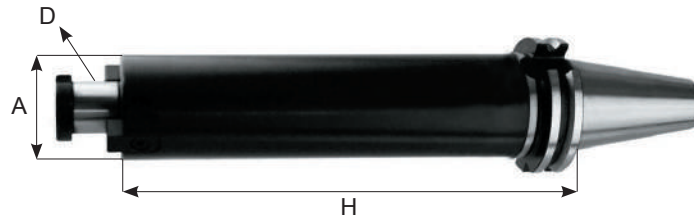
CODICE	FAM	D	H	A	EUR	
TC40.H150.D16AV-38	13	16	150	38		
TC40.H200.D16AV-38			200			
TC40.H250.D16AV-38			250			
TC40.H300.D16AV-38			300			
TC40.H150.D22AV-48		22	150	48		
TC40.H200.D22AV-48			200			
TC40.H250.D22AV-48			250			
TC40.H300.D22AV-48		300				
TC40.H150.D27AV-58		27	150	58		
TC40.H200.D27AV-58			200			
TC40.H250.D27AV-58			250			
TC40.H300.D27AV-58		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	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	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 holders DIN/138



**TC50**

**ANTIVIBRAZIONE**

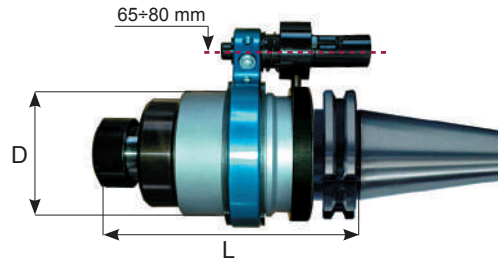
CODICE	FAM	D	H	A	EUR
TC50.H200.D27AV-58	13	27	200	58	
TC50.H250.D27AV-58			250		
TC50.H300.D27AV-58			300		
TC50.H400.D27AV-58			400		
TC50.H500.D27AV-58			500		
TC50.H200.D32AV-78	13	32	200	78	
TC50.H250.D32AV-78			250		
TC50.H300.D32AV-78			300		
TC50.H400.D32AV-78			400		
TC50.H500.D32AV-78			500		

**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.

**Distributore rotante del refrigerante Portapinzze**

ER oil hole holders collet chucks


**TC40 / 50**

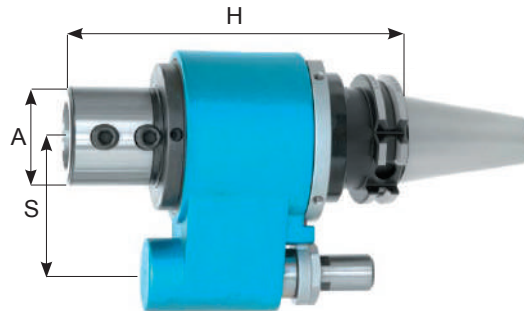
CODICE	FAM	CONO	TIPO	CAP	D	L	BAR	RPM	EUR
TC40.ER20DR	1	TC40	ER20	1 ÷ 14	67	160	7 max	3000 max	
TC40.ER25DR			ER25	1 ÷ 20	75				
TC40.ER32DR			ER32	2 ÷ 22	90				
TC50.ER20DR		TC50	ER20	1 ÷ 14	67				
TC50.ER25DR			ER25	1 ÷ 20	75				
TC50.ER32DR			ER32	2 ÷ 22	90				

CARATTERISTICHE	S
Giro Max / Max rpm	3.000
Precisione del refrigerante	Max 7 bar

Per preservare dall'usura precoce le speciali guarnizioni di tenuta del distributore, il liquido refrigerante deve essere filtrato con residuo max 5 micron.

**Distributore rotante per refrigerazione attacchi cilindrici**

Side lock oil hole holders

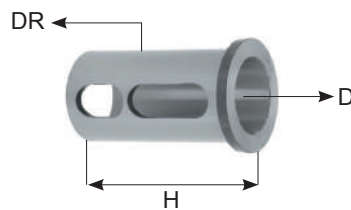

**TC40 / 50**

CODICE	FAM	S	FORMA	H	A	EUR
TC40.D32DR	1	65	AD	165	49.5	
TC50.D40DR		80		170	56	

CARATTERISTICHE	S
Giro Max / Max rpm	3.500
Precisione del refrigerante	Max 7 bar

**Pinze per distributore rotante del refrigerante**

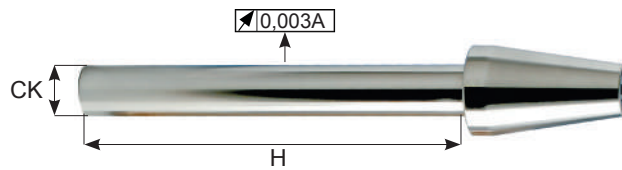
Side lock oil hole holders collets



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 DIN/69871**

Test arbor with accuracy certificate DIN/69871

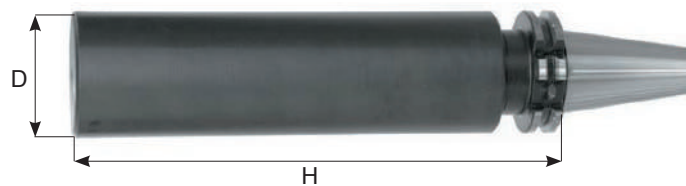


**TC30 / 40 / 50**

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**

Blank bars DIN/69871

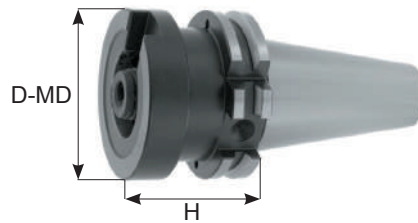


**TC30 / 40 / 50**

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**

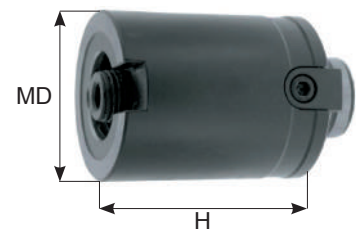
CODICE	FAM	D-MD	FORMA	H	EUR
TCB40.H27.D50MD	1	50	AD+B	27	
TCB40.H50.D50MD		50		50	
TCB40.H27.D63MD		63		27	
TCB40.H50.D63MD		63		50	
TCB50.H27.D50MD		50		27	
TCB50.H50.D50MD		50		50	
TCB50.H27.D63MD		63		27	
TCB50.H50.D63MD		63		50	
TCB50.H27.D80MD		80		27	
TCB50.H50.D80MD		80		50	

**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	



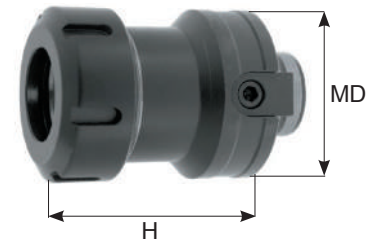
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**Portapinze modulari sistema Varilock**

Modular collet chuck adapters

**MD50 / 63 / 80**

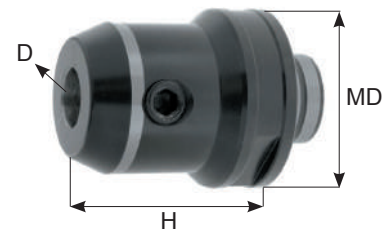
CODICE	FAM	CAP	MD	H	EUR
MD50.H63.ERC20	1	1 ÷ 14	50	63	
MD50.H63.ERC25		1 ÷ 20	50	63	
MD50.H65.ERC32		2 ÷ 22	50	65	
MD63.H77.ERC32		2 ÷ 22	63	77	
MD63.H86.ERC40		3 ÷ 30	63	86	
MD80.H90.ERC40		3 ÷ 30	80	90	


**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	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	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					



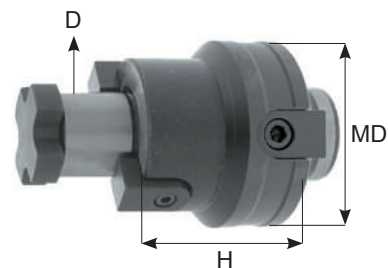
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**Portafrese modulari sistema Varilock**

Shell end mill holders Modular Adapters

**MD50 / 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
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	

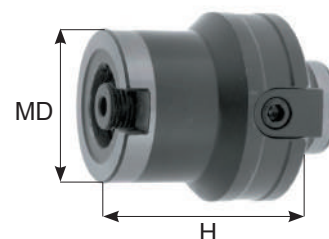


**Riduttori modulari sistema Varilock**

Modular Adapters

**MD63 / 80**

CODICE	FAM	MD	H	EUR
MD63.H60.MD50	12	50	60	
MD80.H80.MD63		63	80	







**MANDRINI  
ATTACCO DIN/2080**

TOOLHOLDERS  
DIN/2080

**8**



# MANDRINI ATTACCO DIN/2080

## TOOLHOLDERS DIN/2080



**MANDRINI A CAMBIO RAPIDO**  
QUICK CHANGE TOOLHOLDERS

**8A**



**MANDRINI PORTAPINZE**  
ER TOOLHOLDERS

**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 TOOLHOLDERS

**8G**



**MANDRINI PORTAPINZE EOC**  
EOC ER TOOLHOLDERS

**8H**

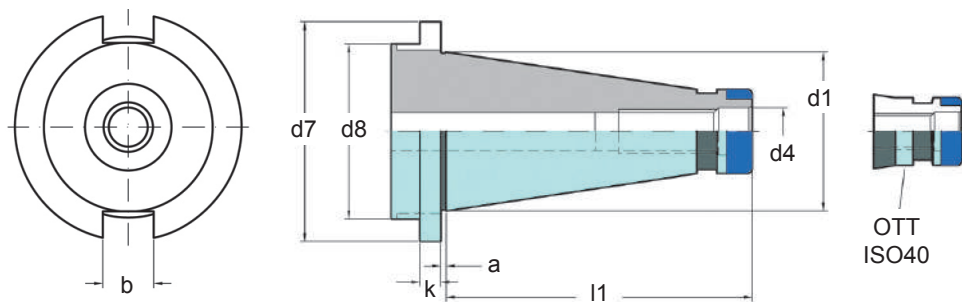


**MANDRINI FORTE SERRAGGIO**  
MILLIN CHUCKS



**Tabella tecnica**

Data sheet



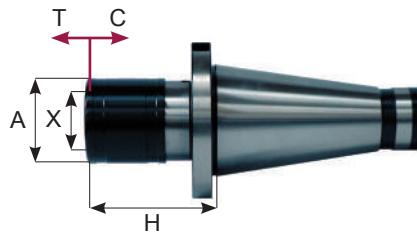
CONO	FORMA	d1	d4	a	b	l1	d7	k	d8
ISO30	AD	31.75	M12	1.6	16.1	68.4	50	8	36
ISO40 *	AD	44.45	M16	1.6	16.1	93.4	63	10	50
ISO50	AD	69.85	M24	3.2	25.7	126.8	97.5	12	78

\* ISO 40 con scanalatura MAHO-OTT

ISO 40 with MAHO-OTT groove

**Mandrini con compressione e trazione**

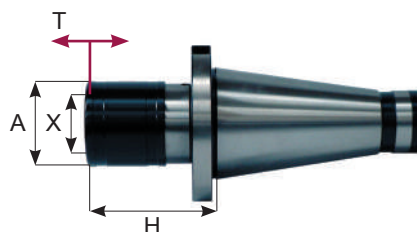
Tension and compression tapholders


**ISO30 / 40 / 50**

CODICE	CAP	X	A	H	T	C	EUR
SK30-THTC1-L51	M3 ÷ M12	19	36	51	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**

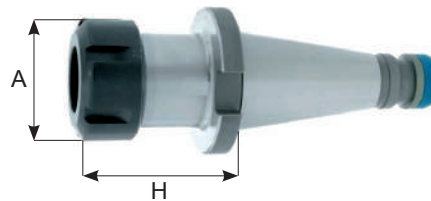
Tension tapholders


**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**

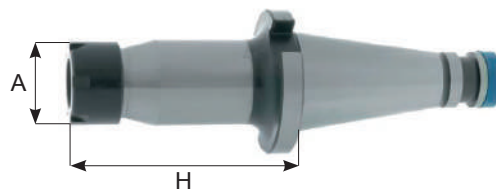
ER toolholders STANDARD nut


**ISO30 / 40 / 50**

CODICE	FAM	CAP	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		12		1 ÷ 10	50	28	
ISO40.H70.ERC16					70		
ISO40.H100.ERC16	100						
ISO40.H50.ERC20	1		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			2 ÷ 22	130	50		
ISO40.H50.ERC32		50					
ISO40.H70.ERC32		70					
ISO40.H100.ERC32		3 ÷ 30	100	63			
ISO40.H130.ERC32	130						
ISO40.H160.ERC32	160						
ISO40.H56.ERC40	1	3 ÷ 30	56	63			
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			
ISO40.H130.ERC50			130				
ISO40.H160.ERC50			160				
ISO50.H70.ERC16		1	1 ÷ 10	70	28		
ISO50.H100.ERC16	100						
ISO50.H130.ERC16	1 ÷ 14		130	34			
ISO50.H70.ERC20			70				
ISO50.H100.ERC20			100				
ISO50.H130.ERC20	1 ÷ 20		130	42			
ISO50.H70.ERC25			70				
ISO50.H100.ERC25			100				
ISO50.H130.ERC25	2 ÷ 22		130	50			
ISO50.H100.ERC32			100				
ISO50.H130.ERC32		130					
ISO50.H160.ERC32	3 ÷ 30	160	63				
ISO50.H70.ERC40		70					
ISO50.H100.ERC40		100					
ISO50.H130.ERC40	6 ÷ 34	130	78				
ISO50.H160.ERC40		160					
ISO50.H67.ERC50		67					

### Portapinze con ghiera MINI

ER toolholders MINI nut

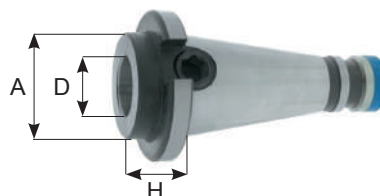


#### ISO30 / 40

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



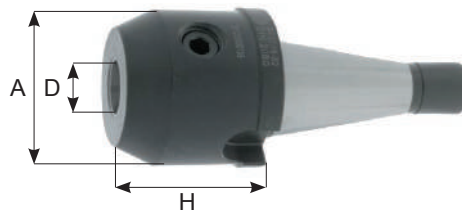
#### ISO40 / 50

CODICE	FAM	D	FORMA	H	A	EUR	
ISO40.H22.WE16	1	16	AD	22	48		
ISO40.H22.WE20		20					
ISO40.H22.WE25		25					
ISO40.H55.WE32	12	32		55		66	
ISO50.H20.WE16		16		20			
ISO50.H20.WE20		20					
ISO50.H20.WE25	25						
ISO50.H35.WE32		32		35			



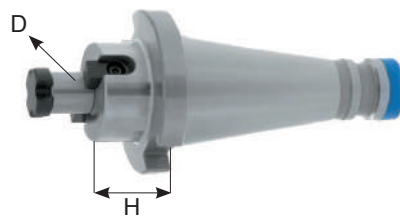
**Portafrese Weldon DIN/1835-B**

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



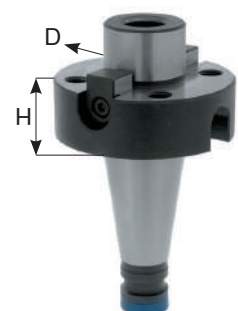
**ISO30 / 40 / 50**

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		52				
ISO40.H100.D22S		100		35		
ISO40.H35.D27S		35				
ISO40.H100.D27S		100				
ISO40.H35.D32S		32				
ISO40.H35.D40S		40		100		
ISO40.H100.D40S		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				

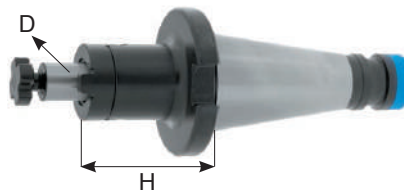
**Portafrese fisso maggiorato**  
Face mill holders

**ISO40 / 50**

CODICE	FAM	D	FORMA	H	EUR
ISO40.H20.D40FM	12	40	AD	20	
ISO40.H30.D60FM	2	60		30	
ISO50.H30.D40FM	12	40		30	
ISO50.H55.D60FM	1	60		55	



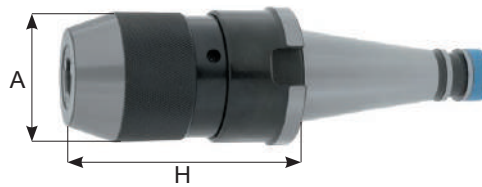
**Portafrese combinato**  
 Combi shell end mill holders


**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.H100.D27C				27		100	
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	

**Mandrini portapunte con chiavi a gancio**

Drill chucks with hook wrench



**ISO40 / 50**

CODICE	FAM	CAP	FORMA	H	A	EUR
ISO40.H88.DCK13S	1	1 ÷ 13	AD	88	50	
ISO40.H100.DCK16S		2,5 ÷ 16		100	58	
ISO50.H80.DCK13S		1 ÷ 13		80	50	
ISO50.H90.DCK16S		2,5 ÷ 16		90	58	

**Portapunte da trapano**  
Replacement drill chuck heads

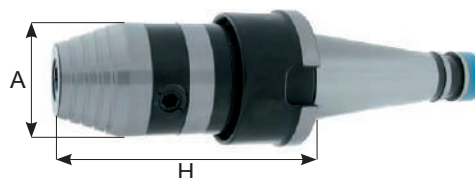
**DCK**

CODICE	FAM	CAP	EUR
DCK13.MT3S	1	1 ÷ 13	113,40
DCK16-MT3S		2,5 ÷ 16	129,60



**Mandrini portapunte a forte serraggio con chiavi esagonali**

Exagonal key lock drill chucks



**ISO40 / 50**

CODICE	FAM	CAP	FORMA	H	A	EUR
ISO40.H105.CP13S	1	1 ÷ 13	AD	105	50	
ISO40.H110.CP16S		2,5 ÷ 16		110	58	
ISO50.H98.CP13S		1 ÷ 13		98	50	
ISO50.H103.CP16S		2,5 ÷ 16		103	58	

**Portapunte a forte serraggio con chiavi esagonali**

Replacement drill chuck heads

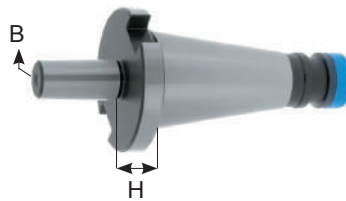
**CP**

CODICE	FAM	CAP	EUR
CP13.MT3	1	1 ÷ 13	
CP16.MT3		2,5 ÷ 16	



**Attacco per Mandrini autoserranti**

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	

**Mandrini autoserranti manuali con griffe in Acciaio**

Drill Chuck heads with Stainless Jaws

**DC**

CODICE	CAP	B
DC13.B16	1 ÷ 13	16
DC16.B16	2,5 ÷ 16	16
DC16.B18		18



**Mandrini autoserranti manuali con griffe in Titanio**

Drill Chuck heads with Titanium Coated Jaws

**DCK**

CODICE	CAP	B
DC8S.B12	0,5 ÷ 8	12
DC10S.B12	0,5 ÷ 10	
DC13S.B12	1 ÷ 13	
DC13S.B16	1 ÷ 13	16
DC16S.B16	2,5 ÷ 16	
DC16S.B18		



**Mandrini autoserranti con chiave esagonale**

Exagonal key drill chucks

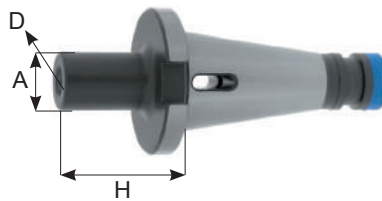
**CP**

CODICE	CAP	B
CP13S-B16	1 ÷ 13	16
CP16S-B16	2,5 ÷ 16	16



**Mandrini riduttori con morse DIN/228-B per Punta**

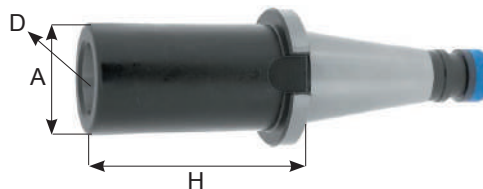
Morse taper DIN/228-B


**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	

**Mandrini riduttori con morse DIN/228-A per Frese**

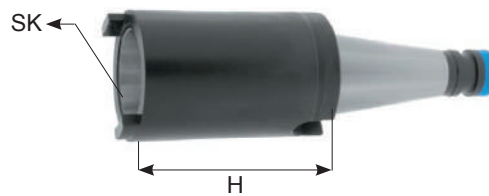
Morse taper DIN/228-A for Threaded Mills


**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		CM3		165	32	
ISO50.H65.CM4FV		CM4		65	48	
ISO50.H165.CM4FV		CM4		165	40	
ISO50.H120.CM5FV		CM5		120	63	

**Mandrini riduttori da ISO a ISO DIN/2080**

Reducing adaptors ISO a ISO DIN/2080

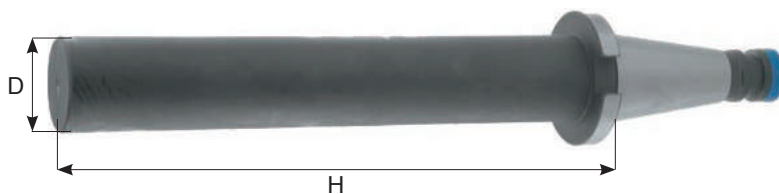


**ISO40 / 50**

CODICE	FAM	ISO	FORMA	H	M	EUR
ISO40.H50.SK30	12	SK30	AD	50	M12	
ISO40.H85.SK40		SK40		85	M16	
ISO50.H16.SK30	1	SK30		16	M12	
ISO50.H16.SK40		SK40		16	M16	
ISO50.H63.SK40	12	SK40		63	M16	
ISO50.H110.SK50		SK50		110	M24	

**Barre tenere DIN/2080**

Blank bars DIN/2080

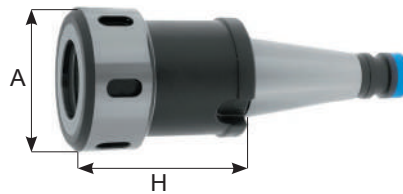


**ISO40 / 50**

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**

ER toolholders EOC DIN/6388 B

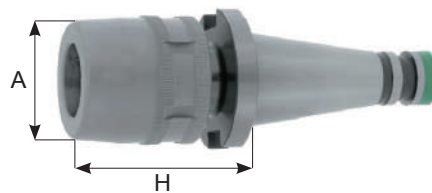


**ISO30 / 40 / 50**

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**

Milling chucks



**ISO30 / 40 / 50**

CODICE	FAM	CAP	FORMA	H	A	EUR
ISO40.H100.FS32	1	3 ÷ 32	AD	100	74	
ISO50.H100.FS32		3 ÷ 32		100	74	

**Kit mandrino portapinze per forte serraggio**

Kit ER toolholder

CODICE	FAM	CAPACITÀ	EUR
BX.ISO40.FS32	1	Pinza 3SR32	
BX.ISO50.FS32		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 TOOLHOLDERS

**9A-1**



**MANDRINI A CAMBIO RAPIDO PASSAGGIO DEL REFRIGERANTE**  
COOLANT QUICK CHANGE TOOLHOLDERS



**SYNCRIO PORTAPINZE**  
SYNCHROFER ER TOOLHOLDERS

**9A-2**



**SYNCRIO CAMBIO RAPIDO**  
QUICK CHANGE SYNCHROFER TOOLHOLDERS



**MANDRINI RIGIDI**  
RIGID TOOLHOLDERS

**9A-3**



**MANDRINI RIGIDI PASSAGGIO DEL REFRIGERANTE**  
COOLANT RIGID TOOLHOLDERS



**MANDRINI IDRAULICI**  
HYDRAULIC CHUCKS

**9A-4**



**MANDRINI PORTAPINZE**  
ER TOOLHOLDERS

**9A-5**



**MANDRINI PORTAFRESE WELDON**  
WELDON END MILL HOLDERS

**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**  
SCREW END MILL CHUCKS

**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 PORTAPINZE ALTA VELOCITÀ**  
HIGH SPEED ER TOOLHOLDERS

**9A-11**



**MANDRINI PORTAPINZE EOC**  
EOC ER TOOLHOLDERS

**9A-12**



**MANDRINI FORTE SERRAGGIO**  
MILLING CHUCKS



**MANDRINI PORTAPINZE RADIALI**  
RADIAL ADJUSTABLE ER TOOLHOLDERS

**9A-13**



**MANDRINI PORTAPUNTE**  
DRILL CHUCKS



**MANDRINI RIDUZIONI HSK / PCS**  
REDUCING ADAPTERS 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 TOOLHOLDERS

**9E-1**



**MANDRINI RIGIDI**  
RIGID TOOLHOLDERS















**MANDRINI PORTAPINZE**  
ER TOOLHOLDERS

**9E-2**

# MANDRINI ATTACCO HSK FORMA - A / C / E / F

## TOOLHOLDERS HKS FORM - A / C / E / F

	<b>MANDRINI PORTAFRESE WELDON</b> WELDON END MILL HOLDERS	<b>9E-3</b>
	<b>MANDRINO PORTAFRESE FISSO</b> SHELL END MILL HOLDERS	<b>9E-4</b>
	<b>MANDRINI RIDUZIONI CONO MORSE</b> MORSE TAPPER TOOLHOLDERS	<b>9E-5</b>
	<b>MANDRINI IDRAULICI</b> HYDRAULIC CHUCKS	<b>9E-6</b>
	<b>MANDRINI A CALETTAMENTO</b> SHRINK FIT HOLDERS	<b>9E-7</b>
	<b>MANDRINI CAMBIO RAPIDO</b> QUICK CHANGE TOOLHOLDERS	<b>9F-1</b>
	<b>MANDRINI PORTAPINZE</b> ER TOOLHOLDERS	<b>9F-2</b>
	<b>MANDRINI IDRAULICI</b> HYDRAULIC CHUCKS	<b>9F-3</b>
	<b>MANDRINI PORTAFRESE WELDON</b> WELDON END MILL HOLDERS	<b>9F-3</b>
	<b>MANDRINI PORTAFRESE COMBINATO</b> COMBI SHELL END MILL HOLDERS	<b>9F-4</b>
	<b>MANDRINO PORTAFRESE FISSO</b> SHELL END MILL HOLDERS	<b>9F-4</b>
	<b>MANDRINI RIDUZIONI CONO MORSE</b> MORSE TAPPER TOOLHOLDERS	<b>9F-5</b>

# MANDRINI ATTACCO HSK FORMA - A / C / E / F

## TOOLHOLDERS HKS FORM - A / C / E / F



**MANDRINI A CALETTAMENTO**  
SHRINK FIT HOLDERS

**9F-6**



**BARRE TENERE**  
BLANK BARS

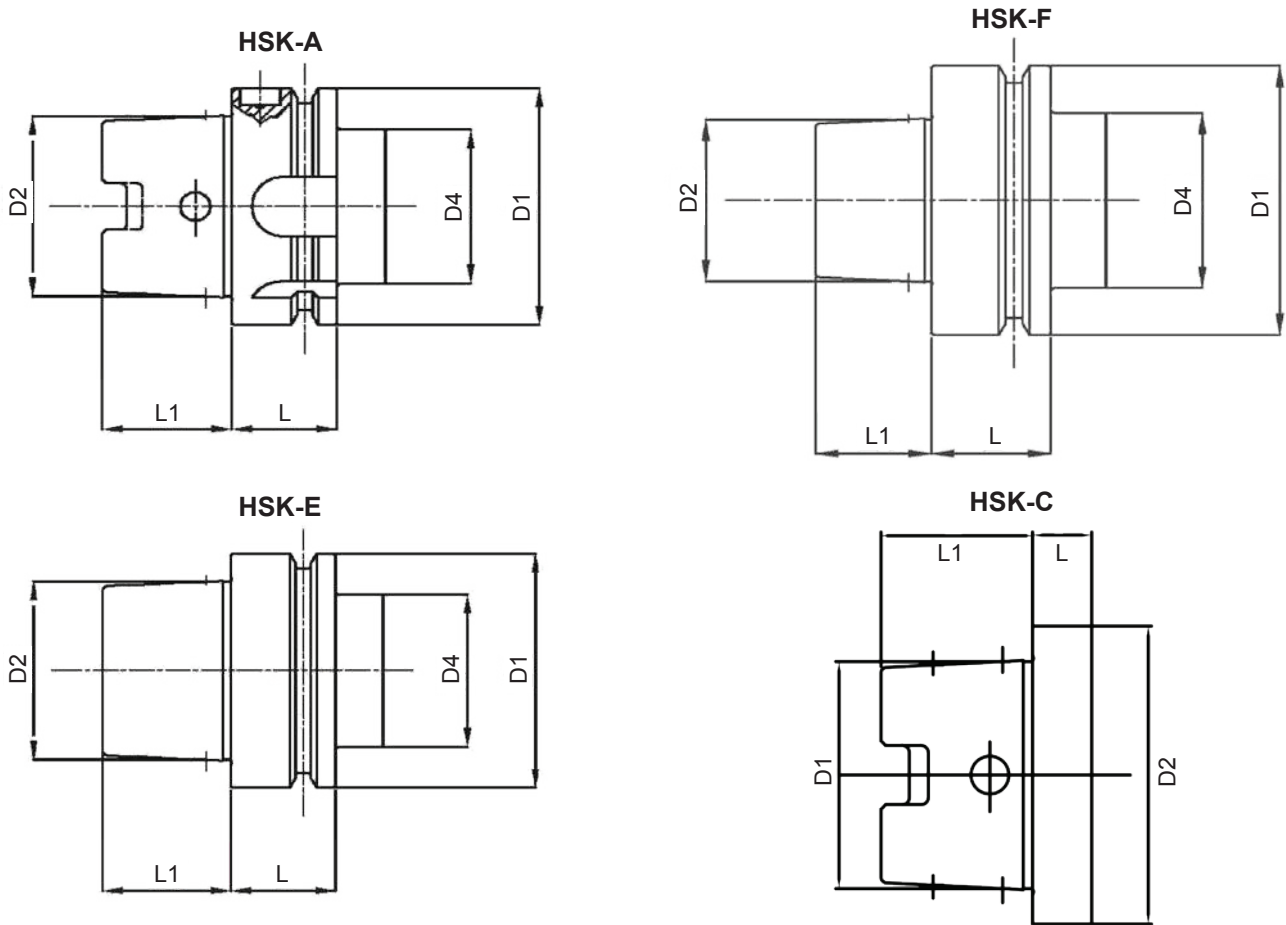
**9F-7**



**BARRE DI CONTROLLO**  
TEST ARBOR

**Tabella tecnica**

Data sheet



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

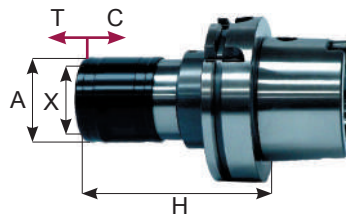
FORMA	D1	D2	L	L1
HSK-C	19	25	10	13
	24	32	10	16
	30	40	10	20
	38	50	12.5	25
	48	63	12.5	32

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 tapholders

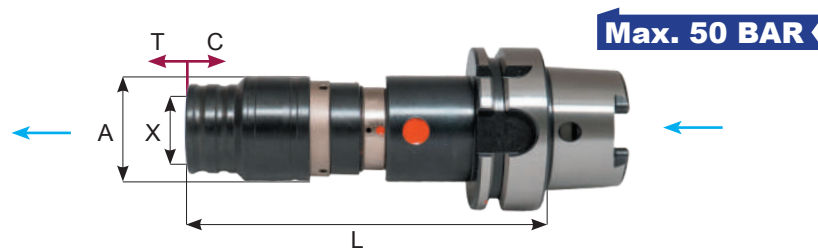

**HSK-A 50 / 63 / 80 / 100**

CODICE	CAP	X	A	H	T	C	EUR
HSK50A-THTC1-L80	M3 ÷ M12	19	36	80	7.5	7.5	
HSK63A-THTC1-L80				80			
HSK100A-THTC1-L82				82			
HSK50A-THTC2-L120	M8 ÷ M20	31	53	120	12.5	12.5	
HSK63A-THTC2-L120				120			
HSK100A-THTC2-L112				112			
HSK63A-THTC3-L164	M14 ÷ M33	48	78	164	20	20	
HSK100A-THTC3-L162				162			

Disponibile anche solo trazione / Also available only tension

**Mandrini con compressione e trazione con passaggio refrigerante**

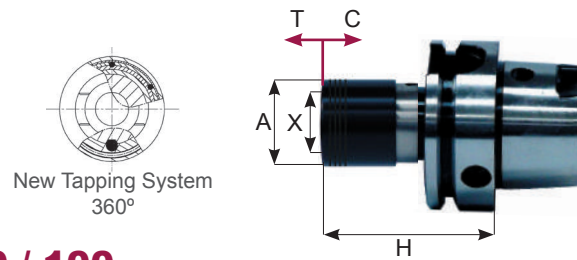
Coolant quick change tension/compression toolholders


**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-L161C	M8 ÷ M20		161	31	56	10	7	
HSK100A-THTC1-L132C	M3 ÷ M12	HSK100	132	19	40	7	3	
HSK100A-THTC2-L168C	M8 ÷ M20		168	31	56	10	7	
HSK100A-THTC3-L245C	M14 ÷ M33		245	48	75	18	13	



**Mandrini con compressione e trazione GC**  
GC tension/compression toolholders

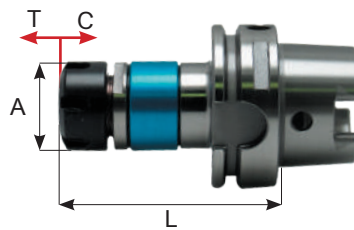


**HSK-A 50 / 63 / 80 / 100**

CODICE	CAP	X	D	L	T	C	EUR
HSK50A-GCTC1-L72	M3 ÷ M12	19	39	72	7.5	7.5	
HSK63A-GCTC1-L72				72			
HSK100A-GCTC1-L80				80			
HSK50A-GCT1-L64.5				64.5	12.5	0	
HSK63A-GCT1-L64.5	64.5						
HSK100A-GCT1-L72.5	72.5						
HSK50A-GCTC2-L110	M8 ÷ M20	31	60	110	10	10	
HSK63A-GCTC2-L110				110			
HSK100A-GCTC2-L100				100			
HSK50A-GCT2-L100				100	16.5	0	
HSK63A-GCT2-L100	100						
HSK100A-GCT2-L90	90						
HSK63A-GCTC3-L141	M14 ÷ M33	48	86	141	17.5	17.5	
HSK100A-GCTC3-L144				144			
HSK63A-GCT3-L123.5				123.5	35	0	
HSK100A-GCT3-L126.5				126.5			

**SYER - Mandrini Portapinze a micro-compensazione assiale in compressione e trazione**

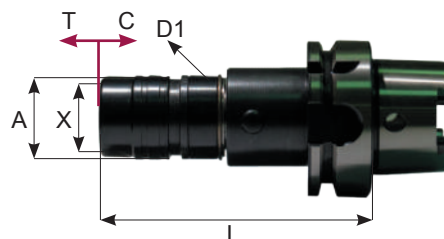
SYER - Synchrofer er tapholders


**HSK-A / 63 / 100**

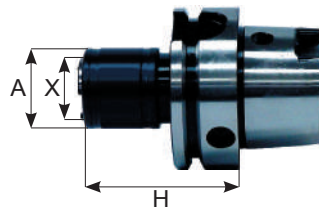
CODICE	CONO	T	C	CAP	ER	A	L	EUR
HSK63A-SYER16M-L89	HSK A 63	0.5	0.5	1 ÷ 10	16M	22	89	
HSK63A-SYER16-L89				1 ÷ 10	16	28	89	
HSK63A-SYER20-L90				1 ÷ 14	20	34	90	
HSK63A-SYER25-L94				1 ÷ 20	25	42	94	
HSK63A-SYER32-L105				2 ÷ 22	32	50	105	
HSK63A-SYER40-L133.5				3 ÷ 30	40	63	133.5	
HSK100A-SYER16M-L97	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	

**SY- Mandrini Portabussole a micro-compensazione assiale in compressione e trazione**

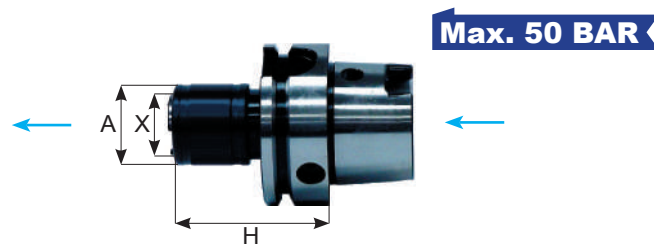
SY - Synchrofer tapholders


**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	

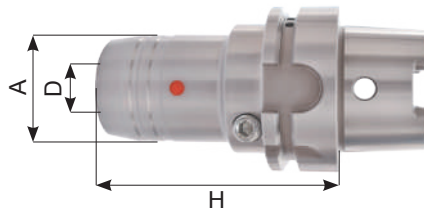
**Mandrini rigidi**  
 Rigid tapholders

**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**  
 Coolant rigid tapholders

**HSK-A 50 / 63 / 100**

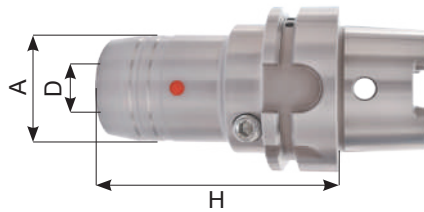
CODICE	CAP	X	A	H	EUR
HSK50A-TLR1-L70C	M3 ÷ M12	19	32	70	
HSK63A-TLR1-L70C				70	
HSK100A-TLR1-L77C				77	
HSK63A-TLR2-L94C	M8 ÷ M20	31	50	94	
HSK100A-TLR2-L96C				96	
HSK63A-TLR3-L130C				M14 ÷ M33	48
HSK100A-TLR3-L134C	134				

**Mandrini idraulici**  
Hydraulic chucks

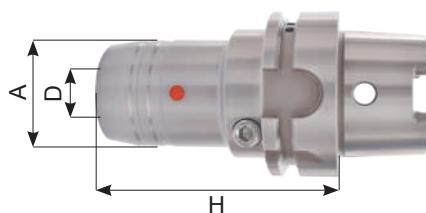


**HSK32A / 40A / 50A**

<b>CODICE</b>	<b>FAM</b>	<b>D</b>	<b>FORMA</b>	<b>H</b>	<b>A</b>	<b>EUR</b>
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.H70.HD6		6		70	26	
HSK40A.H70.HD8		8		70	28	
HSK40A.H75.HD10		10		75	30	
HSK40A.H80.HD12		12		80	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	

**Mandrini idraulici**  
 Hydraulic chucks

**HSK63A**

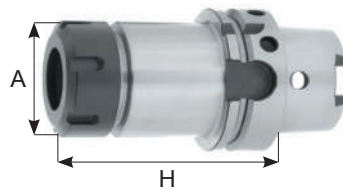
CODICE	FAM	D	FORMA	H	A	EUR
HSK63A.H70.HD6	5	6	HSK	70	26	
HSK63A.H120.HD6		120				
HSK63A.H150.HD6		150				
HSK63A.H200.HD6		6		200	28	
HSK63A.H70.HD8		8		70		
HSK63A.H120.HD8		8		120		
HSK63A.H150.HD8		8		150	30	
HSK63A.H200.HD8		8		200		
HSK63A.H80.HD10		10		80		
HSK63A.H120.HD10		10		120	32	
HSK63A.H150.HD10		10		150		
HSK63A.H200.HD10		10		200		
HSK63A.H85.HD12		12		85	34	
HSK63A.H120.HD12		12		120		
HSK63A.H150.HD12		12		150		
HSK63A.H200.HD12		12		200	38	
HSK63A.H85.HD14		14		85		
HSK63A.H120.HD14		14		120		
HSK63A.H150.HD14		14		150	42	
HSK63A.H200.HD14		14		200		
HSK63A.H90.HD16		16		90		
HSK63A.H120.HD16		16		120	50	
HSK63A.H150.HD16		16		150		
HSK63A.H200.HD16		16		200		
HSK63A.H90.HD18		18		90	53	
HSK63A.H120.HD18		18		120		
HSK63A.H150.HD18		18		150		
HSK63A.H200.HD18		18		200	59	
HSK63A.H90.HD20		20		90		
HSK63A.H120.HD20		20		120		
HSK63A.H150.HD20		20		150		
HSK63A.H200.HD20		20		200		
HSK63A.H120.HD25	25	120				
HSK63A.H125.HD32	32	125				

**Mandrini idraulici**  
 Hydraulic 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

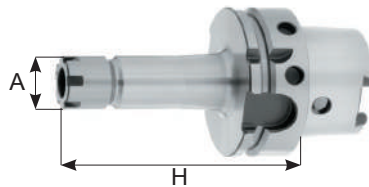

**HSK-A 50 / 63 / 100**

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		1 ÷ 10	15.000	100	28						
HSK63A.H130.ERC16						130	28						
HSK63A.H160.ERC16						160	28						
HSK63A.H100.ERC20						100	34						
HSK63A.H130.ERC20						130	34						
HSK63A.H160.ERC20						160	34						
HSK63A.H100.ERC25						100	42						
HSK63A.H130.ERC25						130	42						
HSK63A.H160.ERC25						160	42						
HSK63A.H80.ERC32						2 ÷ 22	1 ÷ 10	15.000	80	50			
HSK63A.H100.ERC32		100		50									
HSK63A.H130.ERC32		130		50									
HSK63A.H160.ERC32		160		50									
HSK63A.H100.ERC40		3 ÷ 30		1 ÷ 10	15.000				100	63			
HSK63A.H130.ERC40									130	63			
HSK63A.H160.ERC40									160	63			
HSK100A.H100.ERC16			1 ÷ 10						1 ÷ 10	10.000	100	28	
HSK100A.H130.ERC16											130	28	
HSK100A.H160.ERC16											160	28	
HSK100A.H100.ERC20		100		34									
HSK100A.H130.ERC20		130		34									
HSK100A.H160.ERC20		160		34									
HSK100A.H100.ERC25		1 ÷ 20		1 ÷ 10	10.000	100	42						
HSK100A.H130.ERC25						130	42						
HSK100A.H160.ERC25						160	42						
HSK100A.H80.ERC32						2 ÷ 22	1 ÷ 10	10.000			80	50	
HSK100A.H100.ERC32			100						50				
HSK100A.H130.ERC32			130						50				
HSK100A.H160.ERC32		160	50										
HSK100A.H200.ERC32		200	50										
HSK100A.H100.ERC40		3 ÷ 30	1 ÷ 10	10.000	100				63				
HSK100A.H130.ERC40					130	63							
HSK100A.H160.ERC40					160	63							
HSK100A.H200.ERC40					200	63							

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

**Portapinze con ghiera MINI**

Collet chucks ER MINI nut


**HSK-A / 50 / 63 / 100**

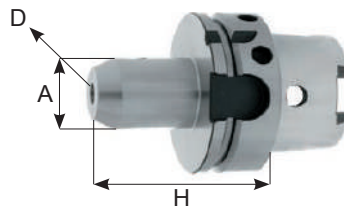
CODICE	FAM	CAP	RPM	H	A	EUR		
HSK50A.H100.ERC16M	1-5	1 ÷ 10	15.000	100	22			
HSK50A.H100.ERC20M		1 ÷ 14			28			
HSK50A.H100.ERC25M		1 ÷ 20			35			
HSK63A.H100.ERC11M		1 ÷ 7		15.000	100	16		
HSK63A.H130.ERC11M					130			
HSK63A.H160.ERC11M					160			
HSK63A.H100.ERC16M		1 ÷ 10		15.000	100	22		
HSK63A.H130.ERC16M					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			1 ÷ 14		10.000	200	28	
HSK100A.H100.ERC20M						100		
HSK100A.H130.ERC20M						130		
HSK100A.H160.ERC20M			1 ÷ 20		10.000	160	35	
HSK100A.H200.ERC20M						200		
HSK100A.H100.ERC25M						100		
HSK100A.H130.ERC25M			1 ÷ 20		10.000	130	35	
HSK100A.H160.ERC25M						160		
HSK100A.H200.ERC25M						200		

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



**Portafrese Weldon DIN/1835-B**

End mill holders for DIN/1835-B



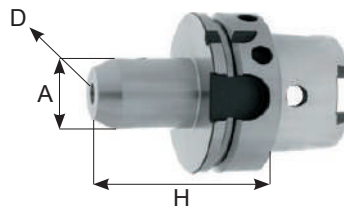
**HSK-A / 50 / 63 / 100**

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		1-11		6	HSK63-A	65	25	
HSK63A.H100.WE6						100		
HSK63A.H160.WE6			160					
HSK63A.H65.WE8	65		28					
HSK63A.H100.WE8	100							
HSK63A.H160.WE8	160							
HSK63A.H65.WE10	65			35				
HSK63A.H100.WE10	100							
HSK63A.H160.WE10	160							

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

**Portafrese Weldon DIN/1835-B**

End mill holders for DIN/1835-B

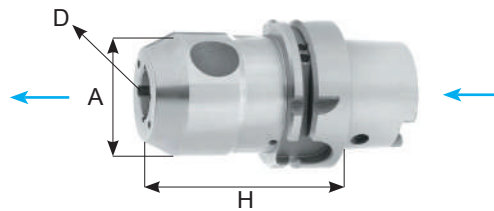

**HSK-A / 63 / 100**

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		11		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	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	120	80			
HSK100A.H130.WE50				50	130	100			

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

**Portafrese Weldon con passaggio del refrigerante DIN/1835-B**

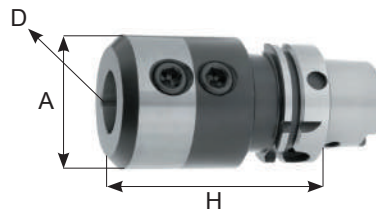
End mill holders with coolant channels DIN/1835-B


**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**

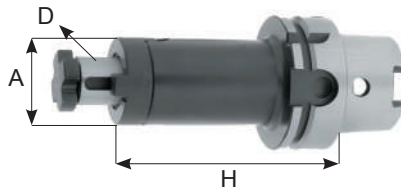
Whistle-Notch end mill holders



**HSK-A / 63 / 100**

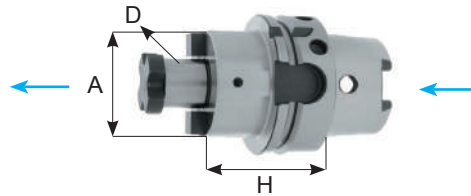
CODICE	FAM	D	FORMA	H	A	EUR
HSK63A.H80.WHN6	1	6	HSK63-A	80	25	
HSK63A.H80.WHN8		8		80	28	
HSK63A.H80.WHN10		10		80	35	
HSK63A.H90.WHN12		12		90	42	
HSK63A.H90.WHN14		14		90	44	
HSK63A.H100.WHN16		16		100	48	
HSK63A.H100.WHN18		18		100	50	
HSK63A.H100.WHN20		20		100	52	
HSK63A.H110.WHN25		25		110	65	
HSK63A.H110.WHN32		32		110	72	
HSK100A.H90.WHN6		HSK100-A	6	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			16	HSK63-A	60	32	
HSK63A.H100.D16C			100				
HSK63A.H60.D22C			22		60	40	
HSK63A.H100.D22C			100				
HSK63A.H60.D27C			27		60	48	
HSK63A.H100.D27C			100				
HSK63A.H60.D32C			32		60	58	
HSK63A.H100.D32C			100				
HSK63A.H70.D40C			40	70	70		
HSK63A.H100.D40C			100				
HSK100A.H60.D16C			16	HSK100-A	60	32	
HSK100A.H100.D16C			100				
HSK100A.H160.D16C			160				
HSK100A.H60.D22C			22		60		40
HSK100A.H100.D22C			100				
HSK100A.H160.D22C			160				
HSK100A.H60.D27C			27		60	48	
HSK100A.H100.D27C			100				
HSK100A.H160.D27C			160				
HSK100A.H60.D32C			32		60		58
HSK100A.H100.D32C			100				
HSK100A.H160.D32C			160				
HSK100A.H70.D40C			40		70	70	
HSK100A.H100.D40C			100				
HSK100A.H160.D40C			160				

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

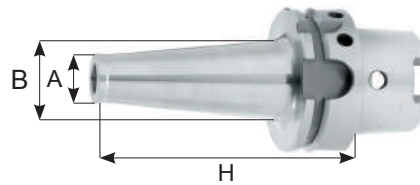
**Portafrese fisso con passaggio del refrigerante**  
 Coolant shell end mill holders

**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			50	48		
HSK63A.H100.D22S			100			
HSK63A.H160.D22S			160			
HSK63A.H60.D27S			60	58		
HSK63A.H100.D27S			100			
HSK63A.H160.D27S			160			
HSK63A.H60.D32S			60	66		
HSK63A.H100.D32S			100			
HSK63A.H160.D32S			160			
HSK63A.H60.D40S		60	80			
HSK100A.H50.D16S		50		32		
HSK100A.H100.D16S		100		38		
HSK100A.H160.D16S		160				
HSK100A.H50.D22S		50	48			
HSK100A.H100.D22S		100				
HSK100A.H160.D22S		160				
HSK100A.H50.D27S		50	58			
HSK100A.H100.D27S		100				
HSK100A.H160.D27S		160				
HSK100A.H50.D32S		50	66			
HSK100A.H100.D32S		100				
HSK100A.H160.D32S		160				
HSK100A.H60.D40S		60	80			
HSK100A.H100.D40S		100				
HSK100A.H160.D40S		160				

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

**Portafrese con filetto**

Screw in mill cucks


**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				M16		79	29	34	
HSK100A.H137.M16CPY	129		40						
HSK100A.H187.M16CPY	179		45						

**Momento di serraggio consigliato**

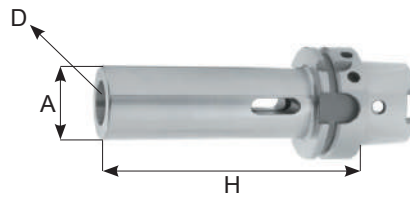
Recommended tightening torque

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

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

**Mandrini riduttori cono morse DIN/228-B per Punta**

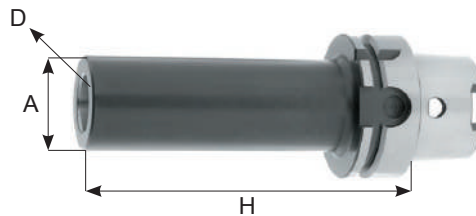
Morse taper DIN/228-B for Drills


**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

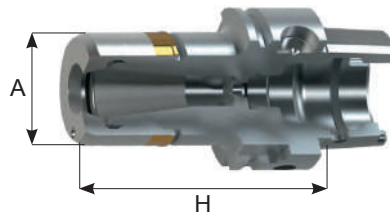

**HSK-A / 63 / 100**

CODICE	FAM	D	FORMA	H	A	EUR
HSK63A.H100.CM1FV	1	CM1	HSK63-A	100	32	
HSK63A.H120.CM2FV		CM2		120	40	
HSK63A.H150.CM3FV		CM3		150	48	
HSK63A.H170.CM4FV		CM4		170	63	
HSK100A.H120.CM2FV		CM2	HSK100-A	120	32	
HSK100A.H150.CM3FV		CM3		150	40	
HSK100A.H170.CM4FV		CM4		170	48	
HSK100A.H200.CM5FV		CM5		200	63	



### Portapinze Alta velocità

ER Collet chucks - HIGH SPEED



#### HSK-A / 63

CODICE	FAM	CAP	EQUIL	FORMA	H	A	EUR
HSK63A.H100.ERC16NF	1	1 ÷ 10	G2.5	HSK-A	100	28	
HSK63A.H100.ERC25NF		1 ÷ 20			100	40	
HSK63A.H100.ERC32NF		2 ÷ 22			100	50	

### Ghiere MNF - NF - Alta velocità

MNF - NF Nut - HIGH SPEED



CODICE	FAM	GHIERA	A	EUR
G11MNF	1	MINI	16	
G16MNF		MINI	24	
G16NF		STANDARD	28	
G25NF		STANDARD	40	
G32NF		STANDARD	50	

### Chiavi CR - Alta velocità

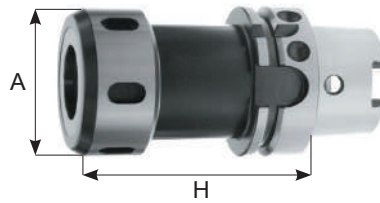
Wrench CR - HIGH SPEED



CODICE	FAM	CHIAVE	EUR
CR11M	1	MINI	
CR16M		MINI	
CR16		STANDARD	
CR25		STANDARD	
CR32		STANDARD	

**Portapinze per pinze EOC DIN/6388 B**

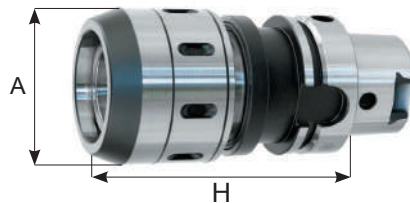
ER collet chucks EOC DIN/6388 B


**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	
HSK100A.H110.EOC16		2 ÷ 16		110	43	
HSK100A.H120.EOC25		2 ÷ 25		120	60	
HSK100A.H130.EOC32		3 ÷ 32		130	72	

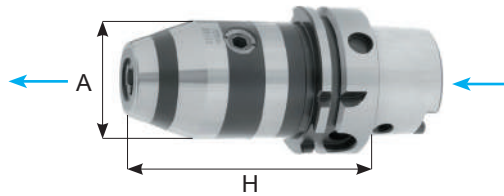
**Portapinze a forte serraggio per pinze cilindriche**

ER power milling chucks


**HSK-A / 50 / 63 / 100**

CODICE	FAM	CAP	FORMA	H	A	EUR
HSK63A.H85.FS20	12	3 ÷ 16	AD	85	56.5	
HSK63A.H110.FS32		3 ÷ 25		110	71	
HSK100A.H105.FS20		3 ÷ 16		105	56.5	
HSK100A.H115.FS32		3 ÷ 25		115	71	

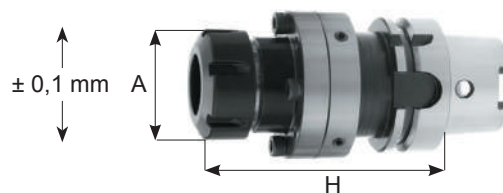
**Mandrini Portapunte**  
Drill chucks



**HSK-A / 63**

CODICE	FAM	CAP	H	A	EUR
HSK63A.H100.HD13	12	1 ÷ 13	100	50	
HSK63A.H105.HD16		2.5 ÷ 16	105		
HSK100A.H108.HD13		1 ÷ 13	108		
HSK100A.H113.HD16		2.5 ÷ 16	113		

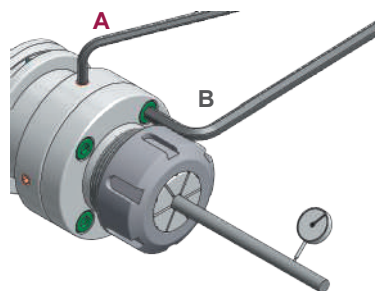
**Portapunte con regolazione radiale**  
Radial adjustable collet chucks



**HSK-A / 63**

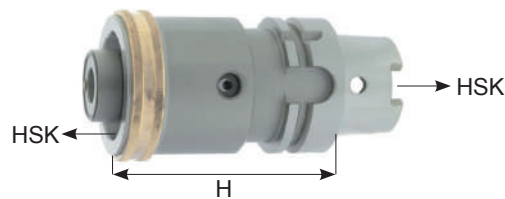
CODICE	FAM	CAP	FORMA	H	A	EUR
HSK63A.H104.ERC32RG	1	2 ÷ 22	HSK63-A	104	50	
HSK100A.H105.ERC20RG		1 ÷ 14	HSK100-A	105	34	

**Centratura regolabile 0,1mm**  
*Adjustable runout 0,1mm*



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

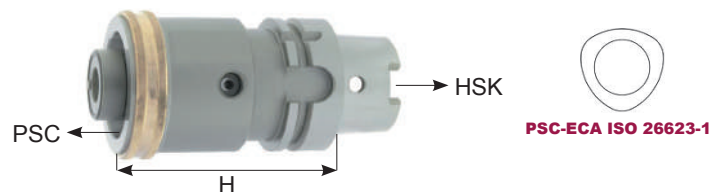
**Mandrini riduttori HSK - HSK con serraggio di sicurezza A/C/E/F**  
 Reducers Chucks HSK - HSK with draw-in collet and covering ring A/C/E/F



**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	

**Mandrini riduttori da HSK a PSC-ECA ISO 26623-1**  
 Adapters from HSK shank to PSC-ECA ISO 26623-1

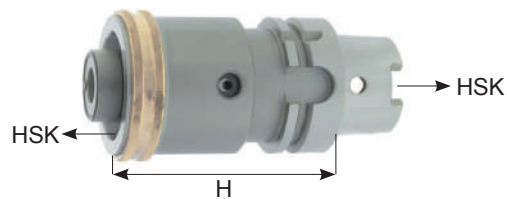


**HSK-C4 / C5 / C6 / C8 / C10**

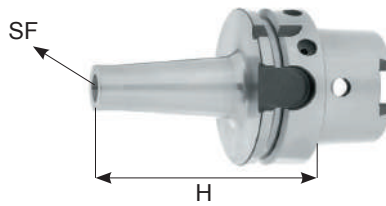
CODICE	FAM	CONO	RIDUTTORE	FORMA	H	EUR
HSK63A.H80.C4	3	HSK	PSC-C4	HSK-A	80	
HSK100A.H90.C4					90	
HSK63A.H90.C5					90	
HSK100A.H100.C5					100	
HSK100A.H110.C6					110	
HSK100A.H120.C8					120	
HSK100A.H155.C10					155	

**Mandrini riduttori HSK - HSK con serraggio di sicurezza A/C**

Reducers Chucks HSK - HSK with draw-in collet and covering ring A/C

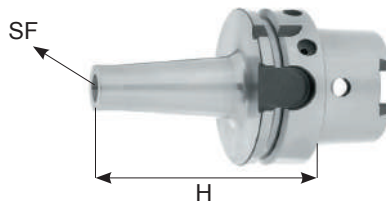

**HSK-A / 32 / 40 / 50 / 63 / 100**

<b>CODICE</b>	<b>FAM</b>	<b>CONO</b>	<b>CONO</b>	<b>H</b>	<b>EUR</b>
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	1	HSK50-A	HSK50-A	80	
HSK50A.H100.HSK50AC				100	
HSK63A.H80.HSK50AC	8	HSK63-A	HSK63-A	80	
HSK63A.H80.HSK63AC				80	
HSK63A.H90.HSK63AC				90	
HSK63A.H100.HSK63AC				100	
HSK63A.H120.HSK63AC	1			120	
HSK63A.H160.HSK63AC				160	
HSK63A.H200.HSK63AC				200	
HSK80A.H100.HSK80AC	8	HSK80-A	HSK80-A	100	
HSK80A.H120.HSK80AC				120	
HSK80A.H160.HSK80AC				160	
HSK100A.H110.HSK100AC	1	HSK100-A	HSK100-A	110	
HSK100A.H115.HSK100AC	8			115	
HSK100A.H140.HSK100AC	1			140	
HSK100A.H160.HSK100AC	8			160	
HSK100A.H200.HSK100AC	1			200	

**Mandrini a calettamento**  
 Shrink Fit holders

**HSK-A / 50 / 63**

CODICE	FAM	SF	RPM	H	EUR
HSK50A.H80.SF3	5	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		SF3		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	SF25	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.

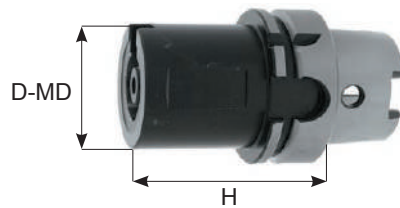
**Mandrini a calettamento**  
 Shrink Fit holders

**HSK-A / 100**

CODICE	FAM	SF	RPM	H	EUR
HSK100A.H85.SF6	5	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 toll holders Varilock system


**HSK-A / 63 / 100**

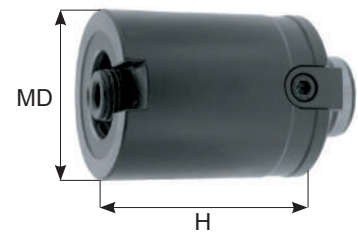
CODICE	FAM	D-MD	FORMA	H	EUR
HSK63A.H75.D50MD	1	50	HSK63-A	75	
HSK100A.H80.D50MD		50	HSK100-A	80	
HSK100A.H90.D63MD		63		90	
HSK100A.H90.D80MD		80		90	

**Adattatori modulari lunghi sistema Varilock**

Valirock 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	



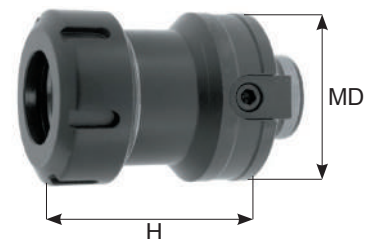
Varilock is a trademark of "Sandvik AB" and is used here only for identification purpose.

**Portapinze modulari sistema Varilock**

ER cucks for Valirock modular system

**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	

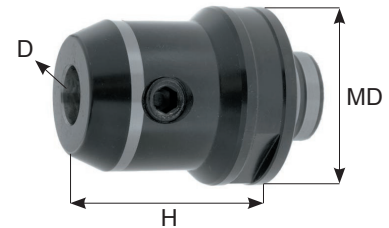




**Portafrese Weldon modulari sistema Varilock**  
End mill holder Weldon for Valirock modular system

**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		

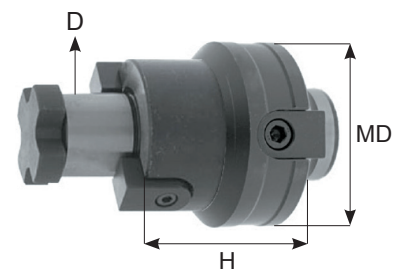


Varilock is a trademark of "Sandvik AB" and is used here only for identification purpose.

**Portafrese modulari sistema Varilock**  
Shell mill holder for Valirock modular system

**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	

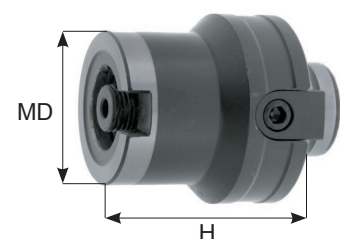


**Riduttori modulari sistema Varilock**  
Adapter for Valirock modular system

**MD63 / MD80**

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

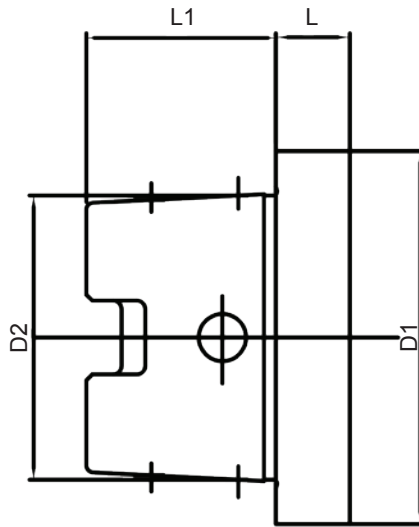
Varilock is a trademark of "Sandvik AB" and is used here only for identification purpose.



**Tabella tecnica**  
Data sheet

**FORMA = C**

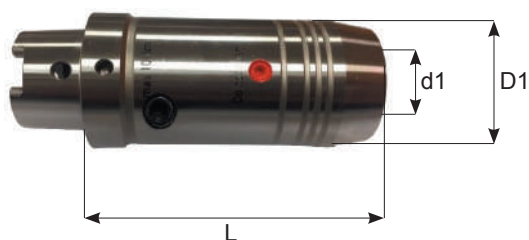
**C**



FORMA	D1	D2	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 chucks

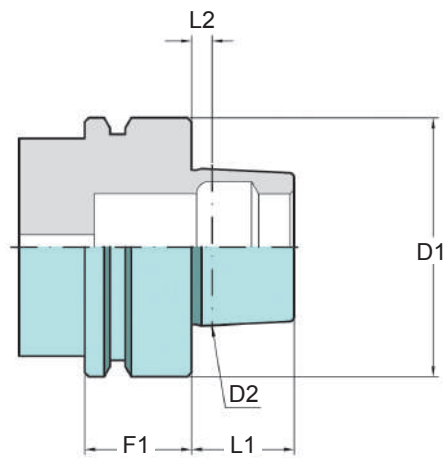

**HSK-C / 40 / 50 / 63**

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**  
Data sheet

**FORMA = E**

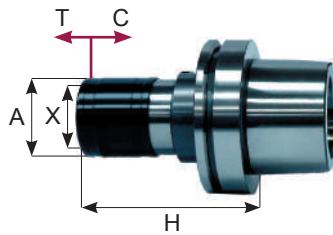
**E**



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

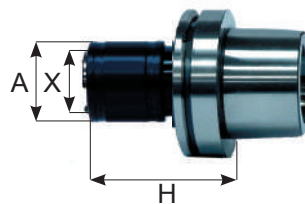


**HSK-E 40 / 50 / 63**

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**

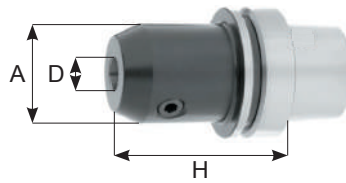
ER collet chucks STANDARD nut


**HSK-E 50 / 63**
**CONO** - BODY BALANCED RPM

<b>CODICE</b>	<b>FAM</b>	<b>CAP</b>	<b>RPM</b>	<b>H</b>	<b>A</b>	<b>EUR</b>
HSK50E.H100.ERC16	1	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**

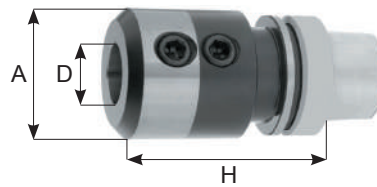
Weldon end mill holders for DIN/1835-B


**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	
HSK50E.H80.WE14		14			44	
HSK50E.H80.WE16		16		48		
HSK50E.H80.WE18		18		50		
HSK50E.H80.WE20		20		52		
HSK63E.H65.WE6		6		15		
HSK63E.H65.WE8		8		20		
HSK63E.H65.WE10		10	25			
HSK63E.H80.WE12		12	30			
HSK63E.H80.WE14		14	32			
HSK63E.H80.WE16		16	36			
HSK63E.H80.WE18		18	38			
HSK63E.H80.WE20		20	40			
HSK63E.H110.WE25		25	46			
HSK63E.H110.WE32		32	64			

**Portafrese Weldon Whistle-Notch**

Whistle-Notch end mill holders



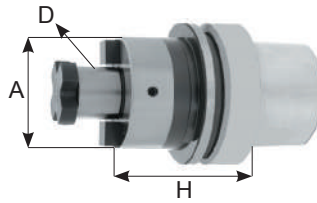
**HSK-E / 50 / 63**

<b>CODICE</b>	<b>FAM</b>	<b>D</b>	<b>FORMA</b>	<b>H</b>	<b>A</b>	<b>EUR</b>	
HSK50E.H80.WHN6	12	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.H100.WHN16		16		100	48		
HSK50E.H100.WHN18		18		100	50		
HSK50E.H100.WHN20		20		100	52		
HSK63E.H65.WHN6		6		HSK63-E	65	25	
HSK63E.H65.WHN8		8			65	28	
HSK63E.H65.WHN10		10	65		35		
HSK63E.H80.WHN12		12	80		42		
HSK63E.H80.WHN14		14	80		44		
HSK63E.H80.WHN16		16	80		48		
HSK63E.H80.WHN18		18	80		50		
HSK63E.H80.WHN20		20	80		52		
HSK63E.H100.WHN25		25	100		65		
HSK63E.H100.WHN32		32	100		72		



**Portafrese fisso**

Shell end mill holders

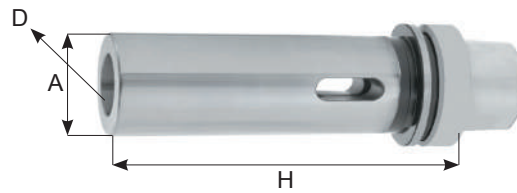


**HSK-E / 50 / 63**

<b>CODICE</b>	<b>FAM</b>	<b>D</b>	<b>FORMA</b>	<b>H</b>	<b>A</b>	<b>EUR</b>
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	

**Mandrini riduttori con morse DIN/228-B per Punte**

Morse taper DIN/228-B for Drills

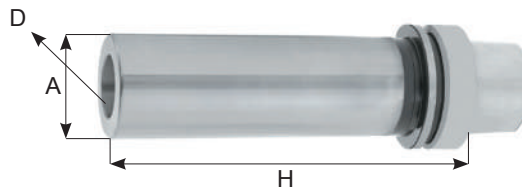


**HSK-E / 50 / 63**

CODICE	FAM	D	FORMA	H	A	EUR
HSK50E.H100.CM1P	12	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	

**Mandrini riduttori con morse DIN/228-A per Frese**

Morse taper DIN/228-A for Threaded Mills



**HSK-E / 40 / 50 / 63**

CODICE	FAM	D	FORMA	H	A	EUR
HSK50E.H105.CM1F	12	CM1	HSK50-E	105	25	
HSK50E.H120.CM2F		CM2		120	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**

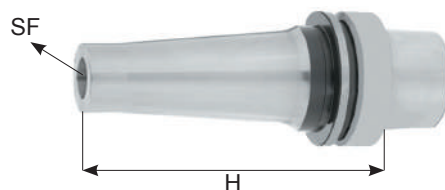
Hydraulic chucks


**HSK-E / 40 / 50**

<b>CODICE</b>	<b>FAM</b>	<b>D</b>	<b>RPM</b>	<b>H</b>	<b>A</b>	<b>EUR</b>
HSK40E.H70.HD6	5	6	25.000	70	26	
HSK40E.H70.HD8		8		70	28	
HSK40E.H75.HD10		10		75	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	

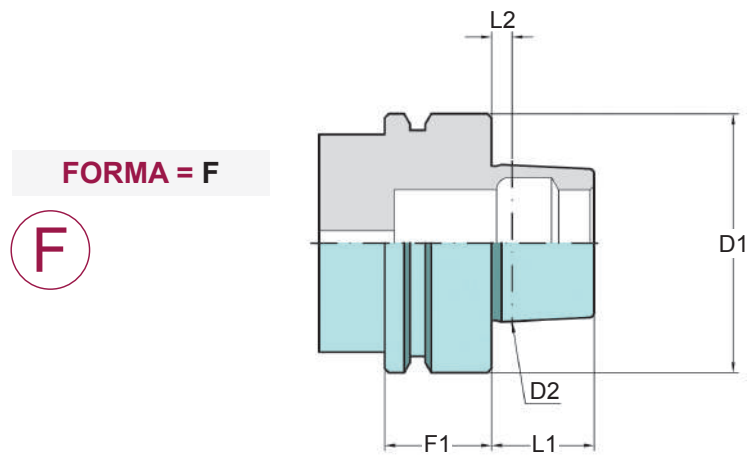
**Mandrini a calettamento**

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				

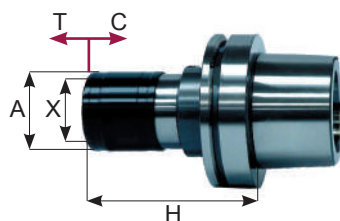
**Tabella tecnica**  
Data sheet



<b>FORMA</b>	<b>D1</b>	<b>D2</b>	<b>L1</b>	<b>L2</b>	<b>F1</b>
<b>HSK-F</b>	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

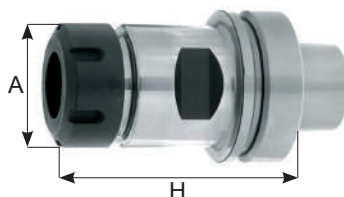


**HSK-F 50 / 63**

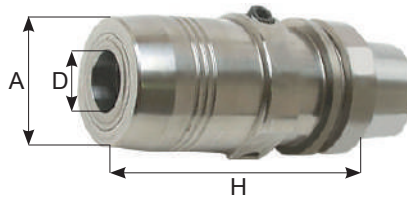
<b>CODICE</b>	<b>CAP</b>	<b>X</b>	<b>A</b>	<b>H</b>	<b>T</b>	<b>C</b>	<b>EUR</b>
HSK50F-THTC1-L80	M3 ÷ M12	19	36	80	7.5	7.5	
HSK63F-THTC1-L81				81			
HSK50F-THTC2-L137	M8 ÷ M20	31	53	137	10	10	
HSK63F-THTC2-L119				119			

**Portapinze con ghiera STANDARD**

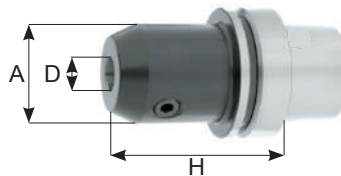
Collet chucks ER STANDARD nut


**HSK-F / 40 / 50 / 63**

CODICE	FAM	CAP	RPM	H	A	EUR
HSK50F.H73.ERC25	12	1 ÷ 20	15.000	100	42	
HSK63F.H100.ERC16		1 ÷ 10		100	28	
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	

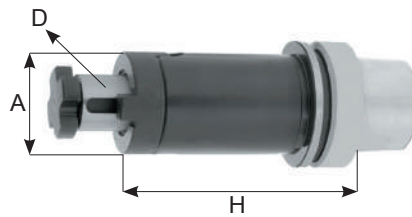
**Portafrese Weldon DIN/1835-B**  
 End mill holders for DIN/1835-B

**HSK-F / 50 / 63**

CODICE	FAM	D	FORMA	H	A	EUR
HSK50F.H65.WE6	12	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 combinato**

Combi shell end mill holders

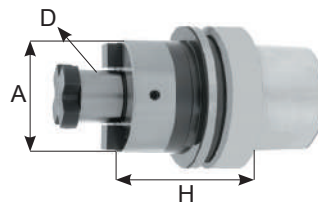


**HSK-F / 63**

CODICE	FAM	D	FORMA	H	A	EUR
HSK63F.H60.D16C	12	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	

**Portafrese fisso**

Shell end mill holders

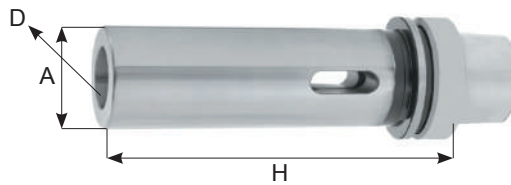


**HSK-F / 50 / 63**

CODICE	FAM	D	FORMA	H	A	EUR
HSK50F.H50.D16S	12	16	HSK50-F	50	38	
HSK50F.H50.D22S		22		50	48	
HSK50F.H60.D27S		27		60	58	
HSK63F.H50.D16S	1	16	HSK63-F	50	50	
HSK63F.H50.D22S		22		50	50	
HSK63F.H60.D27S		27		60	60	
HSK63F.H60.D32S		32		60	78	

**Mandrini riduttori con morse DIN/228-B per Punte**

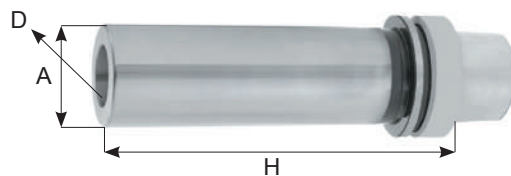
Morse taper DIN/228-B for Drills


**HSK-F / 50 / 63**

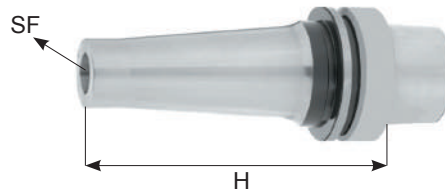
CODICE	FAM	D	FORMA	H	A	EUR
HSK50F.H100.CM1P	12	CM1	HSK50-F	100	25	
HSK50F.H120.CM2P		CM2		120	32	
HSK50F.H140.CM3P		CM3		140	40	
HSK50F.H160.CM4P		CM4		160	48	
HSK63F.H100.CM1P		HSK63-F	CM1	100	25	
HSK63F.H120.CM2P			CM2	120	32	
HSK63F.H140.CM3P			CM3	140	40	
HSK63F.H165.CM4P			CM4	165	48	

**Mandrini riduttori con morse DIN/228-A per Frese**

Morse taper DIN/228-A Threaded Mills


**HSK-F / 50 / 63**

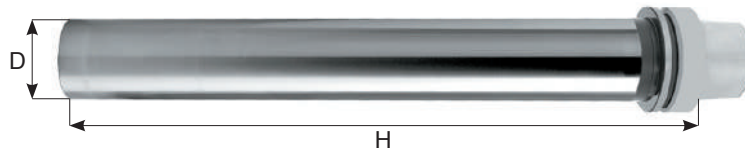
CODICE	FAM	D	FORMA	H	A	EUR
HSK50F.H100.CM1F	12	CM1	HSK50-F	100	25	
HSK50F.H120.CM2F		CM2		120	32	
HSK50F.H140.CM3F		CM3		140	40	
HSK63F.H100.CM1F		CM1		100	25	
HSK63F.H120.CM2F		HSK63-F	CM2	120	32	
HSK63F.H140.CM3F			CM3	140	40	
HSK63F.H160.CM4F			CM4	160	48	

**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



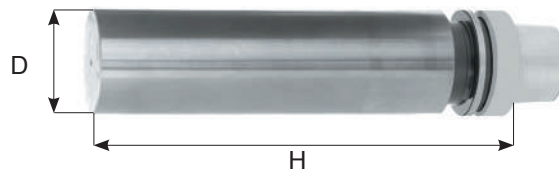
**HSK-F / 63**

☑0.003A

CODICE	FAM	D	FORMA	H	EUR
HSK63F.H335.CK40	1	40	HSK63-F	335	

**Barre tenere**

Blank bars



**HSK-F / 63**

CODICE	FAM	D	FORMA	H	EUR
HSK63F.H200.D63BL	5	63	HSK63-F	200	



**PROGRAMMA  
LEGNO E ALLUMINIO**

WOOD AND ALUMINIUM  
PROGRAM

**10**





# PROGRAMMA LEGNO E ALLUMINIO

## WOOD AND ALUMINIUM PROGRAM



**MANDRINI PORTAPINZE**  
ER TOOLHOLDERS

**10A**



**MANDRINI PORTAFRESE TCL**  
TCL END MILL HOLDERS



**MANDRINI PORTAPINZE TCL SCM**  
TCL SCM ER TOOLHOLDERS

**10B**



**MANDRINI PORTAFRESE TLC SCM**  
TCL SCM END MILL HOLDERS



**FLANGE DI RICAMBIO**  
FLANGE

**10C**



**MANDRINI PORTAPINZE**  
ER TOOLHOLDERS

**10D**



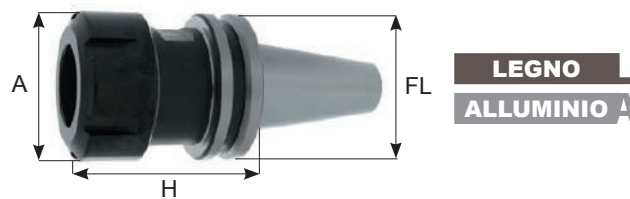
**MANDRINI PORTAPINZE CONO MORSE**  
CONO MORSE ER TOOLHOLDERS





**Portapinzine con ghiere STANDARD**

ER toolholders STANDARD nut


**WD30C**
**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					

**WD30C**
**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					

\* Flangia 46 mm

**Mandrini portafrese TCL30**

TCL30 end mill holders


**TCL30 - Ø EJE 30**

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D30x80.FL46	12	MND3048	24.000	46	35	30	80	45	
TCL30.D30x100.FL46		MND2978					100		
TCL30.D30x150.FL46		MND3051					150		

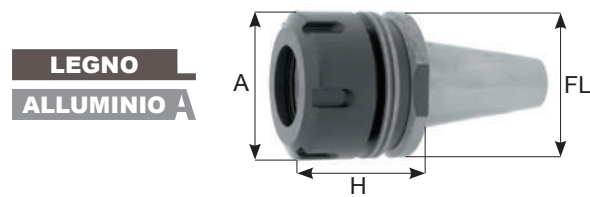
**TCL30 - Ø EJE 35**

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D35x80.FL46	12	MND3147	24.000	46	35	35	80	50	
TCL30.D35x100.FL46		MND3148					100		
TCL30.D35x150.FL46		MND0352					150		

\* Flangia 46 mm

**Portapinzine con ghiere STANDARD**

ER toolholders STANDARD nut


**WD30**
**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

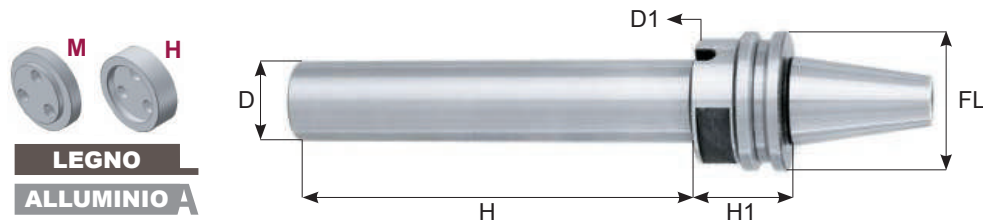
**WD30**
**ROTAZIONE SINISTRA**

CODICE	FAM	CAP	RPM	FL	H	A	EUR
WD30.H50.ERC32LH	1	2 ÷ 22	20.000	50	50	50	
WD30.H67.ERC32LH		2 ÷ 22					67
WD30.H57.ERC40LH		3 ÷ 30					57

\* Flangia 50 mm

**Mandrini portafrese TCL30**

TCL30 end mill holders


**TCL30 - Ø EJE 30**

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D30x80.FL50	12	MND0254	24.000	50	35	30	80	45	
TCL30.D30x100.FL50		MND2967					100		
TCL30.D30x150.FL50		MND3052					150		

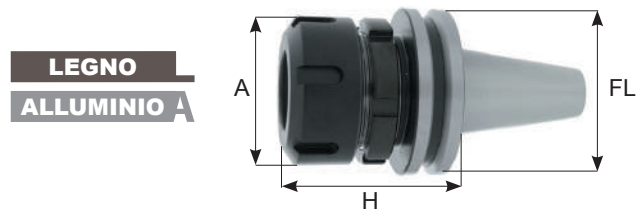
**TCL30 - Ø EJE 35**

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D35x80.FL50	12	MND3135	24.000	50	35	35	80	48	
TCL30.D35x100.FL50		MND3136					100		
TCL30.D35x150.FL50		MND0264					150		

\* Flangia 50 mm

**Portapinzine con ghiere STANDARD**

ER toolholders STANDARD nut



**WD30U**

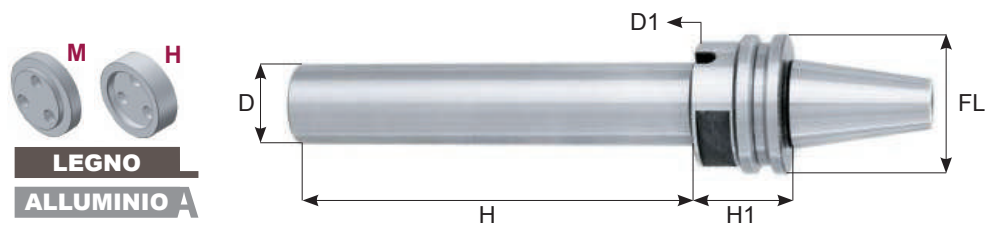
**ROTAZIONE DESTRA - SINISTRA**

CODICE	FAM	CAP	RPM	FL	H	A	EUR
WD30U.H63.ERC32RH	1	2 ÷ 22	20.000	58	63	50	
WD30U.H50.ERC32LH							

\* Flangia 58 mm

**Mandriani portafrese TCL30**

TCL30 end mill holders



**TCL30 - Ø EJE 30**

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D30x80.FL58	12	MND3138	24.000	58	35	30	80	45	
TCL30.D30x100.FL58		MND3139					100		
TCL30.D30x150.FL58		MND3140					150		

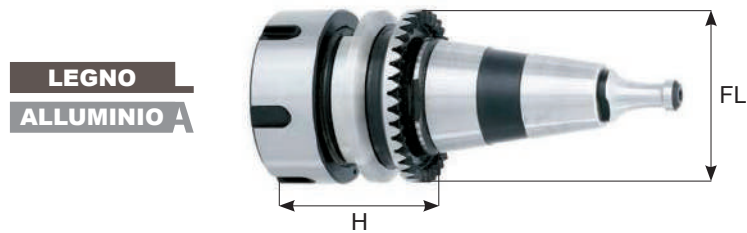
**TCL30 - Ø EJE 35**

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D35x80.FL58	12	MND3142	24.000	58	35	35	80	50	
TCL30.D35x100.FL58		MND3143					100		
TCL30.D35x150.FL58		MND3144					150		

\* Flangia 58 mm

**Mandrini portapinze TCL30 SCM**

TCL30 SCM ER toolholders

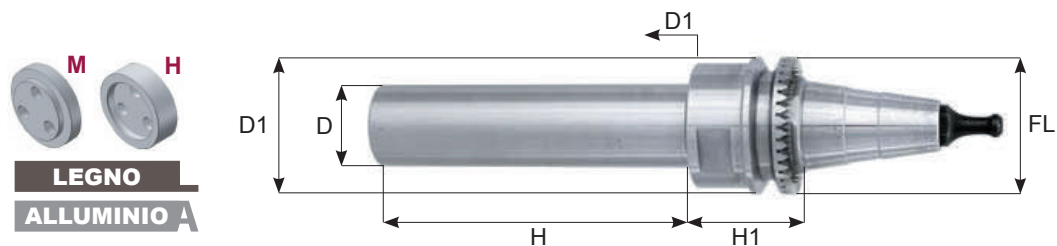

**TCL30**
**ROTAZIONE DESTRA - SINISTRA**

CODICE	FAM	COD	CAP	RPM	H	FL	EUR
TCL30.H55.ERX32SX	12	MND1673	2 ÷ 22	24.000	55	49	
TCL30.H74.ERX40DX		MND3151	3 ÷ 30		74		
TCL30.H74.ERX40SX		MND3152					
TCL30.H70.EOC25DX		MND3153	2 ÷ 25		70		
TCL30.H70.EOC25SX		MND3154					

\* Flangia 49 mm

**Mandrini portafrese TCL30 SCM**

TCL30 SCM end mill holders


**TCL30 - Ø EJE 30 / 35 / 40**

CODICE	FAM	COD	RPM	FL	H1	D	H	D1	EUR
TCL30.D30x80.SCM	12	MND3155	24.000	49	41	30	80	45	
TCL30.D30x100.SCM		MND3103					100		
TCL30.D30x150.SCM		MND3156					150		
TCL30.D35x80.SCM	12	MND3158	24.000	49	41	35	80	50	
TCL30.D35x100.SCM		MND3159					100		
TCL30.D35x150.SCM		MND3160					150		
TCL30.D40x80.SCM	12	MND3162	24.000	49	41	40	80	53	
TCL30.D40x100.SCM		MND3163					100		
TCL30.D40x150.SCM		MND3164					150		

\* Flangia 49 mm

**Flange di ricambio**

Flangia

**LEGNO**

**ALLUMINIO A**



**FLANGIA MASCHIO**

CODICE	FAM	COD	EUR
FLANGIA.D30M	12	SID1674	
FLANGIA.D35M		SID1677	
FLANGIA.D40M		SID1679	

**FLANGIA FEMMINA**

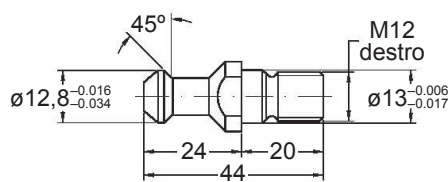
CODICE	FAM	COD	EUR
FLANGIA.D30H	12	SID1673	
FLANGIA.D35H		SID1676	
FLANGIA.D40M		SID1678	

**Tiranti**

Pull studs

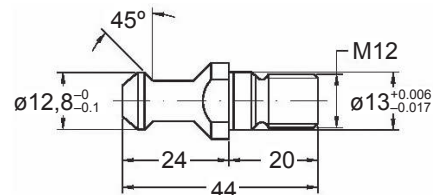
**Tirante tipo Alberti PS.WD30-ALB**

Alberti type PS.WD30-ALB



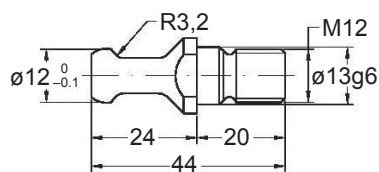
**Tirante tipo COLOMBO PS.WD30-COL**

Colombo type PS.WD30-COL



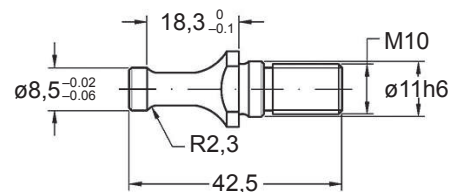
**Tirante tipo Biesse PS.WD30-BS2**

Biesse type PS.WD30-BS2



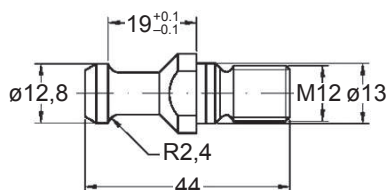
**Tirante tipo SCM PS.WD30-SCM**

SCM type PS.WD30-SCM



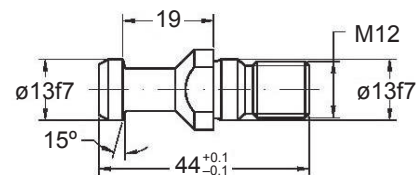
**Tirante tipo CMS PS.WD30-CMS**

CMS type PS.WD30-CMS



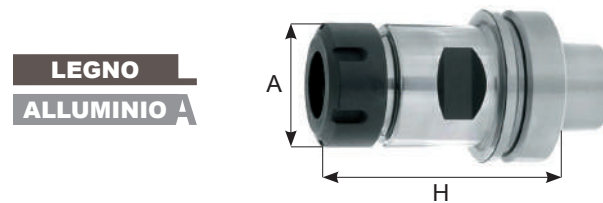
**Tirante tipo DIN/69872 PS.WD30SF**

DIN/69872 PS.WD30SF



**Portapinzine con ghiere STANDARD**

ER toolholders STANDARD nut


**HSK-E / 63**
**ROTAZIONE DESTRA**

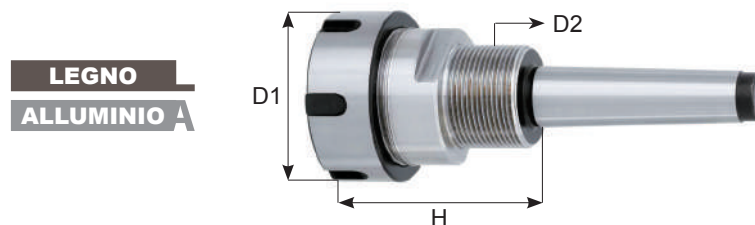
CODICE	FAM	CAP	RPM	H	A	EUR
HSK63E.H73.ERC32RH	1	2 ÷ 22	20.000	73	50	
HSK63E.H78.ERC40RH		3 ÷ 30		78	63	

**HSK-F / 63**
**ROTAZIONE SINISTRA**

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	

**Portapinzine con morse**

Cono morse ER toolholders


**CM2 / CM3**
**ROTAZIONE DESTRA - SINISTRA**

CODICE	FAM	COD	CAP	RPM	CM	H	D1	D2	EUR			
CM2.H62.ERX32.DX-M30	12	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**















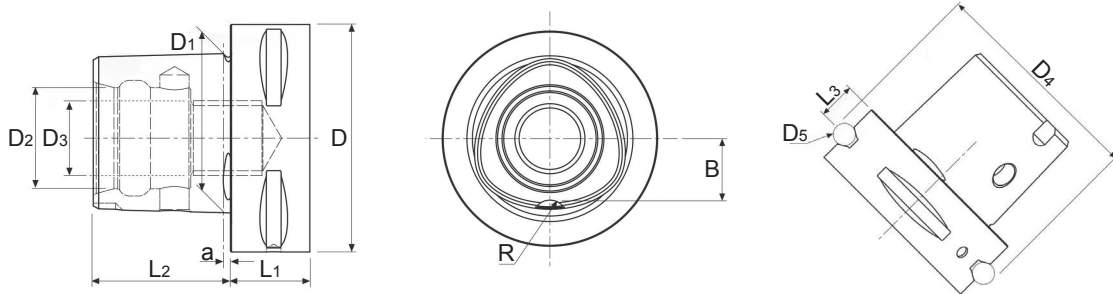
# MANDRINI ATTACCO PSC – ECA ISO 26623-1

## TOOLHOLDERS PSC – ECA ISO 26623-1

	<b>MANDRINI PORTAPINZE</b> ER TOOLHOLDERS	<b>11A</b>
	<b>RIDUTTORI CONO MORSE</b> MORSE TAPER ADAPTERS	
	<b>MANDRINI PORTAFRESE FISSI</b> SHELL END MILL HOLDERS	<b>11B</b>
	<b>MANDRINI PER FRESE WELDON</b> SHELL END MILL HOLDERS	<b>11C</b>
	<b>MANDRINI A CALETTAMENTO</b> SHIRNK FIT HOLDERS	<b>11D</b>
	<b>ESTENSIONI / RIDUZIONI PSC</b> EXTENSION / REDUCTION PSC	<b>11E</b>
	<b>BARRE TENERE</b> BLANK BARS	<b>11F</b>
	<b>BARRE DI CONTROLLO</b> TEST ARBOR BLANK BARS	<b>11G</b>



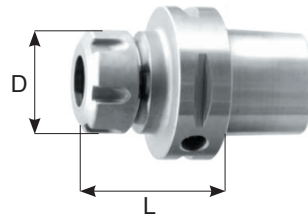
**Tabella tecnica**  
Data sheet



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 con ghiera STANDARD**

Collet chucks STANDARD nut


**C40 / 50 / 63 / 80 / 100**

CODICE	FAM	CAP	D	L	EUR
C40.ER16.L70	14	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.L60		2 + 22	50	60	
C63.ER32.L100		2 + 22	50	100	
C63.ER40.L65	3 + 30	63	65		
C80.ER25.L70	3	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	

**Mandrini riduttori cono morse DIN/228-B per Punta**

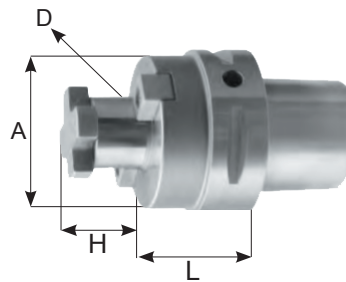
Morse taper DIN/228-B for Drills


**C50 / 63 / 80 / 100**

CODICE	FAM	A	L	D1	EUR
C50.CM2B.L110	13	CM2	110	32	
C50.CM2B.L130		CM3	130	40	
C63.CM2B.L110		CM2	110	32	
C63.CM3B.L130		CM3	130	40	
C63.CM4B.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.L150		CM4	150	52	
C100.CM5B.L175		CM5	175	63	

**Mandrini portafrese fisso**

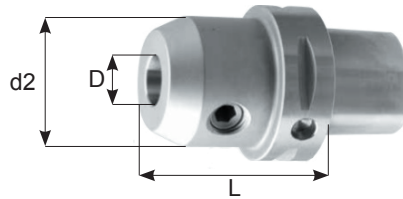
Shell end mill holders


**C40 / 50 / 63 / 80 / 100**

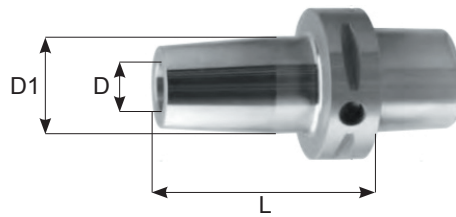
CODICE	FAM	D	L	A	H	EUR
C40.L35.D16S	14	16	35	28	17	
C40.L25.D22S		22	25	48	19	
C50.L35.D16S		16	35	38	17	
C50.L25.D22S		22	25	48	19	
C50.L25.D27S		27	25	56	21	
C50.L40.D32S		32	40	63	24	
C63.L40.D16S		16	35	38	17	
C63.L25.D22S		22	40	48	19	
C63.L25.D27S		27	40	56	21	
C63.L25.D32S		32	40	63	24	
C63.L50.D40S		40	45	87	27	
C80.L50.D16S		16	50	38	17	
C80.L30.D22S		22	30	48	19	
C80.L30.D27S		27	30	56	21	
C80.L30.D32S	32	30	63	24		
C80.L30.D40S	3	40	30	80	25	
C80.L60.D60S	13	60	60	130	40	
C100.L50.D16S	3	16	50	37	17	
C100.L75.D22S		22	75	50	19	
C100.L75.D27S		27	75	60	20	
C100.L75.D32S		32	75	78	22	
C100.L40.D40S		40	40	100	25	
C100.L75.D60S		60	75	130	40	

**Mandrini per frese Weldon DIN/1835 - B**

DIN 1835-B end mill holders

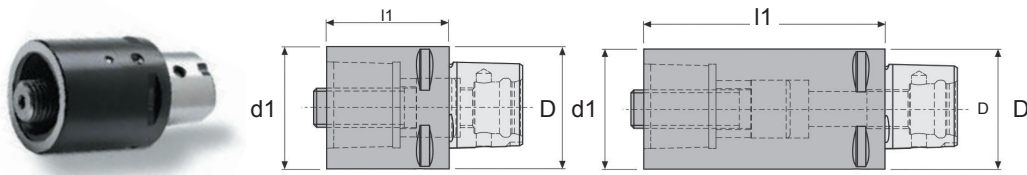

**C40 / 50 / 63 / 80 / 100**

<b>CODICE</b>	<b>FAM</b>	<b>D</b>	<b>d2</b>	<b>L</b>	<b>EUR</b>	
C40.L50.WE6	14	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.L50.WE10		10	35	50		
C50.L55.WE12		12	42	55		
C50.L55.WE14		14	44	55		
C50.L55.WE16		16	48	55		
C50.L60.WE18		18	50	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	50	65		
C63.L65.WE20		20	52	65		
C63.L80.WE25		25	65	80		
C63.L90.WE32		32	72	90		
C63.L100.WE40		40	90	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	50	70		
C80.L70.WE20		20	52	70		
C80.L80.WE25		25	65	80		
C80.L80.WE32		32	72	80		
C80.L110.WE40		40	90	110		
C80.L120.WE50		3	50	98	120	
C100.L100.WE12		13	12	52	100	
C100.L100.WE16			16	65	100	
C100.L90.WE20	3	20	65	90		
C100.L105.WE25		25	65	105		
C100.L110.WE32		32	72	110		
C100.L115.WE40		40	90	115		
C100.L120.WE50	50	98	120			

**Mandirini a calettamento**  
 Shrink fit holders

**C40 / 50 / 63 / 80 / 100**

<b>CODICE</b>	<b>FAM</b>	<b>D</b>	<b>D1</b>	<b>L</b>	<b>EUR</b>	
C40.L75.SF6	14	6	20	75		
C40.L75.SF8		8	20	75		
C40.L75.SF10		10	24	75		
C40.L75.SF12		12	24	75		
C40.L80.SF14		3	14	27	80	
C40.L80.SF16			16	27	80	
C40.L85.SF20	14	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	3	16	80	
C63.L80.SF4	4		18	80		
C63.L80.SF5	5		20	80		
C63.L80.SF6	14	6	20	80		
C63.L80.SF8		8	20	80		
C63.L80.SF10		10	24	80		
C63.L80.SF12		12	24	80		
C63.L85.SF14		14	27	85		
C63.L85.SF16		16	27	85		
C63.L85.SF18		18	33	85		
C63.L85.SF20		20	33	85		
C63.L90.SF25		25	44	90		
C63.L95.SF32		32	44	95		
C80.L85.SF10		3	10	24	85	
C80.L85.SF12			12	24	85	
C80.L90.SF16			16	27	90	
C80.L90.SF20			20	33	90	
C80.L90.SF25	25		44	90		
C100.L95.SF12	12		24	95		
C100.L100.SF16	16		27	100		
C100.L100.SF20	20	33	100			
C100.L110.SF25	25	44	110			

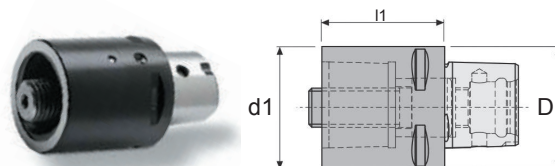
**Estensioni PSC**  
Extension PSC



**C40 / 50 / 63 / 80 / 100**

CODICE	FAM	L1	d1	EUR
C32.L60.EXT32	14	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.L125.EXT80		125	80	
C100.L140.EXT100		3	140	100
C100.L200.EXT100	200		100	

**Riduttori PSC**  
Reduction PSC



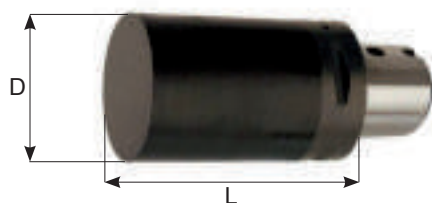
**C40 / 50 / 63 / 80**

CODICE	FAM	ESTENSIONE		d1	D	I1	EUR	
C40.L70.RID32	14	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		3	C10	C6	63	100	200	
C100.L200.RID80			C10	C8	80	100	200	



**Barre tenere**

Blank bars



**C40 / 50 / 63 / 80 / 100**

<b>CODICE</b>	<b>F</b>	<b>D</b>	<b>L</b>	<b>EUR</b>
C40.L165.D85BL	12	85	165	
C50.L180.D63BL		63	180	
C50.L180.D100BL		100	180	
C63.L160.D130BL		130	160	
C63.L200.D75BL		75	200	
C63.L253.D80BL		80	253	
C80.L200.D80BL		80	200	
C80.L200.D150BL		150	200	
C80.L250.D95BL		95	250	
C80.L300.D95BL		95	300	
C100.L100.D100BL		13	100	100
C100.L200.D100BL	100		200	
C100.L100.D150BL	150		100	
C100.L200.D150BL	150		200	

**Barre di controllo**  
Test arbor



**C32 / 40 / 50 / 63 / 80**

CODICE	F	D	L	EUR
C40.L300.D35BC	2	35	300	
C63.L346.D40BC		40	346	
C80.L346.D40BC		40	346	

**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			

## **EMAC TOOLS Srl**

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[www.emac-tools.com](http://www.emac-tools.com)