

CAPORALI



2013



Clicca per andare all'**INDICE**

*Click to go to the **INDEX***

CLICCA PER SCOPRIRE COME USARE IL LISTINO INTERATTIVO
CLICK TO DISCOVER HOW TO USE THE INTERACTIVE PRICE LIST

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store.caporali.net

Il listino interattivo CAPORALI 2013 si propone di essere uno strumento che faciliti la consultazione dell'assortimento dell'azienda mediante l'uso dei pulsanti per navigare comodamente tra le schede dei prodotti usando supporti digitali quali computer e tablet.

Sfruttando tutti gli elementi cliccabili basteranno 3 o 4 click per visualizzare l'argomento di vostro interesse:

Nella parte inferiore di ogni pagina troverete il link allo store online che vi collegherà alla pagina internet della Caporali e alla mail che aprirà il vostro programma di posta elettronica per comunicare comodamente con l'azienda.

Il listino interattivo corrisponde a quello cartaceo nella maggior parte delle sue pagine, con qualche aggiunta che faciliti la consultazione. In basso al centro troverete sempre l'indicazione della pagina del listino cartaceo, mentre in basso a destra il numero della pagina del pdf interattivo che state consultando.

La consultazione del listino inizia dalle due pagine di indice generale, suddiviso in capitoli.

Cliccando il capitolo accederete all'indice particolare del capitolo. Qui vi sarà possibile, sempre tramite click, di andare alla pagina del prodotto di vostro interesse.

In basso ad ogni pagina troverete dei pulsanti che vi faranno tornare all'indice del capitolo o all'indice generale del listino.

La maggior parte delle pagine contengono degli ulteriori link che permettono di andare alle schede di altri prodotti legati tematicamente a quelli della pagina visualizzata (es. Nella pagina con un mandrino EOC troverete dei link alle pinze e alle ghiera EOC, ai supporti di montaggio, ai codoli e alle chiavi)

The interactive price list CAPORALI 2013 is a tool that facilitates the consultation of the firm stock by means of buttons, which allow you to surf comfortably through the product files using digital devices such as computer or tablets. Taking advantage of all clickable elements you will find what you need in 3 or 4 clicks:

In the lower part of the page you will find the link to the online store, which will connect you to the Caporali internet page and to the mail, which will open your e-mail in order to communicate easily with the firm.

The interactive price list is the same of the paper one for most of its pages. There are just some additions that facilitate the surfing. On the lower part in the center of the page you find the page indication of the price list, while on the right bottom part you view the page number of the interactive Pdf you are consulting.

The price list consultation begins with the two pages of the general index, which is divided in chapters. If you click on one of the chapters you will gain access to the chapter's particular index. It is possible to gain access to the product page in which you are interested simply by clicking it.

On the bottom of every page you find buttons, which will lead you to the chapter index or to the general index.

Most of the pages comprise further links, which allow you to access other product files, connected to the visualized page by a similar topic. (E.g. On the page with an EOC collect chuck you will be linked to the EOC collects and nuts, to the assembly devices, the pull studs and keys).

DIN 69893 HSK

1



DIN 69871 TC

2



PORTAPINZE SENZA TACCHE DI TRASCINAMENTO *COLLET CHUCKS WITHOUT DRIVING SLOTS*

3



TIRANTI *PULL STUDS*



TIRANTI *PULL STUDS*



TIRANTI *PULL STUDS*



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6



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GHIERE EOC EOC NUTS



GHIERE ERCD ERCD NUTS



DIN 6343 - W20 W25 - 5C

12



I PREZZI INDICATI NEL LISTINO 2013 SONO ESPRESSI IN EURO (IVA ESCLUSA) E SI INTENDONO PER MATERIALE RESO **FRANCO NOSTRO MAGAZZINO E AL LORDO DEGLI SCONTI** STABILITI FRA LE PARTI.

GLI ORDINI DEVONO PERVENIRE PER ISCRITTO ALLA MAIL (info@caporali.net)
O POSSONO ESSERE EFFETTUATI DALLO STORE ONLINE (store.caporali.net)

ORDINI DI VALORE INFERIORE A 150,00 EURO VERRANNO ACCETTATI SOLO NEL CASO DI PAGAMENTO IN CONTRASSEGNO O CON BONIFICO BANCARIO ANTICIPATO.

I PAGAMENTI DELLE NOSTRE FATTURE DOVRANNO ESSERE EFFETTUATI ENTRO I TERMINI E ALLE CONDIZIONI CONCORDATE.

GLI UTENSILI CONSEGNATI RESTANO DI PROPRIETA' DELLA G.CAPORALI s.r.l. FINO AL TOTALE PAGAMENTO DELLE FATTURE EMESSE.

LE RICHIESTE DI RESO E/O SOSTITUZIONE DOVRANNO ESSERE INVIATE, ENTRO 8 GIORNI DALLA CONSEGNA, PER ISCRITTO AL NOSTRO UFFICIO DELLA QUALITA' (store.caporali.net) CHE PROVVEDERA' A VALUTARLE E AD AUTORIZZARE IL RESO CON UN NUMERO DI PROTOCOLLO.
IL MATERIALE RESO PER ERRATA ORDINAZIONE DOVRA' PERVENIRCI IN PORTO FRANCO, NON DANNEGGIATO E NON UTILIZZATO PER PROVE O LAVORAZIONI.

GLI ARTICOLI RESI PER ERRATA ORDINAZIONE SARANNO ACCREDITATI CON UNA DEDUZIONE DI 30,00 EURO PER IL PARZIALE RECUPERO DELLE SPESE AMMINISTRATIVE E DI RISTOCCAGGIO.

LA CONSEGNA DEGLI ARTICOLI IN STOCK AVVIENE SOLITAMENTE ENTRO 24/48 ORE DAL RICEVIMENTO DELL'ORDINE. PER GLI ARTICOLI NON DISPONIBILI LA CONSEGNA SARA' COMUNICATA CON CONFERMA SCRITTA. I RITARDI DOVUTI AD EVENTUALI PROBLEMI DI PRODUZIONE NON DANNO DIRITTO ALLA RICHIESTA DI RISARCIMENTO DANNI.

LE SPESE DI TRASPORTO SONO A CARICO DEL CLIENTE CHE POTRA' INDICARCI IL NOMINATIVO DEL CORRIERE CON IL QUALE E' CONVENZIONATO.
LA MERCE SI INTENDE CONSEGNATA AL MOMENTO DELL'AFFIDAMENTO AL CORRIERE.

I RECLAMI PER EVENTUALI DISCORDANZE SULLE QUANTITA' RICEVUTE DOVRANNO ESSERE COMUNICATI PER ISCRITTO (store.caporali.net) ENTRO 12 GIORNI SUCCESSIVI ALLA DATA DI SPEDIZIONE.

I NOSTRI UTENSILI SONO COSTRUITI A REGOLA D'ARTE E GARANTITI NELLA LORO QUALITA' E PRECISIONE SECONDO I PARAMETRI INDICATI NELLE NORMATIVE EUROPEE.
EVENTUALI ANOMALIE DOVRANNO ESSERE SEGNALATE PER ISCRITTO (store.caporali.net) ENTRO 8 GIORNI DALLA DATA DI CONSEGNA.
SOSTITUIREMO IN TOTALE GARANZIA E A NOSTRE SPESE GLI UTENSILI CHE RISULTASSERO NON CONFORMI AI NOSTRI RICOLLAUDI.
SONO ESCLUSI DALLA GARANZIA GLI UTENSILI USATI IN MODO IMPROPRIO, USATI PER LUNGHI PERIODI O MODIFICATI DAL CLIENTE.

NON ASSUMIAMO RESPONSABILITA' PER GLI ERRORI, LE INESATTEZZE E LE OMISSIONI CHE POSSONO APPARIRE IN QUESTO LISTINO. LE FORME E I DISEGNI DEI PRODOTTI, CHE SONO IN CONTINUA EVOLUZIONE PER MIGLIORARNE LE PRESTAZIONI, POSSONO RISULTARE DIFFERENTI DA QUELLE RIPORTATE.

I TESTI, I DISEGNI, LE FOTOGRAFIE DI QUESTO LISTINO SONO DI PROPRIETA' DELLA SOCIETA' G.CAPORALI s.r.l. E SONO PROTETTI DA COPYRIGHT.
LA RIPRODUZIONE O L'UTILIZZO PER ALTRE PUBBLICAZIONI DEVE ESSERE AUTORIZZATO DALLA G.CAPORALI s.r.l.

ALL PRICES SHOWN ARE IN EURO (€) AND ARE VALID EX WORKS EXCLUDING VALUE ADDED TAX (VAT). PACKAGING INCLUDED. PRICES ARE SUBJECT TO CHANGE.

CUSTOMER'S DISCOUNT, IF ANY, WILL BE STIPULATED IN CONTRACT CONDITIONS

PAYMENT

PAYMENTS SHALL BE MADE BY BUYER WITHIN STIPULATED TIME AND ACCORDINGLY TO THE AGREED CONDITIONS. LATE PENALTIES WILL BE CALCULATED EVERY 30 DAYS THEREAFTER BASED ON THE BUYER'S CURRENT OUTSTANDING BALANCE.

UNTIL FULL PAYMENT OF THE INVOICE IS DONE GOODS REMAIN THE PROPERTY OF G.CAPORALI S.R.L.. BUYER CAN ONLY ALIENATE ITS LAW OF CONTRACT TO A THIRD PARTY WITH OUR WRITTEN ACCEPTANCE. ORDER VALUE LOWER THAN 150 EURO (NET) WILL BE ACCEPTED ONLY WHEN PAID IN ADVANCE

RETURN / REPLACEMENT

REQUEST FOR RETURN OF GOODS BECAUSE OF ERROR IN ORDER AND/OR REPLACEMENT CAN BE DONE ONLY AFTER OUR WRITTEN AUTHORIZATION. SUCH A REQUEST MUST BE DONE IN WRITTEN WITHIN 8 DAYS FROM THE DELIVERY DATE. RETURN PRODUCT MUST BE IN ORIGINAL PACKAGING, UNUSED, UNDAMAGED, AND IN SALEABLE CONDITION. PROOF OF PURCHASE IS REQUIRED IN ALL CASES. RETURN SHIPPING MUST BE DONE WITHIN 30 DAYS FROM THE RECEIPT OF OUR AUTHORIZATION. SHIPPING COSTS PREPAID BY CUSTOMER.
CLAIMS FOR THE QUANTITY DISCREPANCY MUST BE ADVISED WITHIN 2 DAYS FROM THE DELIVERY DATE

WARRANTY

G.CAPORALI S.R.L. WARRANTS PRODUCTS AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USE FOR A PERIOD OF 1 YEAR AFTER THE DATE OF PURCHASE. G.CAPORALI S.R.L. MAY, AT ITS OPTION: REPAIR, REPLACE OR REFUND THE AMOUNT PAID BY CUSTOMER.
OUR PRODUCTS ARE MADE ACCORDING TO INTERNATIONAL STANDARDS (SPECIFIED IN OUR LITERATURE) WITH SPECIAL CARE PAID FOR HIGH QUALITY.
G.CAPORALI S.R.L. DISCLAIMS ANY LIABILITY FOR CLAIMS ARISING OUT OF PRODUCT MISUSE, IMPROPER PRODUCT SELECTION, IMPROPER INSTALLATION, PRODUCT MODIFICATION, MIS-REPAIR OR MISAPPLICATION.

DELIVERY TIME

G.CAPORALI S.R.L. DECLARES TO SHIP STOCK GOODS WITHIN 24/48 HOURS FROM THE RECEIPT OF ORDER. FOR PRODUCTS TEMPORARILY NOT AVAILABLE IN STOCK DELIVERY TIME WILL BE CONFIRMED IN WRITTEN. CLAIMS FOR DELAY IN DELIVERY DUE TO PLANT BREAK DOWN, UNEXPECTED SUPPLY DIFFICULTIES OF RAW MATERIALS AND OTHER PRODUCTION PROBLEMS WILL NOT BE ACCEPTED.

CANCELLATION

ALL PRODUCTS ORDER CANCELLATIONS MUST BE APPROVED BY G.CAPORALI S.R.L., AND MAY BE SUBJECT TO RESTOCKING FEES AND OTHER CHARGES

TRANSPORT

GOODS TRAVEL AT BUYER'S COST AND PERIL AND IT IS INTENDED DELIVERED AT THE MOMENT OF ENTRUSTING TO THE FORWARDER SELECTED BY BUYER

LITERATURE INFORMATION

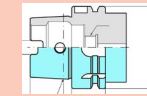
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PORTAPINZE
COLLET CHUCKS



PROLUNGHE HSK
HSK EXTENSIONS



PORTAFRESA AD INSERTI
FACE MILL HOLDERS



MANDRINI A STELO LAVORABILE
MACHINABLE BLANK ARBORS



PORTAPINZE
COLLET CHUCKS



MANDRINI AUTOSERRANTI
HEX KEY DRILL CHUCKS



PORTAFRESE FISSI
SHELL END MILL HOLDERS



MANDRINI DI COLLAUDO
TEST ARBORS



**PORTAPINZE A CENTRATURA
 RADIALE REGOLABILE**
RADIAL ADJUSTABLE COLLET CHUCKS



MANDRINI WHISTLE-NOTCH
WHISTLE-NOTCH END MILL HOLDERS



MANDRINI PER FRESE FILETTATE
*TOOLHOLDERS
 FOR SCREWED MILLING CUTTERS*



RACCORDI PER REFRIGERANTE
HSK-COOLING TUBE



PORTAPINZE PER PINZE EOC
EOC COLLET CHUCKS



MANDRINI PER FRESE WELDON
END MILL HOLDERS



RIDUZIONI A CONO MORSE
PER PUNTE
MORSE TAPER ADAPTERS FOR DRILLS



PORTAUTENSILI MODULARI
MODULAR TOOLHOLDERS



MANDRINI A FORTE SERRAGGIO
POWER MILLING CHUCKS



PORTAMASCHI
TAP HOLDERS



RIDUZIONI A CONO MORSE
PER FRESE
MORSE TAPER ADAPTERS FOR MILLS



HSK FORM E



MANDRINI IDRAULICI
HYDRAULIC EXPANSION CHUCKS



PORTAFRESE COMBINATI
COMBI SHELL END MILL HOLDERS

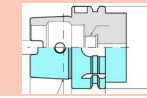


**MANDRINI PER IL
 CALETTAMENTO TERMICO**
SHRINK FIT HOLDERS

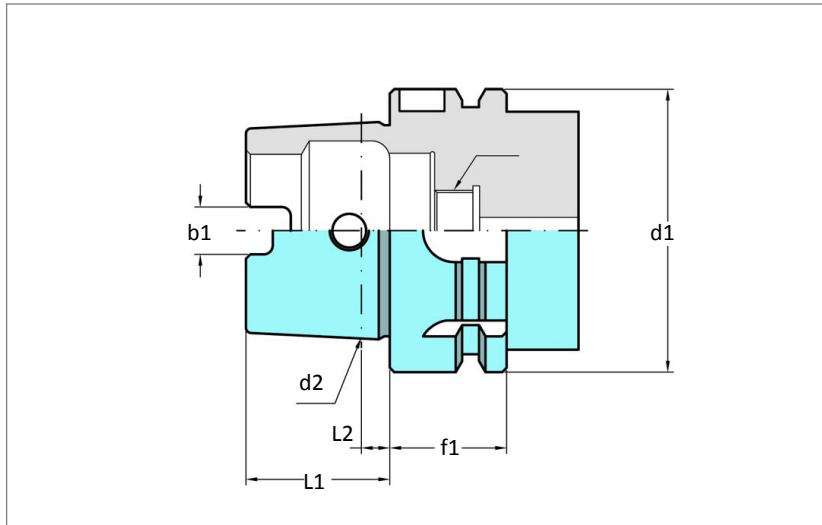


HSK FORM F





HSK FORM A DIN69893/ISO 12164-1



DIMENSIONI ATTACCHI HSK-A
HSK-A SHANK DETAILS

d1	d2	L1	L2	M	f1	b1
40	30	20	4,0	M12x1	20	8,05
50	38	25	5,0	M16x1	26	10,54
63	48	32	6,3	M18x1	26	12,54
80	60	40	8,0	M20x1,5	26	16,04
100	75	50	10,0	M24x1,5	29	20,02

I MANDRINI HSK SONO COSTRUITI IN ACCIAIO 20MnCr5.
SONO CEMENTATI CON UNA PROFONDITA' MINIMA DI 0,6/0,8 mm.
LA DUREZZA SUPERFICIALE E' DI 58 +/-2 HRC.
SONO BRUNITI E RETTIFICATI CON PRECISIONE AT3 PER IL CONO D'ATTACCO.
LA RUGOSITA' MAX E' 0,001mm.

HSK TOOLHOLDERS ARE MANUFACTURED WITH 20MnCr5 CASE HARDENED STEEL.

THE MINIMUM DEPTH OF CASE IS 0,6/0,8mm.

SURFACE HARDNESS: 58 +/-2 Rc.

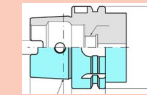
THE ACCURACY OF THE SHANK TAPER IS AT3.

THE SURFACE ROUGHNESS IS MAX 0,001mm.



DIN 69893 HSK A

TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



PORTAPINZE MINI MINI COLLET CHUCKS

	A
HSK50A.H100.ERC16M	22
HSK63A.H100.ERC11M	16
HSK63A.H160.ERC11M	16
HSK63A.H100.ERC16M	22
HSK63A.H160.ERC16M	22
HSK63A.H110.ERC20M	28
HSK63A.H100.ERC25M	35
HSK63A.H160.ERC25M	35
HSK100A.H160.ERC16M	22

CORPO MANDRINO BILANCIATO G6,3/ 15000 g/min
BASE BODY BALANCED G6,3 / 15000 rpm



PORTAPINZE COLLET CHUCKS

	A
HSK40A.H80.ERC16	28
HSK40A.H80.ERC25	42
HSK40A.H100.ERC32	50
HSK50A.H100.ERC16	28
HSK50A.H100.ERC25	42
HSK50A.H100.ERC32	50
HSK63A.H100.ERC16	28
HSK63A.H160.ERC16	28
HSK63A.H200.ERC16	28
HSK63A.H100.ERC20	34
HSK63A.H100.ERC25	42
HSK63A.H160.ERC25	42
HSK63A.H200.ERC25	42
HSK63A.H80.ERC32	50
HSK63A.H100.ERC32	50
HSK63A.H160.ERC32	50
HSK63A.H200.ERC32	50
HSK63A.H100.ERC40	63
HSK63A.H120.ERC40	63
HSK63A.H160.ERC40	63
HSK63A.H200.ERC40	63
HSK80A.H100.ERC32	50
HSK80A.H120.ERC40	63

CORPO MANDRINO BILANCIATO G6,3/ 15000 g/min
BASE BODY BALANCED G6,3 / 15000 rpm

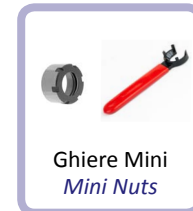


ERC 16
ERC 20

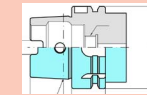


I PORTAUTENSILI HSK POSSONO ESSERE BILANCIATI A RICHIESTA IN GRADO G2,5/30.000 g/min. PER LE MASSIME VELOCITA' DI ROTAZIONE CONSIGLIAMO LA BILANCIATURA DEL MANDRINO CON L'UTENSILE MONTATO.

FINE BALANCING OF HSK TOOLS UP TO 30.000 rpm IS POSSIBLE ON REQUEST. FOR THE MAX rpm WE SUGGEST TO BALANCE THE TOOLHOLDER TOGETHER WITH THE CUTTING TOOL.



DIN 69893 HSK A



PORTAPINZE MINI MINI COLLET CHUCKS

	A
HSK63A.H100.ERC11MNF	16
HSK63A.H160.ERC11MNF	16
HSK63A.H100.ERC16MNF	24
HSK63A.H160.ERC16MNF	24
HSK63A.H100.ERC25MNF	37

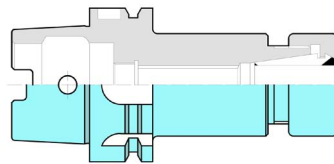
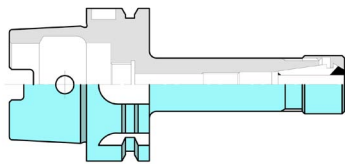
CORPO MANDRINO BILANCIATO G2,5/ 25000 g/min
BASE BODY BALANCED G2,5/ 25000 rpm

PORTAPINZE COLLET CHUCKS

	A
HSK63A.H100.ERC16NF	32
HSK63A.H160.ERC16NF	32
HSK63A.H100.ERC20NF	35
HSK63A.H100.ERC25NF	42
HSK63A.H160.ERC25NF	42
HSK63A.H100.ERC32NF	50
HSK63A.H160.ERC32NF	50

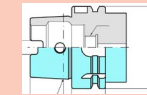
CORPO MANDRINO BILANCIATO G2,5/ 25000 g/min
BASE BODY BALANCED G2,5/ 25000 rpm

PORTAPINZE CON GHIERE SENZA TACCHE DI TRASCINAMENTO
COLLET CHUCKS WITH NOTCH FREE NUTS



DIN 69893 HSK A

TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



PORTAPINZE A CENTRATURA RADIALE REGOLABILE RADIAL ADJUSTABLE COLLET CHUCK

Model	A
HSK63A.H115.ERC32RG	50

PERMETTE DI ALLINEARE L'UTENSILE E IL PEZZO IN LAVORAZIONE CON LA TOLLERANZA DI 0,01mm
BY USING THE CHUCK RG, THE RUNOUT OF THE CUTTING TOOL CAN BE ADJUSTED TO 0,01mm



MANDRINI A FORTE SERRAGGIO POWER MILLINGS CHUCKS

Model	A
HSK63A.H85.FS20	46
HSK63A.H110.FS32	62

CORPO MANDRINO BILANCIATO G6,3/ 8000 g/min
BASE BODY BALANCED G6,3 / 8000 rpm



CASSETTE CON MANDRINI A FORTE SERRAGGIO E PINZE A TENUTA POWER MILLING CHUCKS AND SEALED COLLETS KITS

4SR20 D. 6 - 8 - 10 - 12 - 16

BX.HSK63A.FS20

4SR32 D. 6 - 8 - 10 - 12 - 16 - 20 - 25

BX.HSK63A.FS32



PORTAPINZE PER PINZE EOC EOC COLLET CHUCKS

Model	A
HSK63A.H100.EOC16	43
HSK63A.H100.EOC25	60
HSK63A.H100.EOC32	72

CORPO MANDRINO BILANCIATO G6,3/ 15000 g/min
BASE BODY BALANCED G6,3/ 15000 rpm



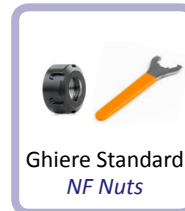
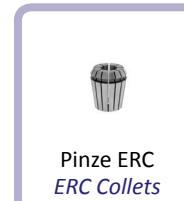
PINZE PER MANDRINI A FORTE SERRAGGIO COLLETS FOR POWER MILLINGS CHUCKS



Pinze 4SR20
4SR20 Collets

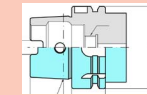


Pinze 4SR32
4SR32 Collets



DIN 69893 HSK A

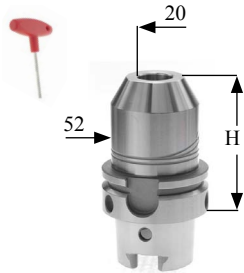
TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



MANDRINI IDRAULICI HYDRAULIC EXPANSION CHUCKS

HSK63A.H80.D20HYE

CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE BODY BALANCED G2,5/ 20000 rpm



PINZE A TENUTA DEL REFRIGERANTE PER MANDRINI IDRAULICI SEALED COLLETS FOR POWER MILLINGS CHUCKS



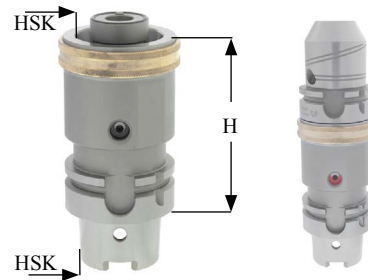
MANDRINI AUTOSERRANTI CON CHIAVE ESAGONALE E PASSAGGIO REFRIGERANTE HEX KEY LOCK DRILL CHUCKS WITH COOLANT THROUGH

HSK63A.H101.HD13
HSK63A.H106.HD16



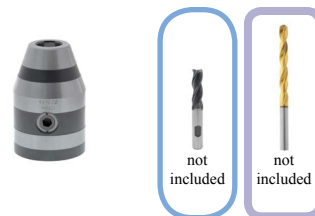
PROLUNGHE HSK HSK EXTENSIONS

HSK63A.H100.HSK63AC
HSK100A.H160.HSK100AC



MANDRINI AUTOSERRANTI DI RICAMBIO ATTACCO FILETTATO M43,5x1,0 REPLACEMENT DRILL CHUCKS HEADS THREAD MOUNTING M43,5x1,0

HD 13
HD 16



MANDRINI WHISTLE-NOTCH WHISTLE-NOTCH END MILL HOLDERS

HSK63A.H80.WHN6
HSK63A.H80.WHN8
HSK63A.H80.WHN10
HSK63A.H90.WHN12
HSK63A.H90.WHN14
HSK63A.H100.WHN16
HSK63A.H100.WHN18
HSK63A.H100.WHN20
HSK63A.H110.WHN25
HSK63A.H110.WHN32

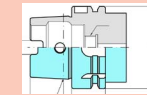
HSK100A.H90.WHN6
HSK100A.H90.WHN8
HSK100A.H90.WHN10
HSK100A.H100.WHN12
HSK100A.H100.WHN14
HSK100A.H100.WHN16
HSK100A.H100.WHN18
HSK100A.H110.WHN20
HSK100A.H120.WHN25
HSK100A.H120.WHN32
HSK100A.H120.WHN40

CORPO MANDRINO BILANCIATO G6,3/ 15000 g/min
BASE BODY BALANCED G6,3/ 15000 rpm



DIN 69893 HSK A

TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



MANDRINI PER FRESE WELDON END MILL HOLDERS

HSK50A.H65.WE6	
HSK50A.H65.WE8	
HSK50A.H65.WE10	
HSK50A.H80.WE12	
HSK50A.H80.WE14	
HSK50A.H80.WE16	
HSK50A.H80.WE18	
HSK50A.H80.WE20	

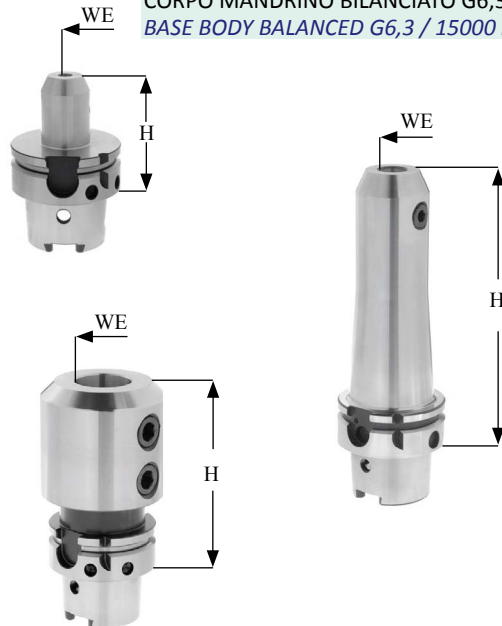
HSK63A.H65.WE6	
HSK63A.H100.WE6	
HSK63A.H160.WE6	
HSK63A.H65.WE8	
HSK63A.H100.WE8	
HSK63A.H160.WE8	
HSK63A.H65.WE10	
HSK63A.H100.WE10	
HSK63A.H160.WE10	
HSK63A.H80.WE12	
HSK63A.H100.WE12	
HSK63A.H160.WE12	
HSK63A.H80.WE14	
HSK63A.H100.WE14	
HSK63A.H160.WE14	
HSK63A.H80.WE16	
HSK63A.H100.WE16	
HSK63A.H160.WE16	
HSK63A.H80.WE18	
HSK63A.H100.WE18	
HSK63A.H160.WE18	
HSK63A.H80.WE20	
HSK63A.H100.WE20	
HSK63A.H160.WE20	
HSK63A.H110.WE25	
HSK63A.H160.WE25	
HSK63A.H110.WE32	
HSK63A.H160.WE32	

CORPO MANDRINO BILANCIATO G6,3/ 15000 g/min
BASE BODY BALANCED G6,3 / 15000 rpm

MANDRINI PER FRESE WELDON END MILL HOLDERS

HSK100A.H80.WE6	
HSK100A.H80.WE8	
HSK100A.H80.WE10	
HSK100A.H80.WE12	
HSK100A.H80.WE14	
HSK100A.H100.WE16	
HSK100A.H100.WE18	
HSK100A.H100.WE20	
HSK100A.H100.WE25	
HSK100A.H100.WE32	
HSK100A.H105.WE40	

CORPO MANDRINO BILANCIATO G6,3/ 15000 g/min
BASE BODY BALANCED G6,3 / 15000 rpm



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

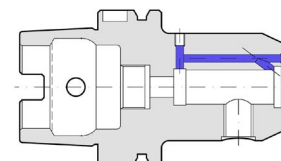
HSK40A.H60.WE6C	
HSK40A.H60.WE8C	
HSK40A.H60.WE10C	
HSK40A.H70.WE12C	
HSK40A.H75.WE16C	

HSK50A.H65.WE6C	
HSK50A.H65.WE8C	
HSK50A.H65.WE10C	
HSK50A.H80.WE12C	
HSK50A.H80.WE14C	
HSK50A.H80.WE16C	
HSK50A.H80.WE18C	
HSK50A.H80.WE20C	

HSK63A.H65.WE6C	
HSK63A.H65.WE8C	
HSK63A.H65.WE10C	
HSK63A.H80.WE12C	
HSK63A.H80.WE14C	
HSK63A.H80.WE16C	
HSK63A.H80.WE18C	
HSK63A.H80.WE20C	
HSK63A.H110.WE25C	
HSK63A.H110.WE32C	
HSK63A.H125.WE40C	

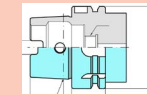
HSK100A.H80.WE6C	
HSK100A.H80.WE8C	
HSK100A.H80.WE10C	
HSK100A.H80.WE12C	
HSK100A.H80.WE14C	
HSK100A.H100.WE16C	
HSK100A.H100.WE18C	
HSK100A.H100.WE20C	
HSK100A.H100.WE25C	
HSK100A.H100.WE32C	
HSK100A.H105.WE40C	

CORPO MANDRINO BILANCIATO G6,3/ 15000 g/min
BASE BODY BALANCED G6,3 / 15000 rpm



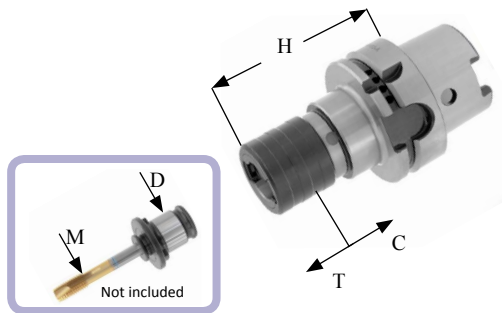
DIN 69893 HSK A

TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



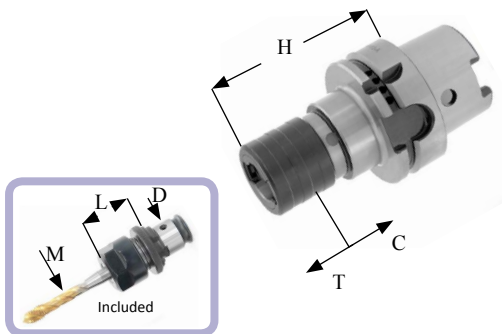
PORTAMASCHI A CAMBIO RAPIDO
CON COMPENSAZIONE ASSIALE
A TRAZIONE E COMPRESSIONE
*QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION*

	M	D	H	T	C
HSK63A.MCR1TC	M3÷M12	19	72	7,5	7,5
HSK63A.MCR2TC	M6÷M20	31	110	10	10
HSK100A.MCR2TC	M6÷M20	31	100	10	10



PORTAMASCHI A CAMBIO RAPIDO
CON COMPENSAZIONE ASSIALE
A TRAZIONE E COMPRESSIONE
*QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION*

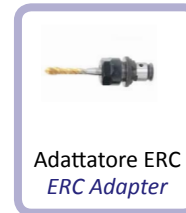
	M	D	H	L	T	C
HSK63A.ERC16TC	M3÷M12	19	72	30	7,5	7,5
HSK63A.ERC25TC	M5÷M16	31	110	38	10	10
HSK100A.ERC32TC	M6÷M20	31	100	42	10	10



INSERZIONI PORTAMASCHI SENZA FRIZIONE
TAPPING ADAPTERS WITHOUT CLUTCH

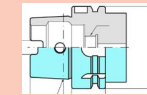


INSERZIONI PORTAMASCHI
CON FRIZIONE REGISTRABILE
TAPPING ADAPTERS WITH SAFETY CLUTCH



DIN 69893 HSK A

TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



PORTAFRESE COMBINATI COMBI SHELL END MILL HOLDERS

HSK50A.H50.D16C	
HSK50A.H60.D22C	
HSK50A.H60.D27C	

HSK63A.H60.D16C	
HSK63A.H100.D16C	
HSK63A.H60.D22C	
HSK63A.H100.D22C	
HSK63A.H60.D27C	
HSK63A.H100.D27C	
HSK63A.H60.D32C	
HSK63A.H100.D32C	
HSK63A.H70.D40C	
HSK63A.H100.D40C	

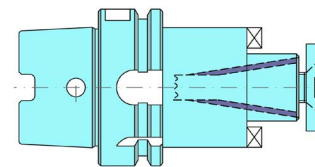
HSK100A.H60.D16C	
HSK100A.H60.D22C	
HSK100A.H60.D27C	
HSK100A.H60.D32C	
HSK100A.H70.D40C	



PORTAFRESE FISSI CON CANALI DI LUBRIFICAZIONE SHELL END MILL HOLDERS WITH COOLANT CHANNELS

HSK63A.H50.D16S	
HSK63A.H100.D16S	
HSK63A.H160.D16S	
HSK63A.H50.D22S	
HSK63A.H100.D22S	
HSK63A.H160.D22S	
HSK63A.H60.D27S	
HSK63A.H100.D27S	
HSK63A.H160.D27S	
HSK63A.H60.D32S	
HSK63A.H100.D32S	
HSK63A.H60.D40S	

HSK100A.H50.D16S	
HSK100A.H100.D16S	
HSK100A.H160.D16S	
HSK100A.H50.D22S	
HSK100A.H100.D22S	
HSK100A.H160.D22S	
HSK100A.H50.D27S	
HSK100A.H100.D27S	
HSK100A.H160.D27S	
HSK100A.H50.D32S	
HSK100A.H100.D32S	
HSK100A.H160.D32S	
HSK100A.H60.D40S	
HSK100A.H100.D40S	
HSK100A.H160.D40S	



PORTAFRESE FISSI SENZA CANALI DI LUBRIFICAZIONE SHELL END MILL HOLDERS WITHOUT COOLANT CHANNELS

HSK50A.H50.D16SH	
HSK50A.H50.D22SH	
HSK50A.H60.D27SH	

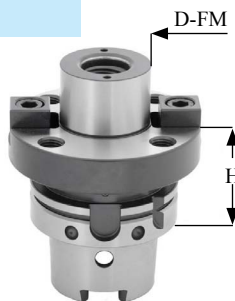
HSK63A.H50.D16SH	
HSK63A.H100.D16SH	
HSK63A.H50.D22SH	
HSK63A.H100.D22SH	
HSK63A.H60.D27SH	
HSK63A.H60.D32SH	
HSK63A.H60.D40SH	

DISPONIBILI FINO ALL'ESAURIMENTO
DELLE SCORTE
AVAILABLE TILL THE END OF STOCK
RESERVES



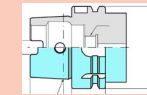
PORTAFRESE AD INSERTI FACE MILL HOLDERS

HSK63A.H60.D40FM	
HSK100A.H60.D40FM	
HSK100A.H70.D60FM	



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TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



MANDRINI PER FRESE FILETTATE TOOLHOLDERS FOR SCREWED MILLING CUTTERS

HSK63A.H59.M8CPY	
HSK63A.H84.M8CPY	
HSK63A.H109.M8CPY	
HSK63A.H134.M8CPY	
HSK63A.H59.M10CPY	
HSK63A.H84.M10CPY	
HSK63A.H109.M10CPY	
HSK63A.H134.M10CPY	
HSK63A.H59.M12CPY	
HSK63A.H84.M12CPY	
HSK63A.H109.M12CPY	
HSK63A.H134.M12CPY	
HSK63A.H59.M16CPY	
HSK63A.H84.M16CPY	
HSK63A.H109.M16CPY	
HSK63A.H134.M16CPY	



RIDUZIONE A CONO MORSE PER PUNTE MORSE TAPER ADAPTERS FOR DRILLS

HSK63A.H100.CM1P	
HSK63A.H120.CM2P	
HSK63A.H140.CM3P	
HSK63A.H160.CM4P	
HSK100A.H120.CM2P	
HSK100A.H150.CM3P	
HSK100A.H170.CM4P	
HSK100A.H200.CM5P	



CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE BODY BALANCED G2,5/ 20000 rpm

PROLUNGHE PER FRESE FILETTATE EXTENSIONS FOR SCREWED MILLING CUTTERS

D20.L75.M8CPY	
D20.L100.M8CPY	
D20.L125.M8CPY	
D20.L150.M8CPY	
D20.L75.M10CPY	
D20.L100.M10CPY	
D20.L125.M10CPY	
D20.L150.M10CPY	
D25.L81.M12CPY	
D25.L131.M12CPY	
D25.L181.M12CPY	
D32.L85.M16CPY	
D32.L135.M16CPY	
D32.L185.M16CPY	



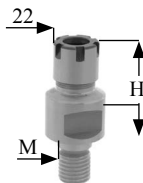
RIDUZIONI A CONO MORSE PER FRESE MORSE TAPER ADAPTERS FOR MILLS

	M
HSK63A.H100.CM1FV	6
HSK63A.H120.CM2FV	10
HSK63A.H140.CM3FV	12
HSK63A.H160.CM4FV	16
HSK100A.H120.CM2FV	10
HSK100A.H150.CM3FV	12
HSK100A.H170.CM4FV	16
HSK100A.H200.CM5FV	20



PORTAPINZE CON ATTACCO FILETTATO COLLET CHUCKS WITH SCREWED SHANK

M12.H50.ERC16M	
M16.H50.ERC16M	

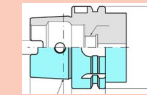


COPPIA DI SERRAGGIO CONSIGLIATA PER LE FRESE FILETTATE RECOMMENDED TIGHTENING TORQUE FOR SCREWED MILLS

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

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TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



MANDRINI PER IL CALETTAMENTO TERMICO SHRINK FIT HOLDERS

HSK40A.H60.TM3	
HSK40A.H60.TM4	
HSK40A.H60.TM5	
HSK40A.H80.TM6	
HSK40A.H80.TM8	
HSK40A.H80.TM10	
HSK40A.H90.TM12	

HSK50A.H80.TM3	
HSK50A.H80.TM4	
HSK50A.H80.TM5	
HSK50A.H80.TM6	
HSK50A.H80.TM8	
HSK50A.H85.TM10	
HSK50A.H90.TM12	
HSK50A.H90.TM14	
HSK50A.H90.TM16	

HSK63A.H80.TM3	
HSK63A.H80.TM4	
HSK63A.H80.TM5	
HSK63A.H80.TM6	
HSK63A.H120.TM6	
HSK63A.H160.TM6	
HSK63A.H80.TM8	
HSK63A.H120.TM8	
HSK63A.H160.TM8	
HSK63A.H85.TM10	
HSK63A.H120.TM10	
HSK63A.H160.TM10	
HSK63A.H90.TM12	
HSK63A.H120.TM12	
HSK63A.H160.TM12	
HSK63A.H90.TM14	
HSK63A.H95.TM16	
HSK63A.H120.TM16	
HSK63A.H160.TM16	
HSK63A.H95.TM18	
HSK63A.H100.TM20	
HSK63A.H120.TM20	
HSK63A.H160.TM20	
HSK63A.H115.TM25	

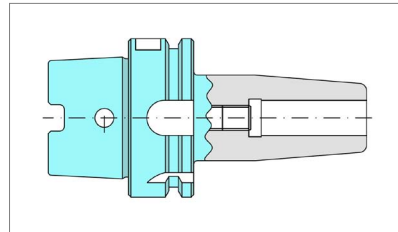
CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE BODY BALANCED G2,5/ 20000 rpm

CARATTERISTICHE DEI MANDRINI

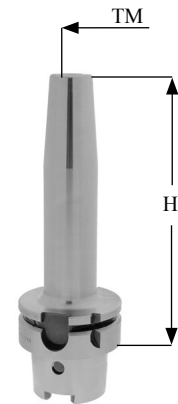
- COSTRUITI IN ACCIAIO
CON RESISTENZA DI 1600/1800 N/mm²
- DUREZZA RC52 + 2
- TEMPERATURA DI RISCALDO MAX 500°C
- TOLLERANZA DEL GAMBO
DELL'UTENSILE DA CALETTARE "h6"
- REGOLAZIONE ASSIALE UTENSILE 10mm

FEATURES OF SHRINK HOLDERS

- PRODUCED IN STEEL WITH TENSILE
STRENGTH 1600/1800 N/mm²
- HARDNESS RE52 + 2
- SHRINKING TEMPERATURE MAX 500°C
- TOOL SHANK TOLERANCE "h6"
- LENGTH ADJUSTMENT OF TOOL 10mm



I MANDRINI CON CANALI DI LUBRIFICAZIONE
SONO FORNIBILI A RICHIESTA
THE TOOLHOLDERS WITH COOLANT CHANNELS
ARE SUPPLIED ON REQUEST



PROLUNGHE PER CALETTAMENTO TERMICO SHRINK FIT EXTENSIONS

D20.L150.TM3	
D20.L150.TM4	
D20.L150.TM5	
D20.L150.TM6	
D20.L150.TM8	
D20.L150.TM10	
D20.L150.TM12	



UNITA' DI CALETTAMENTO AD INDUZIONE NEW SHRINK FIT UNIT



UNITA' DI CALETTAMENTO AD INDUZIONE
NEW SHRINK FIT UNIT

ELCO.START2



ADATTA PER UTENSILI DAL Dia 2 AL Dia 40mm
SIA IN METALLO DURO CHE IN HSS.
DIAMETRO DEL PASSAGGIO ANELLO
INDUTTORE 64mm.
L'INDUTTORE RUOTA DI 180° SENZA SMONTARLO.
DIMENSIONI 255x490x755mm - PESO 20Kg.
ALIMENTAZIONE 3x380/480V-50/60.Hz-16A-14KW.

*SUITABLE FOR CARBIDE AND HSS TOOLS FROM Dia
2 UP TO Dia 40mm BORE SIZE OF THE INDUCTOR
64mm.*

*180° UPSIDE DOWN ROTATION OF THE INDUCTOR
WITHOUT DISMANTLING.*

*DIMENSIONS 255x490x755mm - WEIGHT 20Kg.
POWER SUPPLY 3x380/480V-50/60.Hz-16A-14KW.*

FORNITA CON:
SUPPLIED WITH:

- 1 PC INDUCTOR STOP RING D.6-12 - FE100.6÷12
- 1 PC INDUCTOR STOP RING D.14-20 - FE100.14÷16
- 1 TOOLHOLDER ADAPTER FE 100.HSK63
- 1 PAIR OF KEWLAR GLOVES

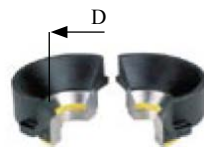
ANELLO INDUTTORE
INDUCTOR STOP RING

FE100.D2		2÷5
FE100.D6		6÷12
FE100.D14		14÷20
FE100.D25		25÷32
FE100.D40		40



ANELLO INDUTTORE APERTO
SPLIT INDUCTOR STOP RING

FE200.D2		2/5
FE200.D6		6/12
FE200.D14		14/20
FE200.D25		25/32
FE200.D40		40



ADATTATORE PER PORTAUTENSILE
TOOL HOLDER ADAPTER

FE100.HSK40		
FE100.HSK50		
FE100.HSK63		
FE100.HSK80		
FE100.HSK100		

FE100.SK+BT30		
FE100.SK+BT40		
FE100.SK+BT50		



UNITA' DI RAFFREDDAMENTO AD ARIA
AIR COOLING UNIT

FG100.1210



- COMANDATA DALL'UNITA' ELCO-START2 OPPURE
MANUALMENTE(OPTIONAL)
- ALIMENTAZIONE PNEUMATICA 4-6 bar
- TEMPI DI RAFFREDDAMENTO DA 1,5 A 3 min.

- CONTROLLED BY THE ELCO-START2 UNIT
OR AN OPTIONAL CONTROL BOX.
- PNEUMATIC POWER SUPPLY 4-6 bar.
- COOLING TIME FROM 1,5 UP TO 3min.

ANELLO PER UNITA' DI RAFFREDDAMENTO
COOLING STOP RING

FR500.050		2÷5
FR500.120		6÷12
FR500.200		14÷20
FR500.320		25÷32
FR500.400		40



MANDRINI PER IL CALETTAMENTO TERMICO
SHRINK FIT HOLDERS



HSK



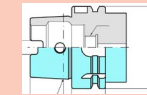
TC



BT

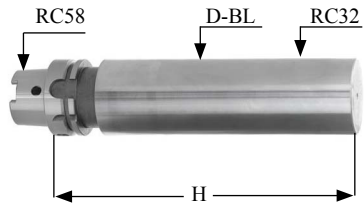
DIN 69893 HSK A

TABELLA DIMENSIONI HSK-A HSK-A DIMENSIONS TABLE



MANDRINI A STELO LAVORABILE MACHINABLE BLANK ARBORS

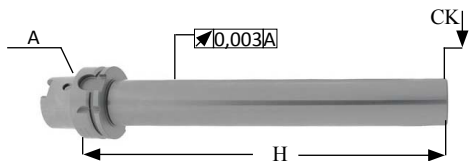
HSK63A.H250.D80BL	
HSK80A.H250.D80BL	
HSK100A.H250.D97BL	



COSRUITI IN ACCIAIO 20MnCr5.
A RICHIESTA IN ACCIAIO 25CrMo4.
MANUFACTURED WITH 20MnCr5 STEEL.
ON REQUEST WITH 25CrMo4 STEEL.

MANDRINI DI COLLAUDO ISO-R230 RECOMMENDATION

HSK63A.H300.CK40	
HSK80A.H300.CK40	
HSK100A.H300.CK50	



FORNITI IN CASSETTA DI LEGNO E CON CERTIFICATO
DI COLLAUDO.
SUPPLIED IN WOODEN BOX AND TESTING REPORT.

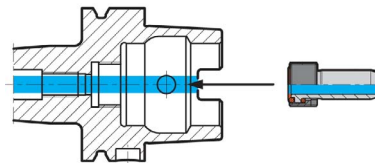
RACCORDI PER REFFRIGERANTE HSK-COOLING TUBE

HSK40.CFM12	
HSK50.CFM16	
HSK63.CFM18	
HSK80.CFM20	
HSK100.CFM24	



CHIAVI PER RACCORDI HSK-COOLING TUBE WRENCHES

HSK40.SP11	
HSK50.SP15	
HSK63.SP17	
HSK80.SP19	
HSK100.SP22	



PORTAUTENSILI MODULARI SISTEMA VARILOCK FORNITI CON RACCORDO DEL REFFRIGERANTE MODULAR TOOL HOLDERS VARILOCK SYSTEM SUPPLIED WITH COOLING TUBE

HSK63A.H80.D50MD	
HSK63A.H90.D63MD	
HSK100A.H85.D50MD	
HSK100A.H95.D63MD	
HSK100A.H95.D80MD	



ADATTATORI MODULARI DI ESTENSIONE MODULAR EXTENSION ADAPTERS



ADATTATORI MODULARI PORTAPINZE MODULAR COLLET CHUCK ADAPTERS



ADATTATORI MODULARI PER FRESE WELDON MODULAR END MILL ADAPTERS



Montaconi
Assembly device
Pag 7-5

Raccordi per
Refrigerante
Cooling Tube
Pag 1-12

VARILOCK IS A TRADEMARK OF "SANDVIK AB"
AND IS USED HERE ONLY FOR IDENTIFICATION PURPOSE

ADATTATORI MODULARI DI ESTENSIONE
MODULAR EXTENSION ADAPTERS

MD50.H60.MD50	
MD50.H100.MD50	
MD63.H80.MD63	
MD63.H120.MD63	



ADATTATORI MODULARI PORTAPINZE
MODULAR COLLET CHUCK ADAPTERS

MD50.H65.ERC32	
MD63.H77.ERC32	
MD63.H86.ERC40	



ADATTATORI MODULARI PER FRESE WELDON
MODULAR END MILL ADAPTERS

MD50.H50.WE6	
MD50.H50.WE8	
MD50.H50.WE10	
MD50.H60.WE12	
MD50.H60.WE14	
MD50.H60.WE16	
MD50.H60.WE18	
MD50.H60.WE20	

MD63.H70.WE6	
MD63.H70.WE8	
MD63.H70.WE10	
MD63.H70.WE12	
MD63.H70.WE14	
MD63.H70.WE16	
MD63.H70.WE18	
MD63.H70.WE20	
MD63.H80.WE25	
MD63.H80.WE32	



VARILOCK IS A TRADEMARK OF "SANDVIK AB"
AND IS USED HERE ONLY FOR IDENTIFICATION PURPOSE

PORTAUTENSILI MODULARI SISTEMA VARILOCK
MODULAR TOOL HOLDERS VARILOCK SYSTEM



HSK

PORTAUTENSILI MODULARI SISTEMA VARILOCK
MODULAR TOOL HOLDERS VARILOCK SYSTEM

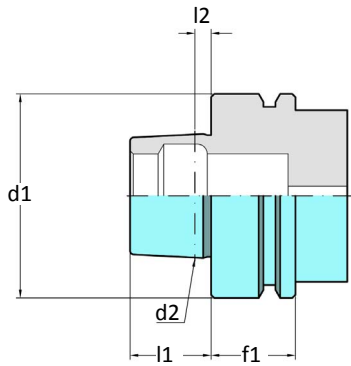


TC

PORTAUTENSILI MODULARI SISTEMA VARILOCK
MODULAR TOOL HOLDERS VARILOCK SYSTEM



BT



DIMENSIONI ATTACCHI HSK-E HSK-E SHANK DETAILS

HSK d1	d2	f1	l1	l2
50E	38	26	25	5
63E	48	26	32	6,3

MANDRINI PER FRESE WELDON END MILL HOLDERS

HSK50E.H65.WE6	
HSK50E.H65.WE8	
HSK50E.H65.WE10	
HSK50E.H80.WE12	
HSK50E.H80.WE14	
HSK50E.H80.WE16	

HSK63E.H65.WE6	
HSK63E.H65.WE8	
HSK63E.H70.WE10	
HSK63E.H80.WE12	
HSK63E.H80.WE14	
HSK63E.H80.WE16	
HSK63E.H80.WE18	
HSK63E.H80.WE20	



CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE-BODY BALANCED G2,5 / 20000 rpm

MANDRINI PER IL CALETTAMENTO TERMICO SHRINK FIT HOLDERS

HSK50E.H80.TM3	
HSK50E.H80.TM4	
HSK50E.H80.TM5	
HSK50E.H80.TM6	
HSK50E.H80.TM8	
HSK50E.H85.TM10	
HSK50E.H90.TM12	
HSK50E.H90.TM14	
HSK50E.H95.TM16	

HSK63E.H80.TM3	
HSK63E.H80.TM4	
HSK63E.H80.TM5	
HSK63E.H80.TM6	
HSK63E.H80.TM8	
HSK63E.H85.TM10	
HSK63E.H90.TM12	
HSK63E.H90.TM14	
HSK63E.H95.TM16	
HSK63E.H95.TM18	
HSK63E.H100.TM20	



CORPO MANDRINO BILANCIATO G2,5/ 25000 g/min
BASE-BODY BALANCED G2,5 / 25000 rpm



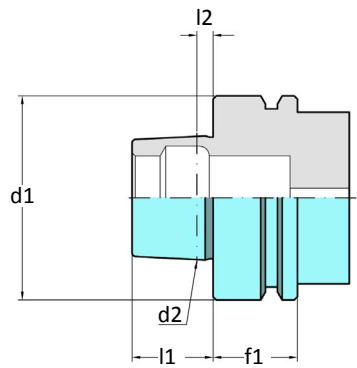
PORTAPINZE COLLET CHUCKS

HSK50E.H100.ERC16	28
HSK50E.H70.ERC25	42
HSK50E.H80.ERC32	50

HSK63E.H73.ERC32	50
HSK63E.H100.ERC32	50
HSK63E.H73.ERC40	63
HSK63E.H100.ERC40	63
HSK63E.H120.ERC40	63



CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE-BODY BALANCED G2,5 / 20000 rpm



DIMENSIONI ATTACCHI HSK-F
HSK-F SHANK DETAILS

HSK d1	d2	f1	l1	l2
63F	38	26	25	5

MANDRINI PER FRESE WELDON
END MILL HOLDERS

HSK63F.H65.WE6	
HSK63F.H65.WE8	
HSK63F.H65.WE10	
HSK63F.H80.WE12	
HSK63F.H80.WE14	
HSK63F.H80.WE16	
HSK63F.H80.WE18	
HSK63F.H80.WE20	

CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE-BODY BALANCED G2,5 / 20000 rpm



PORTAFRESE FISSI
SHELL END MILL HOLDERS

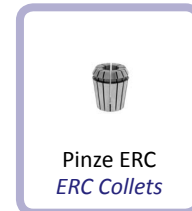
HSK63F.H50.D16S	
HSK63F.H50.D22S	
HSK63F.H60.D27S	

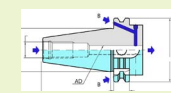


PORTAPINZE
COLLET CHUCKS

HSK63F.H70.ERC20	34
HSK63F.H100.ERC20	34
HSK63F.H70.ERC25	42
HSK63F.H100.ERC25	42
HSK63F.H73.ERC32	50
HSK63F.H100.ERC32	50
HSK63F.H78.ERC40	63
HSK63F.H100.ERC40	63

CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE-BODY BALANCED G2,5 / 20000 rpm





PORTAPINZE
COLLET CHUCKS



MANDRINI IDRAULICI
HYDRAULIC EXPANSION CHUCKS



PORTAMASCHI
TAP HOLDERS



RIDUZIONI A CONO MORSE
PER PUNTE
MORSE TAPER ADAPTERS FOR DRILLS



MANDRINI DI COLLAUDO
TEST ARBORS



PORTAPINZE
COLLET CHUCKS



MANDRINI AUTOSERRANTI
DRILL CHUCKS



PORTAFRESE COMBINATI
COMBI SHELL END MILL HOLDERS



RIDUZIONI A CONO MORSE
PER FRESE
MORSE TAPER ADAPTERS FOR MILLS



DISTRIBUTORE ROTANTE
DI REFFRIGERANTE
ROTARY COOLANT FEEDER



PORTAPINZE EXTRACORTI
SHORTY COLLET



ADATTATORI DA CONO TC A HSK
ADAPTERS FROM TC SHANK TO HSK



PORTAFRESA AD INSERTI
FACE MILL HOLDERS



MANDRINI DI RIDUZIONE TC-SK
TC-SK REDUCTION SLEEVES



PORTAUTENSILI MODULARI
SISTEMA VARILOCK
MODULAR TOOLHOLDERS
VARILOCK SYSTEM



PORTAPINZE A CENTRATURA
RADIALE REGOLABILE
RADIAL ADJUSTABLE COLLET CHUCKS



MANDRINI PER FRESE WELDON
END MILL HOLDERS



PORTAFRESE FISSI
SHELL END MILL HOLDERS



MANDRINI A STELO LAVORABILE
MACHINABLE BLANK ARBORS



TIRANTI
PULL STUDS BOLT



PORTAPINZE PER PINZE EOC
EOC COLLET CHUCKS



MANDRINI WHISTLE-NOTCH
WHISTLE-NOTCH END MILL HOLDERS



MANDRINI PER FRESE FILETTATE
TOOLHOLDERS
FOR SCREWED MILLING CUTTERS



CAT-METRIC



MANDRINI A FORTE SERRAGGIO
POWER MILLING CHUCKS



MANDRINI PORTA INSERZIONI
REGISTRABILI DIN6327
AUTOMOTIVE SHANK ADAPTERS

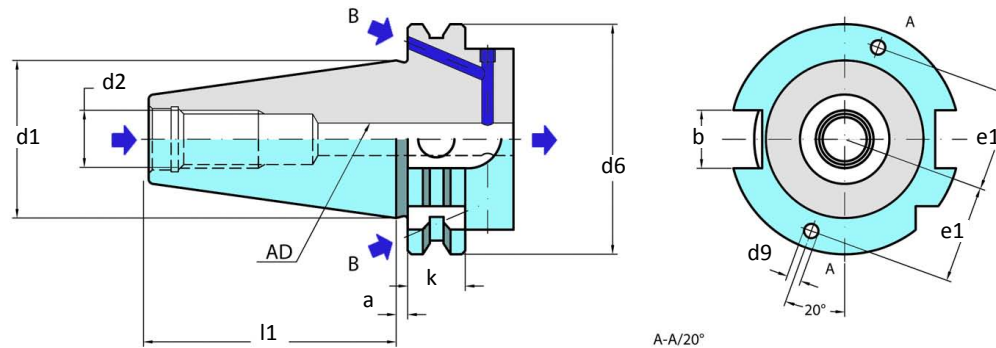


MANDRINI PER IL
CALETTAMENTO TERMICO
SHRINK FIT HOLDERS

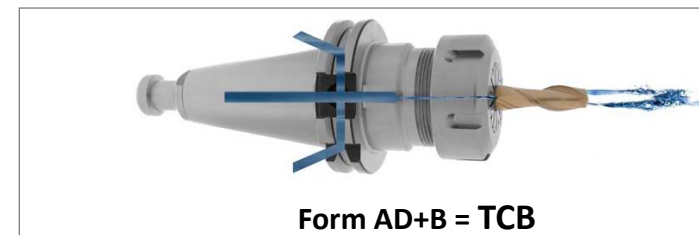
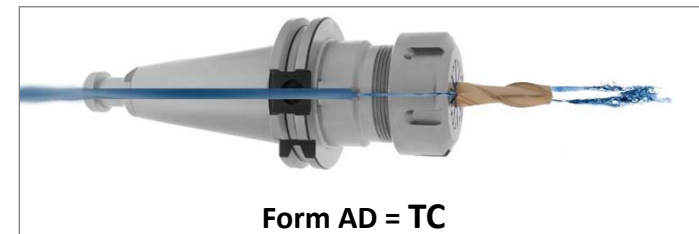


CAT-ANSI





DIMENSIONI ATTACCHI TC-DIN69871											
TC-DIN69871 SHANK DETAILS											
TAPER	FORM	d1	d2	d6	l1	a	k	f3	b	d9	e1
TC 30	AD	31,75	M12	50	47,8	3,2	15,9	35	16,1		
TCB 40	AD+B	44,45	M16	63,55	68,40	3,2	15,9	35	16,1	4	27
TCB 45	AD+B	57,15	M20	82,55	82,7	3,2	15,9	35	19,3	5	35
TCB 50	AD+B	69,85	M24	97,50	101,75	3,2	15,9	35	25,7	6	42

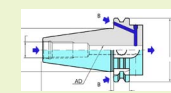


I MANDRINI TC SONO COSTRUITI IN ACCIAIO 20MnCr5.
SONO CEMENTATI CON UNA PROFONDITA' MINIMA DI 0,6/0,8 mm.
LA DUREZZA SUPERFICIALE E' DI 58 +/-2 HRC.
SONO BRUNITI E RETTIFICATI CON PRECISIONE AT3 PER IL CONO D'ATTACCO.
LA RUGOSITA' MAX E' 0,001mm.

TC TOOLHOLDERS ARE MANUFACTURED WITH 20MnCr5 CASE HARDENED STEEL.
THE MINIMUM DEPTH OF CASE IS 0,6/0,8mm.
SURFACE HARDNESS: 58 +/-2 Rc.
THE ACCURACY OF THE SHANK TAPER IS AT3.
THE SURFACE ROUGHNESS IS MAX 0,001mm.

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE

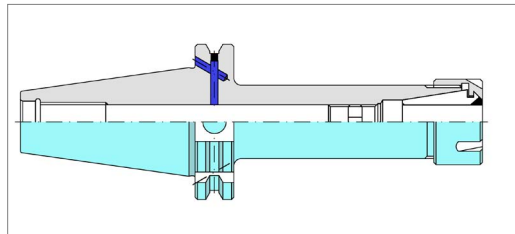


PORTAPINZE MINI MINI COLLET CHUCKS

TCB40.H100.ERC11M	16
TCB40.H125.ERC11M	16
TCB40.H150.ERC11M	16
TCB40.H70.ERC16M	22
TCB40.H100.ERC16M	22
TCB40.H125.ERC16M	22
TCB40.H150.ERC16M	22
TCB40.H100.ERC20M	28
TCB40.H135.ERC20M	28
TCB40.H150.ERC20M	28
TCB40.H100.ERC25M	35
TCB40.H150.ERC25M	35
TCB40.H200.ERC25M	35

TCB50.H130.ERC16M	22
TCB50.H160.ERC16M	22
TCB50.H200.ERC16M	22
TCB50.H130.ERC20M	28
TCB50.H130.ERC25M	35
TCB50.H160.ERC25M	35

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min BASE BODY BALANCED G6,3/ 12000 rpm



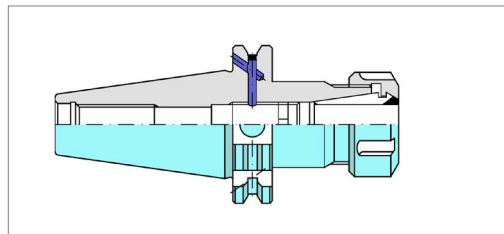
PORTAPINZE COLLET CHUCKS

TC30.H63.ERC16	28
TC30.H100.ERC16	28
TC30.H63.ERC20	34
TC30.H63.ERC25	42
TC30.H90.ERC25	42
TC30.H63.ERC32	50
TC30.H100.ERC32	50

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min BASE BODY BALANCED G6,3/ 12000 rpm



CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min BASE BODY BALANCED G6,3/ 12000 rpm

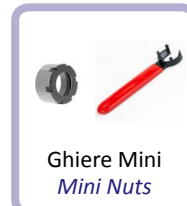


I PORTAUTENSILI TC POSSONO ESSERE BILANCIATI A RICHIESTA IN GRADO G2,5/30.000 g/min. PER LE MASSIME VELOCITA' DI ROTAZIONE CONSIGLIAMO LA BILANCIATURA DEL MANDRINO CON L'UTENSILE MONTATO.

FINE BALANCING OF TC TOOLS UP TO 30.000 rpm IS POSSIBLE ON REQUEST. FOR THE MAX rpm WE SUGGEST TO BALANCE THE TOOLHOLDER TOGETHER WITH THE CUTTING TOOL.

PORTAPINZE COLLET CHUCKS

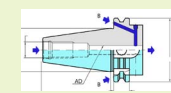
TCB40.H70.ERC16	28
TCB40.H100.ERC16	28
TCB40.H120.ERC16	28
TCB40.H130.ERC16	28
TCB40.H150.ERC16	28
TCB40.H160.ERC16	28
TCB40.H200.ERC16	28
TCB40.H70.ERC20	34
TCB40.H100.ERC20	34
TCB40.H120.ERC20	34
TCB40.H150.ERC20	34
TCB40.H70.ERC25	42
TCB40.H100.ERC25	42
TCB40.H130.ERC25	42
TCB40.H160.ERC25	42
TCB40.H200.ERC25	42
TCB40.H47.ERC32	50
TCB40.H70.ERC32	50
TCB40.H100.ERC32	50
TCB40.H130.ERC32	50
TCB40.H160.ERC32	50
TCB40.H200.ERC32	50
TCB40.H70.ERC40	63
TCB40.H100.ERC40	63
TCB40.H120.ERC40	63
TCB40.H130.ERC40	63
TCB40.H150.ERC40	63
TCB40.H200.ERC40	63
TCB40.H85.ERC50	78
TC40.H120.ERC50	78



TC ERC
2/2

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



PORTAPINZE COLLET CHUCKS

TCB45.H80.ERC32	50
TCB45.H100.ERC32	50
TCB45.H80.ERC40	63

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



I PORTAUTENSILI TC POSSONO ESSERE BILANCIATI A RICHIESTA IN GRADO G2,5/30.000 g/min. PER LE MASSIME VELOCITA' DI ROTAZIONE CONSIGLIAMO LA BILANCIATURA DEL MANDRINO CON L'UTENSILE MONTATO.

*FINE BALANCING OF TC TOOLS UP TO 30.000 rpm IS POSSIBLE ON REQUEST.
FOR THE MAX rpm WE SUGGEST TO BALANCE THE TOOLHOLDER TOGETHER WITH THE CUTTING TOOL.*

PORTAPINZE COLLET CHUCKS

TCB50.H100.ERC16	28
TCB50.H160.ERC16	28
TCB50.H200.ERC16	28
TCB50.H100.ERC20	34
TCB50.H160.ERC20	34
TCB50.H80.ERC25	42
TCB50.H100.ERC25	42
TCB50.H130.ERC25	42
TCB50.H160.ERC25	42
TCB50.H200.ERC25	42
TCB50.H80.ERC32	50
TCB50.H100.ERC32	50
TCB50.H130.ERC32	50
TCB50.H160.ERC32	50
TCB50.H200.ERC32	50
TCB50.H250.ERC32	50
TCB50.H80.ERC40	63
TCB50.H100.ERC40	63
TCB50.H130.ERC40	63
TCB50.H160.ERC40	63
TCB50.H200.ERC40	63
TCB50.H100.ERC50	78
TCB50.H130.ERC50	78
TCB50.H160.ERC50	78

CORPO MANDRINO BILANCIATO G6,3/ 10000g/min
BASE BODY BALANCED G6,3/ 10000 rpm



Montaconi
Assembly device



Pinze ERC
ERC Collets



Ghiere Mini
Mini Nuts



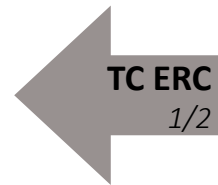
Ghiere Esagonali
Exagonal Nuts

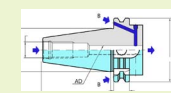


Ghiere Standard
Standard Nuts



Tiranti
Pull Studs





PORTAPINZE MINI MINI COLLET CHUCKS

TCB40.H100.ERC11MNF	16
TCB40.H100.ERC16MNF	24
TCB40.H125.ERC16MNF	24
TCB40.H100.ERC20MNF	30
TCB40.H100.ERC25MNF	37

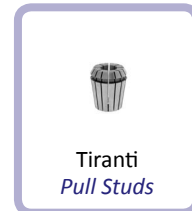
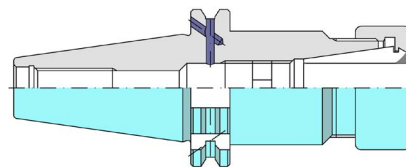
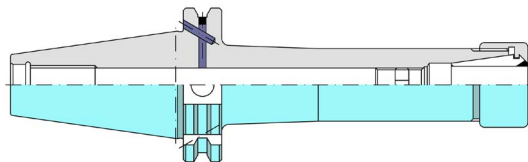
CORPO MANDRINO BILANCIATO G2,5/ 25000 g/min
BASE BODY BALANCED G2,5/ 25000 rpm

PORTAPINZE COLLET CHUCKS

TCB40.H100.ERC16NF	32
TCB40.H130.ERC16NF	32
TCB40.H100.ERC20NF	35
TCB40.H130.ERC20NF	35
TCB40.H100.ERC25NF	42
TCB40.H130.ERC25NF	42
TCB40.H100.ERC32NF	50
TCB40.H130.ERC32NF	50

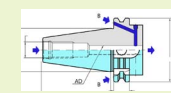
CORPO MANDRINO BILANCIATO G2,5/ 25000 g/min
BASE BODY BALANCED G2,5/ 25000 rpm

PORTAPINZE CON GHIERE SENZA TACCHE DI TRASCINAMENTO
COLLET CHUCKS WITH NOTCH FREE NUTS



DIN 69871 TC

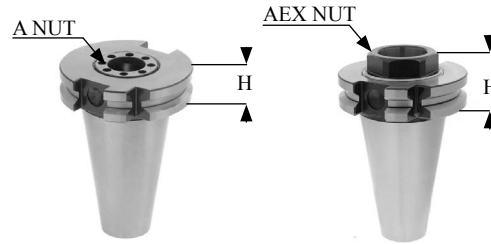
TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



PORTAPINZE EXTRACORTI SHORTY COLLET CHUCKS

TC40.H21.ERC25A	
TC40.H21.ERC32A	
TC50.H21.ERC32A	
TCB40.H40.ERC32A	
TCB40.H47.ERC32AEX	
TCB50.H40.ERC32A	
TCB50.H47.ERC32AEX	

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



PORTAPINZE A CENTRATURA RADIALE REGOLABILE RADIAL ADJUSTABLE COLLET CHUCKS

	A
TCB40.H96.ERC25RG	42
TCB40.H97.ERC32RG	50
TCB40.H133.ERC40RG	63
TCB50.H97.ERC32RG	50

PERMETTE DI ALLINEARE L'UTENSILE E IL PEZZO IN
LAVORAZIONE CON LA TOLLERANZA DI 0,01mm
BY USING THE CHUCK RG, THE RUNOUT OF THE
CUTTING TOOL CAN BE ADJUSTED TO 0,01mm



PORTAPINZE PER PINZE EOC EOC COLLET CHUCKS

	A
TC30.H60.EOC16	43
TC30.H80.EOC25	60
TCB40.H70.EOC16	43
TCB40.H100.EOC16	43
TCB40.H70.EOC25	60
TCB40.H100.EOC25	60
TCB40.H90.EOC32	72
TCB50.H70.EOC16	43
TCB50.H70.EOC25	60
TCB50.H100.EOC25	60
TCB50.H80.EOC32	72

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



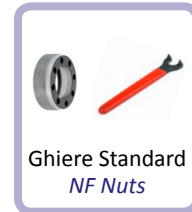
Montaconi
Assembly device



Pinze ERC
ERC Collets



Ghiere Standard
NF Nuts



Ghiere Standard
NF Nuts



Pinze EOC
EOC Collets



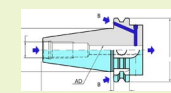
Ghiere EOC
EOC Nuts



Tiranti
Pull Studs

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE

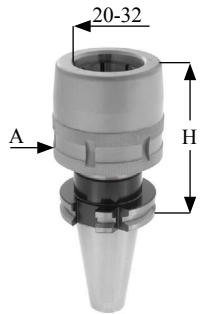


MANDRINI A FORTE SERRAGGIO - FORMA AD POWER MILLING CHUCKS - FORM AD

	A
TC40.H90.MC20	56
TC40.H105.MC32	70

TC50.H105.MC20	56
TC50.H110.MC32	70

CORPO MANDRINO BILANCIATO G6,3/ 8000 g/min BASE BODY BALANCED G6,3/ 8000 rpm



MANDRINI A FORTE SERRAGGIO - FORMA AD+B POWER MILLING CHUCKS - FORM AD+B

	A
TCB40.H75.MCP20	46
TCB40.H95.MCP32	62

TCB50.H85.MCP20	46
TCB50.H85.MCP32	62

CORPO MANDRINO BILANCIATO G6,3/ 8000 g/min BASE BODY BALANCED G6,3/ 8000 rpm



PINZE PER MANDRINI A FORTE SERRAGGIO COLLETS FOR POWER MILLINGS CHUCKS



Pinze 3SR20
3SR20 Collets



Pinze 3SR32
3SR32 Collets



Pinze 4SR20
4SR20 Collets



Pinze 4SR32
4SR32 Collets



CASSETTE CON MANDRINI A FORTE SERRAGGIO POWER MILLING CHUCKS KITS

CON PINZE 3SR20 COLLETS 3SR20	D.6-8-10-12-16 D.6-8-10-12-16
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BX.TC40.MC20	
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BX.TC50.MC20	
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CON PINZE 3SR32 COLLETS 3SR32	D.6-8-10-12-16-20-25 D.6-8-10-12-16-20-25
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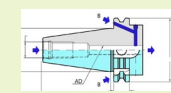
BX.TC40.MC32	
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BX.TC50.MC32	
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DIN 69871 TC

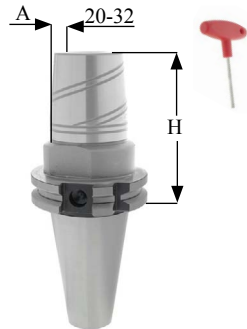
TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



MANDRINI IDRAULICI HYDRAULIC EXPANSION CHUCKS

	A
TCB40.H65.D20HYE	50
TCB40.H80.D20HYE	42
TCB40.H95.D32HYE	56

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm



PINZE A TENUTA DEL REFRIGERANTE PER MANDRINI IDRAULICI SEALED COLLETS FOR HYDRAULIC CHUCKS



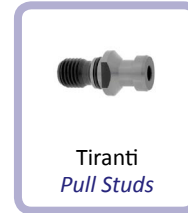
Pinze SR20
SR20 Collets



Pinze SR32
SR32 Collets



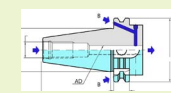
Montaconi
Assembly device



Tiranti
Pull Studs

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



ATTACCHI PER MANDRINI AUTOSERRANTI DRILL CHUCKS ARBORS

TC30.H25.B12	
TC30.H25.B16	
TC40.H40.B12	
TC40.H40.B16	
TC40.H40.B18	
TC50.H40.B16	
TC50.H40.B18	



MANDRINI AUTOSERRANTI CON CHIAVE ESAGONALE HEX KEY LOCK DRILL CHUCKS TITANIUM JAWS

TC40.H115.CP13	
TC40.H120.CP16	
TC50.H103.CP13	
TC50.H108.CP16	



MANDRINI AUTOSERRANTI DI RICAMBIO REPLACEMENT DRILL CHUCK HEADS

CP13.MT3	
CP16.MT3	



MANDRINI AUTOSERRANTI CON CHIAVE ESAGONALE E PASSAGGIO REFRIGERANTE HEX KEY DRILL CHUCKS WITH COOLANT THROUGH

TC40.H90.HD13	
TC40.H95.HD16	
TC50.H90.HD13	
TC50.H95.HD16	



MANDRINI AUTOSERRANTI CON CHIAVE DRILL CHUCKS WITH HOOK WRENCH

TC30.H80.DCK8	
TC40.H75.DCK8	
TC40.H100.DCK13	
TC40.H115.DCK16	
TC50.H88.DCK13	
TC50.H106.DCK16	



MANDRINI AUTOSERRANTI DI RICAMBIO REPLACEMENT DRILL CHUCK HEADS

DCK8.MT25	
DCK13.MT3S	
DCK16.MT3S	



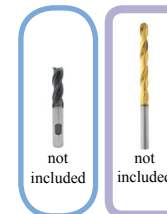
CHIAVI DI RICAMBIO WRENCHES

CH.DCK10	
CH.DCK12	
CH.DCK13	
CH.DCK16	
CH.CP13.16	
CH.HD13.16	



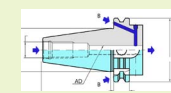
MANDRINI AUTOSERRANTI DI RICAMBIO ATTACCO FILETTATO M43,5x1,0 REPLACEMENT DRILL CHUCK HEADS THREAD MOUNTING M43,5x1,0

HD 13	
HD 16	



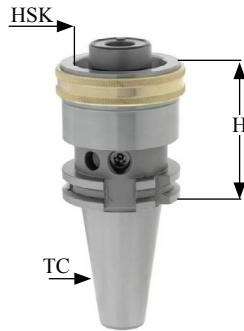
DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



ADATTATORI DA CONO TC A HSK ADAPTERS FROM TC SHANK TO HSK

TCB40.H60.HSK40AC	
TCB40.H65.HSK50AC	
TCB40.H75.HSK63AC	
TCB50.H60.HSK40AC	
TCB50.H65.HSK50AC	
TCB50.H75.HSK63AC	
TCB50.H85.HSK80AC	
TCB50.H100.HSK100AC	

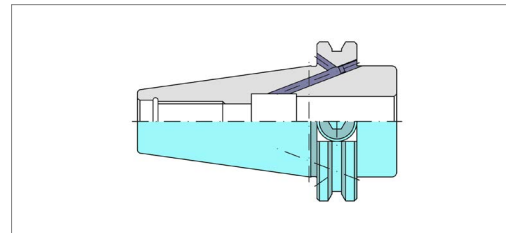


MANDRINI EXTRACORTI PER FRESE WELDON STUB END MILL HOLDERS

TC30.H35.WE16	
TC30.H35.WE20	
TCB40.H35.WE16	
TCB40.H35.WE20	
TCB40.H35.WE25	
TCB40.H60.WE25	
TCB40.H40.WE32	
TCB40.H70.WE32	
TCB50.H35.WE16	
TCB50.H35.WE20	
TCB50.H35.WE25	
TCB50.H35.WE32	
TCB50.H35.WE40	



CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm

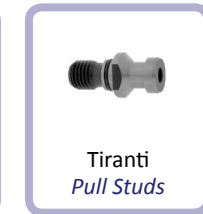


MANDRINI PER FRESE WELDON END MILL HOLDERS

TC30.H50.WE6	
TC30.H50.WE8	
TC30.H50.WE10	
TC30.H50.WE12	
TC30.H63.WE14	
TC30.H63.WE16	
TC30.H63.WE18	
TC30.H70.WE20	
TC30.H100.WE20	



CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3 / 12000 rpm



TC WE-RG

TC WE-C

TC WE
2/3

TC WE
3/3

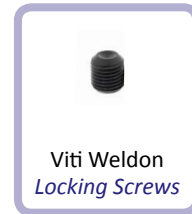
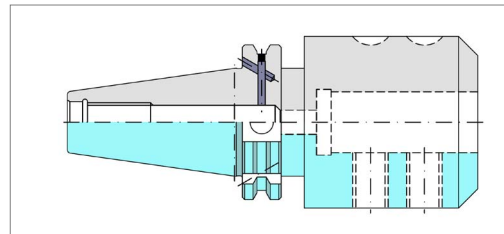
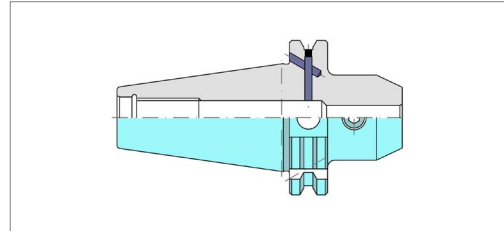
DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



MANDRINI PER FRESE WELDON
END MILL HOLDERS

TCB40.H50.WE6	
TCB40.H100.WE6	
TCB40.H130.WE6	
TCB40.H160.WE6	
TCB40.H200.WE6	
TCB40.H50.WE8	
TCB40.H100.WE8	
TCB40.H130.WE8	
TCB40.H160.WE8	
TCB40.H200.WE8	
TCB40.H50.WE10	
TCB40.H100.WE10	
TCB40.H130.WE10	
TCB40.H160.WE10	
TCB40.H200.WE10	
TCB40.H50.WE12	
TCB40.H100.WE12	
TCB40.H130.WE12	
TCB40.H160.WE12	
TCB40.H200.WE12	
TCB40.H50.WE14	
TCB40.H100.WE14	
TCB40.H130.WE14	
TCB40.H160.WE14	
TCB40.H200.WE14	
TCB40.H63.WE16	
TCB40.H100.WE16	
TCB40.H130.WE16	
TCB40.H160.WE16	
TCB40.H200.WE16	
TCB40.H63.WE18	
TCB40.H100.WE18	
TCB40.H130.WE18	
TCB40.H160.WE18	
TCB40.H200.WE18	
TCB40.H63.WE20	
TCB40.H100.WE20	
TCB40.H130.WE20	
TCB40.H160.WE20	
TCB40.H200.WE20	
TCB40.H100.WE25	
TCB40.H130.WE25	
TCB40.H160.WE25	
TCB40.H100.WE32	
TCB40.H130.WE32	
TCB40.H160.WE32	
TCB40.H120.WE40	



TC WE-RG

TC WE-C

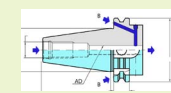
TC WE
3/3

TC WE
1/3

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



MANDRINI PER FRESE WELDON END MILL HOLDERS

TCB50.H63.WE6	
TCB50.H100.WE6	
TCB50.H130.WE6	
TCB50.H160.WE6	
TCB50.H200.WE6	
TCB50.H63.WE8	
TCB50.H100.WE8	
TCB50.H130.WE8	
TCB50.H160.WE8	
TCB50.H200.WE8	
TCB50.H63.WE10	
TCB50.H100.WE10	
TCB50.H130.WE10	
TCB50.H160.WE10	
TCB50.H200.WE10	
TCB50.H63.WE12	
TCB50.H100.WE12	
TCB50.H130.WE12	
TCB50.H160.WE12	
TCB50.H200.WE12	
TCB50.H63.WE14	
TCB50.H100.WE14	
TCB50.H130.WE14	
TCB50.H160.WE14	
TCB50.H200.WE14	
TCB50.H63.WE16	
TCB50.H100.WE16	
TCB50.H130.WE16	
TCB50.H160.WE16	
TCB50.H200.WE16	
TCB50.H63.WE18	
TCB50.H100.WE18	
TCB50.H130.WE18	
TCB50.H160.WE18	
TCB50.H200.WE18	



CORPO MANDRINO BILANCIATO G6,3/ 10000 g/min
BASE BODY BALANCED G6,3/ 10000 rpm

MANDRINI PER FRESE WELDON END MILL HOLDERS

TCB50.H63.WE20	
TCB50.H100.WE20	
TCB50.H130.WE20	
TCB50.H160.WE20	
TCB50.H200.WE20	
TCB50.H250.WE20	
TCB50.H80.WE25	
TCB50.H100.WE25	
TCB50.H130.WE25	
TCB50.H160.WE25	
TCB50.H200.WE25	
TCB50.H250.WE25	
TCB50.H100.WE32	
TCB50.H130.WE32	
TCB50.H160.WE32	
TCB50.H200.WE32	
TCB50.H250.WE32	
TCB50.H112.WE40	
TCB50.H130.WE40	
TCB50.H160.WE40	
TCB50.H200.WE40	
TCB50.H130.WE50	



CORPO MANDRINO BILANCIATO G6,3/ 10000 g/min
BASE BODY BALANCED G6,3/ 10000 rpm

MANDRINI PER FRESE WELDON A CENTRATURA RADIALE REGOLABILE RADIAL ADJUSTABLE END MILL HOLDERS

TCB40.H100.WE6RG	
TCB40.H100.WE8RG	
TCB40.H100.WE10RG	
TCB40.H110.WE12RG	
TCB40.H110.WE14RG	
TCB40.H130.WE16RG	
TCB40.H130.WE18RG	
TCB40.H135.WE20RG	
TCB50.H110.WE12RG	
TCB50.H110.WE14RG	
TCB50.H130.WE16RG	
TCB50.H130.WE18RG	
TCB50.H135.WE20RG	



PERMETTE DI ALLINEARE L'UTENSILE E IL PEZZO IN
LAVORAZIONE CON LA TOLLERANZA DI 0,01mm

BY USING THE CHUCK RG, THE RUNOUT OF THE
CUTTING TOOL CAN BE ADJUSTED TO 0,01mm



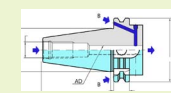
TC WE-C

TC WE
2/3

TC WE
1/3

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



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

TCB40.H50.WE6C	
TCB40.H50.WE8C	
TCB40.H50.WE10C	
TCB40.H50.WE12C	
TCB40.H50.WE14C	
TCB40.H63.WE16C	
TCB40.H63.WE18C	
TCB40.H63.WE20C	
TCB40.H100.WE25C	
TCB40.H100.WE32C	
TCB40.H120.WE40C	

TCB50.H63.WE6C	
TCB50.H63.WE8C	
TCB50.H63.WE10C	
TCB50.H63.WE12C	
TCB50.H63.WE14C	
TCB50.H63.WE16C	
TCB50.H63.WE18C	
TCB50.H63.WE20C	
TCB50.H80.WE25C	
TCB50.H100.WE32C	
TCB50.H100.WE40C	

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



MANDRINI WHISTLE-NOTCH WHISTLE-NOTCH END MILL HOLDERS

TCB40.H50.WHN6	
TCB40.H50.WHN8	
TCB40.H50.WHN10	
TCB40.H50.WHN12	
TCB40.H50.WHN14	
TCB40.H63.WHN16	
TCB40.H63.WHN18	
TCB40.H63.WHN20	
TCB40.H100.WHN25	
TCB40.H100.WHN32	

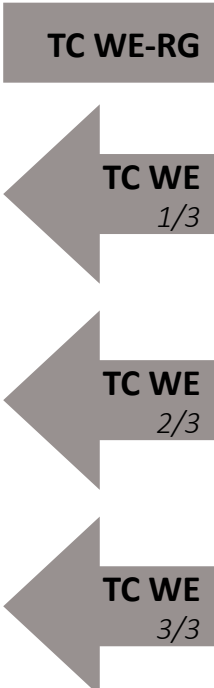
TCB50.H63.WHN6	
TCB50.H63.WHN8	
TCB50.H63.WHN10	
TCB50.H63.WHN12	
TCB50.H63.WHN14	
TCB50.H63.WHN16	
TCB50.H63.WHN18	
TCB50.H63.WHN20	
TCB50.H80.WHN25	
TCB50.H100.WHN32	
TCB50.H112.WHN40	

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



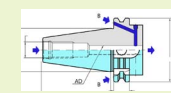
MANDRINI PORTA INSERZIONI REGISTRABILI DIN6327 AUTOMOTIVE SHANK ADAPTERS

TC50.H100.TR28	
TC50.H100.TR36	
TC50.H100.TR48	



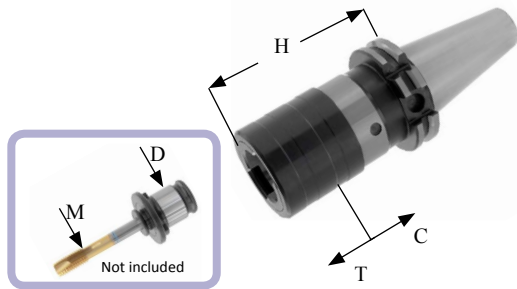
DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



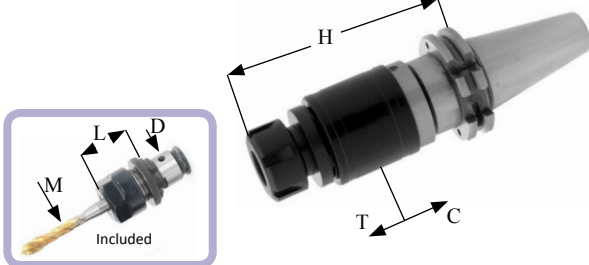
PORTAMASCHI A CAMBIO RAPIDO
CON COMPENSAZIONE ASSIALE
A TRAZIONE E COMPRESIONE
*QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION*

	M	D	H	T	C
TC30.MCR1TC	M3÷M12	19	60	9	9
TC40.MCR1TC	M3÷M12	19	60	9	9
TC50.MCR1TC	M3÷M12	19	60	9	9
TC40.MCR2TC	M6÷M20	31	98	15	15
TC50.MCR2TC	M6÷M20	31	84	15	15
TC40.MCR3TC	M14÷M33	48	146	24	24
TC50.MCR3TC	M14÷M33	48	139	24	24



PORTAMASCHI A CAMBIO RAPIDO
CON COMPENSAZIONE ASSIALE
A TRAZIONE E COMPRESIONE
*QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION - ERC COLLETS*

	M	D	H	T
TC40.ERC16TC	M3÷M12	90	9	9
TC40.ERC25TC	M3÷M20	136	15	15
TC40.ERC32TC	M3÷M27	148	15	15
TC50.ERC32TC	M3÷M27	134	24	24



INSERZIONI PORTAMASCHI SENZA FRIZIONE
TAPPING ADAPTERS WITHOUT CLUTCH

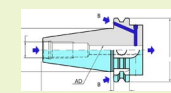


INSERZIONI PORTAMASCHI
CON FRIZIONE REGISTRABILE
TAPPING ADAPTERS WITH SAFETY CLUTCH



DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



PORTAFRESE COMBINATI - solo AD COMBI SHELL END MILL HOLDERS - AD only

TC30.H50.D13C	
TC30.H50.D16C	
TC30.H50.D22C	
TC30.H55.D27C	
TC30.H60.D32C	

TC40.H100.D13C	
TC40.H55.D16C	
TC40.H100.D16C	
TC40.H130.D16C	
TC40.H160.D16C	
TC40.H200.D16C	
TC40.H55.D22C	
TC40.H100.D22C	
TC40.H130.D22C	
TC40.H160.D22C	
TC40.H200.D22C	
TC40.H55.D27C	
TC40.H100.D27C	
TC40.H130.D27C	
TC40.H160.D27C	
TC40.H200.D27C	
TC40.H60.D32C	
TC40.H100.D32C	
TC40.H130.D32C	
TC40.H160.D32C	
TC40.H200.D32C	
TC40.H60.D40C	
TC40.H100.D40C	
TC40.H130.D40C	
TC40.H160.D40C	
TC40.H200.D40C	



PORTAFRESE COMBINATI - solo AD COMBI SHELL END MILL HOLDERS - AD only

TC50.H55.D16C	
TC50.H100.D16C	
TC50.H130.D16C	
TC50.H160.D16C	
TC50.H55.D22C	
TC50.H100.D22C	
TC50.H130.D22C	
TC50.H160.D22C	
TC50.H55.D27C	
TC50.H100.D27C	
TC50.H130.D27C	
TC50.H160.D27C	
TC50.H55.D32C	
TC50.H100.D32C	
TC50.H130.D32C	
TC50.H160.D32C	
TC50.H55.D40C	
TC50.H100.D40C	
TC50.H130.D40C	
TC50.H160.D40C	
TC50.H70.D50C	



PORTAFRESE FISSI SENZA CANALI DI LUBRIFICAZIONE SHELL END MILL HOLDERS WITHOUT COOLANT CHANNELS

TC30.H35.D16SH	
TC30.H35.D22SH	
TC30.H60.D27SH	
TC30.H60.D32SH	

TC40.H40.D13SH	
TC40.H90.D13SH	
TC40.H100.D16SH	
TC40.H130.D16SH	
TC40.H200.D16SH	
TC40.H100.D22SH	
TC40.H120.D22SH	
TC40.H60.D27SH	
TC40.H100.D27SH	
TC40.H120.D27SH	
TC40.H160.D27SH	
TC40.H200.D27SH	
TC40.H56.D32SH	
TC40.H100.D32SH	
TC40.H120.D32SH	
TC40.H160.D32SH	
TC40.H100.D40SH	



DISPONIBILI FINO ALL'ESAURIMENTO
DELLE SCORTE
AVAILABLE TILL THE END OF STOCK
RESERVES

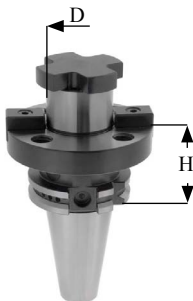
PORTAFRESE AD INSERTI FACE MILL HOLDERS

Solo AD / AD only	
TC40.H50.D40FM	

TC50.H70.D40FM	
TC50.H70.D60FM	

Forma AD+B / Form AD+B	
TCB40.H50.D40FM	
TCB40.H100.D40FM	

TCB50.H50.D40FM	
TCB50.H70.D60FM	



Montaconi
Assembly device



Tiranti
Pull Studs



Viti - Chiavi
Screws - Spanners



Anelli Combi
Clutch Rings

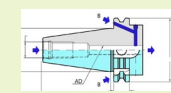


Tasselli Trascinamento
Drive Keys

TC D-S
2/2

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



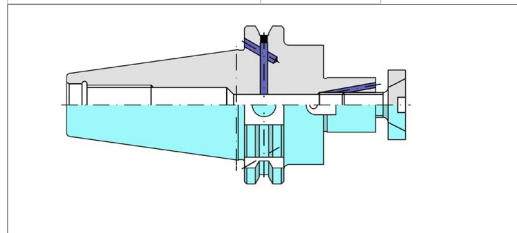
PORTAFRESE FISSI CON CANALI DI LUBRIFICAZIONE
SHELL END MILL HOLDERS
WITH COOLANT CHANNELS

TCB40.H35.D16SP	
TCB40.H50.D16S	
TCB40.H100.D16S	
TCB40.H130.D16S	
TCB40.H160.D16S	
TCB40.H200.D16S	
TCB40.H35.D22SP	
TCB40.H45.D22S	
TCB40.H100.D22S	
TCB40.H130.D22S	
TCB40.H160.D22S	
TCB40.H200.D22S	
TCB40.H35.D27SP	
TCB40.H50.D27S	
TCB40.H100.D27S	
TCB40.H130.D27S	
TCB40.H160.D27S	
TCB40.H200.D27S	
TCB40.H50.D32SP	
TCB40.H55.D32S	
TCB40.H100.D32S	
TCB40.H130.D32S	
TCB40.H160.D32S	
TCB40.H200.D32S	
TCB40.H50.D40SPFM	
TCB40.H60.D40S	
TCB40.H100.D40S	
TCB40.H130.D40S	
TCB40.H160.D40S	
TCB40.H200.D40S	

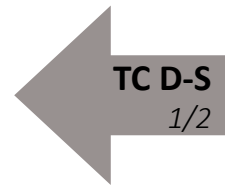


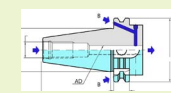
PORTAFRESE FISSI CON CANALI DI LUBRIFICAZIONE
SHELL END MILL HOLDERS
WITH COOLANT CHANNELS

TCB50.H35.D16SP	
TCB50.H45.D16S	
TCB50.H100.D16S	
TCB50.H130.D16S	
TCB50.H160.D16S	
TCB50.H200.D16S	
TCB50.H250.D16S	
TCB50.H300.D16S	
TCB50.H350.D16S	
TCB50.H35.D22SP	
TCB50.H45.D22S	
TCB50.H100.D22S	
TCB50.H130.D22S	
TCB50.H160.D22S	
TCB50.H200.D22S	
TCB50.H250.D22S	
TCB50.H300.D22S	
TCB50.H350.D22S	
TCB50.H35.D27SP	
TCB50.H45.D27S	
TCB50.H100.D27S	
TCB50.H130.D27S	
TCB50.H160.D27S	
TCB50.H200.D27S	
TCB50.H250.D27S	
TCB50.H300.D27S	
TCB50.H350.D27S	
TCB50.H35.D32SP	
TCB50.H50.D32S	
TCB50.H100.D32S	
TCB50.H130.D32S	
TCB50.H160.D32S	
TCB50.H200.D32S	
TCB50.H250.D32S	
TCB50.H300.D32S	
TCB50.H350.D32S	
TCB50.H35.D40SP	
TCB50.H50.D40SPFM	
TCB50.H100.D40S	
TCB50.H130.D40S	
TCB50.H160.D40S	
TCB50.H200.D40S	



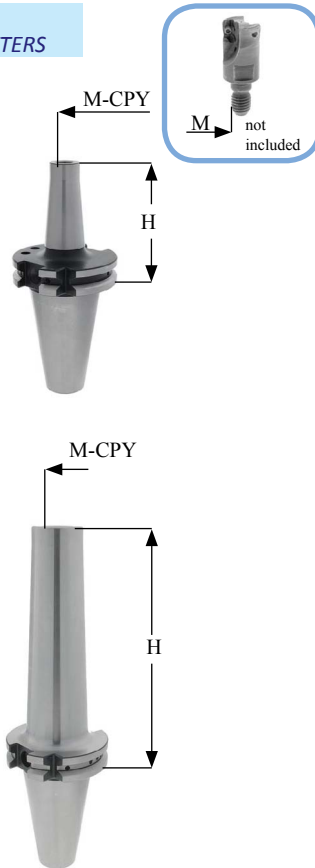
WITH ADDITIONAL 4 SCREW HOLES
IN COMPLIANCE WITH DIN2079





MANDRINI PER FRESE FILETTATE TOOLHOLDERS FOR SCREWED MILLING CUTTERS

TCB40.H55.M8CPY	
TCB40.H75.M8CPY	
TCB40.H95.M8CPY	
TCB40.H115.M8CPY	
TCB40.H55.M10CPY	
TCB40.H75.M10CPY	
TCB40.H95.M10CPY	
TCB40.H115.M10CPY	
TCB40.H145.M10CPY	
TCB40.H55.M12CPY	
TCB40.H75.M12CPY	
TCB40.H95.M12CPY	
TCB40.H115.M12CPY	
TCB40.H145.M12CPY	
TCB40.H175.M12CPY	
TCB40.H55.M16CPY	
TCB40.H75.M16CPY	
TCB40.H95.M16CPY	
TCB40.H115.M16CPY	
TCB40.H145.M16CPY	
TCB40.H175.M16CPY	
TCB50.H85.M10CPY	
TCB50.H135.M10CPY	
TCB50.H185.M10CPY	
TCB50.H85.M12CPY	
TCB50.H135.M12CPY	
TCB50.H185.M12CPY	
TCB50.H85.M16CPY	
TCB50.H135.M16CPY	
TCB50.H185.M16CPY	



PROLUNGHE PER FRESE FILETTATE EXTENSIONS FOR SCREWED MILLING CUTTERS

D20.L75.M8CPY	
D20.L100.M8CPY	
D20.L125.M8CPY	
D20.L150.M8CPY	
D20.L75.M10CPY	
D20.L100.M10CPY	
D20.L125.M10CPY	
D20.L150.M10CPY	
D25.L81.M12CPY	
D25.L131.M12CPY	
D25.L181.M12CPY	
D32.L85.M16CPY	
D32.L135.M16CPY	
D32.L185.M16CPY	

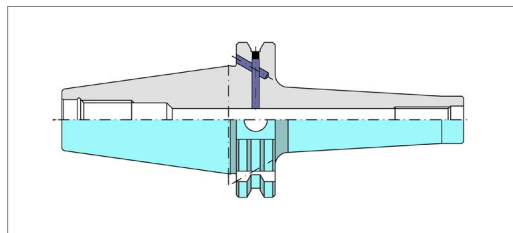


PORTAPINZE CON ATTACCO FILETTATO COLLET CHUCKS WITH SCREWED SHANK

M12.H50.ERC16M	
M16.H50.ERC16M	



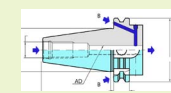
CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min BASE BODY BALANCED G2,5/ 20000 rpm



COPPIA DI SERRAGGIO CONSIGLIATA PER LE FRESE FILETTATE RECOMMENDED TIGHTENING TORQUE FOR SCREWED MILLS

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





MANDRINI PER IL CALETTAMENTO TERMICO SHRINK FIT HOLDERS

TCB40.H80.TM3	
TCB40.H80.TM4	
TCB40.H80.TM5	
TCB40.H80.TM6	
TCB40.H120.TM6	
TCB40.H160.TM6	
TCB40.H80.TM8	
TCB40.H120.TM8	
TCB40.H160.TM8	
TCB40.H80.TM10	
TCB40.H120.TM10	
TCB40.H160.TM10	
TCB40.H80.TM12	
TCB40.H120.TM12	
TCB40.H160.TM12	
TCB40.H80.TM14	
TCB40.H80.TM16	
TCB40.H120.TM16	
TCB40.H160.TM16	
TCB40.H80.TM18	
TCB40.H80.TM20	
TCB40.H120.TM20	
TCB40.H160.TM20	
TCB40.H100.TM25	

CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE BODY BALANCED G2,5/ 20000 rpm



PROLUNGHE PER CALETTAMENTO TERMICO SHRINK FIT EXTENSIONS

D20.L150.TM3	
D20.L150.TM4	
D20.L150.TM5	
D20.L150.TM6	
D20.L150.TM8	
D20.L150.TM10	
D20.L150.TM12	

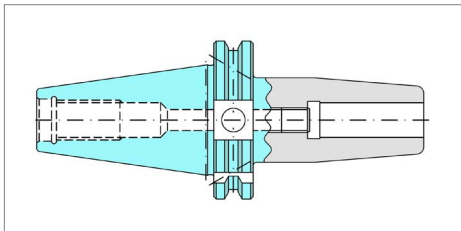


CARATTERISTICHE DEI MANDRINI

- COSTRUITI IN ACCIAIO
 - CON RESISTENZA DI 1600/1800 N/mm²
 - DUREZZA RC52 + 2
 - TEMPERATURA DI RISCALDO MAX 500°C
 - TOLLERANZA DEL GAMBO DELL'UTENSILE DA CALETTARE "h6"
 - REGOLAZIONE ASSIALE UTENSILE 10mm
- FEATURES OF SHRINK HOLDERS
- PRODUCED IN STEEL WITH TENSILE STRENGTH 1600/1800 N/mm²
 - HARDNESS RE52 + 2
 - SHRINKING TEMPERATURE MAX 500°C
 - TOOL SHANK TOLERANCE "h6"
 - LENGTH ADJUSTMENT OF TOOL 10mm

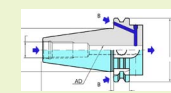


UNITA' DI CALETTAMENTO AD INDUZIONE NEW SHRINK FIT UNIT



DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



RIDUZIONI A CONO MORSE PER PUNTE MORSE TAPER ADAPTERS FOR DRILLS

TC30.H50.CM1P	
TC30.H60.CM2P	
TC30.H80.CM3P	
TC40.H50.CM1P	
TC40.H50.CM2P	
TC40.H70.CM3P	
TC40.H95.CM4P	
TC50.H45.CM1P	
TC50.H120.CM1P	
TC50.H60.CM2P	
TC50.H135.CM2P	
TC50.H65.CM3P	
TC50.H155.CM3P	
TC50.H95.CM4P	
TC50.H180.CM4P	
TC50.H105.CM5P	
TC50.H215.CM5P	
TCB40.H50.CM2P	
TCB40.H70.CM3P	
TCB40.H95.CM4P	
TCB50.H60.CM2P	
TCB50.H65.CM3P	
TCB50.H95.CM4P	
TCB50.H105.CM5P	



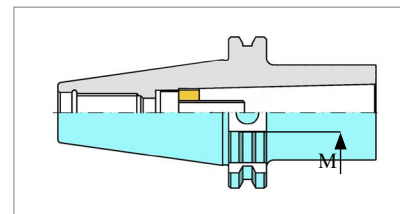
RIDUZIONI A CONO MORSE PER FRESE MORSE TAPER ADAPTERS FOR MILLS

	M
TC40.H50.CM2FV	10
TC40.H70.CM3FV	12
TC40.H95.CM4FV	16
TC50.H60.CM2FV	10
TC50.H100.CM2FV	10
TC50.H170.CM2FV	10
TC50.H65.CM3FV	12
TC50.H100.CM3FV	12
TC50.H120.CM3FV	12
TC50.H95.CM4FV	16
TC50.H170.CM4FV	16
TC50.H219.CM4FV	16
TC50.H120.CM5FV	20
TCB40.H70.CM3FV	12
TCB40.H95.CM4FV	16
TCB50.H65.CM3FV	12
TCB50.H95.CM4FV	16
TCB50.H100.CM5FV	20



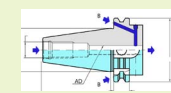
MANDRINI DI RIDUZIONE TC-SK TC-SK REDUCTION SLEEVES

	M
TC40.H50.SK30	12
TC40.H100.SK40	16
TC50.H70.SK40	16
TC50.H120.SK50	24



DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE

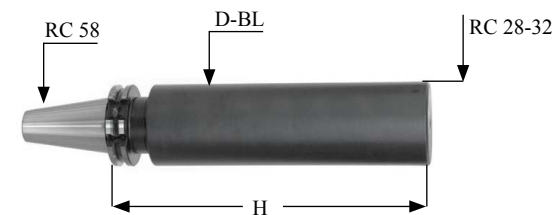


MANDRINI CON STELO LAVORABILE MACHINABLE BLANK ARBORS

TC40.H250.D40BL	
TC40.H250.D63BL	

TC50.H315.D63BL	
TC50.H315.D97BL	

COSRUITI IN ACCIAIO 20MnCr5.
A RICHIESTA IN ACCIAIO 25CrMo4.
MANUFACTURED WITH 20MnCr5 STEEL.
ON REQUEST WITH 25CrMo4 STEEL.



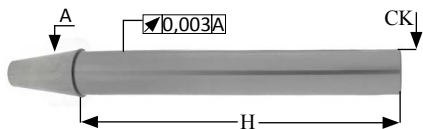
MANDRINI DI COLLAUDO TEST ARBOR ISO-R230 RECCOMANDATION

TC30.H200.CK32	
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TC50.H300.CK50	
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TC40.H300.CK40	
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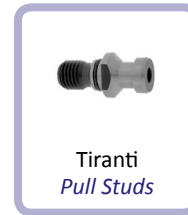
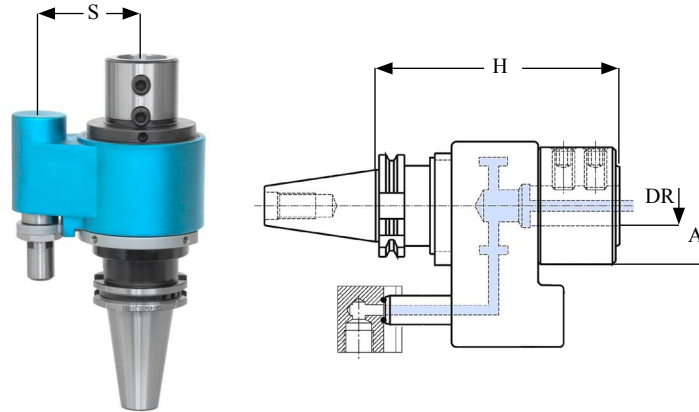
GIRI MAX 3.500
PRESSIONE D'ESERCIZIO Max 20 bar / Min 2 bar
MAX rpm 3.500
COOLANT PRESSURE Max 20 bar / Min 2 bar



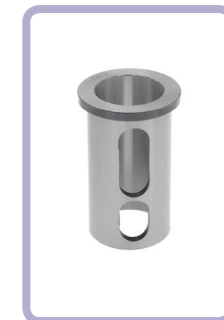
DISTRIBUTORE ROTANTE DI REFRIGERANTE ROTARY COOLANT FEEDER

	S	A	H
TC40-DR32	65	47	165
TC50-DR40	80	56	170

GIRI MAX: 3.500
PRESSIONE D'ESERCIZIO: Max 20bar Min 2bar
MAX rpm: 3.500
COOLANT PRESSURE: Max 20bar Min 2bar

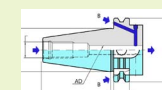


BUSOLE DI RIDUZIONE TOOLHOLDER ADAPTERS



DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



PORTAUTENSILI MODULARI SISTEMA VARILOCK MODULAR TOOL HOLDERS VARILOCK SYSTEM

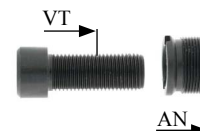
TCB40.H27.D50MD	
TCB40.H50.D50MD	
TCB40.H27.D63MD	
TCB40.H50.D63MD	

TCB50.H27.D50MD	
TCB50.H50.D50MD	
TCB50.H27.D63MD	
TCB50.H50.D63MD	
TCB50.H27.D80MD	
TCB50.H50.D80MD	



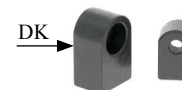
RICAMBI VITI E ANELLI DI ASSEMBLAGGIO SPARE PART - SETTING SCREW FOR MODULAR TOOL HOLDERS

ANMD 50	
ANMD 63-80	
VTMD 50	
VTMD 63-80	



TASSELLI DI TRASCINAMENTO DRIVING KEY

DKMD50	
DKMD 63-80	



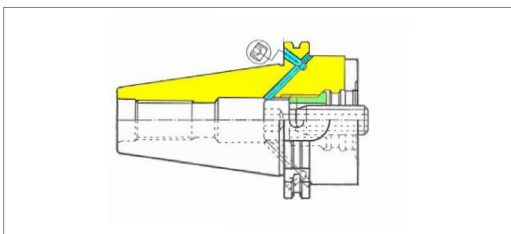
ADATTATORI MODULARI DI ESTENSIONE MODULAR EXTENSION ADAPTERS

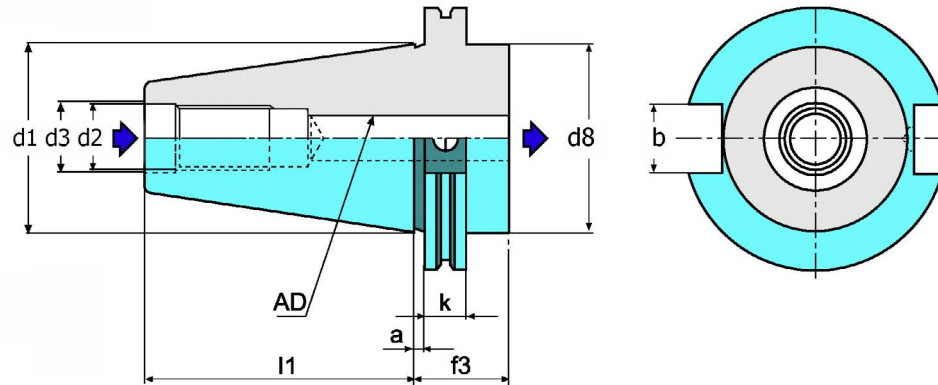
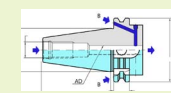


ADATTATORI MODULARI PORTAPINZE MODULAR COLLET CHUCK ADAPTERS




ADATTATORI MODULARI PER FRESE WELDON MODULAR END MILL ADAPTERS






DIMENSIONI ATTACCO CAT40M
CAT40M SHANK DETAILS


TAPER	d1	d2	d3	d8	l1	a	k	f3	b
CAT 40 M	44,45	M16	17	44,45	68,4	3,2	15,9	35	16,1




Montaconi
Assembly device




Pinze ERC
ERC Collets




Ghiere Mini
Mini Nuts



Ghiere Esagonali
Exagonal Nuts



Ghiere Standard
Standard Nuts



Tiranti
Pull Studs

PORTAPINZE MINI
MINI COLLET CHUCKS

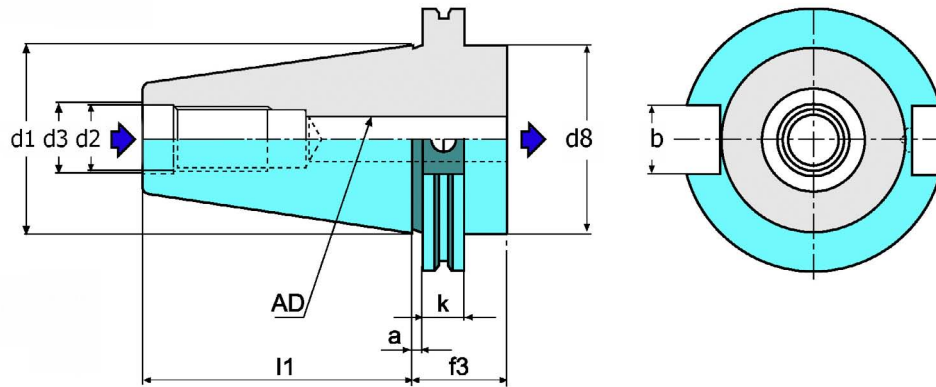
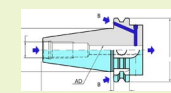
CAT40M.H100.ERC25M	
CAT40M.H150.ERC25M	



PORTAPINZE
COLLET CHUCKS

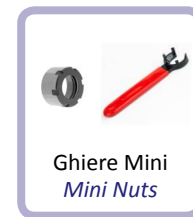
	A
CAT40M.H70.ERC16	28
CAT40M.H100.ERC16	28
CAT40M.H70.ERC32	50
CAT40M.H100.ERC32	50
CAT40M.H80.ERC40	63
CAT40M.H100.ERC40	63





ATTACCHI CAT-ANSI B5.5
CAT-ANSI B5.5 SHANK DETAILS

TAPER	d1	d2	d3	d8	l1	a	k	f3	b
CAT 40 ANSI	1.750	5/8-11	.641	1.750	2.687	.125	.625	1.375	.645
CAT 50 ANSI	2.750	1"-8	1.031	2.750	4.000	.125	.625	1.375	1.020



PORTAPINZE MINI
MINI COLLET CHUCKS

CAT40ANSI-H4.92-ERC16M



PORTAPINZE
COLLET CHUCKS

CAT40ANSI-H2.76-ERC16	
CAT40ANSI-H4.00-ERC16	
CAT40ANSI-H2.76-ERC32	
CAT40ANSI-H4.00-ERC32	
CAT40ANSI-H3.15-ERC40	
CAT40ANSI-H4.00-ERC40	
CAT50ANSI-H4.00-ERC32	
CAT50ANSI-H4.00-ERC40	



ALTEZZA IN POLLICI
PROJECTION H IN INCH

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE



DIN69872A - FORATI

DIN69872A - WITH COOLANT BORE

	G	A	H±0,05	D	L	B
PS.DIN30A	M12	13	19	13	44	3
PS.DIN40A	M16	19	20	17	54	7
PS.DIN50A	M24	28	25	25	74	11,5

DIN69872A - SENZA FORO

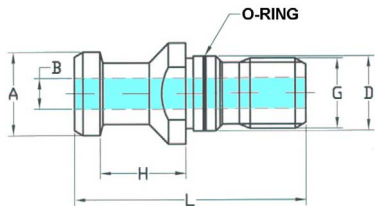
DIN69872A - WITHOUT COOLANT BORE (SOLID)

	G	A	H±0,05	D	L
PS.DIN30SF	M12	13	19	13	44
PS.DIN40SF	M16	19	20	17	54
PS.DIN50SF	M24	28	25	25	74

DIN69872A - FORATI

DIN69872A - WITH COOLANT BORE

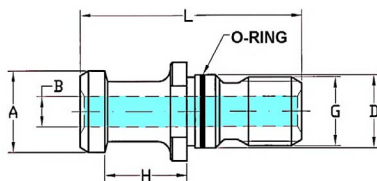
	G	A	H±0,05	D	L	B
PS.DIN40.2OR	M16	19	20	17	54	7
PS.DIN40.2OR-BT	M16	19	23	17	54	7
PS.DIN50.2OR	M24	28	25	25	74	11,5



ISO7388-2A - CON FORO ID

ISO7388-2A - WITH ID HOLE

	G	A	H±0,05	D	L	ID HOLE
PS.TC50BF	M24	28	25	25	74	10x4,7
PS.TC50BF1	M24	28	25	25	74	12x4,7



COSTRUITI CON ACCIAI DA CEMENTAZIONE LEGATI AL Ni.Cr.Mo.
CEMENTATI, TEMPERATI,
RINVENUTI CON DUREZZA RC 58 ± 2
FILETTATURA PROTETTA DALLA CEMENTAZIONE,
DUREZZA RC40 ± 2.
RETTIFICATI SU TUTTO IL PROFILO DI AGGANCIO
CON MACCHINE A CONTROLLO NUMERICO

MANUFACTURED WITH NICKEL CHROME
MOLYBDENUM STEEL.
CARBURIZED, HARDENED AND TEMPERED RC 58 ± 2
THE THREAD IS SOFT RC 40 ± 2 FOR NOT BREAKING.
THE CLAMPING PROFILE IS OVERALL GROUND WITH
CNC GRINDERS

ISO7388-2A - FORATI

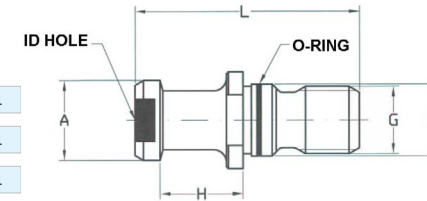
ISO7388-2A - WITH COOLANT BORE

	G	A	H±0,05	D	L	B
PS.TC30A	M12	12	19	13	44	4
PS.TC40A	M16	19	20	17	54	7
PS.TC50A	M24	28	25	25	74	11,5

ISO7388-2A - SENZA FORO

ISO7388-2A - WITHOUT COOLANT BORE (SOLID)

	G	A	H±0,05	D	L
PS.TC30A.SF	M12	12	19	13	44
PS.TC40A.SF	M16	19	20	17	54
PS.TC50A.SF	M24	28	25	25	74



ISO7388-2B - FORATI

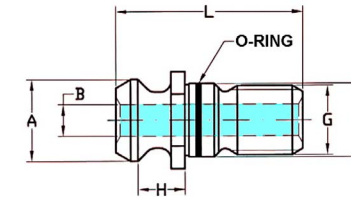
ISO7388-2B - WITH COOLANT BORE

	G	A	H±0,05	D	L	B
PS.CAT30A	M12	13,85	8,15	13	3,4	4
PS.CAT40A	M16	18,95	11,15	17	44,5	7,35
PS.CAT50A	M24	29,1	17,95	25	65,5	11,55

ISO7388-2B - SENZA FORO

ISO7388-2B - WITHOUT COOLANT BORE (SOLID)

	G	A	H±0,05	D	L
PS.CAT30A.SF	M12	13,85	8,15	13	3,4
PS.CAT40A.SF	M16	18,95	11,15	17	44,5
PS.CAT50A.SF	M24	29,1	17,95	25	65,5



PULL STUDS
2/2

DIN 69871 TC

TABELLA DIMENSIONI TC TC DIMENSIONS TABLE

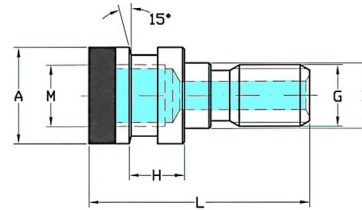


OTT TYPE / DIN69871 - FORATI OTT TYPE / DIN69871 - WITH COOLANT BORE

	G	A	H±0,05	D	L	M
PS.OTT40TC	M16	25	14,52	17	53	M16
PS.OTT50TC	M24	39,6	14	25	65	M24

OTT TYPE / DIN69871 - SENZA FORO OTT TYPE / DIN69871 - WITHOUT COOLANT BORE

	G	A	H±0,05	D	L
PS.OTT40TC.SF	M16	25	14,52	17	53
PS.OTT50TC.SF	M24	39,6	14	25	65

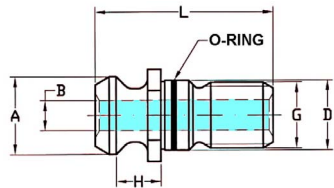


PER MACCHINE MAZAK - FORATI FOR MAZAK MACHINES - WITH COOLANT BORE

	TAPER	G	A	H±0,05	D	L	B	MAZAK CODE
PS.CAT40.MZ1	CAT-M	M16	18,8	11,17	17	41,25	7	349319 00 660
PS.CAT40.MZ2	BT	M16	18,8	14,02	17	44,1	7	349319 00 680
PS.CAT50.MZ3	BT	M24	28,95	17,58	25	65,2	10	448319 01 160
PS.CAT50.MZ4	CAT-M	M24	28,95	17,58	25	65,4	10	448319 01 180

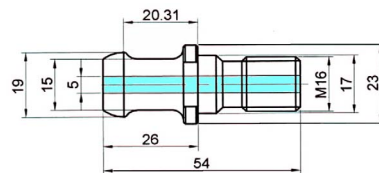
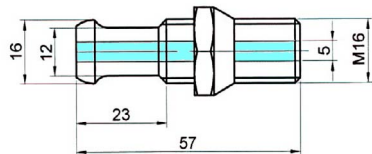
PER MACCHINE MAZAK - SENZA FORO FOR MAZAK MACHINES - WITHOUT COOLANT BORE

	TAPER	G	A	H±0,05	D	L	MAZAK CODE
PS.CAT40.MZ1SF	CAT-M	M16	18,8	11,17	17	41,25	349319 00 660
PS.CAT40.MZ2SF	BT	M16	18,8	14,02	17	44,1	349319 00 680



CB TIPO FERRARI CB FERRARI TYPE

PS.050185.C.B.F.-M16	
PS.051185.C.B.F.-M16	



CHIAVI DINAMOMETRICA PER TIRANTI TORQUE WRENCHES FOR PULL STUDS MOUNTING

TW803-210	
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CHIAVE A CRICCHETTO QUICK RATCHET

CRC12RV	
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BUSSELE INTERCAMBIABILI INTERCHANGEABLE SOCKET

SKT40.DIN	
SKT50.DIN	
SKT40.CAT	
SKT50.CAT	



PULL STUDS
1/2

WD



TIRANTI
PULL STUDS BOLT



HSK63E

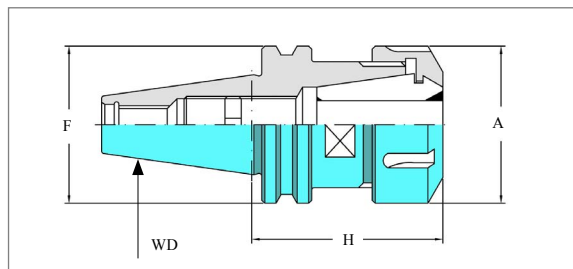


HSK63F

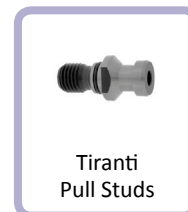
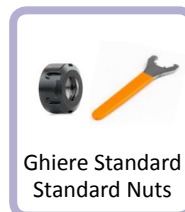
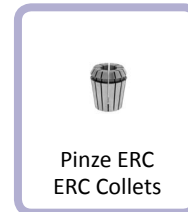


PORTAPINZE SENZA TACCHE DI TRASCINAMENTO WD

COLLET CHUCKS WITHOUT DRIVING SLOTS



UTILIZZATI SULLE MACCHINE
PER LA LAVORAZIONE DEL LEGNO E DELL'ALLUMINIO
SUITABLE FOR WOOD AND ALUWORKING MACHINES



FLANGIA 50mm (F) ROTAZIONE DESTRA *FLANGE 50mm (F) RIGHT HAND REVOLUTION*

	A
WD30.H50.ERC32RH	50
WD30.H57.ERC40RH	63
WD30.H68.ERC32RH	50



FLANGIA 50mm (F) ROTAZIONE SINISTRA *FLANGE 50mm (F) LEFT HAND REVOLUTION*

	A
WD30.H50.ERC32LH	50
WD30.H57.ERC40LH	63
WD30.H68.ERC32LH	50



CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm

FLANGIA 46mm (F) ROTAZIONE DESTRA *FLANGE 46mm (F) RIGHT HAND REVOLUTION*

	A
WD30C.H60.ERC32RH	50
WD30C.H65.ERC40RH	63



FLANGIA 46mm (F) ROTAZIONE SINISTRA *FLANGE 46mm (F) LEFT HAND REVOLUTION*

	A
WD30C.H60.ERC32LH	50
WD30C.H65.ERC40LH	63



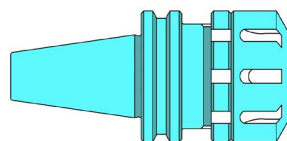
CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm

FLANGIA 58mm (F) ROTAZIONE DESTRA *FLANGE 58mm (F) RIGHT HAND REVOLUTION*

WD30U.H63.ERC32RH	
-------------------	--

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm



PORTAPINZE SENZA TACCHE DI TRASCINAMENTO

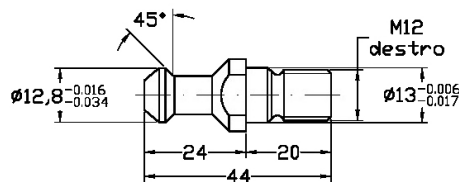
COLLET CHUCKS WITHOUT DRIVING SLOTS

WD



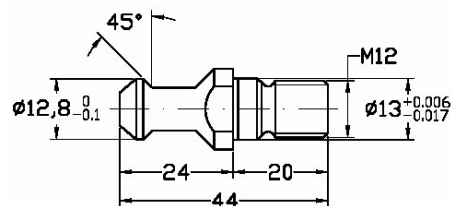
TIPO ALBERTI / M12
ALBERTI TYPE / M12

PS.WD30-ALB



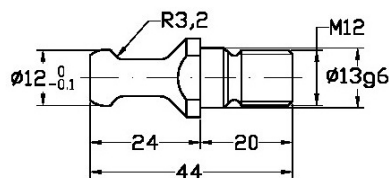
TIPO COLOMBO / M12
COLOMBO TYPE / M12

PS.WD30-COL



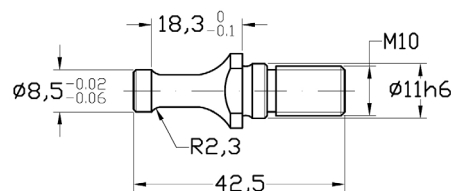
TIPO BIESSE / M12
BIESSE TYPE / M12

PS.WD30-BS2



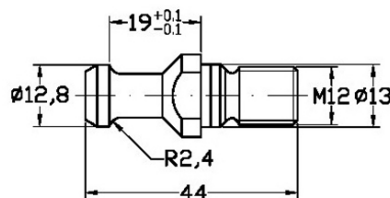
TIPO SCM / M12
SCM TYPE / M12

PS.WD30-SCM



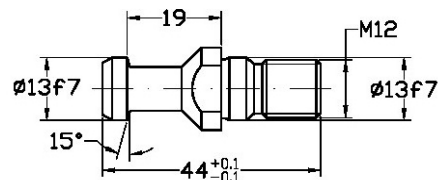
TIPO CMS / M12
CMS TYPE / M12

PS.WD30-CMS



DIN69872A - SENZA FORO / M12
DIN69872A - NO BORE / M12

PS.DIN30SF



PORTAPINZE SENZA TACCHE DI TRASCINAMENTO

COLLET CHUCKS WITHOUT DRIVING SLOTS

WD



HSK63E

PORTAPINZE - ROTAZIONE DESTRA
COLLET CHUCKS - RIGHT HAND REVOLUTION

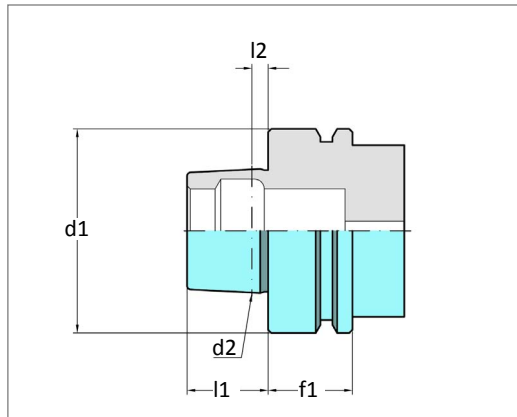
	A
HSK63E.H73.ERC32RH	50
HSK63E.H78.ERC40RH	63

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm

PORTAPINZE - ROTAZIONE SINISTRA
COLLET CHUCKS - LEFT HAND REVOLUTION

	A
HSK63E.H73.ERC32LH	50
HSK63E.H78.ERC40LH	63

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm



DIMENSIONI ATTACCHI HSK-E
HSK-E SHANK DETAILS

HSK d1	d2	f1	l1	l2
50E	38	26	25	5
63E	48	26	32	6,3



HSK63F

PORTAPINZE - ROTAZIONE DESTRA
COLLET CHUCKS - RIGHT HAND REVOLUTION

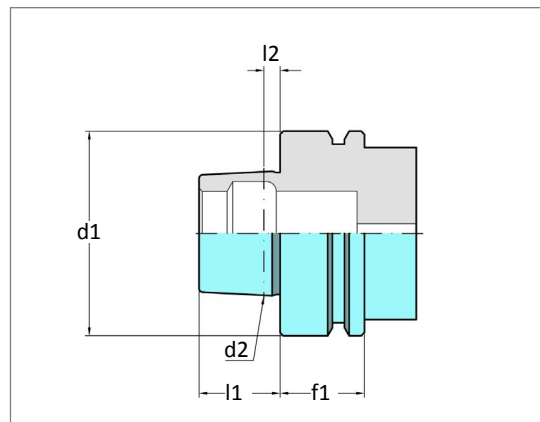
	A
HSK63F.H73.ERC32RH	50
HSK63F.H78.ERC40RH	63

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm

PORTAPINZE - ROTAZIONE SINISTRA
COLLET CHUCKS - LEFT HAND REVOLUTION

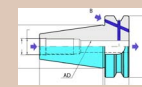
	A
HSK63F.H73.ERC32LH	50
HSK63F.H78.ERC40LH	63

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm



DIMENSIONI ATTACCHI HSK-F
HSK-F SHANK DETAILS

HSK d1	d2	f1	l1	l2
63F	38	26	25	5



PORTAPINZE
COLLET CHUCKS

MANDRINI IDRAULICI
HYDRAULIC EXPANSION CHUCKS

PORTAMASCHI
TAP HOLDERS

RIDUZIONI A CONO MORSE
PER PUNTE
MORSE TAPER ADAPTERS FOR DRILLS

PORTAUTENSILI MODULARI
SISTEMA VARILOCK
MODULAR TOOLHOLDERS
VARILOCK SYSTEM

PORTAPINZE
COLLET CHUCKS

MANDRINI AUTOSERRANTI
DRILL CHUCKS

PORTAFRESE COMBINATI
COMBI SHELL END MILL HOLDERS

RIDUZIONI A CONO MORSE
PER FRESE
MORSE TAPER ADAPTERS FOR MILLS

PORTAPINZE EXTRACORTI
SHORTY COLLET

ADATTATORI DA CONO TC A HSK
ADAPTERS FROM TC SHANK TO HSK

PORTAFRESA AD INSERTI
FACE MILL HOLDERS

MANDRINI DI RIDUZIONE BT-SK
BT-SK REDUCTION SLEEVES

TIRANTI
PULL STUDS BOLT

PORTAPINZE A CENTRATURA
RADIALE REGOLABILE
RADIAL ADJUSTABLE COLLET CHUCKS

MANDRINI PER FRESE WELDON
END MILL HOLDERS

PORTAFRESE FISSI
SHELL END MILL HOLDERS

MANDRINI A STELO LAVORABILE
MACHINABLE BLANK ARBORS

PORTAPINZE PER PINZE EOC
EOC COLLET CHUCKS

MANDRINI WHISTLE-NOTCH
WHISTLE-NOTCH END MILL HOLDERS

MANDRINI PER FRESE FILETTATE
TOOLHOLDERS
FOR SCREWED MILLING CUTTERS

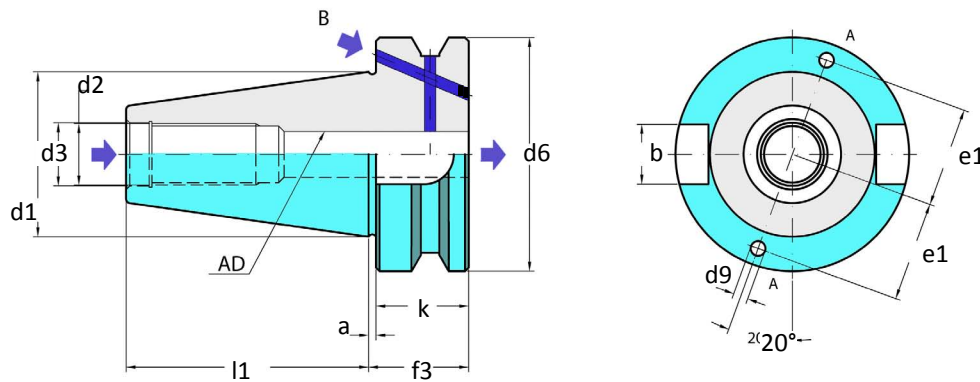
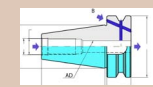
DISTRIBUTORE ROTANTE
DI REFFRIGERANTE
ROTARY COOLANT FEEDER

MANDRINI
A FORTE SERRAGGIO
POWER MILLING CHUCKS

MANDRINI PORTA INSERZIONI
REGISTRABILI DIN6327
AUTOMOTIVE SHANK ADAPTERS

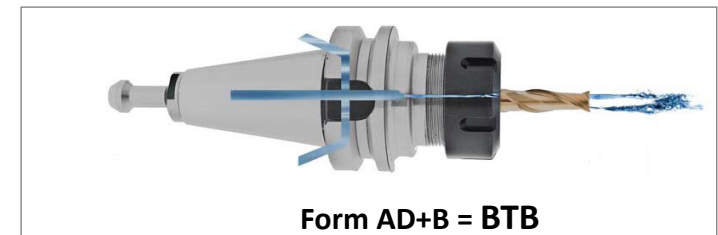
MANDRINI PER IL
CALETTAMENTO TERMICO
SHRINK FIT HOLDERS

MANDRINI DI COLLAUDO
TEST ARBORS



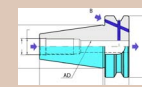
DIMENSIONI ATTACCHI MAS 403-BT
BT-MAS 403 SHANK DETAILS

TAPER	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		
BTB40	AD+B	44,45	M16	17	63	65,4	2	25	27	16,1	4	27
BTB50	AD+B	69,85	M24	25	100	101,8	3	35	38	25,7	6	42



I MANDRINI **BT** SONO COSTRUITI IN ACCIAIO 20MnCr5.
SONO CEMENTATI CON UNA PROFONDITA' MINIMA DI 0,6/0,8 mm.
LA DUREZZA SUPERFICIALE E' DI 58 +/-2 HRC.
SONO BRUNITI E RETTIFICATI CON PRECISIONE AT3 PER IL CONO D'ATTACCO.
LA RUGOSITA' MAX E' 0,001mm.

*BT TOOLHOLDERS ARE MANUFACTURED WITH 20MnCr5 CASE HARDENED STEEL.
THE MINIMUM DEPTH OF CASE IS 0,6/0,8mm.
SURFACE HARDNESS: 58 +/-2 Rc.
THE ACCURACY OF THE SHANK TAPER IS AT3.
THE SURFACE ROUGHNESS IS MAX 0,001mm.*



PORTAPINZE MINI MINI COLLET CHUCKS

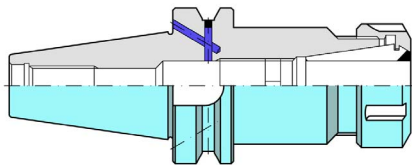
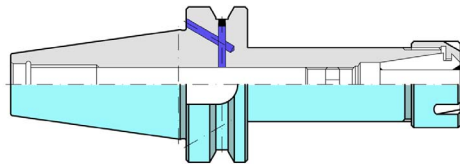
	A
BT30.H80.ERC11M	16
BT30.H120.ERC16M	22

BTB40.H100.ERC11M	16
BTB40.H125.ERC11M	16
BTB40.H150.ERC11M	16
BTB40.H100.ERC16M	22
BTB40.H125.ERC16M	22
BTB40.H150.ERC16M	22
BTB40.H100.ERC20M	28
BTB40.H135.ERC20M	28
BTB40.H150.ERC20M	28
BTB40.H100.ERC25M	35
BTB40.H150.ERC25M	35
BTB40.H200.ERC25M	35



BTB50.H135.ERC16M	22
BTB50.H160.ERC16M	22
BTB50.H200.ERC16M	22
BTB50.H135.ERC20M	28

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



PORTAPINZE COLLET CHUCKS

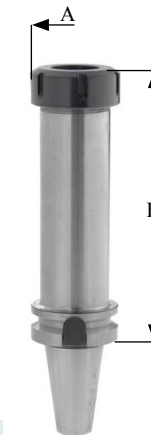
	A
BT30.H55.ERC16	28
BT30.H70.ERC16	28
BT30.H100.ERC16	28
BT30.H70.ERC20	34
BT30.H60.ERC25	42
BT30.H90.ERC25	42
BT30.H60.ERC32	50
BT30.H70.ERC32	50
BT30.H100.ERC32	50
BT30.H80.ERC40	63



CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm

PORTAPINZE COLLET CHUCKS

	A
BTB40.H70.ERC16	28
BTB40.H100.ERC16	28
BTB40.H120.ERC16	28
BTB40.H150.ERC16	28
BTB40.H200.ERC16	28
BTB40.H70.ERC20	34
BTB40.H100.ERC20	34
BTB40.H160.ERC20	34
BTB40.H70.ERC25	42
BTB40.H100.ERC25	42
BTB40.H130.ERC25	42
BTB40.H160.ERC25	42
BTB40.H200.ERC25	42
BTB40.H70.ERC32	50
BTB40.H100.ERC32	50
BTB40.H130.ERC32	50
BTB40.H150.ERC32	50
BTB40.H200.ERC32	50
BTB40.H70.ERC40	63
BTB40.H100.ERC40	63
BTB40.H130.ERC40	63
BTB40.H150.ERC40	63
BTB40.H200.ERC40	63
BTB40.H85.ERC50	78



CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm

I PORTAUTENSILI TC POSSONO ESSERE BILANCIATI A RICHIESTA IN GRADO G2,5/30.000 g/min. PER LE MASSIME VELOCITA' DI ROTAZIONE CONSIGLIAMO LA BILANCIATURA DEL MANDRINO CON L'UTENSILE MONTATO.

FINE BALANCING OF TC TOOLS UP TO 30.000 rpm IS POSSIBLE ON REQUEST. FOR THE MAX rpm WE SUGGEST TO BALANCE THE TOOLHOLDER TOGETHER WITH THE CUTTING TOOL.



Montaconi
Assembly device



Pinze ERC
ERC Collets



Ghiere Mini
Mini Nuts



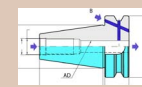
Ghiere Esagonali
Exagonal Nuts



Ghiere Standard
Standard Nuts



Tiranti
Pull Studs



PORTAPINZE
COLLET CHUCKS

	A
BTB50.H100.ERC16	28
BTB50.H160.ERC16	28
BTB50.H200.ERC16	28
BTB50.H100.ERC20	34
BTB50.H160.ERC20	34
BTB50.H80.ERC25	42
BTB50.H100.ERC25	42
BTB50.H130.ERC25	42
BTB50.H160.ERC25	42
BTB50.H200.ERC25	42
BTB50.H80.ERC32	50
BTB50.H100.ERC32	50
BTB50.H120.ERC32	50
BTB50.H160.ERC32	50
BTB50.H200.ERC32	50
BTB50.H250.ERC32	50
BTB50.H80.ERC40	63
BTB50.H100.ERC40	63
BTB50.H130.ERC40	63
BTB50.H160.ERC40	63
BTB50.H200.ERC40	63
BTB50.H300.ERC40	63
BTB50.H100.ERC50	78
BTB50.H130.ERC50	78
BTB50.H160.ERC50	78

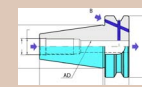


CORPO MANDRINO BILANCIATO G6,3/ 10000 g/min
BASE BODY BALANCED G6,3/ 10000 rpm

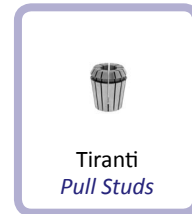
I PORTAUTENSILI TC POSSONO ESSERE BILANCIATI A RICHIESTA IN GRADO G2,5/30.000 g/min. PER LE MASSIME VELOCITA' DI ROTAZIONE CONSIGLIAMO LA BILANCIATURA DEL MANDRINO CON L'UTENSILE MONTATO.

FINE BALANCING OF TC TOOLS UP TO 30.000 rpm IS POSSIBLE ON REQUEST. FOR THE MAX rpm WE SUGGEST TO BALANCE THE TOOLHOLDER TOGETHER WITH THE CUTTING TOOL.





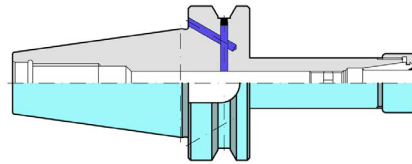
PORTAPINZE CON GHIERE SENZA TACCHE DI TRASCINAMENTO
COLLET CHUCKS WITH NOTCH FREE NUTS



PORTAPINZE MINI
MINI COLLET CHUCKS

	A
BTB40.H100.ERC11MNF	16
BTB40.H100.ERC16MNF	24
BTB40.H125.ERC16MNF	24
BTB40.H100.ERC20MNF	30
BTB40.H100.ERC25MNF	37

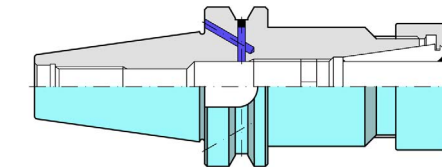
CORPO MANDRINO BILANCIATO G2,5/ 25000 g/min
BASE BODY BALANCED G2,5/ 25000 rpm



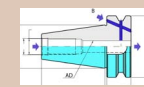
PORTAPINZE
COLLET CHUCKS

	A
BTB40.H100.ERC16NF	32
BTB40.H120.ERC16NF	32
BTB40.H100.ERC20NF	35
BTB40.H100.ERC25NF	42
BTB40.H130.ERC25NF	42
BTB40.H100.ERC32NF	50
BTB40.H130.ERC32NF	50

CORPO MANDRINO BILANCIATO G2,5/ 25000 g/min
BASE BODY BALANCED G2,5/ 25000 rpm



MAS403 JIS B6339 BT



PORTAPINZE A CENTRATURA REGOLABILE RADIAL ADJUSTABLE COLLET CHUCKS

	A
BTB40.H94.ERC25RG	42
BTB40.H95.ERC32RG	50
BTB40.H131.ERC40RG	63
BTB50.H100.ERC32RG	50



PERMETTE DI ALLINEARE L'UTENSILE E IL PEZZO IN LAVORAZIONE CON LA TOLLERANZA DI 0,01mm
BY USING THE CHUCK RG, THE RUNOUT OF THE CUTTING TOOL CAN BE ADJUSTED TO 0,01mm

PORTAPINZE EXTRACORTI SHORTY COLLET CHUCKS

BT40.H29.ERC32A	
BTB40.H50.ERC32A	
BTB40.H55.ERC32AEX	
BTB50.H40.ERC32A	

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm

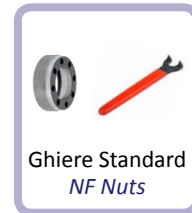
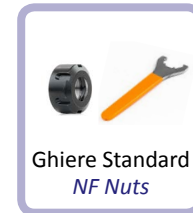


PORTAPINZE EOC EOC COLLET CHUCKS

	A
BTB40.H70.EOC16	43
BTB40.H70.EOC25	60
BTB40.H100.EOC25	60
BTB40.H90.EOC32	72
BTB50.H85.EOC25	60

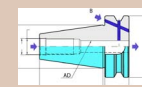


CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



MAS403 JIS B6339 BT

TABELLA DIMENSIONI BT BT DIMENSIONS TABLE



MANDRINI A FORTE SERRAGGIO - FORMA AD POWER MILLING CHUCKS - FORM AD

	A
BT40.H90.MC20	56
BT40.H105.MC32	70

BT50.H105.MC20	56
BT50.H110.MC32	70

CORPO MANDRINO BILANCIATO G6,3/ 8000 g/min BASE BODY BALANCED G6,3/ 8000 rpm



MANDRINI A FORTE SERRAGGIO - FORMA AD+B POWER MILLING CHUCKS - FORM AD+B

	A
BTB40.H80.MCP20	46
BTB40.H85.MCP32	62

BTB50.H100.MCP20	46
BTB50.H100.MCP32	62

CORPO MANDRINO BILANCIATO G6,3/ 8000 g/min BASE BODY BALANCED G6,3/ 8000 rpm



PINZE PER MANDRINI A FORTE SERRAGGIO COLLETS FOR POWER MILLINGS CHUCKS



Pinze 3SR20
3SR20 Collets



Pinze 3SR32
3SR32 Collets



Pinze 4SR20
4SR20 Collets



Pinze 4SR32
4SR32 Collets



CASSETTE CON MANDRINI A FORTE SERRAGGIO POWER MILLING CHUCKS KITS

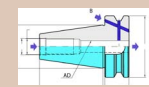
CON PINZE 3SR20 D.6-8-10-12-16

BX.BT40.MC20	
BX.BT40.MC32	

CON PINZE 3SR32 D.6-8-10-12-16-20-25

BX.BT50.MC20	
BX.BT50.MC32	

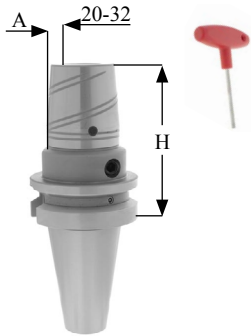




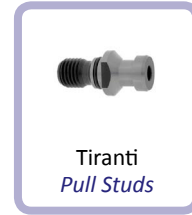
MANDRINI IDRAULICI
HYDRAULIC EXPANSION CHUCKS

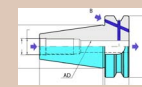
	A
BTB40.H72.D20HYE	50
BTB40.H90.D20HYE	42
BTB40.H90.D32HYE	56

CORPO MANDRINO BILANCIATO G6,3/ 20000 g/min
BASE BODY BALANCED G6,3/ 20000 rpm



PINZE A TENUTA DEL REFRIGERANTE
PER MANDRINI IDRAULICI
SEALED COLLETS FOR HYDRAULIC CHUCKS





ATTACCHI PER MANDRINI AUTOSERRANTI DRILL CHUCKS ARBORS

BT30.H30.B12	
BT30.H30.B16	
BT40.H40.B12	
BT40.H42.B16	
BT40.H42.B18	
BT50.H45.B16	
BT50.H45.B18	



MANDRINI AUTOSERRANTI CON CHIAVE ESAGONALE HEX KEY LOCK DRILL CHUCKS TITANIUM JAWS

BT40.H110.CP13	
BT40.H115.CP16	
BT50.H120.CP13	
BT50.H125.CP16	



MANDRINI AUTOSERRANTI CON CHIAVE DRILL CHUCKS WITH HOOK WRENCH

BT30.H80.DCK8	
BT30.H110.DCK13	
BT40.H85.DCK8	
BT40.H98.DCK13	
BT40.H105.DCK16	
BT50.H103.DCK13	
BT50.H112.DCK16	



MANDRINI AUTOSERRANTI DI RICAMBIO REPLACEMENT DRILL CHUCK HEADS

CP13.MT3	
CP16.MT3	



MANDRINI AUTOSERRANTI DI RICAMBIO REPLACEMENT DRILL CHUCK HEADS

DCK8.MT2S	
DCK13.MT3S	
DCK16.MT3S	



MANDRINI AUTOSERRANTI CON CHIAVE ESAGONALE E PASSAGGIO REFFRIGERANTE HEX KEY DRILL CHUCKS WITH COOLANT THROUGH

BT40.H98.HD13	
BT40.H103.HD16	
BT50.H109.HD13	
BT50.H114.HD16	



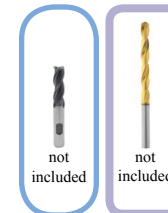
CHIAVI DI RICAMBIO WRENCHES

CH.DCK10	
CH.DCK12	
CH.DCK13	
CH.DCK16	
CH.CP13-16	
CH.HD13-16	



MANDRINI AUTOSERRANTI DI RICAMBIO ATTACCO FILETTATO M43,5x1,0 REPLACEMENT DRILL CHUCK HEADS THREAD MOUNTING M43,5x1,0

HD 13	
HD 16	



Montaconi
Assembly device



Tiranti
Pull Studs



Griffe per DCK
Assembly device



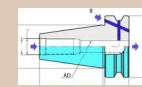
Viti per griffe
Assembly device



Mandrini autoserranti / con chiave
Drill chucks / Hook wrench

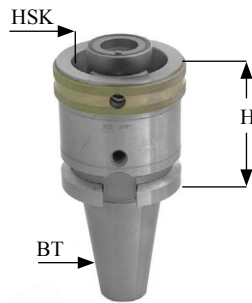
MAS403 JIS B6339 BT

TABELLA DIMENSIONI BT BT DIMENSIONS TABLE



ADATTATORI DA CONO BT A HSK ADAPTERS FROM BT SHANK TO HSK

BTB40.H90.HSK63AC	
BTB50.H100.HSK63AC	



MANDRINI PER FRESE WELDON END MILL HOLDERS

BT30.H50.WE6	
BT30.H100.WE6	
BT30.H50.WE8	
BT30.H100.WE8	
BT30.H50.WE10	
BT30.H100.WE10	
BT30.H50.WE12	
BT30.H100.WE12	
BT30.H50.WE14	
BT30.H100.WE14	
BT30.H63.WE16	
BT30.H100.WE16	
BT30.H63.WE18	
BT30.H100.WE18	
BT30.H63.WE20	
BT30.H100.WE20	



MANDRINI EXTRACORTI PER FRESE WELDON STUB END MILL HOLDERS

BT30.H32.WE6	
BT30.H32.WE8	
BT30.H32.WE10	
BT30.H32.WE12	
BT30.H35.WE16	
BT30.H35.WE20	

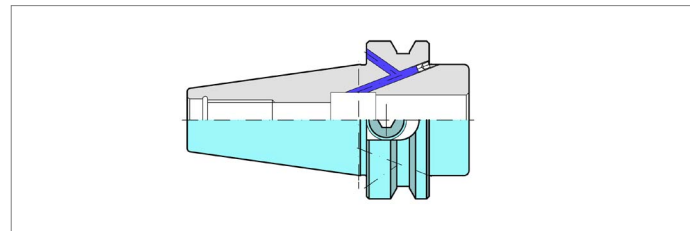


BTB40.H35.WE16	
BTB40.H35.WE20	
BTB40.H35.WE25	
BTB40.H60.WE25	
BTB40.H40.WE32	
BTB40.H70.WE32	



BTB50.H44.WE16	
BTB50.H44.WE20	
BTB50.H44.WE25	
BTB50.H44.WE32	
BTB50.H44.WE40	

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



BT WE-RG

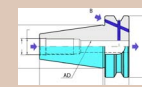
BT WE-C

BT WE
2/3

BT WE
3/3

MAS403 JIS B6339 BT

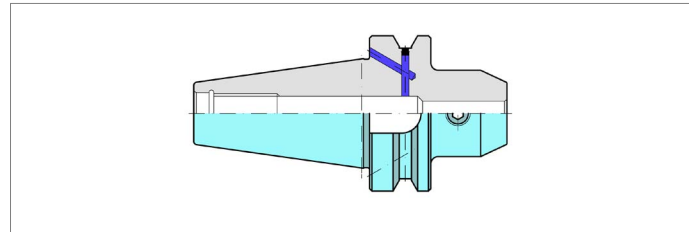
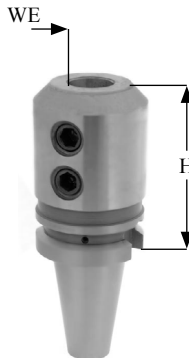
TABELLA DIMENSIONI BT BT DIMENSIONS TABLE



MANDRINI PER FRESE WELDON END MILL HOLDERS

BTB40.H50.WE6	
BTB40.H100.WE6	
BTB40.H130.WE6	
BTB40.H160.WE6	
BTB40.H50.WE8	
BTB40.H100.WE8	
BTB40.H130.WE8	
BTB40.H160.WE8	
BTB40.H63.WE10	
BTB40.H100.WE10	
BTB40.H130.WE10	
BTB40.H160.WE10	
BTB40.H63.WE12	
BTB40.H100.WE12	
BTB40.H130.WE12	
BTB40.H160.WE12	
BTB40.H63.WE14	
BTB40.H100.WE14	
BTB40.H130.WE14	
BTB40.H160.WE14	
BTB40.H63.WE16	
BTB40.H100.WE16	
BTB40.H130.WE16	
BTB40.H160.WE16	
BTB40.H63.WE18	
BTB40.H100.WE18	
BTB40.H130.WE18	
BTB40.H160.WE18	
BTB40.H63.WE20	
BTB40.H100.WE20	
BTB40.H130.WE20	
BTB40.H160.WE20	
BTB40.H90.WE25	
BTB40.H130.WE25	
BTB40.H160.WE25	
BTB40.H100.WE32	
BTB40.H130.WE32	
BTB40.H160.WE32	
BTB40.H120.WE40	

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm

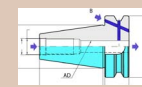


BT WE-RG

BT WE-C

BT WE
3/3

BT WE
1/3



MANDRINI PER FRESE WELDON END MILL HOLDERS

BTB50.H63.WE6	
BTB50.H100.WE6	
BTB50.H130.WE6	
BTB50.H160.WE6	
BTB50.H200.WE6	
BTB50.H63.WE8	
BTB50.H100.WE8	
BTB50.H130.WE8	
BTB50.H160.WE8	
BTB50.H200.WE8	
BTB50.H63.WE10	
BTB50.H100.WE10	
BTB50.H130.WE10	
BTB50.H160.WE10	
BTB50.H200.WE10	
BTB50.H80.WE12	
BTB50.H100.WE12	
BTB50.H130.WE12	
BTB50.H160.WE12	
BTB50.H200.WE12	
BTB50.H80.WE14	
BTB50.H100.WE14	
BTB50.H130.WE14	
BTB50.H160.WE14	
BTB50.H200.WE14	
BTB50.H80.WE16	
BTB50.H100.WE16	
BTB50.H130.WE16	
BTB50.H160.WE16	
BTB50.H200.WE16	
BTB50.H80.WE18	
BTB50.H100.WE18	
BTB50.H130.WE18	
BTB50.H160.WE18	
BTB50.H200.WE18	
BTB50.H80.WE20	
BTB50.H100.WE20	
BTB50.H130.WE20	
BTB50.H160.WE20	
BTB50.H200.WE20	

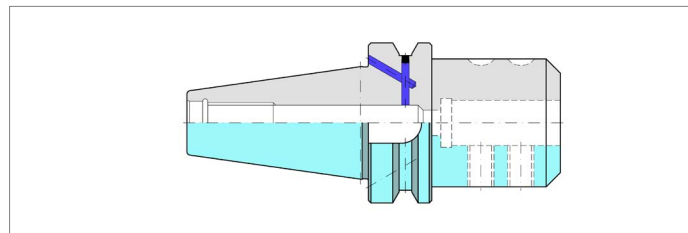


MANDRINI PER FRESE WELDON END MILL HOLDERS

BTB50.H100.WE25	
BTB50.H130.WE25	
BTB50.H160.WE25	
BTB50.H200.WE25	
BT50.H250.WE25	
BTB50.H105.WE32	
BTB50.H130.WE32	
BTB50.H160.WE32	
BTB50.H200.WE32	
BT50.H250.WE32	
BTB50.H120.WE40	
BTB50.H160.WE40	
BTB50.H200.WE40	
BTB50.H125.WE50	



CORPO MANDRINO BILANCIATO G6,3/ 10000 g/min
BASE BODY BALANCED G6,3/ 10000 rpm



MANDRINI PER FRESE WELDON A CENTRATURA RADIALE REGOLABILE RADIAL ADJUSTABLE END MILL HOLDERS

BTB40.H97.WE6RG	
BTB40.H97.WE8RG	
BTB40.H97.WE10RG	
BTB40.H107.WE12RG	
BTB40.H107.WE14RG	
BTB40.H128.WE16RG	
BTB40.H128.WE18RG	
BTB40.H133.WE20RG	
BTB50.H112.WE12RG	
BTB50.H112.WE14RG	
BTB50.H133.WE16RG	
BTB50.H133.WE18RG	
BTB50.H138.WE20RG	



PERMETTE DI ALLINEARE L'UTENSILE E IL PEZZO IN
LAVORAZIONE CON LA TOLLERANZA DI 0,01mm

BY USING THE CHUCK RG, THE RUNOUT OF THE
CUTTING TOOL CAN BE ADJUSTED TO 0,01mm

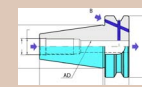


BT WE-RG

BT WE-C

BT WE
2/3

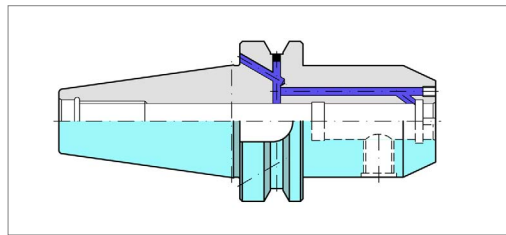
BT WE
1/3



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

BTB40.H50.WE6C	
BTB40.H50.WE8C	
BTB40.H63.WE10C	
BTB40.H63.WE12C	
BTB40.H63.WE14C	
BTB40.H63.WE16C	
BTB40.H63.WE18C	
BTB40.H63.WE20C	
BTB40.H90.WE25C	
BTB40.H100.WE32C	
BTB40.H120.WE40C	

CORPO MANDRINO BILANCIATO G6,3/ 12000 g/min
BASE BODY BALANCED G6,3/ 12000 rpm



MANDRINI WHISTLE-NOTCH WHISTLE NOTCH END MILL HOLDERS

BTB40.H50.WHN6	
BTB40.H50.WHN8	
BTB40.H63.WHN10	
BTB40.H63.WHN12	
BTB40.H63.WHN14	
BTB40.H63.WHN16	
BTB40.H63.WHN18	
BTB40.H63.WHN20	
BTB40.H90.WHN25	
BTB40.H100.WHN32	



BT50.H63.WHN6 *	
BT50.H63.WHN8 *	
BT50.H63.WHN10 *	
BT50.H80.WHN12 *	
BT50.H80.WHN14 *	
BT50.H80.WHN16 *	
BT50.H80.WHN18 *	
BT50.H80.WHN20 *	
BT50.H100.WHN25 *	
BT50.H105.WHN32 *	
BT50.H105.WHN40 *	



CORPO MANDRINO BILANCIATO G6,3/ 12000 1/min
BASE BODY BALANCED G6,3/ 12000 rpm

* Solo AD / AD only

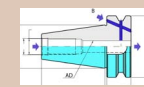
MANDRINI PORTA INSERZIONI REGISTRABILI DIN6327 AUTOMOTIVE SHANK ADAPTERS

BT50.H100.TR28	
BT50.H100.TR36	
BT50.H105.TR48	



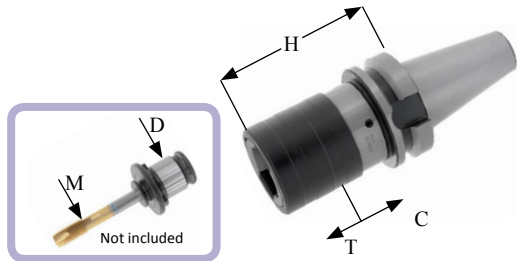
MAS403 JIS B6339 BT

TABELLA DIMENSIONI BT BT DIMENSIONS TABLE



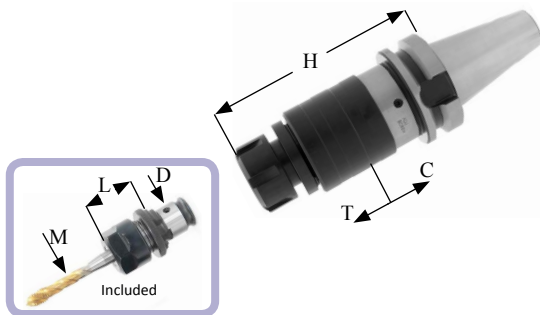
PORTAMASCHI A CAMBIO RAPIDO
COMPENSAZIONE ASSIALE A
TRAZIONE E COMPRESIONE
*QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION*

	M	D	H	T	C
BT30.MCR1TC	M3÷M12	19	63	9	9
BT40.MCR1TC	M3÷M12	19	68	9	9
BT50.MCR1TC	M3÷M12	19	77	9	9
BT40.MCR2TC	M6÷M20	31	95	15	15
BT50.MCR2TC	M6÷M20	31	102	15	15
BT40.MCR3TC	M14÷M33	48	160	24	24
BT50.MCR3TC	M14÷M33	48	143	24	24



PORTAMASCHI A CAMBIO RAPIDO
CON COMPENSAZIONE ASSIALE
A TRAZIONE E COMPRESIONE
*QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION
ERC COLLETS*

	M	D	H	T
BT40.ERC16TC	M3÷M12	98	9	9
BT40.ERC25TC	M3÷M20	133	15	15
BT40.ERC32TC	M6÷M27	145	15	15
BT50.ERC32TC	M6÷M27	144	24	24

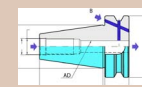


INSERZIONI PORTAMASCHI SENZA FRIZIONE
TAPPING ADAPTERS WITHOUT CLUTCH



INSERZIONI PORTAMASCHI
CON FRIZIONE REGISTRABILE
TAPPING ADAPTERS WITH SAFETY CLUTCH



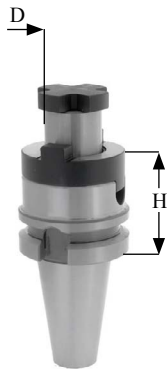


PORTAFRESE COMBINATI - Solo AD COMBI SHELL END MILL HOLDERS - AD only

BT30.H50.D13C	
BT30.H43.D16C	
BT30.H50.D22C	
BT30.H50.D27C	
BT30.H57.D32C	

BT40.H100.D13C	
BT40.H55.D16C	
BT40.H100.D16C	
BT40.H130.D16C	
BT40.H160.D16C	
BT40.H55.D22C	
BT40.H100.D22C	
BT40.H130.D22C	
BT40.H160.D22C	
BT40.H55.D27C	
BT40.H100.D27C	
BT40.H130.D27C	
BT40.H160.D27C	
BT40.H60.D32C	
BT40.H100.D32C	
BT40.H130.D32C	
BT40.H160.D32C	
BT40.H60.D40C	
BT40.H100.D40C	
BT40.H130.D40C	
BT40.H160.D40C	

BT50.H70.D16C	
BT50.H100.D16C	
BT50.H130.D16C	
BT50.H70.D22C	
BT50.H100.D22C	
BT50.H130.D22C	
BT50.H160.D22C	
BT50.H70.D27C	
BT50.H100.D27C	
BT50.H130.D27C	
BT50.H160.D27C	
BT50.H70.D32C	
BT50.H100.D32C	
BT50.H130.D32C	
BT50.H160.D32C	
BT50.H70.D40C	
BT50.H100.D40C	
BT50.H130.D40C	
BT50.H160.D40C	



PORTAFRESE AD INSERTI FACE MILL HOLDERS

Solo AD / AD only

BT40.H50.D40FM	
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BT50.H70.D40FM	
BT50.H80.D60FM	

Forma AD+B / Form AD+B

BTB40.H50.D40FM	
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BTB50.H55.D40FM	
BTB50.H80.D60FM	



PORTAFRESE FISSI SENZA CANALI DI LUBRIFICAZIONE SHELL END MILL HOLDERS WITHOUT COOLANT CHANNELS

BT30.H43.D16SH	
BT30.H43.D22SH	
BT30.H50.D27SH	
BT30.H45.D32SH	

BT40.H45.D16SH	
BT40.H100.D16SH	
BT40.H120.D16SH	
BT40.H100.D22SH	
BT40.H130.D22SH	
BT40.H100.D27SH	
BT40.H120.D27SH	
BT40.H100.D32SH	
BT40.H120.D32SH	
BT40.H100.D40SH	
BT40.H120.D40SH	

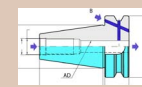


DISPONIBILI FINO ALL'ESAURIMENTO
DELLE SCORTE
AVAILABLE TILL THE END OF STOCK
RESERVES



MAS403 JIS B6339 BT

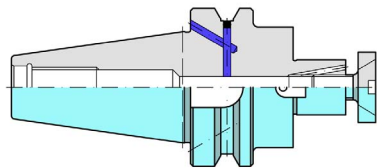
TABELLA DIMENSIONI BT BT DIMENSIONS TABLE



PORTAFRESE FISSI CON CANALI DI LUBRIFICAZIONE
SHELL END MILL HOLDERS
WITH COOLANT CHANNELS

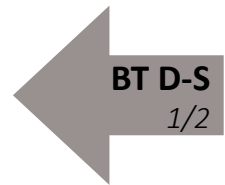
BTB40.H35.D16SP	
BTB40.H45.D16S	
BTB40.H100.D16S	
BTB40.H130.D16S	
BTB40.H160.D16S	
BTB40.H200.D16S	
BTB40.H35.D22SP	
BTB40.H45.D22S	
BTB40.H100.D22S	
BTB40.H130.D22S	
BTB40.H160.D22S	
BTB40.H200.D22S	
BTB40.H35.D27SP	
BTB40.H45.D27S	
BTB40.H100.D27S	
BTB40.H130.D27S	
BTB40.H160.D27S	
BTB40.H200.D27S	
BTB40.H50.D32SP	
BTB40.H56.D32S	
BTB40.H100.D32S	
BTB40.H130.D32S	
BTB40.H160.D32S	
BTB40.H200.D32S	
BTB40.H50.D40SP	
BTB40.H60.D40S	
BTB40.H100.D40S	
BTB40.H130.D40S	
BTB40.H160.D40S	
BTB40.H200.D40S	

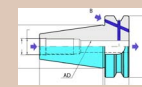
WITH ADDITIONAL 4 SCREW HOLES
IN COMPLIANCE WITH DIN2079



PORTAFRESE FISSI CON CANALI DI LUBRIFICAZIONE
SHELL END MILL HOLDERS
WITH COOLANT CHANNELS

BTB50.H50.D16SP	
BTB50.H75.D16S	
BTB50.H100.D16S	
BTB50.H130.D16S	
BTB50.H160.D16S	
BTB50.H200.D16S	
BTB50.H250.D16S	
BTB50.H300.D16S	
BTB50.H350.D16S	
BTB50.H55.D22SP	
BTB50.H75.D22S	
BTB50.H100.D22S	
BTB50.H130.D22S	
BTB50.H160.D22S	
BTB50.H200.D22S	
BTB50.H250.D22S	
BTB50.H300.D22S	
BTB50.H350.D22S	
BTB50.H55.D27SP	
BTB50.H75.D27S	
BTB50.H100.D27S	
BTB50.H130.D27S	
BTB50.H160.D27S	
BTB50.H200.D27S	
BTB50.H250.D27S	
BTB50.H300.D27S	
BTB50.H350.D27S	
BTB50.H55.D32SP	
BTB50.H75.D32S	
BTB50.H100.D32S	
BTB50.H130.D32S	
BTB50.H160.D32S	
BTB50.H200.D32S	
BTB50.H250.D32S	
BTB50.H300.D32S	
BTB50.H350.D32S	
BTB50.H55.D40SP	
BTB50.H75.D40S	
BTB50.H100.D40S	
BTB50.H130.D40S	
BTB50.H160.D40S	
BTB50.H200.D40S	

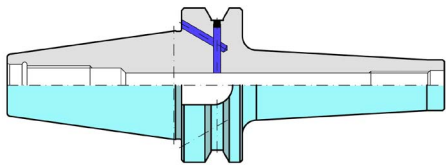




MANDRINI PER FRESE FILETTATE TOOLHOLDERS FOR SCREWED MILLING CUTTERS

BTB40.H63.M8CPY	
BTB40.H83.M8CPY	
BTB40.H103.M8CPY	
BTB40.H123.M8CPY	
BTB40.H63.M10CPY	
BTB40.H83.M10CPY	
BTB40.H103.M10CPY	
BTB40.H123.M10CPY	
BTB40.H63.M12CPY	
BTB40.H83.M12CPY	
BTB40.H103.M12CPY	
BTB40.H123.M12CPY	
BTB40.H63.M16CPY	
BTB40.H83.M16CPY	
BTB40.H103.M16CPY	
BTB40.H123.M16CPY	
BTB40.H153.M16CPY	

CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE BODY BALANCED G2,5/ 20000 rpm



PROLUNGHE PER FRESE FILETTATE EXTENSIONS FOR SCREWED MILLING CUTTERS

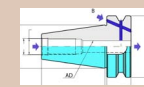
D20.L75.M8CPY	
D20.L100.M8CPY	
D20.L125.M8CPY	
D20.L150.M8CPY	
D20.L75.M10CPY	
D20.L100.M10CPY	
D20.L125.M10CPY	
D20.L150.M10CPY	
D25.L81.M12CPY	
D25.L131.M12CPY	
D25.L181.M12CPY	
D32.L85.M16CPY	
D32.L135.M16CPY	
D32.L185.M16CPY	



PORTAPINZE CON ATTACCO FILETTATO COLLET CHUCKS WITH SCREWED SHANK

M12.H50.ERC16M	
M16.H50.ERC16M	





MANDRINI PER IL CALETTAMENTO TERMICO SHRINK FIT HOLDERS

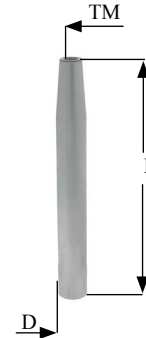
BTB40.H90.TM3	
BTB40.H90.TM4	
BTB40.H90.TM5	
BTB40.H90.TM6	
BTB40.H120.TM6	
BTB40.H160.TM6	
BTB40.H90.TM8	
BTB40.H120.TM8	
BTB40.H160.TM8	
BTB40.H90.TM10	
BTB40.H120.TM10	
BTB40.H160.TM10	
BTB40.H90.TM12	
BTB40.H120.TM12	
BTB40.H160.TM12	
BTB40.H90.TM14	
BTB40.H90.TM16	
BTB40.H120.TM16	
BTB40.H160.TM16	
BTB40.H90.TM18	
BTB40.H90.TM20	
BTB40.H120.TM20	
BTB40.H160.TM20	
BTB40.H100.TM25	

CORPO MANDRINO BILANCIATO G2,5/ 20000 g/min
BASE BODY BALANCED G2,5/ 20000 rpm



PROLUNGHE PER CALETTAMENTO TERMICO SHRINK FIT EXTENSIONS

D20.L150.TM3	
D20.L150.TM4	
D20.L150.TM5	
D20.L150.TM6	
D20.L150.TM8	
D20.L150.TM10	
D20.L150.TM12	



CARATTERISTICHE DEI MANDRINI

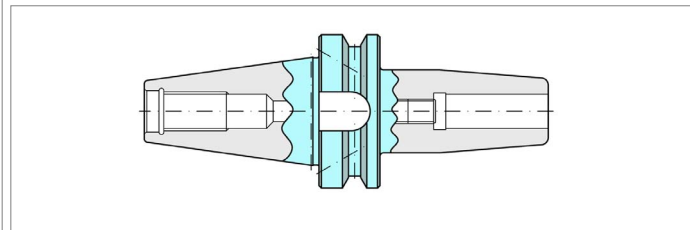
- COSTRUITI IN ACCIAIO
 - CON RESISTENZA DI 1600/1800 N/mm²
 - DUREZZA RC52 + 2
 - TEMPERATURA DI RISCALDO MAX 500°C
 - TOLLERANZA DEL GAMBO DELL'UTENSILE DA CALETTARE "h6"
 - REGOLAZIONE ASSIALE UTENSILE 10mm
- FEATURES OF SHRINK HOLDERS
- PRODUCED IN STEEL WITH TENSILE STRENGTH 1600/1800 N/mm²
 - HARDNESS RE52 + 2
 - SHRINKING TEMPERATURE MAX 500°C
 - TOOL SHANK TOLERANCE "h6"
 - LENGTH ADJUSTMENT OF TOOL 10mm

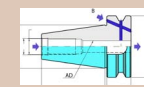


UNITA' DI CALETTAMENTO AD INDUZIONE NEW SHRINK FIT UNIT



I MANDRINI CON CANALI DI LUBRIFICAZIONE SONO FORNIBILI A RICHIESTA
THE TOOLHOLDERS WITH COOLANT CHANNELS ARE SUPPLIED ON REQUEST





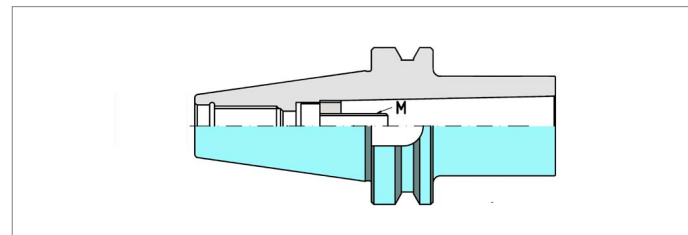
RIDUZIONI A CONO MORSE PER PUNTE MORSE TAPER ADAPTERS FOR DRILLS

BT30.H50.CM1P	
BT30.H60.CM2P	
BT30.H79.CM3P	
BT40.H50.CM1P	
BT40.H50.CM2P	
BT40.H70.CM3P	
BT40.H95.CM4P	
BT50.H45.CM1P	
BT50.H120.CM1P	
BT50.H60.CM2P	
BT50.H135.CM2P	
BT50.H65.CM3P	
BT50.H155.CM3P	
BT50.H95.CM4P	
BT50.H180.CM4P	
BT50.H105.CM5P	
BT50.H215.CM5P	
BTB40.H50.CM2P	
BTB40.H70.CM3P	
BTB40.H95.CM4P	
BTB50.H60.CM2P	
BTB50.H65.CM3P	
BTB50.H95.CM4P	
BTB50.H105.CM5P	



RIDUZIONI A CONO MORSE PER FRESE MORSE TAPER ADAPTERS FOR MILLS

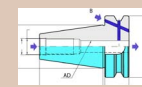
	M
BT40.H50.CM1FV	6
BT40.H50.CM2FV	10
BT40.H70.CM3FV	12
BT40.H95.CM4FV	16
BT50.H60.CM2FV	10
BT50.H65.CM3FV	12
BT50.H90.CM4FV	16
BT50.H120.CM5FV	20
BTB40.H50.CM2FV	10
BTB40.H70.CM3FV	12
BTB40.H95.CM4FV	16
BTB50.H50.CM2FV	10
BTB50.H65.CM3FV	12
BTB50.H95.CM4FV	16
BTB50.H100.CM5FV	20



MANDRINI DI RIDUZIONE BT-SK BT-SK REDUCTION SLEEVES

BT40.H60.SK30	
BT40.H100.SK40	
BT50.H70.SK40	
BT50.H120.SK50	

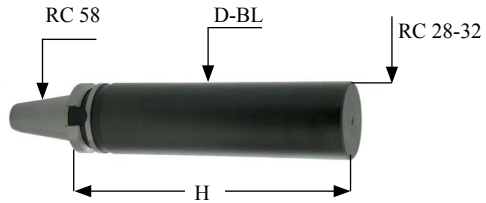




MANDRINI CON STELO LAVORABILE
MACHINABLE BLANK ARBORS

BT40.H250.D40BL	
BT40.H250.D63BL	

BT50.H315.D97BL	
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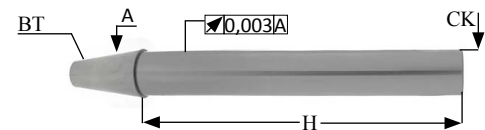
COSRUITI IN ACCIAIO 20MnCr5.
A RICHIESTA IN ACCIAIO 25CrMo4.
*MANUFACTURED WITH 20MnCr5 STEEL.
ON REQUEST WITH 25CrMo4 STEEL.*

MANDRINI DI COLLAUDO CERTIFICATI
TEST ARBOR WITH ACCURACY CERTIFICATE

BT30.H200.CK32	
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BT40.H300.CK40	
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BT50.H300.CK50	
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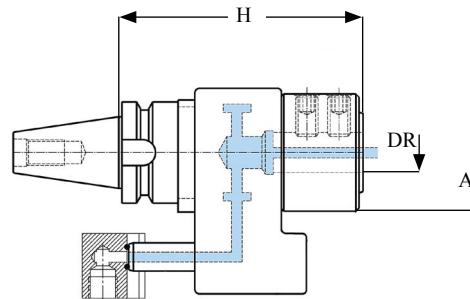


GIRI MAX 3.500
PRESSIONE D'ESERCIZIO Max 20 bar / Min 2 bar
MAX rpm 3.500
COOLANT PRESSURE Max 20 bar / Min 2 bar

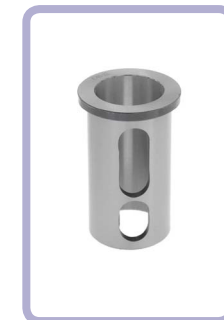
DISTRIBUTORE ROTANTE DI REFRIGERANTE
ROTARY COOLANT FEEDER

	S	A	H
BT40-DR32	65	49,5	165
BT50-DR40	80	56	170

GIRI MAX: 3.500
PRESSIONE D'ESERCIZIO: Max 20bar Min 2bar
MAX rpm: 3.500
COOLANT PRESSURE: Max 20bar Min 2bar

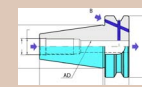


BUSSOLE DI RIDUZIONE
TOOLHOLDER ADAPTERS



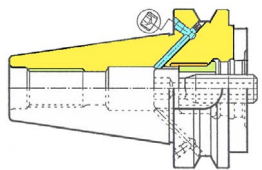
MAS403 JIS B6339 BT

TABELLA DIMENSIONI BT BT DIMENSIONS TABLE



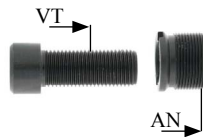
PORTAUTENSILI MODULARI SISTEMA VARILOCK MODULAR TOOL HOLDERS VARILOCK SYSTEM

BTB40.H27.D50MD	
BTB40.H50.D50MD	
BTB40.H27.D63MD	
BTB40.H50.D63MD	
BTB50.H50.D50MD	
BTB50.H50.D63MD	
BTB50.H50.D80MD	



RICAMBI / VITI E ANELLI DI ASSEMBLAGGIO SPARE PART / SETTING SCREW FOR MODULAR TOOL HOLDERS

ANMD 50	
ANMD 63-80	
VTMD 50	
VTMD 63-80	



TASSELLI DI TRASCINAMENTO DRIVING KEY

DKMD50	
DKMD63-80	



ADATTATORI MODULARI DI ESTENSIONE MODULAR EXTENSION ADAPTERS

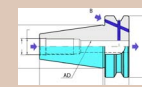


ADATTATORI MODULARI PORTAPINZE MODULAR COLLET CHUCK ADAPTERS



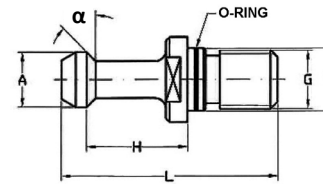
ADATTATORI MODULARI PER FRESE WELDON MODULAR END MILL ADAPTERS





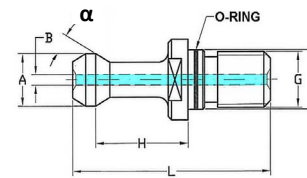
MAS403 BT - SENZA FORO MAS403 BT - WITHOUT COOLANT BORE

	α	G	A	H+0,05	D	L
PS.BT30.1	45°	M12	11	18	12,5	43
PS.BT30.2	60°	M12	11	18	12,5	43
PS.BT40.1	45°	M16	15	28	17	60
PS.BT40.2	60°	M16	15	28	17	60
PS.BT40.3	90°	M16	15	28	17	60
PS.BT50.1	45°	M24	23	35	25	85
PS.BT50.2	60°	M24	23	35	25	85
PS.BT50.3	90°	M24	23	35	25	85



MAS403 - FORATI MAS403 BT - WITH COOLANT BORE

	α	G	A	H+0,05	D	L	B
PS.BT30.1F	45°	M12	11	18	12,5	43	2,5
PS.BT30.2F	60°	M12	11	18	12,5	43	2,5
PS.BT40.1F	45°	M16	15	28	17	60	3
PS.BT40.2F	60°	M16	15	28	17	60	3
PS.BT40.3F	90°	M16	15	28	17	60	3
PS.BT50.1F	45°	M24	23	35	25	85	6
PS.BT50.2F	60°	M24	23	35	25	85	6
PS.BT50.3F	90°	M24	23	35	25	85	6

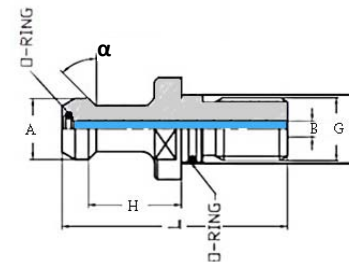


COSTRUITI CON ACCIAI DA CEMENTAZIONE LEGATI AL Ni.Cr.Mo.
CEMENTATI, TEMPERATI,
RINVENUTI CON DUREZZA RC 58 ± 2
FILETTATURA PROTETTA DALLA CEMENTAZIONE,
DUREZZA RC40 ± 2.
RETTIFICATI SU TUTTO IL PROFILO DI AGGANCIO
CON MACCHINE A CONTROLLO NUMERICO

MANUFACTURED WITH NICKEL CHROME
MOLYBDENUM STEEL.
CARBURIZED, HARDENED AND TEMPERED RC 58 ± 2
THE THREAD IS SOFT RC 40 ± 2 FOR NOT BREAKING.
THE CLAMPING PROFILE IS OVERALL GROUND WITH
CNC GRINDERS

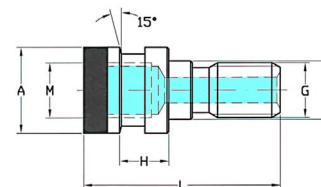
MAS403 - FORATI MAS403 BT - WITH COOLANT BORE

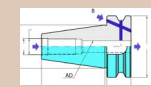
	α	G	A	H+0,05	D	L	B
PS.BT40.1F2OR	45°	M16	15	28	17	60	3
PS.BT50.1F2OR	45°	M24	23	35	25	85	6
PS.BT50.2F2OR	60°	M24	23	35	25	85	6
PS.BT50.3F2OR	90°	M24	23	35	25	85	6



TIPO OTT - FORATI OTT TYPE - WITH COOLANT BORE

	G	A	H+0,05	D	L	M
PS.OTT40BT	M16	25	17,54	17	56	M16
PS.OTT50BT	M24	39,6	14	25	65	M24



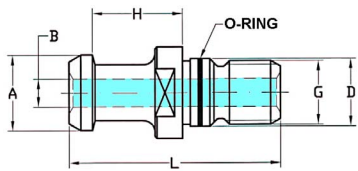


JS/B6339 FORATI - PIANO TESTA RETTIFICATO
JS/B6339 WITH COOLANT BORE
HEAD FLAT GRINDED FOR SEALING

	G	A	H+0,05	D	L	B
PS.JS40-3	M16	19	23	17	54	3
PS.JS40-4	M16	19	23	17	54	4
PS.JS40-5	M16	19	23	17	54	5
PS.JS40-554	M16	19	23	17	54	5,5-4
PS.JS40-6	M16	19	23	17	54	6
PS.JS40-7	M16	19	23	17	54	7
PS.JS50-10	M24	28	25	25	74	10

JS/B6339 SENZA FORO
JS/B6339 WITHOUT COOLANT BORE

	G	A	H+0,05	D	L
PS.JS40SF	M16	19	23	17	54
PS.JS50SF	M24	28	25	25	74

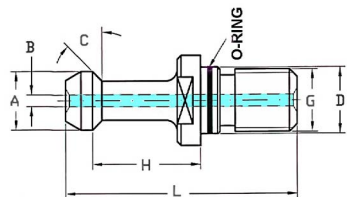


TIPO HURCO - FORATI
HURCO TYPE WITH COOLANT BORE

	α	G	A	H+0,05	D	L
PS.BT40-HC1	45°	M16	15	25,15	57,15	3
PS.BT40-HC2	60°	M16	15	25,15	57,15	3
PS.BT40-HC3	90°	M16	15	25,15	57,15	3

TIPO HURCO - SENZA FORO
HURCO TYPE WITHOUT COOLANT BORE

	α	G	A	H+0,05	D
PS.BT40-HC1.SF	45°	M16	15	25,15	57,15
PS.BT40-HC2.SF	60°	M16	15	25,15	57,15
PS.BT40-HC3.SF	90°	M16	15	25,15	57,15

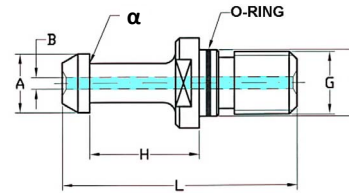


TIPO MITSUI SEIKI - FORATI
MITSUI SEIKI TYPE - WITH COOLANT BORE

	G	A	H+0,05	D	L	B
PS.BT40.31F	M16	15	18	17	50	3
PS.BT50.31F	M24	24	23	25	71	8

TIPO MITSUI SEIKI - SENZA FORO
MITSUI SEIKI TYPE - WITHOUT COOLANT BORE

	G	A	H+0,05	D	L
PS.BT40.31	M16	15	18	17	50
PS.BT50.31	M24	24	23	25	71

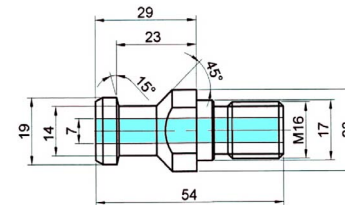


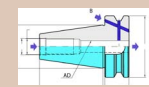
TIPO KITAMURA - FORATI
KITAMURA TYPE - WITH COOLANT BORE

PS.KITAMURA-M16/F7

TIPO KITAMURA - SENZA FORO
KITAMURA TYPE - WITHOUT COOLANT BORE

PS.KITAMURA-M16/SF





CHIAVI DINAMOMETRICHE PER TIRANTI
TORQUE WRENCHES FOR PULL STUDS MOUNTING

TW803-210



BUSSOLE INTERCAMBIABILI
INTERCHANGEABLE SOCKET

SKT40.BT	
SKT50.BT	
SKT40.JIS	
SKT50.JIS	



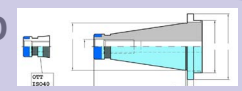
CHIAVE A CRICCHETTO
QUICK RATCHET

CRC12RV



FORZA DI SERRAGGIO CONSIGLIATA PER I TIRANTI
RECOMMENDED TIGHTENING TORQUE FOR PULL STUD BOLT

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



PORTAPINZE
COLLET CHUCKS



PORTAPINZE PER PINZE EOC
EOC COLLET CHUCKS



MANDRINI AUTOSERRANTI
DRILL CHUCKS



MANDRINI PER FRESE WELDON
END MILL HOLDERS



PORTAMASCHI
TAP HOLDERS



MANDRINI DI RIDUZIONE
REDUCTION SLEEVES



PORTAFRESE COMBINATI
COMBI SHELL END MILL HOLDERS



PORTAFRESA AD INSERTI
FACE MILL HOLDERS



PORTAFRESE FISSI
SHELL END MILL HOLDERS



RIDUZIONI A CONO MORSE
PER PUNTE
MORSE TAPER ADAPTERS FOR DRILLS



RIDUZIONI A CONO MORSE
PER FRESE
MORSE TAPER ADAPTERS FOR MILLS

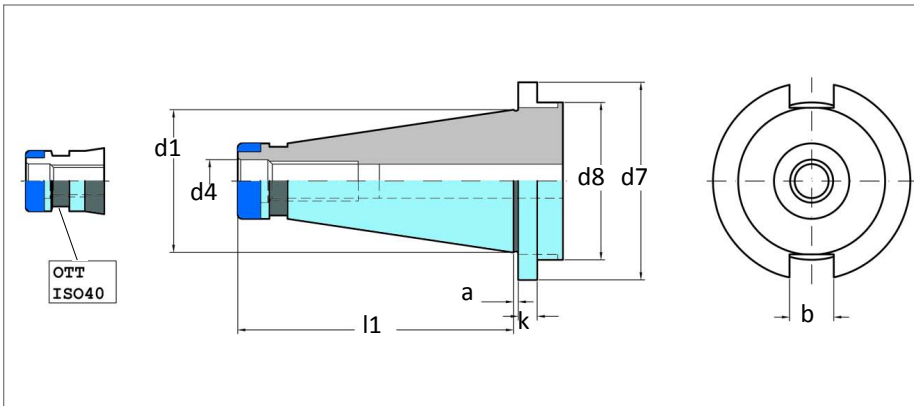
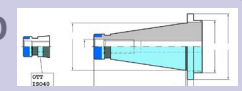


MANDRINI A STELO LAVORABILE
MACHINABLE BLANK ARBORS



NMTB
ANSI B5.18





DIMENSIONI ATTACCHI ISO-DIN2080

ISO-DIN2080 SHANK DETAILS

TAPER	d1	a	b	d4	d7	l1	k	d8
ISO30	31,75	1,6	16,1	M12	50	68,4	8	36
ISO40 *	44,45	1,6	16,1	M16	63	93,4	10	50
ISO50	69,85	3,2	25,7	M24	97,5	126,8	12	78

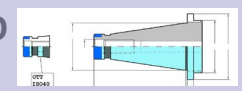
* ISO40 con gola MAHO-OTT

* ISO40 with MAHO-OTT groove



I MANDRINI **ISO** SONO COSTRUITI IN ACCIAIO 20MnCr5.
SONO CEMENTATI CON UNA PROFONDITA' MINIMA DI 0,6/0,8 mm.
LA DUREZZA SUPERFICIALE E' DI 58 +/-2 HRC.
SONO BRUNITI E RETTIFICATI CON PRECISIONE AT3 PER IL CONO D'ATTACCO.
LA RUGOSITA' MAX E' 0,001mm.

ISO TOOLHOLDERS ARE MANUFACTURED WITH 20MnCr5 CASE HARDENED STEEL.
THE MINIMUM DEPTH OF CASE IS 0,6/0,8mm.
SURFACE HARDNESS: 58 +/-2 Rc.
THE ACCURACY OF THE SHANK TAPER IS AT3.
THE SURFACE ROUGHNESS IS MAX 0,001mm.



PORTAPINZE COLLET CHUCKS

	A
ISO30.H50.ERC25	42
ISO30.H75.ERC25	42
ISO30.H50.ERC32	50
ISO30.H70.ERC32	50
ISO30.H80.ERC32	50
ISO30.H100.ERC32	50
ISO30.H110.ERC32	50
ISO30.H70.ERC40	63
ISO30.H84.ERC40	63
ISO30.H100.ERC40	63



ISO40.H47.ERC16	28
ISO40.H63.ERC16	28
ISO40.H90.ERC20	34
ISO40.H47.ERC25	42
ISO40.H70.ERC25	42
ISO40.H100.ERC25	42
ISO40.H130.ERC25	42
ISO40.H49.ERC32	50
ISO40.H70.ERC32	50
ISO40.H90.ERC32	50
ISO40.H100.ERC32	50
ISO40.H130.ERC32	50
ISO40.H56.ERC40	63
ISO40.H70.ERC40	63
ISO40.H100.ERC40	63
ISO40.H130.ERC40	63
ISO40.H160.ERC40	63
ISO40.H200.ERC40	63
ISO40.H103.ERC50	78



ISO50.H80.ERC25	42
ISO50.H69.ERC32	50
ISO50.H100.ERC32	50
ISO50.H130.ERC32	50
ISO50.H160.ERC32	50
ISO50.H63.ERC40	63
ISO50.H100.ERC40	63
ISO50.H130.ERC40	63
ISO50.H160.ERC40	63
ISO50.H67.ERC50	78
ISO50.H83.ERC60	83



CASSETTA CON PORTAPINZA E PINZE COLLET CHUCK AND COLLETS KIT

6 PINZE ERC32 D. 6-8-10-12-16-20
6 ERC32 COLLETS D. 6-8-10-12-16-20

BX.ISO40.49/32-6

18 PINZE ERC32 D. 3÷20 x 1mm
18 ERC32 COLLETS D. 3÷20 x 1mm

BX.ISO30.50/32-18
BX.ISO40.49/32-18
BX.ISO50.69/32-18

23 PINZE ERC40 D. 4÷26 x 1mm
23 ERC40 COLLETS D. 4÷26 x 1mm

BX.ISO40.56/40-23
BX.ISO50.63/40-23



Montaconi
Assembly device



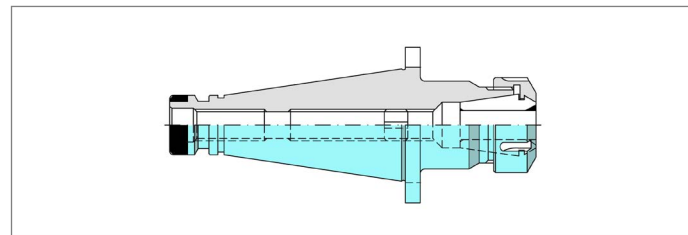
Pinze ERC
ERC Collets

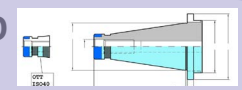


Ghiere Standard
Standard Nuts



Ghiere Esagonali
Exagonal Nuts





CASSETTE CON MANDRINI A FORTE SERRAGGIO
POWER MILLING CHUCKS KITS

DISPONIBILI
A RICHIESTA

AVAILABLE
ON REQUEST



PORTAPINZE PER PINZE EOC
EOC COLLET CHUCKS

	A
ISO30.H68.EOC25	60
ISO40.H55.EOC16	43
ISO40.H66.EOC25	60
ISO40.H95.EOC32	72
ISO50.H57.EOC25	60
ISO50.H71.EOC25	60
ISO50.H73.EOC32	72



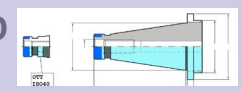
Montaconi
Assembly device



Pinze EOC
EOC Collets



Ghiere EOC
EOC Nuts



ATTACCHI PER MANDRINI AUTOSERRANTI
DRILL CHUCKS ARBORS

ISO30.H15.B16	
ISO40.H17.B12	
ISO40.H17.B16	
ISO40.H17.B18	
ISO50.H20.B16	
ISO50.H20.B18	



MANDRINI AUTOSERRANTI CON CHIAVE ESAGONALE
HEX KEY LOCK DRILL CHUCKS

ISO40.H105.CP13	
ISO40.H110.CP16	
ISO50.H98.CP13	
ISO50.H103.CP16	



CHIAVI DI RICAMBIO
WRENCHES

CH.DCK12	
CH.DCK13	
CH.DCK16	
CH.CP13-16	



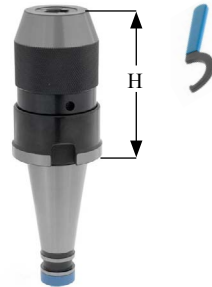
MANDRINI AUTOSERRANTI DI RICAMBIO
REPLACEMENT DRILL CHUCKS

CP13.MT3	
CP16.MT3	



MANDRINI AUTOSERRANTI CON CHIAVE
DRILL CHUCKS WITH HOOK WRENCH

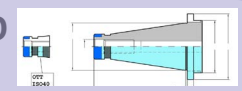
ISO40.H88.DCK13	
ISO40.H100.DCK16	
ISO50.H81.DCK13	
ISO50.H86.DCK16	



MANDRINI AUTOSERRANTI DI RICAMBIO
ATTACCO CM3
REPLACEMENT DRILL CHUCK HEADS
TAPER MOUNTING MT3

DCK13.MT3S	
DCK16.MT3S	





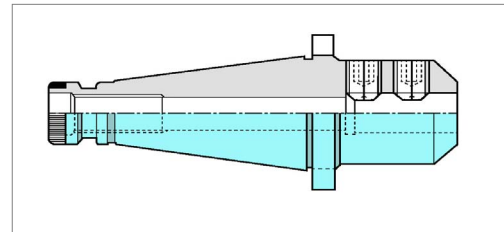
MANDRINI EXTRACORTI PER FRESE WELDON
STUB END MILL HOLDERS

ISO40.H22.WE16	
ISO40.H22.WE20	
ISO40.H22.WE25	



MANDRINI PER FRESE WELDON
END MILL HOLDERS

ISO50.H63.WE6	
ISO50.H63.WE8	
ISO50.H63.WE10	
ISO50.H63.WE12	
ISO50.H63.WE14	
ISO50.H63.WE16	
ISO50.H63.WE18	
ISO50.H63.WE20	
ISO50.H80.WE25	
ISO50.H80.WE32	
ISO50.H90.WE40	
ISO50.H110.WE50	



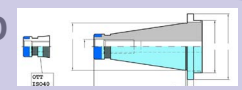
MANDRINI PER FRESE WELDON
END MILL HOLDERS

ISO30.H40.WE6	
ISO30.H40.WE8	
ISO30.H40.WE10	
ISO30.H40.WE12	
ISO30.H40.WE14	
ISO30.H50.WE16	
ISO30.H50.WE18	
ISO30.H63.WE20	
ISO30.H85.WE25	



ISO40.H50.WE6	
ISO40.H50.WE8	
ISO40.H50.WE10	
ISO40.H50.WE12	
ISO40.H50.WE14	
ISO40.H60.WE16	
ISO40.H65.WE18	
ISO40.H65.WE20	
ISO40.H80.WE25	
ISO40.H80.WE32	
ISO40.H90.WE40	
ISO40.H100.WE6	
ISO40.H100.WE8	
ISO40.H100.WE10	
ISO40.H100.WE12	
ISO40.H100.WE14	
ISO40.H100.WE16	
ISO40.H100.WE18	
ISO40.H100.WE20	
ISO40.H100.WE25	
ISO40.H100.WE32	





PORTAMASCHI A CAMBIO RAPIDO
COMPENSAZIONE ASSIALE A TRAZIONE E COMPRESIONE
QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION

	D	CAPACITA'
ISO40.MCR1TC	19	M3÷M12
ISO40.MCR2TC	31	M6÷M20
ISO50.MCR2TC	31	M6÷M20

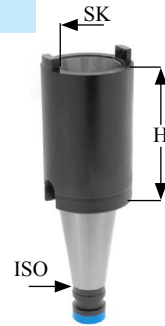


INSERZIONI PORTAMASCHI SENZA FRIZIONE
TAPPING ADAPTERS WITHOUT CLUTCH

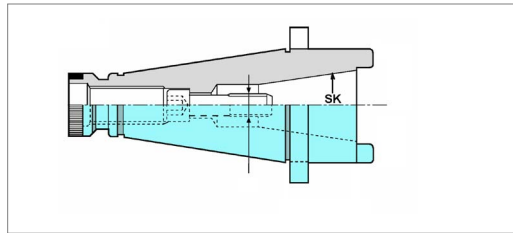


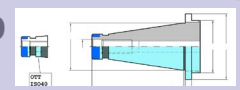
MANDRINI DI RIDUZIONE ISO-SK
ISO-SK REDUCTION SLEEVES

	SK
ISO40.H50.SK30	12
ISO50.H16.SK30	12
ISO50.H16.SK40	16
ISO50.H63.SK40	16
ISO40.H100.SK40	16
ISO50.H125.SK50	24



INSERZIONI PORTAMASCHI CON FRIZIONE REGISTRABILE
TAPPING ADAPTERS WITH SAFETY CLUTCH





PORTAFRESE COMBINATI
COMBI SHELL END MILL HOLDERS

ISO30.H50.D16C	
ISO30.H50.D22C	
ISO30.H50.D27C	
ISO30.H50.D32C	

ISO40.H52.D13C	
ISO40.H52.D16C	
ISO40.H52.D22C	
ISO40.H90.D22C	
ISO40.H52.D27C	
ISO40.H90.D27C	
ISO40.H52.D32C	
ISO40.H100.D32C	
ISO40.H52.D40C	

ISO50.H55.D16C	
ISO50.H100.D16C	
ISO50.H125.D16C	
ISO50.H55.D22C	
ISO50.H100.D22C	
ISO50.H125.D22C	
ISO50.H55.D27C	
ISO50.H100.D27C	
ISO50.H125.D27C	
ISO50.H55.D32C	
ISO50.H100.D32C	
ISO50.H125.D32C	
ISO50.H55.D40C	
ISO50.H100.D40C	
ISO50.H125.D40C	
ISO50.H55.D50C	

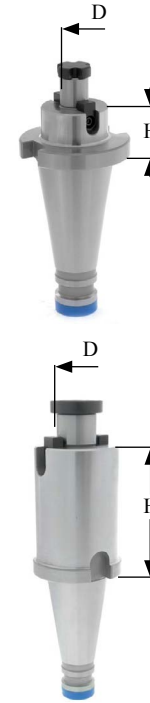


PORTAFRESE FISSI
SHELL END MILL HOLDERS

ISO30.H35.D16S	
ISO30.H35.D22S	
ISO30.H35.D27S	
ISO30.H35.D32S	

ISO40.H30.D13S	
ISO40.H30.D16S	
ISO40.H90.D16S	
ISO40.H35.D22S	
ISO40.H52.D22S	
ISO40.H90.D22S	
ISO40.H35.D27S	
ISO40.H90.D27S	
ISO40.H35.D32S	
ISO40.H35.D40S	
ISO40.H90.D40S	

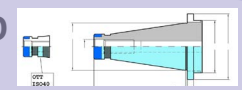
ISO50.H45.D16S	
ISO50.H100.D16S	
ISO50.H125.D16S	
ISO50.H45.D22S	
ISO50.H100.D22S	
ISO50.H125.D22S	
ISO50.H45.D27S	
ISO50.H100.D27S	
ISO50.H125.D27S	
ISO50.H45.D32S	
ISO50.H100.D32S	
ISO50.H125.D32S	
ISO50.H45.D40S	
ISO50.H100.D40S	
ISO50.H125.D40S	



PORTAFRESE AD INSERTI
FACE MILL HOLDERS

ISO40.H30.D40FM	
ISO50.H33.D40FM	
ISO50.H30.D60FM	





Montaconi
Assembly device

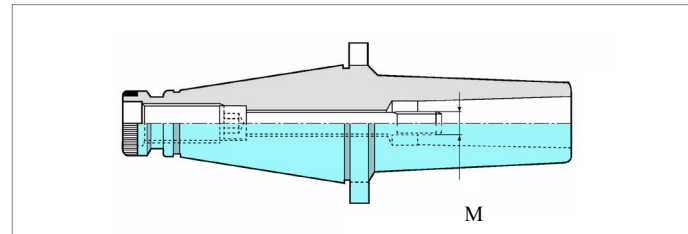
RIDUZIONI A CONO MORSE PER PUNTE
MORSE TAPER ADAPTERS FOR DRILLS

ISO30.H50.CM1P	
ISO30.H50.CM2P	
ISO30.H72.CM3P	
ISO40.H50.CM1P	
ISO40.H50.CM2P	
ISO40.H65.CM3P	
ISO40.H95.CM4P	
ISO50.H60.CM2P	
ISO50.H113.CM2P	
ISO50.H65.CM3P	
ISO50.H133.CM3P	
ISO50.H70.CM4P	
ISO50.H163.CM4P	
ISO50.H105.CM5P	
ISO50.H193.CM5P	



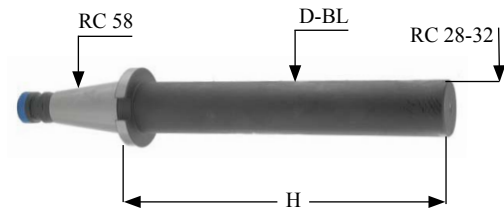
RIDUZIONI A CONO MORSE PER FRESE
MORSE TAPER ADAPTERS FOR MILLS

	M
ISO30.H50.CM1FV	6
ISO30.H50.CM2FV	10
ISO30.H78.CM3FV	12
ISO40.H50.CM1FV	16
ISO40.H50.CM2FV	10
ISO40.H65.CM3FV	12
ISO40.H95.CM4FV	16
ISO50.H60.CM1FV	6
ISO50.H60.CM2FV	10
ISO50.H115.CM2FV	10
ISO50.H165.CM2FV	10
ISO50.H65.CM3FV	12
ISO50.H115.CM3FV	12
ISO50.H165.CM3FV	12
ISO50.H65.CM4FV	16
ISO50.H165.CM4FV	16
ISO50.H120.CM5FV	20

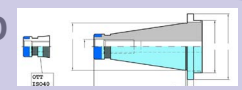


MANDRINI CON STELO LAVORABILE
MACHINABLE BLANK ARBORS

ISO40.H250.D40BL	
ISO50.H315.D97BL	

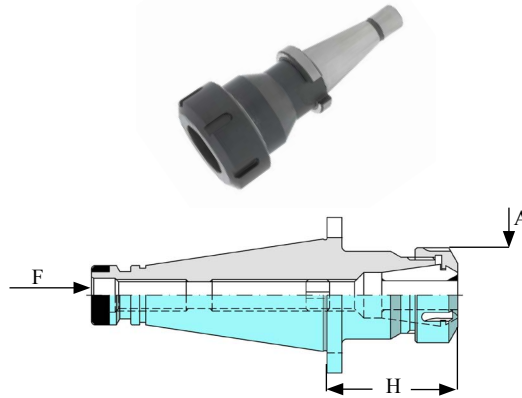


COSRUITI IN ACCIAIO 20MnCr5.
A RICHIESTA IN ACCIAIO 25CrMo4.
MANUFACTURED WITH 20MnCr5 STEEL.
ON REQUEST WITH 25CrMo4 STEEL.



PORTAPINZE ANSI B5.18 - USA
COLLET CHUCKS WITH ANSI B5.18 SHANK - USA

	F	A
NMTB30-H2.75-ERC16	1/2-13	1.10
NMTB30-H2.75-ERC20	1/2-13	1.33
NMTB30-H2.16-ERC32	1/2-13	1.95
NMTB30-H3.30-ERC40	1/2-13	2.48
NMTB40-H3.00-ERC16	5/8-11	1.10
NMTB40-H2.00-ERC20	5/8-11	1.33
NMTB40-H4.00-ERC20	5/8-11	1.33
NMTB40-H2.00-ERC32	5/8-11	1.96
NMTB40-H2.20-ERC40	5/8-11	2.48



CONO MORSE

PORTAPINZE
COLLET CHUCKS



PORTA FRESE COMBINATI
COMBI SHELL END MILL HOLDERS



PORTAMASCHI
A CAMBIO RAPIDO
QUICK CHANGE TAP HOLDERS



BUSSOLE DI RIDUZIONE
A CONO MORSE
MORSE TAPER SLEEVES



MANDRINI AUTOSERRANTI
KEYLESS DRILL CHUCKS



PROLUNGHE PER
UTENSILI A CONO MORSE
MORSE TAPER EXTENSION SOCKETS



ATTACCHI PER MANDRINI
AUTOSERRANTI
DRILL CHUCK ARBORS



MANDRINI
AUTOSERRANTI INTEGRALI
INTEGRATED DRILL CHUCKS



R8

PORTAPINZE R8
R8 COLLET CHUCKS



RIDUZIONI R8 A CONO MORSE
R8 TO MT ADAPTERS



ATTACCHI R8
PER MANDRINI AUTOSERRANTI
R8 DRILL CHUCK ARBORS



MANDRINI AUTOSERRANTI R8
R8 DRILL CHUCKS



PORTAFRESE FISSI R8
R8 SHELL END MILL HOLDERS



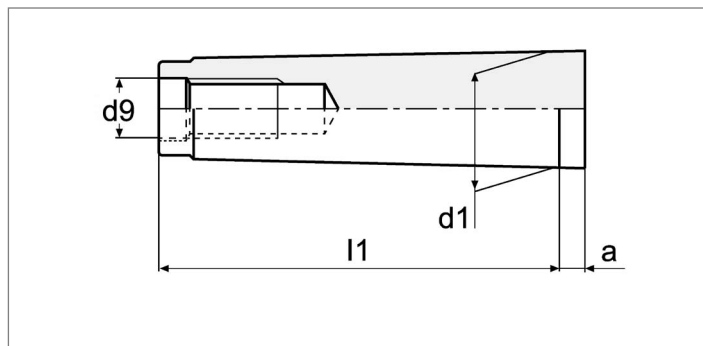
DIN6327

PORTAPINZE
COLLET CHUCKS



PORTAMASCHI
A CAMBIO RAPIDO
QUICK CHANGE TAP HOLDERS





DIMENSIONI ATTACCHI CONO MORSE DIN 228

MT-DIN228 SHANK DETAILS

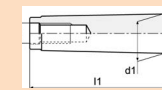
MORSE	d1	a	d9 (1)	l1
CM1	12,065	3,5	M6	53,5
CM2	17,780	5	M10	64
CM3	23,825	5	M12	81
CM4	31,267	6,5	M16	102,5
CM5	44,399	6,5	M20	129,5



(1) Filettatura del tirante di montaggio
Draw-bar thread

DIN 228 CM

TABELLA DIMENSIONI CM CM DIMENSIONS TABLE



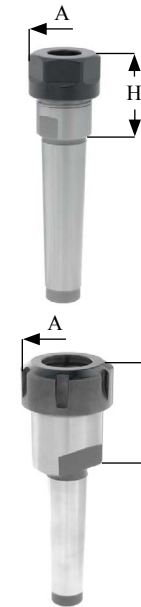
PORTAPINZE MINI MINI COLLET CHUCKS

	A
CM1.H25.ERC11M	16
CM1.H40.ERC16M	22
CM2.H42.ERC16M	22
CM2.H50.ERC20M	28
CM2.H54.ERC25M	35
CM3.H43.ERC16M	22
CM3.H47.ERC20M	28
CM3.H58.ERC25M	35



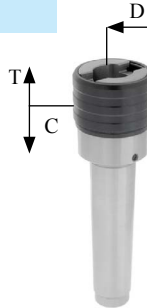
PORTAPINZE COLLET CHUCKS

	A
CM1.H25.ERC11	19
CM1.H40.ERC16	28
CM2.H42.ERC16	28
CM2.H50.ERC20	34
CM2.H54.ERC25	42
CM3.H53.ERC25	42
CM3.H70.ERC32	50
CM3.H80.ERC40	63
CM4.H56.ERC25	42
CM4.H60.ERC32	50
CM4.H81.ERC40	63
CM4.H96.ERC50	78
CM5.H50.ERC32	50
CM5.H82.ERC40	63
CM5.H91.ERC50	78



PORTAMASCHI A CAMBIO RAPIDO CON COMPENSAZIONE ASSIALE A TRAZIONE E COMPRESIONE QUICK CHANGE TAP HOLDERS TENSION AND COMPRESSION

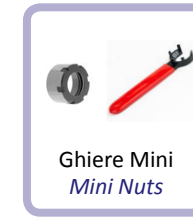
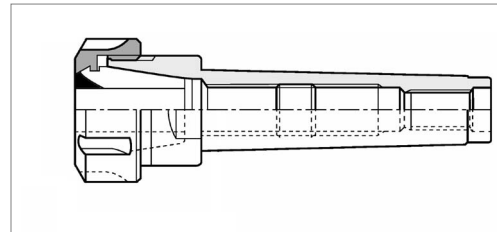
	D
CM2.MCR1TC	19
CM3.MCR1TC	19
CM3.MCR2TC	31
CM4.MCR2TC	31

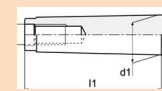


INSERZIONI PORTAMASCHI SENZA FRIZIONE TAPPING ADAPTERS WITHOUT CLUTCH



INSERZIONI PORTAMASCHI CON FRIZIONE REGISTRABILE TAPPING ADAPTERS WITH SAFETY CLUTCH





MANDRINI AUTOSERRANTI KEYLESS DRILL CHUCKS

DC13.B16H	
DC16.B16H	
DC16.B18H	



ATTACCHI PER MANDRINI AUTOSERRANTI DRILL CHUCKS ARBORS

CM1.B10	
CM1.B12	
CM1.B16	

CM2.B10	
CM2.B12	
CM2.B16	
CM2.B18	

CM3.B10	
CM3.B12	
CM3.B16	
CM3.B18	

CM4.B12	
CM4.B16	
CM4.B18	

CM5.B16	
CM5.B18	



MANDRINI AUTOSERRANTI CON CHIAVE DRILL CHUCKS WITH HOOK WRENCH

DCK8.B10S	
DCK10.B12S	
DCK13.B16S	
DCK16.B16S	
DCK16.B18S	



SERIE DI 3 GRIFFE PER DCK13 E DCK16 SET OF 3 JAWS FOR DCK13 AND DCK16

13S JAWS	
16S JAWS	



VITE PER GRIFFE DCK13 E DCK16 JAWS SCREW FOR DCK13 AND DCK16

13S JH	
16S JH	



PORTA FRESE COMBINATI COMBI SHELL END MILL HOLDERS

CM3.H48.D16C	
CM3.H48.D22C	
CM3.H48.D27C	
CM3.H63.D32C	

CM4.H55.D16C	
CM4.H55.D22C	
CM4.H55.D27C	
CM4.H55.D32C	

CM5.H75.D22C	
CM5.H75.D27C	
CM5.H75.D32C	
CM5.H75.D40C	



MANDRINI AUTOSERRANTI CON CHIAVE ESAGONALE HEX KEY DRILL CHUCKS

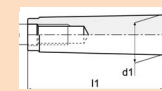
CP13.B16	
CP16.B16	



CHIAVI DI RICAMBIO WRENCHES

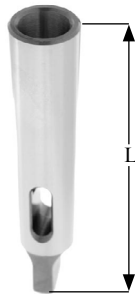
CH.DCK10	
CH.DCK12	
CH.DCK13	
CH.DCK16	
CH-CP13-16	





BUSSOLE DI RIDUZIONE A CONO MORSE
MORSE TAPER SLEEVES DIN2185

	L
BR2-1	92
BR3-1	99
BR3-2	112
BR4-1	124
BR4-2	124
BR4-3	140
BR5-1	156
BR5-2	156
BR5-3	156
BR5-4	174
BR6-4	218
BR6-5	218



PROLUNGHE PER UTENSILI A CONO MORSE
MORSE TAPER EXTENSION SOCKETS DIN2187

	L
BRL1-1-L145	145
BRL1-1-L250	250
BRL1-2	160
BRL2-1	160
BRL2-2	175
BRL2-3	196
BRL3-1	175
BRL3-2	194
BRL3-3	215
BRL4-2	215
BRL4-3	240
BRL4-4	265
BRL5-3	268
BRL5-4	300
BRL5-5	335



MANDRINI AUTOSERRANTI INTEGRALI CON CHIAVE
INTEGRATED DRILL CHUCKS WITH HOOK WRENCH

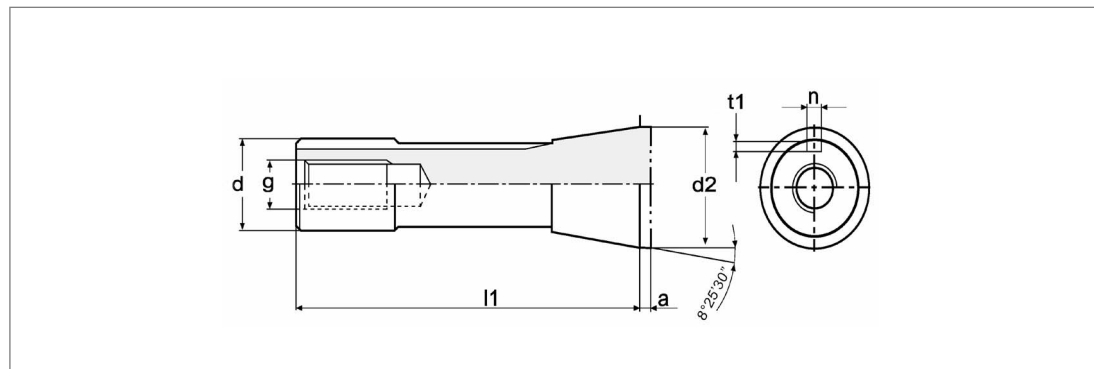
CM3.H86.DCK13	
CM4.H88.DCK13	
CM4.H100.DCK16	



TENONI RIPORTATI
REMOVABLE TANGS

TAG1-M6	
TAG2-M10	
TAG3-M12	
TAG4-M16	





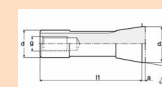
ATTACCHI R8 R8 SHANK DETAILS							
TYPE	d	d2	l1	g (1)	a	n	t1
METRIC	24,12	32	101,6	7/16-20 NF-2B	3,17	4	2,50
INCH	.950''	1.259''	4.00''		.125''	.157''	.098''

(1) Filettatura del tirante di montaggio
Draw-bar thread



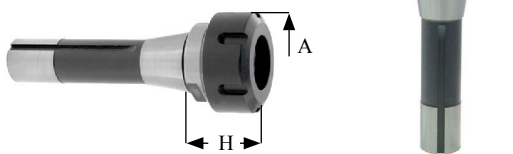
R8

TABELLA DIMENSIONI R8 R8 DIMENSIONS TABLE



PORTAPINZE R8 R8 COLLET CHUCKS

	A
R8.H38.ERC16	28
R8.H40.ERC32	50
R8.H73.ERC40	63



RIDUZIONI R8 A CONO MORSE R8 TO MT ADAPTERS

R8.L114.CM1	
R8.L127.CM2	
R8.L153.CM3	



PORTAPINZE R8 CON 18 PINZE ERC32 D:3-20 x1mm R8 COLLET CHUCK KITS WITH 18 COLLETS ERC32 D:3-20 x 1mm

BXR8.H40.32-18	
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MANDRINI AUTOSERRANTI R8 CON CHIAVE R8 DRILL CHUCKS WITH HOOK WRENCH

R8.H110.DCK13	
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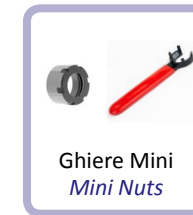
ATTACCHI R8 PER MANDRINI AUTOSERRANTI R8 DRILL CHUCK ARBORS

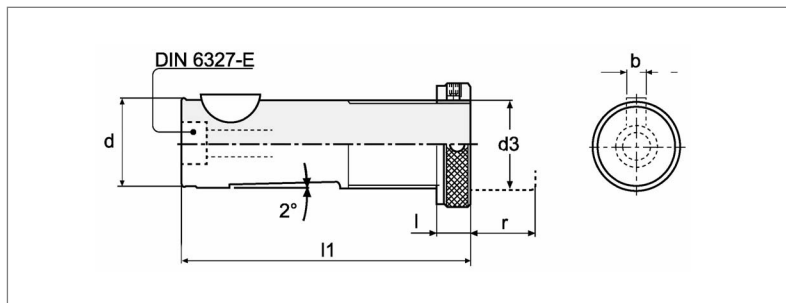
R8.B16	
R8.J2	
R8.J3	
R8.J33	
R8.J6	



PORTAFRESE FISSI R8 R8 SHELL END MILL HOLDERS

R8.H19.D16S	
R8.H23.D22S	
R8.H23.D27S	
R8.H24.D32S	



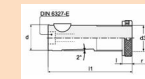


DIMENSIONI ATTACCHI DIN 6327

DIN6327 SHANK DETAILS

d3	d	l1	b	l
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





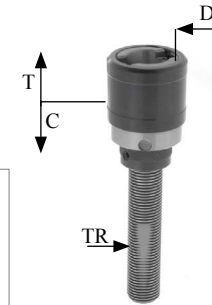
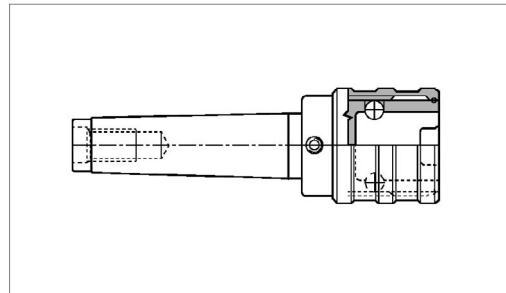
PORTAPINZE MINI MINI COLLET CHUCKS

	A
TR10.L95.ERC11M	16
TR12.L105.ERC16M	22
TR16.L122.ERC16M	22
TR16.L132.ERC20M	28
TR20.L135.ERC20M	28



PORTAMASCHI A CAMBIO RAPIDO CON COMPENSAZIONE ASSIALE A TRAZIONE E COMPRESSIONE QUICK CHANGE TAP HOLDERS TENSION AND COMPRESSION

	A
TR16.MCR1TC	19
TR20.MCR1TC	19
TR28.MCR2TC	31



PORTAPINZE COLLET CHUCKS

	A
TR12.L96.ERC11	19
TR16.L111.ERC11	19
TR16.L122.ERC16	28
TR16.L132.ERC20	34
TR20.L128.ERC16	28
TR20.L146.ERC32	50
TR28.L138.ERC16	28
TR28.L148.ERC25	42
TR28.L153.ERC32	50



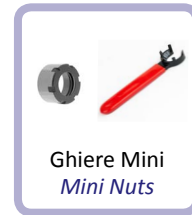
	A
TR36.L163.ERC25	42
TR36.L165.ERC32	50
TR36.L186.ERC40	63
TR48.L207.ERC40	63



INSERZIONI PORTAMASCHI SENZA FRIZIONE TAPPING ADAPTERS WITHOUT CLUTCH



INSERZIONI PORTAMASCHI CON FRIZIONE REGISTRABILE TAPPING ADAPTERS WITH SAFETY CLUTCH



RICAMBI
SPARE PARTS



SUPPORTI DI MONTAGGIO ORIENTABILI
INDEXABLE TOOL ASSEMBLY DEVICE



MORSE
VISES



TASTATORE TRIDIMENSIONALE 3D SENSOR
ORIGINAL TSCHORN



MANDRINI DI COLLAUDO
TESTING ARBORS



SERIE DI PARALLELE
SET OF PARALLELS



TASTATORE TRIDIMENSIONALE 3D SENSOR
ORIGINAL HAIMER



SUPPORTI DI MONTAGGIO
TOOL ASSEMBLY DEVICE



MISURATORI ASSE Z
Z-AXIS GAUGE



TAMPONI PULITORI DELLE SEDI PORTAUTENSILI
SPINDLE TAPER WIPERS



SUPPORTI DI MONTAGGIO A RULLI
TOOL ASSEMBLY DEVICE WITH ROLLERS



RILEVATORI DI POSIZIONE LUMINOSI E SONORI
OPTICAL & ACOUSTIC EDGE FINDERS

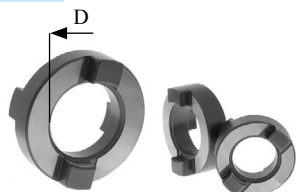


TASTATORI MECCANICI FLOTTANTI
CENTERING DEVICE FLOATING



ANELLI DI TRASCINAMENTO PER MANDRINI COMBI
CLUTCH DRIVE RINGS
FOR COMBI SHELL END MILL HOLDERS

ATR.D13	
ATR.D16	
ATR.D22	
ATR.D27	
ATR.D32	
ATR.D40	
ATR.D50	



DIN6366

VITI A TESTA TONDA
ROUND HEAD SCREWS

	D
VTR.M8	16
VTR.M10	22
VTR.M12	27
VTR.M16	32
VTR.M20	40



VITI A TESTA TONDA
ROUND HEAD SCREWS

	D
VTF.M6	13
VTF.M8	16
VTF.M10	22
VTF.M12	27
VTF.M16	32
VTF.M20	40



VITI A CROCE PER MANDRINI COMBI E FISSI
CROSS RETAINING SCREWS
FOR SHELL END MILL HOLDERS

	D
VTC.M6	13
VTC.M8	16
VTC.M10	22
VTC.M12	27
VTC.M16	35
VTC.M20	40
VTC.M24	50



DIN6367

VITI A FORTE SERRAGGIO
HIGH POWER SCREWS

	D
VTS.M8	16
VTS.M10	22
VTS.M12	27
VTS.M16	32
VTS.M20	40



CHIAVI PER VITI A CROCE
SPANNERS FOR CROSS SCREW

	M
SP13C	6
SP16C	8
SP22C	10
SP27C	12
SP32C	16
SP40C	20
SP50C	24



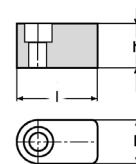
DIN6368

ACC
2/3

ACC
3/3

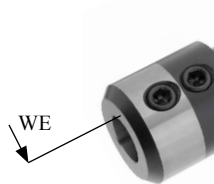
**TASSELLI DI TRASCINAMENTO
PER PORTAFRESA FISSI**
DRIVE KEYS FOR SHELL END MILL HOLDERS

	b	h	l	D
TTR8 (D13-16)	8	8	14	16
TTR10 (D22)	10	10	18	22
TTR12 (D27)	12	12	18	27
TTR14 (D32)	14	14	22	32
TTR16 (D40)	16	16	25	40



VITI PER MANDRINI WELDON
SCREWS FOR END MILL HOLDERS

	WE
WE.M6 x 10	6
WE.M8 x 10	8
WE.M10 x 12	10
WE.M12 x 16	12-14
WE.M14 x 16	16-18
WE.M16 x 16	20
WE.M18 x 2 x 20	25
WE.M20 x 2 x 20	32-40
WE.M24 x 2 x 25	50



VITI SPECIALI PER MANDRINI WELDON
SPECIAL LOCKING SCREWS FOR END MILL HOLDERS

	WE
WE.M14 x 10	16
WE.M16 x 10	20
WE.M16 x 1 x 8	25-32
WE.M18 x 2 x 12	25



CHIAVE DINAMOMETRICA PER VITI WELDON
DYNAMOMETRIC WRENCH FOR END MILL HOLDER SCREWS

	VITE	ESA	Nm
CDWE6	M6	EX3	6
CDWE8	M8	EX4	10
CDWE10	M10	EX5	16
CDWE12.14	M12	EX6	28
CDWE16.18	M14	EX6	42
CDWE20	M16	EX8	50
CDWE25	M18x2	EX10	60
CDWE32.40	M20x2	EX10	72
CDWE50	M24x2	EX12	90



ANELLI DISTANZIATORI SPACING COLLARS

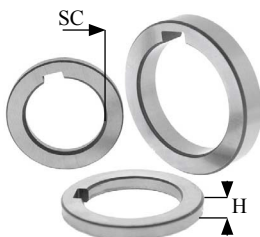
SC16.1	
SC16.2	
SC16.3	
SC16.4	
SC16.5	
SC16.10	

SC22.1	
SC22.2	
SC22.3	
SC22.4	
SC22.5	
SC22.10	
SC22.20	

SC27.1	
SC27.2	
SC27.3	
SC27.4	
SC27.5	
SC27.10	
SC27.20	
SC27.30	

SC32.1	
SC32.2	
SC32.3	
SC32.4	
SC32.5	
SC32.10	
SC32.20	
SC32.30	

SC40.1	
SC40.2	
SC40.3	
SC40.4	
SC40.5	
SC40.6	
SC40.10	
SC40.20	
SC40.30	



DIN2084

VITI PER MANDRINI WHISLE-NOTCH LOCKING SCREWS WITH HALF BALL

	WHN
WHN.M6 x 10	6
WHN.M8 x 10	8
WHN.M10 x 12	10
WHN.M12 x 16	12-14
WHN.M14 x 16	16-18
WHN.M16 x 16	20
WHN.M18 x 2 x 20	25
WHN.M20 x 2 x 20	32-40



FORNITE A RICHIESTA / SUPPLIED ON REQUEST

TAMPONI PULITORI PER LE SEDI PORTAUTENSILI PER CONO MORSE SPINDLE TAPER WIPERS FOR MORSE TAPERS

TCL1.MT	
TCL2.MT	
TCL3.MT	
TCL4.MT	
TCL5.MT	



TAMPONI PULITORI PER LE SEDI PORTAUTENSILI PER SK SPINDLE TAPER WIPERS FOR SK TAPERS

TCL30	
TCL40	
TCL50	



TAMPONI PULITORI PER LE SEDI PORTAUTENSILI PER HSK SPINDLE TAPER WIPERS FOR HSK TAPERS

TCL40.HSK	
TCL50.HSK	
TCL63.HSK	
TCL100.HSK	



ACC
1/3

ACC
2/3

FOR HSK32 + CAPTO C3

TBRL1.32

FOR HSK40 + CAPTO C4

TBRL1.40

FOR BT30

TBRL1.46

FOR HSK50 + TC/BT/ISO/CAT30 + CAPTO C5

TBRL1.50

FOR HSK63 + TC/BT/ISO40 + CAPTO C6

TBRL1.63

FOR HSK80 + CAPTO C8

TBRL1.80

FOR TC50

TBRL1.97

FOR HSK100 + BT/ISO50

TBRL1.100



FOR HSK63 + TC/BT/ISO40 + CAPTO C6

TBRL2.63



FOR HSK63 + TC/BT/ISO40 + CAPTO C6

TBRL4.63AX



FOR HSK63 + TC/BT/ISO40 + CAPTO C6

TBRL6.63KT



FOR HSK63 + TC/BT/ISO40 + CAPTO C6

TBRL20.63OR



LA SEDE PORTAUTENSILE E' ORIENTABILE IN 5 POSIZIONI
THE TOOL-HEAD CAN BE SET IN 5 POSITIONS

FOR HSK63 + TC/BT/ISO40 + CAPTO C6

TBRL21.63OE



LA SEDE PORTAUTENSILE E' ORIENTABILE IN VERTICALE E ORIZZONTALE
THE TOOL-HEAD CAN BE SET IN VERTICAL AND HORIZONTAL POSITION

CARATTERISTICHE

LA GABBIA A RULLI BLOCCA SOLO LA FLANGIA DEL PORTAUTENSILE SENZA ALCUN CONTATTO CON IL CONO.

FEATURES

*THE TOOLHOLDER'S FLANGE IS CLAMPED BY THE SLIDING-BEARING.
NO CONTACT WITH THE TAPER.*

I SUPPORTI DI MONTAGGIO DEVONO ESSERE FISSATI AL BANCO DI LAVORO O AL CARRELLO PORTAUTENSILI
THE TOOL ASSEMBLY DEVICE MUST BE FIXED TO A BENCH OR TO A TOOL CART



SUPPORTI DI MONTAGGIO ORIENTABILI INDEXABLE TOOL ASSEMBLY DEVICE

FOR TC/BT/CAT/ISO30

TBAX.30

FOR TC/BT/CAT/ISO40

TBAX.40

FOR TC/BT/CAT/ISO50

TBAX.50

FOR HSK63

TBAX.63SK



FOR TC/BT/CAT/ISO30

TBTS30

FOR TC/BT/CAT/ISO40

TBTS40

FOR TC/BT/CAT/ISO50

TBTS50

FOR HSK63

TBTS63HSK



FOR TC/BT/CAT/ISO30

TBK 30

FOR HSK63 + TC/BT/CAT/ISO40

TBK 40

FOR HSK100 + TC/BT/CAT/ISO50

TBK 50



**I SUPPORTI DI MONTAGGIO DEVONO
ESSERE FISSATI AL BANCO DI LAVORO
O AL CARRELLO PORTAUTENSILI
THE TOOL ASSEMBLY DEVICE MUST BE
FIXED TO A BENCH OR TO A TOOL CART**

SUPPORTI DI MONTAGGIO TOOL ASSEMBLY DEVICE

PER MANDRINI CILINDRICI D: 16-20-25-32-40
FOR CYLINDRICAL TOOLING D: 16-20-25-32-40

TCY50-UNIV



FOR SK30/DIN69871

TB3.SK30

FOR SK40/DIN69871

TB3.SK40

FOR SK50/DIN69871

TB3.SK50

FOR BT30

TB3.BT30

FOR BT40

TB3.BT40

FOR BT 50

TB3.BT50



FOR TC/BT/CAT/ISO30

THF30



FOR TC/BT/CAT/ISO40

TAL40

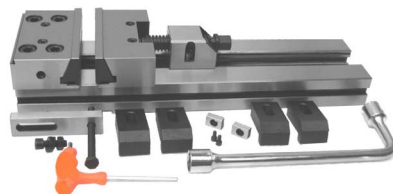
FOR TC/BT/CAT/ISO50

TAL50

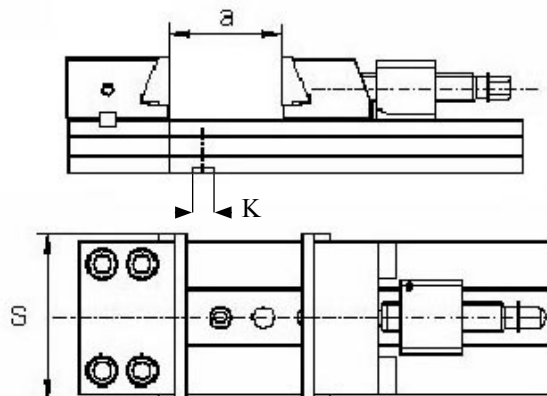


MORSE - SERIE STANDARD
VISES - STANDARD SERIES

	a max	S	K	Kgs
GT150-200	200	150	16	25
GT150-300	300	150	16	29
GT200-300	300	200	16	69
GT200-400	400	200	16	74

MORSE - SERIE AD ALTA PRECISIONE
VISES - HIGH PRECISION SERIES

	a max	S	K	Kgs
VS150-200	200	150	16	25
VS150-300	300	150	16	29
VS175-200	200	175	16	37
VS175-300	300	175	16	42
VS200-300	300	200	16	69
VS200-400	400	200	16	74
VS200-500	500	200	16	79

**CARATTERISTICHE**

LA GANASCIA MOBILE HA LO SCORRIMENTO RAPIDO A CREMAGLIERA FINO IN PROSSIMITA' DEL PEZZO DA LAVORARE CHE VIENE BLOCCATO AGENDO SULLA VITE CENTRALE PER MEZZO DELLA CHIAVE IN DOTAZIONE.

LA GANASCIA FISSA E' REVERSIBILE ED E' DOTATA DI UN GRADINO DA mm 5X5.

L'INCLINAZIONE DELLE PIASTRE DELLE GANASCIE TENDE A SPINGERE IL PEZZO IN LAVORAZIONE CONTRO LA BASE DELLA MORSA.

LA MORSA E' COSTRUITA IN ACCIAIO 20MnCr5, CEMENTATA (hrc58 MIN) E COMPLETAMENTE RETTIFICATA.

E' FORNITA CON TUTTI GLI ACCESSORI PRESENTI IN FOTOGRAFIA

FEATURES

MOVABLE JAW IS QUICK SLIDING TILL THE PROXIMITY OF THE WORKPIECE WHO IS CLAMPED BY THE MAIN SCREW

THE FIXED JAW IS REVERSIBLE AND HAVE A GRINDED FLAT WIDTH 5 - DEPTH 5 mm.

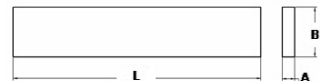
THE TAPERED JAW-PLATES KEEP-DOWN THE WORKPIECE AGAINST THE VISE BASE.

THE VISE IS MANUFACTURED WITH HIGH GRADE ALLOY STEEL, CASE HARDENED (min58Rc) AND GROUND.

SUPPLIED WITH ALL THE ACCESORIES SHOWN ON THE PICTURE

SERIE DI PARALLELE
SET OF PARALLELS

	A	L	B	SET PCS
PRL160-8/16	8	160	12-17-22-25-28-32-36-38	16
PRL150-8/28	8	150	14-16-18-20-22-24-26-28-30-32-35-40-45-50	28
PRL150-10/28	10	150	14-16-18-20-22-24-26-28-30-32-35-40-45-50	28
PRL200-8/16	8	200	17-22-26-28-32-36-38-42	16
PRL200-10/28	10	200	14-16-18-20-22-24-26-28-30-32-35-40-45-50	28



CARATTERISTICHE

COSTRUITE IN ACCIAIO PER UTENSILI
TEMPERATE E COMPLETAMENTE RETTIFICATE IN COPPIA
FORNITE IN CASSETTA DI ALLUMINIO

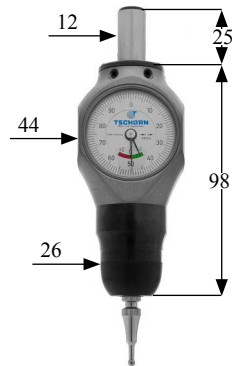
FEATURES

MANUFACTURED WITH ALLOYED TOOL STEEL
FULL HARDENED AND PRECISION GROUND BY PAIR
SUPPLIED IN ALU-BOX

ORIGINAL TSCHORN

TASTATORE TRIDIMENSIONALE GAMBO - D.12
 3D SENSOR - SHANK D.12

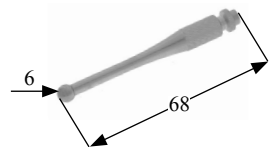
3D-TSCH



Comparatore / Dial Indicator D36

INSERZIONI TASTATRICI CORTE - D.3
 SHORT TIPS - D.3

3D-LSC3



INSERZIONI TASTATRICI LUNGHE - D.6
 LONG TIPS - D.6

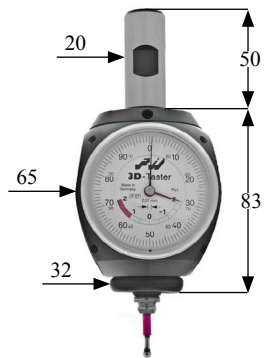
3D-LSC6



ORIGINAL HAIMER

TASTATORE TRIDIMENSIONALE 3D GAMBO D.20
3D SENSOR - SHANK D.20

3D-PD



Comparatore / Dial Indicator D60



INSERZIONI TASTATRICI CORTE - D.4
SHORT TIPS - D.4

3D-LCD4



INSERZIONI TASTATRICI LUNGHE - D.8
LONG TIPS - D.8

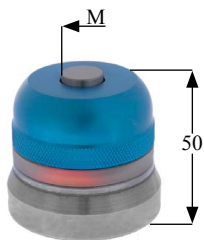
3D-LCD8



MISURATORI ASSE Z Z-AXIS GAUGE

MISURATORE ASSE Z LUMINOSO - MAGNETICO
Z AXIS GAUGE - OPTICAL - MAGNETIC

AZL50



MISURATORE ASSE Z
Z-AXIS GAUGE - MAGNETIC

AZSI 50LH



COMPRATORI DI RICAMBIO PER AZSI 50LH
DIAL INDICATOR FOR AZSI 50LH SPARE PART

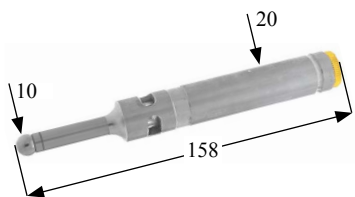
DI-AZSI



RILEVATORE DI POSIZIONE LUMINOSO
E SONORO SU 2 ASSI
2 AXIS - OPTICALE & ACOUSTIC EDGE FINDER

2 AXIS

EF-D20LS

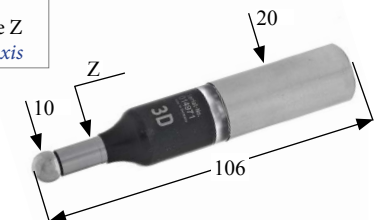


RILEVATORE DI PSIZIONE LUMINOSO SU 3 ASSI
3 AXIS - OPTICAL EDGE FINDER

3 AXIS

3D-D20EF

Z=2mm
Corsa asse Z
Stroke Z axis



La sfera di contatto è ammortizzata. Adatto solo per materiali conduttori di elettricità

IL RILEVATORE NON DEVE RUOTARE E DEVE ESSERE CENTRATO ENTRO 0,005mm

The ball retaining spring save the sensor against overrun. Not applicable for non-conductive materials

NO REVOLUTION FOR THE SENSOR THE RUNOUT ACCURACY MUST BE WITHIN 0,005mm

TASTATORI MECCANICI D.10 FLOTTANTI CENTERING DEVICE D.10 - FLOATING

PEF01DE

KTF1



TASTATORI MECCANICI D.10-4 FLOTTANTI CENTERING DEVICE D10-4 - FLOATING

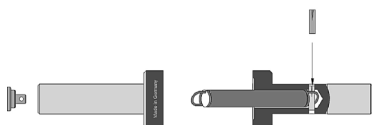
PEF02DE

KTF2



MOLLE DI RICAMBIO PER PEF 01/02 - KTF 1/2 REPLACEMENT SPRINGS FOR PEF 01/02 - KTF 1/2

PEF 01/02-1PC



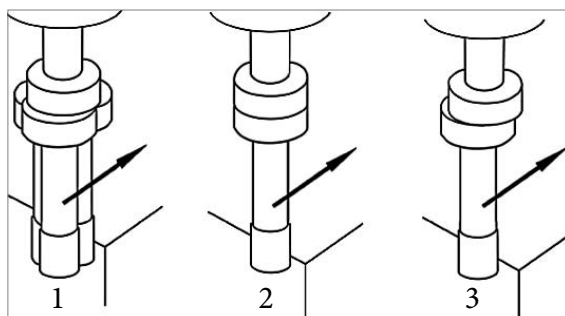
ISTRUZIONI D'USO

- 1 - REGOLARE L'ECCENTRICITA' DEL TASTATORE DI CIRCA 0,5mm
 - 2 - AVVICINARE CON PRUDENZA IL TASTATORE ROTANTE AL PEZZO E PREMERLO LEGGERMENTE FINCHE' L'ECCENTRICITA' VENGA ANNULATA
 - 3 - CONTINUANDO LA PRESSIONE, LA PARTE MOBILE DEL TASTATORE INIZIERA' A SPOSTARSI NEI DUE SENSI.
- IL PUNTO D'ARRESTO CORRISPONDE ALLA POSIZIONE CERCATA

USAGE:

THE APPROACH REFERENCE SURFACES OR EDGES WITH A REPEATABILITY OF 0,005mm.

1. THE EDGE FINDER BODY CAN BE SPLIT OUT FROM THE AXIS CENTRE BY A GENTLE TIP OF THE FINGER.
2. BE SLOWLY AND CAREFULLY APPROACHING THE ROTATING EDGE FINDER TO THE RESPECTIVE REFERENCE SURFACE, THE OSCILLATION MOVEMENT STEADILIES SUCCESSIVELY.
3. WHEN REACHING THE FINAL POSITION THE EDGE FINDER BODY PASSES ALONG THE EDGE. THE POSITION NOW CORRESPONDS TO THE RADIUS OF THE TRACER.



ISO-R230 Recommendation

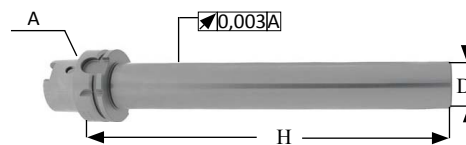
I N D I C E
H S K

HSK- DIN69893

MANDRINI DI COLLAUDO CERTIFICATI

TEST ARBOR WITH ACCURACY CERTIFICATE

HSK32A.H150.CK25	
HSK40A.H150.CK25	
HSK50A.H200.CK32	
HSK63A.H300.CK40	
HSK80A.H300.CK40	
HSK100A.H300.CK50	



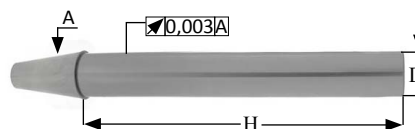
I N D I C E
T C

TC- DIN69871

MANDRINI DI COLLAUDO CERTIFICATI

TEST ARBOR WITH ACCURACY CERTIFICATE

TC30.H200.CK32	
TC40.H300.CK40	
TC50.H300.CK50	



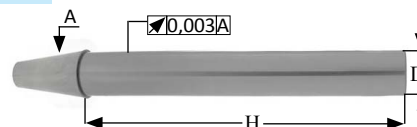
I N D I C E
B T

BT- MAS403

MANDRINI DI COLLAUDO CERTIFICATI

TEST ARBOR WITH ACCURACY CERTIFICATE

BT30.H200.CK32	
BT40.H300.CK40	
BT50.H300.CK50	



PORTAPINZE MINI
MINI COLLET CHUCKS



PROLUNGHE PORTAPINZE EDA
DOUBLE ANGLE COLLET CHUCK EXTENSIONS



PORTAMASCHI A CAMBIO RAPIDO
QUICK CHANGE TAP HOLDERS



BROCCIATORE GIREVOLE
BROACH TOOLHOLDER




PORTAPINZE
COLLET CHUCKS



PORTAFRESE CIRCOLARI
SAW BLADE HOLDERS



PORTAMASCHI COMPENSATI
TENSION AND COMPRESSION TAP HOLDER



PORTAPINZE A CENTRATURA REGOLABILE
ADJUSTABLE COLLET CHUCKS



PORTAPINZE CON PIANO DI BLOCCAGGIO
COLLET CHUCKS WITH FLAT



PROLUNGHE SUPERMINI
SUPERMINI COLLET EXTENSIONS



MASCHIATORE SINCRONIZZATO
SYNCR-O-TAPPING CHUCK



MANDRINI PORTAPINZE A FLANGIA
FLANGE COLLET CHUCKS



PORTAPINZE CON ATTACCO WELDON
WELDON SHANK COLLET CHUCKS



PORTAMASCHI A CAMBIO RAPIDO
QUICK CHANGE TAP HOLDERS



PORTAMASCHI A TRAZIONE
TENSION ONLY TAP HOLDERS



ARRESTO BARRA COMPENSATO REGOLABILE
SPRING LOADED ADJUSTABLE STOP



PORTAPINZE BILATERALI
DOUBLE ENDED COLLET CHUCKS



INSERZIONI PORTAMASCHI
TAPPING ADAPTERS



PORTA ALESATORI OSCILANTI
FLOATING REAMER HOLDERS

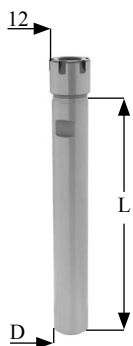


MANDRINI AUTOSERRANTI INTEGRALI
INTEGRATED DRILL CHUCKS



PORTAPINZE MINI MINI COLLET CHUCKS

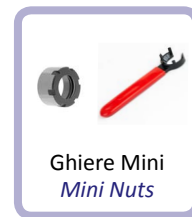
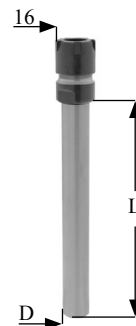
D5.L45.ERC8M *	
D6.L30.ERC8M *	
D6.L45.ERC8M *	
D7.L45.ERC8M *	
D8.L55.ERC8M *	
D8.L80.ERC8M *	
D8.L100.ERC8M *	
D10.L80.ERC8M *	
D10.L100.ERC8M *	
D12.L80.ERC8M *	
D12.L100.ERC8M *	
D12.L130.ERC8M *	
D12.L160.ERC8M *	
D12.L200.ERC8M *	



* SENZA FORO PER IL PASSAGGIO DEL REFRIGERANTE
* WITHOUT COOLANT BORE

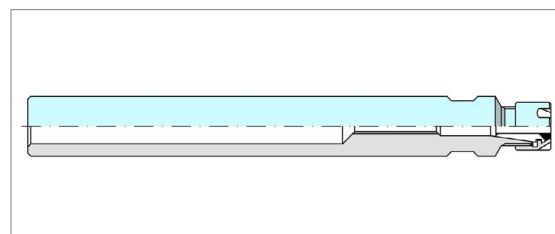
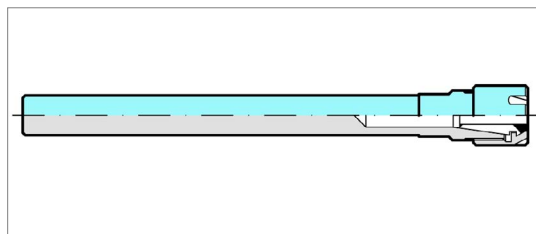
PORTAPINZE MINI MINI COLLET CHUCKS

D6.L45.ERC11M *	
D8.L55.ERC11M *	
D10.L60.ERC11M *	
D10.L100.ERC11M *	
D12.L70.ERC11M	
D12.L100.ERC11M *	
D12.L140.ERC11M *	
D16.L40.ERC11M	
D16.L60.ERC11M	
D16.L100.ERC11M	
D16.L130.ERC11M	
D16.L160.ERC11M	
D16.L200.ERC11M *	
D16.L250.ERC11M *	
D16.L300.ERC11M *	
D20.L100.ERC11M	
D20.L130.ERC11M	
D5/8-L2.50-ERC11M	
D5/8-L4.00-ERC11M	
D5/8-L5.11-ERC11M	
D3/4-L2.50-ERC11M	
D3/4-L3.93-ERC11M	
D3/4-L5.11-ERC11M	
D3/4-L6.30-ERC11M	



CASSETTE CON PORTAPINZE MINI E 13 PINZE ERC11 D.1-7 x 0,5mm MINI COLLET CHUCK KITS WITH 13 COLLETS ERC11 D.1-7 x 0,5mm

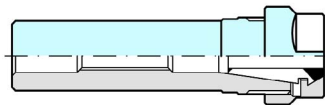
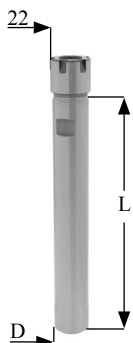
BXD12.L100.11M	
BXD16.L100.11M	
BXD16.L130.11M	
BXD16.L160.11M	



ALTRE
OTHER

PORTAPINZE MINI MINI COLLET CHUCKS

D10.L80.ERC16M	
D12.L80.ERC16M	
D16.L60.ERC16M	
D16.L80.ERC16M	
D16.L100.ERC16M	
D16.L130.ERC16M	
D16.L160.ERC16M	
D16.L200.ERC16M *	
D20.L60.ERC16M	
D20.L100.ERC16M	
D20.L130.ERC16M	
D20.L160.ERC16M	
D20.L200.ERC16M	
D20.L270.ERC16M	
D20.L300.ERC16M *	
D22.L80.ERC16M	
D25.L60.ERC16M	
D25.L100.ERC16M	
D25.L130.ERC16M	
D25.L160.ERC16M	
D32.L90.ERC16M	
D1/2-L4.00-ERC16M	
D5/8-L3.93-ERC16M	
D5/8-L5.11-ERC16M	
D5/8-L7.87-ERC16M	
D3/4-L2.50-ERC16M	
D3/4-L4.00-ERC16M	
D3/4-L5.11-ERC16M	
D3/4-L6.29-ERC16M	
D1"-L2.36-ERC16M	
D1"-L6.29-ERC16M	



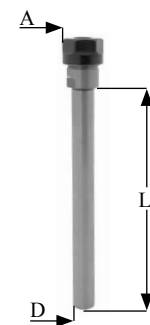
PORTAPINZE COLLET CHUCKS

D16.L35.ERC16	
D16.L60.ERC16	
D16.L160.ERC16	
D20.L50.ERC16	
D20.L60.ERC16	
D20.L100.ERC16	
D20.L160.ERC16	
D1/2-L2.36-ERC16	
D5/8-L3.93-ERC16	
D3/4-L1.80-ERC16	
D3/4-L2.50-ERC16	
D3/4-L4.00-ERC16	
D3/4-L6.00-ERC16	
D1"-L2.36-ERC16	
D1"-L5.11-ERC16	



PROLUNGHE CON GHIERA MINI-ESAGONALE EXTENSIONS WITH MINI EXAGONAL NUTS

D16.L160.ERC11MSE	
D16.L160.ERC16MSE	
D20.L160.ERC16MSE	
D20.L200.ERC16MSE	



* SENZA FORO PER IL PASSAGGIO DEL REFRIGERANTE
* WITHOUT COOLANT BORE

CASSETTE CON PORTAPINZE MINI E 10 PINZE ERC16 D.1÷10 x 1mm COLLET CHUCKS KITS WITH 10 COLLETS ERC16 D.1÷10 x 1mm

BXD20.L100.16M	
BXD20.L130.16M	
BXD20.L160.16M	
BXD20.L200.16M	

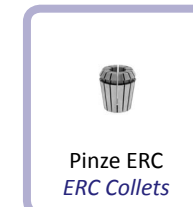


CASSETTA CON PROLUNGA E 13 PINZE ERC11 D.1÷7 x 0,5mm EXTENSION KITS WITH 13 COLLETS ERC11 D.1÷7 x 0,5mm

BXD16.L160.11MSE	
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CASSETTA CON PROLUNGA E 10 PINZE ERC16 D.1÷10 x 1mm EXTENSION KITS WITH 10 COLLETS ERC16 D.1÷10 x 1mm

BXD20.L160.16MSE	
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ALTRE
OTHER

ALTRE
OTHER

PORTAPINZE MNI COLLET CHUCKS

D16.L100.ERC20M	
D16.L130.ERC20M	
D16.L160.ERC20M	

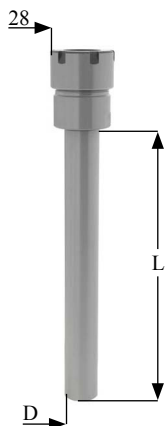
D20.L46.ERC20M	
D20.L60.ERC20M	
D20.L100.ERC20M	
D20.L130.ERC20M	
D20.L160.ERC20M	
D20.L200.ERC20M	

D25.L60.ERC20M	
D25.L130.ERC20M	
D25.L160.ERC20M	
D25.L200.ERC20M	
D25.L240.ERC20M	
D25.L300.ERC20M	

D32.L95.ERC20M	
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D3/4-L2.50-ERC20M	
D3/4-L4.00-ERC20M	

D1"-L3.93-ERC20M	
D1"-L5.50-ERC20M	

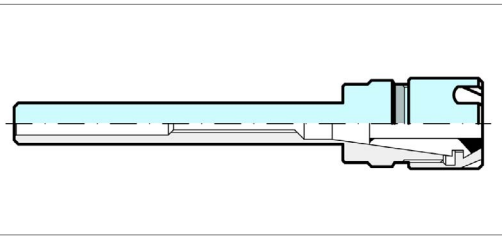


PORTAPINZE COLLET CHUCKS

D20.L50.ERC20	
D20.L60.ERC20	
D20.L100.ERC20	
D20.L130.ERC20	
D20.L160.ERC20	
D20.L200.ERC20	

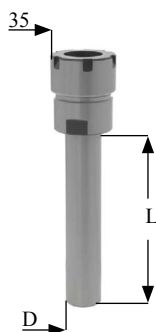
D25.L100.ERC20	
D3/4-L2.50-ERC20	
D3/4-L4.00-ERC20	

D1"-L1.96-ERC20	
D1"-L4.00-ERC20	
D1"-L5.11-ERC20	



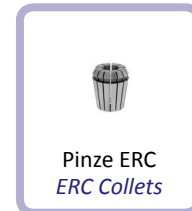
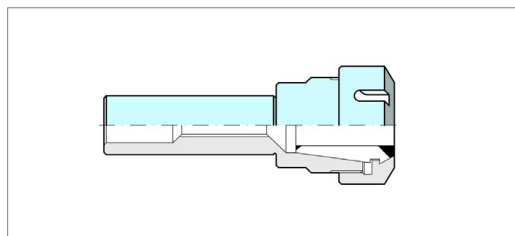
PORTAPINZE MINI MINI COLLET CHUCKS

D20.L60.ERC25M	
D20.L100.ERC25M	
D20.L130.ERC25M	
D20.L160.ERC25M	
D20.L200.ERC25M	
D25.L70.ERC25M	
D25.L100.ERC25M	
D25.L130.ERC25M	
D25.L160.ERC25M	
D25.L260.ERC25M	
D1"-L5.11-ERC25M	
D1"-L6.30-ERC25M	



PORTAPINZE COLLET CHUCKS

D20.L50.ERC25	
D20.L60.ERC25	
D20.L100.ERC25	
D20.L130.ERC25	
D20.L160.ERC25	
D25.L50.ERC25	
D25.L70.ERC25	
D25.L100.ERC25	
D25.L130.ERC25	
D25.L160.ERC25	
D32.L80.ERC25	
D32.L100.ERC25	
D40.L80.ERC25	
D3/4-L2.50-ERC25	
D3/4-L4.00-ERC25	
D1"-L2.00-ERC25	
D1"-L3.93-ERC25	
D1"-L5.11-ERC25	
D1 1/4-L2.00-ERC25	
D1 1/2-L3.14-ERC25	
D1 3/4-L5.11-ERC25	



PORTAPINZE COLLET CHUCKS

D20.L50.ERC32	
D20.L100.ERC32	
D20.L130.ERC32	
D20.L160.ERC32	

D25.L50.ERC32	
D25.L70.ERC32	
D25.L100.ERC32	
D25.L130.ERC32	
D25.L160.ERC32	

D32.L50.ERC32	
D32.L70.ERC32	
D32.L100.ERC32	
D32.L130.ERC32	
D32.L160.ERC32	

D40.L80.ERC32	
D40.L130.ERC32	
D40.L160.ERC32	

D50.L160.ERC32	
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D3/4-L2.12-ERC32	
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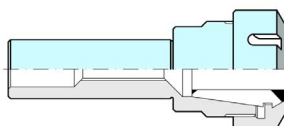
D1"-L2.00-ERC32	
D1"-L3.93-ERC32	
D1"-L5.11-ERC32	
D1"-L6.30-ERC32	

D1 1/4-L2.35-ERC32	
D1 1/2-L3.14-ERC32	

D1 3/4-L3.14-ERC32	
D1 3/4-L5.11-ERC32	

D2"-L3.14-ERC32	
D2"-L6.30-ERC32	

D2 1/2-L6.30-ERC32	
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CASSETTE CON PORTAPINZE E 18 PINZE ERC32 D.3÷20 x 1mm COLLET CHUCKS KITS WITH 10 COLLETS ERC16 D.1÷10 x 1mm

BXD20.L50.32-18	
BXD25.L50.32-18	
BXD32.L70.32-18	



PORTAPINZE COLLET CHUCKS

D25.L60.ERC40	
D25.L100.ERC40	

D32.L70.ERC40	
D32.L100.ERC40	
D32.L130.ERC40	

D40.L80.ERC40	
D40.L130.ERC40	
D40.L160.ERC40	

D50.L120.ERC40	
D50.L160.ERC40	

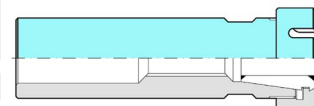
D60.L160.ERC40	
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D1"-L2.36-ERC40	
D1"-L3.93-ERC40	

D1 1/4-L2.00-ERC40	
D1 1/4-L2.36-ERC40	
D1 3/4-L5.11-ERC40	

D2"-L6.30-ERC40	
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D2 1/4-L6.30-ERC40	
D2 1/2-L6.30-ERC40	



PORTAPINZE COLLET CHUCKS

D40.L160.ERC50	
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D50.L170.ERC50	
----------------	--

D60.L170.ERC50	
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PORTAPINZE MINI CON PIANO DI BLOCCAGGIO

MINI COLLET CHUCKS WITH FLAT

	A
D25P.L70.ERC25M	35
D25P.L100.ERC25M	35
D32P.L90.ERC16M	22
D32P.L95.ERC20M	28



PORTAPINZE CON PIANO DI BLOCCAGGIO

COLLET CHUCKS WITH FLAT

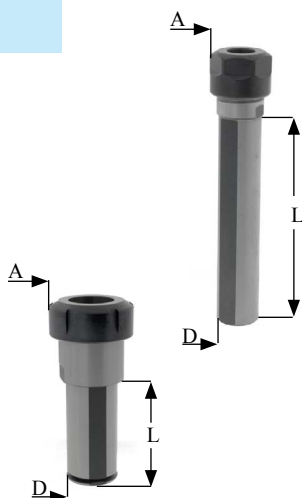
	A
D20P.L100.ERC16	28

D20P.L50.ERC25	42
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D25P.L50.ERC25	42
D25P.L70.ERC25	42
D25P.L50.ERC32	50
D25P.L60.ERC40	63

D32P.L80.ERC25	42
D32P.L70.ERC32	50
D32P.L70.ERC40	63

D40P.L80.ERC32	50
D40P.L80.ERC40	63



PORTAPINZE CON ATTACCO WELDON

WELDON SHANK COLLET CHUCKS

	A
WE20.L50.ERC16	28
WE20.L130.ERC16	28
WE20.L50.ERC25	42

WE25.L56.ERC25	42
WE25.L56.ERC32	50

WE32.L60.ERC32	50
WE32.L60.ERC40	63

WE40.L74.ERC32	50
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PORTAPINZE CON FORI DI LUBRIFICAZIONE

COLLET CHUCKS WITH COOLANT HOLES

NCD32.L70.ERC32



PORTAPINZE BILATERALI

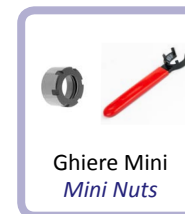
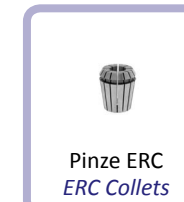
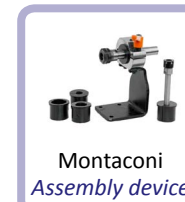
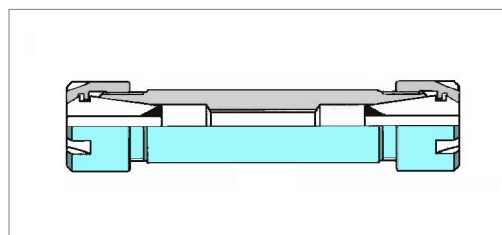
DOUBLE ENDED COLLET CHUCKS

	A
D20.L37.ERC16MP	80
D20.L57.ERC16MP	100
D20.L67.ERC16MP	110

D22.L47.ERC16MP	90
D22.L67.ERC16MP	110

D25.L47.ERC16MP	90
D25.L67.ERC16MP	110

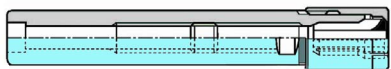
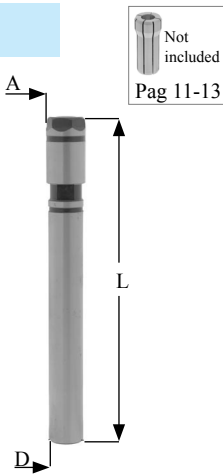
D32.L57.ERC20MP	105
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PROLUNGHE PORTAPINZE EDA

DOUBLE ANGLE COLLET CHUCK EXTENSIONS

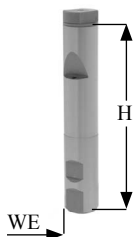
	L
D12,5.L173.EDA300	14,8
D12,5.L208.EDA300	14,8
D20.L183.EDA200	22
D20.L218.EDA200	22
D25.L190.EDA100	27,8
D1/2"-L6.80-EDA300	58
D1/2"-L8.18-EDA300	58
D3/4-L7.20-EDA200	86
D3/4-L8.50-EDA200	86
D1"-L7.50-EDA100	1.09
D1"-L8.85-EDA100	1.09
D1 1/4-L8.00-EDA180	1.45



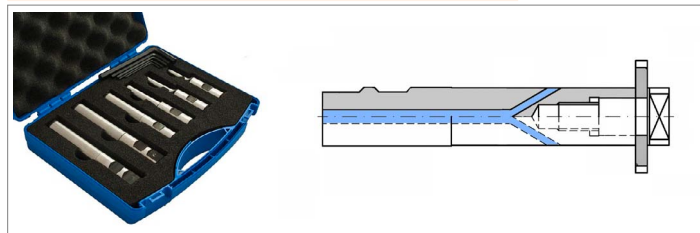
PORTAFRESE CIRCULARI

SAW BLADE HOLDERS

	H
WE20-5LT *	90
WE20-8LT *	105
WE20-10LT *	110
WE25-13LT	136
WE25-16LT	136



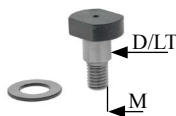
* SENZA FORO PER IL PASSAGGIO DEL REFRIGERANTE
* WITHOUT COOLANT BORE



RICAMBI PER PORTAFRESE CIRCULARI

SPARE SCREW AND WASHER

5LT-M4	
8LT-M6	
8LT1-M6	
10LT-M8	
13LT-M10	
16LT-M12	



PROLUNGHE SUPERMINI

SUPERMINI COLLET EXTENSIONS

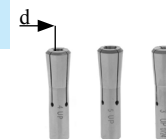
D16.L200.P8	
D20.L150.P8	
D20.L200.P8	



PINZE SUPERMINI P8

SUPERMINI COLLETS P8

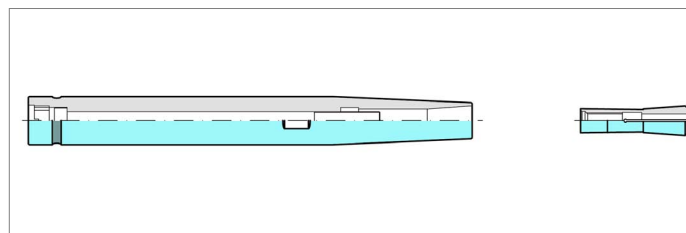
P8-d3	
P8-d4	
P8-d5	
P8-d6	



CASSETTA CON PROLUNGA SUPERMINI d.3-4-5-6

SUPERMINI COLLET CHUCK KITS d.3-4-5-6

BX16-200.P8	
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INSERZIONI PORTAMASCHI SENZA FRIZIONE
TAPPING ADAPTERS WITHOUT CLUTCH

	D	SW	A
B0.25	13	2,1	2,5
B0.28	13	2,1	2,8
B0.35	13	2,7	3,5
B0.45	13	3,4	4,5
B0.60	13	4,9	6
B0.70	13	5,5	7
B0.80	13	6,2	8

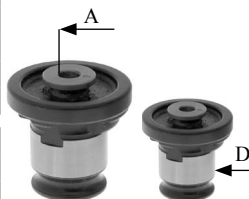


**INSERZIONI PORTAMASCHI CON FRIZIONE REGIS-
TRABILE**
TAPPING ADAPTERS WITH SAFETY CLUTCH

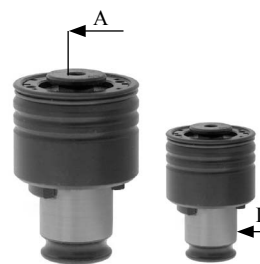
	D	SW	A
BF0.25	13	2,1	2,5
BF0.28	13	2,1	2,8
BF0.35	13	2,7	3,5
BF0.45	13	3,4	4,5
BF0.60	13	4,9	6
BF0.70	13	5,5	7
BF0.80	13	6,2	8



BF1.35	19	2,7	3,5
BF1.45	19	3,4	4,5
BF1.60	19	4,9	6
BF1.70	19	5,5	7
BF1.80	19	6,2	8
BF1.90	19	7	9
BF1.100	19	8	10
BF1.110	19	9	11



BF2.60	31	4,9	6
BF2.70	31	5,5	7
BF2.80	31	6,2	8
BF2.90	31	7	9
BF2.100	31	8	10
BF2.110	31	9	11
BF2.120	31	9	12
BF2.140	31	11	14
BF2.160	31	12	16
BF2.180	31	14,5	18



BF3.110	48	9	11
BF3.120	48	9	12
BF3.140	48	11	14
BF3.160	48	12	16
BF3.180	48	14,5	18
BF3.200	48	16	20
BF3.220	48	18	22
BF3.250	48	20	25
BF3.280	48	22	28

**PORTAMASCHI A CAMBIO RAPIDO
CON COMPENSAZIONE ASSIALE**
*QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION*



HSK



TC



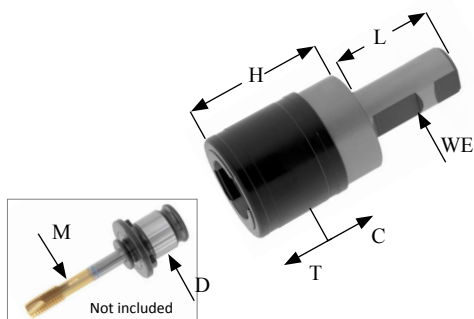
BT



CYL

PORTAMASCHI A CAMBIO RAPIDO
COMPENSAZIONE ASSIALE
TRAZIONE E COMPRESIONE
QUICK CHANGE TAP HOLDERS
TENSION AND COMPRESSION

	M	D	H	T	C
WE20.L50.MCR1TC	M3÷M12	19	41	9	9
WE25.L56.MCR1TC	M3÷M12	19	41	9	9
WE32.L61.MCR1TC	M3÷M12	19	41	9	9
WE40.L72.MCR1TC	M3÷M12	19	41	9	9
WE25.L56.MCR2TC	M6÷M20	31	63	15	15
WE32.L61.MCR2TC	M6÷M20	31	63	15	15
WE40.L72.MCR2TC	M6÷M20	31	63	15	15
WE32.L61.MCR3TC	M14÷M33	48	125	24	24
WE40.L72.MCR3TC	M14÷M33	48	115	24	24



PORTAMASCHI A CAMBIO RAPIDO
CON COMPENSAZIONE ASSIALE
A TRAZIONE E COMPRESIONE
QUICK CHANGE TAP HOLDERS TENSION AND COMPRESSION ERC COLLETS

	M	H	T	C
WE20PM.L56.ERC16TC	M3÷M12	71	9	9
WE25PM.L56.ERC25TC	M5÷M16	101	15	15
WE32PM.L61.ERC25TC	M5÷M16	101	15	15
WE25PM.L56.ERC32TC	M6÷M20	113	15	15
WE32PM.L61.ERC32TC	M6÷M20	113	15	15



INSERZIONI PORTAMASCHI SENZA FRIZIONE
TAPPING ADAPTERS WITHOUT CLUTCH

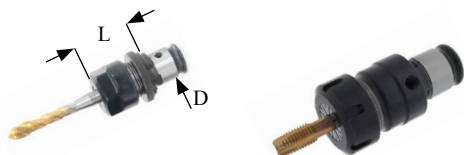


INSERZIONI PORTAMASCHI
CON FRIZIONE REGISTRABILE
TAPPING ADAPTERS WITH SAFETY CLUTCH



INSERZIONI PORTAMASCHI CON PINZE ERC
QUICK CHANGE ADAPTERS WITH ERC COLLETS

	D	H
B1.ERC16	19	30
B2.ERC25	31	38
B2.ERC32	31	50
B3.ERC32	48	42



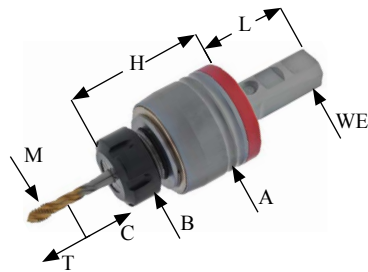
PORTAMASCHI CON COMPENSAZIONE ASSIALE
A TRAZIONE E COMPRESIONE
TENSION AND COMPRESSION ERC COLLETS TAP HOLDERS

	M	H	T	C
D25PM.L50.ERC25TC	M5÷M16	68	12	4
D25PM.L50.ERC32TC	M6÷M20	70	12	4
D32PM.L50.ERC32TC	M6÷M20	70	12	4



MASCHIATORE RIGIDO SINCRONIZZATO SYNCRO-TAPPING CHUCK

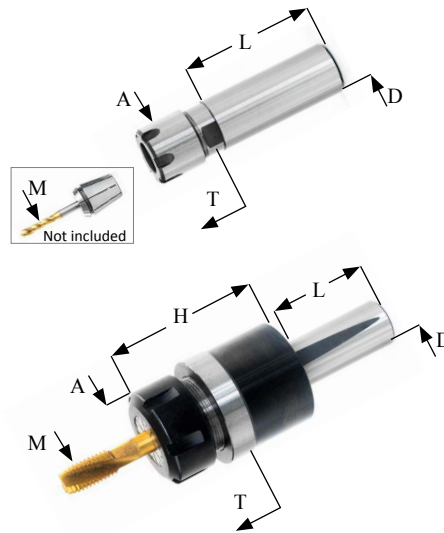
	M	D	L	H	A	B	T	C
WE25STC.ERC25	M6÷M20	25	56	84	60	42	1	0,2



CON PINZE ERC25M A CAMBIO RAPIDO
WITH QUICK CHANGE TAPPING COLLETS ERC25M

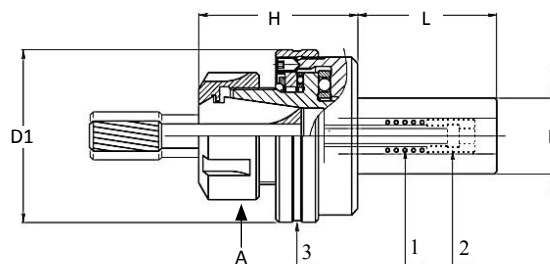
PORTAMASCHI CON COMPENSAZIONE ASSIALE SOLO A TRAZIONE TENSION ONLY TAP HOLDERS - ERC COLLETS

	M	A	T	H
D20PMT.L50.ERC16M	M3÷M12	22	14	30
D20PMT.L70.ERC16M	M3÷M12	22	14	30
D22PMT.L50.ERC16M	M3÷M12	22	14	30
D22PMT.L80.ERC16M	M3÷M12	22	14	30
D25PMT.L50.ERC16M	M3÷M12	22	14	30
D20PMT.L80.ERC16	M3÷M12	28	6	63
D25PMT.L57.ERC16	M3÷M12	28	6	63
D32PMT.L80.ERC16	M3÷M12	28	6	63
D20PMT.L80.ERC20	M3÷M16	34	6	65
D25PMT.L57.ERC32	M6÷M20	50	11	79
D32PMT.L80.ERC32	M6÷M20	50	11	79



PORTA ALESATORI OSCILLANTI CON PASSAGGIO DEL REFRIGERANTE *FLOATING REAMER HOLDERS WITH COOLANT FLOW*

	Alesatori Reamers	D	Pinze Collets	Oscillazione Float	A	H	D1
D16.L46.RM11	D1÷D7	16	ERC11	± 1mm	22	40	42
D20.L46.RM11	D1÷D7	20	ERC11	± 1mm	22	40	42
D16.L46.RM16	D1÷D10	16	ERC16	± 1mm	28	44	42
D20.L46.RM16	D1÷D10	20	ERC16	± 1mm	28	44	42
D25.L46.RM16	D1÷D10	25	ERC16	± 1mm	28	44	42
D16.L46.RM20	D1÷D13	16	ERC20	± 1mm	34	50	50
D20.L46.RM20	D1÷D13	20	ERC20	± 1mm	34	50	50
D25.L46.RM20	D1÷D13	25	ERC20	± 1mm	34	50	50
D20.L46.RM25	D1÷D16	20	ERC25	± 1mm	42	53	57
D25.L46.RM25	D1÷D16	25	ERC25	± 1mm	42	53	57
D25.L50.RM32	D2÷D20	25	ERC32	± 1,5mm	50	58	69
D32.L50.RM32	D2÷D20	32	ERC32	± 1,5mm	50	58	69
D25.L50.RM40	D3÷D30	25	ERC40	± 1,5mm	63	64	79
D32.L50.RM40	D3÷D30	32	ERC40	± 1,5mm	63	64	79
D5/8.L46.RM16	D1÷D10	15,87	ERC16	± 1mm	28	44	42
D3/4.L46.RM16	D1÷D10	19,05	ERC16	± 1mm	28	44	42
D1".L46.RM16	D1÷D10	25,4	ERC16	± 1mm	28	44	42
D3/4.L46.RM20	D1÷D13	19,05	ERC20	± 1mm	34	50	50
D1".L46.RM20	D1÷D13	25,4	ERC20	± 1mm	34	50	50
D1".L46.RM25	D1÷D16	25,4	ERC25	± 1mm	42	53	57
D1".L50.RM32	D2÷D20	25,4	ERC32	± 1,5mm	50	58	69



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.

ALLENANDO DI 0,1/0,2mm LA GHIERA 3 SI PERMETTE ALL'ALESATORE DI AVERE UN MOVIMENTO PENDOLARE.

THE FREE MOOVING BALL BEARING DRIVE, PERMIT TO THE REAMER TO FOLLOW THE DRILLED HOLE OF THE WORKPIECE.

THE PRESSURE OF THE SPRING 1 KEEP THE REAMER CENTERED, EVEN IN THE HORIZONTAL POSITION.

THE SCREW 2 ALLOW THE ADJUSTMENT OF THE FLOATING LEVEL

UNSCREWING THE NUT 3 FOR 0,1/0,2mm, THE REAMER HAVE A PENDULUM FLOAT.

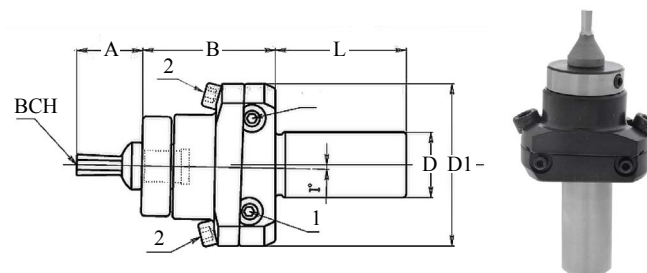
BROCCIATORE GIREVOLE ROTATING BROACH TOOLHOLDER

	A	D1	H
D20.L50.BCH12	25	44	46
D25.L50.BCH12	25	44	46
D25.L50.BCH16	40	58	76
D32.L50.BCH16	40	58	76
D40.L80.BCH16	40	58	76



BROCCIATORE REGISTRABILE ADJUSTABLE BROACH TOOLHOLDER

	A	D1	B
D20.L50.BCH12R	25	62	52
D25.L50.BCH12R	25	62	52
D32.L50.BCH12R	25	62	52



CENTRATURA DELLA BROCCIA:

LA REGOLAZIONE DELLE VITI 1 e 2 CONSENTE LA CENTRATURA DELLA BROCCIA RISPETTO ALL'ASSE DI ROTAZIONE DEL PEZZO IN LAVORAZIONE

BROACH CENTERING:

BY ADJUSTING THE SCREWS 1 and 2 IT IS POSSIBLE TO CENTER THE BROACH CUTTER WITH THE AXIS OF THE WORKING PIECE

NON UTILIZZARE BROCCHE CON LUNGHEZZA "A" SUPERIORE A QUELLA INDICATA.

LA FORATURA DI PREPARAZIONE DEVE ESSERE MAGGIORE DAL 1% AL 3% RISPETTO AI PIANI DEL PROFILO DA GENERARE.

PER LA BROCCIATURA DI FORI CECHI,

IL FORO DI PREPARAZIONE DEVE ESSERE PIU' LUNGO DI ALMENO IL 50% DELLA LUNGHEZZA DELLA BROCCIA.

I PARAMETRI DI TAGLIO SUGGERITI SONO:

VELOCITA' DI ROTAZIONE 1000/2000g/min

AVANZAMENTO COMPRESO TRA 0,01 E FINO A 0,05 mm/giro

PER IL RITORNO CONSIGLIAMO DA 0,10 A 0,5 mm/giro

DON'T USE BROACHING CUTTERS LONGER THAN SIZE "A" OF THE LIST

THE WORKING PIECE MUST BE DRILLED MINIMUM 1% UP TO 3% LARGER THAN THE BROACH FLATS.

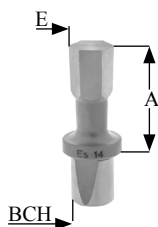
FOR BLIND HOLES, THE DRILL DEPTH MUST BE AT LEAST 1,5 TIME LONGER THAN THE BROACHED HOLE.

THE SUGGESTED SPEED FOR BROACHING IS BETWEEN 1000 AND 2000 RPM.

THE BROACH FEED BETWEEN 0,01 AND 0,05 mm/revolution

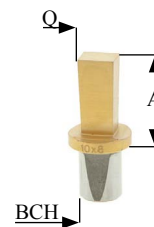
BROCCHE ESAGONALI
EXAGONAL BROACHING CUTTER

	A
BCH12.E3	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
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



BROCCHE QUADRE
SQUARE BROACHING CUTTER

	A
BCH12.Q4	25
BCH12.Q5	25
BCH12.Q6	25
BCH12.Q7	25
BCH12.Q8	25
BCH12.Q9	25
BCH12.Q10	25
BCH16.Q4	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



PORTAPINZE A CENTRATURA REGOLABILE

ADJUSTABLE COLLET CHUCKS

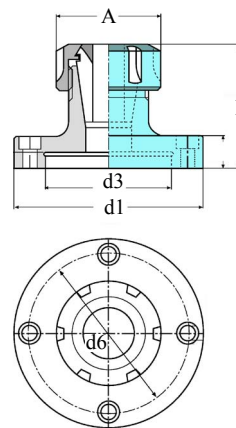
	A	H	Adjust
D16R.L70.ERC16	28	56	± 0,5
D20R.L70.ERC16	28	56	± 0,5
D20R.L70.ERC20	34	56	± 0,5
D25R.L56.ERC25	42	61	± 0,5
D25R.L56.ERC32	50	62	± 0,5
D25R.L70.ERC25	42	61	± 0,5
D25R.L70.ERC32	50	62	± 0,5
D32R.L70.ERC32	50	62	± 0,5
D32R.L70.ERC40	63	66	± 0,5
D40R.L70.ERC40	63	66	± 0,5



MANDRINI PORTAPINZE A FLANGIA

FLANGE COLLET CHUCKS

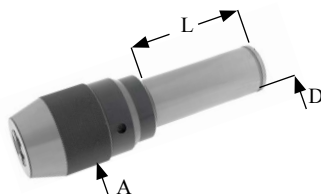
	d6	A	d1	d3	L
FLB70.ERC25	54-M6	42	70	35,2	72
FLB50.ERC32	40-M6	50	50	30	58
FLB90.ERC32	70-M8	50	90	41,2	72
FLB110.ERC40	86-M8	63	110	65,2	87
FLB110.ERC50	86-M8	78	110	65,2	106



MANDRINI AUTOSERRANTI INTEGRALI CON CHIAVE

INTEGRATED DRILL CHUCKS WITH HOOK WRENCH

	A	Range
D20.L60.DCK13	€ 130,00	50 1÷13
D20.L60.DCK16	€ 140,00	50 3÷16
D32.L80.DCK13	€ 130,00	50 1÷13
D32.L80.DCK16	€ 140,00	50 3÷16

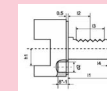


ARRESTO BARRA COMPENSATO REGOLABILE

SPRING LOADED ADJUSTABLE STOP

	A	L
D25.SAS 56	€ 160,00	56 50
D32.SAS 56	€ 160,00	56 50





**PORTAUTENSILI CON STELO
LAVORABILE**
MACHINABLE TOOLHOLDER BLANKS



**BUSSOLE DI RIDUZIONE PER
BARENI**
TOOLHOLDER BUSHINGS



**PORTAPINZE FORMA - E4
COLLET CHUCKS FORM - E4**



**PORTAUTENSILI RADIALI
RADIAL TOOLHOLDERS**



**RIDUZIONI A CONO MORSE
MORSE TAPER DRILL SOCKETS**



**PORTAMASCHI CON COMPENSAZIONE
ASSIALE A TRAZIONE E COMPRESIONE**
TENSION AND COMPRESSION TAP HOLDERS



**PORTAUTENSILI ASSIALI
AXIAL TOOLHOLDERS**



**PORTAUTENSILI A CONO MORSE
FORMA - F1**
MORSE TAPER TOOLHOLDERS FORM - F1



**PORTAUTENSILI MULTIPLO
COMBINED TOOLHOLDERS**



**TAMPONI DI PROTEZIONE
IN ACCIAIO**
STEEL BLANKING PLUGS



**PORTAUTENSILI PER PUNTE
AD INSERTI**
*TOOLHOLDERS FOR INDEXABLE
INSERT DRILLS*



**PORTA ALESATORI OSCILANTI
CON PASSAGGIO DEL REFRIGERANTE**
*FLOATING REAMER HOLDERS WITH
COOLANT FLOW*

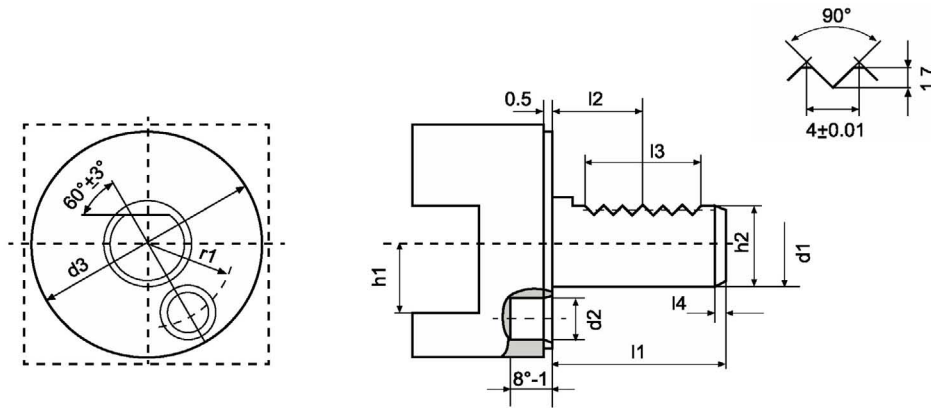
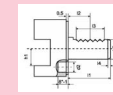


**PORTABARENI
BORING-BARS HOLDERS**



**UTENSILE BROCCIATORE
BROACHING TOOLHOLDER**

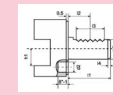




DIMENSIONI ATTACCHI VDI-DIN69880
VDI-DIN69880 SHANK DETAILS

d1 h6	l1 ±0,3	d2	d3	h1 max	h2 ±0,1	l2 ±0,05	l3 min	l4 +1	r1 ±0,02
30	55	14 - H8	68	20	27	29,7	40	2	25
40	63	14 - H8	83	25	36	29,7	40	3	32
50	78	16 - H8	98	32	45	35,7	48	3	37
60	94	16-H8	123	32	55	45,7	58	4	48



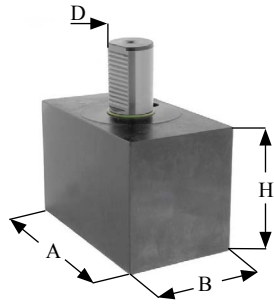


PORTAUTENSILI CON STELO LAVORABILE

FORMA A1

MACHINABLE TOOLHOLDER BLANKS - FORM A1

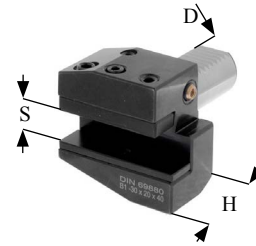
	D	A	B	H
VDI.A1-030	30	130	76	85
VDI.A1-040	40	151	96	100
VDI.A1-050	50	160	120	125
VDI.A1-060	60	165	125	160



PORTAUTENSILI RADIALI - FORMA B1 - DESTRO

RADIAL TOOLHOLDERS - FORM B1 - RIGHT

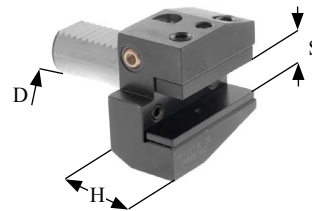
	D	H	S
VDI.B1-300	30	40	20/16
VDI.B1-400	40	44	25/20
VDI.B1-500	50	55	32/25
VDI.B1-600	60	60	32/25



PORTAUTENSILI RADIALI - FORMA B2 - SINISTRO

RADIAL TOOLHOLDERS - FORM B2 - LEFT

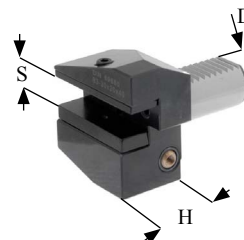
	D	H	S
VDI.B2-300	30	40	20/16
VDI.B2-400	40	44	25/20
VDI.B2-500	50	55	32/25
VDI.B2-600	60	60	32/25



PORTAUTENSILI RADIALI - FORMA B3 - DESTRO

RADIAL TOOLHOLDERS - FORM B3 - RIGHT

	D	H	S
VDI.B3-300	30	40	20/16
VDI.B3-400	40	44	25/20
VDI.B3-500	50	55	32/25
VDI.B3-600	60	60	32/25

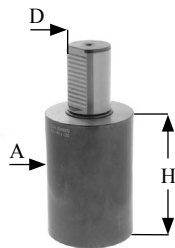


PORTAUTENSILI CON STELO LAVORABILE

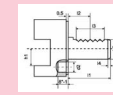
FORMA A2

MACHINABLE TOOLHOLDER BLANKS - FORM A2

	D	A	H
VDI.A2-030	30	68	100
VDI.A2-040	40	83	120
VDI.A2-050	50	98	135
VDI.A2-060	60	123	150



VDI.B



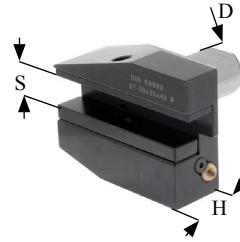
PORTAUTENSILI RADIALI - FORMA B4 - SINISTRO
RADIAL TOOLHOLDERS - FORM B4 - LEFT

	D	H	S
VDI.B4-300	30	40	20/16
VDI.B4-400	40	44	25/20
VDI.B4-500	50	55	32/25
VDI.B4-600	60	60	32/25



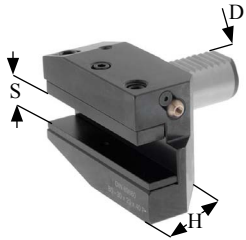
PORTAUTENSILI RADIALI - FORMA B7 - DESTRO
RADIAL TOOLHOLDERS - FORM B7 - RIGHT

	D	H	S
VDI.B7-300	30	40	20/16
VDI.B7-400	40	44	25/20
VDI.B7-500	50	55	32/25
VDI.B7-600	60	60	32/25



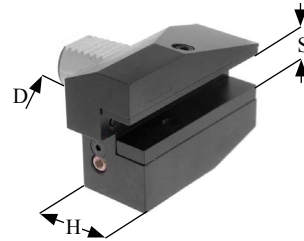
PORTAUTENSILI RADIALI - FORMA B5 - DESTRO
RADIAL TOOLHOLDERS - FORM B5 - RIGHT

	D	H	S
VDI.B5-300	30	40	20/16
VDI.B5-400	40	44	25/20
VDI.B5-500	50	55	32/25
VDI.B5-600	60	60	32/25



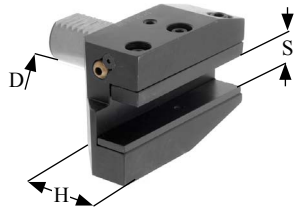
PORTAUTENSILI RADIALI - FORMA B8 - SINISTRO
RADIAL TOOLHOLDERS - FORM B8 - LEFT

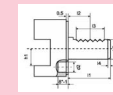
	D	H	S
VDI.B8-300	30	40	20/16
VDI.B8-400	40	44	25/20
VDI.B8-500	50	55	32/25
VDI.B8-600	60	60	32/25



PORTAUTENSILI RADIALI - FORMA B6 - SINISTRO
RADIAL TOOLHOLDERS - FORM B6 - LEFT

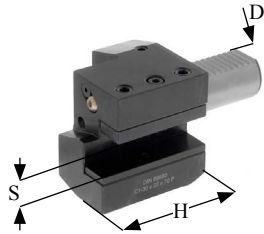
	D	H	S
VDI.B6-300	30	40	20/16
VDI.B6-400	40	44	25/20
VDI.B6-500	50	55	32/25
VDI.B6-600	60	60	32/25





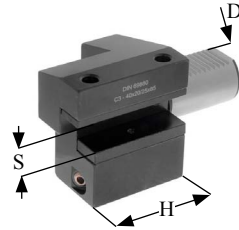
PORTAUTENSILI ASSIALI - FORMA C1 - DESTRO AXIAL TOOLHOLDERS - FORM C1 - RIGHT

	D	H	S
VDI.C1-300	30	70	20/16
VDI.C1-400	40	85	25/20
VDI.C1-500	50	100	32/25
VDI.C1-600	60	125	32/25



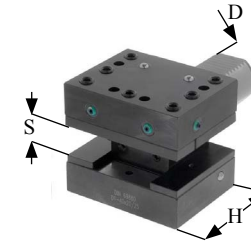
PORTAUTENSILI ASSIALI - FORMA C3 - DESTRO AXIAL TOOLHOLDERS - FORM C3 - RIGHT

	D	H	S
VDI.C3-300	30	40	20/16
VDI.C3-400	40	44	25/20
VDI.C3-500	50	55	32/25
VDI.C3-600	60	60	32/25



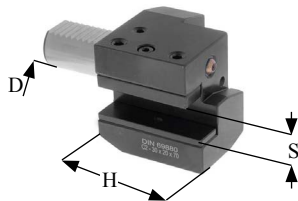
PORTAUTENSILI MULTIPLO - FORMA D1 - DESTRO COMBINED TOOLHOLDERS - FORM D1 - RIGHT

	D	H	S
VDI.D1-300	30	60	20/16
VDI.D1-400	40	72	25/20
VDI.D1-500	50	85	32/25



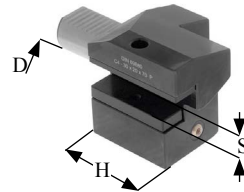
PORTAUTENSILI ASSIALI - FORMA C2 - SINISTRO AXIAL TOOLHOLDERS - FORM C2 - LEFT

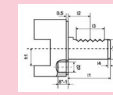
	D	H	S
VDI.C2-300	30	40	20/16
VDI.C2-400	40	44	25/20
VDI.C2-500	50	55	32/25
VDI.C2-600	60	60	32/25



PORTAUTENSILI ASSIALI - FORMA C4 - SINISTRO AXIAL TOOLHOLDERS - FORM C4 - LEFT

	D	H	S
VDI.C4-300	30	40	20/16
VDI.C4-400	40	44	25/20
VDI.C4-500	50	55	32/25
VDI.C4-600	60	60	32/25





PORTAUTENSILI PER PUNTE AD INSERTI - FORMA E1
TOOLHOLDERS FOR INDEXABLE INSERT DRILLS
FORM E1

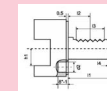
	D	A	H
VDI.E1-30.16	30	16	67
VDI.E1-30.20	30	20	67
VDI.E1-30.25	30	25	71
VDI.E1-30.32	30	32	75

	D	A	H
VDI.E1-40.16	40	16	67
VDI.E1-40.20	40	20	67
VDI.E1-40.25	40	25	71
VDI.E1-40.32	40	32	75
VDI.E1-40.40	40	40	90

	D	A	H
VDI.E1-50.20	50	20	67
VDI.E1-50.25	50	25	80
VDI.E1-50.32	50	32	80
VDI.E1-50.40	50	40	90
VDI.E1-50.50	50	50	100

	D	A	H
VDI.E1-60.20	60	20	80
VDI.E1-60.25	60	25	80
VDI.E1-60.32	60	32	80
VDI.E1-60.40	60	40	90
VDI.E1-60.50	60	50	100





PORTABARENI - FORMA E2
BORING-BARS HOLDERS - FORM E1

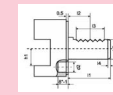
	D	A	H
VDI.E2-30.8	30	8	60
VDI.E2-30.10	30	10	60
VDI.E2-30.12	30	12	60
VDI.E2-30.16	30	16	60
VDI.E2-30.20	30	20	60
VDI.E2-30.25	30	25	60
VDI.E2-30.30	30	30	75
VDI.E2-30.32	30	32	75

	D	A	H
VDI.E2-40.8	40	8	75
VDI.E2-40.10	40	10	75
VDI.E2-40.12	40	12	75
VDI.E2-40.16	40	16	75
VDI.E2-40.20	40	20	75
VDI.E2-40.25	40	25	75
VDI.E2-40.30	40	30	75
VDI.E2-40.32	40	32	75
VDI.E2-40.40	40	40	90

	D	A	H
VDI.E2-50.12	50	12	90
VDI.E2-50.16	50	16	90
VDI.E2-50.20	50	20	90
VDI.E2-50.25	50	25	90
VDI.E2-50.30	50	30	90
VDI.E2-50.32	50	32	90
VDI.E2-50.40	50	40	90
VDI.E2-50.50	50	50	100

	D	A	H
VDI.E2-60.16	60	16	90
VDI.E2-60.20	60	20	90
VDI.E2-60.25	60	25	90
VDI.E2-60.32	60	32	90
VDI.E2-60.40	60	40	90
VDI.E2-60.50	60	50	100





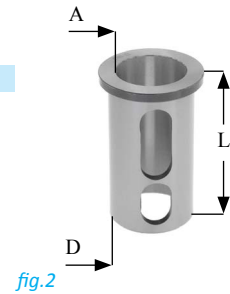
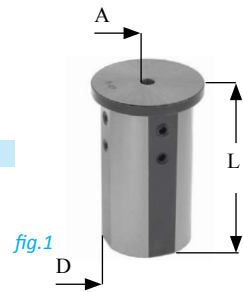
BUSSOLE DI RIDUZIONE PER BARENI TOOLHOLDER BUSHINGS

D20 X L55		A
E2-1.20-6		6
E2-1.20-8		8
E2-1.20-10		10
E2-1.20-12		12
E2-1.20-14		14
E2-1.20-16		16

D25 X L65		A
E2-1.25-6		6
E2-1.25-8		8
E2-1.25-10		10
E2-1.25-12		12
E2-1.25-14		14
E2-1.25-16		16
E2-1.25-18		18
E2-1.25-20		20

D32 X L70		A
E2-1.32-6		6
E2-1.32-8		8
E2-1.32-10		10
E2-1.32-12		12
E2-1.32-14		14
E2-1.32-16		16
E2-1.32-18		18
E2-1.32-20		20

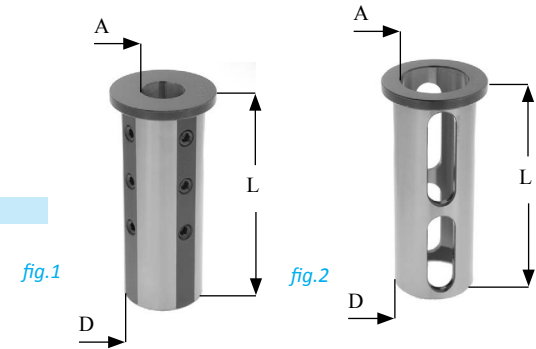
D40 X L80		A
E2-1.40-6		6
E2-1.40-8		8
E2-1.40-10		10
E2-1.40-12		12
E2-1.40-14		14
E2-1.40-16		16
E2-1.40-20		20
E2-1.40-25		25
E2-1.40-32		32



BUSSOLE DI RIDUZIONE PER BARENI TOOLHOLDER BUSHINGS

D32 X L90		A
BSH32-6		6
BSH32-8		8
BSH32-10		10
BSH32-12		12
BSH32-16		16
BSH32-20		20
BSH32-25		25

D40 X L110		A
BSH40-6		6
BSH40-8		8
BSH40-10		10
BSH40-12		12
BSH40-16		16
BSH40-20		20
BSH40-25		25
BSH40-32		32



BUSSOLE DI RIDUZIONE PER BARENI TOOLHOLDER BUSHINGS

D32 X L70		A
E2SB32-8		8
E2SB32-10		10
E2SB32-12		12
E2SB32-16		16
E2SB32-20		20
E2SB32-25		25

D40 X L80		A
E2SB40-8		8
E2SB40-10		10
E2SB40-12		12
E2SB40-16		16
E2SB40-20		20
E2SB40-25		25
E2SB40-32		32



SERIE DI RIDUZIONI REDUCTION BUSHES SET REDUCTION BUSHES SET

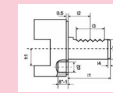
E2-1.20 / D.6-8-10-12-16	
E2-1.20 / 5 KIT	
E2-1.25 / D.6-8-10-12-16-20	
E2-1.25 / 6 KIT	
E2-1.32 / D.6-8-10-12-16-20-25	
E2-1.32 / 7 KIT	
E2-1.40 / D.6-8-10-12-16-20-25-32	
E2-1.40 / 8 KIT	



RIDUZIONI A CONO MORSE MORSE TAPER DRILL SOCKETS

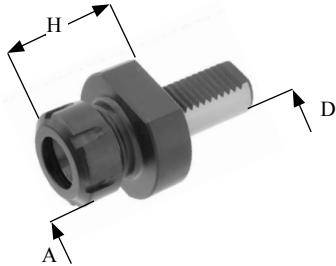
D32.L90.CM1	
D32.L90.CM2	
D32.L100.CM3	
D40.L110.CM2	
D40.L110.CM3	
D40.L135.CM4	





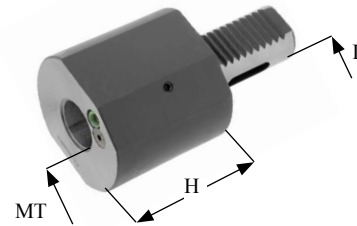
PORTAPINZE - FORMA E4 COLLET CHUCKS - FORM E4

	D	A	H
VDI.E4-30.ERC25	30	42	57
VDI.E4-30.ERC32	30	50	75
VDI.E4-30.ERC40	30	63	70
VDI.E4-40.ERC25	40	42	69
VDI.E4-40.ERC32	40	50	62
VDI.E4-40.ERC40	40	63	75
VDI.E4-50.ERC32	50	50	84
VDI.E4-50.ERC40	50	63	75



PORTAUTENSILI A CONO MORSE - FORMA F1 MORSE TAPER TOOLHOLDERS - FORM F1

	D	H
VDI.F30.MT1	€ 108,00	30 27
VDI.F30.MT2	€ 108,00	30 36
VDI.F30.MT3	€ 108,00	30 66
VDI.F40.MT2	€ 119,00	40 36
VDI.F40.MT3	€ 119,00	40 36
VDI.F40.MT4	€ 119,00	40 80
VDI.F50.MT2	€ 135,00	50 36
VDI.F50.MT3	€ 135,00	50 45
VDI.F50.MT4	€ 135,00	50 55



Pinze ERC
ERC Collets



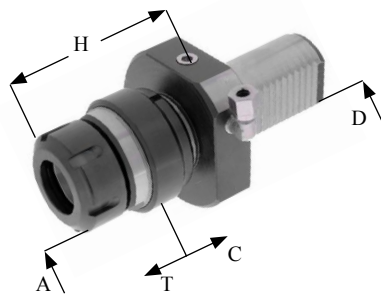
Ghiere Standard
Standard Nuts



Pinze Portamaschi
Tap Collets

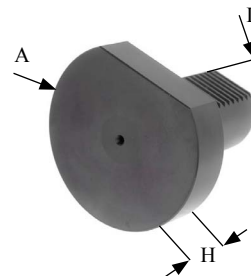
PORTAMASCHI CON COMPENSAZIONE ASSIALE A TRAZIONE E COMPRESIONE TENSION AND COMPRESSION TAP HOLDERS

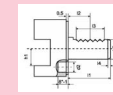
	M	D	A	H	T	C
VDI30.ERC32TC	M6÷M20	30	50	86	12	4
VDI40.ERC32TC	M6÷M20	40	50	86	12	4



TAMPONI DI PROTEZIONE IN ACCIAIO STEEL BLANKING PLUGS

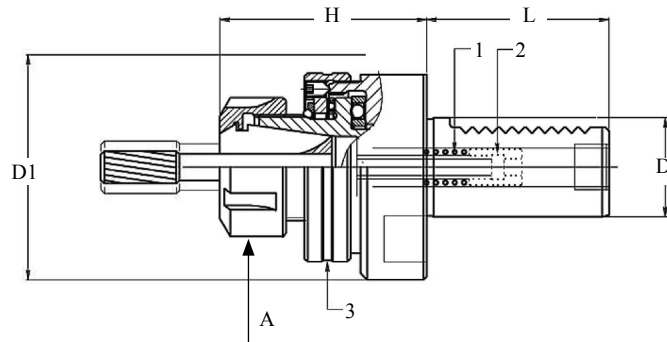
	D	A	H
Z2-30.AC	30	68	16
Z2-40.AC	40	83	20
Z2-50.AC	50	98	20





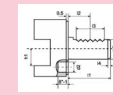
**PORTA ALESATORI OSCILLANTI
CON PASSAGGIO DEL REFRIGERANTE**
FLOATING REAMER HOLDERS WITH COOLANT FLOW

	Pinza Collet	D	A	H	Oscillazione Float
VDI30.RM32	ERC32/2÷20	30	50	72	± 1,5
VDI40.RM32	ERC32/2÷20	40	63	74	± 1,5



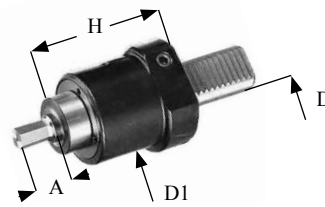
L'ALESATORE OSCILLA SU UN CUSCINETTO A SFERE PER COMPENSARE GLI ERRORI DI ALLINEAMENTO TRA IL MANDRINO DELLA MACCHINA E IL PEZZO IN LAVORAZIONE.
LA SPINTA DELLA MOLLA 1 MANTIENE L'UTENSILE CENTRATO ANCHE IN POSIZIONE ORIZZONTALE.
LA VITE 2 REGOLA LA PRESSIONE DELLA MOLLA PER IL MOVIMENTO RADIALE.
ALLENANDO DI 0,1/0,2mm LA GHIERA 3 SI PERMETTE ALL'ALESATORE DI AVERE UN MOVIMENTO PENDOLARE.

*THE FREE MOVING BALL BEARING DRIVE, PERMIT TO THE REAMER TO FOLLOW THE DRILLED HOLE OF THE WORKPIECE.
THE PRESSURE OF THE SPRING 1 KEEP THE REAMER CENTERED, EVEN IN THE HORIZONTAL POSITION.
THE SCREW 2 ALLOW THE ADJUSTMENT OF THE FLOATING LEVEL
UNSCREWING THE NUT 3 FOR 0,1/0,2mm, THE REAMER HAVE A PENDULUM FLOAT.*



UTENSILE BROCCIATORE
BROACHING TOOLHOLDER

	D	A	D1	H
VDI30.BCH12	30	25	58	83
VDI30.BCH16	30	40	58	83
VDI40.BCH12	40	25	58	83
VDI40.BCH16	40	40	58	83



NON UTILIZZARE BROCCHE CON LUNGHEZZA "A" SUPERIORE A QUELLA INDICATA.

LA FORATURA DI PREPARAZIONE DEVE ESSERE MAGGIORE DAL 1% AL 3% RISPETTO AI PIANI DEL PROFILO DA GENERARE.

PER LA BROCCIATURA DI FORI CECHI,

IL FORO DI PREPARAZIONE DEVE ESSERE PIU' LUNGO DI ALMENO IL 50% DELLA LUNGHEZZA DELLA BROCCIA.

DI PARAMETRI DI TAGLIO SUGGERITI SONO:

VELOCITA' DI ROTAZIONE 1000/2000g/min

AVANZAMENTO COMPRESO TRA 0,01 E FINO A 0,05 mm/giro

PER IL RITORNO CONSIGLIAMO DA 0,10 A 0,5 mm/giro

DON'T USE BROACHING CUTTERS LONGER THAN SIZE "A" OF THE LIST.












THE WORKING PIECE MUST BE DRILLED MINIMUM 1% UP TO 3% LARGER THAN THE BROACH FLATS.

FOR BLIND HOLES, THE DRILL DEPTH MUST BE AT LEAST 1,5 TIME LONGER THAN THE BROACHED HOLE.

THE SUGGESTED SPEED FOR BROACHING IS BETWEEN 1000 AND 2000 RPM.

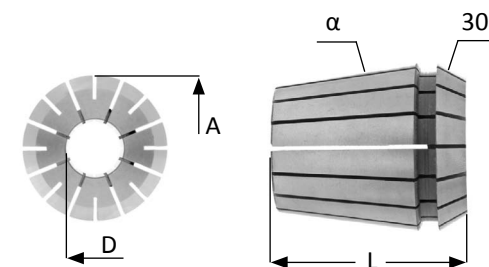
THE BROACH FEED BETWEEN 0,01 AND 0,05 mm/revolution



										
STANDARD	HP	INCH	RF	SSC	IK	JET	M	MRF	PA	FT
ERC 8	ERC 8									
ERC 11	ERC 11	ERC 11			ERC 11					
ERC 16	ERC 16	ERC 16	ERC 16		ERC 16	ERC 16	ERC 16	ERC 16	ERC 16	ERC 16
ERC 20	ERC 20	ERC 20	ERC 20		ERC 20	ERC 20	ERC 20	ERC 20	ERC 20	ERC 20
ERC 25	ERC 25	ERC 25	ERC 25	ERC 25	ERC 25	ERC 25	ERC 25	ERC 25	ERC 25	ERC 25
ERC 32	ERC 32	ERC 32	ERC 32	ERC 32	ERC 32	ERC 32	ERC 32	ERC 32	ERC 32	ERC 32
ERC 40	ERC 40	ERC 40	ERC 40	ERC 40		ERC 40	ERC 40	ERC 40	ERC 40	ERC 40
ERC 50			ERC 50				ERC 50			
ERC 60										



DIMENSIONI SIZES					
TIPO TYPE	D mm min-max	Capacità serraggio Clamping Range	A	α AT3	L
ERC8 - 4004E	1÷5	0,5 mm	8,5	8°	13,5
ERC11 - 4008E	1÷7	0,5 mm	11,5	8°	18
ERC16 - 426E	1÷10	0,5÷1mm	17	8°	27,5
ERC20 - 428E	1÷14	0,5÷1mm	21	8°	31,5
ERC25 - 430E	1÷20	0,5÷1mm	26	8°	34
ERC32 - 470E	2÷22	0,5÷1mm	33	8°	40
ERC40 - 472E	3÷30	1mm	41	8°	46
ERC50 - 477E	6÷34	2mm	52	8°	60
ERC60 - 494E	10÷40	2mm	61	10°	60



LE PINZE ERC

- SONO COSTRUITE IN ACCIAIO PER MOLLE.
- SONO TRATTATE TERMICAMENTE PER CONFERIRE UNA DUREZZA DI 44/46 HRC.

- DOPO LA RETTIFICA, VENGONO SOTTOPOSTE AD UN TRATTAMENTO DI SUPERFINITURA CON LO SCOPO DI ARROTONDARE TUTTI GLI SPIGOLI E GARANTIRE UNA RUGOSITA' INFERIORE A Rz 2,5.

LA CAPACITA' DI SERRAGGIO (AL DI SOTTO DEL DIAMETRO NOMINALE) SONO:

- PER LE PINZE ERC8-11 - 0,5 mm
- PER LE PINZE ERC16-20-25-32-40 - 1,0 mm (0,5 PER DIAMETRO 1 - 1,5 - 2 - 2,5)
- PER LE PINZE ERC50-60 - 2,0 mm

THE ERC COLLETS

- ARE MANUFACTURED WITH HIGH QUALITY SPRING STEEL.
- ARE TEMPERED FOR A HARDNESS OF 44/46 Rc
- AFTER GRINDING ARE SUPERFINISHED BY A ISF-PROCESS TO GRANT A ROUGHNESS WITHIN Rz 2,5 AND MAKE ALL THE CORNERS OF THE SLOTS ROUNDED.

THE COLLET COLLAPSE (FROM NOMINAL SIZE) IS

- FOR COLLETS ERC8-11 - 0,5 mm
- FOR COLLETS ERC16-20-25-32-40 - 1,0 mm (0,5mm FOR SIZES 1 - 1,5 - 2 - 2,5)
- FOR COLLETS ERC50-60 - 2,0 mm





PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERC8.D1	
ERC8.D1,5	
ERC8.D2	
ERC8.D2,5	
ERC8.D3	
ERC8.D3,5	
ERC8.D4	
ERC8.D4,5	
ERC8.D5	



\nearrow 0,010 ÷ 0,015

PINZE DI ALTA PRECISIONE *
*HIGH PRECISION COLLETS **

ERC8HP.D1	
ERC8HP.D1,5	
ERC8HP.D2	
ERC8HP.D2,5	
ERC8HP.D3	
ERC8HP.D3,5	
ERC8HP.D4	
ERC8HP.D4,5	
ERC8HP.D5	



\nearrow 0,005

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.1÷5 x 0,5mm

TY.ERC8-9



SERIE DI PINZE - CASSETTA DI LEGNO
COLLET SETS - WOODEN BOX

D.1÷5 x 0,5mm

BX.ERC8HP-9



SERIE DI PINZE - CASSETTA DI LEGNO
COLLET SETS - WOODEN BOX

D.1÷5 x 0,5mm

BX.ERC8-9



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI
UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* *NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK
TOLLERANCE MAX h10. NO CLAMPING RANGE*



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE CON PRECISIONE STANDARD STANDARD PRECISION COLLETS

ERC11.D1	
ERC11.D1,5	
ERC11.D2	
ERC11.D2,5	
ERC11.D3	
ERC11.D3,5	
ERC11.D4	
ERC11.D4,5	
ERC11.D5	
ERC11.D5,5	
ERC11.D6	
ERC11.D6,5	
ERC11.D7	



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO COLLET SETS - WOODEN TRAY

D.1÷7 x 0,5mm

TY.ERC11-13



SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D.1÷7 x 0,5mm

BX.ERC11-13



PINZE DI ALTA PRECISIONE * HIGH PRECISION COLLETS *

ERC11HP.D1	
ERC11HP.D1,5	
ERC11HP.D2	
ERC11HP.D2,5	
ERC11HP.D3	
ERC11HP.D3,5	
ERC11HP.D4	
ERC11HP.D4,5	
ERC11HP.D5	
ERC11HP.D5,5	
ERC11HP.D6	
ERC11HP.D6,5	
ERC11HP.D7	



↗ 0,005

SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D.1÷7 x 0,5mm

BX.ERC11HP-13



PINZE CON TAGLI VULCANIZZATI PER TENUTA DEL REFRIGERANTE * SEALED COLLETS WITH RUBBER INSERTS ALONG THE SLOT *

ERC11IK.D3	
ERC11IK.D3,5	
ERC11IK.D4	
ERC11IK.D4,5	
ERC11IK.D5	
ERC11IK.D5,5	
ERC11IK.D6	
ERC11IK.D6,5	
ERC11IK.D7	

MAX 40 BAR



↗ 0,008

PINZE IN POLLICI CON PRECISIONE STANDARD STANDARD PRECISION COLLETS INCH SIZES

ERC11.D1/16	
ERC11.D3/32	
ERC11.D1/8	
ERC11.D5/32	
ERC11.D3/16	
ERC11.D7/32	
ERC11.D1/4	



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D.1/16 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4

BX.ERC11P-7



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI
UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK
TOLERANCE MAX h10. NO CLAMPING RANGE



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERC16.D1	
ERC16.D2	
ERC16.D3	
ERC16.D4	
ERC16.D5	
ERC16.D6	
ERC16.D7	
ERC16.D8	
ERC16.D9	
ERC16.D10	



\nearrow 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D1÷10 x 0,5mm

TY.ERC16-10



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D1÷10 x 0,5mm

BX.ERC16-10



PINZE DI ALTA PRECISIONE *
HIGH PRECISION COLLETS *

ERC16HP.D1	
ERC16HP.D1,5	
ERC16HP.D2	
ERC16HP.D2,5	
ERC16HP.D3	
ERC16HP.D3,5	
ERC16HP.D4	
ERC16HP.D4,5	
ERC16HP.D5	
ERC16HP.D5,5	
ERC16HP.D6	
ERC16HP.D6,5	
ERC16HP.D7	
ERC16HP.D7,5	
ERC16HP.D8	
ERC16HP.D8,5	
ERC16HP.D9	
ERC16HP.D9,5	
ERC16HP.D10	



\nearrow 0,005

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D1÷10 x 0,5mm

BX.ERC16HP-10



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK TOLERANCE MAX h10. NO CLAMPING RANGE





PINZE IN POLLICI CON PRECISIONE STANDARD STANDARD PRECISION COLLETS INCH SIZES

ERC16.D1/16	
ERC16.D3/32	
ERC16.D1/8	
ERC16.D5/32	
ERC16.D3/16	
ERC16.D7/32	
ERC16.D1/4	
ERC16.D9/32	
ERC16.D5/16	
ERC16.D11/32	
ERC16.D3/8	
ERC16.D13/32	



\nearrow 0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D 1/16 - 1/8 - 5/32 - 3/16 - 7/32
1/4 - 9/32 - 5/16 - 11/32 - 3/8

BX.ERC16P-10



PINZE A TENUTA DEL REFRIGERANTE CON INSERTI IN NEOPRENE * SEALED COLLETS WITH RUBBER PLUGS *

ERC16RF.D3	
ERC16RF.D4	
ERC16RF.D5	
ERC16RF.D6	
ERC16RF.D7	
ERC16RF.D8	
ERC16RF.D9	
ERC16RF.D10	

MAX 21 BAR



\nearrow 0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D3÷10 x 1mm

BX.ERC16RF-8



PINZE CON TAGLI VULCANIZZATI PER TENUTA DEL REFRIGERANTE * SEALED COLLETS WITH RUBBER INSERTS ALONG THE SLOT *

ERC16IK.D3	
ERC16IK.D4	
ERC16IK.D5	
ERC16IK.D6	
ERC16IK.D7	
ERC16IK.D8	
ERC16IK.D9	
ERC16IK.D10	

MAX 40 BAR



\nearrow 0,008

PINZE CON FORI DI LUBRIFICAZIONE * EXTERNALLY COOLED COLLETS *

ERC16JET.D3	
ERC16JET.D4	
ERC16JET.D5	
ERC16JET.D6	
ERC16JET.D7	



\nearrow 0,010 ÷ 0,015

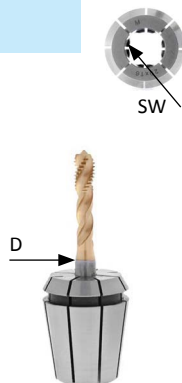
* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI
UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* *NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK
TOLLERANCE MAX h10. NO CLAMPING RANGE*





PINZE PORTAMASCHI
RIGID TAP COLLETS WITH SQUARE DRIVE

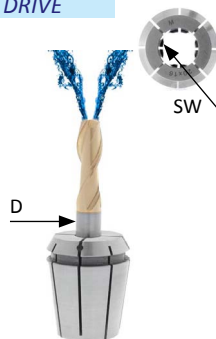
	SW
ERC16M.D3,5	2,7
ERC16M.D4	3
ERC16M.D4,5	3,4
ERC16M.D5	4
ERC16M.D5,5	4,3
ERC16M.D6	4,9
ERC16M.D6,3	5
ERC16M.D7	5,5
ERC16M.D8	6,2
ERC16M.D9	7
ERC16M.D10	8



Maschi - Taps M3÷M12

PINZE PORTAMASCHI CON QUADRO A TENUTA DEL REFRIGERANTE
SEALED TAPPING COLLETS WITH SQUARE DRIVE

	SW
ERC16MRF.D4	3
ERC16MRF.D4,5	3,4
ERC16MRF.D5	4
ERC16MRF.D5,5	4,3
ERC16MRF.D6	4,9
ERC16MRF.D7	5,5
ERC16MRF.D8	6,2



Maschi - Taps M4÷M10

PINZE PORTAMASCHI CON COMPENSAZIONE ASSIALE
TAPPING COLLETS WITH ASSIAL COMPENSATION

Made by TECHNIKS

ERC16FT.D1,4	
ERC16FT.D1,6	
ERC16FT.D1,8	
ERC16FT.D2	
ERC16FT.D2,2	
ERC16FT.D2,5	
ERC16FT.D2,8	
ERC16FT.D3	
ERC16FT.D3,15	
ERC16FT.D3,5	
ERC16FT.D4	
ERC16FT.D4,5	
ERC16FT.D5	
ERC16FT.D5,5	
ERC16FT.D6	



Maschi - Taps M1÷M8

EXTENSION T: 7mm

PINZE CON OSCILLAZIONE RADIALE PER ALESATORI
FLOATING COLLETS FOR REAMERS

ERC16PA.D2	
ERC16PA.D3	
ERC16PA.D4	
ERC16PA.D5	
ERC16PA.D6	
ERC16PA.D7	

ALESATORI - REAMERS



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERC20.D1	
ERC20.D2	
ERC20.D3	
ERC20.D4	
ERC20.D5	
ERC20.D6	
ERC20.D7	
ERC20.D8	
ERC20.D9	
ERC20.D10	
ERC20.D11	
ERC20.D12	
ERC20.D13	
ERC20.D14	



0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY
D2÷13 x 1mm

TY.ERC20-12



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX
D2÷13 x 1mm

BX.ERC20-12



PINZE DI ALTA PRECISIONE *
*HIGH PRECISION COLLETS **

ERC20HP.D1	
ERC20HP.D1,5	
ERC20HP.D2	
ERC20HP.D2,5	
ERC20HP.D3	
ERC20HP.D3,5	
ERC20HP.D4	
ERC20HP.D4,5	
ERC20HP.D5	
ERC20HP.D5,5	
ERC20HP.D6	
ERC20HP.D6,5	
ERC20HP.D7	
ERC20HP.D7,5	
ERC20HP.D8	
ERC20HP.D8,5	
ERC20HP.D9	
ERC20HP.D9,5	
ERC20HP.D10	
ERC20HP.D10,5	
ERC20HP.D11	
ERC20HP.D11,5	
ERC20HP.D12	
ERC20HP.D12,5	
ERC20HP.D13	



0,005

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX
D2÷13 x 1mm

BX.ERC20HP-12



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* *NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK TOLERANCE MAX h10. NO CLAMPING RANGE*



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE IN POLLICI CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS INCH SIZES

ERC20.D1/16	
ERC20.D3/32	
ERC20.D1/8	
ERC20.D5/32	
ERC20.D3/16	
ERC20.D7/32	
ERC20.D1/4	
ERC20.D9/32	
ERC20.D5/16	
ERC20.D11/32	
ERC20.D3/8	
ERC20.D13/32	
ERC20.D7/16	
ERC20.D15/32	
ERC20.D1/2	



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D 1/8 - 3/16 - 7/32 - 1/4 - 5/16
11/32 - 3/8 - 13/32 - 7/16 - 1/2

BX.ERC20P-10



PINZE A TENUTA DEL REFRIGERANTE
CON INSERTI IN NEOPRENE *
SEALED COLLETS WITH RUBBER PLUGS *

ERC20RF.D3	
ERC20RF.D4	
ERC20RF.D5	
ERC20RF.D6	
ERC20RF.D7	
ERC20RF.D8	
ERC20RF.D9	
ERC20RF.D10	
ERC20RF.D11	
ERC20RF.D12	
ERC20RF.D13	

MAX 21 BAR



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D3÷13 x 1mm

BX.ERC20RF-11



PINZE CON FORI DI LUBRIFICAZIONE
EXTERNALLY COOLED COLLETS

ERC20JET.D3	
ERC20JET.D4	
ERC20JET.D5	
ERC20JET.D6	
ERC20JET.D7	
ERC20JET.D8	
ERC20JET.D9	
ERC20JET.D10	
ERC20JET.D11	



↗ 0,010 ÷ 0,015

PINZE CON TAGLI VULCANIZZATI
PER TENUTA DEL REFRIGERANTE *
SEALED COLLETS WITH RUBBER INSERTS
ALONG THE SLOT *

ERC20IK.D3	
ERC20IK.D4	
ERC20IK.D5	
ERC20IK.D6	
ERC20IK.D7	
ERC20IK.D8	
ERC20IK.D9	
ERC20IK.D10	
ERC20IK.D11	
ERC20IK.D12	
ERC20IK.D13	

MAX 40 BAR



↗ 0,008

* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI
UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK
TOLLERANCE MAX h10. NO CLAMPING RANGE



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE PORTAMASCHI
RIGID TAP COLLETS WITH SQUARE DRIVE

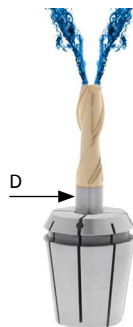
	SW
ERC20M.D3,5	2,7
ERC20M.D4	3
ERC20M.D4,5	3,4
ERC20M.D5	4
ERC20M.D5,5	4,3
ERC20M.D6	4,9
ERC20M.D6,3	5
ERC20M.D7	5,5
ERC20M.D8	6,2
ERC20M.D9	7
ERC20M.D10	8
ERC20M.D11	9
ERC20M.D12	9



Maschi - Taps M3÷M16

PINZE PORTAMASCHI CON QUADRO
A TENUTA DEL REFRIGERANTE
SEALED TAPPING COLLETS WITH SQUARE DRIVE

	SW
ERC20MRF.D4	3
ERC20MRF.D4,5	3,4
ERC20MRF.D5	4
ERC20MRF.D5,5	4,3
ERC20MRF.D6	4,9
ERC20MRF.D7	5,5
ERC20MRF.D8	6,2
ERC20MRF.D9	7
ERC20MRF.D10	8



Maschi - Taps M4÷M12

PINZE PORTAMASCHI
CON COMPENSAZIONE ASSIALE
TAPPING COLLETS WITH ASSIAL COMPENSATION

ERC20FT.D2,5	
ERC20FT.D2,8	
ERC20FT.D3	
ERC20FT.D3,5	
ERC20FT.D4	
ERC20FT.D4,5	
ERC20FT.D5	
ERC20FT.D5,5	
ERC20FT.D6	
ERC20FT.D7	

Made by TECHNIKS



Maschi - Taps M1÷M10

EXTENSION T: 7mm

PINZE CON OSCILLAZIONE RADIALE PER ALESATORI
FLOATING COLLETS FOR REAMERS

ERC20PA.D3	
ERC20PA.D4	
ERC20PA.D5	
ERC20PA.D6	
ERC20PA.D7	
ERC20PA.D8	

ALESATORI - REAMERS



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE CON PRECISIONE STANDARD STANDARD PRECISION COLLETS

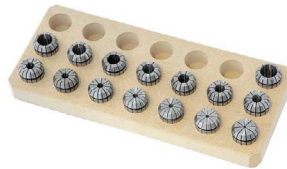
ERC25.D1	
ERC25.D2	
ERC25.D3	
ERC25.D4	
ERC25.D5	
ERC25.D6	
ERC25.D7	
ERC25.D8	
ERC25.D9	
ERC25.D10	
ERC25.D11	
ERC25.D12	
ERC25.D13	
ERC25.D14	
ERC25.D15	
ERC25.D16	
ERC25.D17	
ERC25.D18	
ERC25.D19	
ERC25.D20	



SERIE DI PINZE - CONTENITORE DI LEGNO COLLET SETS - WOODEN TRAY

D.2÷16 x 1mm

TY.ERC25-15



SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D.2÷16 x 1mm

BX.ERC25-15



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO COLLET SETS - WOODEN TRAY

D.4-6-8-10-12-16

TY.ERC25-6



PINZE DI ALTA PRECISIONE * HIGH PRECISION COLLETS *

ERC25HP.D1	
ERC25HP.D1,5	
ERC25HP.D2	
ERC25HP.D2,5	
ERC25HP.D3	
ERC25HP.D3,5	
ERC25HP.D4	
ERC25HP.D4,5	
ERC25HP.D5	
ERC25HP.D5,5	
ERC25HP.D6	
ERC25HP.D6,5	
ERC25HP.D7	
ERC25HP.D7,5	
ERC25HP.D8	
ERC25HP.D8,5	
ERC25HP.D9	
ERC25HP.D9,5	
ERC25HP.D10	
ERC25HP.D10,5	
ERC25HP.D11	
ERC25HP.D11,5	
ERC25HP.D12	
ERC25HP.D12,5	
ERC25HP.D13	
ERC25HP.D13,5	
ERC25HP.D14	
ERC25HP.D14,5	
ERC25HP.D15	
ERC25HP.D15,5	
ERC25HP.D16	



↗ 0,005

SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D.2÷16 x 1mm

BX.ERC25HP-15



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING

* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI
UTENSILI CON GAMBO IN TOLLERANZA MAX h10

* NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK
TOLLERANCE MAX h10. NO CLAMPING RANGE



PINZE IN POLLICI CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS INCH SIZES

ERC25.D1/16	
ERC25.D3/32	
ERC25.D1/8	
ERC25.D5/32	
ERC25.D3/16	
ERC25.D7/32	
ERC25.D1/4	
ERC25.D9/32	
ERC25.D5/16	
ERC25.D11/32	
ERC25.D3/8	
ERC25.D13/32	
ERC25.D7/16	
ERC25.D15/32	
ERC25.D1/2	
ERC25.D17/32	
ERC25.D9/16	
ERC25.D19/32	
ERC25.D5/8	



\nearrow 0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.1/8 - 3/16 - 7/32 - 1/4 - 5/16 - 11/32 - 3/8 - 13/32 - 7/16 - 1/2 - 17/32 - 9/16 - 5/8

BX.ERC25P-13



PINZE A TENUTA DEL REFRIGERANTE CON INSERTI IN NEOPRENE *
*SEALED COLLETS WITH RUBBER PLUGS **

ERC25RF.D3	
ERC25RF.D4	
ERC25RF.D5	
ERC25RF.D6	
ERC25RF.D7	
ERC25RF.D8	
ERC25RF.D9	
ERC25RF.D10	
ERC25RF.D11	
ERC25RF.D12	
ERC25RF.D13	
ERC25RF.D14	
ERC25RF.D15	
ERC25RF.D16	

MAX 21 BAR



\nearrow 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.4-6-8-10-12-16

TY.ERC25RF-6



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.3÷16 x 1mm

BX.ERC25RF-14



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* *NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK TOLERANCE MAX h10. NO CLAMPING RANGE*



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



**PINZE A TENUTA DEL REFRIGERANTE
CON TAGLI CORTI ***
*SOLID STEEL SEALED COLLETS WITH SHORT SLOTS **

ERC25SSC.D3	
ERC25SSC.D4	
ERC25SSC.D5	
ERC25SSC.D6	
ERC25SSC.D7	
ERC25SSC.D8	
ERC25SSC.D9	
ERC25SSC.D10	
ERC25SSC.D11	
ERC25SSC.D12	
ERC25SSC.D13	
ERC25SSC.D14	
ERC25SSC.D15	
ERC25SSC.D16	

MAX 70 BAR



↗ 0,008

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.4-6-8-10-12-16

TY.ERC25SSC-6	
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**PINZE CON TAGLI VULCANIZZATI
PER TENUTA DEL REFRIGERANTE ***
*SEALED COLLETS WITH RUBBER INSERTS
ALONG THE SLOT **

ERC25IK.D3	
ERC25IK.D4	
ERC25IK.D5	
ERC25IK.D6	
ERC25IK.D7	
ERC25IK.D8	
ERC25IK.D9	
ERC25IK.D10	
ERC25IK.D11	
ERC25IK.D12	
ERC25IK.D13	
ERC25IK.D14	
ERC25IK.D15	
ERC25IK.D16	

MAX 40 BAR



↗ 0,008

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.4-6-8-10-12-16

TY.ERC25IK-6	
--------------	--



PINZE CON FORI DI LUBRIFICAZIONE
EXTERNALLY COOLED COLLETS

ERC25JET.D3	
ERC25JET.D4	
ERC25JET.D5	
ERC25JET.D6	
ERC25JET.D7	
ERC25JET.D8	
ERC25JET.D9	
ERC25JET.D10	
ERC25JET.D11	
ERC25JET.D12	
ERC25JET.D13	
ERC25JET.D14	



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.4-6-8-10-12-16

TY.ERC25JET-5	
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* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI
UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* *NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK
TOLLERANCE MAX h10. NO CLAMPING RANGE*



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE PORTAMASCHI
RIGID TAP COLLETS WITH SQUARE DRIVE

	SW
ERC25M.D3,5	2,7
ERC25M.D4	3
ERC25M.D4,5	3,4
ERC25M.D5	4
ERC25M.D5,5	4,3
ERC25M.D6	4,9
ERC25M.D6,3	5
ERC25M.D7	5,5
ERC25M.D8	6,2
ERC25M.D9	7
ERC25M.D10	8
ERC25M.D11	9
ERC25M.D11,2	9
ERC25M.D12	9
ERC25M.D14	11
ERC25M.D16	12



Maschi - Taps M3÷M20

PINZE PORTAMASCHI
CON COMPENSAZIONE ASSIALE
TAPPING COLLETS WITH ASSIAL COMPENSATION

ERC25FT.D2,5	
ERC25FT.D2,8	
ERC25FT.D3	
ERC25FT.D3,5	
ERC25FT.D4	
ERC25FT.D4,5	
ERC25FT.D5	
ERC25FT.D5,5	
ERC25FT.D6	
ERC25FT.D7	
ERC25FT.D8	
ERC25FT.D9	
ERC25FT.D10	

Made by TECHNIKS

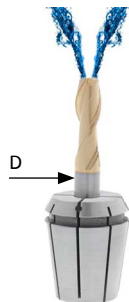


Maschi - Taps M1÷M12

EXTENSION T: 8mm

PINZE PORTAMASCHI CON QUADRO
A TENUITA DEL REFRIGERANTE
SEALED TAPPING COLLETS WITH SQUARE DRIVE

	SW
ERC25MRF.D4	3
ERC25MRF.D4,5	3,4
ERC25MRF.D5	4
ERC25MRF.D5,5	4,3
ERC25MRF.D6	4,9
ERC25MRF.D7	5,5
ERC25MRF.D8	6,2
ERC25MRF.D9	7
ERC25MRF.D10	8
ERC25MRF.D11	9
ERC25MRF.D12	9



Maschi - Taps M4÷M16

PINZE CON OSCILLAZIONE RADIALE PER ALESATORI
FLOATING COLLETS FOR REAMERS

ERC25PA.D3	
ERC25PA.D4	
ERC25PA.D5	
ERC25PA.D6	
ERC25PA.D7	
ERC25PA.D8	
ERC25PA.D9	
ERC25PA.D10	

ALESATORI - REAMERS



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* *NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK TOLLERANCE MAX h10. NO CLAMPING RANGE*



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE CON PRECISIONE STANDARD STANDARD PRECISION COLLETS

ERC32.D2	
ERC32.D3	
ERC32.D4	
ERC32.D5	
ERC32.D6	
ERC32.D7	
ERC32.D8	
ERC32.D9	
ERC32.D10	
ERC32.D11	
ERC32.D12	
ERC32.D13	
ERC32.D14	
ERC32.D15	
ERC32.D16	
ERC32.D17	
ERC32.D18	
ERC32.D19	
ERC32.D20	
ERC32.D21	
ERC32.D22	

↗ 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO COLLET SETS - WOODEN TRAY

D.6-8-10-12-16-20

TY.ERC32-6



SERIE DI PINZE - CONTENITORE DI LEGNO COLLET SETS - WOODEN TRAY

D.3÷20 x1mm

TY.ERC32-18



SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D.3÷20 x 1mm

BX.ERC32-18



PINZE DI ALTA PRECISIONE * HIGH PRECISION COLLETS *

ERC32HP.D2	
ERC32HP.D2,5	
ERC32HP.D3	
ERC32HP.D3,5	
ERC32HP.D4	
ERC32HP.D4,5	
ERC32HP.D5	
ERC32HP.D5,5	
ERC32HP.D6	
ERC32HP.D6,5	
ERC32HP.D7	
ERC32HP.D7,5	
ERC32HP.D8	
ERC32HP.D8,5	
ERC32HP.D9	
ERC32HP.D9,5	
ERC32HP.D10	
ERC32HP.D10,5	
ERC32HP.D11	
ERC32HP.D11,5	
ERC32HP.D12	
ERC32HP.D12,5	
ERC32HP.D13	
ERC32HP.D13,5	
ERC32HP.D14	
ERC32HP.D14,5	
ERC32HP.D15	
ERC32HP.D15,5	
ERC32HP.D16	
ERC32HP.D16,5	
ERC32HP.D17	
ERC32HP.D17,5	
ERC32HP.D18	
ERC32HP.D18,5	
ERC32HP.D19	
ERC32HP.D19,5	
ERC32HP.D20	

↗ 0,005

SERIE DI PINZE - CASSETTA DI ALLUMINIO COLLET SETS - ALUMINIUM BOX

D.3÷20 x 1mm

BX.ERC32HP-18



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK TOLLERANCE MAX h10. NO CLAMPING RANGE





PINZE IN POLLICI CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS INCH SIZES

ERC32.D3/32	
ERC32.D1/8	
ERC32.D5/32	
ERC32.D3/16	
ERC32.D7/32	
ERC32.D1/4	
ERC32.D9/32	
ERC32.D5/16	
ERC32.D11/32	
ERC32.D3/8	
ERC32.D13/32	
ERC32.D7/16	
ERC32.D15/32	
ERC32.D1/2	
ERC32.D17/32	
ERC32.D9/16	
ERC32.D19/32	
ERC32.D5/8	
ERC32.D21/32	
ERC32.D11/16	
ERC32.D23/32	
ERC32.D3/4	



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4

BX.ERC32P-11



PINZE A TENUTA DEL REFRIGERANTE
CON INSERTI IN NEOPRENE *
SEALED COLLETS WITH RUBBER PLUGS *

ERC32RF.D3	
ERC32RF.D4	
ERC32RF.D5	
ERC32RF.D6	
ERC32RF.D7	
ERC32RF.D8	
ERC32RF.D9	
ERC32RF.D10	
ERC32RF.D11	
ERC32RF.D12	
ERC32RF.D13	
ERC32RF.D14	
ERC32RF.D15	
ERC32RF.D16	
ERC32RF.D17	
ERC32RF.D18	
ERC32RF.D19	
ERC32RF.D20	

MAX 21 BAR



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.6-8-10-12-16-20

TY.ERC32RF-6



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.3÷20 x 1mm

BX.ERC32RF-18



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK TOLERANCE MAX h10. NO CLAMPING RANGE



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



**PINZE A TENUTA DEL REFRIGERANTE
CON TAGLI CORTI ***
*SOLID STEEL SEALED COLLETS WITH SHORT SLOTS **

MAX 70 BAR



ERC32SSC.D3	
ERC32SSC.D4	
ERC32SSC.D5	
ERC32SSC.D6	
ERC32SSC.D7	
ERC32SSC.D8	
ERC32SSC.D9	
ERC32SSC.D10	
ERC32SSC.D11	
ERC32SSC.D12	
ERC32SSC.D13	
ERC32SSC.D14	
ERC32SSC.D15	
ERC32SSC.D16	
ERC32SSC.D17	
ERC32SSC.D18	
ERC32SSC.D19	
ERC32SSC.D20	

↗ 0,008

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.6-8-10-12-16-20

TY.ERC32SSC-6



**PINZE CON TAGLI VULCANIZZATI
PER TENUTA DEL REFRIGERANTE ***
*SEALED COLLETS WITH RUBBER INSERTS
ALONG THE SLOT **

MAX 40 BAR



ERC32IK.D3	
ERC32IK.D4	
ERC32IK.D5	
ERC32IK.D6	
ERC32IK.D7	
ERC32IK.D8	
ERC32IK.D9	
ERC32IK.D10	
ERC32IK.D11	
ERC32IK.D12	
ERC32IK.D13	
ERC32IK.D14	
ERC32IK.D15	
ERC32IK.D16	
ERC32IK.D17	
ERC32IK.D18	
ERC32IK.D19	
ERC32IK.D20	

↗ 0,008

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.6-8-10-12-16-20

TY.ERC32IK-6



- * BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI UTENSILI CON GAMBO IN TOLLERANZA MAX h10
- * *NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK TOLLERANCE MAX h10. NO CLAMPING RANGE*

PINZE CON FORI DI LUBRIFICAZIONE
EXTERNALLY COOLED COLLETS

ERC32JET.D3	
ERC32JET.D4	
ERC32JET.D5	
ERC32JET.D6	
ERC32JET.D7	
ERC32JET.D8	
ERC32JET.D9	
ERC32JET.D10	
ERC32JET.D11	
ERC32JET.D12	
ERC32JET.D13	
ERC32JET.D14	
ERC32JET.D15	
ERC32JET.D16	
ERC32JET.D17	
ERC32JET.D18	
ERC32JET.D19	
ERC32JET.D20	

↗ 0,010 ÷ 0,015



SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.6-8-10-12-16-20

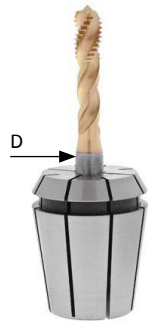
TY.ERC32JET-6





PINZE PORTAMASCHI
RIGID TAP COLLETS WITH SQUARE DRIVE

	SW
ERC32M.D3,5	2,7
ERC32M.D4	3
ERC32M.D4,5	3,4
ERC32M.D5	4
ERC32M.D5,5	4,3
ERC32M.D6	4,9
ERC32M.D6,3	5
ERC32M.D7	5,5
ERC32M.D8	6,2
ERC32M.D9	7
ERC32M.D10	8
ERC32M.D11	9
ERC32M.D11,2	9
ERC32M.D12	9
ERC32M.D12,5	10
ERC32M.D14	11
ERC32M.D16	12
ERC32M.D18	14,5
ERC32M.D20	16



Maschi - Taps M3÷M27

PINZE PORTAMASCHI CON QUADRO
A TENUTA DEL REFRIGERANTE
SEALED TAPPING COLLETS WITH SQUARE DRIVE

	SW
ERC32MRF.D4,5	3,4
ERC32MRF.D5	4
ERC32MRF.D5,5	4,3
ERC32MRF.D6	4,9
ERC32MRF.D7	5,5
ERC32MRF.D8	6,2
ERC32MRF.D9	7
ERC32MRF.D10	8
ERC32MRF.D11	9
ERC32MRF.D12	9
ERC32MRF.D14	11
ERC32MRF.D16	11



Maschi - Taps M4÷M22

PINZE PORTAMASCHI
CON COMPENSAZIONE ASSIALE
TAPPING COLLETS WITH ASSIAL COMPENSATION

Made by TECHNIKS

ERC32FT.D4	
ERC32FT.D4,5	
ERC32FT.D5	
ERC32FT.D5,5	
ERC32FT.D6	
ERC32FT.D7	
ERC32FT.D8	
ERC32FT.D9	
ERC32FT.D10	
ERC32FT.D11	
ERC32FT.D12	
ERC32FT.D12,5	

Maschi - Taps M4÷M16

EXTENSION T: 10mm



PINZE CON OSCILLAZIONE RADIALE PER ALESATORI
FLOATING COLLETS FOR REAMERS

ERC32PA.D4	
ERC32PA.D5	
ERC32PA.D6	
ERC32PA.D7	
ERC32PA.D8	
ERC32PA.D9	
ERC32PA.D10	
ERC32PA.D11	
ERC32PA.D12	
ERC32PA.D13	
ERC32PA.D14	

ALESATORI - REAMERS



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERC40.D3	
ERC40.D4	
ERC40.D5	
ERC40.D6	
ERC40.D7	
ERC40.D8	
ERC40.D9	
ERC40.D10	
ERC40.D11	
ERC40.D12	
ERC40.D13	
ERC40.D14	
ERC40.D15	
ERC40.D16	
ERC40.D17	
ERC40.D18	
ERC40.D19	
ERC40.D20	
ERC40.D21	
ERC40.D22	
ERC40.D23	
ERC40.D24	
ERC40.D25	
ERC40.D26	
ERC40.D27	
ERC40.D28	
ERC40.D29	
ERC40.D30	



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.6-8-10-12-16-20-25

TY.ERC40-7



SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.4÷26 x 1mm

TY.ERC40-23



SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

D.3÷30 x 1mm

TY.ERC40-28



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.4÷26 x 1mm

BX.ERC40-23



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.3÷30 x 1mm

BX.ERC40-28



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE DI ALTA PRECISIONE *
HIGH PRECISION COLLETS *

ERC40HP.D3	
ERC40HP.D4	
ERC40HP.D5	
ERC40HP.D6	
ERC40HP.D7	
ERC40HP.D8	
ERC40HP.D9	
ERC40HP.D10	
ERC40HP.D11	
ERC40HP.D12	
ERC40HP.D13	
ERC40HP.D14	
ERC40HP.D15	
ERC40HP.D16	
ERC40HP.D17	
ERC40HP.D18	
ERC40HP.D19	
ERC40HP.D20	
ERC40HP.D21	
ERC40HP.D22	
ERC40HP.D23	
ERC40HP.D24	
ERC40HP.D25	
ERC40HP.D26	



0,005

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.4±26 x 1mm

BX.ERC40HP-23



PINZE IN POLLICI CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS INCH SIZES

ERC40.D1/8	
ERC40.D5/32	
ERC40.D3/16	
ERC40.D7/32	
ERC40.D1/4	
ERC40.D9/32	
ERC40.D5/16	
ERC40.D11/32	
ERC40.D3/8	
ERC40.D13/32	
ERC40.D7/16	
ERC40.D15/32	
ERC40.D1/2	
ERC40.D17/32	
ERC40.D9/16	
ERC40.D19/32	
ERC40.D5/8	
ERC40.D21/32	
ERC40.D11/16	
ERC40.D23/32	
ERC40.D3/4	
ERC40.D25/32	
ERC40.D13/16	
ERC40.D27/32	
ERC40.D7/8	
ERC40.D29/32	
ERC40.D15/16	
ERC40.D31/32	
ERC40.D1"	



0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16 - 1

BX.ERC40P-15



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI UTENSILI CON GAMBO IN TOLLERANZA MAX h10
* NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK TOLLERANCE MAX h10. NO CLAMPING RANGE



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



**PINZE A TENUTA DEL REFRIGERANTE
CON INSERTI IN NEOPRENE ***
*SEALED COLLETS WITH RUBBER PLUGS **

ERC40RF.D4	
ERC40RF.D5	
ERC40RF.D6	
ERC40RF.D7	
ERC40RF.D8	
ERC40RF.D9	
ERC40RF.D10	
ERC40RF.D11	
ERC40RF.D12	
ERC40RF.D13	
ERC40RF.D14	
ERC40RF.D15	
ERC40RF.D16	
ERC40RF.D17	
ERC40RF.D18	
ERC40RF.D19	
ERC40RF.D20	
ERC40RF.D21	
ERC40RF.D22	
ERC40RF.D23	
ERC40RF.D24	
ERC40RF.D25	
ERC40RF.D26	

MAX 21 BAR



↗ 0,010 ÷ 0,015

SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY

TY.ERC40RF-7



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

BX.ERC40RF-23



PINZE CON FORI DI LUBRIFICAZIONE *
*SOLID STEEL SEALED COLLETS WITH SHORT SLOTS **

ERC40SSC.D6	
ERC40SSC.D8	
ERC40SSC.D10	
ERC40SSC.D12	
ERC40SSC.D14	
ERC40SSC.D16	
ERC40SSC.D18	
ERC40SSC.D20	
ERC40SSC.D25	

↗ 0,008

MAX 70 BAR



PINZE CON FORI DI LUBRIFICAZIONE
EXTERNALLY COOLED COLLETS

ERC40JET.D4	
ERC40JET.D5	
ERC40JET.D6	
ERC40JET.D7	
ERC40JET.D8	
ERC40JET.D9	
ERC40JET.D10	
ERC40JET.D11	
ERC40JET.D12	
ERC40JET.D13	
ERC40JET.D14	
ERC40JET.D15	
ERC40JET.D16	
ERC40JET.D17	
ERC40JET.D18	
ERC40JET.D19	
ERC40JET.D20	
ERC40JET.D21	
ERC40JET.D22	
ERC40JET.D23	
ERC40JET.D24	
ERC40JET.D25	

↗ 0,008



* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI
UTENSILI CON GAMBO IN TOLLERANZA MAX h10

* *NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK
TOLLERANCE MAX h10. NO CLAMPING RANGE*

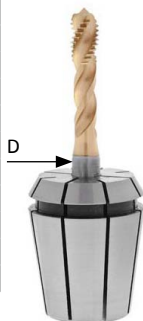


ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE PORTAMASCHI
RIGID TAP COLLETS WITH SQUARE DRIVE

	SW
ERC40M.D6	4,9
ERC40M.D7	5,5
ERC40M.D8	6,2
ERC40M.D9	7
ERC40M.D10	8
ERC40M.D11	9
ERC40M.D12	9
ERC40M.D14	11
ERC40M.D16	12
ERC40M.D18	14,5
ERC40M.D20	16



Maschi - Taps M6÷M27

PINZE PORTAMASCHI
CON COMPENSAZIONE ASSIALE
TAPPING COLLETS WITH ASSIAL COMPENSATION

Made by TECHNIKS

ERC40FT.D6	
ERC40FT.D7	
ERC40FT.D8	
ERC40FT.D9	
ERC40FT.D10	
ERC40FT.D11	
ERC40FT.D12	
ERC40FT.D12,5	
ERC40FT.D14	
ERC40FT.D16	

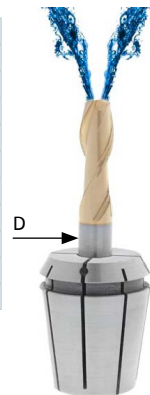


Maschi - Taps M5÷M20

EXTENSION T: 13mm

PINZE PORTAMASCHI CON QUADRO
A TENUTA DEL REFRIGERANTE
SEALED TAPPING COLLETS WITH SQUARE DRIVE

	SW
ERC40MRF.D6	4,9
ERC40MRF.D7	5,5
ERC40MRF.D8	6,2
ERC40MRF.D9	7
ERC40MRF.D10	8
ERC40MRF.D11	9
ERC40MRF.D12	9
ERC40MRF.D14	11
ERC40MRF.D16	12
ERC40MRF.D18	14,5
ERC40MRF.D20	16



Maschi - Taps M6÷M27

PINZE CON OSCILLAZIONE RADIALE PER ALESATORI
FLOATING COLLETS FOR REAMERS

ERC40PA.D4	
ERC40PA.D5	
ERC40PA.D6	
ERC40PA.D7	
ERC40PA.D8	
ERC40PA.D9	
ERC40PA.D10	
ERC40PA.D11	
ERC40PA.D12	
ERC40PA.D13	
ERC40PA.D14	
ERC40PA.D15	
ERC40PA.D16	



ALESATORI - REAMERS



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERC50.D6	
ERC50.D7	
ERC50.D8	
ERC50.D9	
ERC50.D10	
ERC50.D11	
ERC50.D12	
ERC50.D13	
ERC50.D14	
ERC50.D15	
ERC50.D16	
ERC50.D17	
ERC50.D18	
ERC50.D19	
ERC50.D20	
ERC50.D21	
ERC50.D22	
ERC50.D23	
ERC50.D24	
ERC50.D25	
ERC50.D26	
ERC50.D27	
ERC50.D28	
ERC50.D29	
ERC50.D30	
ERC50.D31	
ERC50.D32	
ERC50.D33	
ERC50.D34	



SERIE DI PINZE - CONTENITORE DI LEGNO
COLLET SETS - WOODEN TRAY
D.12÷34 x 2mm

TY.ERC50-12



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX
D.12÷34 x 2mm

BX.ERC50-12



PINZE A TENUTA DEL REFRIGERANTE
CON INSERTI IN NEOPRENE *
SEALED COLLETS WITH RUBBER PLUGS *

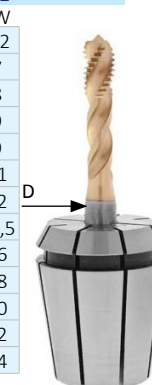
ERC50RF.D10	
ERC50RF.D12	
ERC50RF.D14	
ERC50RF.D16	
ERC50RF.D18	
ERC50RF.D20	
ERC50RF.D22	
ERC50RF.D24	
ERC50RF.D25	
ERC50RF.D26	
ERC50RF.D28	
ERC50RF.D30	
ERC50RF.D32	
ERC50RF.D34	

MAX 21 BAR



PINZE PORTAMASCHI
RIGID TAP COLLETS WITH SQUARE DRIVE

	SW
ERC50M.D8	6,2
ERC50M.D9	7
ERC50M.D10	8
ERC50M.D11	9
ERC50M.D12	9
ERC50M.D14	11
ERC50M.D16	12
ERC50M.D18	14,5
ERC50M.D20	16
ERC50M.D22	18
ERC50M.D25	20
ERC50M.D28	22
ERC50M.D32	24



Maschi - Taps M8÷M42

↗ 0,010 ÷ 0,020

* BLOCCANO SOLO IL DIAMETRO NOMINALE DEGLI
UTENSILI CON GAMBO IN TOLLERANZA MAX h10

* NOMINAL CLAMPING DIAMETER ONLY. TOOL SHANK
TOLLERANCE MAX h10. NO CLAMPING RANGE



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERC60.D10	
ERC60.D11	
ERC60.D12	
ERC60.D13	
ERC60.D14	
ERC60.D15	
ERC60.D16	
ERC60.D17	
ERC60.D18	
ERC60.D19	
ERC60.D20	
ERC60.D21	
ERC60.D22	
ERC60.D23	
ERC60.D24	
ERC60.D25	
ERC60.D26	
ERC60.D27	
ERC60.D28	
ERC60.D29	
ERC60.D30	
ERC60.D31	
ERC60.D32	
ERC60.D33	
ERC60.D34	
ERC60.D35	
ERC60.D36	
ERC60.D37	
ERC60.D38	
ERC60.D39	
ERC60.D40	



0,010 ÷ 0,020

CONTENITORI VUOTI PER SERIE DI PINZE
EMPTY RACKS FOR COLLETS

TYE.ERC8 - 15 seats	
TYE.ERC11 - 15 seats	
TYE.ERC16 - 15 seats	
TYE.ERC20 - 15 seats	
TYE.ERC25 - 6 seats	
TYE.ERC25 - 21 seats	
TYE.ERC32 - 6 seats	
TYE.ERC32 - 21 seats	
TYE.ERC40 - 8 seats	
TYE.ERC40 - 30 seats	
TYE.ERC50 - 12 seats	



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING



GHIERE MINI MINI NUTS

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G8M		12	M10x0,75	5÷6
G11M		16	M13x0,75	7÷17
G16M		22	M19x1	12÷24
G20M		28	M24x1	16÷28
G25M		35	M30x1	22÷32

GHIERE MINI - FILETTO SINISTRO MINI NUTS - LEFT THREAD

G11ML		16	M13x0,75 sin	7÷17
G16ML		22	M19x1 sin	12÷24
G20ML		28	M24x1 sin	16÷28
G25ML		35	M30x1 sin	22÷32

GHIERE MINI CON ESTRAZIONE CONCENTRICA PER ALTE VELOCITA' MINI NUTS WITH CONCENTRIC EXTRACTOR FOR HIGH SPEED

NON ADATTE PER PINZE NOT SUITABLE FOR COLLETS ERC - RF/SSC/JET/M/MRF

G16 WDM		22	M19x1	12÷24
G20 WDM		28	M24x1	16÷28
G25 WDM		35	M30x1	22÷32



CHIAVI PER GHIERE MINI WRENCHES FOR MINI NUTS

CH8M		
CH11M		
CH16M		
CH20M		
CH25M		



CHIAVI DINAMOMETRICE PER GHIERE MINI DYNAMOMETRIC WRENCHES FOR MINI NUTS

CD8MR12		
CD11MR16		
CD16MR22		
CD20MR28		
CD25MR35		



CHIAVI DINAMOMETRICHE A RULLI PER GHIERE MINI DYNAMOMETRIC WRENCHES WITH ROLLER FOR MINI NUTS

		A
CD8M		12
CD11M		16
CD16M		22
CD20M		28
CD25M		35



LA FORZA DI SERRAGGIO MAX DELLE GHIERE PUO' SUPERARE DI ¼ IL VALORE CONSIGLIATO. VALORI SUPERIORI POSSONO DEFORMARE IN MODO PERMANENTE IL PORTAPINZA.

THE MAX RECOMMENDED TIGHTENING TORQUE COULD BE INCREASED OF 25%. HIGHER TORQUE MAY DAMAGE THE COLLET CHUCK.



GHIERE ESAGONALI EXAGONAL NUTS

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G11SE	19	M14x0,75	8÷24
G16SE	28	M22x1,5	15÷50
G20SE	34	M25x1,5	16÷75
G25SE	42	M32x1,5	25÷100



GHIERE ESAGONALI - FILETTO SINISTRO EXAGONAL NUTS - LEFT THREAD

G16SEL	28	M22x1,5S	15÷50
G20SEL	34	M25x1,5S	16÷75

GHIERE ESAGONALI CON ESTRAZIONE CONCENTRICA PER ALTE VELOCITA' EXAGONAL NUTS WITH CONCENTRIC EXTRACTOR FOR HIGH SPEED

NON ADATTE PER PINZE NOT SUITABLE FOR COLLETS ERC - RF/SSC/JET/M/MRF

G20 WDE	34	M25x1,5	16÷75
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GHIERE MINI ESAGONALI EXAGONAL MINI NUTS

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G11MSE	16	M13x0,75	7÷17
G16MSE	25	M19x1	12÷24
G20MSE	30	M24x1	16÷28
G25MSE	37	M30x1	22÷32



CHIAVI PER GHIERE ESAGONALI WRENCHES FOR EXAGONAL NUTS

CH11.E17	
CH16.E25	
CH20.E30	
CH25.E38	



CHIAVI DINAMOMETRICHE PER GHIERE ESAGONALI DYNAMOMETRIC WRENCHES FOR EXAGONAL NUTS

CD11.E17	
CD16.E25	
CD20.E30	



CHIAVI PER GHIERE MINI ESAGONALI WRENCHES FOR MINI EXAGONAL NUTS

CH11M.E14	
CH16M.E22	
CH20M.E27	
CH25M.E34	



CHIAVI DINAMOMETRICHE PER GHIERE MINI ESAGONALI DYNAMOMETRIC WRENCHES FOR MINI EXAGONAL NUTS

CD11.E14M	
CD16.E22M	
CD20.E27M	



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING

GHIERE STANDARD STANDARD NUTS

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G16S		32	M22x1,5	15÷50
G20S		35	M25x1,5	16÷75
G25S		42	M32x1,5	25÷100
G32S		50	M40x1,5	25÷140
G40S		63	M50x1,5	60÷170
G50S		78	M64x2	120÷250



GHIERE STANDARD - FILETTO SINISTRO STANDARD NUTS - LEFT THREAD

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G32SL		50	M40x1,5sin	25÷120
G40SL		63	M50x1,5sin	60÷170

GHIERE STANDARD INOX STANDARD NUTS - STAINLESS STEEL

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G32 INOX		50	M40x1,5	25÷120
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GHIERE STANDARD CON ESTRAZIONE CONCENTRICA PER ALTE VELOCITA' STANDARD NUTS WITH CONCENTRIC EXTRACTOR FOR HIGH SPEED

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

NON ADATTE PER PINZE NOT SUITABLE FOR COLLETS ERC - RF/SSC/JET/M/MRF

G20 WD		35	M25x1,5	16÷70
G25 WD		42	M32x1,5	25÷100
G32 WD		50	M40x1,5	25÷140
G40 WD		63	M50x1,5	60÷170



GHIERE CON MOLLA DI ESTRAZIONE NUTS WITH EXTRACTOR CLIP

G25SEB		42	M32x1,5	25÷100
G32SEB		50	M40x1,5	25÷140
G40SEB		63	M50x1,5	60÷170



MOLLE DI RICAMBIO REPLACEMENT EXTRACTOR CLIPS

CLP25-10	
CLP32-10	
CLP40-10	



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING

CHIAVI PER GHIERE STANDARD WRENCHES FOR STANDARD NUTS

CH16S	
CH20S	
CH25S	
CH32S	
CH40S	
CH50S	



CHIAVI DINAMOMETRICHE PER GHIERE STANDARD DYNAMOMETRIC WRENCHES FOR STANDARD NUTS

TW803-210	
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CHIAVI A CRICCHETTO PER GHIERE STANDARD QUICK RELEASE RATCHET FOR STANDARD NUTS

CRC12RV	
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INSERZIONI PER CHIAVI DINAMOMETRICHE A CRICCHETTO HEADS FOR DYNAMOMETRIC WRENCHES AND RATCHET

CC25	
CC32	
CC40	



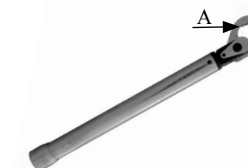
CHIAVI DINAMOMETRICHE PER GHIERE STANDARD DYNAMOMETRIC WRENCHES FOR STANDARD NUTS

CD16S	
CD20S	
CD25S	
CD32S	
CD40S	



CHIAVI DINAMOMETRICHE PER GHIERE STANDARD DYNAMOMETRIC WRENCHES FOR STANDARD NUTS

	A
CD16S32	32
CD20S35	35
CD25S42	42
CD32S50	50
CD40S63	63



CHIAVI DINAMOMETRICHE A RULLI PER GHIERE STANDARD DYNAMOMETRIC WRENCHES WITH ROLLER FOR STANDARD NUTS

	A
CD16R32	32
CD20R35	35
CD25R42	42
CD32R50	50
CD40R63	63

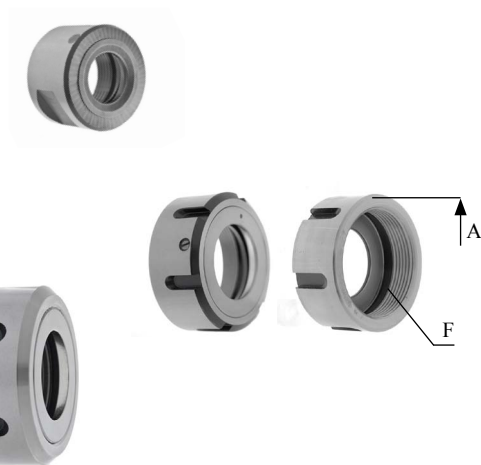


ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

GHIERE A SFERE FRICTION BEARING NUTS

G16C		32	M22x1,5	16÷55
G20C		35	M25x1,4	16÷80
G25C		42	M32x1,5	20÷110
G32C		50	M40x1,5	20÷140
G40C		63	M50x1,5	40÷180
G60CO		83	M70x1,5	60÷240



GHIERE A SFERE - CON FILETTO SINISTRO FRICTION BEARING NUTS - LEFT THREAD

G32CL		50	M40x1,5sin	20÷140
G40CL		63	M50x1,5sin	40÷180

NON ADATTE PER PINZE NOT SUITABLE FOR COLLETS ERC - RF/SSC/JET/M/MRF

GHIERE A SFERE CON ESTRAZIONE CONCENTRICA FRICTION BEARING NUTS WITH CONCENTRIC EXTRACTOR

G32WDC		50	M40x1,5	20÷140
G40WDC		63	M50x1,5	40÷180

NON ADATTE PER PINZE NOT SUITABLE FOR COLLETS ERC - RF/SSC/JET/M/MRF

GHIERE A SFERE CON ESTRAZIONE CONCENTRICA - CON FILETTO SINISTRO FRICTION BEARING NUTS WITH CONCENTRIC EXTRACTOR - LEFT THREAD

G32WDCL		50	M40x1,5sin	20÷140
G40WDCL		63	M50x1,5sin	40÷180

CHIAVI PER GHIERE ESAGONALI WRENCHES FOR EXAGONAL NUTS

CH16.E25	
CH20.E30	



CHIAVI PER GHIERE A SFERE WRENCHES FOR FRICTION BEARING NUTS

CH16S	
CH20S	
CH25S	
CH32S	
CH40S	

CH60 CO	
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ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING

GHIERE MINI - RIVESTITE COATED MINI NUTS

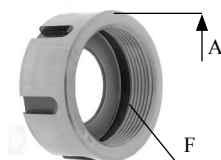
Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G8M.W	12	M10x0,75	5÷6
G11M.W	16	M13x0,75	7÷17
G16M.W	22	M19x1	12÷24
G20M.W	28	M24x1	16÷28
G25M.W	35	M30x1	22÷32



GHIERE ESAGONALI - RIVESTITE COATED EXAGONAL NUTS

G11SE.W	19	M14x0,75	8÷24
G16SE.W	28	M22x1,5	15÷50
G20SE.W	34	M25x1,5	16÷75



GHIERE STANDARD - RIVESTITE COATED STANDARD NUTS

G25S.W	42	M32x1,5	25÷100
G32S.W	50	M40x1,5	25÷140
G40S.W	63	M50x1,5	60÷170

CHIAVI PER GHIERE MINI WRENCHES FOR MINI NUTS

CH8M	
CH11M	
CH16M	
CH20M	
CH25M	



CHIAVI PER GHIERE STANDARD WRENCHES FOR STANDARD NUTS

CH25S	
CH32S	
CH40S	



CHIAVI PER GHIERE ESAGONALI WRENCHES FOR EXAGONAL NUTS

CH11.E17	
CH16.E25	
CH20.E30	



IL RIVESTIMENTO:
RIDUCE L'ATTRITO TRA LA GHIERA, LA PINZA E LA FILETTATURA DEL MANDRINO.
MIGLIORA LA RESISTENZA ALLA CORROSIONE.
AUMENTA LA DURATA IN SERVIZIO E L'AFFIDABILITA' FUNZIONALE

THE VACUUM COATING:
REDUCE FRICTION BETWEEN NUT, COLLET AND CHUCK'S THREAD
REDUCE THE LIABILITY TO CORROSION
INCREASE OPERATIONAL RELIABILITY AND SERVICE LIFE



GHIERE MINI SENZA TACCHE PER ALTE VELOCITA' NOTCH-FREE MINI NUTS FOR HIGH SPEED

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

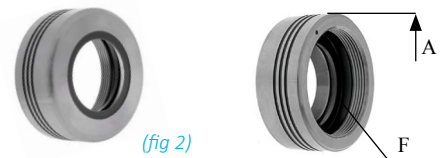
NF8M	12	M10x0,75	5÷6
NF11M	16	M13x0,75	7÷17
NF16M	24	M19x1	12÷24
NF20M	30	M24x1	16÷28
NF25M	37	M30x1	22÷32



(fig 1)

GHIERE SENZA TACCHE PER ALTE VELOCITA' NOTCH-FREE NUTS FOR HIGH SPEED

NF16	32	M22x1,5	15÷50
NF20	35	M25x1,5	16÷75
NF25	42	M32x1,5	25÷100
NF32	50	M40x1,5	25÷140
NF40	63	M50x1,5	60÷170



(fig 2)

CHIAVI DINAMOMETRICHE A RULLI PER GHIERE SENZA TACCHE DYNAMOMETRIC WRENCHES WITH ROLLER FOR NOTCH-FREE NUTS

CD8NFMR12	12
CD11NFMR16	16
CD16NFMR24	24
CD20NFMR30	32
CD25NFMR37	37



CD16NFR32	32
CD20NFR35	35
CD25NFR42	42
CD32NFR50	50
CD40NFR63	63



Mandrini HSK **MNF/NF**
MNF/NF HSK chucks



Mandrini TC **MNF/NF**
MNF/NF TC chucks



Mandrini BT **MNF/NF**
MNF/NF BT chucks



ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING

GHIERE MINI CON DISCHI DI TENUTA DEL REFRIGERANTE NUTS WITH SEAL DISKS - MINI TYPE

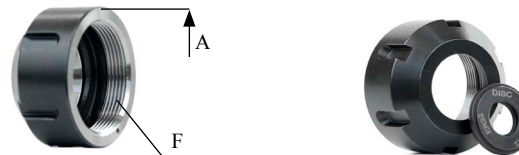
Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G16HTM	22	M19x1	12÷24
G20HTM	28	M24x1	16÷28
G25HTM	35	M30x1	22÷32



GHIERE ESAGONALI CON DISCHI DI TENUTA DEL REFRIGERANTE NUTS WITH SEAL DISKS - EXAGONAL TYPE

G16HTE	28	M22x1,5	15÷50
G20HTE	34	M25x1,5	16÷75



GHIERE STANDARD CON DISCHI DI TENUTA DEL REFRIGERANTE NUTS WITH SEAL DISKS - STANDARD TYPE

G25HT	42	M32x1,5	25÷100
G32HT	50	M40x1,5	25÷140
G40HT	63	M50x1,5	60÷170

DISCHI DI TENUTA SEALING DISKS

	A
RG16 D4 D10	13
RG16 D3,5 D9,5	13
RG20 D4 D13	16
RG20 D4,5 D12,5	16
RG25 D4 D16	21
RG25 D3,5 D15,6	21
RG32 D4 D20	27
RG32 D3,5 D19,5	27
RG40 D4 D26	33
RG40 D4,5 D25,5	33



CHIAVI PER GHIERE MINI WRENCHES FOR MINI NUTS

CH16M	
CH20M	
CH25M	



CHIAVI PER GHIERE STANDARD WRENCHES FOR STANDARD NUTS

CH25S	
CH32S	
CH40S	



CHIAVI PER GHIERE ESAGONALI WRENCHES FOR EXAGONAL NUTS

CH16.E25	
CH20.E30	

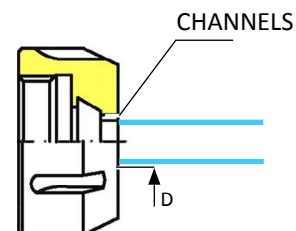


ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING

GHIERE CON CANALI DI LUBRIFICAZIONE NUTS WITH COOLANT CHANNELS

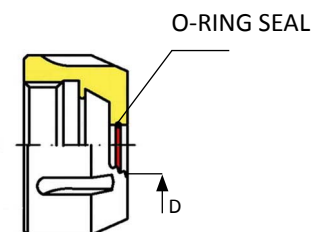
Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G32CLS.D4		50	M40x1,5	25÷140
G32CLS.D5		50	M40x1,5	25÷140
G32CLS.D6		50	M40x1,5	25÷140
G32CLS.D7		50	M40x1,5	25÷140
G32CLS.D8		50	M40x1,5	25÷140
G32CLS.D9		50	M40x1,5	25÷140
G32CLS.D10		50	M40x1,5	25÷140
G32CLS.D11		50	M40x1,5	25÷140
G32CLS.D12		50	M40x1,5	25÷140
G32CLS.D13		50	M40x1,5	25÷140
G32CLS.D14		50	M40x1,5	25÷140
G32CLS.D15		50	M40x1,5	25÷140
G32CLS.D16		50	M40x1,5	25÷140
G32CLS.D17		50	M40x1,5	25÷140
G32CLS.D18		50	M40x1,5	25÷140
G32CLS.D19		50	M40x1,5	25÷140
G32CLS.D20		50	M40x1,5	25÷140



GHIERE A TENUTA DEL REFRIGERANTE SEALED NUTS

G32THS.D4		50	M40x1,5	25÷140
G32THS.D5		50	M40x1,5	25÷140
G32THS.D6		50	M40x1,5	25÷140
G32THS.D7		50	M40x1,5	25÷140
G32THS.D8		50	M40x1,5	25÷140
G32THS.D9		50	M40x1,5	25÷140
G32THS.D10		50	M40x1,5	25÷140
G32THS.D11		50	M40x1,5	25÷140
G32THS.D12		50	M40x1,5	25÷140
G32THS.D13		50	M40x1,5	25÷140
G32THS.D14		50	M40x1,5	25÷140
G32THS.D15		50	M40x1,5	25÷140
G32THS.D16		50	M40x1,5	25÷140
G32THS.D17		50	M40x1,5	25÷140
G32THS.D18		50	M40x1,5	25÷140
G32THS.D19		50	M40x1,5	25÷140
G32THS.D20		50	M40x1,5	25÷140



CHIAVI PER GHIERE STANDARD WRENCHES FOR STANDARD NUTS

CH32S

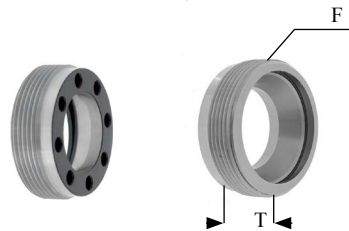


ASSEMBLAGGIO DELLA PINZA
COLLET INSERTING

GHIERE CON FILETTO ESTERNO EXTERNALLY THREADED NUTS

Nm= FORZA DI SERRAGGIO CONSIGLIATA / RECOMMENDED TIGHTENING TORQUE

G11A		M18x1	6
G16A		M24x1	8
G20A		M28x1,5	11
G25A		M32x1,5	12
G32A		M40x1,5	14



GHIERE ESAGONALI CON FILETTO ESTERNO EXTERNALLY THREADED EXAGONAL NUTS

G16A.EX19		M24x1	12
G20A.EX22		M28x1,5	13
G25A.EX27		M32x1,5	16,5
G32A.EX32		M40x1,5	19



CHIAVI PER GHIERE CON FILETTO ESTERNO WRENCHES FOR EXTERNALLY THREADED NUTS

CH11A-Comp.	
CH16A	
CH20A	
CH25A	
CH32A	



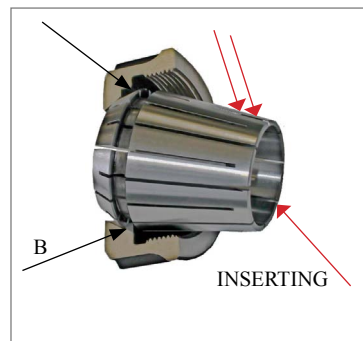
CHIAVI PER GHIERE ESAGONALI CON FILETTO ESTERNO WRENCHES FOR EXTERNALLY THREADED EXAGONAL NUTS

CH16A.EX19	
CH20A.EX22	
CH25A.EX27	
CH32A.EX32	



ASSEMBLAGGIO DELLA PINZA

- 1 - INTRODURRE LA PINZA INCLINATA NELLA GHIERA DI SERRAGGIO PER ACCOPPIARE LA SCALANATURA DELLA PINZA (A) CON LA SEDE ECCENTRICA DELLA GHIERA (B).
- 2 - AVVITARE LA GHIERA CON LA PINZA SUL MANDRINO
- 3 - MONTARE L'UTENSILE E BLOCCARE LA GHIERA CON L'APPOSITA CHIAVE



ESTRAZIONE DELLA PINZA

- 4 - SPINGERE SULLA PARTE POSTERIORE DELLA PINZA FINO A DISINNESTARLA DALLA GHIERA.

COLLET INSERTING

- 1 - INSERT THE COLLET INTO THE COLLET NUT, MAKING SURE THAT THE COLLET GROOVE (A) IS ENGAGED WITH THE EXCENTRIC RING EXTRACTOR (B).
- 2 - ONLY THEN MOUNT COLLET AND COLLET NUT INTO THE HOLDER
- 3 - NEVER LOCK THE NUT WITHOUT A TOOL IN THE COLLET

COLLET REMOVING

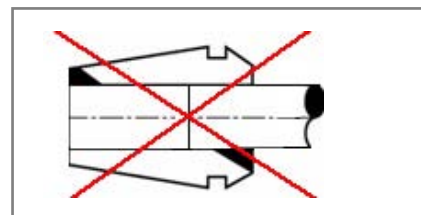
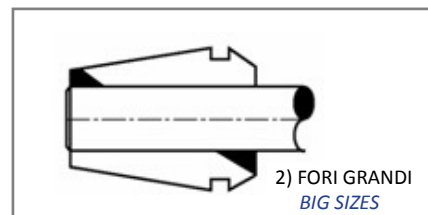
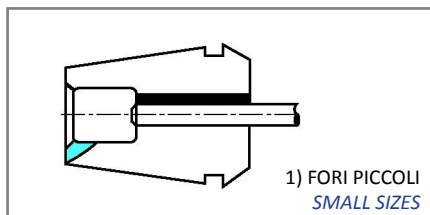
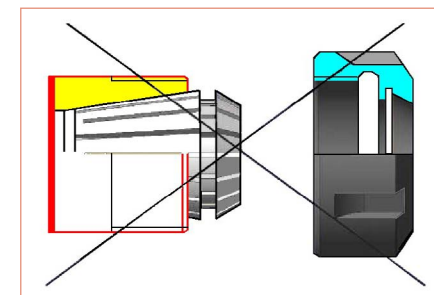
- 4 - PUSH ON THE BACK OF THE COLLET UNTIL IT DISENGAGES FROM THE CLAMPING NUT

ATTENZIONE

LE PINZE ERC DEVONO ESSERE INSERITE NELLE GHIERE PRIMA DI MONTARLE CON L'UTENSILE SUL MANDRINO.
LA MANCATA OSSERVAZIONE DI QUESTA CONDIZIONE CAUSA IL DANNEGGIAMENTO DEFINITIVO DELLA PINZA E DELLA GHIERA DI SERRAGGIO

WARNING

ERC COLLETS MUST BE CONNECTED INTO COLLET NUT BEFORE INSERTING TOOL OR ASSEMBLING ONTO CHUCK.
A WRONG ASSEMBLY MAY SEVERELY DAMAGE THE COLLET AND THE CLAMPING NUT.



ATTENZIONE:

PER EVITARE UNA DEFORMAZIONE PERMANENTE DELLA PINZA NON SI DEVONO MONTARE UTENSILI CON IL GAMBO MAGGIORE DEL DIAMETRO NOMINALE DELLA STESSA. L'UTENSILE DEVE ESSERE BLOCCATO PER TUTTA LA LUNGHEZZA UTILE DI PRESA DELLA PINZA.

- 1) CHIUDERE LA PINZA CON IL VALORE MINIMO DELLA FORZA DI SERRAGGIO CONSIGLIATA
- 2) CHIUDERE LA PINZA CON IL VAORE MAX DELLA FORZA DI SERRAGGIO CONSIGLIATA

WARNING:

MAKE SURE THAT THE CHUCKING LENGHT OF CUTTING TOOL SHANK IS LONGER THAN THE COLLETS BORE LENGHT. NEVER CLAMP OVERSIZE TOOL SHANKS. NON-RESPECT OF THESE INSTRUCTIONS DAMAGE PERMANENTLY THE COLLET.

- 1) CLAMP THE COLLET WITH THE MINIMUM OF THE RECOMMENDED TIGHTENING TORQUE
- 2) CLAMP THE COLLET WITH THE MAXIMUM OF THE RECOMMENDED TIGHTENING TORQUE

EOC

PINZE *COLLETS*



EOC

GHIERE *NUTS*



ERCD

PINZE *COLLETS*



ERCD

GHIERE *NUTS*



ETG

PINZE *COLLETS*



EDA

PINZE *COLLETS*



**PINZE
PER MANDRINI FORTE SERRAGGIO
COLLETS
FOR POWER MILLING CHUCKS**



**PINZE A TENUTA DEL REFRIGERANTE
PER MANDRINI IDRAULICI
SEALED COLLETS
FOR HYDRAULIC CHUCKS**



R8

PINZE *COLLETS*

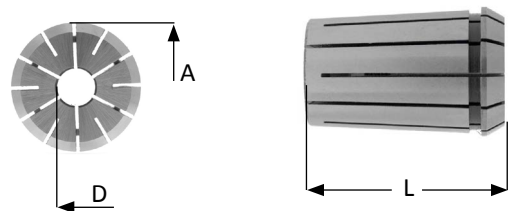


**PINZE A CONO MORSE
MORSE TAPER COLLETS**



**PINZE PORTAUTENSILI
TOOLHOLDING COLLETS**



DIMENSIONI
SIZES

TIPO TYPE	D mm min-max	Capacità serraggio Clamping Range	A	L
EOC16B -415E	2÷16	0,5mm	25,5	40
EOC20B - 4541E	4÷20	0,5mm	29,8	45
EOC25B - 462E	2÷25	0,5mm	35,05	52
EOC32B - 467E	4÷32	0,5mm	43,7	60
EOC40B - 468E	16÷40	0,5mm	52,2	68



Compatibile con le pinze OZ
Compatible with OZ Collets

LE PINZE EOC

- SONO COSTRUITE IN ACCIAIO PER MOLLE.
- SONO TRATTATE TERMICAMENTE PER CONFERIRE UNA DUREZZA DI 44/46 HRC.
- DOPO LA RETTIFICA, VENGONO SOTTOPOSTE AD UN TRATTAMENTO DI SUPERFINITURA CON LO SCOPO DI ARROTONDARE TUTTI GLI SPIGOLI E GARANTIRE UNA RUGOSITA' INFERIORE A Rz 2,5.
- HANNO UNA CAPACITA' DI SERRAGGIO (AL DI SOTTO DEL DIAMETRO NOMINALE) DI 0,5mm.

THE EOC COLLETS

- ARE MANUFACTURED WITH HIGH QUALITY SPRING STEEL.
- ARE TEMPERED FOR A HARDNESS OF 44/46 Rc
- AFTER GRINDING ARE SUPERFINISHED BY A ISF-PROCESS TO GRANT A ROUGHNESS WITHIN Rz 2,5 AND MAKE ALL THE CORNERS OF THE SLOTS ROUNDED.
- THE COLLET COLLAPSE (FROM NOMINAL SIZE) IS 0,5mm.


PINZE CON PRECISIONE STANDARD *
*STANDARD PRECISION COLLETS **

EOC16B.D2	
EOC16B.D3	
EOC16B.D4	
EOC16B.D5	
EOC16B.D6	
EOC16B.D7	
EOC16B.D8	
EOC16B.D9	
EOC16B.D10	
EOC16B.D11	
EOC16B.D12	
EOC16B.D13	
EOC16B.D14	
EOC16B.D15	
EOC16B.D16	



0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.2÷16 x 1mm

BX.EOC16B-15


PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

EOC20B.D3	
EOC20B.D4	
EOC20B.D5	
EOC20B.D6	
EOC20B.D8	
EOC20B.D10	
EOC20B.D12	
EOC20B.D14	
EOC20B.D16	
EOC20B.D18	
EOC20B.D20	



0,010 ÷ 0,015

PINZE CON PRECISIONE STANDARD *
*STANDARD PRECISION COLLETS **

EOC25B.D2	
EOC25B.D3	
EOC25B.D4	
EOC25B.D5	
EOC25B.D6	
EOC25B.D7	
EOC25B.D8	
EOC25B.D9	
EOC25B.D10	
EOC25B.D11	
EOC25B.D12	
EOC25B.D13	
EOC25B.D14	
EOC25B.D15	
EOC25B.D16	
EOC25B.D17	
EOC25B.D18	
EOC25B.D19	
EOC25B.D20	
EOC25B.D21	
EOC25B.D22	
EOC25B.D23	
EOC25B.D24	
EOC25B.D25	



0,010 ÷ 0,015

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLETS SET - ALUMINIUM BOX

D.2÷25 x 1mm

BX.EOC25B-23



* LE PINZE EOC 16-25-32 CON PROGRESSIONE
0,5 mm SONO DISPONIBILI A RICHIESTA

* EOC 16-25-32 COLLETS IN STEPS OF
0,5mm ARE AVAILABLE ON REQUEST


PINZE CON PRECISIONE STANDARD *
*STANDARD PRECISION COLLETS **

EOC32B.D3	
EOC32B.D4	
EOC32B.D5	
EOC32B.D6	
EOC32B.D7	
EOC32B.D8	
EOC32B.D9	
EOC32B.D10	
EOC32B.D11	
EOC32B.D12	
EOC32B.D13	
EOC32B.D14	
EOC32B.D15	
EOC32B.D16	
EOC32B.D17	
EOC32B.D18	
EOC32B.D19	
EOC32B.D20	
EOC32B.D21	
EOC32B.D22	
EOC32B.D23	
EOC32B.D24	
EOC32B.D25	
EOC32B.D26	
EOC32B.D27	
EOC32B.D28	
EOC32B.D29	
EOC32B.D30	
EOC32B.D31	
EOC32B.D32	



0,010 ÷ 0,020

PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

EOC40B.D12	
EOC40B.D13	
EOC40B.D14	
EOC40B.D15	
EOC40B.D16	
EOC40B.D17	
EOC40B.D18	
EOC40B.D19	
EOC40B.D20	
EOC40B.D21	
EOC40B.D22	
EOC40B.D23	
EOC40B.D24	
EOC40B.D25	
EOC40B.D26	
EOC40B.D27	
EOC40B.D28	
EOC40B.D29	
EOC40B.D30	
EOC40B.D31	
EOC40B.D32	
EOC40B.D33	
EOC40B.D34	
EOC40B.D35	
EOC40B.D36	
EOC40B.D37	
EOC40B.D38	
EOC40B.D39	
EOC40B.D40	



0,010 ÷ 0,020

SERIE DI PINZE - CONTENITORE DI LEGNO
SERIE DI PINZE - WOODEN TRAY

D.4÷32 x 1mm

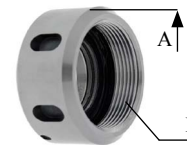
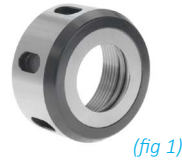
TY.EOC32B-29





GHIERE A SFERE FRICTION BEARING NUTS

GOC16		43	M33x1,5	85
GOC25		60	M48x2	140
GOC32		72	M60x2,5	170



GHIERE SENZA SFERE NUTS WITHOUT FRICTION BEARING

GOC16SF		43	M33x1,5	130
GOC25SF		60	M48x2	200
GOC32SF		72	M60x2,5	220
GOC25SFL		60	M48x2 LEFT	200



CHIAVI A SETTORE PER GHIERE GOC HOOK WRENCHES FOR GOC NUTS

CHO16	
CHO25	
CHO32	



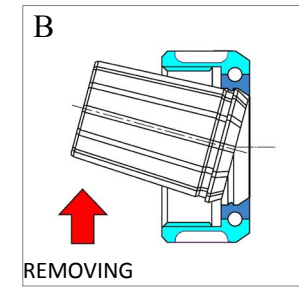
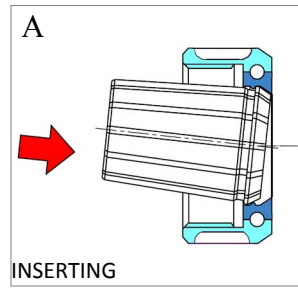
CHIAVI DINAMOMETRICHE A SETTORE PER GHIERE GOC DYNAMOMETRIC WRENCHES FOR GOC NUTS

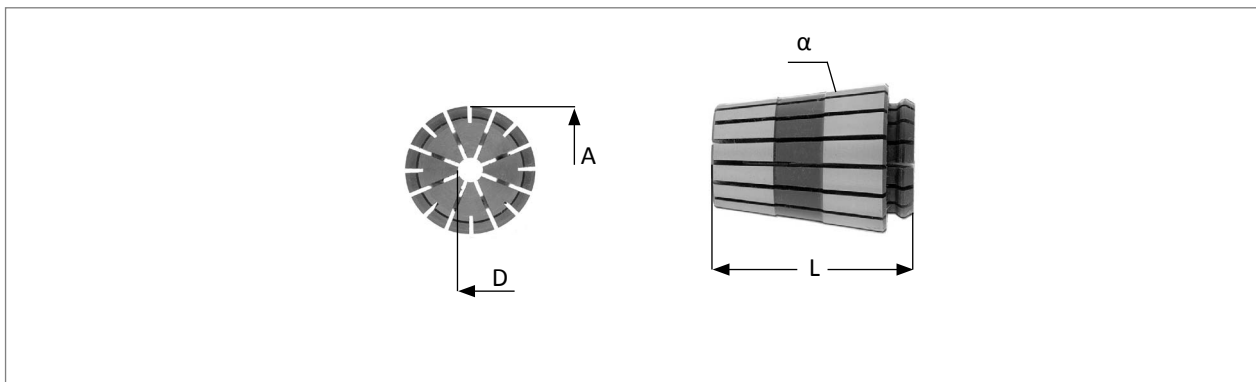
CD25EOC	
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CHIAVI DINAMOMETRICHE A RULLI PER GHIERE GOC DYNAMOMETRIC WRENCHES WITH ROLLER FOR GOC NUTS

CD25EOCR	
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DIMENSIONI SIZES					
TIPO TYPE	D mm min-max	Capacità serraggio Clamping Range	A	α AT3	L
ERCD16	1÷10	0,5÷1mm	17	8°	24
ERCD20	1÷13	0,5÷1mm	21	8°	30,5
ERCD25	1÷16	0,5÷1mm	26	8°	34
ERCD32	2÷20	0,5÷1mm	33	8°	40
ERCD40	3÷30	1mm	41	8°	46

Compatibile con le pinze ERC - DIN9499B
Compatible with ERC Collets - DIN9499B





PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERCD16.D2	
ERCD16.D3	
ERCD16.D4	
ERCD16.D5	
ERCD16.D6	
ERCD16.D7	
ERCD16.D8	
ERCD16.D9	
ERCD16.D10	
0,010	



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.2÷10 x 1mm

BX.ERCD16-10



PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERCD20.D2	
ERCD20.D3	
ERCD20.D4	
ERCD20.D5	
ERCD20.D6	
ERCD20.D7	
ERCD20.D8	
ERCD20.D9	
ERCD20.D10	
ERCD20.D11	
ERCD20.D12	
ERCD20.D13	
0,010	



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.2÷13 x 1mm

BX.ERCD20-12



PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERCD25.D3	
ERCD25.D4	
ERCD25.D5	
ERCD25.D6	
ERCD25.D7	
ERCD25.D8	
ERCD25.D9	
ERCD25.D10	
ERCD25.D11	
ERCD25.D12	
ERCD25.D13	
ERCD25.D14	
ERCD25.D15	
ERCD25.D16	
0,010	



SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.3÷16 x 1mm

BX.ERCD25-14





PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERCD32.D3	
ERCD32.D4	
ERCD32.D5	
ERCD32.D6	
ERCD32.D7	
ERCD32.D8	
ERCD32.D9	
ERCD32.D10	
ERCD32.D11	
ERCD32.D12	
ERCD32.D13	
ERCD32.D14	
ERCD32.D15	
ERCD32.D16	
ERCD32.D17	
ERCD32.D18	
ERCD32.D19	
ERCD32.D20	



0,010 ÷ 0,020

SERIE DI PINZE - CASSETTA DI ALLUMINIO
COLLET SETS - ALUMINIUM BOX

D.3÷20 x 1mm



BX.ERCD32-18

PINZE CON PRECISIONE STANDARD
STANDARD PRECISION COLLETS

ERCD40.D4	
ERCD40.D5	
ERCD40.D6	
ERCD40.D7	
ERCD40.D8	
ERCD40.D9	
ERCD40.D10	
ERCD40.D11	
ERCD40.D12	
ERCD40.D13	
ERCD40.D14	
ERCD40.D15	
ERCD40.D16	
ERCD40.D17	
ERCD40.D18	
ERCD40.D19	
ERCD40.D20	
ERCD40.D21	
ERCD40.D22	
ERCD40.D23	
ERCD40.D24	
ERCD40.D25	
ERCD40.D26	

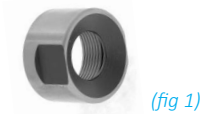


0,010 ÷ 0,020



GHIERE MINI
MINI NUTS

G16DHM				
G20DHM		30÷5	M20x1	18÷28
G25DHM		36	M30x1	22÷32



GHIERE STANDARD
STANDARD NUTS

G16DH		32	M22x1,5	15÷50
G20DH		35	M25x1,5	16÷75
G25DH		42	M32x1,5	25÷100
G32DH		50	M40x1,5	25÷140
G40DH		63	M50x1,5	60÷170



CHIAVI PER GHIERE MINI
WRENCHES FOR MINI NUTS

CH16.DHM22	
CH20.DHM28	
CH25.DHM34	



CHIAVI PER GHIERE STANDARD
WRENCHES FOR STANDARD NUTS

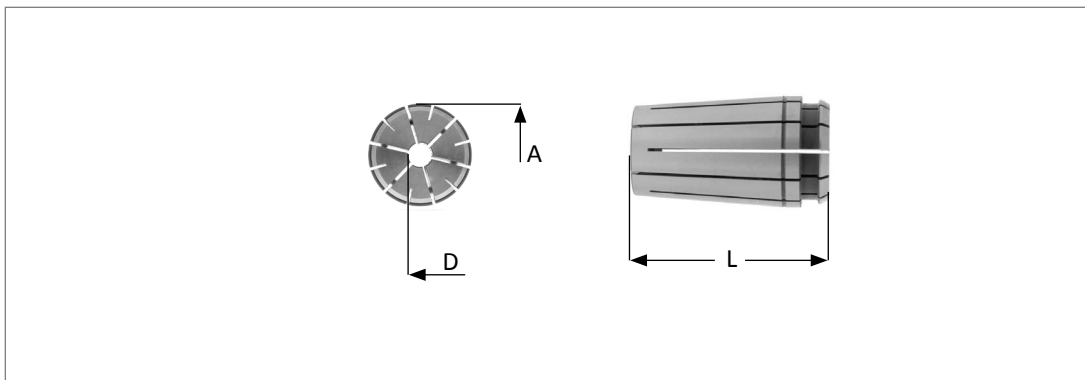
CH16S	
CH20S	
CH25S	
CH32S	
CH40S	



CHIAVI DINAMOMETRICHE INTEGRALI
PER GHIERE STANDARD
DYNAMOMETRIC WRENCHES FOR STANDARD NUTS

CD16S	
CD20S	
CD25S	
CD32S	
CD40S	





DIMENSIONI METRICHE

METRIC SIZES

TIPO <i>TYPE</i>	D min-max	Capacità serraggio <i>Clamping Range</i>	A	L
ETG100 - 464E	4-25	0,4mm	35,02	60,32

DIMENSIONI IN POLLICI

INCH SIZES

TIPO <i>TYPE</i>	D min-max	Capacità serraggio <i>Clamping Range</i>	A	L
ETG75 - 420E	3/32 - 3/4	1/64"	1.062	1.844
ETG100 - 464E	3/32 - 1"	1/64"	1.379	2.375
ETG150 - 466E	1/2 - 1 1/2	1/64"	2.00	3.00

Le pinze ETG sono adatte per i mandrini ERICKSON tipo "TG"

ETG Collets are suitable for ERICKSON chucks type "TG"



ERICKSON IS A TRADEMARK OF KENNAMETAL AND IS USED HERE ONLY FOR IDENTIFICATION PURPOSE



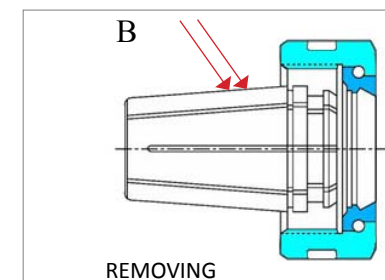
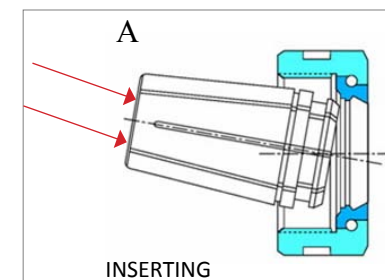
PINZE ETG100 METRICHE
ETG100 SINGLE ANGLE COLLETS METRIC SIZES

ETG100.D4	
ETG100.D5	
ETG100.D6	
ETG100.D7	
ETG100.D8	
ETG100.D9	
ETG100.D10	
ETG100.D11	
ETG100.D12	
ETG100.D13	
ETG100.D14	
ETG100.D15	
ETG100.D16	
ETG100.D17	
ETG100.D18	
ETG100.D19	
ETG100.D20	
ETG100.D21	
ETG100.D22	
ETG100.D23	
ETG100.D24	
ETG100.D25	



PINZE ETG75 IN POLLICI
ETG75 SINGLE ANGLE COLLETS INCH SIZES

ETG75.D3/32	
ETG75.D7/64	
ETG75.D1/8	
ETG75.D9/64	
ETG75.D5/32	
ETG75.D11/64	
ETG75.D3/16	
ETG75.D13/64	
ETG75.D7/32	
ETG75.D15/64	
ETG75.D1/4	
ETG75.D17/64	
ETG75.D9/32	
ETG75.D19/64	
ETG75.D5/16	
ETG75.D21/64	
ETG75.D11/32	
ETG75.D23/64	
ETG75.D3/8	
ETG75.D25/64	
ETG75.D13/32	
ETG75.D27/64	
ETG75.D7/16	
ETG75.D29/64	
ETG75.D15/32	
ETG75.D31/64	
ETG75.D1/2	
ETG75.D33/64	
ETG75.D17/32	
ETG75.D35/64	
ETG75.D9/16	
ETG75.D37/64	
ETG75.D19/32	
ETG75.D39/64	
ETG75.D5/8	
ETG75.D41/64	
ETG75.D21/32	
ETG75.D43/64	
ETG75.D11/16	
ETG75.D45/64	
ETG75.D23/32	
ETG75.D47/64	
ETG75.D3/4	





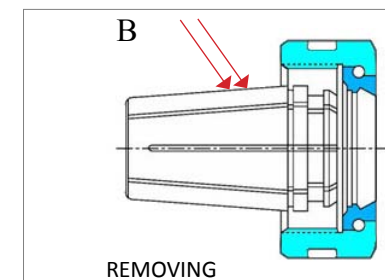
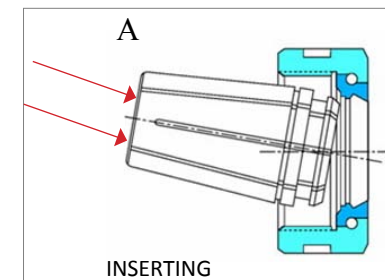
PINZE ETG100 IN POLLICI
ETG100 SINGLE ANGLE COLLETS INCH SIZES

ETG100.D3/32	
ETG100.D7/64	
ETG100.D1/8	
ETG100.D9/64	
ETG100.D5/32	
ETG100.D11/64	
ETG100.D3/16	
ETG100.D13/64	
ETG100.D7/32	
ETG100.D15/64	
ETG100.D1/4	
ETG100.D17/64	
ETG100.D9/32	
ETG100.D19/64	
ETG100.D5/16	
ETG100.D21/64	
ETG100.D11/32	
ETG100.D23/64	
ETG100.D3/8	
ETG100.D25/64	
ETG100.D13/32	
ETG100.D27/64	
ETG100.D7/16	
ETG100.D29/64	
ETG100.D15/32	
ETG100.D31/64	
ETG100.D1/2	
ETG100.D33/64	
ETG100.D17/32	
ETG100.D35/64	



PINZE ETG100 IN POLLICI
ETG100 SINGLE ANGLE COLLETS INCH SIZES

ETG100.D9/16	
ETG100.D37/64	
ETG100.D19/32	
ETG100.D39/64	
ETG100.D5/8	
ETG100.D41/64	
ETG100.D21/32	
ETG100.D43/64	
ETG100.D11/16	
ETG100.D45/64	
ETG100.D23/32	
ETG100.D47/64	
ETG100.D3/4	
ETG100.D49/64	
ETG100.D25/32	
ETG100.D51/64	
ETG100.D13/16	
ETG100.D53/64	
ETG100.D27/32	
ETG100.D55/64	
ETG100.D7/8	
ETG100.D57/64	
ETG100.D29/32	
ETG100.D59/64	
ETG100.D15/16	
ETG100.D61/64	
ETG100.D31/32	
ETG100.D63/64	
ETG100.D1"	





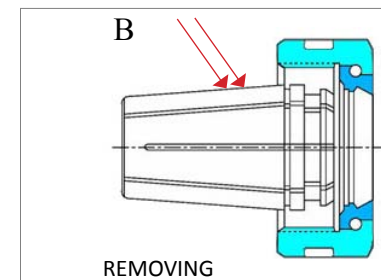
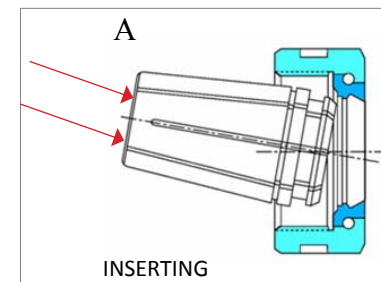
PINZE ETG150 IN POLLICI
ETG150 SINGLE ANGLE COLLETS INCH SIZES

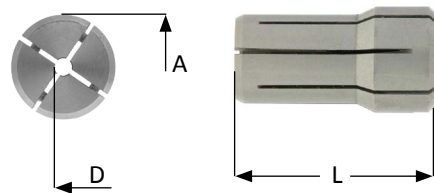
ETG150.D1/2	
ETG150.D33/64	
ETG150.D17/32	
ETG150.D35/64	
ETG150.D9/16	
ETG150.D37/64	
ETG150.D19/32	
ETG150.D39/64	
ETG150.D5/8	
ETG150.D41/64	
ETG150.D21/32	
ETG150.D43/64	
ETG150.D11/16	
ETG150.D45/64	
ETG150.D23/32	
ETG150.D47/64	
ETG150.D3/4	
ETG150.D49/64	
ETG150.D25/32	
ETG150.D51/64	
ETG150.D13/16	
ETG150.D53/64	
ETG150.D27/32	
ETG150.D55/64	
ETG150.D7/8	
ETG150.D57/64	
ETG150.D29/32	
ETG150.D59/64	
ETG150.D15/16	
ETG150.D61/64	
ETG150.D31/32	
ETG150.D63/64	
ETG150.D1"	



PINZE ETG150 IN POLLICI
ETG150 SINGLE ANGLE COLLETS INCH SIZES

ETG150.D1 1/64	
ETG150.D1 1/32	
ETG150.D1 3/64	
ETG150.D1 1/16	
ETG150.D1 5/64	
ETG150.D1 3/32	
ETG150.D1 7/64	
ETG150.D1 1/8	
ETG150.D1 9/64	
ETG150.D1 5/32	
ETG150.D1 11/64	
ETG150.D1 3/16	
ETG150.D1 13/64	
ETG150.D1 7/32	
ETG150.D1 15/64	
ETG150.D1 1/4	
ETG150.D1 17/64	
ETG150.D1 9/32	
ETG150.D1 19/64	
ETG150.D1 5/16	
ETG150.D1 21/64	
ETG150.D1 11/32	
ETG150.D1 23/64	
ETG150.D1 3/8	
ETG150.D1 25/64	
ETG150.D1 13/32	
ETG150.D1 27/64	
ETG150.D1 7/16	
ETG150.D1 29/64	
ETG150.D1 15/32	
ETG150.D1 31/64	
ETG150.D1 1/2	



**DIMENSIONI METRICHE***METRIC SIZES*

TIPO TYPE	D mm min-max	Capacità serraggio Clamping Range	A	L
EDA300 - 416E	1,5÷6	0,8mm	9,52	25,40
EDA200 - 417E	1,5÷10	0,8mm	13,69	30
EDA100 - 418E	2÷14,5	0,8mm	19,53	36,3
EDA180 - 419E	2÷20	0,8mm	26,03	41,4

DIMENSIONI IN POLLICI*INCH SIZES*

TIPO TYPE	D mm min-max	Capacità serraggio Clamping Range	A	L
EDA300 - 416E	1/16÷1/4	.031"	.375	1.00
EDA200 - 417E	1/16÷25/64	.031"	.539	1.18
EDA100 - 418E	1/16÷9/16	.031"	.769	1.43
EDA180 - 419E	1/16÷49/64	.031"	1.025	1.63



ERICKSON IS A TRADEMARK OF KENNAMETAL AND IS USED HERE ONLY FOR IDENTIFICATION PURPOSE

Le pinze EDA sono adatte per i mandrini ERICKSON tipo "DA"
EDA Collet are suitable for ERICKSON chucks type "DA"



PINZE EDA300 METRICHE
EDA300 DOUBLE ANGLE COLLETS METRIC SIZES

EDA300.D1,5	
EDA300.D2	
EDA300.D2,5	
EDA300.D3	
EDA300.D3,5	
EDA300.D4	
EDA300.D4,5	
EDA300.D5	
EDA300.D5,5	
EDA300.D6	



PINZE EDA100 METRICHE
EDA100 DOUBLE ANGLE COLLETS METRIC SIZES

EDA100.D2	
EDA100.D2,5	
EDA100.D3	
EDA100.D3,5	
EDA100.D4	
EDA100.D4,5	
EDA100.D5	
EDA100.D5,5	
EDA100.D6	
EDA100.D6,5	
EDA100.D7	
EDA100.D7,5	
EDA100.D8	
EDA100.D8,5	
EDA100.D9	
EDA100.D9,5	
EDA100.D10	
EDA100.D10,5	
EDA100.D11	
EDA100.D11,5	
EDA100.D12	
EDA100.D12,5	
EDA100.D13	
EDA100.D13,5	
EDA100.D14	
EDA100.D14,5	



PINZE EDA200 METRICHE
EDA200 DOUBLE ANGLE COLLETS METRIC SIZES

EDA200.D1,5	
EDA200.D2	
EDA200.D2,5	
EDA200.D3	
EDA200.D3,5	
EDA200.D4	
EDA200.D4,5	
EDA200.D5	
EDA200.D5,5	
EDA200.D6	
EDA200.D6,5	
EDA200.D7	
EDA200.D7,5	
EDA200.D8	
EDA200.D8,5	
EDA200.D9	
EDA200.D9,5	
EDA200.D10	




PINZE EDA180 METRICHE
EDA180 DOUBLE ANGLE COLLETS METRIC SIZES

EDA180.D2	
EDA180.D2,5	
EDA180.D3	
EDA180.D3,5	
EDA180.D4	
EDA180.D4,5	
EDA180.D5	
EDA180.D5,5	
EDA180.D6	
EDA180.D6,5	
EDA180.D7	
EDA180.D7,5	
EDA180.D8	
EDA180.D8,5	
EDA180.D9	
EDA180.D9,5	
EDA180.D10	
EDA180.D10,5	
EDA180.D11	
EDA180.D11,5	
EDA180.D12	
EDA180.D12,5	
EDA180.D13	
EDA180.D13,5	
EDA180.D14	
EDA180.D14,5	
EDA180.D15	
EDA180.D15,5	
EDA180.D16	
EDA180.D16,5	
EDA180.D17	
EDA180.D17,5	
EDA180.D18	
EDA180.D18,5	
EDA180.D19	
EDA180.D19,5	
EDA180.D20	


PINZE EDA300 IN POLLICI
EDA300 DOUBLE ANGLE COLLETS INCH SIZES

EDA300-D1/16	
EDA300-D5/64	
EDA300-D3/32	
EDA300-D7/64	
EDA300-D1/8	
EDA300-D9/64	
EDA300-D5/32	
EDA300-D11/64	
EDA300-D3/16	
EDA300-D13/64	
EDA300-D7/32	
EDA300-D15/64	
EDA300-D1/4	


PINZE EDA200 IN POLLICI
EDA200 DOUBLE ANGLE COLLETS INCH SIZES

EDA200-D1/16	
EDA200-D5/64	
EDA200-D3/32	
EDA200-D7/64	
EDA200-D1/8	
EDA200-D9/64	
EDA200-D5/32	
EDA200-D11/64	
EDA200-D3/16	
EDA200-D13/64	
EDA200-D7/32	
EDA200-D15/64	
EDA200-D1/4	
EDA200-D17/64	
EDA200-D9/32	
EDA200-D19/64	
EDA200-D5/16	
EDA200-D21/64	
EDA200-D11/32	
EDA200-D23/64	
EDA200-D3/8	
EDA200-D25/64	





PINZE EDA100 IN POLLICI
EDA100 DOUBLE ANGLE COLLETS INCH SIZES

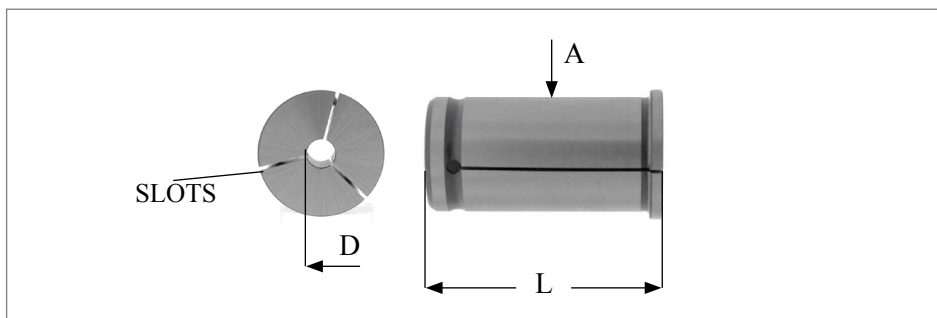
EDA100-D1/16	
EDA100-D5/64	
EDA100-D3/32	
EDA100-D7/64	
EDA100-D1/8	
EDA100-D9/64	
EDA100-D5/32	
EDA100-D11/64	
EDA100-D3/16	
EDA100-D13/64	
EDA100-D7/32	
EDA100-D15/64	
EDA100-D1/4	
EDA100-D17/64	
EDA100-D9/32	
EDA100-D19/64	
EDA100-D5/16	
EDA100-D21/64	
EDA100-D11/32	
EDA100-D23/64	
EDA100-D3/8	
EDA100-D25/64	
EDA100-D13/32	
EDA100-D27/64	
EDA100-D7/16	
EDA100-D29/64	
EDA100-D15/32	
EDA100-D31/64	
EDA100-D1/2	
EDA100-D33/64	
EDA100-D17/32	
EDA100-D35/64	
EDA100-D9/16	



PINZE EDA180 IN POLLICI
EDA180 DOUBLE ANGLE COLLETS INCH SIZES

EDA180-D1/16	
EDA180-D5/64	
EDA180-D3/32	
EDA180-D7/64	
EDA180-D1/8	
EDA180-D9/64	
EDA180-D5/32	
EDA180-D11/64	
EDA180-D3/16	
EDA180-D13/64	
EDA180-D7/32	
EDA180-D15/64	
EDA180-D1/4	
EDA180-D17/64	
EDA180-D9/32	
EDA180-D19/64	
EDA180-D5/16	
EDA180-D21/64	
EDA180-D11/32	
EDA180-D23/64	
EDA180-D3/8	
EDA180-D25/64	
EDA180-D13/32	
EDA180-D27/64	
EDA180-D7/16	
EDA180-D29/64	
EDA180-D15/32	
EDA180-D31/64	
EDA180-D1/2	
EDA180-D33/64	
EDA180-D17/32	
EDA180-D35/64	
EDA180-D9/16	
EDA180-D37/64	
EDA180-D19/32	
EDA180-D39/64	
EDA180-D5/8	
EDA180-D41/64	
EDA180-D21/32	
EDA180-D43/64	
EDA180-D11/16	
EDA180-D45/64	
EDA180-D23/32	
EDA180-D47/64	
EDA180-D3/4	
EDA180-D49/64	



DIMENSIONI
SIZES

TIPO TYPE	D mm min-max	A	L	TAGLI SLOTS
3SR20	3÷16	20	54	3
3SR32	4÷25	32	64	3
4SR20	3÷16	20	54	4
4SR32	6÷25	32	64	4
SR20	3÷16	20	52,5	6
SR32	6÷25	32	63	6

PINZE PER MANDRINI A FORTE SERRAGGIO
COLLETS FOR POWER MILLING CHUCKS

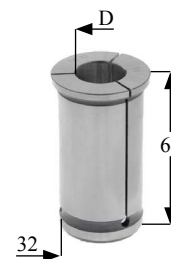
3SR20.D3	
3SR20.D4	
3SR20.D5	
3SR20.D6	
3SR20.D7	
3SR20.D8	
3SR20.D9	
3SR20.D10	
3SR20.D11	
3SR20.D12	
3SR20.D13	
3SR20.D14	
3SR20.D15	
3SR20.D16	

SERIE DI PINZE
COLLET SETS
D.6-8-10-12-16

3SR20-5.SET	
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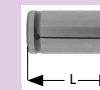
PINZE PER MANDRINI A FORTE SERRAGGIO
COLLETS FOR POWER MILLING CHUCKS

3SR32.D4	
3SR32.D5	
3SR32.D6	
3SR32.D7	
3SR32.D8	
3SR32.D9	
3SR32.D10	
3SR32.D11	
3SR32.D12	
3SR32.D13	
3SR32.D14	
3SR32.D15	
3SR32.D16	
3SR32.D17	
3SR32.D18	
3SR32.D19	
3SR32.D20	
3SR32.D21	
3SR32.D22	
3SR32.D23	
3SR32.D24	
3SR32.D25	

SERIE DI PINZE
COLLET SETS
D.6-8-10-12-16-20-25

3SR32-7.SET	
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**PINZE A TENUTA DEL REFRIGERANTE
PER MANDRINI A FORTE SERRAGGIO**
SEALED COLLETS FOR POWER MILLING CHUCKS

4SR20.D3	
4SR20.D4	
4SR20.D5	
4SR20.D6	
4SR20.D8	
4SR20.D10	
4SR20.D12	
4SR20.D16	



**SERIE DI PINZE
COLLET SETS**
D.6-8-10-12-16

4SR20-5.SET	
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**PINZE A TENUTA DEL REFRIGERANTE
PER MANDRINI A FORTE SERRAGGIO**
SEALED COLLETS FOR POWER MILLING CHUCKS

4SR32.D6	
4SR32.D8	
4SR32.D10	
4SR32.D12	
4SR32.D16	
4SR32.D20	
4SR32.D25	



**SERIE DI PINZE
COLLET SETS**
D.6-8-10-12-16-20-25

4SR32-7.SET	
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Mandrini HSK
**FORTE SERRAGGIO
POWER MILLING**
HSK chucks



Mandrini TC
**FORTE SERRAGGIO
POWER MILLING**
TC chucks



Mandrini BT
**FORTE SERRAGGIO
POWER MILLING**
BT chucks

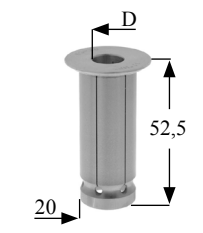
**PINZE A TENUTA DEL REFRIGERANTE
PER MANDRINI IDRAULICI**
SEALED COLLETS FOR HYDRAULIC CHUCKS

SR20.D3	
SR20.D4	
SR20.D5	
SR20.D6	
SR20.D7	
SR20.D8	
SR20.D9	
SR20.D10	
SR20.D11	
SR20.D12	
SR20.D13	
SR20.D14	
SR20.D15	
SR20.D16	

↗ 0,005

**SERIE DI PINZE
COLLET SETS**
D.6-8-10-12-16

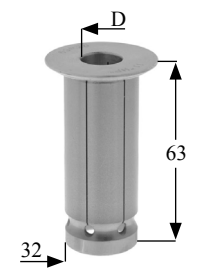
SR20-5.SET	
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**PINZE A TENUTA DEL REFRIGERANTE
PER MANDRINI IDRAULICI**
SEALED COLLETS FOR HYDRAULIC CHUCKS

SR32.D6	
SR32.D8	
SR32.D10	
SR32.D12	
SR32.D14	
SR32.D16	
SR32.D20	
SR32.D25	

↗ 0,005



Mandrini HSK
**IDRAULICI
HYDRAULIC**
HSK chucks



Mandrini TC
**IDRAULICI
HYDRAULIC**
TC chucks



Mandrini BT
**IDRAULICI
HYDRAULIC**
BT chucks

PINZE R8 METRICHE
R8 COLLETS METRIC SIZES

R8-D3	
R8-D4	
R8-D5	
R8-D6	
R8-D7	
R8-D8	
R8-D9	
R8-D10	
R8-D11	
R8-D12	
R8-D13	
R8-D14	
R8-D15	
R8-D16	
R8-D17	
R8-D18	
R8-D19	
R8-D20	



PINZE R8 IN POLLICI
R8 COLLETS INCH SIZES

R8-D1/8	
R8-D5/32	
R8-D3/16	
R8-D7/32	
R8-D1/4	
R8-D9/32	
R8-D5/16	
R8-D11/32	
R8-D3/8	
R8-D13/32	
R8-D7/16	
R8-D15/32	
R8-D1/2	
R8-D17/32	
R8-D9/16	
R8-D19/32	
R8-D5/8	
R8-D21/32	
R8-D11/16	
R8-D23/32	
R8-D3/4	



SERIE DI PINZE
COLLET SETS

D.6-8-10-12-14-16-20

TY.R8-8M

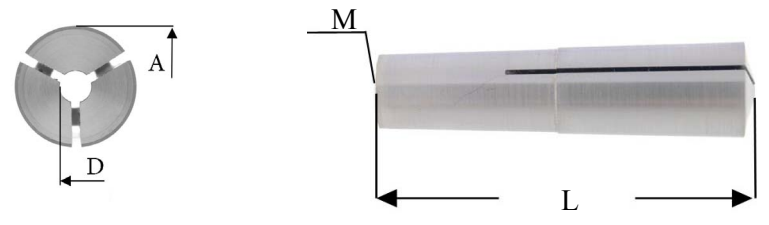


SERIE DI PINZE
COLLET SETS

D.1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4

TY.R8-11P





DIMENSIONI
SIZES

TIPO TYPE	D mm min-max	A	L	Thread M
CP-CM2	3÷13	18	69	M10
CP-CM3	3÷18	24,10	86	M12
CP-CM4	4÷25	31,6	109	M16

PINZE A CONO MORSE - CM2
MORSE TAPER COLLETS - CM2

CP-CM2.A3	
CP-CM2.A4	
CP-CM2.A5	
CP-CM2.A6	
CP-CM2.A7	
CP-CM2.A8	
CP-CM2.A9	
CP-CM2.A10	
CP-CM2.A11	
CP-CM2.A12	
CP-CM2.A13	



PINZE A CONO MORSE - CM3
MORSE TAPER COLLETS - CM3

CP-CM3.A3	
CP-CM3.A4	
CP-CM3.A5	
CP-CM3.A6	
CP-CM3.A7	
CP-CM3.A8	
CP-CM3.A9	
CP-CM3.A10	
CP-CM3.A11	
CP-CM3.A12	
CP-CM3.A13	
CP-CM3.A14	
CP-CM3.A15	
CP-CM3.A16	
CP-CM3.A17	
CP-CM3.A18	



PINZE A CONO MORSE - CM4
MORSE TAPER COLLETS - CM4

CP-CM4.A4	
CP-CM4.A5	
CP-CM4.A6	
CP-CM4.A7	
CP-CM4.A8	
CP-CM4.A9	
CP-CM4.A10	
CP-CM4.A11	
CP-CM4.A12	
CP-CM4.A13	
CP-CM4.A14	
CP-CM4.A15	
CP-CM4.A16	
CP-CM4.A17	
CP-CM4.A18	
CP-CM4.A19	
CP-CM4.A20	
CP-CM4.A21	
CP-CM4.A22	
CP-CM4.A23	
CP-CM4.A24	
CP-CM4.A25	



PINZE PORTAUTENSILI 23F
TOOLHOLDING COLLETS 23F

23F D.3L	
23F D.4L	
23F D.5L	
23F D.6L	
23F D.7L	
23F D.8L	
23F D.9L	
23F D.10L	
23F D.11L	
23F D.12L	
23F D.13L	
23F D.14L	
23F D.15L	
23F D.16L	
23F D.17L	
23F D.18L	
23F D.19L	



DIN 6343

PINZE COLLETS



W20 - W25

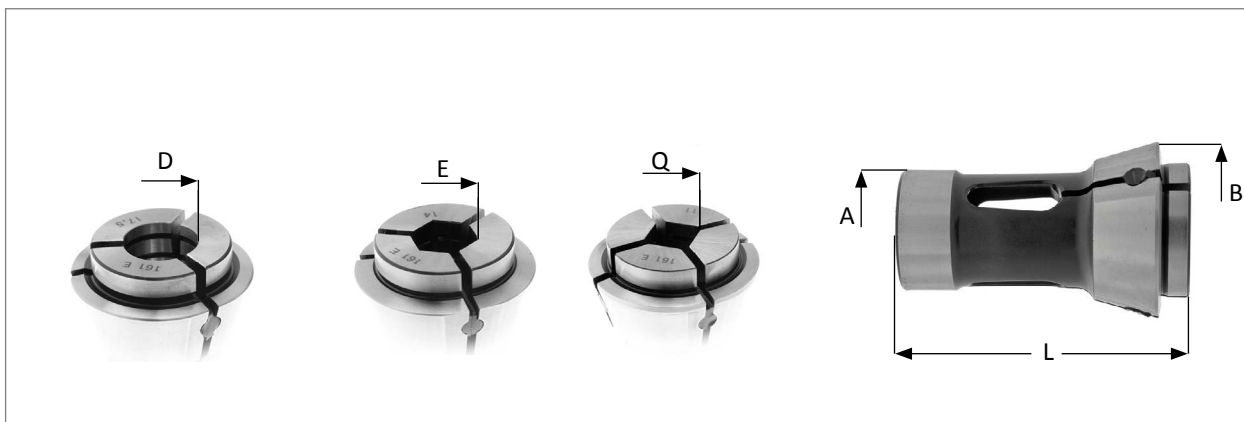
PINZE COLLETS



5C

PINZE COLLETS





DIMENSIONI
SIZES

	D max	E max	Q max	A	B	L
CP-A51 / 140 E	16	14	12	22	30	55
CP-A84 / 161E	25	22	18	32	45	75
CP-A117 / 173E	42	36	30	48	60	94
CP-A127 / 177E	52			58	70	94
CP-A133 / 185E	60	45	40	66	84	110





PINZE TONDE
ROUND COLLETS

CP-A51/140E D.3L	
CP-A51/140E D.4L	
CP-A51/140E D.5L	
CP-A51/140E D.6L	
CP-A51/140E D.7L	
CP-A51/140E D.8L	
CP-A51/140E D.9R	
CP-A51/140E D.10R	
CP-A51/140E D.11R	
CP-A51/140E D.12R	
CP-A51/140E D.13R	
CP-A51/140E D.14R	
CP-A51/140E D.15R	
CP-A51/140E D.16R	

L: LISCIO *SMOOTH*
R: RIGATO *GROOVED*



PINZE ESAGONALI
EXAGONAL NUTS

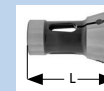
CP-A51/140E E.4	
CP-A51/140E E.5	
CP-A51/140E E.6	
CP-A51/140E E.7	
CP-A51/140E E.8	
CP-A51/140E E.9	
CP-A51/140E E.10	
CP-A51/140E E.11	
CP-A51/140E E.12	
CP-A51/140E E.13	
CP-A51/140E E.14	



PINZE QUADRE
SQUARE COLLETS

CP-A51/140E Q.6	
CP-A51/140E Q.7	
CP-A51/140E Q.8	
CP-A51/140E Q.9	
CP-A51/140E Q.10	
CP-A51/140E Q.11	
CP-A51/140E Q.12	





PINZE TONDE ROUND COLLETS

CP-A84/161E D.3L	
CP-A84/161E D.4L	
CP-A84/161E D.5L	
CP-A84/161E D.6L	
CP-A84/161E D.7L	
CP-A84/161E D.8L	
CP-A84/161E D.9R	
CP-A84/161E D.10R	
CP-A84/161E D.11R	
CP-A84/161E D.12R	
CP-A84/161E D.13R	
CP-A84/161E D.14R	
CP-A84/161E D.15R	
CP-A84/161E D.16R	
CP-A84/161E D.17R	
CP-A84/161E D.18R	
CP-A84/161E D.19R	
CP-A84/161E D.20R	
CP-A84/161E D.21R	
CP-A84/161E D.22R	
CP-A84/161E D.23R	
CP-A84/161E D.24R	
CP-A84/161E D.25R	

L: LISCIO *SMOOTH*
R: RIGATO *GROOVED*



PINZE ESAGONALI EXAGONAL NUTS

CP-A84/161E E.4	
CP-A84/161E E.5	
CP-A84/161E E.6	
CP-A84/161E E.7	
CP-A84/161E E.8	
CP-A84/161E E.9	
CP-A84/161E E.10	
CP-A84/161E E.11	
CP-A84/161E E.12	
CP-A84/161E E.13	
CP-A84/161E E.14	
CP-A84/161E E.15	
CP-A84/161E E.16	
CP-A84/161E E.17	
CP-A84/161E E.18	
CP-A84/161E E.19	
CP-A84/161E E.20	
CP-A84/161E E.21	
CP-A84/161E E.22	



PINZE QUADRE SQUARE COLLETS

CP-A84/161E Q.4	
CP-A84/161E Q.5	
CP-A84/161E Q.6	
CP-A84/161E Q.7	
CP-A84/161E Q.8	
CP-A84/161E Q.9	
CP-A84/161E Q.10	
CP-A84/161E Q.11	
CP-A84/161E Q.12	
CP-A84/161E Q.13	
CP-A84/161E Q.14	
CP-A84/161E Q.15	
CP-A84/161E Q.16	
CP-A84/161E Q.17	
CP-A84/161E Q.18	





PINZE TONDE
ROUND COLLETS

CP-A117/173E D.4L	
CP-A117/173E D.5L	
CP-A117/173E D.6L	
CP-A117/173E D.7L	
CP-A117/173E D.8L	
CP-A117/173E D.9R	
CP-A117/173E D.10R	
CP-A117/173E D.11R	
CP-A117/173E D.12R	
CP-A117/173E D.13R	
CP-A117/173E D.14R	
CP-A117/173E D.15R	
CP-A117/173E D.16R	
CP-A117/173E D.17R	
CP-A117/173E D.18R	
CP-A117/173E D.19R	
CP-A117/173E D.20R	
CP-A117/173E D.21R	
CP-A117/173E D.22R	
CP-A117/173E D.23R	
CP-A117/173E D.24R	
CP-A117/173E D.25R	
CP-A117/173E D.26R	
CP-A117/173E D.27R	
CP-A117/173E D.28R	
CP-A117/173E D.29R	
CP-A117/173E D.30R	
CP-A117/173E D.31R	
CP-A117/173E D.32R	
CP-A117/173E D.33R	
CP-A117/173E D.34R	
CP-A117/173E D.35R	
CP-A117/173E D.36R	
CP-A117/173E D.37R	
CP-A117/173E D.38R	
CP-A117/173E D.39R	
CP-A117/173E D.40R	
CP-A117/173E D.41R	
CP-A117/173E D.42R	

L: LISCIO *SMOOTH*
R: RIGATO *GROOVED*



PINZE ESAGONALI
EXAGONAL NUTS

CP-A117/173E E.5	
CP-A117/173E E.6	
CP-A117/173E E.7	
CP-A117/173E E.8	
CP-A117/173E E.9	
CP-A117/173E E.10	
CP-A117/173E E.11	
CP-A117/173E E.12	
CP-A117/173E E.13	
CP-A117/173E E.14	
CP-A117/173E E.15	
CP-A117/173E E.16	
CP-A117/173E E.17	
CP-A117/173E E.18	
CP-A117/173E E.19	
CP-A117/173E E.20	
CP-A117/173E E.21	
CP-A117/173E E.22	
CP-A117/173E E.23	
CP-A117/173E E.24	
CP-A117/173E E.25	
CP-A117/173E E.26	
CP-A117/173E E.27	
CP-A117/173E E.28	
CP-A117/173E E.29	
CP-A117/173E E.30	
CP-A117/173E E.31	
CP-A117/173E E.32	
CP-A117/173E E.33	
CP-A117/173E E.34	
CP-A117/173E E.35	
CP-A117/173E E.36	



PINZE QUADRE
SQUARE COLLETS

CP-A117/173E Q.8	
CP-A117/173E Q.9	
CP-A117/173E Q.10	
CP-A117/173E Q.11	
CP-A117/173E Q.12	
CP-A117/173E Q.13	
CP-A117/173E Q.14	
CP-A117/173E Q.15	
CP-A117/173E Q.16	
CP-A117/173E Q.17	
CP-A117/173E Q.18	
CP-A117/173E Q.20	
CP-A117/173E Q.22	
CP-A117/173E Q.24	
CP-A117/173E Q.25	
CP-A117/173E Q.26	
CP-A117/173E Q.28	
CP-A117/173E Q.30	





PINZE TONDE
ROUND COLLETS

L: LISCIO *SMOOTH*
R: RIGATO *GROOVED*

CP-A127/177E D.6L	
CP-A127/177E D.7L	
CP-A127/177E D.8L	
CP-A127/177E D.9L	
CP-A127/177E D.10R	
CP-A127/177E D.11R	
CP-A127/177E D.12R	
CP-A127/177E D.13R	
CP-A127/177E D.14R	
CP-A127/177E D.15R	
CP-A127/177E D.16R	
CP-A127/177E D.17R	
CP-A127/177E D.18R	
CP-A127/177E D.19R	
CP-A127/177E D.20R	
CP-A127/177E D.21R	
CP-A127/177E D.22R	
CP-A127/177E D.23R	
CP-A127/177E D.24R	
CP-A127/177E D.25R	
CP-A127/177E D.26R	
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CP-A127/177E D.28R	
CP-A127/177E D.29R	
CP-A127/177E D.30R	
CP-A127/177E D.31R	
CP-A127/177E D.32R	
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CP-A127/177E D.40R	
CP-A127/177E D.41R	
CP-A127/177E D.42R	
CP-A127/177E D.43R	
CP-A127/177E D.44R	
CP-A127/177E D.45R	
CP-A127/177E D.46R	
CP-A127/177E D.47R	
CP-A127/177E D.48R	
CP-A127/177E D.49R	
CP-A127/177E D.50R	
CP-A127/177E D.51R	
CP-A127/177E D.52R	





PINZE TONDE ROUND COLLETS

L: LISCIO *SMOOTH*
R: RIGATO *GROOVED*

CP-A133/185E D.5L	
CP-A133/185E D.6L	
CP-A133/185E D.7L	
CP-A133/185E D.8L	
CP-A133/185E D.9L	
CP-A133/185E D.10R	
CP-A133/185E D.11R	
CP-A133/185E D.12R	
CP-A133/185E D.13R	
CP-A133/185E D.14R	
CP-A133/185E D.15R	
CP-A133/185E D.16R	
CP-A133/185E D.17R	
CP-A133/185E D.18R	
CP-A133/185E D.19R	
CP-A133/185E D.20R	
CP-A133/185E D.21R	
CP-A133/185E D.22R	
CP-A133/185E D.23R	
CP-A133/185E D.24R	
CP-A133/185E D.25R	
CP-A133/185E D.26R	
CP-A133/185E D.27R	
CP-A133/185E D.28R	
CP-A133/185E D.29R	
CP-A133/185E D.30R	
CP-A133/185E D.31R	
CP-A133/185E D.32R	
CP-A133/185E D.33R	
CP-A133/185E D.34R	
CP-A133/185E D.35R	
CP-A133/185E D.36R	
CP-A133/185E D.37R	
CP-A133/185E D.38R	
CP-A133/185E D.39R	



PINZE TONDE ROUND COLLETS

CP-A133/185E D.40R	
CP-A133/185E D.41R	
CP-A133/185E D.42R	
CP-A133/185E D.43R	
CP-A133/185E D.44R	
CP-A133/185E D.45R	
CP-A133/185E D.46R	
CP-A133/185E D.47R	
CP-A133/185E D.48R	
CP-A133/185E D.49R	
CP-A133/185E D.50R	
CP-A133/185E D.51R	
CP-A133/185E D.52R	
CP-A133/185E D.53R	
CP-A133/185E D.54R	
CP-A133/185E D.55R	
CP-A133/185E D.56R	
CP-A133/185E D.57R	
CP-A133/185E D.58R	
CP-A133/185E D.59R	
CP-A133/185E D.60R	



PINZE ESAGONALI EXAGONAL NUTS

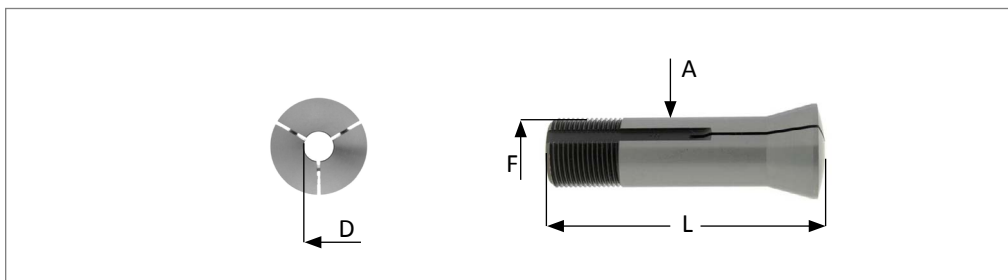
CP-A133/185E E.10	
CP-A133/185E E.11	
CP-A133/185E E.12	
CP-A133/185E E.13	
CP-A133/185E E.14	
CP-A133/185E E.15	
CP-A133/185E E.16	
CP-A133/185E E.17	
CP-A133/185E E.18	
CP-A133/185E E.19	
CP-A133/185E E.20	
CP-A133/185E E.21	
CP-A133/185E E.22	
CP-A133/185E E.23	
CP-A133/185E E.24	
CP-A133/185E E.25	
CP-A133/185E E.26	
CP-A133/185E E.27	
CP-A133/185E E.28	
CP-A133/185E E.29	
CP-A133/185E E.30	
CP-A133/185E E.31	
CP-A133/185E E.32	
CP-A133/185E E.33	
CP-A133/185E E.34	
CP-A133/185E E.35	
CP-A133/185E E.36	
CP-A133/185E E.37	
CP-A133/185E E.38	
CP-A133/185E E.39	
CP-A133/185E E.40	
CP-A133/185E E.41	
CP-A133/185E E.45	



PINZE QUADRE SQUARE COLLETS

CP-A133/185E Q.10	
CP-A133/185E Q.12	
CP-A133/185E Q.14	
CP-A133/185E Q.15	
CP-A133/185E Q.16	
CP-A133/185E Q.18	
CP-A133/185E Q.20	
CP-A133/185E Q.22	
CP-A133/185E Q.24	
CP-A133/185E Q.26	
CP-A133/185E Q.30	
CP-A133/185E Q.32	
CP-A133/185E Q.35	
CP-A133/185E Q.40	





DIMENSIONI SIZES				
TIPO TYPE	D max	A	L	F
CP-E28 / 349E	20	20	73	19,70 x 1,66 45/5°
CP-E48 / 364E	21	25	97,6	24,70 x 15'' 45/5°

PINZE TONDE W20
ROUND COLLETS W20

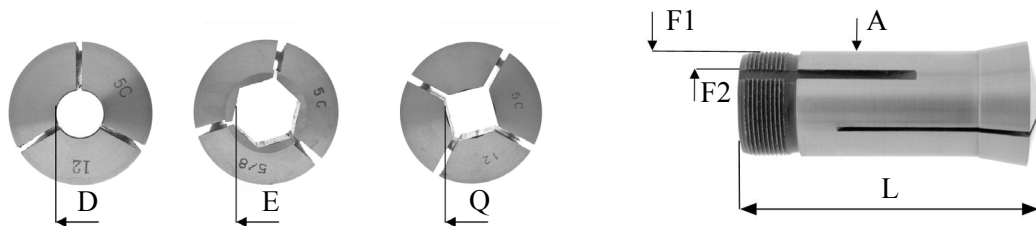
CP-E28/349E D.3	
CP-E28/349E D.4	
CP-E28/349E D.5	
CP-E28/349E D.6	
CP-E28/349E D.7	
CP-E28/349E D.8	
CP-E28/349E D.9	
CP-E28/349E D.10	
CP-E28/349E D.11	
CP-E28/349E D.12	
CP-E28/349E D.13	
CP-E28/349E D.14	
CP-E28/349E D.15	
CP-E28/349E D.16	
CP-E28/349E D.17	
CP-E28/349E D.18	
CP-E28/349E D.19	
CP-E28/349E D.20	



PINZE TONDE W25
ROUND COLLETS W25

CP-E48/364E D.3	
CP-E48/364E D.4	
CP-E48/364E D.5	
CP-E48/364E D.6	
CP-E48/364E D.7	
CP-E48/364E D.8	
CP-E48/364E D.9	
CP-E48/364E D.10	
CP-E48/364E D.11	
CP-E48/364E D.12	
CP-E48/364E D.13	
CP-E48/364E D.14	
CP-E48/364E D.15	
CP-E48/364E D.16	
CP-E48/364E D.17	
CP-E48/364E D.18	
CP-E48/364E D.19	
CP-E48/364E D.20	
CP-E48/364E D.21	

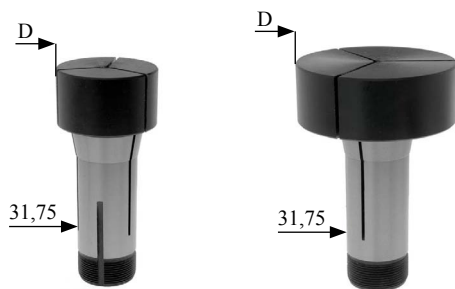




TIPO TYPE	D max	E max	Q max	A	L	F1	F2
5C METRIC	27	20	18	31,75	87	1.234x20	1.047x24
5C INCH	1.1/16"	7/8"	3/4"	1.2495	3.425	1.234x20	1.047x24

5C PINZE MAGGIORATE - LAVORABILI
5C STEP COLLETS - MACHINABLE

	D
5C.STP2	2"
5C.STP3	3"
5C.STP4	4"
5C.STP5	5"
5C.STP6	6"



LE PINZE 5C MAGGIORATE SONO COSTRUITE IN ACCIAIO DA CEMENTAZIONE. LA TESTA NON E' TEMPERATA PER FACILITARNE LA LAVORABILITA'. NON HANNO IL FILETTO INTERNO.

*5C STEP COLLETS ARE MANUFACTURED WITH CASE HARDENED STEEL.
THE HEAD IS SOFT AND EASILY MACHINABLE.
DON'T HAVE INTERNAL THREAD*

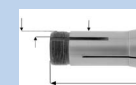
5C PINZE DI EMERGENZA
5C EMERGENCY COLLETS

5C-EMY



LE PINZE 5C DI EMERGENZA SONO COSTRUITE IN ACCIAIO DA CEMENTAZIONE. LA TESTA NON E' TEMPERATA PER CONSENTIRE LA LAVORABILITA'.

*5C EMERGENCY COLLETS ARE MANUFACTURED WITH CASE HARDENED STEEL.
THE HEAD IS SOFT FOR MACHINING TO SPECIFIC REQUIREMENTS*



PINZE 5C TONDE IN POLLICI
5C ROUND COLLETS INCH

5C.D1/16	
5C.D5/64	
5C.D3/32	
5C.D7/64	
5C.D1/8	
5C.D9/64	
5C.D5/32	
5C.D11/64	
5C.D3/16	
5C.D13/64	
5C.D7/32	
5C.D15/64	
5C.D1/4	
5C.D17/64	
5C.D9/32	
5C.D19/64	
5C.D5/16	
5C.D21/64	
5C.D11/32	
5C.D23/64	
5C.D3/8	
5C.D25/64	
5C.D13/32	
5C.D27/64	
5C.D7/16	
5C.D29/64	
5C.D15/32	
5C.D31/64	
5C.D1/2	
5C.D33/64	
5C.D17/32	
5C.D35/64	
5C.D9/16	



PINZE 5C TONDE IN POLLICI
5C ROUND COLLETS INCH

5C.D37/64	
5C.D19/32	
5C.D39/64	
5C.D5/8	
5C.D41/64	
5C.D21/32	
5C.D43/64	
5C.D11/16	
5C.D45/64	
5C.D23/32	
5C.D47/64	
5C.D3/4	
5C.D49/64	
5C.D25/32	
5C.D51/64	
5C.D13/16	
5C.D53/64	
5C.D27/32	
5C.D55/64	
5C.D7/8	
5C.D57/64	
5C.D29/32	
5C.D59/64	
5C.D15/16	
5C.D61/64	
5C.D31/32	
5C.D63/64	
5C.D1"	
5C.D1 1/64	
5C.D1 1/32	
5C.D1 3/64	
5C.D1 1/16	



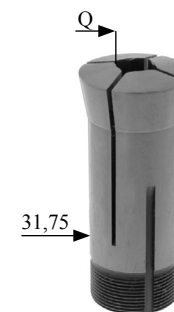
PINZE 5C ESAGONALI IN POLLICI
5C EXAGONAL COLLETS INCH

5C.E1/8	
5C.E3/16	
5C.E1/4	
5C.E5/16	
5C.E3/8	
5C.E7/16	
5C.E1/2	
5C.E9/16	
5C.E5/8	
5C.E11/16	
5C.E3/4	
5C.E13/16	
5C.E7/8	



PINZE 5C QUADRE IN POLLICI
5C SQUARE COLLETS INCH

5C.Q1/8	
5C.Q3/16	
5C.Q1/4	
5C.Q5/16	
5C.Q3/8	
5C.Q7/16	
5C.Q1/2	
5C.Q9/16	
5C.Q5/8	
5C.Q11/16	
5C.Q3/4	

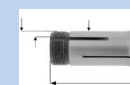


SERIE DI PINZE 5C TONDE
CONTENITORE IN ACCIAIO
COLLETS SETS - STEEL RACK

D.1/8÷1.1/16" x 16THS

TYI.5C-16	
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PINZE 5C TONDE METRICHE
5C ROUND COLLETS METRIC

5C.D1	
5C.D1,5	
5C.D2	
5C.D2,5	
5C.D3	
5C.D3,5	
5C.D4	
5C.D4,5	
5C.D5	
5C.D5,5	
5C.D6	
5C.D6,5	
5C.D7	
5C.D7,5	
5C.D8	
5C.D8,5	
5C.D9	
5C.D9,5	
5C.D10	
5C.D10,5	
5C.D11	
5C.D11,5	
5C.D12	
5C.D12,5	
5C.D13	
5C.D13,5	
5C.D14	
5C.D14,5	
5C.D15	
5C.D15,5	
5C.D16	
5C.D16,5	
5C.D17	
5C.D17,5	
5C.D18	
5C.D18,5	
5C.D19	



PINZE 5C TONDE METRICHE
5C ROUND COLLETS METRIC

5C.D19,5	
5C.D20	
5C.D20,5	
5C.D21	
5C.D21,5	
5C.D22	
5C.D22,5	
5C.D23	
5C.D23,5	
5C.D24	
5C.D24,5	
5C.D25	
5C.D25,5	
5C.D26	
5C.D26,5	
5C.D27	

PINZE 5C ESAGONALI METRICHE
5C EXAGONAL COLLETS METRIC

5C.E4	
5C.E5	
5C.E6	
5C.E7	
5C.E8	
5C.E9	
5C.E10	
5C.E11	
5C.E12	
5C.E13	
5C.E14	
5C.E15	
5C.E16	
5C.E17	
5C.E18	
5C.E19	
5C.E20	



PINZE 5C QUADRE METRICHE
5C SQUARE COLLETS METRIC

5C.Q4	
5C.Q5	
5C.Q6	
5C.Q7	
5C.Q8	
5C.Q9	
5C.Q10	
5C.Q11	
5C.Q12	
5C.Q13	
5C.Q14	
5C.Q15	
5C.Q16	
5C.Q17	
5C.Q18	



SERIE DI PINZE 5C TONDE
CONTENITORE IN ACCIAIO
COLLETS SETS - STEEL RACK

D.3-4-5-6-8-10-12-14-16-18-20-22-24-26

TYM.5C-14

SERIE DI PINZE 5C TONDE
CONTENITORE IN ACCIAIO
COLLETS SETS - STEEL RACK

D.3÷26 x 1mm

TYM.5C-24

