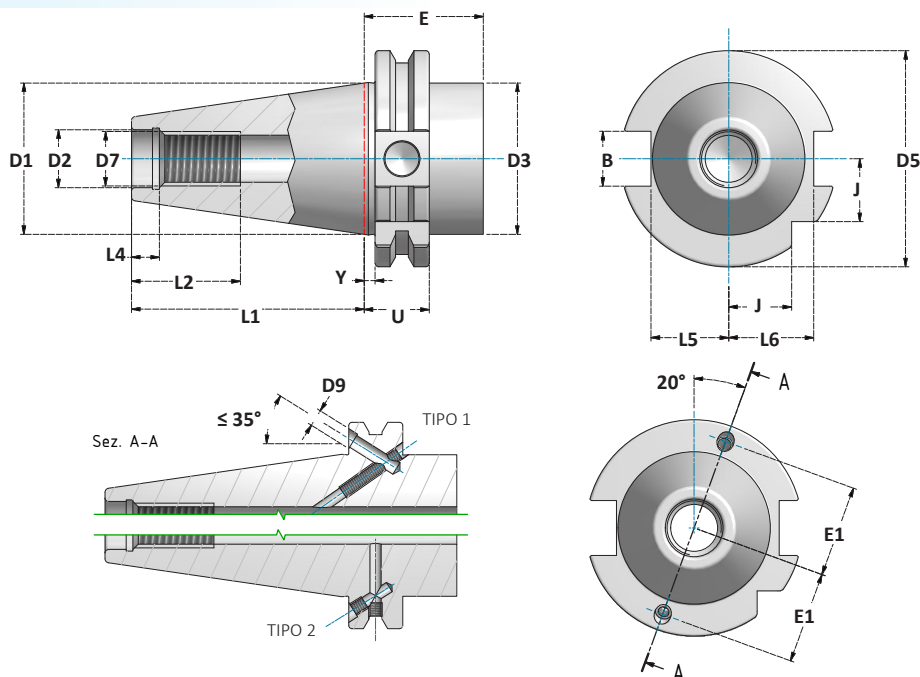


**DIN ISO 7388 (DIN69871) - TC****MANDRINI TC**
TC TOOLHOLDERS* FORM
AD+B**DIMENSIONI CONO**
TAPER DIMENSIONS

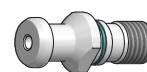
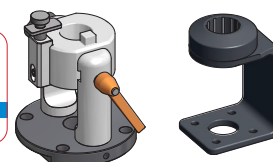
CONO / TAPER	B	D1	D2	D3	D5	D7	D9*	E	E1*	J	L1	L2	L4	L5	L6	Y	U
	+0,2 0		H7	Max	0 -0,1	6H	Max	min			0 -0,3						0 -0,1
TC30	16,1	31,75	13	45	50	M12	-	35	-	15	47,8	24	5,5	16,3	18,8	3,2	19,1
DTC30	16,1	31,75	13	45	50	M12	-	35	-	15	47,8	24	5,5	16,3	18,8	1	19,1
TC40 / TCB40	16,1	44,45	17	50	63,55	M16	4	35	27	18,5	68,4	32	8,2	22,7	25	3,2	19,1
DTC40	16,1	44,45	17	50	63,55	M16	4	35	27	18,5	68,4	32	8,2	22,7	25	1,01	19,1
TC50 / TCB50	25,7	69,85	25	80	97,5	M24	6	35	42	30	101,75	47	11,5	35,5	37,7	3,2	19,1
DTC50	25,7	69,85	25	80	97,5	M24	6	35	42	30	101,75	47	11,5	35,5	37,7	1,5	19,1

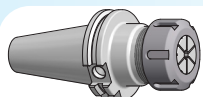
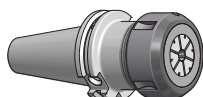
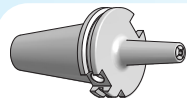
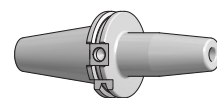
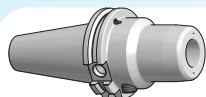
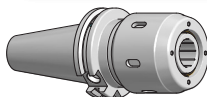
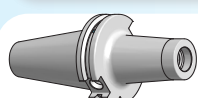
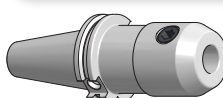
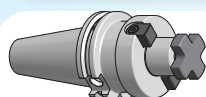
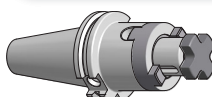
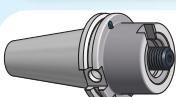
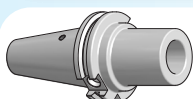
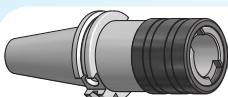
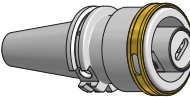
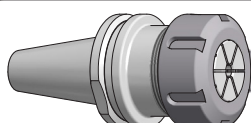
CARATTERISTICHE:

Tolleranza di precisione dei coni: AT3.
 Costruiti in acciaio certificato in barre.
 Eseguiti trattamenti termici da fornitori certificati.
 Rettificati di precisione esternamente e internamente.
 Controllati con strumenti di misura certificati.
 Prebilanciati nei gradi indicati nelle pagine di catalogo.

FEATURES:

The precision tolerance of tapers is AT3.
 Made of certified steel.
 Heat treatments performed by certified suppliers.
 Precision grinding externally and internally.
 Checked with certified measuring instruments.
 Pre-balanced as indicated in the catalog pages.

AD/AD+B **P.359**DOPPIO CONTATTO
DOUBLE CONTACT **P.358**BILANCIATURA
BALANCING **P.360**TIRANTI
PULL STUDS **P.234**SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES **P.310**

**DIN ISO 7388 (DIN69871) - TC****MANDRINI PORTAPINZA ER**
*COLLET CHUCKS ER***DIN ISO 15488 (DIN6499)** *PAG. 68***MANDRINI PORTAPINZA EOC**
*COLLET CHUCKS EOC***DIN ISO 10897 (DIN6388)** *PAG. 75***MANDRINI PORTAPINZA SLC**
*COLLET CHUCKS SLC**PAG. 76***MANDRINI A CALETTAMENTO A CALDO**
*SHRINK FIT CHUCKS**PAG. 77***MANDRINI A SERRAGGIO IDRAULICO**
*HYDRAULIC CHUCKS**PAG. 81***MANDRINI A FORTE SERRAGGIO**
*POWER MILLING CHUCKS**PAG. 82***MANDRINI PORTAFRESA CON ATTACCO FILETTATO**
*SCREW IN MILL CHUCKS**PAG. 84***MANDRINI PORTAFRESA WELDON**
*END MILL HOLDERS WELDON***DIN 1835-2** *PAG. 85***MANDRINI PORTAFRESA FISSI**
*SHELL MILL HOLDERS***DIN 6357** *PAG. 92***MANDRINI PORTAFRESA COMBI**
*COMBI SHELL MILL HOLDERS***DIN 6358** *PAG. 96***MANDRINI MODULARI TIPO VARILOCK**
*MODULAR TOOLHOLDERS VARILOCK TYPE**PAG. 97***RIDUZIONI A CONO MORSE PER PUNTE**
*MORSE TAPER ADAPTERS FOR DRILLS***DIN 6383** *PAG. 98***RIDUZIONI A CONO MORSE PER FRESE**
*MORSE TAPER ADAPTERS FOR THREADED MILLS***DIN 6364** *PAG. 99***MANDRINI PORTAPUNTA**
*DRILL CHUCKS**PAG. 100***PORTAMASCHI**
*TAPPING CHUCKS**PAG. 102***RIDUZIONI**
*ADAPTERS**PAG. 104***DISTRIBUTORI ROTANTI DEL REFRIGERANTE**
*OIL HOLE HOLDERS**PAG. 106***MANDRINI CON STELE LAVORABILE**
*BLANK ARBORS**PAG. 108***BARRE DI COLLAUDO**
*TEST ARBORS**PAG. 330***MANDRINI SENZA TACCHE SULLA FLANGIA PER LA LAVORAZIONE DEL LEGNO E DELL'ALLUMINIO**
*TOOLHOLDERS WITHOUT SLOTS ON FLANGE FOR WOOD AND ALUWORKING MACHINES**PAG. 110*

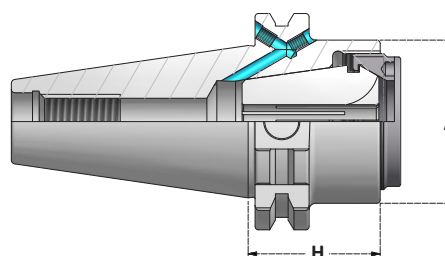
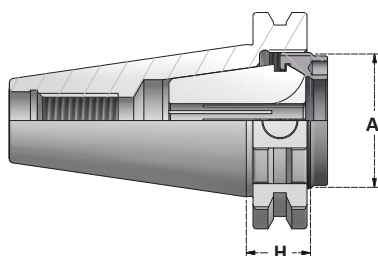
**DIN ISO 7388 (DIN69871) - TC****MANDRINI PORTAPINZA ER**
ER COLLET CHUCKS

DIN ISO 15488 (DIN6499)

ERC A	EXTRACORTI
Pag. 68	<i>STUB LENGTH</i>
ERC MINI	CON GHIERA MINI - <i>ATTACCO DOPPIO CONTATTO</i>
Pag. 69	<i>WITH MINI NUT - DOUBLE CONTACT SHANK</i>
ERC MINI	CON GHIERA MINI
Pag. 69	<i>WITH MINI NUT</i>
ERC	CON GHIERA STANDARD - <i>ATTACCO DOPPIO CONTATTO</i>
Pag. 70	<i>WITH STANDARD NUT - DOUBLE CONTACT SHANK</i>
ERC	CON GHIERA STANDARD
Pag. 71-72	<i>WITH STANDARD NUT</i>
ERC NF	CON GHIERA "NF" SENZA TACCHE - BILANCIATI PER ALTE VELOCITÀ
Pag. 73	<i>WITH "NF" NOTCH FREE NUT - BALANCED FOR HIGH SPEEDS</i>
ERC RG	A CENTRATURA REGOLABILE
Pag. 74	<i>ADJUSTABLE RUNOUT</i>

TC

ERC A

DIN ISO 15488 (DIN6499)**MANDRINI PORTAPINZA ER - EXTRACORTI**
ER COLLET CHUCKS - STUB LENGTH

SCHEDA TECNICA
TECHNICAL DATA
ERC P. 338

Articolo	H	A
TC40.H21.ERC25A	21	32
TC40.H21.ERC32A	21	40

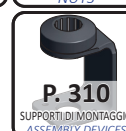
Articolo	H	A
TC50.H21.ERC32A	21	40

Articolo	H	A
TCB40.H40.ERC32A	40	50

Articolo	H	A
TCB50.H40.ERC32A	40	50



	Collets Range	Ghiera Nut
...ERC25A	1÷20	G25A
...ERC32A	2÷22	G32A

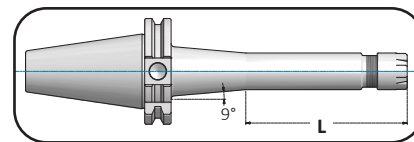
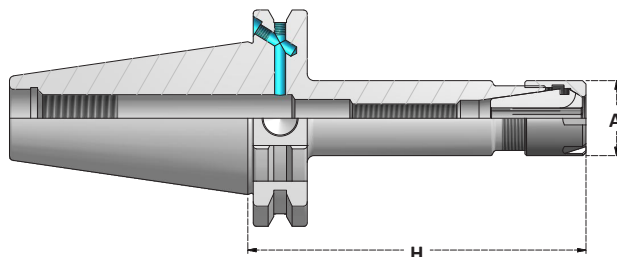
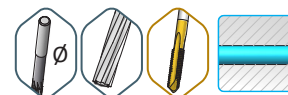
ACCESSORI - ACCESSORIES

Fornibili a richiesta con diverse ghiera e gradi di bilanciatura.

Available on request with different nuts and balancing.



MANDRINI PORTAPINZA ER ER COLLET CHUCKS



SCHEDA TECNICA
TECHNICAL DATA
ERC P. 338

G6,3

15000r.p.m.

ATTACCO STANDARD STANDARD SHANK



Articolo	H
TC30.H100.ERC11M	100
TC30.H100.ERC16M	100
TC30.H100.ERC25M	100



Articolo	H	L
TCB40.H100.ERC11M	100	-
TCB40.H125.ERC11M	125	60
TCB40.H150.ERC11M	150	60
TCB40.H70.ERC16M	70	-
TCB40.H100.ERC16M	100	-
TCB40.H125.ERC16M	125	-
TCB40.H150.ERC16M	150	100
TCB40.H200.ERC16M	200	100
TCB40.H100.ERC20M	100	-
TCB40.H125.ERC20M	125	-
TCB40.H150.ERC20M	150	-
TCB40.H200.ERC20M	200	-
TCB40.H100.ERC25M	100	-
TCB40.H125.ERC25M	125	-
TCB40.H150.ERC25M	150	-
TCB40.H200.ERC25M	200	-



Articolo	H	L
TCB50.H100.ERC16M	100	-
TCB50.H130.ERC16M	130	-
TCB50.H160.ERC16M	160	100
TCB50.H200.ERC16M	200	100
TCB50.H100.ERC20M	100	-
TCB50.H130.ERC20M	130	-
TCB50.H160.ERC20M	160	-
TCB50.H200.ERC20M	200	-
TCB50.H100.ERC25M	100	-
TCB50.H130.ERC25M	130	-
TCB50.H160.ERC25M	160	-
TCB50.H200.ERC25M	200	-

G2,5

25000r.p.m.



ATTACCO A DOPPIO CONTATTO DOUBLE CONTACT SHANK



Articolo	H
DTC40.H100.ERC11M	100
DTC40.H100.ERC16M	100
DTC40.H100.ERC20M	100

	A	Collets Range	Ghiera Nut
...ERC11M	16	1÷7	G11M
...ERC16M	22	1÷10	G16M
...ERC20M	28	1÷14	G20M
...ERC25M	35	1÷20	G25M



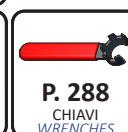
ACCESSORI - ACCESSORIES



P. 250
PINZE
COLLETS



P. 280
GHIERE
NUTS



P. 288
CHIAVI
WRENCHES



P. 310
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES

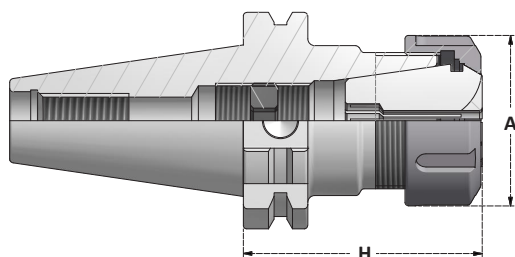
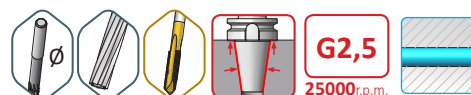


P. 234
TIRANTI
PULL STUDS

Fornibili a richiesta con diverse ghiera e gradi di bilanciatura.

Available on request with different nuts and balancing.



**MANDRINI A DOPPIO CONTATTO PORTAPINZA ER**
DOUBLE CONTACT ER COLLET CHUCKSSCHEDA TECNICA
TECHNICAL DATA
ERC P. 338**ATTACCO A DOPPIO CONTATTO**
DOUBLE CONTACT SHANK

Articolo	H
DTC40.H70.ERC16	70
DTC40.H100.ERC16	100
DTC40.H160.ERC16	160
DTC40.H100.ERC20	100
DTC40.H70.ERC25	70
DTC40.H100.ERC25	100
DTC40.H160.ERC25	160
DTC40.H70.ERC32	70
DTC40.H100.ERC32	100
DTC40.H130.ERC32	130
DTC40.H160.ERC32	160
DTC40.H70.ERC40	70

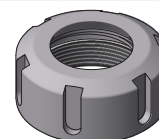
ATTACCO A DOPPIO CONTATTO
DOUBLE CONTACT SHANK

Articolo	H
DTC50.H80.ERC16	80
DTC50.H100.ERC16	100
DTC50.H160.ERC16	160
DTC50.H80.ERC20	80
DTC50.H100.ERC20	100
DTC50.H80.ERC25	80
DTC50.H100.ERC25	100
DTC50.H160.ERC25	160
DTC50.H80.ERC32	80
DTC50.H100.ERC32	100
DTC50.H130.ERC32	130
DTC50.H160.ERC32	160
DTC50.H200.ERC32	200
DTC50.H80.ERC40	80

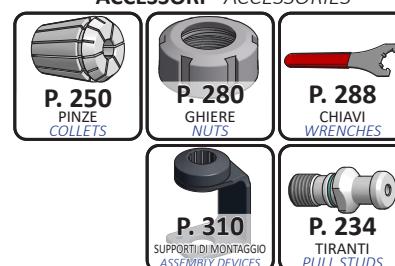
	A	Collets Range	Ghiera Nut
...ERC16	28	1÷10	G16SE
...ERC20	34	1÷14	G20SE



...ERC25	42	1÷20	G25S
...ERC32	50	2÷22	G32S
...ERC40	63	3÷30	G40S



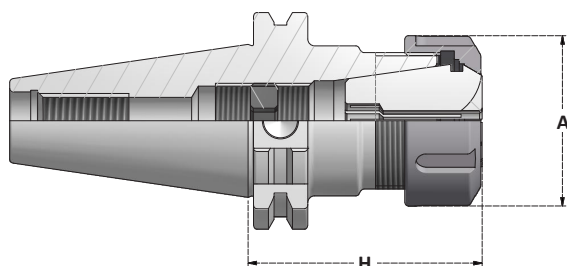
ACCESSORI - ACCESSORIES



Fornibili a richiesta con diverse ghiera e gradi di bilanciatura.

Available on request with different nuts and balancing.



**MANDRINI PORTAPINZA ER**
ER COLLET CHUCKSSCHEDA TECNICA
TECHNICAL DATA
ERC P. 338

Articolo	H
TC30.H63.ERC16	63
TC30.H100.ERC16	100
TC30.H63.ERC20	63
TC30.H100.ERC20	100
TC30.H63.ERC25	63
TC30.H100.ERC25	100
TC30.H63.ERC32	63
TC30.H100.ERC32	100
TC30.H75.ERC40	75
TC30.H100.ERC40	100

Articolo	H
TC40.H70.ERC16	70
TC40.H70.ERC25	70
TC40.H70.ERC32	70
TC40.H100.ERC32	100
TC40.H70.ERC40	70
TC40.H100.ERC40	100

Articolo	H
TC50.H80.ERC32	80
TC50.H100.ERC32	100
TC50.H80.ERC40	80

Fornibili a richiesta con diverse ghiera e gradi di bilanciatura.

Available on request with different nuts and balancing.

KIT - MANDRINO, CHIAVE E PINZE

KIT - TOOLHOLDER, WRENCH AND COLLETS

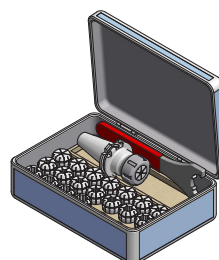
Articolo	Pinze Collets	Mandrino Toolholder	Chiave Wrench
BX.TC30.ERC32-6	ERC32.D6-D8-D10-D12-D16-D20	TC30.H63.ERC32	CH32S
BX.TC30.ERC40-7	ERC40.D6-D8-D10-D12-D16-D20-D25	TC30.H75.ERC40	CH40S

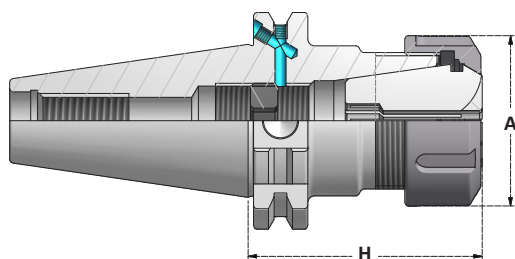
Articolo	Pinze Collets	Ø Pinze Ø Collets	Mandrino Toolholder	Chiave Wrench
BX.TC30.ERC25	ERC25	D2÷16	TC30.H63.ERC25	CH25S
BX.TC30.ERC32	ERC32	D3÷20	TC30.H63.ERC32	CH32S
BX.TC30.ERC40	ERC40	D4÷26	TC30.H75.ERC40	CH40S

	A	Collets Range	Ghiera Nut
...ERC16	28	1÷10	G16SE
...ERC20	34	1÷14	G20SE



...ERC25	42	1÷20	G25S
...ERC32	50	2÷22	G32S
...ERC40	63	3÷30	G40S

**ACCESSORI - ACCESSORIES****P. 250**
PINZE
COLLETS**P. 280**
GHIERE
NUTS**P. 288**
CHIAVI
WRENCHES**P. 310**
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES**P. 234**
TIRANTI
PULL STUDS

**MANDRINI PORTAPINZA ER**
ER COLLET CHUCKSSCHEDA TECNICA
TECHNICAL DATA
ERC P. 338

Articolo	H
TCB40.H70.ERC16	70
TCB40.H100.ERC16	100
TCB40.H130.ERC16	130
TCB40.H160.ERC16	160
TCB40.H200.ERC16	200
TCB40.H70.ERC20	70
TCB40.H100.ERC20	100
TCB40.H130.ERC20	130
TCB40.H160.ERC20	160
TCB40.H200.ERC20	200
TCB40.H70.ERC25	70
TCB40.H100.ERC25	100
TCB40.H130.ERC25	130
TCB40.H160.ERC25	160
TCB40.H200.ERC25	200
TCB40.H47.ERC32	47
TCB40.H70.ERC32	70
TCB40.H100.ERC32	100
TCB40.H130.ERC32	130
TCB40.H160.ERC32	160
TCB40.H200.ERC32	200
TCB40.H70.ERC40	70
TCB40.H100.ERC40	100
TCB40.H130.ERC40	130
TCB40.H160.ERC40	160
TCB40.H200.ERC40	200
TCB40.H85.ERC50	85

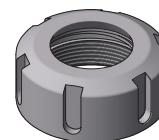


Articolo	H
TCB50.H80.ERC16	80
TCB50.H100.ERC16	100
TCB50.H130.ERC16	130
TCB50.H160.ERC16	160
TCB50.H200.ERC16	200
TCB50.H80.ERC20	80
TCB50.H100.ERC20	100
TCB50.H130.ERC20	130
TCB50.H160.ERC20	160
TCB50.H200.ERC20	200
TCB50.H80.ERC25	80
TCB50.H100.ERC25	100
TCB50.H130.ERC25	130
TCB50.H160.ERC25	160
TCB50.H200.ERC25	200
TCB50.H80.ERC32	80
TCB50.H100.ERC32	100
TCB50.H130.ERC32	130
TCB50.H160.ERC32	160
TCB50.H200.ERC32	200
TCB50.H250.ERC32	250
TCB50.H80.ERC40	80
TCB50.H100.ERC40	100
TCB50.H130.ERC40	130
TCB50.H160.ERC40	160
TCB50.H200.ERC40	200
TCB50.H250.ERC40	250
TCB50.H100.ERC50	100
TCB50.H130.ERC50	130
TCB50.H160.ERC50	160

	A	Collets Range	Ghiera Nut
...ERC16	28	1÷10	G16SE
...ERC20	34	1÷14	G20SE



...ERC25	42	1÷20	G25S
...ERC32	50	2÷22	G32S
...ERC40	63	3÷30	G40S
...ERC50	78	6÷34	G50S



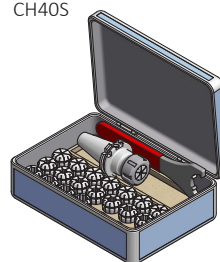
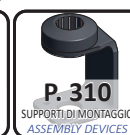
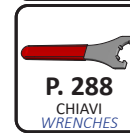
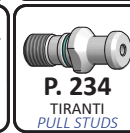
Fornibili a richiesta con diverse ghiera e gradi di bilanciatura.

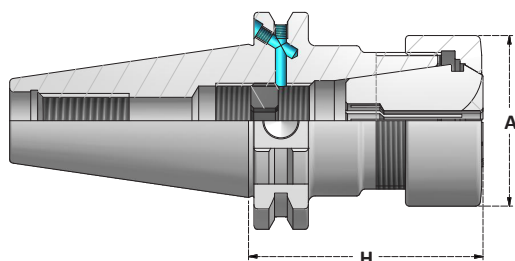
Available on request with different nuts and balancing.

KIT - MANDRINO, CHIAVE E PINZE

KIT - TOOLHOLDER, WRENCH AND COLLETS

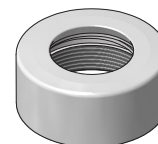
Articolo	Pinze Collets	Mandrino Toolholder	Chiave Wrench	
BX.TCB40.ERC32-6	ERC32.D6-D8-D10-D12-D16-D20	TCB40.H70.ERC32	CH32S	
BX.TCB40.ERC40-7	ERC40.D6-D8-D10-D12-D16-D20-D25	TCB40.H70.ERC40	CH40S	
Articolo	Pinze Collets	Ø Pinze Collets	Mandrino Toolholder	Chiave Wrench
BX.TCB40.ERC25	ERC25	D2÷16	TCB40.H70.ERC25	CH25S
BX.TCB40.ERC32	ERC32	D3÷20	TCB40.H70.ERC32	CH32S
BX.TCB40.ERC40	ERC40	D4÷26	TCB40.H70.ERC40	CH40S
BX.TCB50.ERC25	ERC25	D2÷16	TCB50.H80.ERC25	CH25S
BX.TCB50.ERC32	ERC32	D3÷20	TCB50.H80.ERC32	CH32S
BX.TCB50.ERC40	ERC40	D4÷26	TCB50.H80.ERC40	CH40S

**ACCESSORI - ACCESSORIES**P. 250
PINZE COLLETSP. 280
GHIERE NUTSP. 310
SUPPORTI DI MONTAGGIO ASSEMBLY DEVICESP. 288
CHIAVI WRENCHESP. 234
TIRANTI PULL STUDS

**MANDRINI PORTAPINZA ER PER ALTE VELOCITA'**
ER COLLET CHUCKS FOR HIGH SPEEDSSCHEDA TECNICA
TECHNICAL DATA
ERC P. 338

	A	Collets Range	Ghiera Nut
...ERC11MNF	34	1÷7	G11NFM
...ERC16MNF	28	1÷10	G16NFM
...ERC20MNF	34	1÷14	G20NFM
...ERC25MNF	42	1÷20	G25NFM

	A	Collets Range	Ghiera Nut
...ERC16NF	28	1÷10	G16NF
...ERC20NF	34	1÷14	G20NF
...ERC25NF	42	1÷20	G25NF
...ERC32NF	50	2÷22	G32NF



Articolo	H
TC30.H100.ERC11MNF	100
TC30.H100.ERC16MNF	100
TC30.H100.ERC25MNF	100

Articolo	H
TC30.H63.ERC16NF	63
TC30.H63.ERC20NF	63
TC30.H63.ERC25NF	63
TC30.H63.ERC32NF	63

Articolo	H
TCB40.H100.ERC11MNF	100
TCB40.H125.ERC11MNF	125
TCB40.H150.ERC11MNF	150
TCB40.H100.ERC16MNF	100
TCB40.H125.ERC16MNF	125
TCB40.H150.ERC16MNF	150
TCB40.H100.ERC20MNF	100
TCB40.H125.ERC20MNF	125
TCB40.H150.ERC20MNF	150
TCB40.H100.ERC25MNF	100
TCB40.H125.ERC25MNF	125
TCB40.H150.ERC25MNF	150

Articolo	H
TCB40.H70.ERC16NF	70
TCB40.H100.ERC16NF	100
TCB40.H130.ERC16NF	130
TCB40.H160.ERC16NF	160
TCB40.H70.ERC20NF	70
TCB40.H100.ERC20NF	100
TCB40.H130.ERC20NF	130
TCB40.H160.ERC20NF	160
TCB40.H70.ERC25NF	70
TCB40.H100.ERC25NF	100
TCB40.H130.ERC25NF	130
TCB40.H160.ERC25NF	160
TCB40.H70.ERC32NF	70
TCB40.H100.ERC32NF	100
TCB40.H130.ERC32NF	130
TCB40.H160.ERC32NF	160

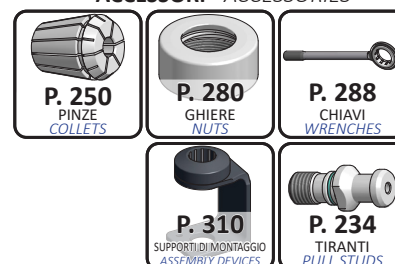
Mandrini prebilanciati a G2,5 / 25000r.p.m. forniti con ghiera "NF" senza tacche.

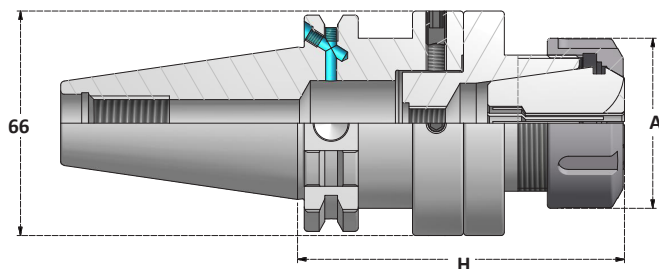
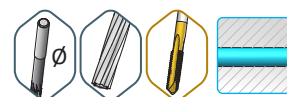
Attacco a doppio contatto disponibile a richiesta.

Toolholders balanced G2,5 / 25000r.p.m. supplied with "NF" notch free nut.

Double contact shank available on request.

ACCESSORI - ACCESSORIES



**MANDRINI PORTAPINZA ER A CENTRATURA REGOLABILE**
RUNOUT ADJUSTABLE ER COLLET CHUCKS

Centratura regolabile
Adjustable runout
 $\pm 0,1\text{mm}$

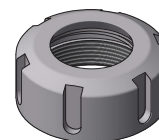
SCHEDA TECNICA
TECHNICAL DATA
ERC P. 338

Articolo	H
TCB40.H93.ERC16RG	93
TCB40.H95.ERC20RG	95
TCB40.H96.ERC25RG	96
TCB40.H97.ERC32RG	97
TCB40.H131.ERC40RG	131

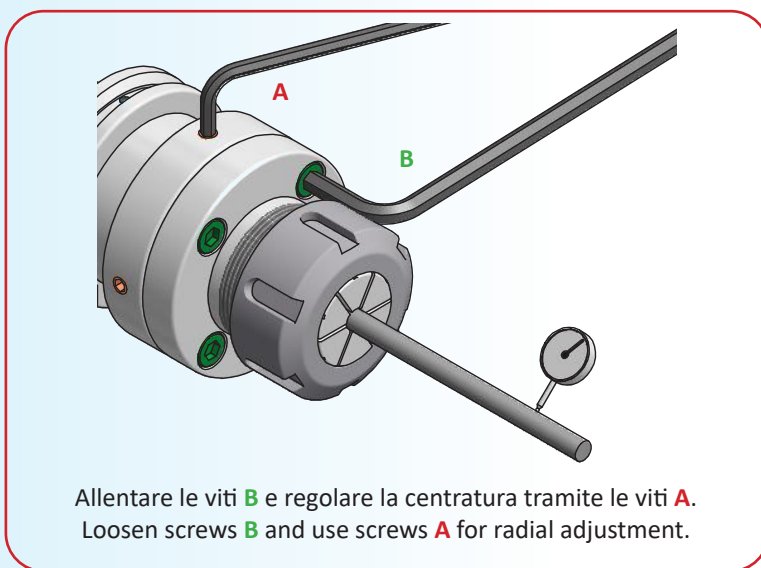
	A	Collets Range	Ghiera Nut
...ERC16	28	1÷10	G16SE
...ERC20	34	1÷14	G20SE



...ERC25	42	1÷20	G25S
...ERC32	50	2÷22	G32S
...ERC40	63	3÷30	G40S

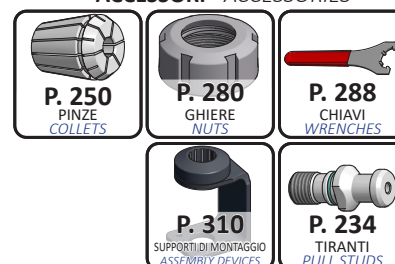


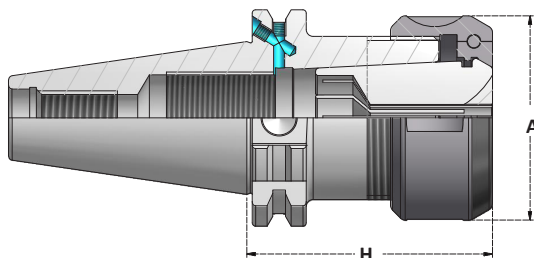
Articolo	H
TCB50.H93.ERC16RG	93
TCB50.H95.ERC20RG	95
TCB50.H96.ERC25RG	96
TCB50.H97.ERC32RG	97
TCB50.H131.ERC40RG	131



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

ACCESSORI - ACCESSORIES



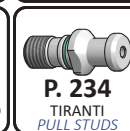
**MANDRINI PORTAPINZA EOC**
EOC COLLET CHUCKS**G6,3**
15000r.p.m.

Articolo	H
TCB40.H70.EOC16	70
TCB40.H100.EOC16	100
TCB40.H70.EOC25	70
TCB40.H100.EOC25	100
TCB40.H90.EOC32	90



Articolo	H
TCB50.H70.EOC16	70
TCB50.H70.EOC25	70
TCB50.H80.EOC32	80

	A	Collets Range	Ghiera Nut
...EOC16	43	2÷16	G16OCC
...EOC25	60	2÷25	G25OCC
...EOC32	72	3÷32	G32OCC

ACCESSORI - ACCESSORIES

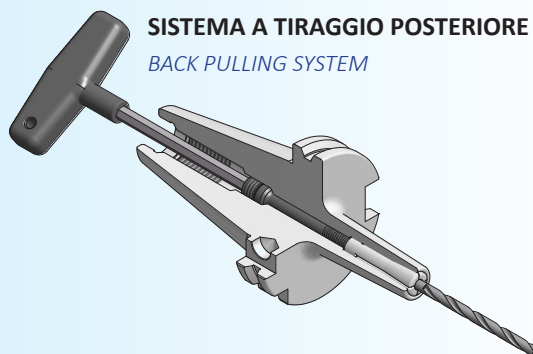
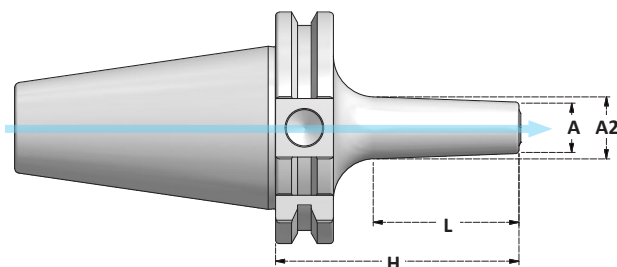


MANDRINI PORTAPINZA SLC SLC COLLET CHUCKS



G2,5

25000r.p.m.



SISTEMA A TIRAGGIO POSTERIORE
BACK PULLING SYSTEM

	A	Collets Range	MT
...SLC6	14	3÷6	12Nm
...SLC12	26	3÷12	45Nm
...SLC25	40	6÷25	90Nm

Momento di serraggio consigliato: **MT**
Recommended tightening torque:

ATTACCO A DOPPIO CONTATTO DOUBLE CONTACT SHANK



Articolo	H	L	A2
DTC40.H70.SLC6	70	36	17
DTC40.H100.SLC6	100	58	20
DTC40.H70.SLC12	70	41	29
DTC40.H100.SLC12	100	73	32
DTC40.H80.SLC25	80	58	45
DTC40.H100.SLC25	100	79	46



Articolo	H	L	A2
DTC50.H70.SLC6	70	36	17
DTC50.H100.SLC6	100	66	20
DTC50.H70.SLC12	70	41	29
DTC50.H100.SLC12	100	73	32
DTC50.H80.SLC25	80	58	45
DTC50.H100.SLC25	100	78	46

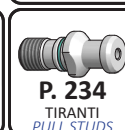
ACCESSORI - ACCESSORIES



P. 273
PINZE
COLLETS



P. 310
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES



P. 234
TIRANTI
PULL STUDS

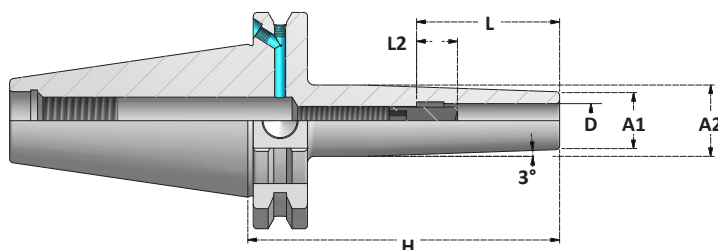


**MANDRINI A CALETTAMENTO A CALDO**
SHRINK FIT CHUCKS

TM SL	SLIM
Pag. 77	<i>SLIM FIT</i>
TM	ATTACCO DOPPIO CONTATTO
Pag. 78	<i>DOUBLE CONTACT SHANK</i>
TM	STANDARD
Pag. 79	<i>STANDARD</i>
TM JET	CON FORI DI LUBRIFICAZIONE
Pag. 80	<i>WITH COOLANT HOLES</i>

TC

TM

MANDRINI A CALETTAMENTO A CALDO SLIM
SLIM SHRINK FIT CHUCKS

SCHEDA TECNICA
TECHNICAL DATA
TM | P. 340



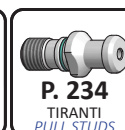
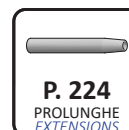
Articolo	H	A2
TCB40.H80.TM3SL	80	13
TCB40.H120.TM3SL	120	16
TCB40.H80.TM4SL	80	15
TCB40.H120.TM4SL	120	20
TCB40.H80.TM5SL	80	16
TCB40.H120.TM5SL	120	20
TCB40.H80.TM6SL	80	17
TCB40.H130.TM6SL	130	19
TCB40.H160.TM6SL	160	19
TCB40.H80.TM8SL	80	19
TCB40.H130.TM8SL	130	21
TCB40.H160.TM8SL	160	21
TCB40.H80.TM10SL	80	21
TCB40.H130.TM10SL	130	23
TCB40.H160.TM10SL	160	23
TCB40.H80.TM12SL	80	23
TCB40.H130.TM12SL	130	25
TCB40.H160.TM12SL	160	25
TCB40.H80.TM14SL	80	25
TCB40.H130.TM14SL	130	27
TCB40.H160.TM14SL	160	27

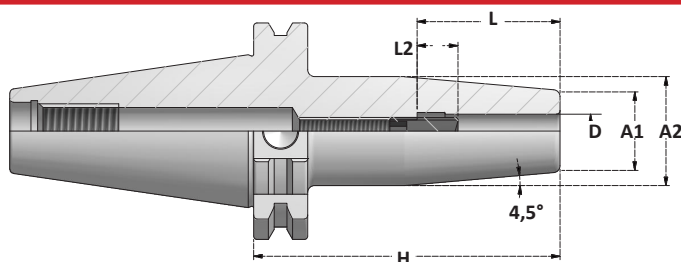
Articolo	H	A2
TCB40.H80.TM16SL	80	29
TCB40.H130.TM16SL	130	31
TCB40.H160.TM16SL	160	31
TCB40.H80.TM18SL	80	34
TCB40.H130.TM18SL	130	35
TCB40.H160.TM18SL	160	35
TCB40.H80.TM20SL	80	39
TCB40.H130.TM20SL	130	39
TCB40.H160.TM20SL	160	39

	D	L	A1	
TM3SL	*	3	12	9
TM4SL	*	4	16	10
TM5SL	*	5	20	11
TM6SL		6	36	12
TM8SL		8	36	14
TM10SL		10	41	16
TM12SL		12	46	18
TM14SL		14	46	22
TM16SL		16	49	24
TM18SL		18	49	28
TM20SL		20	51	32

Profondità regolabile:
Adjustable depth: **L2= 10mm**

* Senza vite di regolazione
* Without adjusting screw

ACCESSORI - ACCESSORIES

**MANDRINI A DOPPIO CONTATTO A CALETTAMENTO A CALDO**
DOUBLE CONTACT SHRINK FIT CHUCKS**G2,5**
25000 r.p.m.SCHEDA TECNICA
TECHNICAL DATA
TM P. 340**ATTACCO A DOPPIO CONTATTO**
DOUBLE CONTACT SHANK

Articolo	H
DTC40.H80.TM6	80
DTC40.H130.TM6	130
DTC40.H160.TM6	160
DTC40.H80.TM8	80
DTC40.H130.TM8	130
DTC40.H160.TM8	160
DTC40.H80.TM10	80
DTC40.H130.TM10	130
DTC40.H160.TM10	160
DTC40.H80.TM12	80
DTC40.H130.TM12	130
DTC40.H160.TM12	160
DTC40.H80.TM14	80
DTC40.H130.TM14	130
DTC40.H160.TM14	160
DTC40.H80.TM16	80
DTC40.H130.TM16	130
DTC40.H160.TM16	160
DTC40.H80.TM18	80
DTC40.H130.TM18	130
DTC40.H160.TM18	160
DTC40.H80.TM20	80
DTC40.H130.TM20	130
DTC40.H160.TM20	160
DTC40.H100.TM25	100
DTC40.H100.TM32	100

ATTACCO A DOPPIO CONTATTO
DOUBLE CONTACT SHANK

Articolo	H
DTC50.H80.TM6	80
DTC50.H80.TM8	80
DTC50.H80.TM10	80
DTC50.H80.TM12	80
DTC50.H80.TM14	80
DTC50.H80.TM16	80
DTC50.H80.TM18	80
DTC50.H80.TM20	80
DTC50.H100.TM25	100
DTC50.H100.TM32	100

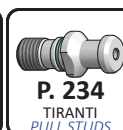
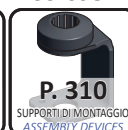
	D	L	A1	A2
...TM6	6	36	21	27
...TM8	8	36	21	27
...TM10	10	41	24	32
...TM12	12	46	24	32
...TM14	14	46	24	32
...TM16	16	49	24	32
...TM18	18	49	33	42
...TM20	20	51	33	42
...TM25	25	57	44	53
...TM32	32	61	44	53

* Senza vite di regolazione

* Without adjusting screw

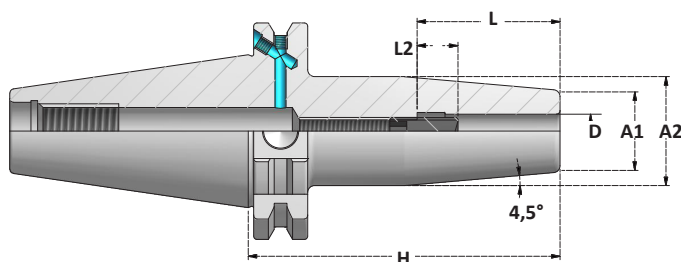
Profondità regolabile: **L2= 10mm**
Adjustable depth:

ACCESSORI - ACCESSORIES



**MANDRINI A CALETTAMENTO A CALDO**
SHRINK FIT CHUCKS**G2,5**

25000 r.p.m.

SCHEDA TECNICA
TECHNICAL DATA
TM P. 340

Articolo	H
TCB40.H80.TM3	80
TCB40.H120.TM3	120
TCB40.H160.TM3	160
TCB40.H80.TM4	80
TCB40.H120.TM4	120
TCB40.H160.TM4	160
TCB40.H80.TM5	80
TCB40.H120.TM5	120
TCB40.H160.TM5	160
TCB40.H80.TM6	80
TCB40.H130.TM6	130
TCB40.H160.TM6	160
TCB40.H80.TM8	80
TCB40.H130.TM8	130
TCB40.H160.TM8	160
TCB40.H80.TM10	80
TCB40.H130.TM10	130
TCB40.H160.TM10	160
TCB40.H80.TM12	80
TCB40.H130.TM12	130
TCB40.H160.TM12	160
TCB40.H80.TM14	80
TCB40.H130.TM14	130
TCB40.H160.TM14	160
TCB40.H80.TM16	80
TCB40.H130.TM16	130
TCB40.H160.TM16	160
TCB40.H80.TM18	80
TCB40.H130.TM18	130
TCB40.H160.TM18	160
TCB40.H80.TM20	80
TCB40.H130.TM20	130
TCB40.H160.TM20	160
TCB40.H100.TM25	100
TCB40.H130.TM25	130
TCB40.H160.TM25	160
TCB40.H100.TM32	100
TCB40.H130.TM32	130
TCB40.H160.TM32	160



Articolo	H
TCB50.H80.TM6	80
TCB50.H120.TM6	120
TCB50.H160.TM6	160
TCB50.H80.TM8	80
TCB50.H120.TM8	120
TCB50.H160.TM8	160
TCB50.H80.TM10	80
TCB50.H120.TM10	120
TCB50.H160.TM10	160
TCB50.H80.TM12	80
TCB50.H120.TM12	120
TCB50.H160.TM12	160
TCB50.H80.TM14	80
TCB50.H120.TM14	120
TCB50.H160.TM14	160
TCB50.H80.TM16	80
TCB50.H120.TM16	120
TCB50.H160.TM16	160
TCB50.H80.TM18	80
TCB50.H120.TM18	120
TCB50.H160.TM18	160
TCB50.H80.TM20	80
TCB50.H120.TM20	120
TCB50.H160.TM20	160
TCB50.H100.TM25	100
TCB50.H120.TM25	120
TCB50.H160.TM25	160
TCB50.H100.TM32	100
TCB50.H120.TM32	120
TCB50.H160.TM32	160

		D	L	A1	A2
...TM3	*	3	12	10	20
...TM4	*	4	16	15	25
...TM5	*	5	20	15	25
...TM6		6	36	21	27
...TM8		8	36	21	27
...TM10		10	41	24	32
...TM12		12	46	24	32
...TM14		14	46	24	32
...TM16		16	49	24	32
...TM18		18	49	33	42
...TM20		20	51	33	42
...TM25		25	57	44	53
...TM32		32	61	44	53

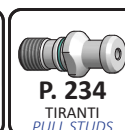
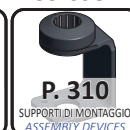
* Senza vite di regolazione

* Without adjusting screw

Profondità regolabile:

Adjustable depth: **L2= 10mm**

ACCESSORI - ACCESSORIES





DIN ISO 7388 (DIN69871)

TC

TM JET

NEW MANDRINI A CALETTAMENTO A CALDO JET

CON FORI PER IL REFRIGERANTE

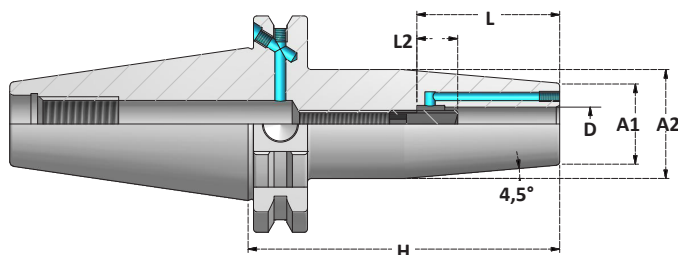
SHRINK FIT CHUCKS JET TYPE

WITH HOLES FOR COOLANT



G2,5

25000r.p.m.



SCHEDA TECNICA
TECHNICAL DATA
TM P. 340



Articolo	H
TCB40.H80.TM6JET	80
TCB40.H120.TM6JET	120
TCB40.H80.TM8JET	80
TCB40.H120.TM8JET	120
TCB40.H80.TM10JET	80
TCB40.H120.TM10JET	120
TCB40.H80.TM12JET	80
TCB40.H120.TM12JET	120
TCB40.H80.TM14JET	80
TCB40.H120.TM14JET	120
TCB40.H80.TM16JET	80
TCB40.H120.TM16JET	120
TCB40.H80.TM18JET	80
TCB40.H120.TM18JET	120
TCB40.H80.TM20JET	80
TCB40.H120.TM20JET	120
TCB40.H100.TM25JET	100
TCB40.H100.TM32JET	100

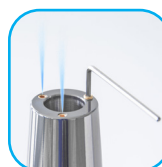


Articolo	H
TCB50.H80.TM6JET	80
TCB50.H120.TM6JET	120
TCB50.H80.TM8JET	80
TCB50.H120.TM8JET	120
TCB50.H80.TM10JET	80
TCB50.H120.TM10JET	120
TCB50.H80.TM12JET	80
TCB50.H120.TM12JET	120
TCB50.H80.TM14JET	80
TCB50.H120.TM14JET	120
TCB50.H80.TM16JET	80
TCB50.H120.TM16JET	120
TCB50.H80.TM18JET	80
TCB50.H120.TM18JET	120
TCB50.H80.TM20JET	80
TCB50.H120.TM20JET	120
TCB50.H100.TM25JET	100
TCB50.H120.TM25JET	120
TCB50.H100.TM32JET	100
TCB50.H120.TM32JET	120

Profondità regolabile: **L2= 10mm**
Adjustable depth:

	D	L	A1	A2
...TM6	6	36	21	27
...TM8	8	36	21	27
...TM10	10	41	24	32
...TM12	12	46	24	32
...TM14	14	46	24	32
...TM16	16	49	24	32
...TM18	18	49	33	42
...TM20	20	51	33	42
...TM25	25	57	44	53
...TM32	32	61	44	53

Altre lunghezze fornibili a richiesta
Other lengths available on request



3 DIVERSE MODALITÀ DI UTILIZZO

3 DIFFERENT APPLICATIONS

Senza montare i grani in dotazione si ha la massima portata del liquido refrigerante

Not using supplied plugs you have maximum flow of coolant

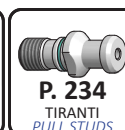
Con l'utilizzo dei grani forati aumenta la pressione - ideale per lavorazioni ad alte velocità

Using plugs with hole the pressure increases - it's used for high speed works

Con l'utilizzo dei grani di chiusura si può lavorare con utensili con fori per il refrigerante

Mounting sealing plugs tools with coolant through can be used

ACCESSORI - ACCESSORIES



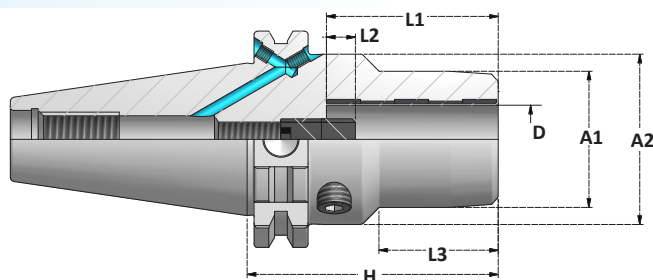
3

80





MANDRINI IDRAULICI HYDRAULIC CHUCKS

**G2,5**
25000 r.p.m.SCHEDA TECNICA
TECHNICAL DATA
HY P. 342

	D	L1	A1	A2
...HY6	6	37	26	49,5
...HY8	8	37	28	49,5
...HY10	10	41	30	49,5
...HY12	12	46	32	49,5
...HY14	14	46	34	49,5

	D	L1	A1	A2
...HY16	16	49	38	49,5
...HY18	18	49	40	49,5
...HY20	20	51	42	49,5
...HY25	25	57	49,5	55
...HY32	32	61	56	63

Profondità regolabile: **L2= 10mm**
Adjustable depth:

Articolo	H	L3
TCB40.H80.HY6	80	40
TCB40.H110.HY6	110	40
TCB40.H80.HY8	80	40
TCB40.H110.HY8	110	40
TCB40.H80.HY10	80	40
TCB40.H110.HY10	110	40
TCB40.H80.HY12	80	40
TCB40.H110.HY12	110	40
TCB40.H80.HY14	80	40
TCB40.H110.HY14	110	40
TCB40.H80.HY16	80	46
TCB40.H110.HY16	110	46
TCB40.H80.HY18	80	46
TCB40.H110.HY18	110	46
TCB40.H65.HY20	65	-
TCB40.H80.HY20	80	46
TCB40.H110.HY20	110	46
TCB40.H95.HY25	95	76
TCB40.H110.HY25	110	91
TCB40.H95.HY32	95	76
TCB40.H110.HY32	110	91



Articolo	H	L3
TCB50.H80.HY6	80	40
TCB50.H110.HY6	110	40
TCB50.H80.HY8	80	40
TCB50.H110.HY8	110	40
TCB50.H80.HY10	80	40
TCB50.H110.HY10	110	40
TCB50.H80.HY12	80	40
TCB50.H110.HY12	110	40
TCB50.H80.HY14	80	40
TCB50.H110.HY14	110	40
TCB50.H80.HY16	80	46
TCB50.H110.HY16	110	46
TCB50.H80.HY18	80	46
TCB50.H110.HY18	110	46
TCB50.H80.HY20	80	46
TCB50.H110.HY20	110	46
TCB50.H100.HY25	100	55
TCB50.H120.HY25	120	55
TCB50.H81.HY32	81	-
TCB50.H100.HY32	100	55
TCB50.H120.HY32	120	55

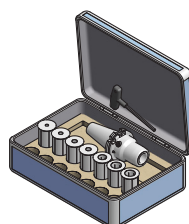
Forza di serraggio
Clamping force

HY6	12Nm
HY8	30Nm
HY10	40Nm
HY12	70Nm
HY14	100Nm
HY16	135Nm
HY18	180Nm
HY20	220Nm
HY25	500Nm
HY32	700Nm

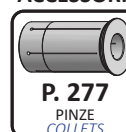
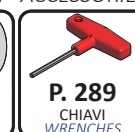
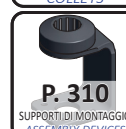
KIT - MANDRINO, CHIAVE E PINZE

KIT - TOOLHOLDERS, WRENCH AND COLLETS

Articolo	Pinze Collets	Ø Pinze Ø Collets	Mandrino con chiave Toolholder with wrench
BX.TCB40.HY12	6SR12	D4 D6 D8 D10	TCB40.H80.HY12
BX.TCB40.HY20	6SR20	D6 D8 D10 D12 D16	TCB40.H80.HY20
BX.TCB40.HY32	6SR32	D6 D8 D10 D12 D16 D20 D25	TCB40.H95.HY32
BX.TCB50.HY12	6SR12	D4 D6 D8 D10	TCB50.H80.HY12
BX.TCB50.HY20	6SR20	D6 D8 D10 D12 D16	TCB50.H80.HY20
BX.TCB50.HY32	6SR32	D6 D8 D10 D12 D16 D20 D25	TCB50.H100.HY32

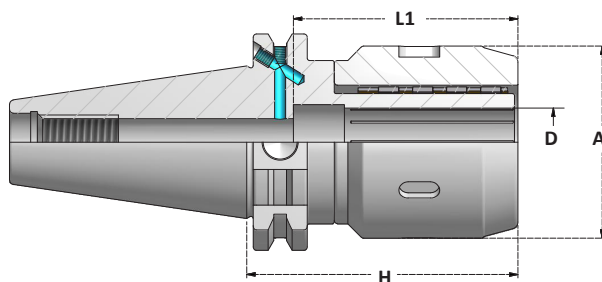


ACCESSORI - ACCESSORIES

**P. 277**
PINZE
COLLETS**P. 289**
CHIAVI
WRENCHES**P. 310**
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES**P. 234**
TIRANTI
PULL STUDS



MANDRINI A FORTE SERRAGGIO POWER MILLING CHUCKS



SCHEDA TECNICA
TECHNICAL DATA
FS | P. 344



G6,3
12000 r.p.m.



0,005



CANALINI
CHANNELS



CHIAVE INCLUSA
WRENCH INCLUDED



ATTACCO A DOPPIO CONTATTO
DOUBLE CONTACT SHANK

	D	A	L1
...FS20	20	66	59,3
...FS32	32	69	71,7

Articolo	H
TCB40.H98.FS20	98
TCB40.H100.FS32	100

Articolo	H
DTC40.H98.FS20	98
DTC40.H100.FS32	100

Articolo	H
TCB50.H98.FS20	98
TCB50.H103.FS32	103

Articolo	H
DTC50.H98.FS20	98
DTC50.H103.FS32	103

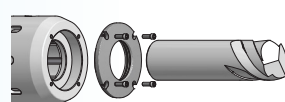
Forza di serraggio
Clamping force
FS20 500Nm
FS32 1000Nm

Serrare la ghiera di bloccaggio
fino al finecorsa
*Tighten the locking nut
up to the limit*

DISCHI DI TENUTA PER MANDRINI A FORTE SERRAGGIO SEALED CAPS FOR POWER MILLING CHUCKS

DISCHI DI TENUTA PER DIAMETRO NOMINALE
SEALED CAPS FOR NOMINAL DIAMETER

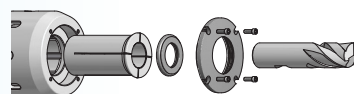
Articolo	D
CFS20.D20	20
CFS32.D32	32



A TENUTA
SEALED

DISCHI DI TENUTA PER L'UTILIZZO DELLE PINZE DI RIDUZIONE
SEALED CAPS FOR REDUCTION COLLETSE USING

Articolo	D	RG Range
CFS20.RG	RG32	D4÷D16
CFS32.RG	RG40	D6÷D25

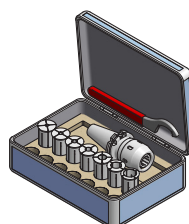


SCHEDA TECNICA
TECHNICAL DATA
FS | P. 344

P. 284
DISCHETTI RG
RG SEALED DISCS

KIT - MANDRINO, CHIAVE E PINZE KIT - TOOLHOLDER, WRENCH AND COLLETS

Articolo	Pinze Collets	Ø Pinze Ø Collets	Mandrino con chiave Toolholder with wrench
BX.TCB40.FS20	4SR20	D6 D8 D10 D12 D16	TCB40.H98.FS20
BX.TCB40.FS32	4SR32	D6 D8 D10 D12 D16 D20 D25	TCB40.H100.FS32
BX.TCB50.FS20	4SR20	D6 D8 D10 D12 D16	TCB50.H98.FS20
BX.TCB50.FS32	4SR32	D6 D8 D10 D12 D16 D20 D25	TCB50.H103.FS32
Articolo	Pinze Collets	Ø Pinze Ø Collets	Mandrino con chiave Toolholder with wrench
BX.DTC40.FS20	4SR20	D6 D8 D10 D12 D16	DTC40.H98.FS20
BX.DTC40.FS32	4SR32	D6 D8 D10 D12 D16 D20 D25	DTC40.H100.FS32
BX.DTC50.FS20	4SR20	D6 D8 D10 D12 D16	DTC50.H98.FS20
BX.DTC50.FS32	4SR32	D6 D8 D10 D12 D16 D20 D25	DTC50.H103.FS32



ACCESSORI - ACCESSORIES



P. 276
PINZE
COLLETS



P. 289
CHIAVI
WRENCHES



P. 310
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES



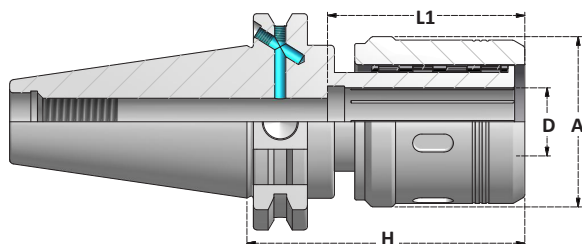
P. 234
TIRANTI
PULL STUDS





MANDRINI A FORTE SERRAGGIO - ECO LINE

POWER MILLING CHUCKS - ECO LINE



G6,3

12000 r.p.m.



0,010



Articolo	H
TCB40.H100.MC20	100
TCB40.H115.MC32	115

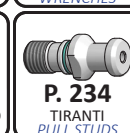
	D	A	L1	Momento torcente consigliato Recommended tightening torque
...MC20	20	58	65	60Nm
...MC32	32	73	80	70Nm

Articolo	H
TCB50.H110.MC20	110
TCB50.H110.MC32	110

Forza di serraggio
Clamping force

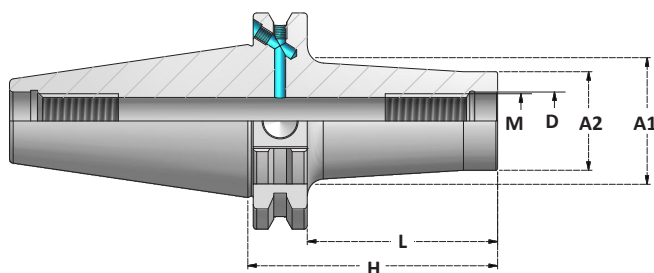
MC20	350Nm
MC32	450Nm

ACCESSORI - ACCESSORIES



**MANDRINI PER FRESE CON ATTACCO FILETTATO**
SCREW IN MILL CHUCKS**G2,5**

25000 r.p.m.

SCHEDA TECNICA
TECHNICAL DATA
CPY | P. 346

	M	D	A2	Momento torcente consigliato <i>Recommended tightening torque</i>
M8CPY	M8	8,5	13	25Nm
M10CPY	M10	10,5	18	40Nm
M12CPY	M12	12,5	21	60Nm
M16CPY	M16	17	29	80Nm

ATTACCO STANDARD
STANDARD SHANK

Articolo	H	L	A1
TCB40.H55.M8CPY	55	35	15
TCB40.H75.M8CPY	75	55	23
TCB40.H95.M8CPY	95	75	23
TCB40.H115.M8CPY	115	95	25
TCB40.H55.M10CPY	55	35	20
TCB40.H75.M10CPY	75	55	25
TCB40.H95.M10CPY	95	75	28
TCB40.H115.M10CPY	115	95	28
TCB40.H145.M10CPY	145	125	34
TCB40.H55.M12CPY	55	35	24
TCB40.H75.M12CPY	75	55	24
TCB40.H95.M12CPY	95	75	31
TCB40.H115.M12CPY	115	95	31
TCB40.H145.M12CPY	145	125	38
TCB40.H175.M12CPY	175	155	42
TCB40.H55.M16CPY	55	35	34
TCB40.H75.M16CPY	75	55	34
TCB40.H95.M16CPY	95	75	34
TCB40.H115.M16CPY	115	95	39
TCB40.H145.M16CPY	145	125	39
TCB40.H175.M16CPY	175	155	39

**ATTACCO A DOPPIO CONTATTO**
DOUBLE CONTACT SHANK

Articolo	H	L	A1
DTCB40.H44.M12CPY	44	25	24
DTCB40.H69.M12CPY	69	50	24
DTCB40.H94.M12CPY	94	75	31
DTCB40.H44.M16CPY	44	25	29
DTCB40.H69.M16CPY	69	50	34
DTCB40.H94M16CPY	94	75	34



Articolo	H	L	A1
TCB50.H85.M8CPY	85	65	23
TCB50.H135.M8CPY	135	115	23
TCB50.H185.M8CPY	185	165	25
TCB50.H85.M10CPY	85	65	28
TCB50.H135.M10CPY	135	115	28
TCB50.H185.M10CPY	185	165	32
TCB50.H85.M12CPY	85	65	32
TCB50.H135.M12CPY	135	115	32
TCB50.H185.M12CPY	185	165	36
TCB50.H85.M16CPY	85	65	36
TCB50.H135.M16CPY	135	115	40
TCB50.H185.M16CPY	185	165	42

ACCESSORI - ACCESSORIES**P. 201**
RIDUZIONI ER
ER ADAPTERS**P. 310**
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES**P. 234**
TIRANTI
PULL STUDS

**DIN ISO 7388 (DIN69871) - TC****MANDRINI PORTAFRESA WELDON - DIN1835-2***END MILL HOLDERS WELDON - DIN1835-2*

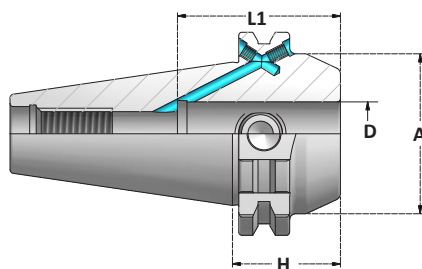
WE	EXTRACORTI
Pag. 85	<i>STUB LENGTH</i>
WE	ATTACCO DOPPIO CONTATTO
Pag. 86	<i>DOUBLE CONTACT SHANK</i>
WE	STANDARD
Pag. 87-88	<i>STANDARD</i>
WE RG	A CENTRATURA REGOLABILE
Pag. 89	<i>ADJUSTABLE RUNOUT</i>
WE C	CON CANALI DI LUBRIFICAZIONE
Pag. 90	<i>WITH COOLANT CHANNELS</i>
WHN	WHISTLE NOTCH - GRANI INCLINATI A 2° (DIN 1835-2 Form E)
Pag. 91	<i>WHISTLE NOTCH - 2° INCLINED SCREWS (DIN 1835-2 Form E)</i>

TC

WE

DIN 1835-2 Form B**MANDRINI PORTAFRESA WELDON - EXTRACORTI***END MILL HOLDERS WELDON - STUB LENGTH***G6,3**

15000 r.p.m.

SCHEDA TECNICA
TECHNICAL DATA
WE P. 347

Articolo	H	A	Grano 1 Screw 1	Grano 2 Screw 2	Fig
TC30.H35.WE12	35	42	GR.WEC12-14	/	1
TC30.H35.WE16	35	44	GR.WEC16	/	1
TC30.H35.WE20	35	45	GR.WEC25-32	/	1



Articolo	H	A	Grano 1 Screw 1	Grano 2 Screw 2	Fig
TCB40.H35.WE16	35	44,5	GR.WEC16	/	1
TCB40.H35.WE20	35	44,5	GR.WEC20	/	1
TCB40.H35.WE25	35	44,5	GR.WEC20	/	1
TCB40.H60.WE25	60	49	GR.WEC25-32	GR.WEC25	2
TCB40.H40.WE32	40	43,7	GR.WEC25-32	/	1
TCB40.H70.WE32	70	72	GR.WEC25-32	GR.WE32-40	2



Articolo	H	A	Grano 1 Screw 1	Grano 2 Screw 2	Fig
TCB50.H35.WE16	35	48	GR.WE16-18	/	1
TCB50.H35.WE20	35	52	GR.WE20	/	1
TCB50.H35.WE25	35	72	GR.WE25	/	1
TCB50.H35.WE32	35	72	GR.WE32-40	/	1
TCB50.H35.WE40	35	80	GR.WEC32-40	/	1

Per utensili con gambo secondo
normativa **DIN1835-1 Form B.***For tools with shank according to
norm DIN1835-1 Form B*

	D	L1
...WE12	12	46
...WE16	16	49
...WE20	20	51
...WE25	25	59
...WE32	32	63
...WE40	40	73

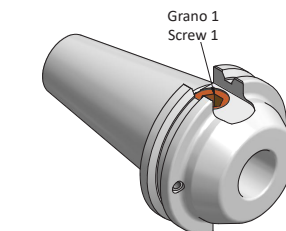


Fig 1

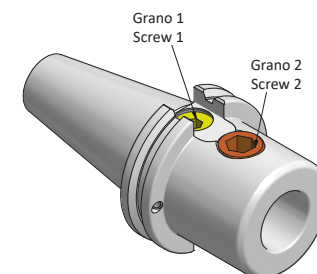
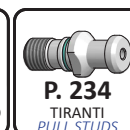
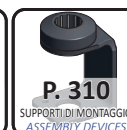
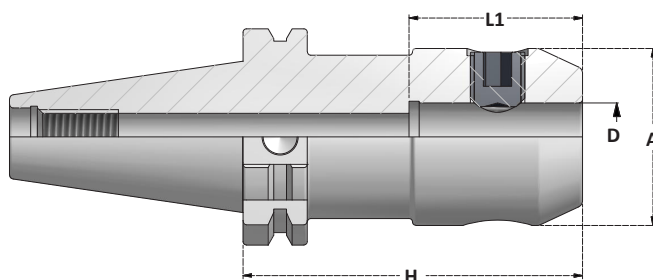
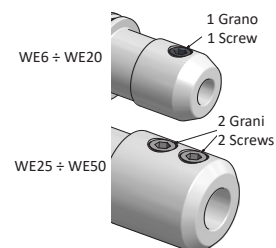


Fig 2

ACCESSORI - ACCESSORIES

**MANDRINI A DOPPIO CONTATTO PORTAFRESE WELDON**
DOUBLE CONTACT END MILL HOLDERS WELDON**G2,5**
25000 r.p.m.SCHEDA TECNICA
TECHNICAL DATA
WE P. 347**ATTACCO A DOPPIO CONTATTO**
DOUBLE CONTACT SHANK

Articolo	H
DTC40.H50.WE6	50
DTC40.H100.WE6	100
DTC40.H50.WE8	50
DTC40.H100.WE8	100
DTC40.H50.WE10	50
DTC40.H100.WE10	100
DTC40.H50.WE12	50
DTC40.H100.WE12	100
DTC40.H63.WE16	63
DTC40.H100.WE16	100
DTC40.H63.WE20	63
DTC40.H100.WE20	100
DTC40.H100.WE25	100
DTC40.H100.WE32	100
DTC40.H120.WE40	120

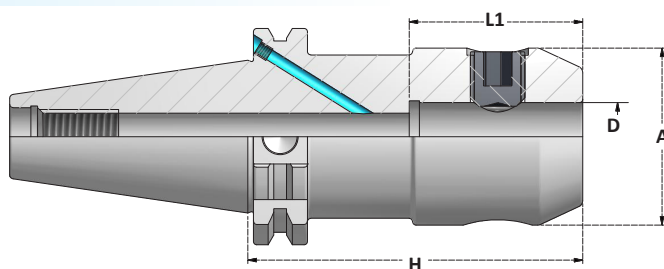
ATTACCO A DOPPIO CONTATTO
DOUBLE CONTACT SHANK

Articolo	H
DTC50.H63.WE6	63
DTC50.H63.WE8	63
DTC50.H63.WE10	63
DTC50.H63.WE12	63
DTC50.H63.WE16	63
DTC50.H63.WE20	63
DTC50.H80.WE25	80
DTC50.H100.WE32	100
DTC50.H112.WE40	112
DTC50.H130.WE50	130

	D	L1	A	Grano Screw
...WE6	6	37	25	GR.WE6
...WE8	8	37	28	GR.WE8
...WE10	10	41	35	GR.WE10
...WE12	12	46	42	GR.WE12-14
...WE16	16	49	48	GR.WE16-18
...WE20	20	51	52	GR.WE20

	D	L1	A	Grani Screws
..WE25	25	59	65	2x GR.WE25
..WE32	32	63	72	2x GR.WE32-40
..WE40	40	73	80	2x GR.WE32-40
..WE50	50	83	100	2x GR.WE50



**MANDRINI PORTAFRESA WELDON**
END MILL HOLDERS WELDONSCHEDA TECNICA
TECHNICAL DATA
WE P. 347

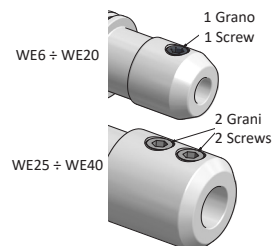
Articolo	H
TC30.H50.WE6	50
TC30.H100.WE6	100
TC30.H50.WE8	50
TC30.H100.WE8	100
TC30.H50.WE10	50
TC30.H100.WE10	100
TC30.H50.WE12	50
TC30.H100.WE12	100
TC30.H50.WE14	50
TC30.H63.WE16	63
TC30.H100.WE16	100
TC30.H63.WE18	63
TC30.H63.WE20	63
TC30.H100.WE20	100



Articolo	H
TCB40.H50.WE6	50
TCB40.H100.WE6	100
TCB40.H130.WE6	130
TCB40.H160.WE6	160
TCB40.H200.WE6	200
TCB40.H50.WE8	50
TCB40.H100.WE8	100
TCB40.H130.WE8	130
TCB40.H160.WE8	160
TCB40.H200.WE8	200
TCB40.H50.WE10	50
TCB40.H100.WE10	100
TCB40.H130.WE10	130
TCB40.H160.WE10	160
TCB40.H200.WE10	200
TCB40.H50.WE12	50
TCB40.H100.WE12	100
TCB40.H130.WE12	130
TCB40.H160.WE12	160
TCB40.H200.WE12	200
TCB40.H50.WE14	50
TCB40.H100.WE14	100
TCB40.H130.WE14	130
TCB40.H160.WE14	160
TCB40.H200.WE14	200



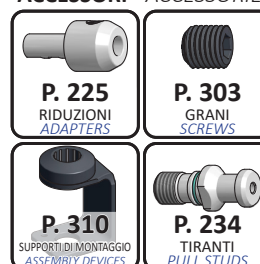
Articolo	H
TCB40.H63.WE16	63
TCB40.H100.WE16	100
TCB40.H130.WE16	130
TCB40.H160.WE16	160
TCB40.H200.WE16	200
TCB40.H63.WE18	63
TCB40.H100.WE18	100
TCB40.H130.WE18	130
TCB40.H160.WE18	160
TCB40.H200.WE18	200
TCB40.H63.WE20	63
TCB40.H100.WE20	100
TCB40.H130.WE20	130
TCB40.H160.WE20	160
TCB40.H200.WE20	200
TCB40.H100.WE25	100
TCB40.H130.WE25	130
TCB40.H160.WE25	160
TCB40.H200.WE25	200
TCB40.H100.WE32	100
TCB40.H130.WE32	130
TCB40.H160.WE32	160
TCB40.H200.WE32	200
TCB40.H120.WE40	120

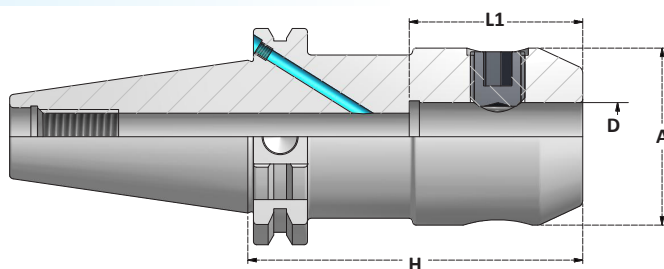


	D	L1	A	Grano Screw
...WE6	6	37	25	GR.WE6
...WE8	8	37	28	GR.WE8
...WE10	10	41	35	GR.WE10
...WE12	12	46	42	GR.WE12-14
...WE14	14	46	44	GR.WE12-14
...WE16	16	49	48	GR.WE16-18
...WE18	18	49	50	GR.WE16-18
...WE20	20	51	52	GR.WE20

	D	L1	A	Grani Screws
..WE25	25	59	65	2x GR.WE25
..WE32	32	63	72	2x GR.WE32-40
..WE40	40	73	80	2x GR.WE32-40

ACCESSORI - ACCESSORIES

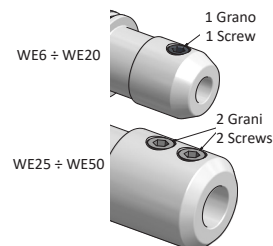


**MANDRINI PORTAFRESA WELDON**
END MILL HOLDERS WELDONSCHEDA TECNICA
TECHNICAL DATA
WE P. 347

Articolo	H
TCB50.H63.WE6	63
TCB50.H100.WE6	100
TCB50.H130.WE6	130
TCB50.H160.WE6	160
TCB50.H200.WE6	200
TCB50.H63.WE8	63
TCB50.H100.WE8	100
TCB50.H130.WE8	130
TCB50.H160.WE8	160
TCB50.H200.WE8	200
TCB50.H63.WE10	63
TCB50.H100.WE10	100
TCB50.H130.WE10	130
TCB50.H160.WE10	160
TCB50.H200.WE10	200
TCB50.H63.WE12	63
TCB50.H100.WE12	100
TCB50.H130.WE12	130
TCB50.H160.WE12	160
TCB50.H200.WE12	200
TCB50.H63.WE14	63
TCB50.H100.WE14	100
TCB50.H130.WE14	130
TCB50.H160.WE14	160
TCB50.H200.WE14	200
TCB50.H63.WE16	63
TCB50.H100.WE16	100
TCB50.H130.WE16	130
TCB50.H160.WE16	160
TCB50.H200.WE16	200
TCB50.H63.WE18	63
TCB50.H100.WE18	100
TCB50.H130.WE18	130
TCB50.H160.WE18	160
TCB50.H200.WE18	200
TCB50.H63.WE20	63
TCB50.H100.WE20	100
TCB50.H130.WE20	130
TCB50.H160.WE20	160
TCB50.H200.WE20	200
TCB50.H250.WE20	250



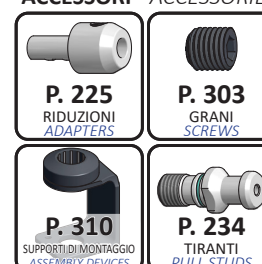
Articolo	H
TCB50.H80.WE25	80
TCB50.H100.WE25	100
TCB50.H130.WE25	130
TCB50.H160.WE25	160
TCB50.H200.WE25	200
TCB50.H250.WE25	250
TCB50.H100.WE32	100
TCB50.H130.WE32	130
TCB50.H160.WE32	160
TCB50.H200.WE32	200
TCB50.H250.WE32	250
TCB50.H112.WE40	112
TCB50.H130.WE40	130
TCB50.H160.WE40	160
TCB50.H200.WE40	200
TCB50.H130.WE50	130

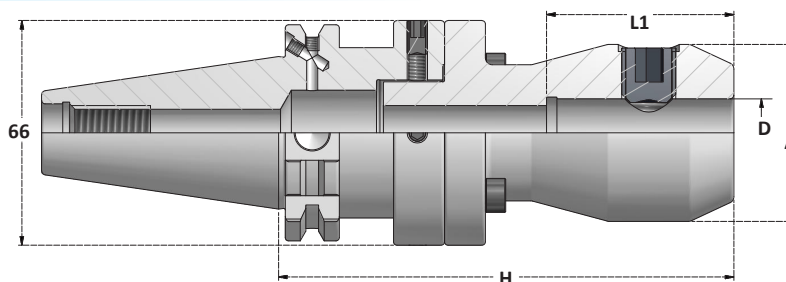


	D	L1	A	Grano Screw
...WE6	6	37	25	GR.WE6
...WE8	8	37	28	GR.WE8
...WE10	10	41	35	GR.WE10
...WE12	12	46	42	GR.WE12-14
...WE14	14	46	44	GR.WE12-14
...WE16	16	49	48	GR.WE16-18
...WE18	18	49	50	GR.WE16-18
...WE20	20	51	52	GR.WE20

	D	L1	A	Grani Screws
..WE25	25	59	65	2x GR.WE25
..WE32	32	63	72	2x GR.WE32-40
..WE40	40	73	80	2x GR.WE32-40
..WE50	50	83	100	2x GR.WE50

ACCESSORI - ACCESSORIES



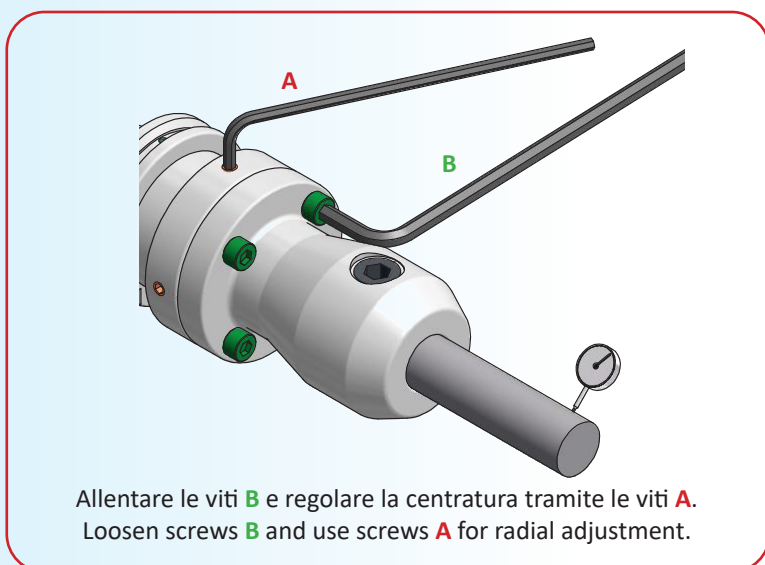
**MANDRINI PORTAFRESA WELDON A CENTRATURA REGOLABILE**
RUNOUT ADJUSTABLE END MILL HOLDERS WELDON**G6,3**
15000r.p.m.SCHEDA TECNICA
TECHNICAL DATA
WE P. 347

Articolo	H
TCB40.H100.WE6RG	100
TCB40.H100.WE8RG	100
TCB40.H100.WE10RG	100
TCB40.H110.WE12RG	110
TCB40.H110.WE14RG	110
TCB40.H130.WE16RG	130
TCB40.H130.WE18RG	130
TCB40.H135.WE20RG	135

	D	L1	A	Grano Screw
...WE6	6	37	25	GR.WE6
...WE8	8	37	28	GR.WE8
...WE10	10	41	35	GR.WE10
...WE12	12	46	42	GR.WE12-14
...WE14	14	46	44	GR.WE12-14
...WE16	16	49	48	GR.WE16-18
...WE18	18	49	50	GR.WE16-18
...WE20	20	51	52	GR.WE20



Articolo	H
TCB50.H100.WE6RG	100
TCB50.H100.WE8RG	100
TCB50.H100.WE10RG	100
TCB50.H110.WE12RG	110
TCB50.H110.WE14RG	110
TCB50.H130.WE16RG	130
TCB50.H130.WE18RG	130
TCB50.H135.WE20RG	135



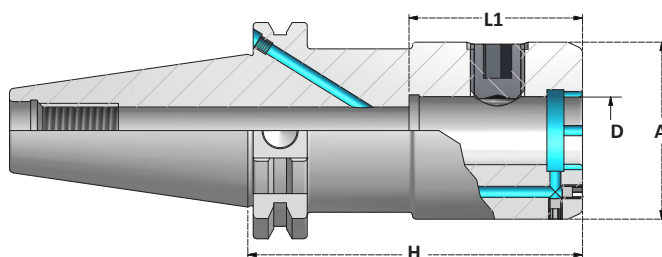
ACCESSORI - ACCESSORIES





MANDRINI PORTAFRESA WELDON CON CANALI DI LUBRIFICAZIONE END MILL HOLDERS WELDON WITH COOLANT CHANNELS

G6,3
15000 r.p.m.



SCHEDA TECNICA
TECHNICAL DATA
WE P. 347



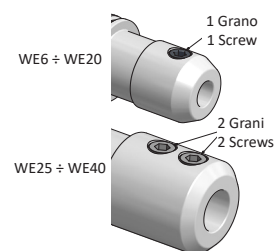
Articolo	H
TCB40.H65.WE6C	65
TCB40.H65.WE8C	65
TCB40.H65.WE10C	65
TCB40.H65.WE12C	65
TCB40.H65.WE14C	65
TCB40.H65.WE16C	65
TCB40.H65.WE18C	65
TCB40.H65.WE20C	65
TCB40.H100.WE25C	100
TCB40.H100.WE32C	100
TCB40.H120.WE40C	120

	D	L1	A	Grano Screw
...WE6	6	37	25	GR.WE6
...WE8	8	37	28	GR.WE8
...WE10	10	41	35	GR.WE10
...WE12	12	46	42	GR.WE12-14
...WE14	14	46	44	GR.WE12-14
...WE16	16	49	48	GR.WE16-18
...WE18	18	49	50	GR.WE16-18
...WE20	20	51	52	GR.WE20

	D	L1	A	Grani Screws
..WE25	25	59	65	2x GR.WE25
..WE32	32	63	72	2x GR.WE32-40
..WE40	40	73	80	2x GR.WE32-40

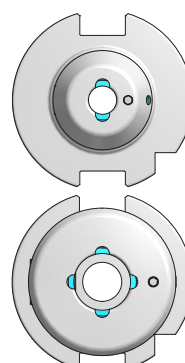
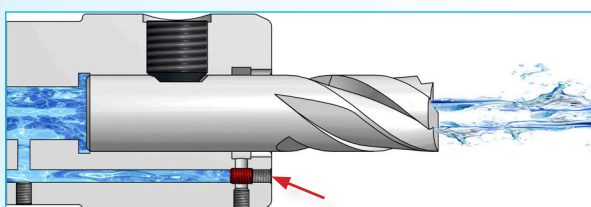
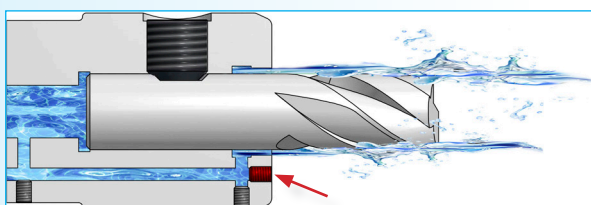


Articolo	H
TCB50.H63.WE6C	63
TCB50.H63.WE8C	63
TCB50.H63.WE10C	63
TCB50.H63.WE12C	63
TCB50.H63.WE14C	63
TCB50.H63.WE16C	63
TCB50.H63.WE18C	63
TCB50.H63.WE20C	63
TCB50.H100.WE25C	100
TCB50.H100.WE32C	100
TCB50.H100.WE40C	100



Regolando il grano si può scegliere se indirizzare il liquido refrigerante ai fori del mandrino o attraverso l'utensile.

Lock screw for coolant through tool.
Unlock screw for coolant through toolholder.



WE6C ÷ WE14C

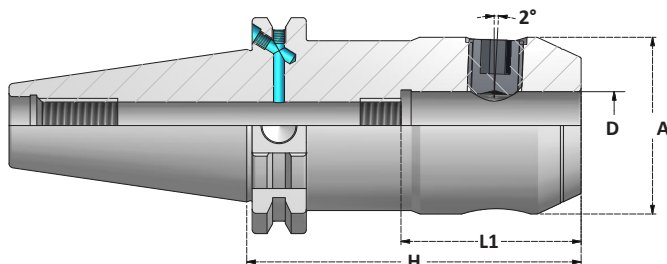
WE16C ÷ WE40C

ACCESSORI - ACCESSORIES



**MANDRINI PORTAFRESA WHISTLE NOTCH**
END MILL HOLDERS WHISTLE NOTCH**G6,3**

15000r.p.m.

SCHEDA TECNICA
TECHNICAL DATA
WE P. 347

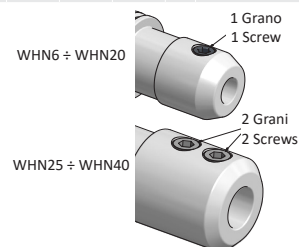
Articolo	H
TCB40.H50.WHN6	50
TCB40.H50.WHN8	50
TCB40.H50.WHN10	50
TCB40.H50.WHN12	50
TCB40.H50.WHN14	50
TCB40.H63.WHN16	63
TCB40.H63.WHN18	63
TCB40.H63.WHN20	63
TCB40.H100.WHN25	100
TCB40.H100.WHN32	100



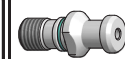
Articolo	H
TCB50.H63.WHN6	63
TCB50.H63.WHN8	63
TCB50.H63.WHN10	63
TCB50.H63.WHN12	63
TCB50.H63.WHN14	63
TCB50.H63.WHN16	63
TCB50.H63.WHN18	63
TCB50.H63.WHN20	63
TCB50.H80.WHN25	80
TCB50.H100.WHN32	100
TCB50.H112.WHN40	112

	D	L1	A	Grano Screw
...WHN6	6	37	25	GR.WE6
...WHN8	8	37	28	GR.WE8
...WHN10	10	41	35	GR.WE10
...WHN12	12	46	42	GR.WE12-14
...WHN14	14	46	44	GR.WE12-14
...WHN16	16	49	48	GR.WE16-18
...WHN18	18	49	50	GR.WE16-18
...WHN20	20	51	52	GR.WE20

	D	L	A	Grani Screws
..WHN25	25	59	65	2x GR.WE25
..WHN32	32	63	72	2x GR.WE32-40
..WHN40	40	73	80	2x GR.WE32-40



ACCESSORI - ACCESSORIES

**P. 303**
GRANI
SCREWS**P. 310**
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES**P. 234**
TIRANTI
PULL STUDS

**DIN ISO 7388 (DIN69871) - TC****MANDRINI PORTAFRESA FISSI**
SHELL MILL HOLDERS

D SAV	ANTIVIBRANTI
Pag. 92	<i>DAMPING VIBRATIONS</i>
D S	ATTACCO DOPPIO CONTATTO
Pag. 93	<i>DOUBLE CONTACT SHANK</i>
D S	STANDARD
Pag. 94-95	<i>STANDARD</i>

TC

D SAV

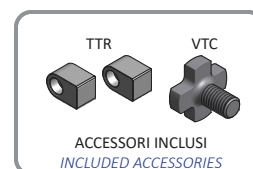
MANDRINI PORTAFRESA FISSI ANTIVIBRANTI
DAMPING VIBRATIONS SHELL MILL HOLDERS

SCHEDA TECNICA TECHNICAL DATA
D S P. 349



Articolo	H
TCB50.H350.D22SAV	350
TCB50.H400.D22SAV	400
TCB50.H500.D22SAV	500
TCB50.H350.D27SAV	350
TCB50.H400.D27SAV	400
TCB50.H500.D27SAV	500

	D	A	L1	TTR	VTC
...D22S	22	48	19	TTR.D22	VTC.D22
...D27S	27	58	21	TTR.D27	VTC.D27

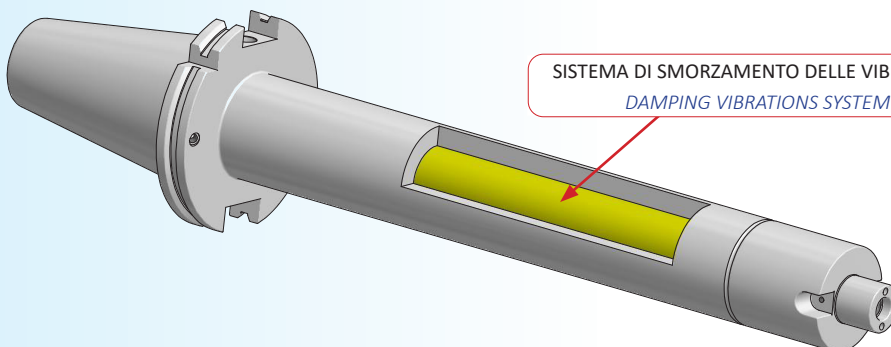


I mandrini portafresa antivibranti sono dotati di un sistema interno che smorza le vibrazioni trasmesse dalla fresa all'attacco. In questo modo viene prolungata la durata dell'utensile e del mandrino macchina.

Il sistema antivibrante consente di lavorare con sporgenze molto lunghe mantenendo parametri di taglio elevati. Le lavorazioni sono più silenziose e stabili, e permettono di ottenere una migliore finitura superficiale.

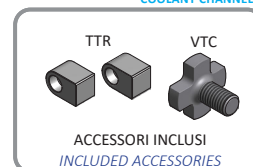
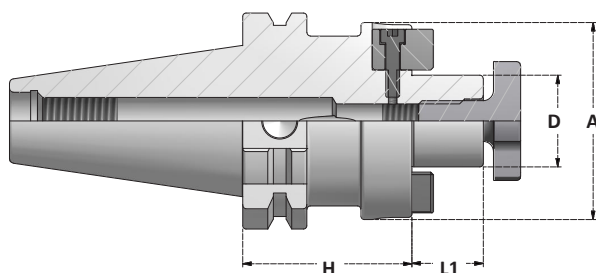
Damping vibrations shell mill holders have an internal system that dampens the vibrations transmitted from the mill to the shank. In this way, the life of the tool and the machine spindle is extended.

Damping vibrations system allows to work with very long overhangs while maintaining high cutting parameters. The processes are quieter and more stable, and allow to obtain a better surface finish.

**ACCESSORI - ACCESSORIES**

**MANDRINI A DOPPIO CONTATTO PORTAFRESA FISSI**
DOUBLE CONTACT SHELL MILL HOLDERS**G2,5**

25000 r.p.m.

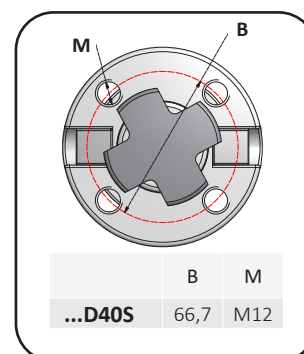
CANALI
PER REFRIGERANTE
COOLANT CHANNELSACCESSORI INCLUSI
INCLUDED ACCESSORIESSCHEDA TECNICA
TECHNICAL DATA
D S | P. 349**ATTACCO A DOPPIO CONTATTO**
DOUBLE CONTACT SHANK

Articolo	H
DTC40.H45.D16S	45
DTC40.H100.D16S	100
DTC40.H160.D16S	160
DTC40.H45.D22S	45
DTC40.H100.D22S	100
DTC40.H160.D22S	160
DTC40.H50.D27S	50
DTC40.H100.D27S	100
DTC40.H160.D27S	160
DTC40.H50.D32S	50
DTC40.H100.D32S	100
DTC40.H160.D32S	160
DTC40.H60.D40S	60

ATTACCO A DOPPIO CONTATTO
DOUBLE CONTACT SHANK

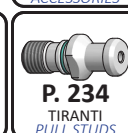
Articolo	H
DTC50.H45.D16S	45
DTC50.H100.D16S	100
DTC50.H160.D16S	160
DTC50.H200.D16S	200
DTC50.H45.D22S	45
DTC50.H100.D22S	100
DTC50.H160.D22S	160
DTC50.H200.D22S	200
DTC50.H250.D22S	250
DTC50.H45.D27S	45
DTC50.H100.D27S	100
DTC50.H160.D27S	160
DTC50.H200.D27S	200
DTC50.H250.D27S	250
DTC50.H50.D32S	50
DTC50.H50.D40S	50

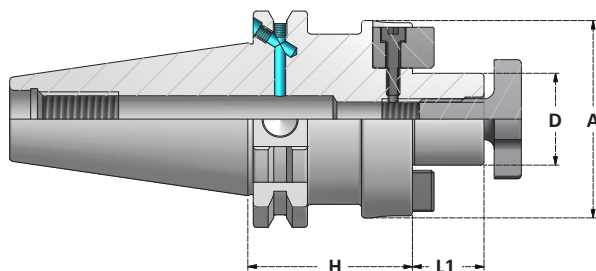
	D	A	L1	TTR	VTC
...D16S	16	38	17	TTR.D16	VTC.D16
...D22S	22	48	19	TTR.D22	VTC.D22
...D27S	27	58	21	TTR.D27	VTC.D27
...D32S	32	78	24	TTR.D32	VTC.D32
...D40S	40	88	27	TTR.D40	VTC.D40



	B	M
...D40S	66,7	M12

ACCESSORI - ACCESSORIES

**P. 304**
ACCESSORI
ACCESSORIES**P. 310**
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES**P. 234**
TIRANTI
PULL STUDS

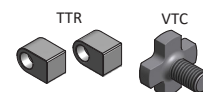
**MANDRINI PORTAFRESA FISSI**
SHELL MILL HOLDERS

SCHEDA TECNICA TECHNICAL DATA	
D S	P. 349

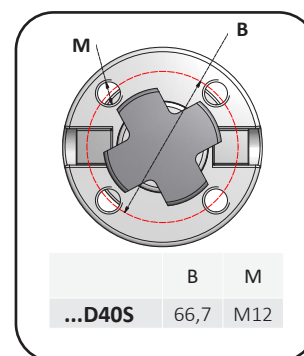


Articolo	H
TCB40.H35.D16S	35
TCB40.H45.D16S	45
TCB40.H100.D16S	100
TCB40.H130.D16S	130
TCB40.H160.D16S	160
TCB40.H200.D16S	200
TCB40.H35.D22S	35
TCB40.H45.D22S	45
TCB40.H100.D22S	100
TCB40.H130.D22S	130
TCB40.H160.D22S	160
TCB40.H200.D22S	200
TCB40.H35.D27S	35
TCB40.H50.D27S *	50
TCB40.H100.D27S	100
TCB40.H130.D27S	130
TCB40.H160.D27S	160
TCB40.H200.D27S	200
TCB40.H55.D32S	55
TCB40.H100.D32S	100
TCB40.H130.D32S	130
TCB40.H160.D32S	160
TCB40.H200.D32S	200
TCB40.H60.D40S	60
TCB40.H100.D40S	100
TCB40.H130.D40S	130
TCB40.H160.D40S	160
TCB40.H200.D40S	200

* A = 50mm

**G6,3**
15000 r.p.m.CANALI
PER REFRIGERANTE
COOLANT CHANNELSACCESSORI INCLUSI
INCLUDED ACCESSORIES

	D	A	L1	TTR	VTC
...D16S	16	38	17	TTR.D16	VTC.D16
...D22S	22	48	19	TTR.D22	VTC.D22
...D27S	27	58	21	TTR.D27	VTC.D27
...D32S	32	78	24	TTR.D32	VTC.D32
...D40S	40	88	27	TTR.D40	VTC.D40



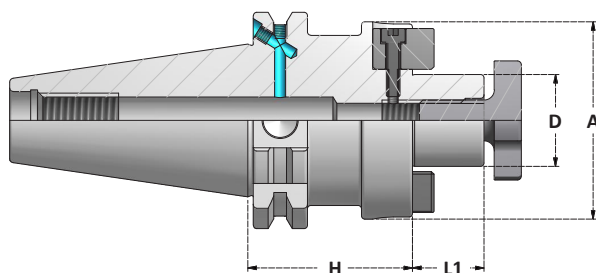
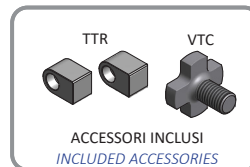
ACCESSORI - ACCESSORIES

**P. 304**
ACCESSORI
ACCESSORIES**P. 310**
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES**P. 234**
TIRANTI
PULL STUDS

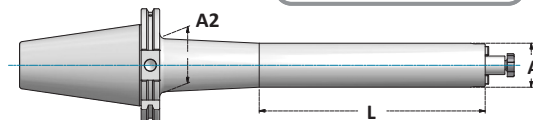


MANDRINI PORTAFRESA FISSI

SHELL MILL HOLDERS

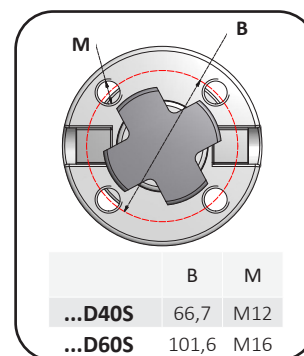


SCHEDA TECNICA
TECHNICAL DATA
D S P. 349



Articolo	H	L	A2
TCB50.H35.D16S	35	-	-
TCB50.H45.D16S	45	-	-
TCB50.H75.D16S	75	-	-
TCB50.H100.D16S	100	-	-
TCB50.H130.D16S	130	-	-
TCB50.H160.D16S	160	-	-
TCB50.H200.D16S	200	-	-
TCB50.H250.D16S	250	-	-
TCB50.H300.D16S	* 300	200	50
TCB50.H350.D16S	* 350	230	50
TCB50.H35.D22S	35	-	-
TCB50.H45.D22S	45	-	-
TCB50.H75.D22S	75	-	-
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	300	54
TCB50.H35.D27S	35	-	-
TCB50.H45.D27S	45	-	-
TCB50.H75.D27S	75	-	-
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	35	-	-
TCB50.H50.D32S	50	-	-
TCB50.H75.D32S	75	-	-
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	-	-

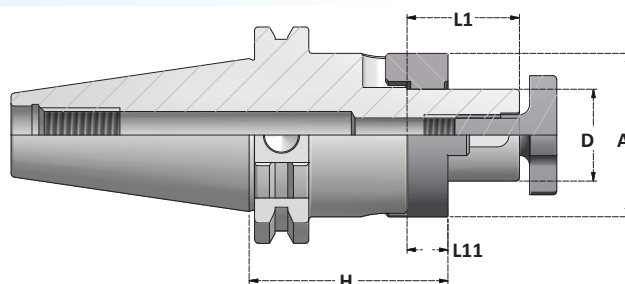
	D	A	L1	TTR	VTC
...D16S	16	38	17	TTR.D16	VTC.D16
...D22S	22	48	19	TTR.D22	VTC.D22
...D27S	27	58	21	TTR.D27	VTC.D27
...D32S	32	78	24	TTR.D32	VTC.D32
...D40S	40	88	27	TTR.D40	VTC.D40
...D60S	60	29	40	TTR.D60	VTC.D60



Articolo	H
TCB50.H50.D40S	50
TCB50.H75.D40S	75
TCB50.H100.D40S	100
TCB50.H130.D40S	130
TCB50.H160.D40S	160
TCB50.H200.D40S	200
TCB50.H70.D60S	70

ACCESSORI - ACCESSORIES



**MANDRINI PORTAFRESA COMBINATI**
COMBI SHELL MILL HOLDERS

SCHEDA TECNICA
TECHNICAL DATA
D C | P. 348

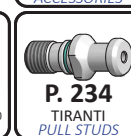


Articolo	H
TC30.H50.D16C	50
TC30.H50.D22C	50
TC30.H55.D27C	55
TC30.H60.D32C	60

Articolo	H
TC40.H55.D16C	55
TC40.H100.D16C	100
TC40.H130.D16C	130
TC40.H160.D16C	160
TC40.H200.D16C	200
TC40.H55.D22C	55
TC40.H100.D22C	100
TC40.H130.D22C	130
TC40.H160.D22C	160
TC40.H200.D22C	200
TC40.H55.D27C	55
TC40.H100.D27C	100
TC40.H130.D27C	130
TC40.H160.D27C	160
TC40.H200.D27C	200
TC40.H60.D32C	60
TC40.H100.D32C	100
TC40.H130.D32C	130
TC40.H160.D32C	160
TC40.H200.D32C	200
TC40.H60.D40C	60
TC40.H100.D40C	100
TC40.H130.D40C	130
TC40.H160.D40C	160
TC40.H200.D40C	200

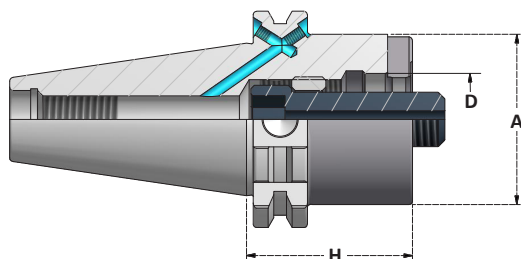
Articolo	H
TC50.H55.D16C	55
TC50.H100.D16C	100
TC50.H130.D16C	130
TC50.H160.D16C	160
TC50.H55.D22C	55
TC50.H100.D22C	100
TC50.H130.D22C	130
TC50.H160.D22C	160
TC50.H55.D27C	55
TC50.H100.D27C	100
TC50.H130.D27C	130
TC50.H160.D27C	160
TC50.H55.D32C	55
TC50.H100.D32C	100
TC50.H130.D32C	130
TC50.H160.D32C	160
TC50.H55.D40C	55
TC50.H100.D40C	100
TC50.H130.D40C	130
TC50.H160.D40C	160

	D	A	L1	L11	ATR	VTC	CHV
D16C	16	32	27	10	ATR.D16	VTC.D16	CHV.D16
D22C	22	40	31	12	ATR.D22	VTC.D22	CHV.D22
D27C	27	48	33	12	ATR.D27	VTC.D27	CHV.D27
D32C	32	58	38	14	ATR.D32	VTC.D32	CHV.D32
D40C	40	70	41	14	ATR.D40	VTC.D40	CHV.D40

ACCESSORI - ACCESSORIES



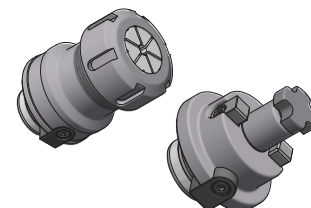
MANDRINI MODULARI TIPO VARILOCK
MODULAR TOOLHOLDERS VARILOCK TYPE



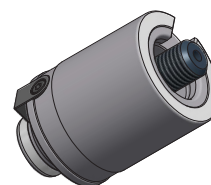
Articolo	A	H	D	Attacco
TCB40.H27.MD50	50	27	27,3 / 27	MD50
TCB40.H50.MD50	50	50	27,3 / 27	MD50
TCB40.H27.MD63	63	27	32,3 / 32	MD63
TCB40.H50.MD63	63	50	32,3 / 32	MD63



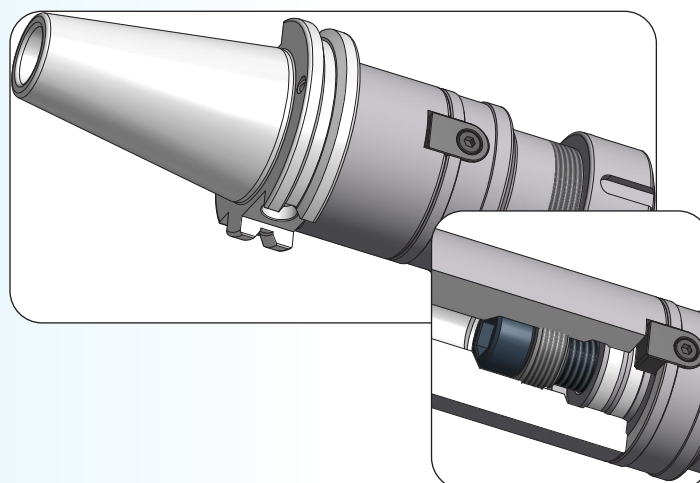
Articolo	A	H	D	Attacco
TCB50.H27.MD50	50	27	27,3 / 27	MD50
TCB50.H50.MD50	50	50	27,3 / 27	MD50
TCB50.H27.MD63	63	27	32,3 / 32	MD63
TCB50.H50.MD63	63	50	32,3 / 32	MD63
TCB50.H27.MD80	80	27	32,3 / 32	MD80
TCB50.H50.MD80	80	50	32,3 / 32	MD80



INSERZIONI PORTAUTENSILI
TOOLHOLDER ADAPTERS
PAG. 202



RIDUZIONI E PROLUNGHE
EXTENSIONS AND REDUCTIONS
PAG. 203

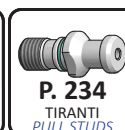


ACCESSORI - ACCESSORIES



P. 310

SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES



P. 234

TIRANTI
PULL STUDS



**MANDRINI DI RIDUZIONE CONO MORSE PER PUNTE**
MORSE TAPER ADAPTERS FOR DRILLS

Fig.1

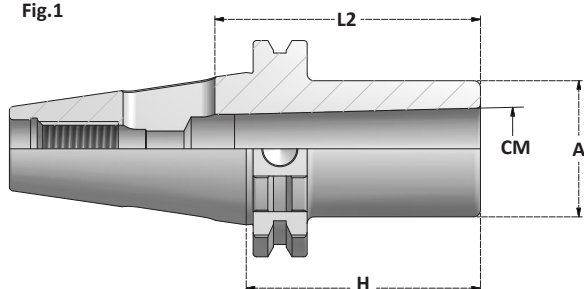
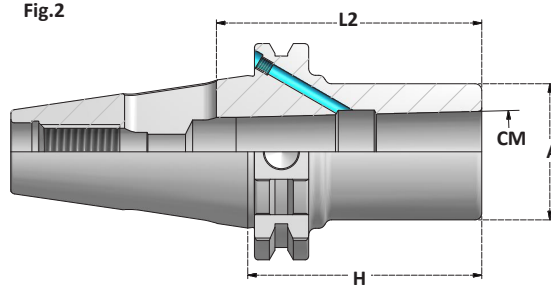


Fig.2



Articolo	H	Fig
TC40.H50.CM1P	50	1
TC40.H120.CM1P	120	3
TC40.H50.CM2P	50	1
TC40.H120.CM2P	120	3
TC40.H70.CM3P	70	1
TC40.H135.CM3P	135	3
TC40.H95.CM4P	95	1
TC40.H165.CM4P	165	3

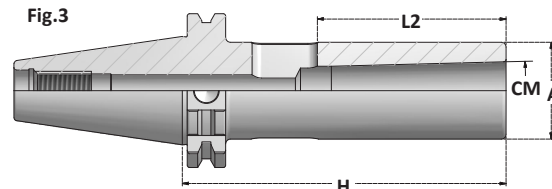
SCHEDA TECNICA
TECHNICAL DATA
CM P | P. 350

	CM	A	L2
...CM1P	1	25	56
...CM2P	2	32	67
...CM3P	3	40	84
...CM4P	4	48	107
...CM5P	5	63	135



Articolo	H	Fig
TC50.H45.CM1P	45	1
TC50.H120.CM1P	120	3
TC50.H60.CM2P	60	1
TC50.H135.CM2P	135	3
TC50.H65.CM3P	65	1
TC50.H155.CM3P	155	3
TC50.H95.CM4P	95	1
TC50.H180.CM4P	180	3
TC50.H105.CM5P	105	1
TC50.H215.CM5P	215	3

Fig.3



**PER UTENSILI DIN228B
CON TENONE**

*FOR TOOLS DIN228B
WITH TANG*



Articolo	H	Fig
TCB40.H50.CM2P	50	2
TCB40.H70.CM3P	70	2
TCB40.H95.CM4P	95	2



Articolo	H	Fig
TCB50.H60.CM2P	60	2
TCB50.H65.CM3P	65	2
TCB50.H95.CM4P	95	2
TCB50.H120.CM5P	120	2

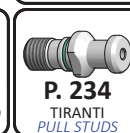
ACCESSORI - ACCESSORIES



P. 308
ESTRATTORI
PULLERS

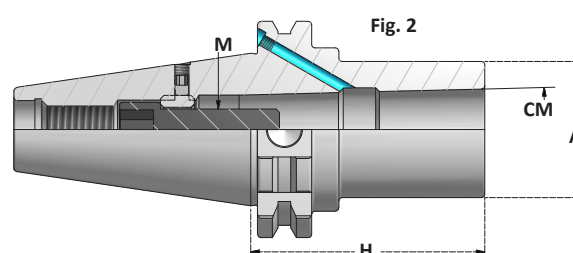
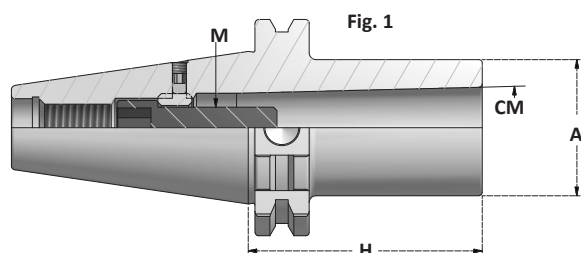


P. 310
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES



P. 234
TIRANTI
PULL STUDS



**MANDRINI DI RIDUZIONE CONO MORSE PER FRESE**
MORSE TAPER ADAPTERS FOR THREADED MILLS

Articolo	H	Fig
TC40.H50.CM1FV	50	1
TC40.H50.CM2FV	50	1
TC40.H70.CM3FV	70	1
TC40.H95.CM4FV	95	1

SCHEDA TECNICA
TECHNICAL DATA
CMFV | P. 351

	CM	A	M
...CM1FV	1	25	M6
...CM2FV	2	32	M10
...CM3FV	3	40	M12
...CM4FV	4	48	M16
...CM5FV	5	63	M20



Articolo	H	Fig
TC50.H45.CM1FV	45	1
TC50.H60.CM2FV	60	1
TC50.H100.CM2FV	100	1
TC50.H65.CM3FV	65	1
TC50.H120.CM3FV	120	1
TC50.H95.CM4FV	95	1
TC50.H170.CM4FV	170	1
TC50.H120.CM5FV	120	1

**PER UTENSILI DIN228A
CON FILETTO**

*FOR TOOLS DIN228A
WITH THREAD*

**FORNITI CON VITE SENZA FORO
PER IL PASSAGGIO DEL
REFRIGERANTE**

*SUPPLIED WITH SCREW WITHOUT
COOLANT THROUGH*

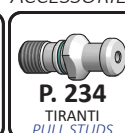
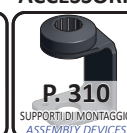


Articolo	H	Fig
TCB40.H50.CM2FV	50	2
TCB40.H70.CM3FV	70	2
TCB40.H95.CM4FV	95	2



Articolo	H	Fig
TCB50.H60.CM2FV	60	2
TCB50.H65.CM3FV	65	2
TCB50.H95.CM4FV	95	2
TCB50.H120.CM5FV	120	2

ACCESSORI - ACCESSORIES





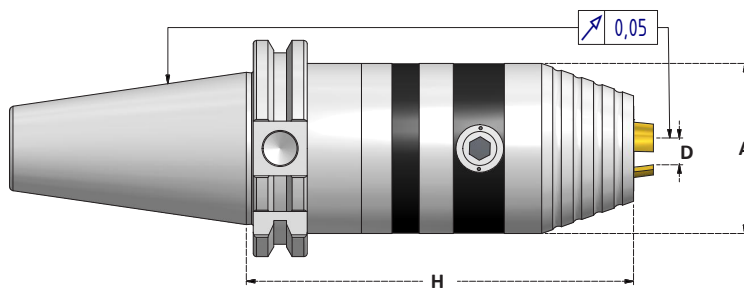
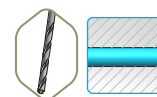
DIN ISO 7388 (DIN69871)

TC

CP

MANDRINI PORTAPUNTA CON PASSAGGIO DEL REFRIGERANTE
ROTAZIONE DESTRA E SINISTRA

DRILL CHUCKS WITH COOLANT THROUGH - RIGHT AND LEFT ROTATION



Articolo	H
TC40.H89.CP8S	89
TC40.H115.CP13S	115
TC40.H120.CP16S	120

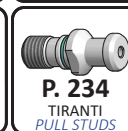
Articolo	H
TC50.H103.CP13S	103
TC50.H108.CP16S	108

**GRIFFE RIVESTITE
IN TITANIO**

**TITANIUM
COATED JAWS**

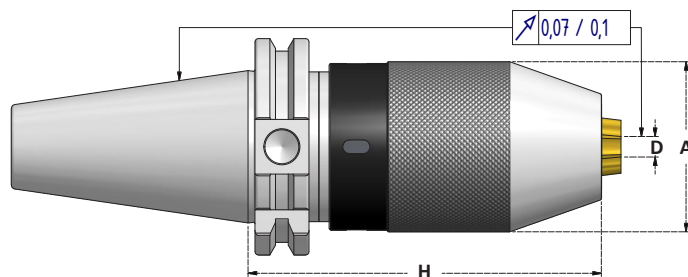
	D	A	Chiave Wrench
...CP8	0,5 - 8	37,5	CH.EX4
...CP13	1- 13	50,5	CH.EX6
...CP16	2,5- 16	57	CH.EX6

ACCESSORI - ACCESSORIES





MANDRINI PORTAPUNTA AUTOSERRANTI - ROTAZIONE DESTRA DRILL CHUCKS - RIGHT ROTATION



Articolo	H
TC30.H80.DCK8S	80
TC30.H100.DCK13S	100

Articolo	H
TC40.H79.DCK8S	79
TC40.H100.DCK13S	100
TC40.H115.DCK16S	115

Articolo	H
TC50.H88.DCK13S	88
TC50.H90.DCK16S	90

**GRIFFE RIVESTITE
IN TITANIO**

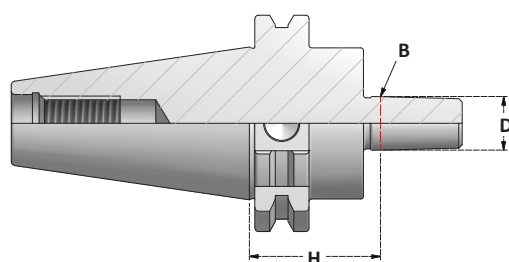
*TITANIUM
COATED JAWS*

	D	A	Chiave Wrench
...DCK8	0,5 - 8	37,5	CH.DC8
...DCK13	1 - 13	50,5	CH.DC13
...DCK16	2,5 - 16	57	CH.DC16

ACCESSORI - ACCESSORIES



ATTACCHI PER MANDRINI AUTOSERRANTI DRILL CHUCKS ARBORS



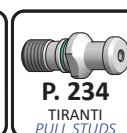
Articolo	H
TC30.H25.B12	25
TC30.H25.B16	25

Articolo	H
TC40.H40.B12	40
TC40.H40.B16	40
TC40.H40.B18	40

Articolo	H
TC50.H40.B16	40
TC50.H40.B18	40

B	D
...B12	12,065
...B16	15,733
...B18	17,78

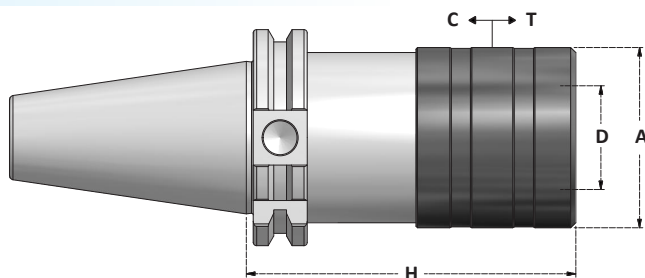
ACCESSORI - ACCESSORIES





MASCHIATORI A CAMBIO RAPIDO CON COMPENSAZIONE ASSIALE

QUICK CHANGE TAPPING CHUCKS WITH AXIAL COMPENSATION



SCHEDA TECNICA
TECHNICAL DATA
MCR | P. 352

Corsa di compressione: **C**
Compression stroke:

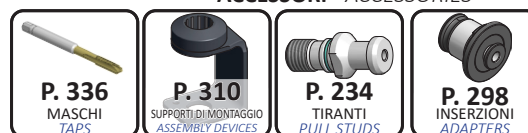
Corsa di trazione: **T**
Extension stroke:

Articolo	H
TC40.MCR1TC	60
TC40.MCR2TC	98
TC40.MCR3TC	150

	Bussola Adapter	D	Tapping Range	A	T	C
..MCR1TC	B1 / BF1	19	M2÷M14	36	7,5	7,5
..MCR2TC	B2 / BF2	31	M6÷M27	53	12,5	12,5
..MCR3TC	B3 / BF3	48	M14÷M45	78	20	20
..MCR4TC	BF4	60	M22÷M45	96	22,5	22,5

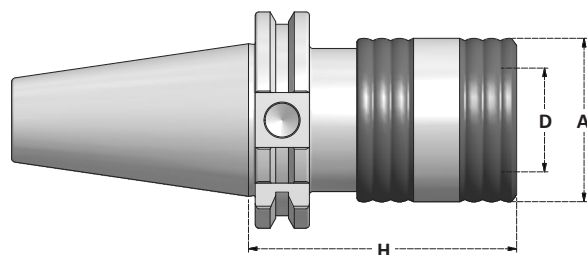
Articolo	H
TC50.MCR1TC	60
TC50.MCR2TC	84
TC50.MCR3TC	150
TC50.MCR4TC	165

ACCESSORI - ACCESSORIES



MASCHIATORI A CAMBIO RAPIDO PER MASCHIATURA RIGIDA

QUICK CHANGE TAPPING CHUCKS FOR RIGID TAPPING



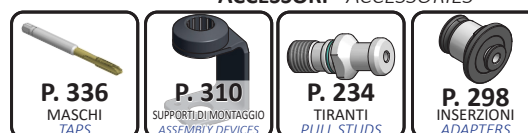
SCHEDA TECNICA
TECHNICAL DATA
MCR | P. 352

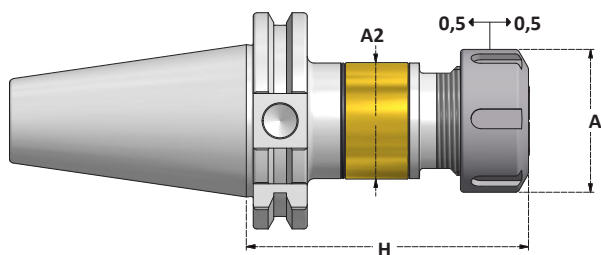
Articolo	A	H
TC30.MCR1R	32	60
TC30.MCR2R	54	82

	Bussola Adapter	D	Tapping Range
...MCR1R	B1 / BF1	19	M2÷M14
...MCR2R	B2 / BF2	31	M6÷M27

Articolo	A	H
TC40.MCR1R	32	62
TC40.MCR2R	54	90

ACCESSORI - ACCESSORIES



**MANDRINI PER MASCHIATURA SINCRONIZZATA**
TAPPING CHUCKS FOR SYNCHRONIZED TAPPINGSCHEDA TECNICA
TECHNICAL DATA
SY | P. 353

Articolo	H
TCB40.ERC16MSY	79



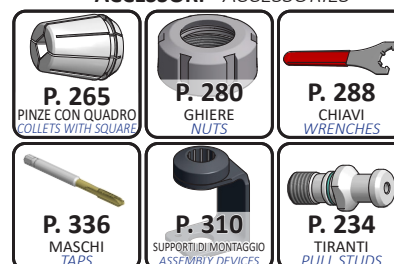
Articolo	H
TCB40.ERC16SY	79
TCB40.ERC20SY	80
TCB40.ERC25SY	84
TCB40.ERC32SY	95
TCB40.ERC40SY	120

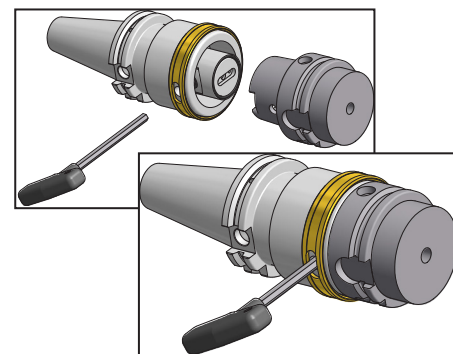
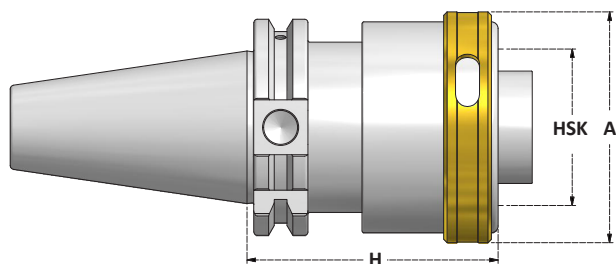
	A	A2	Collets Range	Tapping Range	Ghiera Nut
...ERC16MSY	22	34	3,5 ÷ 10	M3 ÷ M12	G16M
...ERC16SY	32	34	3,5 ÷ 10	M3 ÷ M12	G16S
...ERC20SY	35	34	3,5 ÷ 12	M3 ÷ M16	G20S
...ERC25SY	42	45	3,5 ÷ 16	M3 ÷ M20	G25S
...ERC32SY	50	45	3,5 ÷ 20	M3 ÷ M27	G32S
...ERC40SY	63	62	6 ÷ 25	M5 ÷ M33	G40S

VANTAGGI RISPETTO AL SISTEMA CON BUSSOLE
ADVANTAGES COMPARED TO ADAPTERS SYSTEM

- PASSAGGIO DEL REFRIGERANTE
- ADATTO PER MASCHIATURA AD ALTE VELOCITÀ
- SISTEMA PORTAPINZE ER
- COOLANT THROUGH
- SUITABLE FOR HIGH SPEED TAPPING
- ER COLLET SYSTEM

ACCESSORI - ACCESSORIES

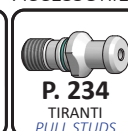
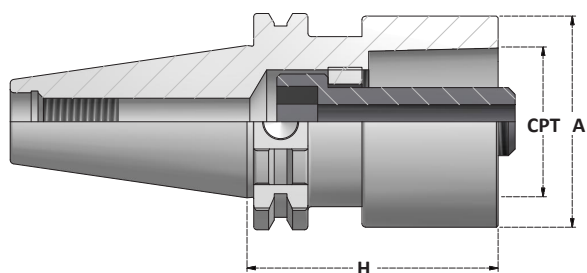


**ADATTATORI PER ATTACCHI HSK FORMA A/C**
ADAPTERS FOR HSK SHANKS FORM A/C

Articolo	H	A	HSK A/C
TCB40.H65.HSK50AC	65	55	50
TCB40.H75.HSK63AC	75	70	63



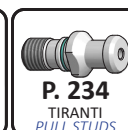
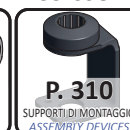
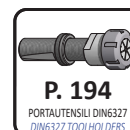
Articolo	H	A	HSK A/C
TCB50.H65.HSK50AC	65	55	50
TCB50.H75.HSK63AC	75	70	63
TCB50.H100.HSK100AC	100	110	100

ACCESSORI - ACCESSORIES**NEW****ADATTATORI PER ATTACCHI POLIGONALI CPT**
ADAPTERS FOR POLIGONAL SHANKS CPT

Articolo	H	A	CPT
TCB40.H30.CPT40	30	40	CPT40
TCB40.H40.CPT50	40	50	CPT50
TCB40.H85.CPT63	85	63	CPT63

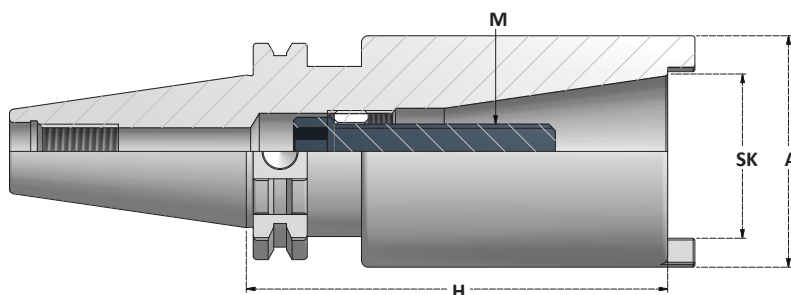


Articolo	H	A	CPT
TCB50.H30.CPT40	30	40	CPT40
TCB50.H30.CPT50	30	50	CPT50
TCB50.H50.CPT63	50	63	CPT63
TCB50.H70.CPT80	70	80	CPT80
TCB50.H140.CPT100	140	100	CPT100

ACCESSORI - ACCESSORIES



RIDUZIONI PER ATTACCHI CONICI TC-BT-ISO REDUCTION SLEEVES FOR TAPERED SHANKS TC-BT-ISO



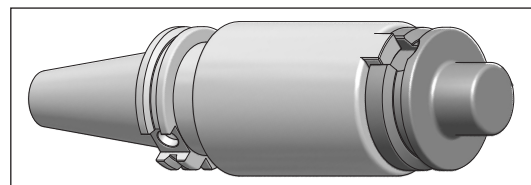
TC DIN ISO 7388 (DIN69871)
BT MAS 403 (JIS B 6339)
ISO DIN 2080

Articolo	H	A	M	SK
TC40.H60.TB30	60	50	M12	TC30 / BT30
TC40.H95.TB40	95	70	M16	TC40 / BT40

Articolo	H	A	M	SK
TC50.H70.TB40	70	70	M16	TC40 / BT40
TC50.H120.TB50	120	90	M24	TC50 / BT50

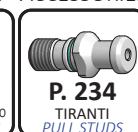
Articolo	H	A	M	SK
TC40.H60.ISO30	60	50	M12	ISO30
TC40.H95.ISO40	95	70	M16	ISO40

Articolo	H	A	M	SK
TC50.H70.ISO40	70	70	M16	ISO40
TC50.H120.ISO50	120	90	M24	ISO50

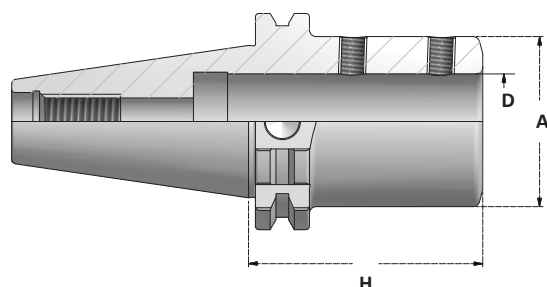
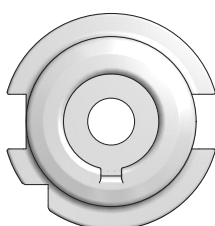


FORNITI CON VITE SENZA FORO PER IL PASSAGGIO DEL REFRIGERANTE
SUPPLIED WITH SCREW WITHOUT COOLANT THROUGH

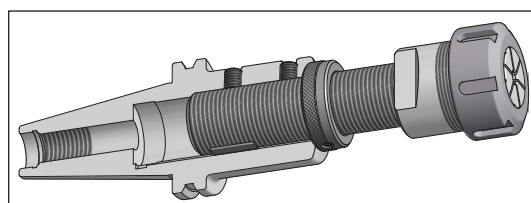
ACCESSORI - ACCESSORIES



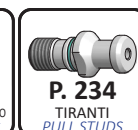
MANDRINI PORTA INSERZIONI REGISTRABILI DIN 6327 HOLDERS FOR ADJUSTABLE ADAPTERS DIN 6327

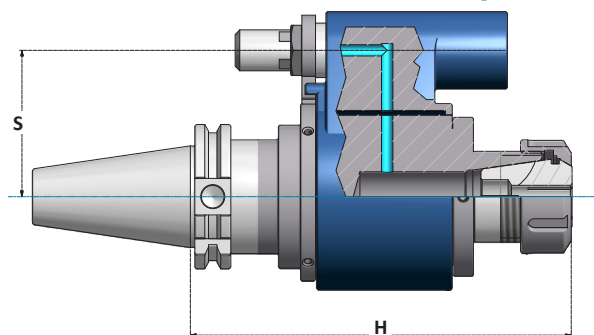
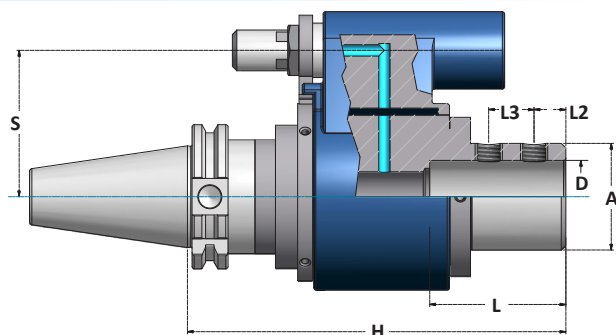


Articolo	D	H	A
TC50.H85.TR20	20	85	32
TC50.H100.TR28	28	100	40
TC50.H100.TR36	36	100	50
TC50.H105.TR48	48	105	67



ACCESSORI - ACCESSORIES



**DISTRIBUTORI ROTANTI DEL REFRIGERANTE**
OIL HOLE HOLDERS

Pressione d'esercizio: MAX 7 bar
Numero di giri: MAX 3000 r.p.m.

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

Per il collegamento alla macchina utensile necessita dello "stop block" acquistabile tra gli accessori.

*Operating pressure: MAX 7 bar
Number of revolutions: MAX 3000 r.p.m.*

To preserve the special seals from premature wear, coolant must be filtered with a maximum residue of 5µm.

For the connection it needs the "stop block" that can be purchased among the accessories.

DISTRIBUTORI ROTANTI DEL REFRIGERANTE PER ATTACCHI CILINDRICI
SIDE LOCK OIL HOLE HOLDERS

Articolo	D	H	A	L	S	L2	L3
TC40.D25DR	25	165	46,5	56	65	15	20
TC40.D32DR	32	165	47	60	65	15	20

Articolo	D	H	A	L	S	L2	L3
TC50.D25DR	25	165	56	56	80	15	20
TC50.D32DR	32	170	56	60	80	15	20
TC50.D40DR	40	170	56	62	80	15	25

DISTRIBUTORI ROTANTI DEL REFRIGERANTE PORTAPINZA ER
ER OIL HOLE HOLDERS COLLET CHUCKS

Articolo	H	S
TC40.ERC16DR	160	65
TC40.ERC20DR	160	65
TC40.ERC25DR	160	65
TC40.ERC32DR	160	65

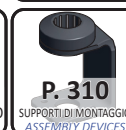
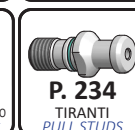
Articolo	H	S
TC50.ERC32DR	160	80
TC50.ERC40DR	160	80

La fornitura comprende un disco di tenuta RG.D10.
Supplied with RG.D10 sealing disc.

	Collets Range	Ghiera Nut
...ERC16DR	1÷10	G16HTE
...ERC20DR	1÷14	G20HTE



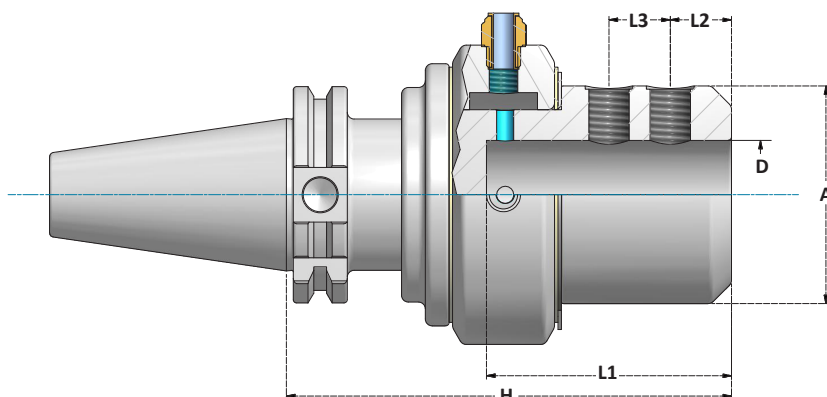
	Collets Range	Ghiera Nut
...ERC25DR	1÷20	G25HT
...ERC32DR	2÷22	G32HT
...ERC40DR	3÷30	G40HT

**ACCESSORI - ACCESSORIES****P. 284**
GHIERE A TENUTA
SEALED NUTS**P. 284**
DISCHETTI RG
RG SEALED DISCS**P. 306**
BLOCCO D'ARRESTO
STOP BLOCK**P. 310**
SUPPORTI DI MONTAGGIO
ASSEMBLY DEVICES**P. 234**
TIRANTI
PULL STUDS

**DIN ISO 7388 (DIN69871)**

TC

DRM

**DISTRIBUTORI ROTANTI DEL REFRIGERANTE A CAMBIO MANUALE
PER ATTACCHI CILINDRICI***MANUAL SIDE LOCK OIL HOLE HOLDERS*

Articolo	D	H	A	L1	L2	L3	GRANI SCREWS
TC40.DRM32	32	125	64,5	72	20	20	M14x2

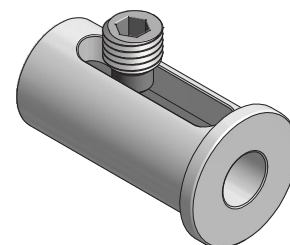
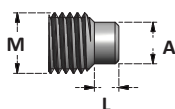
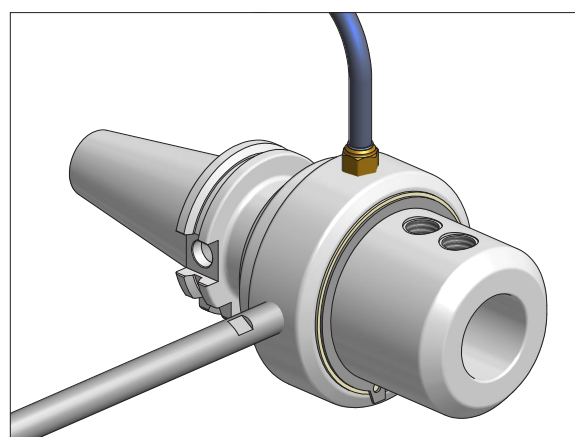
Articolo	D	H	A	L1	L2	L3	GRANI SCREWS
TC50.DRM40	40	135	64,5	82	20	25	M16x1,5

Pressione d'esercizio: MAX 20 bar
 Numero di giri: MAX 1000 r.p.m.

Per preservare dall'usura precoce le speciali guarnizioni di tenuta, il liquido refrigerante deve essere filtrato con residuo max 5µm. Fornito con la barra filettata da agganciare ad un fermo nella macchina utensile.

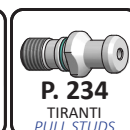
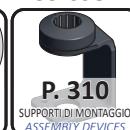
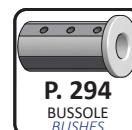
*Operating pressure: MAX 20 bar
 Number of revolutions: MAX 1000 r.p.m.*

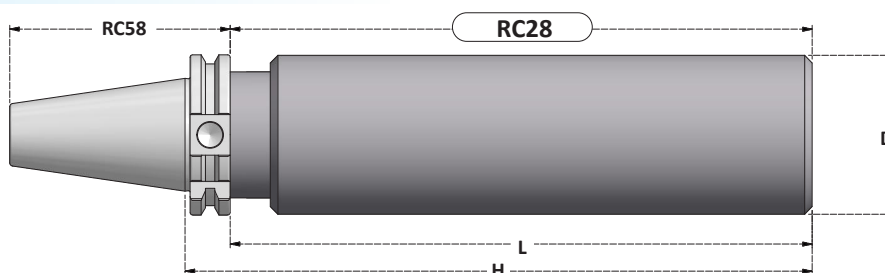
To preserve the special seals from premature wear, coolant must be filtered with a maximum residue of 5µm. Supplied with the threaded rod to be hooked to a stop in the machine tool.

**GRANI PER UTILIZZO BUSSOLE E2-1 CON ASOLA**
SCREWS FOR USING E2-1 BUSHES WITH SLOT

Articolo	M	A	L
GR.DRM32-25-20	M14x2	12	8

Articolo	M	A	L
GR.DRM40-32	M16x1,5	12	7

ACCESSORI - ACCESSORIES

**MANDRINI CON STELO LAVORABILE***BLANK ARBORS*

Articolo	D	H	L
TC40.H250.D40BL	40	250	230
TC40.H250.D63BL	63	250	230
TC40.H270.D80BL	80	270	250



Articolo	D	H	L
TC50.H330.D50BL	50	330	310
TC50.H315.D63BL	63	315	295
TC50.H330.D80BL	80	330	310
TC50.H315.D97BL	97	315	295

**ATTACCO A DOPPIO CONTATTO**
DOUBLE CONTACT SHANK

Articolo	D	H	L
DTC40.H250.D63BL	63	250	230
DTC40.H315.D80BL	80	315	295

ATTACCO A DOPPIO CONTATTO
DOUBLE CONTACT SHANK

Articolo	D	H	L
DTC50.H315.D97BL	97	315	295

