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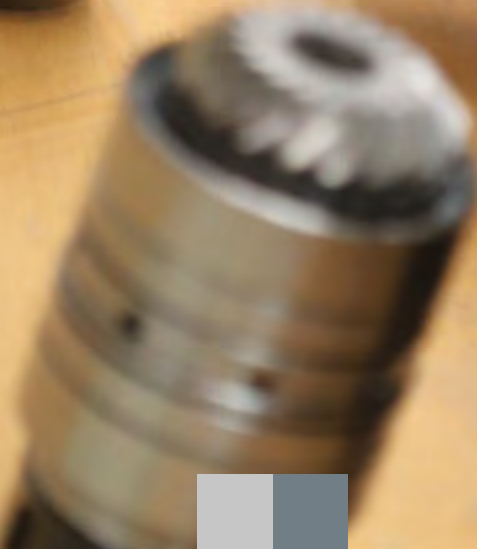
MT-TC-TC3




SERIE

TA

HEAVY DUTY





O.M.G. propone una vasta gamma di Teste ad Angolo. Con più di 110 modelli e quasi 4000 se si contano le varianti, quella di O.M.G. è la più ampia attualmente presente sul mercato. Le Teste ad Angolo sono studiate per consentire una riduzione di tempi e costi nelle lavorazioni meccaniche evitando ulteriori piazzamenti del pezzo. Applicate su macchine tradizionali, centri di lavoro con cambio automatico dell'utensile, oppure centri di tornitura con torretta motorizzata, sono particolarmente curate in ogni particolare, dal cinematismo trattato termicamente, alle coppie coniche Gleason fino ai cuscinetti di precisione per ottenere e garantire un'ottima rigidità e la massima precisione nelle lavorazioni. Fra le tante, queste le due caratteristiche fondamentali per identificare un prodotto moderno che risponde alle attuali esigenze: il gruppo antirotante di nuova concezione che permette alla testa di non avere giochi angolari, le velocità fino a 10.000 rpm (prestazioni che non hanno eguali nei modelli equivalenti della concorrenza). Le teste ad angolo serie TA sono state studiate e definite avvalendosi di sistemi computerizzati all'avanguardia a supporto di conoscenze acquisite dalla O.M.G. in sessant'anni di esperienza nel settore. Tutto ciò ha permesso di fare scelte innovative nei materiali da costruzione, nei trattamenti termici e nelle lavorazioni meccaniche così da ottenere precisione, robustezza, rigidità e finitura al "top".

È così disponibile un'offerta unica per qualità e quantità di modelli atti a soddisfare le esigenze sempre più mirate dell'utilizzatore finale, per qualsiasi macchina utensile: teste monomandrino a 90°, bimandrino a 90°, teste ad angolo variabile da +90° a -90°, teste ad angolo fisso, anche con adduzione refrigerante centro utensile e, dove non è possibile utilizzare teste di serie, teste angolari speciali.

O.M.G. offers a wide range of Angle Heads. With more than 110 models and almost 4000 if we consider all the possible options, what O.M.G. has is the widest range on the market today. The Angle Heads are designed to allow a reduction in time and costs in mechanical processing by reducing the management of the pieces to be machined. Applied on traditional machines, machining centers with automatic tool change, or turning centers with motorized turret, they are extremely meticulous in details, from the heat-treated kinematics to the Gleason bevel gear pairs up to the precision bearings to obtain and guarantee excellent rigidity and maximum precision in machining. Among many, these are the two fundamental characteristics to identify a modern product that responds to current needs: the newly designed anti-rotating group which allows the head to have no angular backlash, the speeds up to 10,000 rpm (performances which have no equal in the models competitive equivalents). The TA series angle heads have been studied and defined using cutting-edge computerized systems to support knowledge acquired by O.M.G. in sixty years of experience. All this has allowed us to make innovative choices in construction materials, heat treatments and mechanical processes so as to obtain precision, robustness, rigidity and "top" finishing.

A unique offer is thus available in terms of quality and quantity of models designed to satisfy the increasingly targeted needs of the end user, for any machine tool: 90° single-spindle heads, 90° double-spindle heads, +90 variable angle heads ° to -90°, fixed angle heads, also with tool center coolant supply and, where it is not possible to use standard heads, special angular heads.

Pagina • Page: 4-11



TAR

Piccole per piccoli spazi.
Tiny for narrow spaces.

TA

Pagina • Page: 4-23

Lavorazione singola di
foratura e fresatura.
*Drilling and milling
machining.*



Pagina • Page: 4-49

TA... 2P

Due mandrini
contrapposti di 180°.
*180° two opposed
spindles.*



TA... D

Pagina • Page: 4-55

Input refrigerante
attraverso lo stop-block
e uscita attraverso il
centro utensile.
*Input coolant from
stop-block, and output
through tool spindle.*



Pagina • Page: 4-75

TAV

Mandrino variabile
 $\pm 90^\circ$.
 *$\pm 90^\circ$ adjustable
spindle.*



TAF

Pagina • Page: 4-95

Mandrino fisso,
angolo su richiesta
del cliente.
*Fixed spindle with
custom angle.*



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4-3

VH

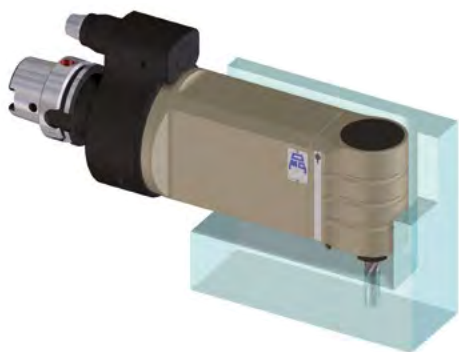
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TA...L

Versione allungata per lavorazioni singole di foratura e fresatura.

Length stretched version for drilling and milling single machining operations.

TAL

Pagina • Page: 4-39

Versione leggera per lavorazioni singole di foratura e fresatura.

Ligh version for drilling and milling single machining operations.



Pagina • Page: 4-65



TAO

Mandrino offset, lavorazione in spazi ristretti ed ottima performance in fresatura.

Offset spindle, machining in narrow spaces, and excellent results in milling operations.

TAO... PD

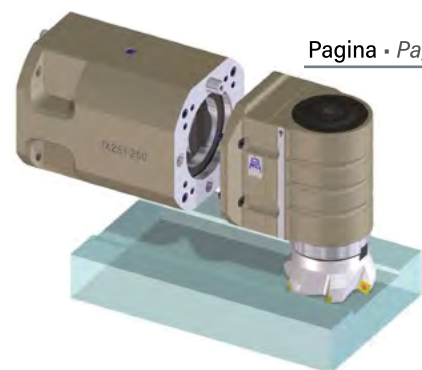
Pagina • Page: 4-66

Mandrino offset, input refrigerante attraverso il centro cono, uscita attraverso centro utensili con pressione 70 bar.

Offset spindle, input coolant through machine taper, output through tool spindle at 70 bar pressure.



Pagina • Page: 4-101



TA... T

Connessione alla macchina tramite flangia.

To be connected to the machine by flange.

SIMBOLI

ICONS



RAPPORTO ENTRATA/USCITA
RATIO INPUT/OUTPUT



CAPACITÀ DI FORATURA
DRILLING CAPACITY



MASCHIATURA
TAPPING



PESO
WEIGHT



N° MAX GIRI IN USCITA
MAX OUTPUT RPM



PRESSIONE
PRESSURE



CARICO ASSIALE
AXIAL LOAD



PESO CON CONO 40
WEIGHT WITH SIZE 40 SHANK



PESO CON CONO 50
WEIGHT WITH SIZE 50 SHANK



ROTAZIONE IN INGRESSO
INPUT ROTATION



ROTAZIONE IN USCITA
OUTPUT ROTATION



DUAL CONTACT



ACCURACY



COPIA TORQUE

SISTEMA MODULARE PER APPLICAZIONI FLESSIBILI

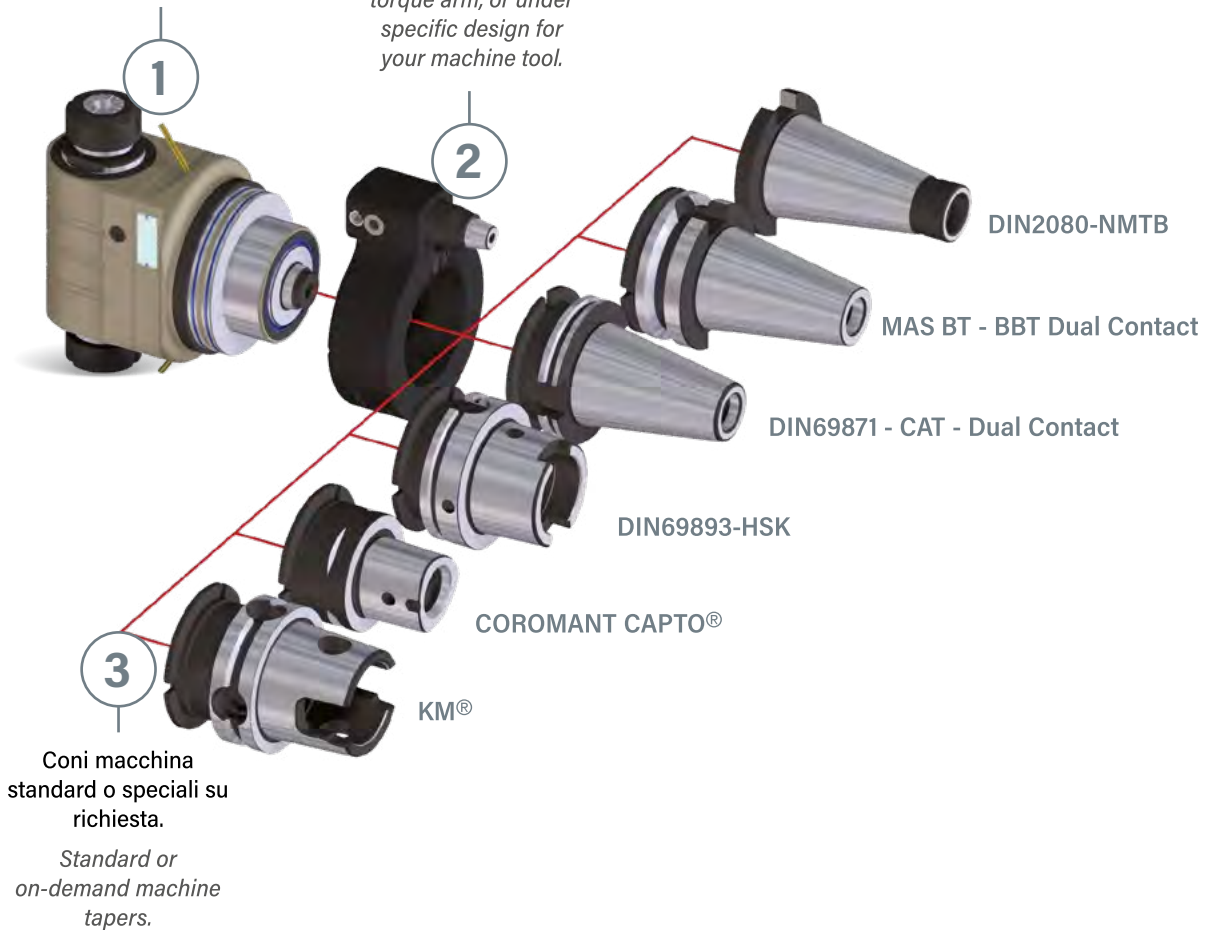
MODULAR SYSTEM FOR FLEXIBLE APPLICATION

Testa ad angolo con presa utensile ER standard, oppure vedi tipi Mandrino.

Angle Head with standard ER tool connection, or check other spindle types.

Antirotante standard "senza gioco", oppure su specifico design per la vostra macchina utensile.

No backlash standard torque arm, or under specific design for your machine tool.



Coni macchina standard o speciali su richiesta.

Standard or on-demand machine tapers.

MODULARITÀ CONI

Sono disponibili tutti i tipi di cono macchina, da sostituire tramite un esclusivo accoppiamento di precisione che crea un sistema rigido pari ai cono integrali, ma con i pregi dell'intercambiabilità.

MODULARITÀ ANTIROTANTI

esistono fondamentalmente tre dimensioni unificate di interesse tra il centro cono ed il centro perno antirotante: 65 mm per i cono grandezza 40, 80 mm per i cono grandezza 50 ed in alcuni casi anche 110 mm. Sono disponibili tutte le dimensioni e sostituire il gruppo antirotante è una operazione banale.

TAPER MODULARITY

All the different machine tapers are available, and can be replaced with an exclusive precision coupling system generating a rigid system equal to integral tapers, but with additional interchangeability quality.

TORQUE ARM MODULARITY

Essentially three unified dimensions between taper and torque-arm centers exist: 65 mm for the taper size 40, 80 mm for the taper size 50 and also 110 mm in some cases. All sizes are available and torque-arm replacement is very simple.

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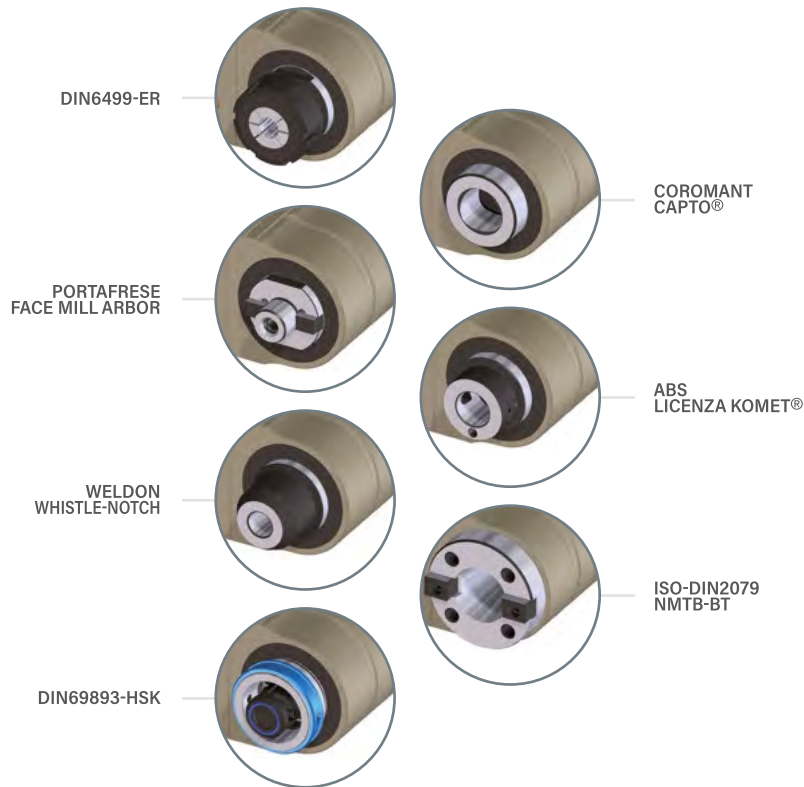
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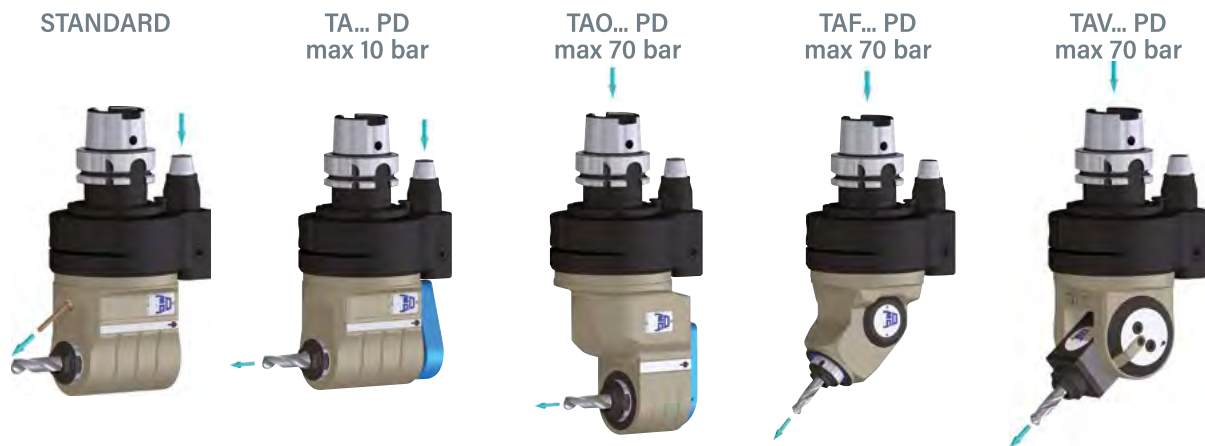
PRESE UTENSILI - TIPI MANDRINO

CLAMPING SYSTEMS AND SPINDLE TYPES



REFRIGERANTE UTENSILE

COOLANT TOOL



IL CIRCUITO REFRIGERANTE È STANDARD

Tutte le teste sono provviste di canalizzazione interna, che parte dal perno dell'antirostante e termina sull'ugello vicino all'utensile, senza alcun costo aggiuntivo.

REFRIGERANTE DA CONO MACCHINA

La costruzione offset delle Teste ad Angolo serie TAO consente il montaggio di tenute ad alta pressione affidabili nel tempo ed isolate dalle parti vitali della Testa ad Angolo, per un sicuro utilizzo di utensili con passaggio refrigerante interno.

COOLANT SYSTEM IS STANDARD

All our Angle Heads are supplied with an internal channel system, which starts from the torque-arm pin and ends on the nozzles next to the tool, without additional cost.

COOLANT SYSTEM FROM MACHINE TAPER

The offset construction of the TAO Angle Head series allows to fit high pressure seals which are time reliable and isolated from the vital parts of the Angle Heads, for a safe usage of tools with internal coolant transit.

ANTIROTANTE

TORQUE ARM

PRESTAZIONI SUPERIORI

L'antirotante standard permette di cambiare la testa in automatico. Il sistema di accoppiamento fra perno conico regolabile assialmente e lo stop-block con sede a "V", permette di annullare la tolleranza tra le parti creando un sistema rigido, senza giochi. Evidenti sono i vantaggi: maggiore durata degli utensili, maggiore durata dei cuscinetti, risparmi in termini di manutenzione con conseguente riduzione dei costi.

MASSIMA STABILITÀ

I sistemi antirotanti **TriBlock** e **QuadBlock** di O.M.G. con perni regolabili permettono di contrastare al meglio le spinte radiali e assiali con la possibilità di affrontare in sicurezza lavorazioni di fresatura o finitura fino a ora mai effettuate con le teste ad angolo, destinate inizialmente a diversi piazzamenti pezzo.

HIGHER PERFORMANCES

The standard torque arm allows an automatic change of the head. The coupling system between the conical pin, which can be axial adjusted, and the "V"-housing of the stop-block, allows to cancel any tolerance between those parts generating a rigid and backlash free system. The advantages are evident: longer life of tools, longer life of bearings, maintenance savings with consequent cost reductions.

MAXIMUM STABILITY

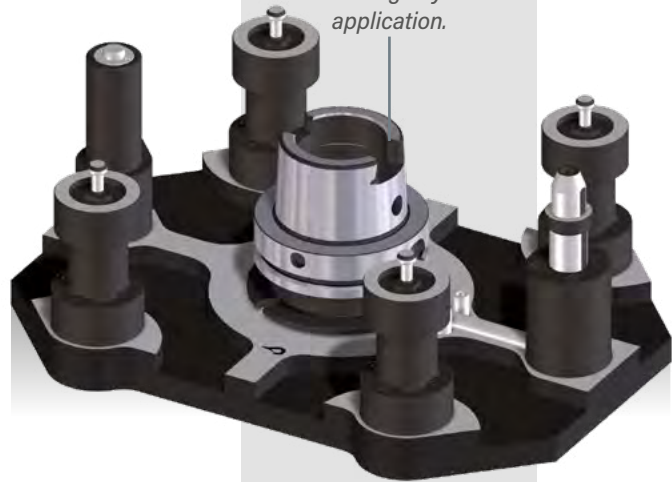
*The O.M.G. **TriBlock** and **TriBlock** torque arm systems with adjustable pin allow to oppose both radial and axial thrusts at their best, with the possibility of milling or finishing with total security, which was not possible until nowadays because requiring several changes of placement of the piece to be machined.*

STANDARD

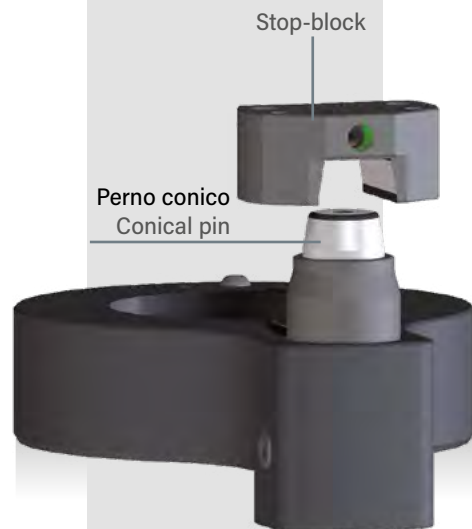


Studiato e realizzato su specifica richiesta.

Customized design according to your application.



Perno conico
Conical pin



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CONNESSIONE ALLA MACCHINA TRAMITE FLANGIA

MACHINE CONNECTION BY FLANGE

- 1 MACCHINA
MACHINE
- 2 FLANGIA DI CONNESSIONE
CONNECTION FLANGE
- 3 GIUNTO ISO 40/50
DRIVING JOINT ISO 40/50
- 4 ESTENSIONE
EXTENSION
- 5 TESTA AD ANGOLO TA... T
ANGLE HEAD TA... T



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TSI/TSX

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MT-TC-TC3



QUALITÀ DEI COMPONENTI

QUALITY OF COMPONENTS

CORPO - BODY

Corpo testa in acciaio: massima rigidità e minima dilatazione termica.

Heady body in steel: maximum rigidity and minimum thermal expansion.



CUSCINETTI BEARINGS

Cuscinetti obliqui in classe di precisione ABEC7/9.

Angular contact ball bearings of precision class ABEC7/9



INGRANAGGI GEARS

Ingranaggi Gleason con evolvente rettificato: massime performances e minori vibrazioni.

Gleason rectified gears: maximum performances and minimum vibration.



DESIGN

Design compatto, che insieme alle specifiche sopra descritte, consente: alte performances, elevate velocità, lunga durata degli utensili.

Compact design that, along with above mentioned described specifications, allows: high performances, high speeds, long life of tools.



MATERIALI

Tutte le teste ad angolo standard sono in acciaio ricavate dal pieno per fresatura a pareti sottili, minimo ingombro e minor peso. Hanno il corpo trattato con nipro, trattamento anticorrosione, che garantisce alta protezione contro la ruggine, lubrificanti aggressivi e acidi.

COMPONENTI

Tutte le teste montano cuscinetti di precisione, oppure conici nelle versioni per grandi asportazioni. Si utilizzano solo cinematismi trattati termicamente e coppie coniche Gleason con dentatura rettificata. Lubrificazione con grasso long-life.

MATERIALS

All our standard Angle Heads are made from solid steel for thin wall milling, resulting with the minimum possible size and less weight. Body is nipro treated and anti-corrosion coated giving the guarantee of high protection against rust as well as acid and aggressive lubricant-coolants.

COMPONENTS

All our Angle Heads integrate precision bearings, or tapered roller bearings when models are for big removal machining. We only use thermal treated cinematic components and Gleason bevel gears with rectified teeth. Lubrication is with long-life grease.

PACKAGING

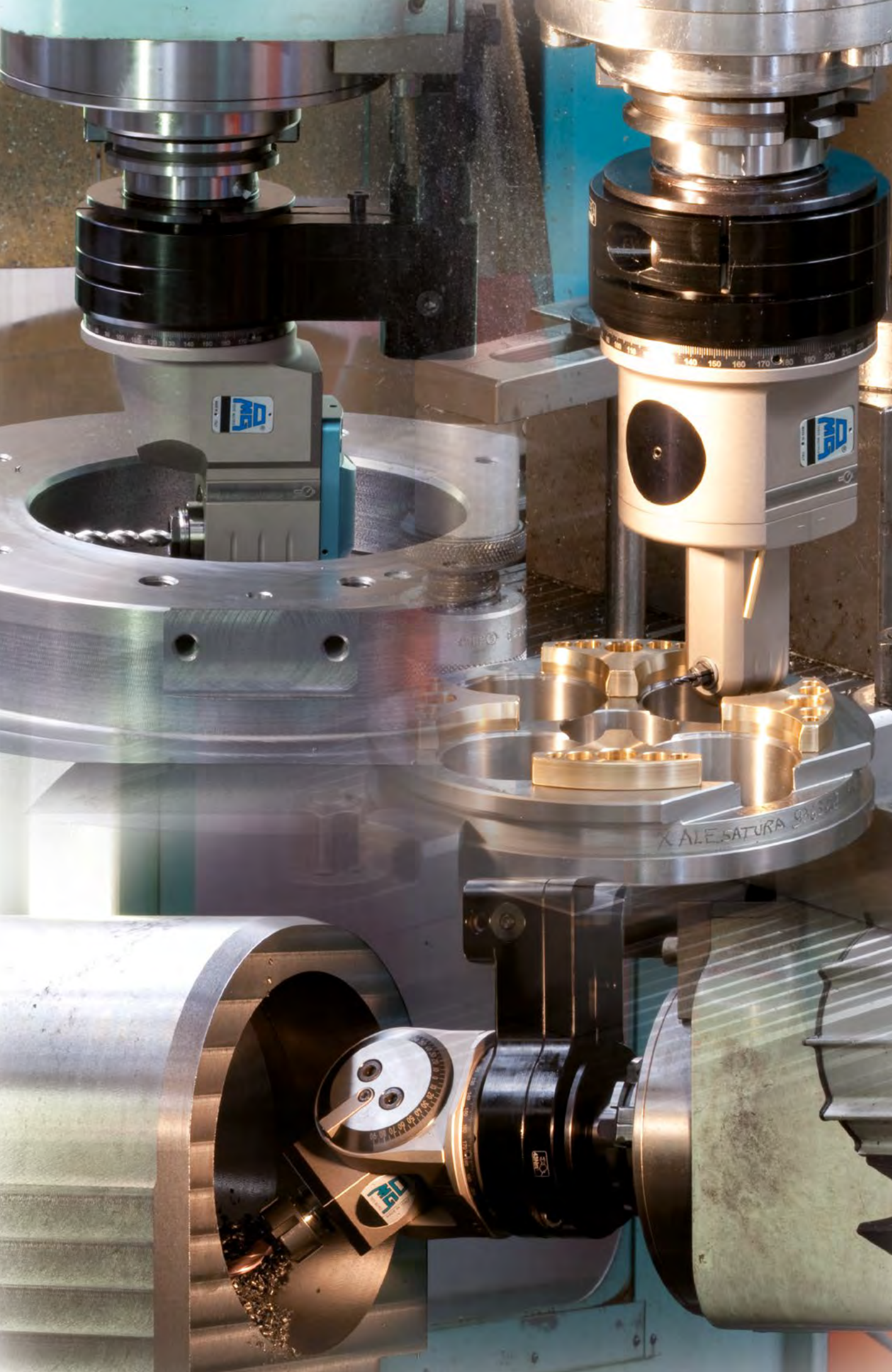


Le Teste ad Angolo sono racchiuse in robusta valigetta di materiale termoplastico e corredate di una completa dotazione di accessori:

- Stop-block standard con passaggio refrigerante
- Confezione di chiavi per messa in funzione e manutenzione
- Grasso di mantenimento
- Manuale istruzioni dettagliato per messa in funzione e manutenzione

The Angle Heads are packed in a strong thermoplastic case together with a complete set of accessories:

- Standard stop-block with coolant way
- Set of keys for operation and maintenance
- Grease tube
- Operation and maintenance manual



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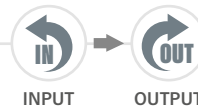
TAR02.P

TESTA AD ANGOLO - ANGLE HEAD



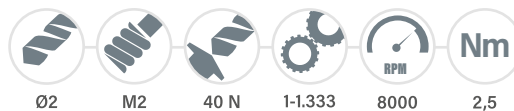
6,6 KG

9 KG

PESO
WEIGHT

INPUT

OUTPUT

ROTAZIONE
ROTATION

Ø2

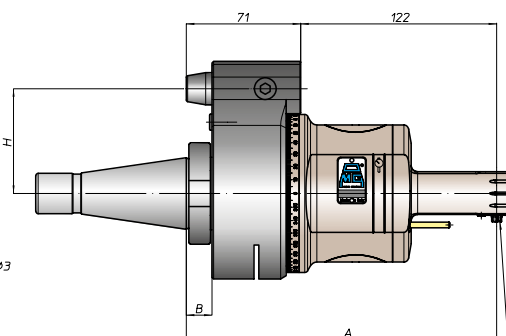
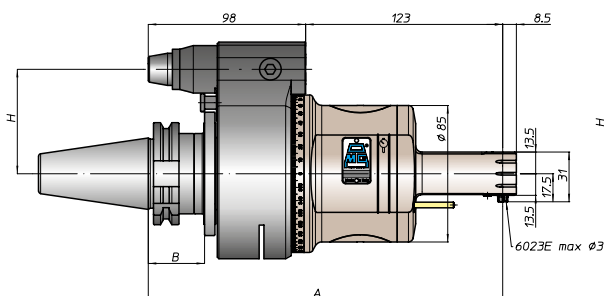
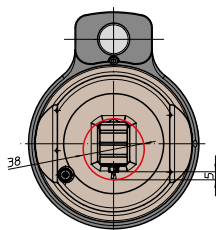
M2

40 N

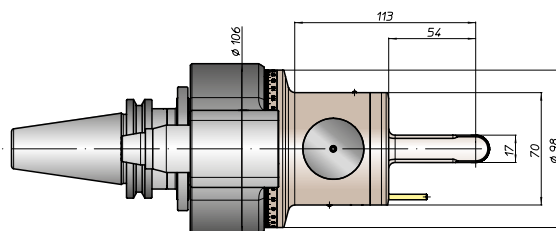
1-1.333

8000

2,5

CARATTERISTICHE
FEATURES

6023E max Ø3

CONO
SHANK

DIN69871



ANSIB5.50



BT



HSK

DIN69893



CAPTO

ISO26623



KM



DIN2080



ANSIB5.18

SIZE

30 40 45 50 40 50 40 50 63 80 100

C5 C6 C8

63 80 100

40 50

40 50

A

221

221

221 229

230

225

221

191 194

191 194

B

35

35

35 45

44 46

39 41

13 16

13 16

H STANDARD

65 80

65 80

65 80

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65 80

65 80

65 80

H OPTIONAL

110

110

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110

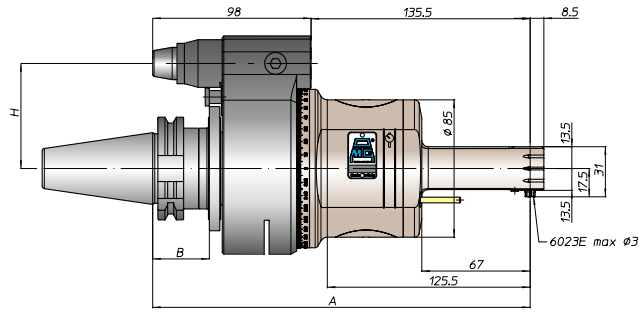
110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAR02.P-L67

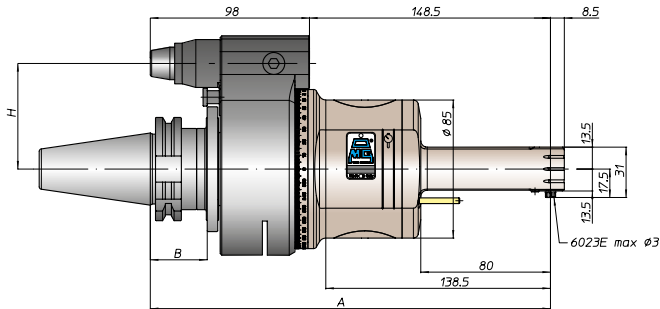
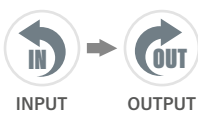
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	233,5				233,5		233,5	241,5	242,5			237,5			233,5			203,5	206,5	203,5	206,5

TAR02.P-L80

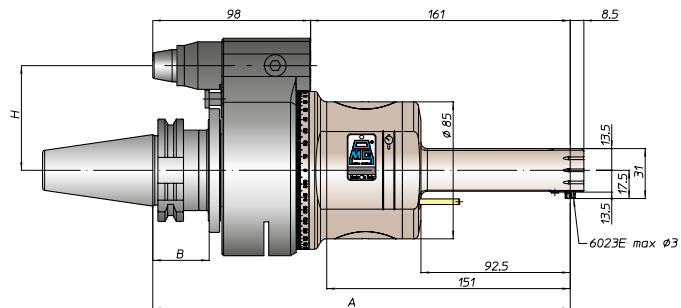
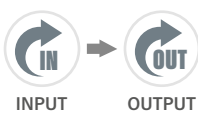
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	246,5				246,5		246,5	254,5	255,5			250,5			246,5			276,5	273,5	276,5	273,5

TAR02.P-L92

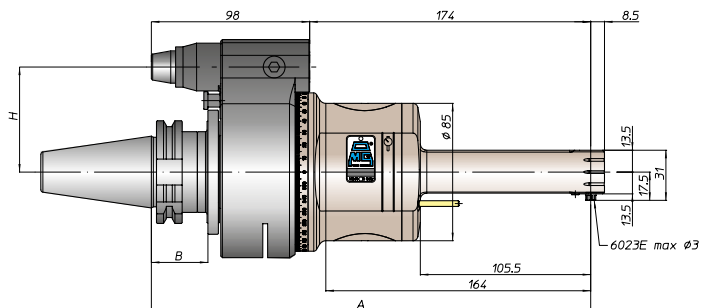
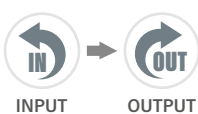
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	259				259		259	267	268			263			259			289	286	289	286

TAR02.P-L105

ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	272				272		272	280	281			276			272			302	299	302	299

FH

BAH

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VH

TSI/TSX

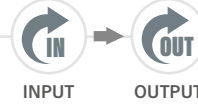
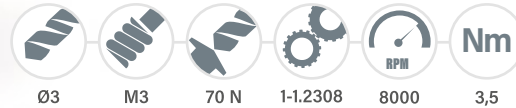
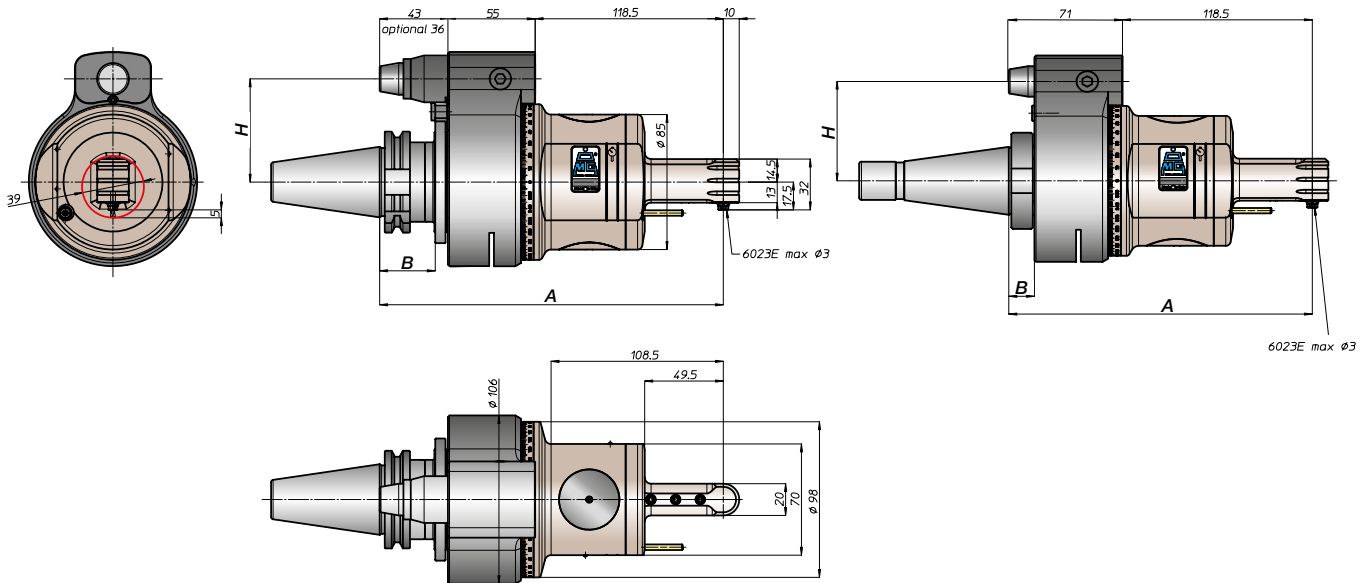
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TAR03.P

TESTA AD ANGOLO - ANGLE HEAD

PESO
WEIGHTROTAZIONE
ROTATIONCARATTERISTICHE
FEATURESCONO
SHANK

DIN69871



ANSIB5.50

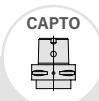


BT



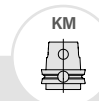
HSK

DIN69893

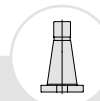


CAPTO

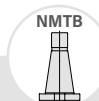
ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

30 40 45 50 40 50 40 50 63 80 100

C5 C6 C8

63 80 100

40 50

40 50

A

216,5 216,5 216,5 224,5 225,5 220,5 216,5 186,5 189,5 188,5 191,5

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80 65 80

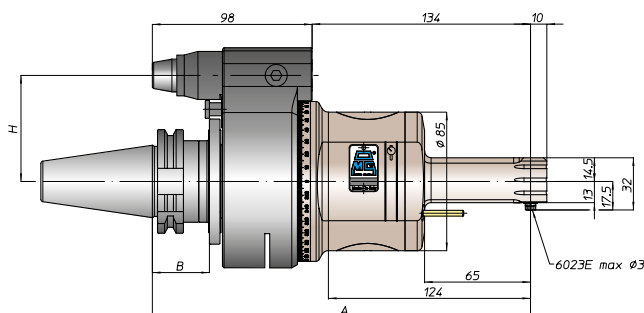
H OPTIONAL

110 110 110 110 110 110 110 110

For DIN69871, ANSIB5.50 and BT, dual contact as option

TAR03.P-L65

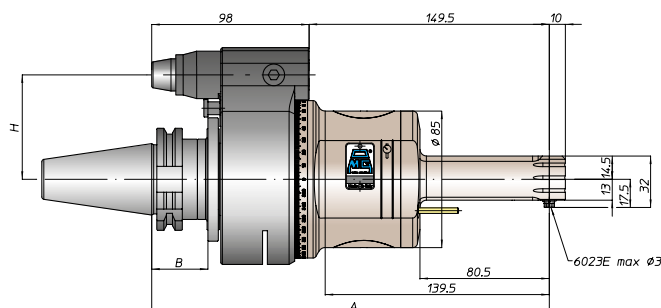
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	232				232		232	240	241			236			232		202	205	202	205	

TAR03.P-L80

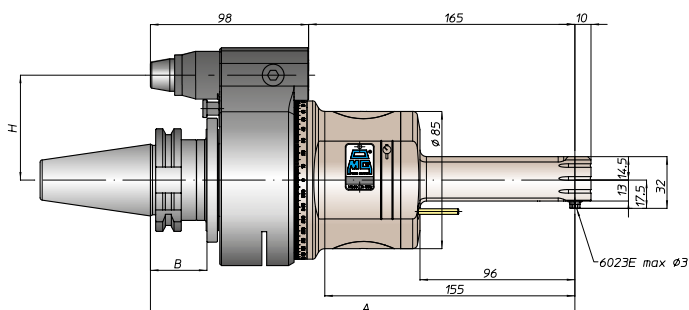
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	247				247		247	255	256			251			247		217	220	217	220	

TAR03.P-L96

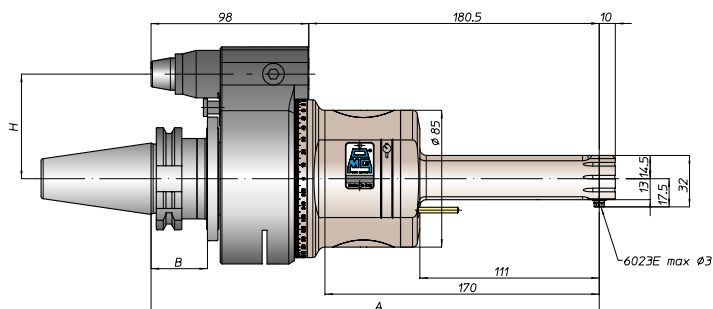
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	263				293		293	271	272			267			263		233	236	233	236	

TAR03.P-L111

ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	278				278		278	286	287			282			278		248	251	248	251	



FH

BAH

TA.CP

TA

MOX

HT

4-15

VH

TSI/TSX

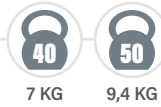
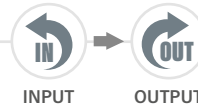
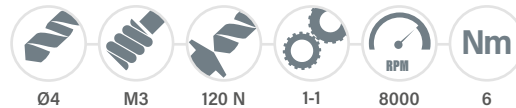
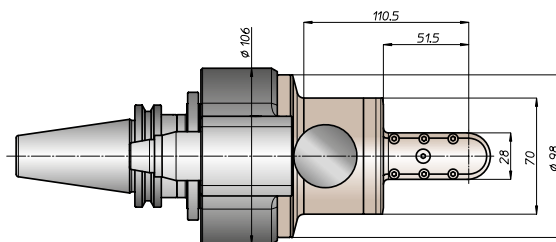
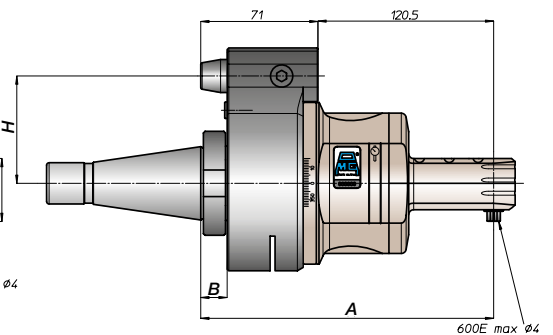
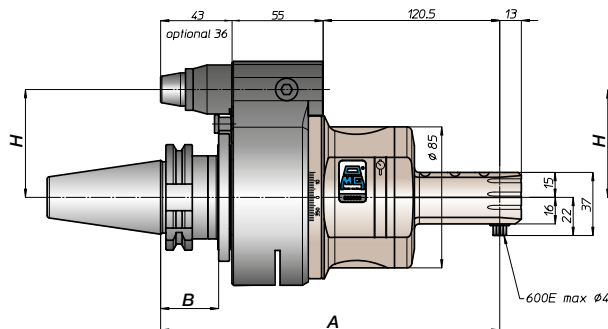
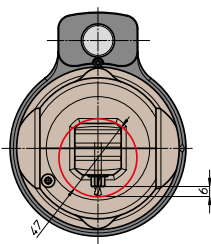
T

MT-TC-TC3



TAR04.P

TESTA AD ANGOLO - ANGLE HEAD

PESO
WEIGHTROTAZIONE
ROTATIONCARATTERISTICHE
FEATURESCONO
SHANK

DIN69871



ANSIB5.50

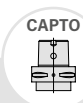


BT



HSK

DIN69893



CAPTO

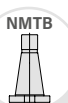
ISO26623



KM



DIN2080



ANSIB5.18

SIZE

30 40 45 50 40 50 40 50 63 80 100

C5 C6 C8

63 80 100

40 50

40 50

A

218,5 218,5 218,5 226,5 227,5 222,5 218,5 188,5 191,5 188,5 191,5

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80 65 80

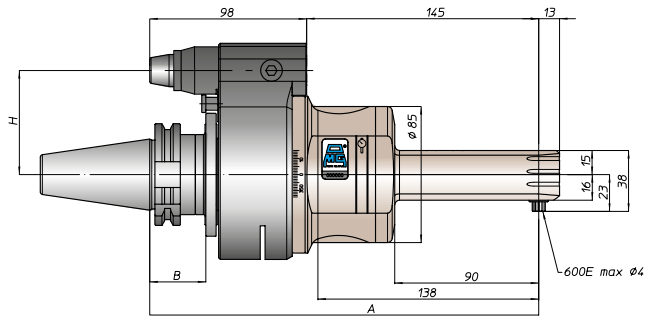
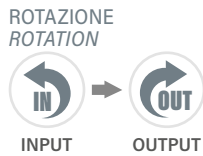
H OPTIONAL

110 110 110 110 110 110 110 110

For DIN69871, ANSIB5.50 and BT, dual contact as option

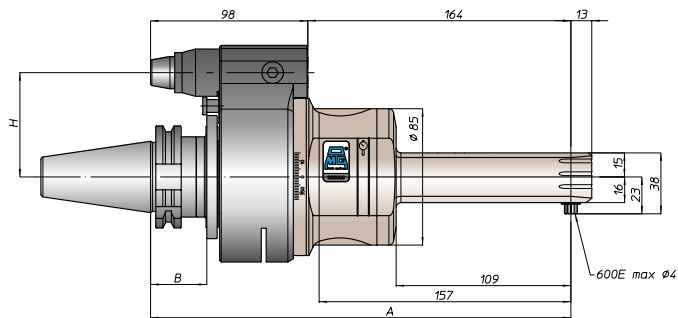
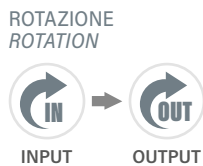


TAR04.P-L90



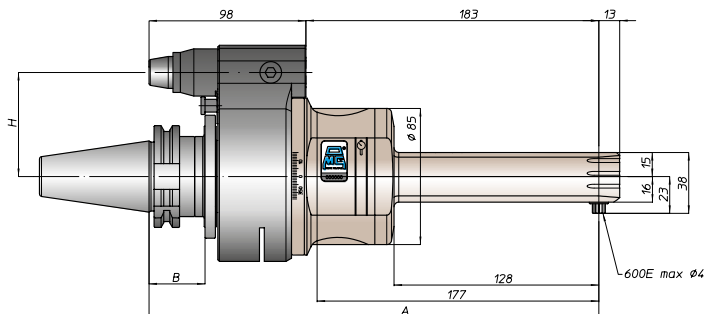
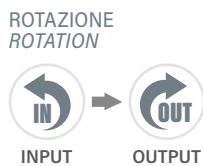
CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18	
	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40
A	257				257		257	265	266			261			257		227	230	227	230

TAR04.P-L109



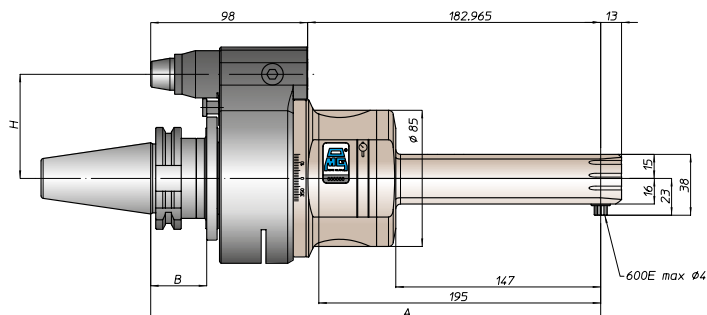
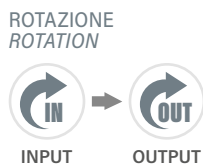
CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18	
	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40
A	276				276		276	284	285			280			276		246	249	246	249

TAR04.P-L128



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18	
	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40
A	295				295		295	303	304			299			295		265	268	265	268

TAR04.P-L147



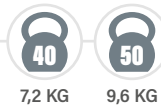
CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18	
	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40
A	314				314		314	322	323			318			314		284	287	284	287



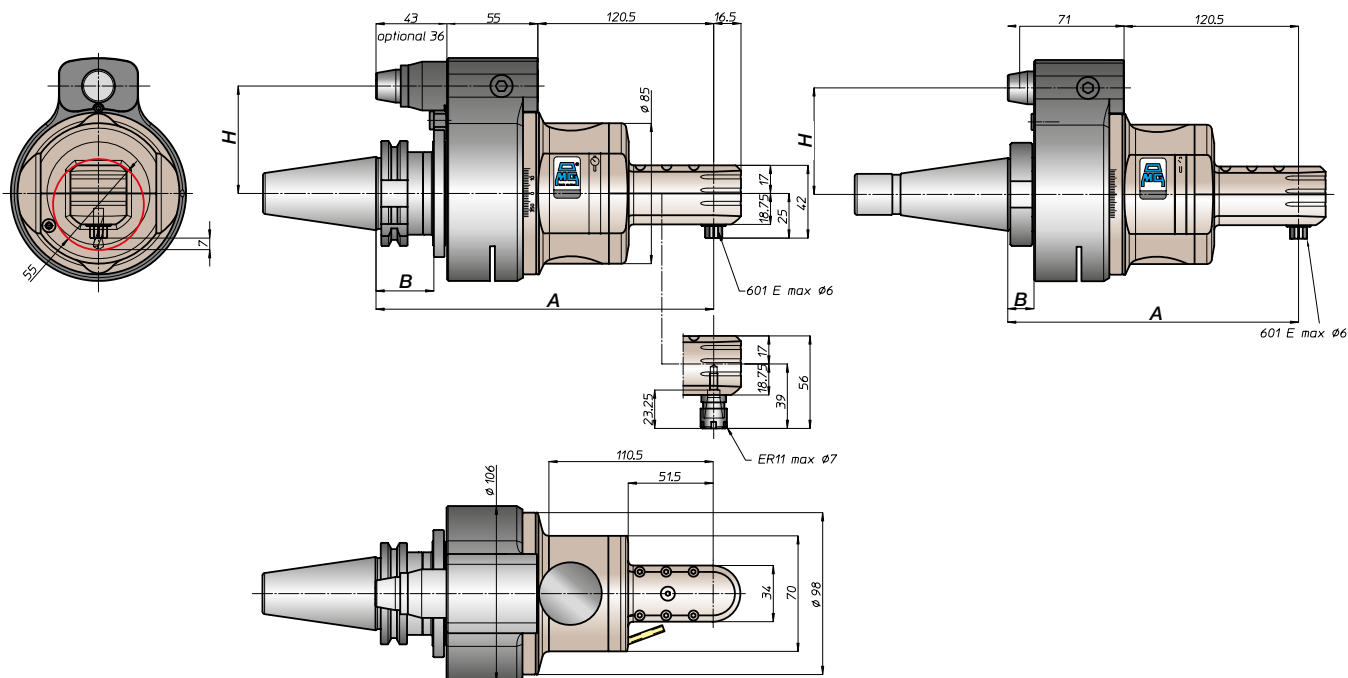
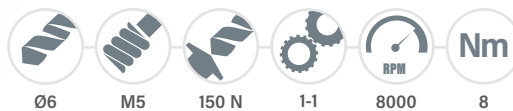
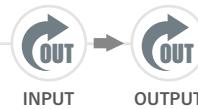


TAR06.P

TESTA AD ANGOLO - ANGLE HEAD



PESO
WEIGHT



CONO
SHANK

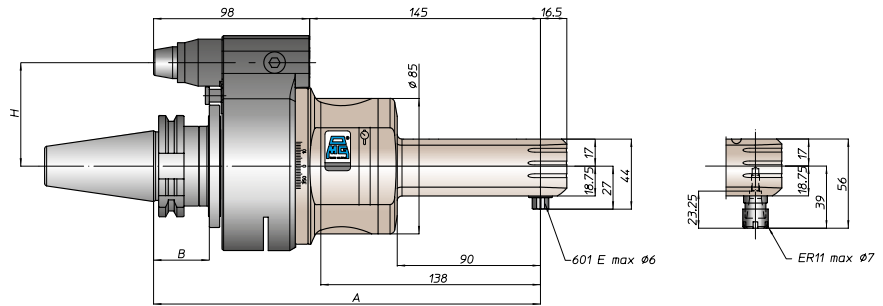
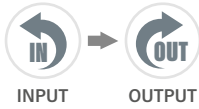
	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50	
A	218,5				218,5		218,5	226,5	227,5			222,5			218,5			188,5	191,5	188,5	191,5	
B	35				35		35	45	44	46		39	41					13	16	13	16	
H STANDARD	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80
H OPTIONAL	110				110		110		110			110			110			110		110		

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAR06.P-L90

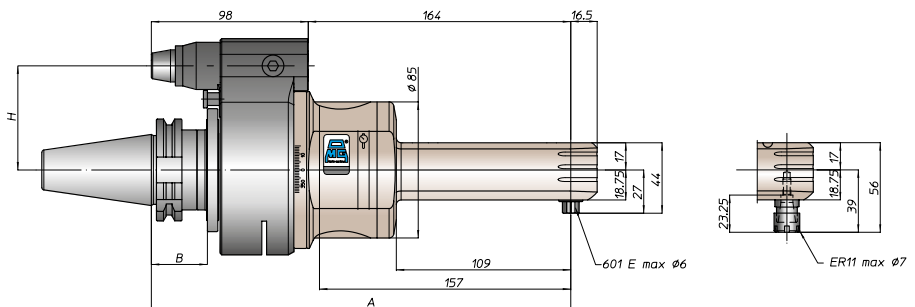
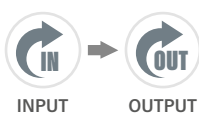
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	257				257		257	265	266			261			257		227	230	227	230	

TAR06.P-L109

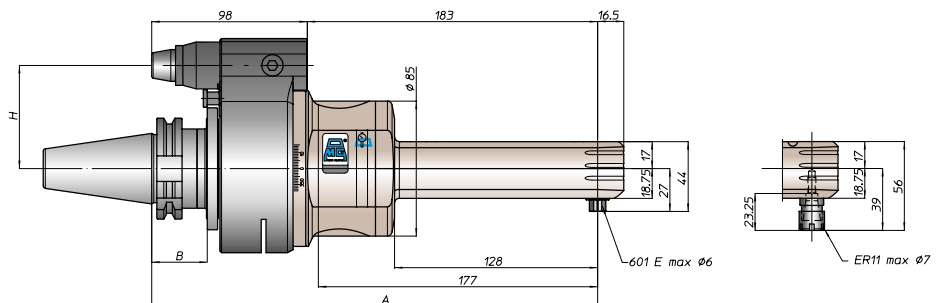
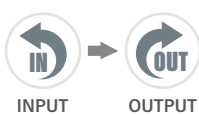
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	276				276		276	284	285			280			276		246	249	246	249	

TAR06.P-L128

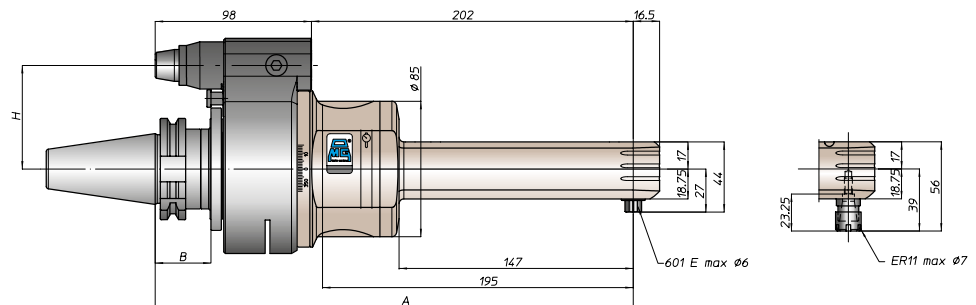
ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	295				295		295	303	304			299			295		265	268	265	268	

TAR06.P-L147

ROTAZIONE
ROTATION



CONO SHANK	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM		DIN2080		NMTB ANSIB5.18		
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	314				314		314	322	323			318			314		284	287	284	287	



FH

BAH

TA.CP

TA

MOX

HT

4-19

VH

TSI/TSX

T

MT-TC-TC3



TAR10.P

TESTA AD ANGOLO - ANGLE HEAD



40
7 KG

50
9 KG

PESO
WEIGHT

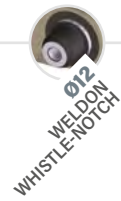
IN
INPUT

OUT
OUTPUT

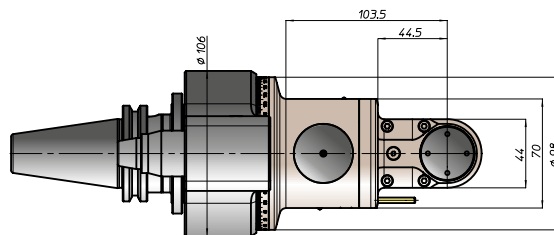
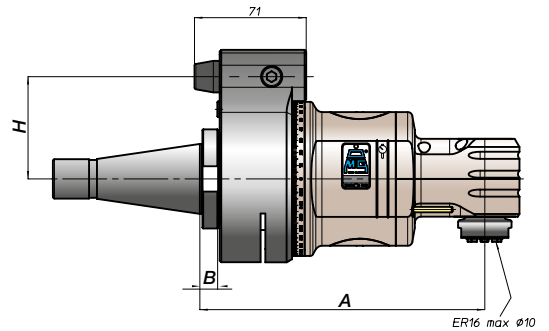
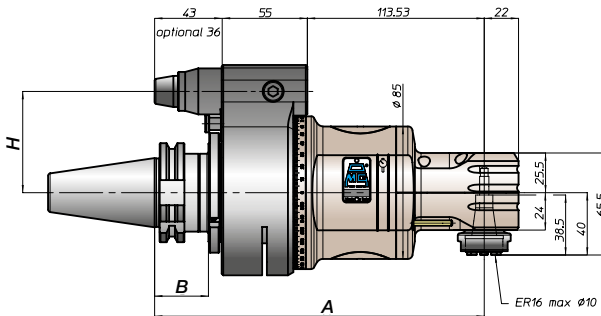
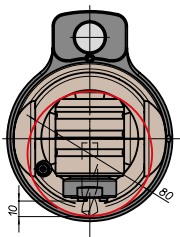
ROTAZIONE
ROTATION



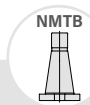
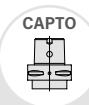
CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

211,5

211,5

211,5

219,5

220,5

215,5

211,5

181,5

184,5

181,5

184,5

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

110

110

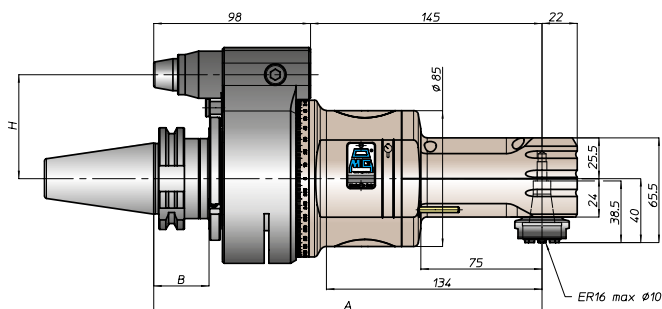
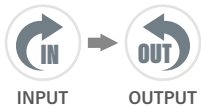
110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAR10.P-L75

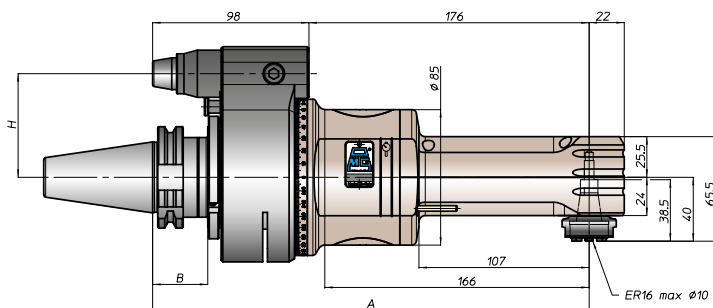
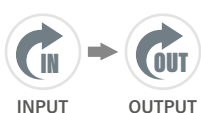
ROTAZIONE
ROTATION



CONO SHANK	DIN69871			CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	242,78			242,78		242,78	250,78	251,78			246,78			242,78			212,78	215,78	212,78	215,78

TAR10.P-L107

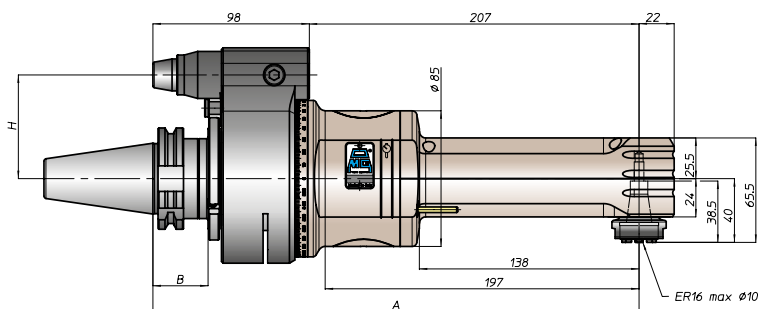
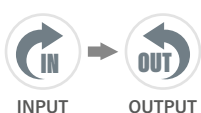
ROTAZIONE
ROTATION



CONO SHANK	DIN69871			CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	274,06			274,06		274,06	282,06	283,06			278,06			274,06			244,06	247,06	244,06	247,06

TAR10.P-L138

ROTAZIONE
ROTATION



CONO SHANK	DIN69871			CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	305,35			305,35		305,35	313,35	314,35			309,35			205,35			275,35	278,35	275,35	278,35



FH

BAH

TA.CP

TA

MOx

HT

4-21

VH

TSI/TSX

T

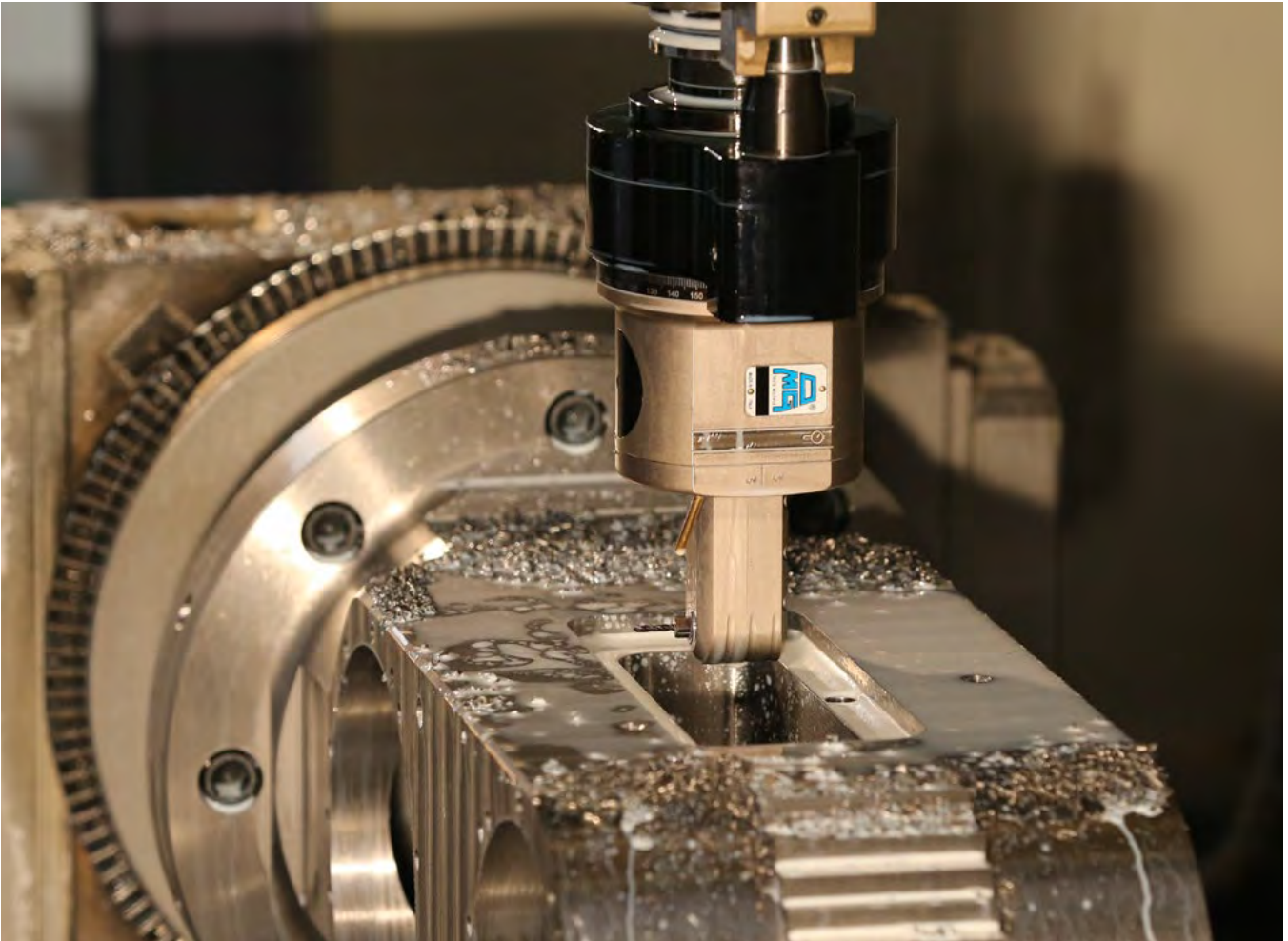
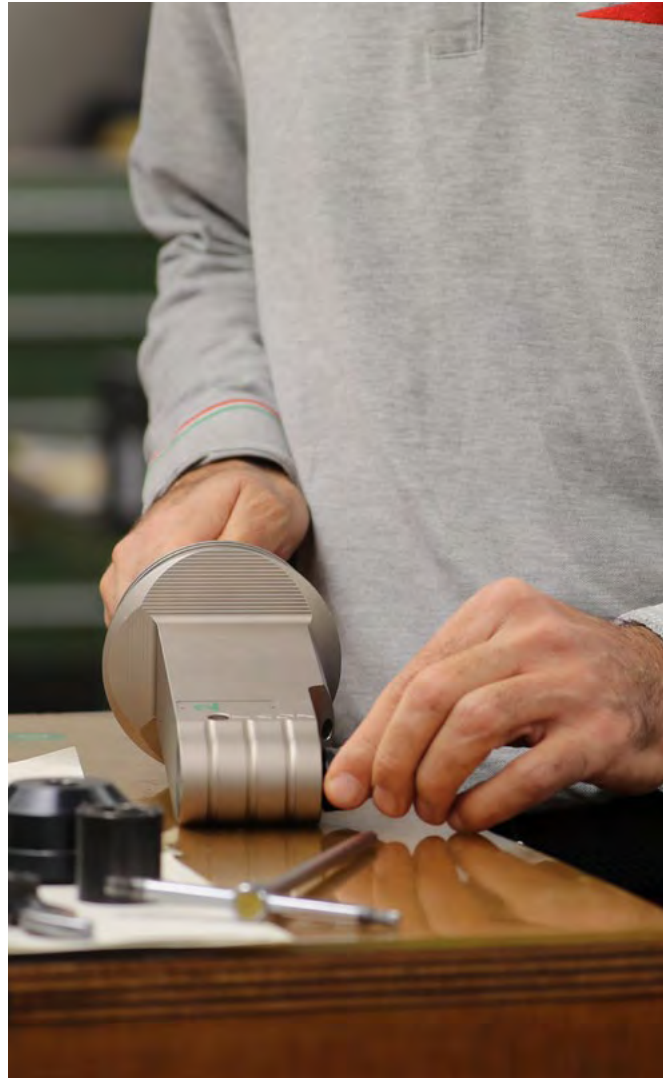
MT-TC-TC3



TAR

GALLERY





FH

BAH

TA.CP

TA

MOX

HT

4-23

VH

TSI/TSX

T

MT-TC-TC3



TA07.P

TESTA AD ANGOLO - ANGLE HEAD



40
5,5 KG

50
7,5 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø7



M6



180 N



1-1



10000



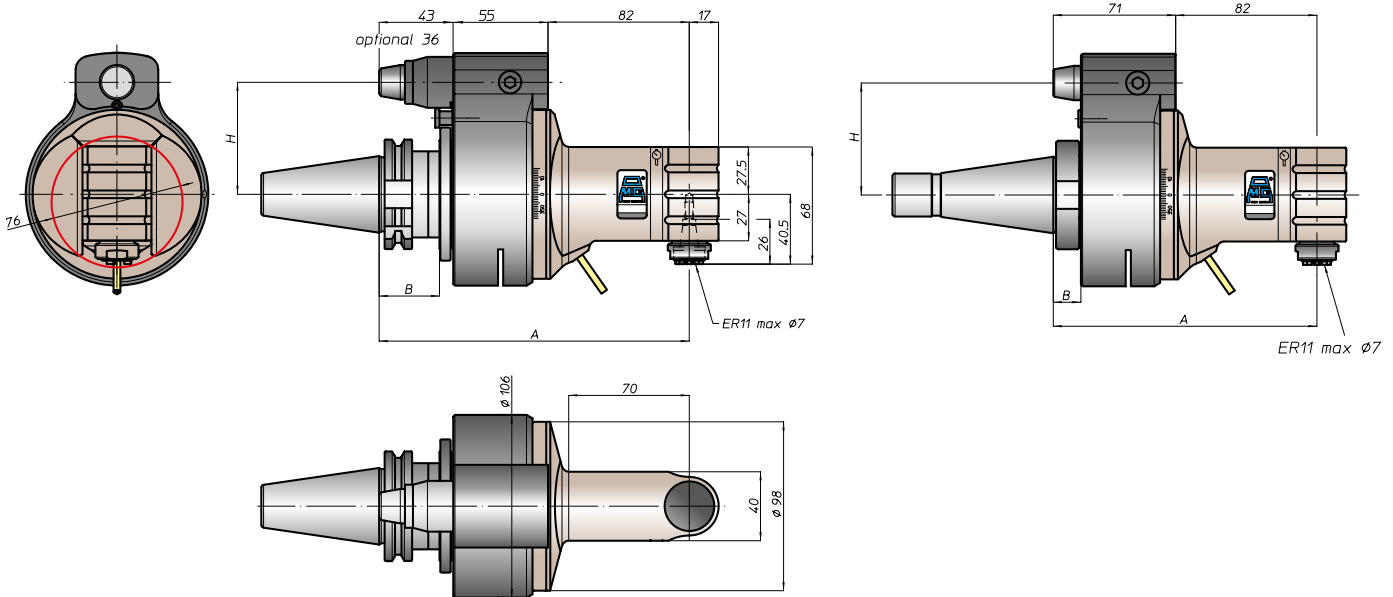
11

CARATTERISTICHE
FEATURES



Ø8-Ø10
WELDON
WHISTLE-NOTCH

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



ANSIB5.50

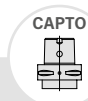


BT



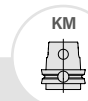
HSK

DIN69893

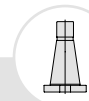


CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

30 40 45 50 40 50 40 50 63 80 100 C5 C6 C8 63 80 100 40 50 40 50

A

180 180 180 188 189 184 180 150 153 150 153

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80 65 80

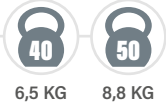
H OPTIONAL

110 110 110 110 110 110 110 110

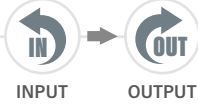
For DIN69871, ANSIB5.50 and BT, dual contact as option



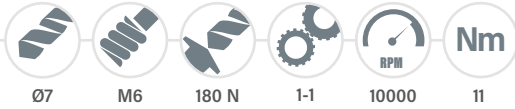
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



TA07.PL

TESTA AD ANGOLO - ANGLE HEAD

FH

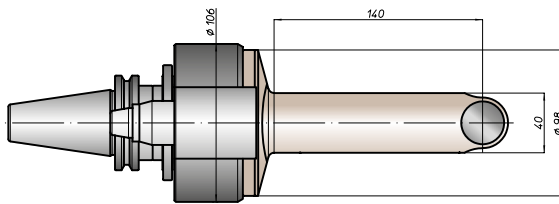
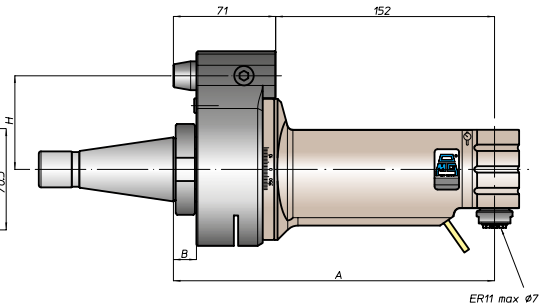
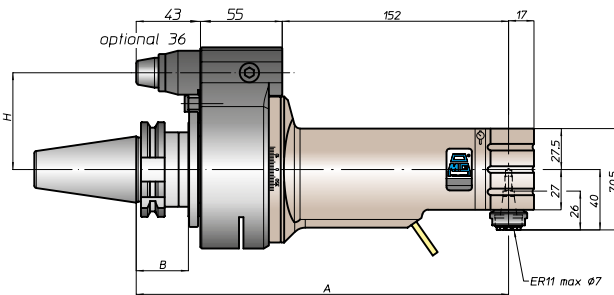
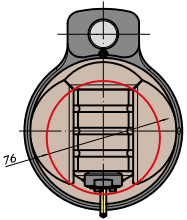
BAH

TA.CP

TA

MOX

HT



4-24

VH

TSI/TSX

T

MT-TC-TC3

CONO
SHANK



	CAT ANSIB5.50			BT		HSK DIN69893			CAPTO ISO26623			KM DIN2080		NMTB ANSIB5.18						
SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	250			250	258	259			254			250			220	223	220	223		
B	35			35	45	44	46		39	41					13	16	13	16		
H STANDARD	65	80	80	65	80	65	80	65	80	80	65	80	80	65	80	80	65	80	65	80
H OPTIONAL		110		110		110		110					110		110		110			110

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-25

VH

TSI/TSX

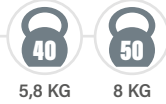
T

MT-TC-TC3



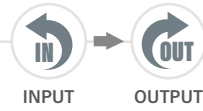
TA10.P

TESTA AD ANGOLO - ANGLE HEAD



PESO

WEIGHT



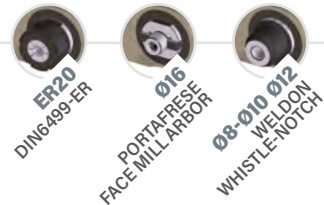
ROTAZIONE

ROTATION



CARATTERISTICHE

FEATURES

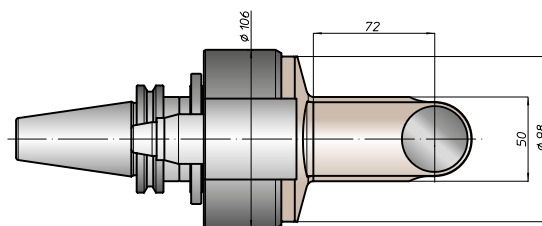
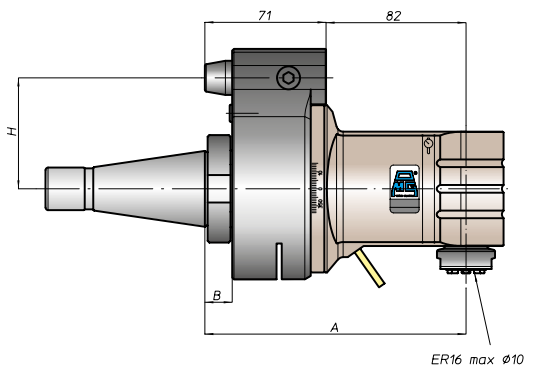
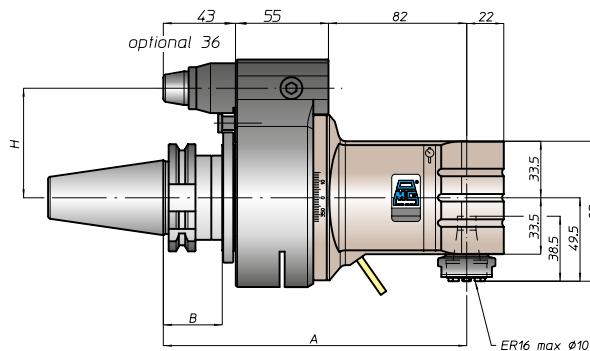
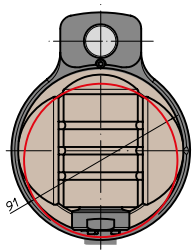


MANDRINI

DISPONIBILI

AVAILABLE

SPINDLES



CONO

SHANK



DIN69871



ANSIB5.50

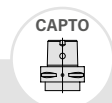


BT



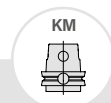
HSK

DIN69893



CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

30 40 45 50 40 50 40 50 63 80 100 C5 C6 C8 63 80 100 40 50 40 50

A

180 180 180 188 189 184 180 150 153 150 153

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80 65 80

H OPTIONAL

110 110 110 110 110 110 110 110

For DIN69871, ANSIB5.50 and BT, dual contact as option



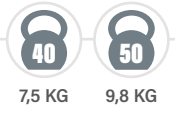


TA10.PL

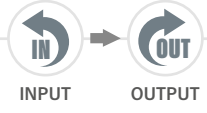
TESTA AD ANGOLO - ANGLE HEAD



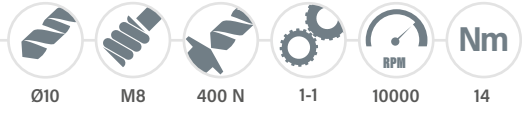
PESO
WEIGHT



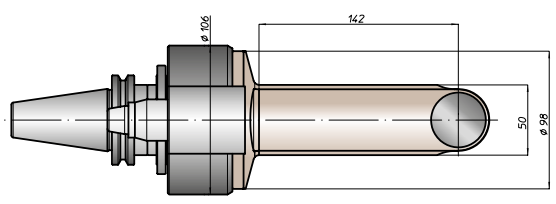
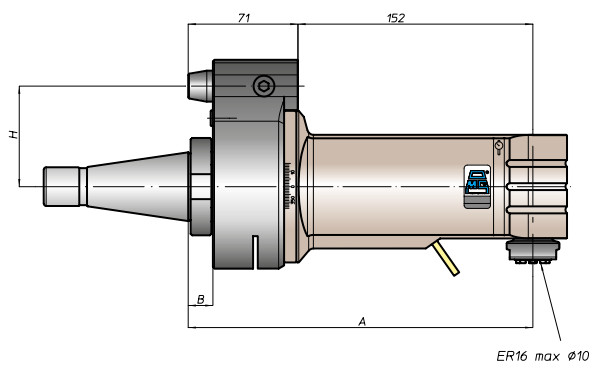
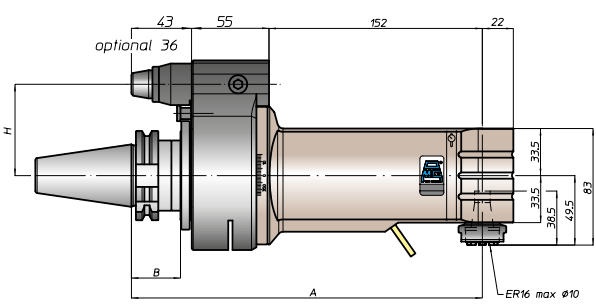
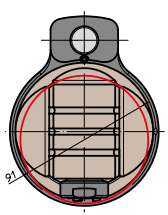
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK

	DIN69871			ANSIB5.50		BT		DIN69893			ISO26623			DIN2080		ANSIB5.18					
SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50	
A	250			250		250	258	259			254			250			220	223	220	223	
B	35			35		35	45	44	46		39	41			13	16		13	16		
H STANDARD	65	80		65	80	65	80	65	80		65	80	65	80	65	80	65	80	65	80	
H OPTIONAL		110			110		110		110			110		110		110		110		110	

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOX

HT

4-27

VH

TSI/TSX

T

MT-TC-TC3



TA13.P

TESTA AD ANGOLO - ANGLE HEAD



6,5 KG



9 KG

PESO

WEIGHT



INPUT



OUTPUT

ROTAZIONE

ROTATION



Ø13



M10



810 N



1-1



8000



38

CARATTERISTICHE

FEATURES



ER25

DIN6499-ER



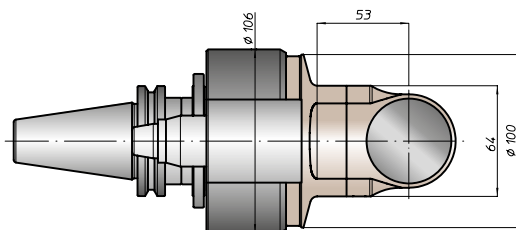
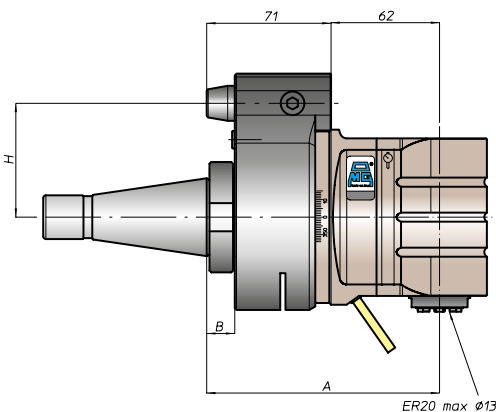
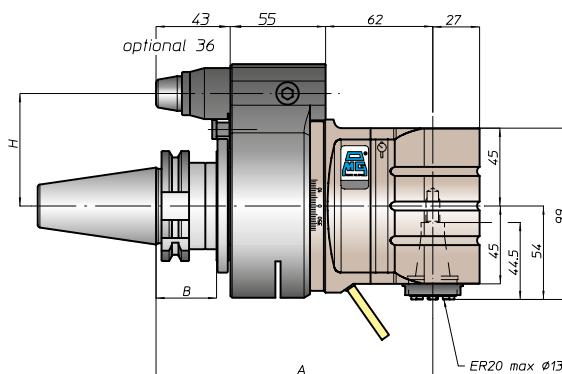
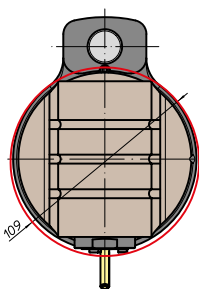
Ø16-Ø22

PORTA-FRESE
FACE MILL ARBOR

Ø16

WELD ON
WHISTLE-NOTCH

ABS25

LICENZA KOMET®
KOMET LICENCE®MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50

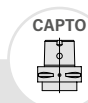


BT



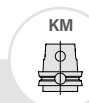
HSK

DIN69893



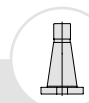
CAPTO

ISO26623



KM

63 80 100



DIN2080

40 50



ANSIB5.18

40 50

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

160

160

160

168

169

164

160

130

133

130

133

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



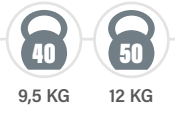


TA13.PL

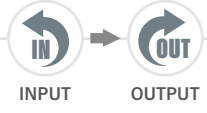
TESTA AD ANGOLO - ANGLE HEAD



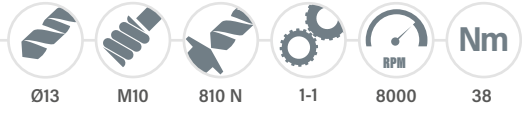
PESO WEIGHT



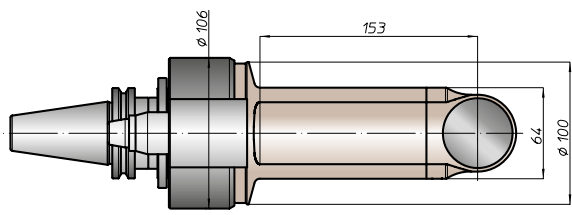
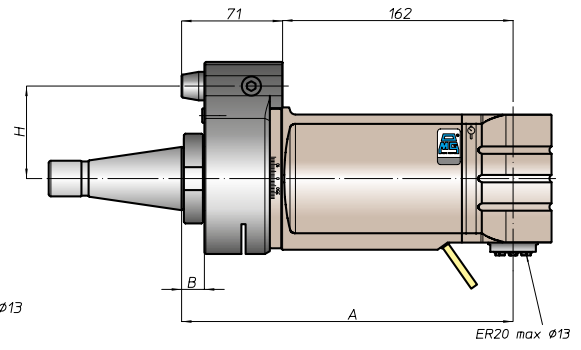
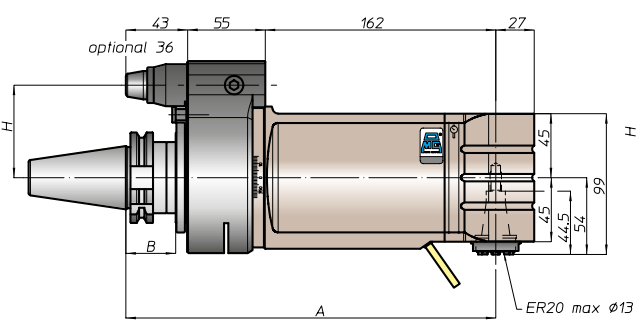
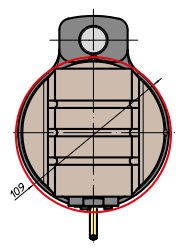
ROTAZIONE ROTATION



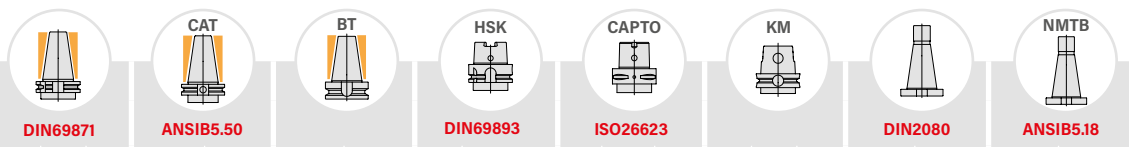
CARATTERISTICHE FEATURES



MANDRINI DISPONIBILI AVAILABLE SPINDLES



CONO SHANK



SIZE	DIN69871			ANSIB5.50		BT		DIN69893			CAPTO			KM			DIN2080		ANSIB5.18	
	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	260			260		260	268	269			264			260			230	233	230	233
B	35			35		35	45	44	46		39	41					13	16	13	16
H STANDARD	65	80		65	80	65	80	65	80		65	80	65	80	65	80	65	80	65	80
H OPTIONAL	110			110		110		110			110			110			110		110	

For DIN69871, ANSIB5.50 and BT, dual contact as option

TA16.P

TESTA AD ANGOLO - ANGLE HEAD



7,7 KG

11,7 KG

PESO

WEIGHT

INPUT

OUTPUT

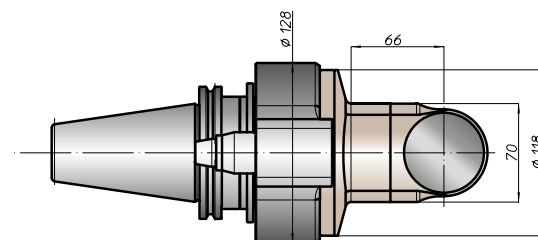
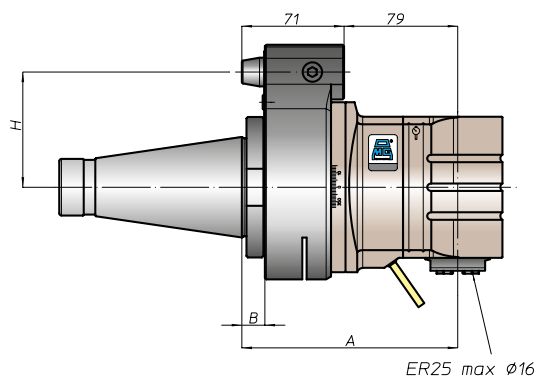
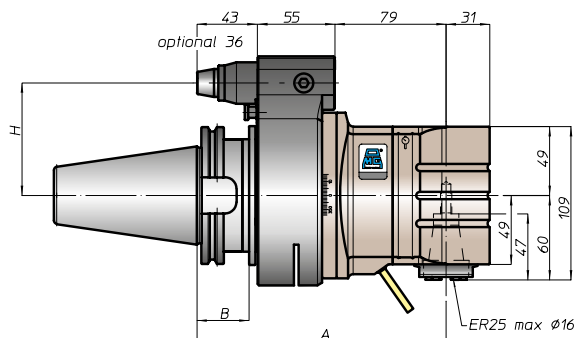
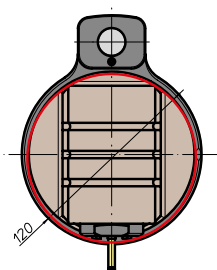
ROTAZIONE

ROTATION



CARATTERISTICHE

FEATURES

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50

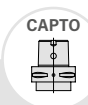


BT



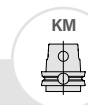
HSK

DIN69893

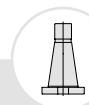


CAPTO

ISO26623



KM



DIN2080



ANSIB5.18

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

172

177

172

177

172

185

181

186

176

181

172

177

147

150

142

150

B

35

37

35

37

35

45

44

46

39

41

35

37

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option

TA16.PL

TESTA AD ANGOLO - ANGLE HEAD



15,5 KG



INPUT



OUTPUT



Ø16



M12



1040 N



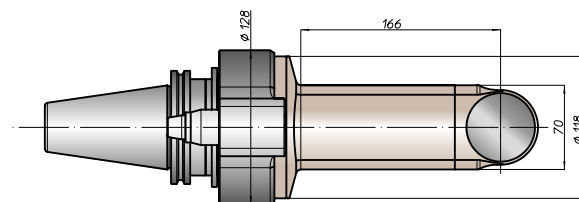
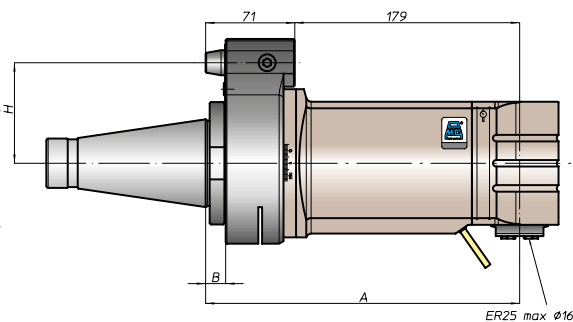
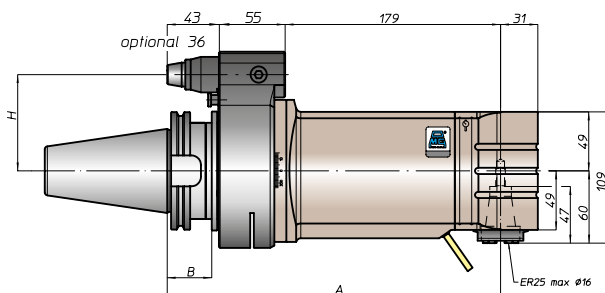
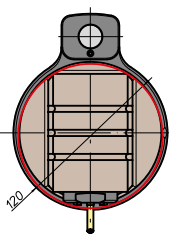
1-1



5000



55

ER32
DIN6499-ERØ16-Ø22-Ø27-Ø32
PORTAFRESE
FACE MILL ARBORØ20
WELDON
WHISTLE-NOTCHHSK32
DIN69893-HSKC3
COROMANT CAPTO®ABS32
LICENZA KOMET®
KOMET LICENCES®CONO
SHANK

DIN69871



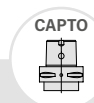
ANSIB5.50



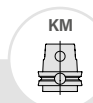
BT



DIN69893



ISO26623



KM



DIN2080



ANSIB5.18

SIZE

45 | 50

50

50

80 | 100

C6 | C8

80 | 100

50

50

A

277

277

285

286

281

277

250

250

B

35

35

45

46

39

41

16

16

H STANDARD

80

80

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option

TA20.P

TESTA AD ANGOLO - ANGLE HEAD



14,5 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø20



M14



1460 N



1-1



3500

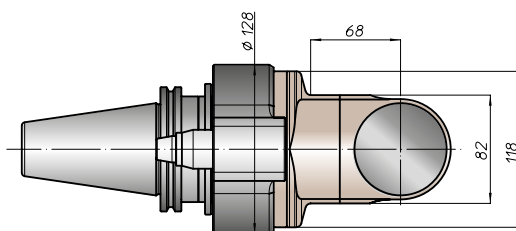
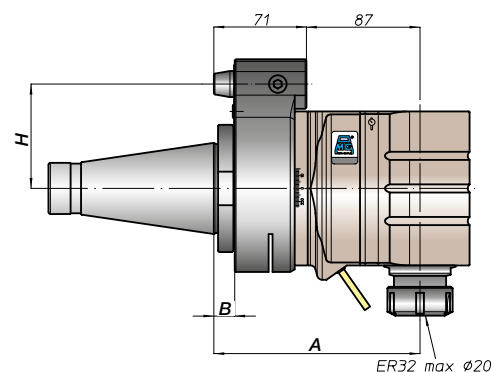
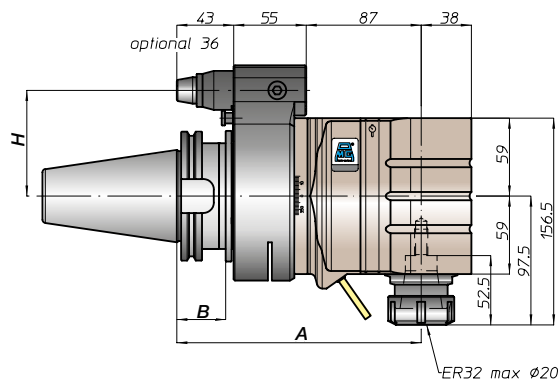
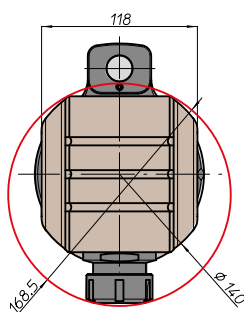


90

CARATTERISTICHE
FEATURESER40
DIN6499-ERØ22-Ø27-Ø32
PORTAFRESSE
FACE MILL-ARBORØ20-Ø25-Ø32
WHISTLE-NOTCHHSK40
DIN69893-HSK

C4

COROMANT CAPTO®

ABS40
LICENZA KOMET®
KOMET LICENCE®MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50



BT



HSK



CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

80

100

50

50

A

185

185

193

194

189

185

158

158

B

35

35

45

46

41

16

16

16

H STANDARD

80

80

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option

TA20.PL

TESTA AD ANGOLO - ANGLE HEAD



PESO WEIGHT

50
19 KG

ROTAZIONE ROTATION

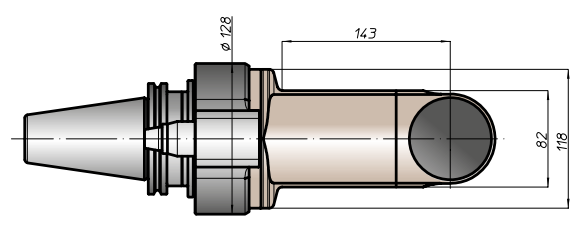
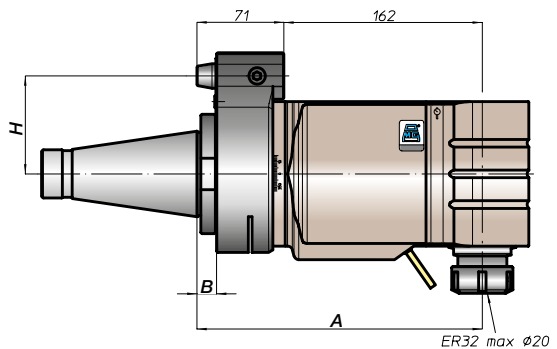
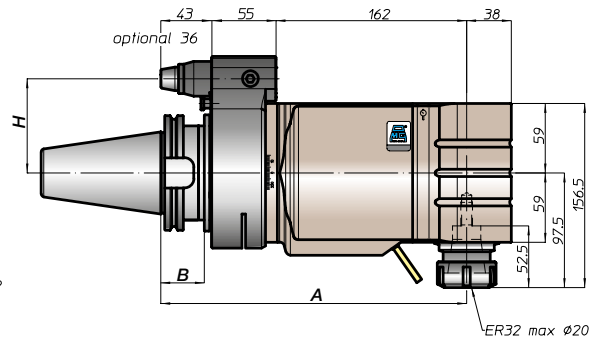
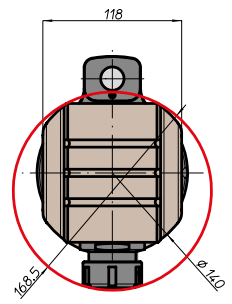
INPUT OUTPUT

CARATTERISTICHE FEATURES

Ø20 M14 1460 N 1-1 3500 90

MANDRINI DISPONIBILI AVAILABLE SPINDLES

ER40 DING499-ER
Ø22-Ø27-Ø32 PORTAFRESE FACE MILL ARBOR
Ø20-Ø25-Ø32 WELDON WHISTLE-NOTCH
HSK40 DING6893-HSK
C4 COROMANT CAPTO®
ABS40 LICENZA KOMET® KOMET LICENCES®



CONO SHANK

DIN69871 ANSIB5.50 BT HSK CAPTO KM DIN2080 ANSIB5.18

SIZE	45	50	50	50	80	100	C8	80	100	50	50
A	260	260	268	269	264	260	233	233			
B	35	35	45	46	41	16	16				
H STANDARD	80	80	80	80	80	80	80	80			
H OPTIONAL	110	110	110	110	110	110	110	110			

For DIN69871, ANSIB5.50 and BT, dual contact as option



TA

EXTANDEDE GALLERY



PESO
WEIGHT



14,7 KG

ROTAZIONE
ROTATION



INPUT



OUTPUT

CARATTERISTICHE
FEATURES



Ø20



M14



1460 N



1-1



3500



Nm

90



TA20-30

TESTA AD ANGOLO - ANGLE HEAD

FH

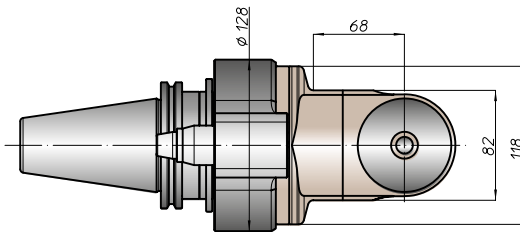
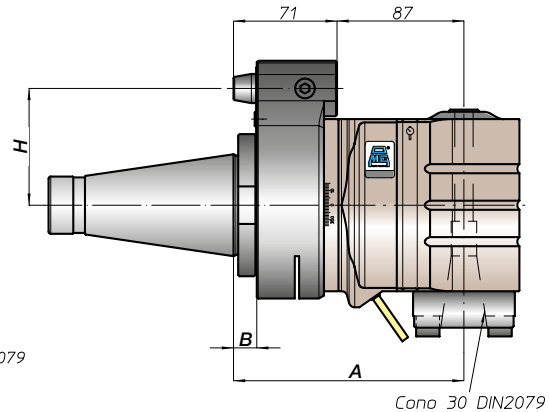
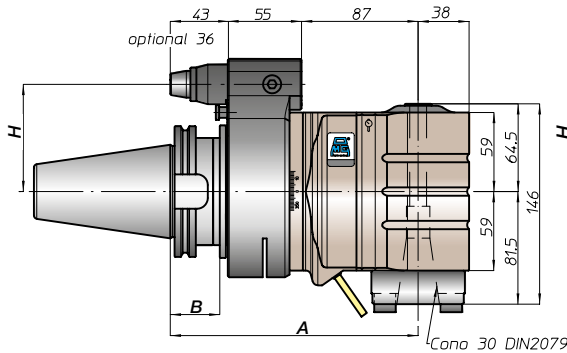
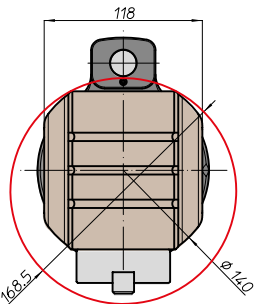
BAH

TA-CP

TA

MOX

HT



Nota

nel mandrino DIN2079 si possono utilizzare coni DIN2080-30, DIN69871-A30, MAS403-BT30

Nota

on the spindle DIN2079 you can use shank DIN2080-30, DIN69871-A30, MAS403-BT30

4-34

VH

TSI/TSX

T

MT-TC-TC3

CONO
SHANK



DIN69871



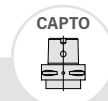
ANSIB5.50



BT

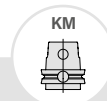


HSK



CAPTO

ISO26623



KM

80 | 100



DIN2080

50



NMTB

ANSIB18

SIZE

45 | 50

50

50

80 | 100

C8

80 | 100

50

50

A

185

185

193

194

189

185

158

158

B

35

35

45

46

41

16

16

H STANDARD

80

80

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-35

VH

TSI/TSX

T

MT-TC-TC3



TA26.P

TESTA AD ANGOLO - ANGLE HEAD



50
22 KG

PESO
WEIGHT

IN → **OUT**
INPUT OUTPUT

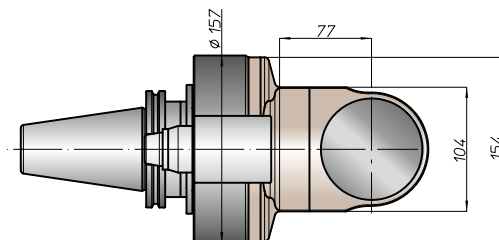
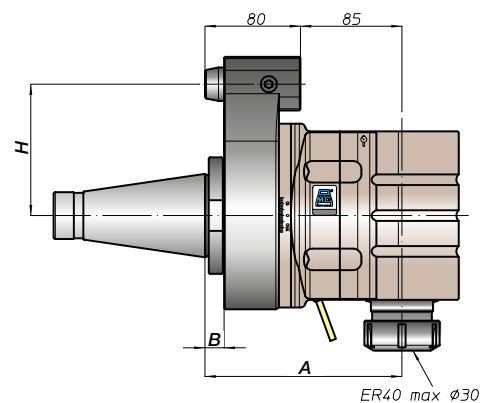
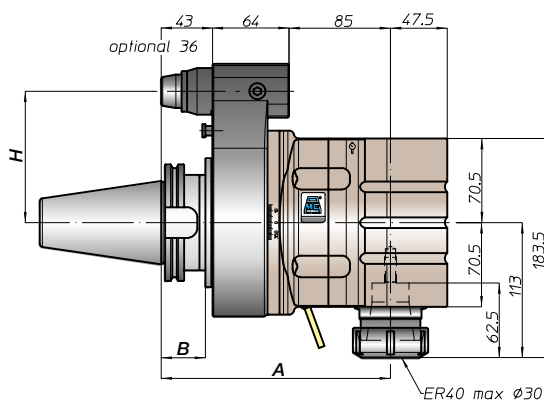
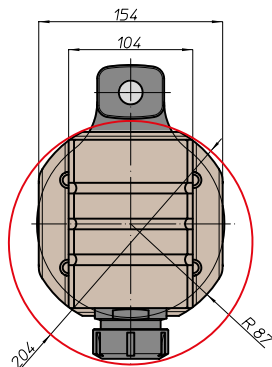
ROTAZIONE
ROTATION

Nm
165

CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



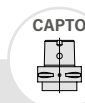
ANSIB5.50



BT

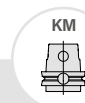


HSK



CAPTO

ISO26623



KM



DIN2080



ANSIB5.18

SIZE

45

50

50

50

80

100

C8

100

50

50

A

192

192

200

201

196

192

165

165

B

37

37

45

46

41

16

16

H STANDARD

110

110

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option

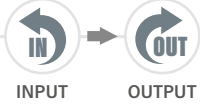


PESO
WEIGHT



22 KG

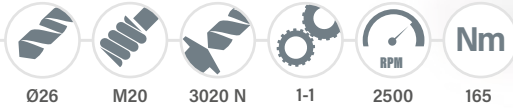
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø26

M20

3020 N

1-1

2500

165



TA26.40

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

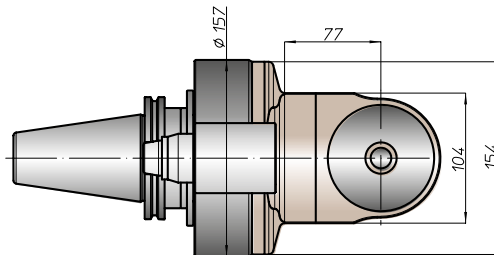
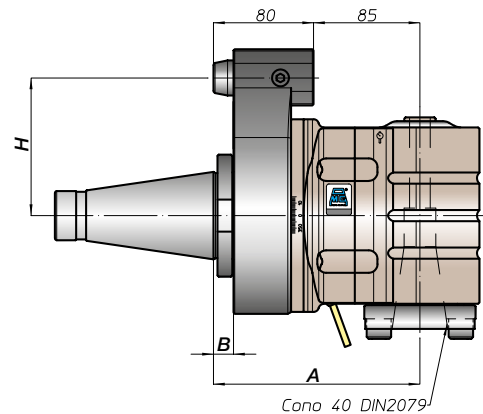
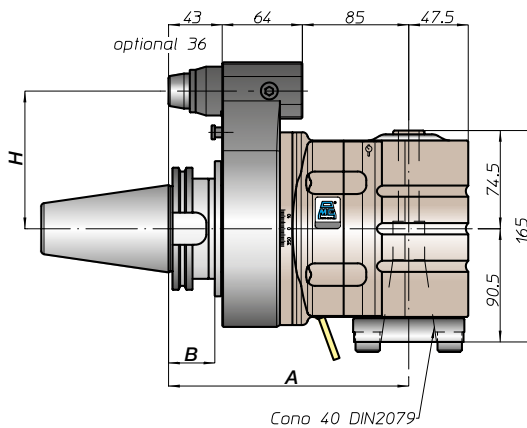
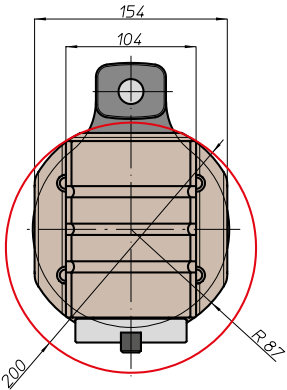
4-36

VH

TSI/TSX

T

MT-TC-TC3



Nota

nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Nota

on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

CONO
SHANK



DIN69871



ANSIB5.50



BT

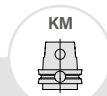


HSK



CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

100

50

50

A

192

192

200

201

196

192

165

165

B

37

37

45

46

41

16

16

16

H STANDARD

110

110

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOX

HT

4-37

VH

TSI/TSX

T

MT-TC-TC3



TA30.P

TESTA AD ANGOLO - ANGLE HEAD



24 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø30



M24



3500 N



1-1



2500



205

CARATTERISTICHE
FEATURES

Ø27-Ø32-Ø40
PORTA-PRESSE
FACE-MILL-ARBOR



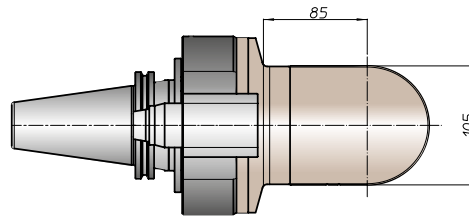
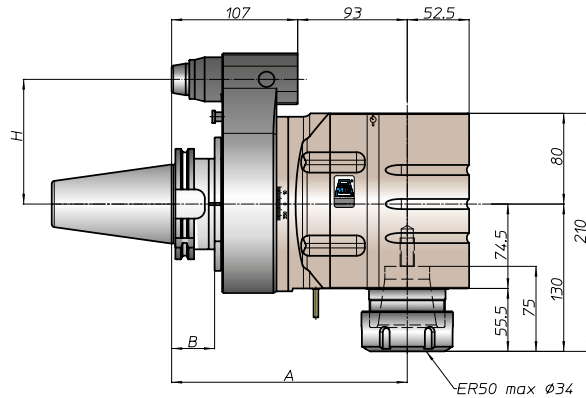
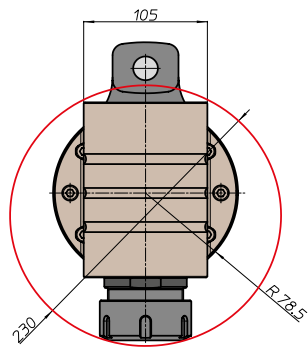
Ø32
WELDON
WHISTLE-NOTCH



HSK63
DIN69893-HSK



C6
COROMANT CAPTO®

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

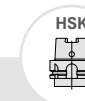
DIN69871



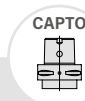
ANSIB5.50



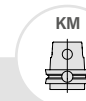
BT



DIN69893



ISO26623



KM



DIN2080



ANSIB5.18

SIZE

50

50

50

100

C8

A

200

200

208

209

204

B

36,5

36,5

45

46

41

H STANDARD

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option

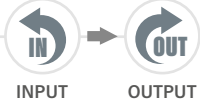


PESO
WEIGHT



24 KG

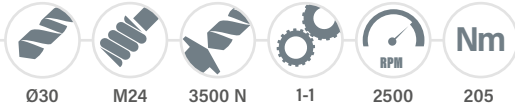
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø30

M24

3500 N

1-1

2500

Nm

205



TA30.40

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

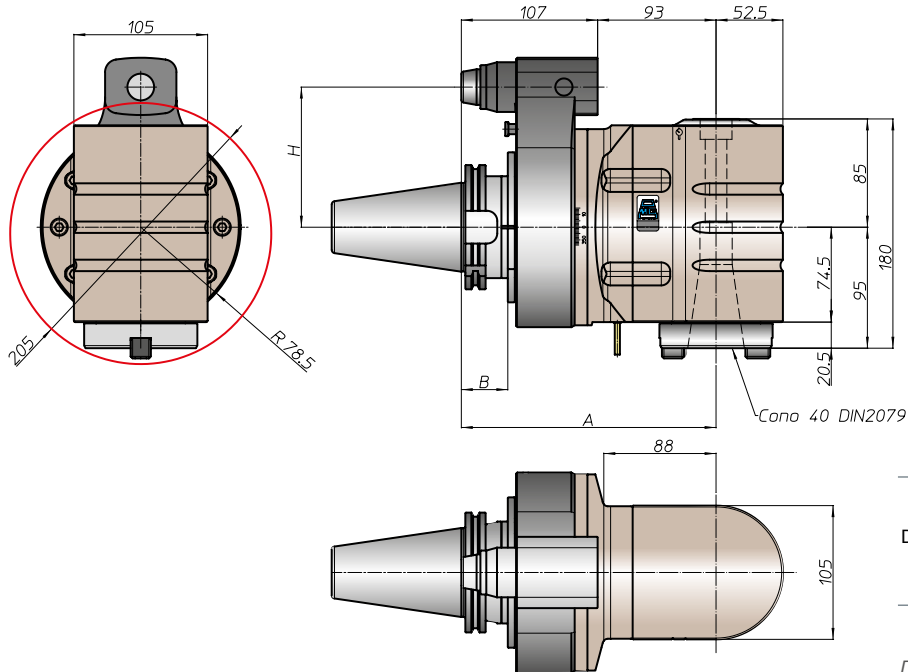
4-38

VH

TSI/TSX

T

MT-TC-TC3



Nota

nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Note

on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

CONO
SHANK



DIN69871



ANSIB5.50

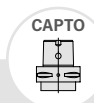


BT



HSK

DIN69893



CAPTO

ISO26623



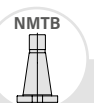
KM

100



DIN2080

50



NMTB

ANSIB5.18

50

SIZE

45	50	50	50	80	100	C8	100	50	50
----	----	----	----	----	-----	----	-----	----	----

A

200	200	208	209	204	200	200	200	200	200
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

B

35	35	45	46	41	16	16	16	16	16
----	----	----	----	----	----	----	----	----	----

H STANDARD

110	110	110	110	110	110	110	110	110	110
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

H OPTIONAL

--	--	--	--	--	--	--	--	--	--

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOx

HT

4-39

VH

TSI/TSX

T

MT-TC-TC3



SERIE

TAL

LIGHT





Nuove Teste ad Angolo, quando la leggerezza è una priorità.

Le nuove Teste ad Angolo della serie TAL sono state realizzate con l'obiettivo di ottenere un prodotto leggero, che potesse essere applicato su macchine ATC dove il peso dell'utensile è considerato una limitazione. Un prodotto più leggero quindi, che non vede limiti nelle possibili lavorazioni le quali rimangono le stesse di una normale Testa ad Angolo O.M.G. Anche questa gamma si contraddistingue per la qualità con cui le teste vengono realizzate, che rimane sempre alta, come tutti i prodotti O.M.G.

Disponibili in diversi modelli, queste teste ad angolo vanno dalla piccola TAL07 alla grande TAL26.

New Angle Heads, when lightness is a priority.

The goal was to develop a product series that could be applied on machines with ATC where the weight of the head represents a limitation. A lighter weight product therefore, that does not limit the possible machining operations, with the same performance to our standard O.M.G. Angle Heads. This range also stands out for the high quality our customers have come to appreciate for all O.M.G. products.

Available in different models, these heads start from the small TAL07 to our large TAL26.

FH

BAH

TA.CP

TA

MOX

HT

4-41

VH

TSI/TSX

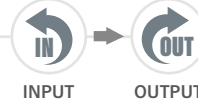
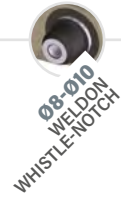
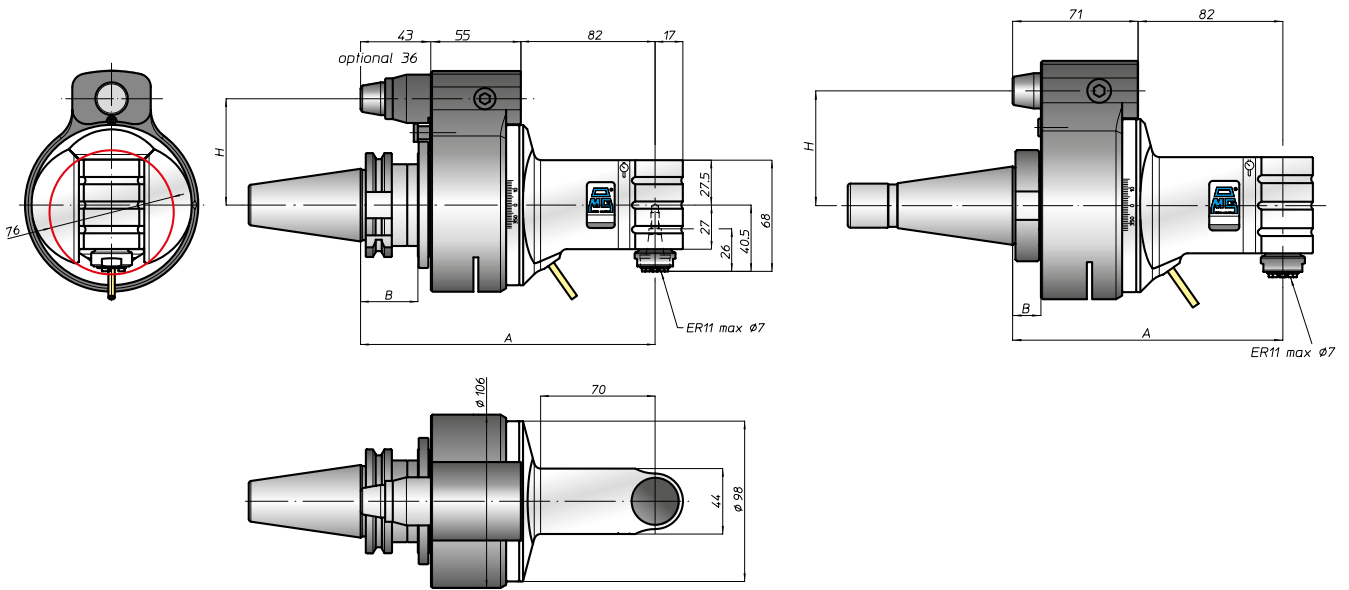
T

MT-TC-TC3



TAL07

TESTA AD ANGOLO - ANGLE HEAD

PESO
WEIGHTROTAZIONE
ROTATIONCARATTERISTICHE
FEATURESMANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50

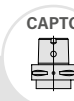


BT



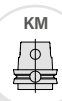
HSK

DIN69893



CAPTO

ISO26623



KM



DIN2080



ANSIB5.18

SIZE

30 40 45 50 40 50 40 50 63 80 100

C5 C6 C8

63 80 100

40 50 40 50

A

180 180 180 188 189 184 180 150 153 150 153

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80

H OPTIONAL

110 110 110 110 110 110 110 110

For DIN69871, ANSIB5.50 and BT, dual contact as option



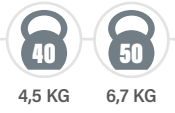


TAL10

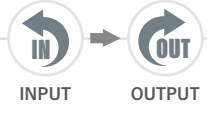
TESTA AD ANGOLO - ANGLE HEAD



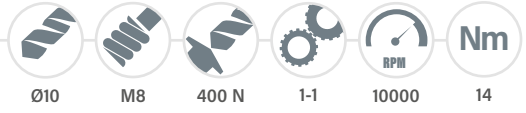
PESO
WEIGHT



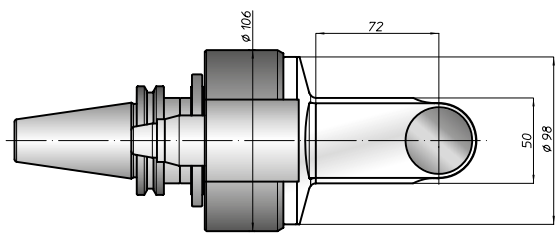
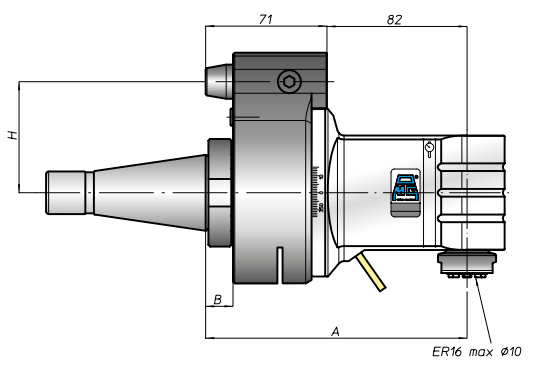
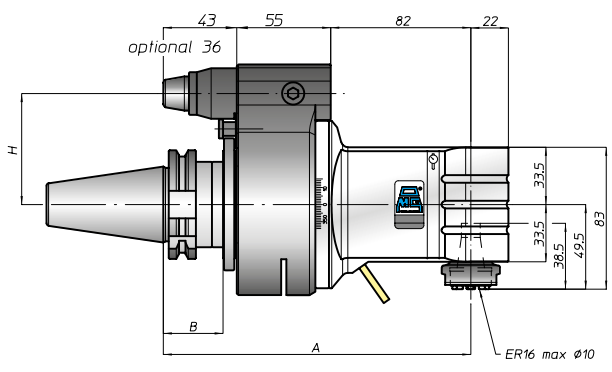
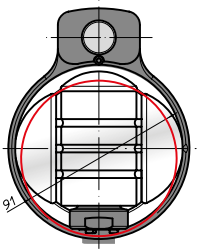
ROTAZIONE
ROTATION



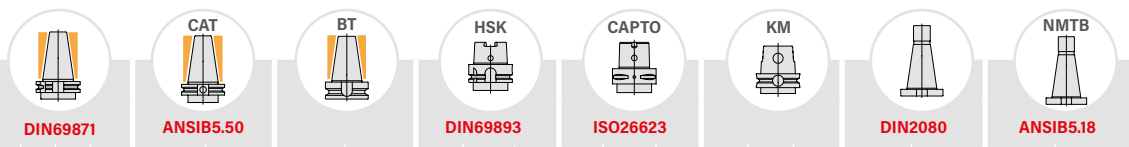
CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



SIZE	DIN69871				ANSIB5.50		BT		DIN69893			ISO26623			KM			DIN2080		ANSIB5.18	
A	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	180				180		180	188	189			184			180			150	153	150	153
B	35				35		35	45	44	46		39	41				13	16	13	16	
H STANDARD	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80	
H OPTIONAL	110				110		110		110			110			110		110		110		

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOx

HT

4-43

VH

TSI/TSX

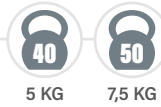
T

MT-TC-TC3



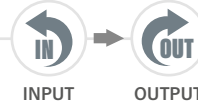
TAL13

TESTA AD ANGOLO - ANGLE HEAD



5 KG

7,5 KG

PESO
WEIGHT

INPUT

OUTPUT

ROTAZIONE
ROTATION

Ø13

M10

810 N

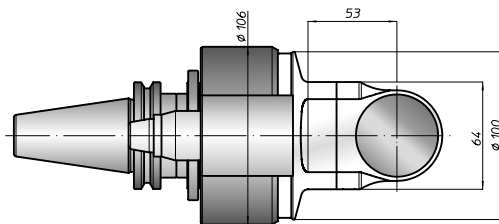
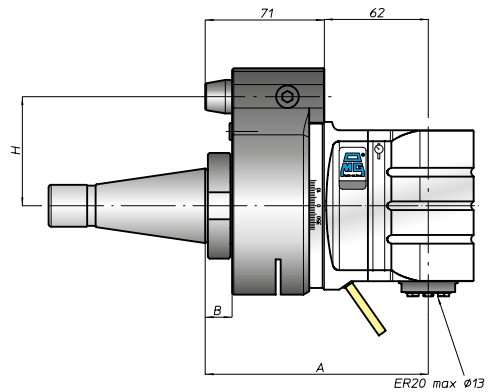
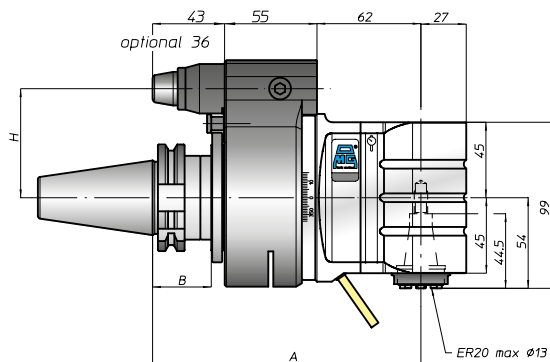
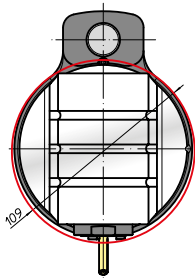
1-1

8000

RPM

Nm

38

CARATTERISTICHE
FEATURESER25
DIN6499-ERØ16-Ø22
PORTAFRESE
FACE MILL ARBORØ16
WELD DON
WHISTLE-NOTCHABS25
LICENZA KOMET®
KOMET LICENCE®MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50

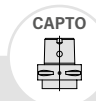


BT



HSK

DIN69893



CAPTO

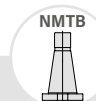
ISO26623



KM



DIN2080



ANSIB5.18

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

160

160

160

168

169

164

160

130

133

130

133

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

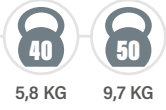
110

110

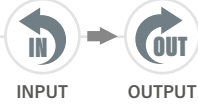
For DIN69871, ANSIB5.50 and BT, dual contact as option



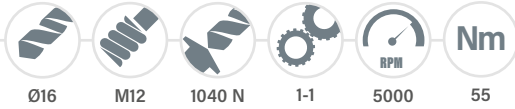
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



TAL16

TESTA AD ANGOLO - ANGLE HEAD

FH

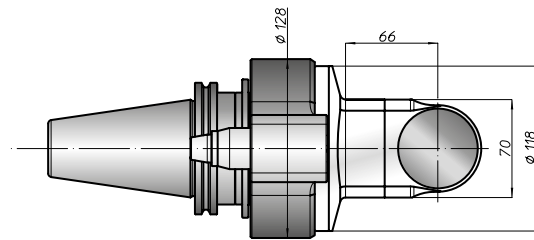
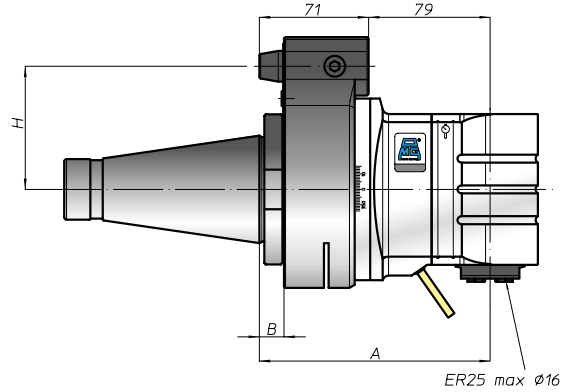
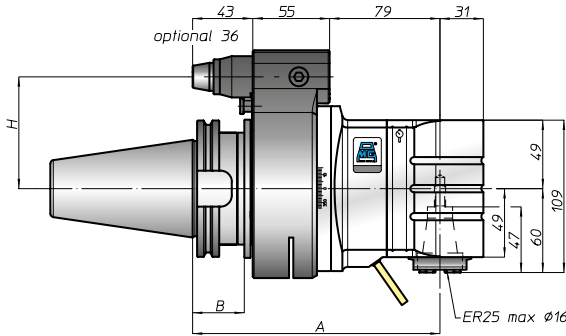
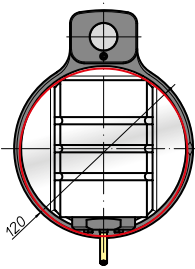
BAH

TA.CP

TA

MOX

HT



4-44

VH

TSI/TSX

T

MT-TC-TC3

CONO
SHANK

	ANSIB5.50			BT		DIN69893			ISO26623			DIN2080			ANSIB5.18					
SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	172	177		172	177	172	185	181	186		176	181		172	177		147	150	142	150
B		35		35		35	45	44	46		39	41		13	16		13	16	13	16
H STANDARD	65	80		65	80	65	80	65	80		65	80	65	65	80		65	80	65	80
H OPTIONAL		110		110		110		110				110		110			110		110	

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-45

VH

TSI/TSX

T

MT-TC-TC3



TAL20

TESTA AD ANGOLO - ANGLE HEAD



11,5 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø20



M14



1460 N



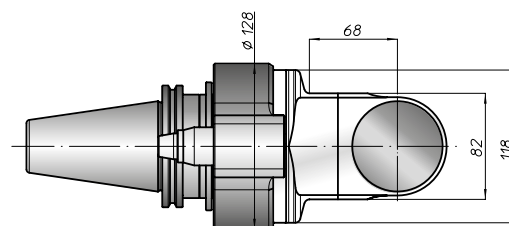
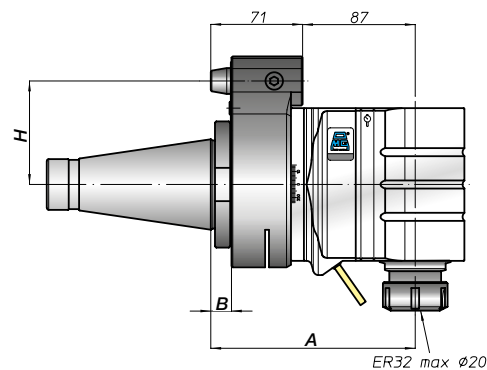
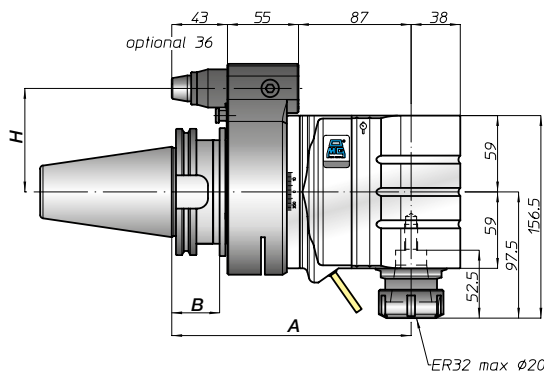
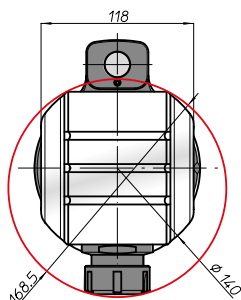
1-1



3500



90

CARATTERISTICHE
FEATURESER40
DIN6499-ERØ22-Ø27-Ø32
PORTAFRESSE
FACE MILL ARBORØ20-Ø25-Ø32
WHISTLE-NOTCHHSK40
DIN69893-HSKC4
COROMANT CAPTO®ABS40
LICENZA KOMET®
KOMET LICENCE®MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



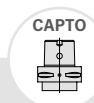
ANSIB5.50



BT



HSK



CAPTO

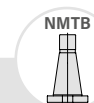
ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

80

100

50

50

A

185

185

193

194

189

185

158

158

B

35

35

45

46

41

16

16

H STANDARD

80

80

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option

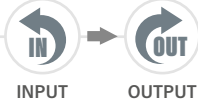


PESO
WEIGHT



19 KG

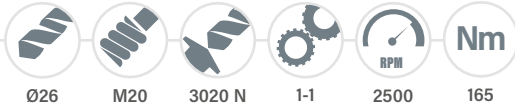
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø26

M20

3020 N

1-1

2500

165

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



ER50

DIN6499-ER

Ø16-Ø27-Ø32-Ø40
PORTAFRESE
FACE MILL ARBOR

Ø32

WELDON
WHISTLE-NOTCH

HSK63

DIN69893-HSK

C4-C5-C6

COROMANT CAPTO®

ABS50

LICENZA KOMET®
KOMET LICENCES®



TAIL26

TESTA AD ANGOLO - ANGLE HEAD

FH

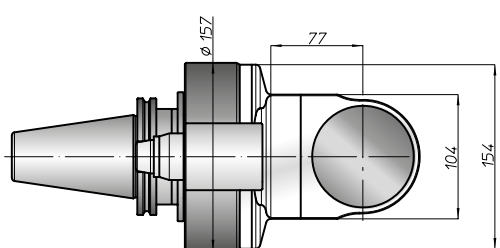
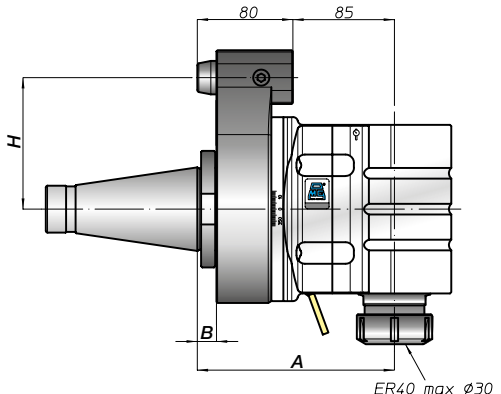
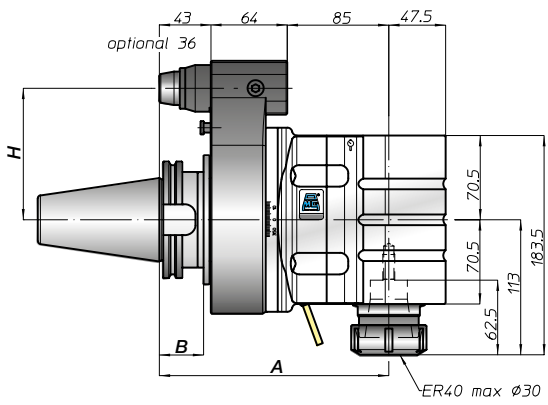
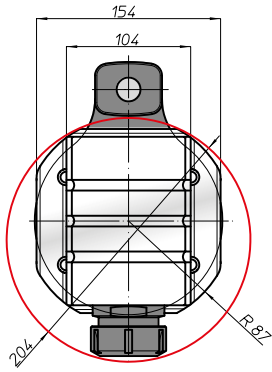
BAH

TA.CP

TA

MOX

HT



4-46

VH

TSI/TSX

T

MT-TC-TC3

CONO
SHANK



DIN9871



ANSIB5.50



BT



HSK



CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

100

50

50

A

192

192

200

201

196

192

165

165

B

37

37

45

46

41

16

16

H STANDARD

110

110

110

110

110

110

110

110

H OPTIONAL

For DIN9871, ANSIB5.50 and BT, dual contact as option





TAL26.40

TESTA AD ANGOLO - ANGLE HEAD



19 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø26



M20



3020 N



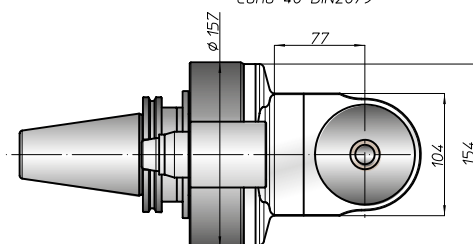
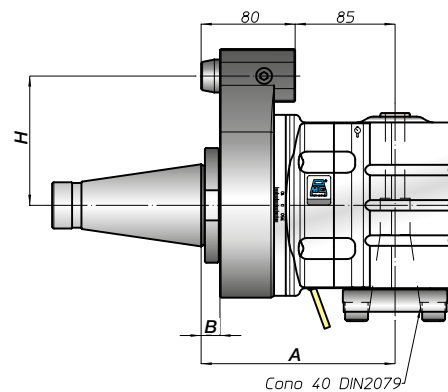
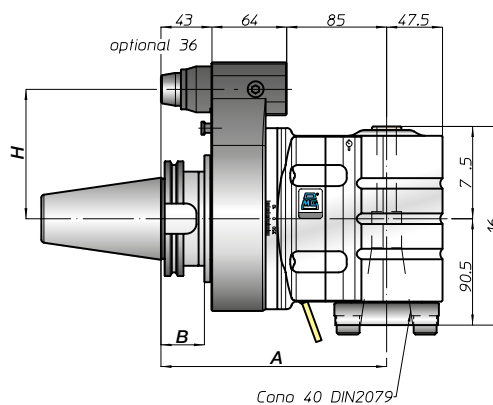
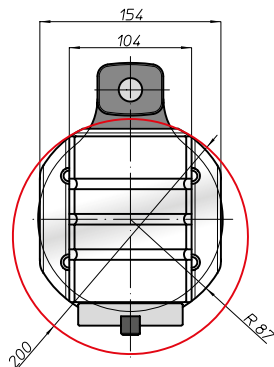
1-1



2500



165

CARATTERISTICHE
FEATURES

Nota

nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Note

on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

CONO
SHANK

DIN69871



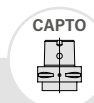
ANSIB5.50



BT



HSK



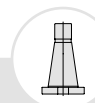
CAPTO

ISO26623



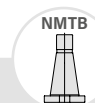
KM

100



DIN2080

50



NMTB

ANSIB5.18

50

SIZE

45

50

50

50

80

100

C8

100

50

50

A

192

192

200

201

196

192

165

165

B

37

37

45

46

41

16

16

16

H STANDARD

110

110

110

110

110

110

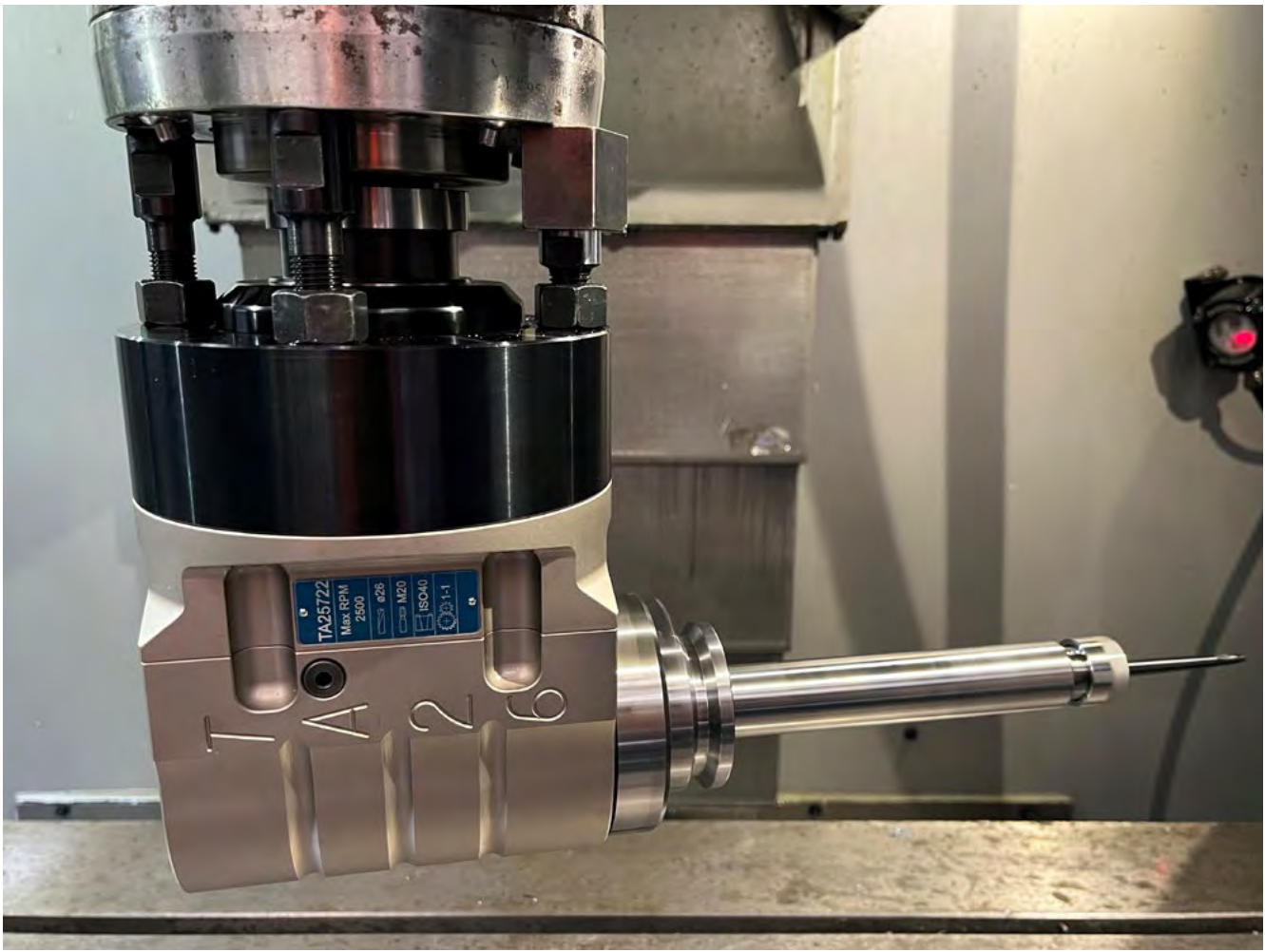
110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option





FH

BAH

TA.CP

TA

MOX

HT

4-49

VH

TSI/TSX

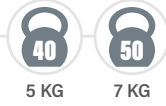
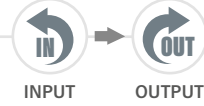
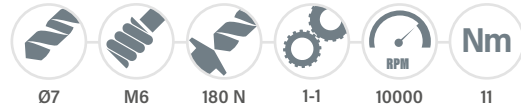
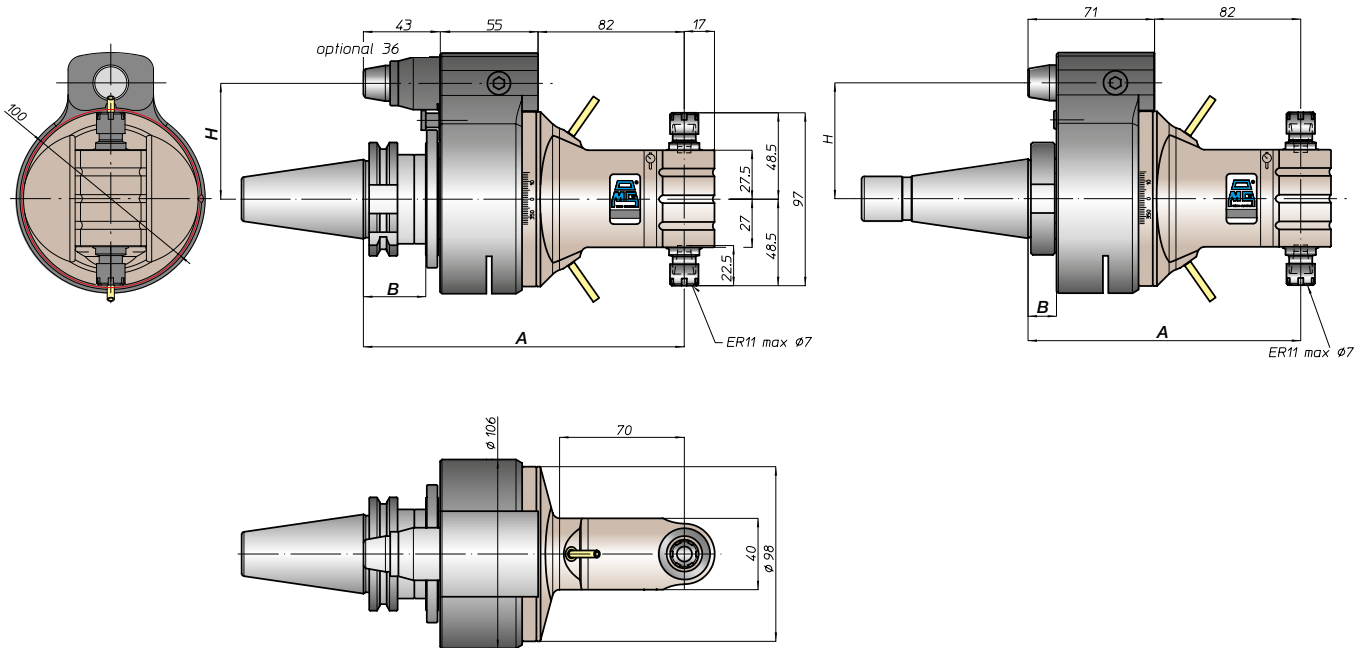
T

MT-TC-TC3



TA07.2P

TESTA AD ANGOLO - ANGLE HEAD

PESO
WEIGHTROTAZIONE
ROTATIONCARATTERISTICHE
FEATURESMANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50

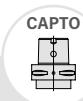


BT



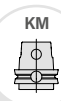
HSK

DIN69893



CAPTO

ISO26623



KM

63 80 100



DIN2080

40 50



ANSIB5.18

40 50

SIZE

30 40 45 50 40 50 40 50 63 80 100

C5 C6 C8

63 80 100

40 50

40 50

A

180 180 180 188 189 184 180 150 153 150 153

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80

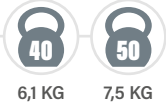
H OPTIONAL

110 110 110 110 110 110 110 110

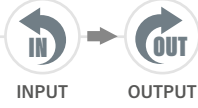
For DIN69871, ANSIB5.50 and BT, dual contact as option



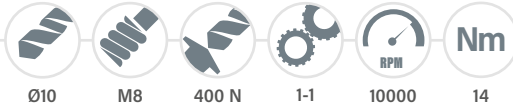
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



TA10.2P

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

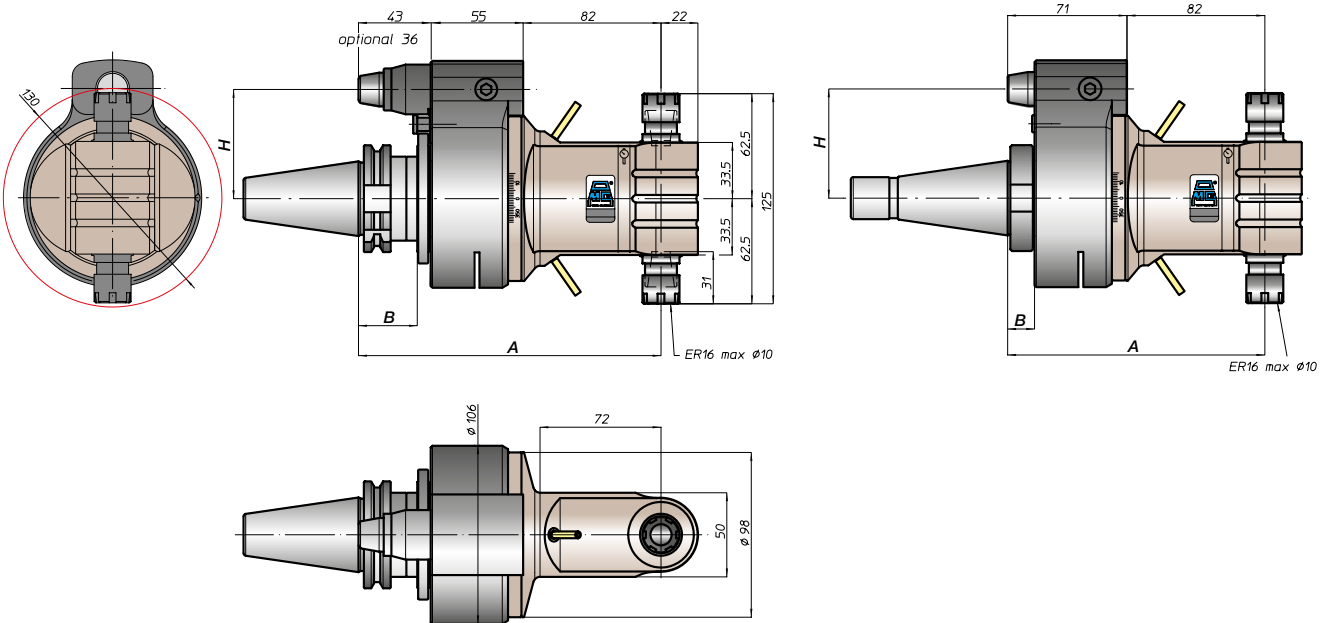
4-50

VH

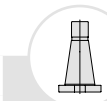
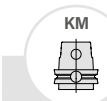
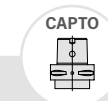
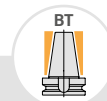
TSI/TSX

T

MT-TC-TC3



CONO
SHANK



SIZE

30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
----	----	----	----	----	----	----	----	----	----	-----	----	----	----	----	----	-----	----	----	----	----

A

180	180	180	188	189	184	180	150	153	150	153
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

B

35	35	35	45	44	46	39	41	13	16	13	16
----	----	----	----	----	----	----	----	----	----	----	----

H STANDARD

65	80	65	80	65	80	65	80	65	80	65	80	65	80
----	----	----	----	----	----	----	----	----	----	----	----	----	----

H OPTIONAL

	110		110		110		110		110		110		110
--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOX

HT

4-51

VH

TSI/TSX

T

MT-TC-TC3



TA13.2P

TESTA AD ANGOLO - ANGLE HEAD



40
6,5 KG

50
9 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø13



M10



810 N



1-1



8000



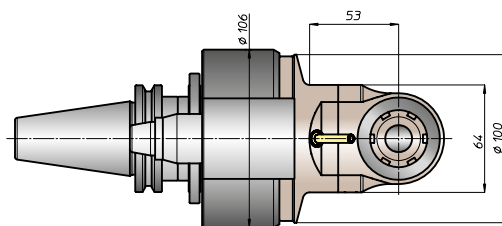
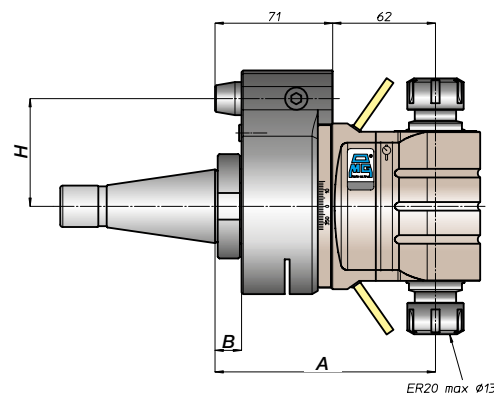
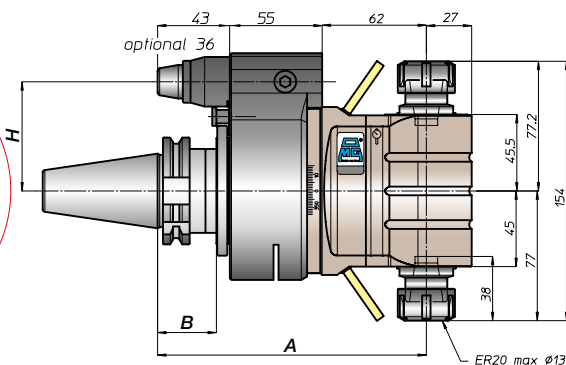
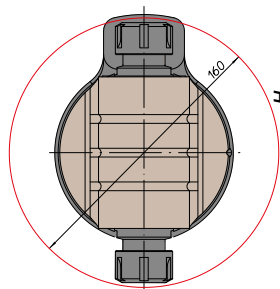
38

CARATTERISTICHE
FEATURES



ER25
DIN6499-ER

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



ANSIB5.50

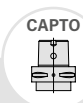


BT



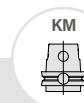
HSK

DIN69893



CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

160

160

160

168

169

164

160

130

133

130

133

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



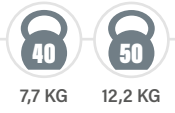


TA16.2P

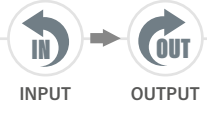
TESTA AD ANGOLO - ANGLE HEAD



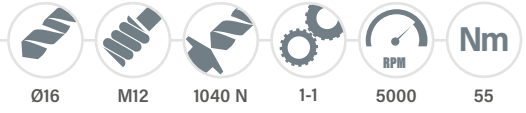
PESO
WEIGHT



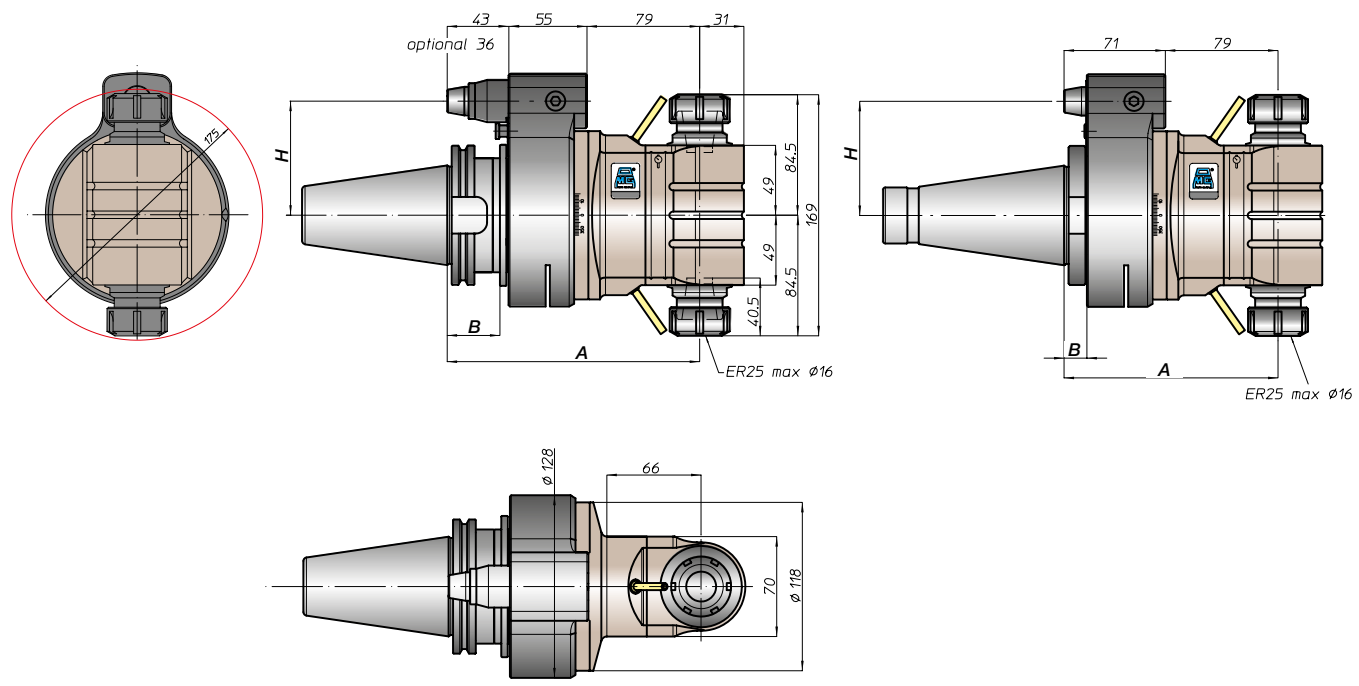
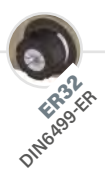
ROTAZIONE
ROTATION



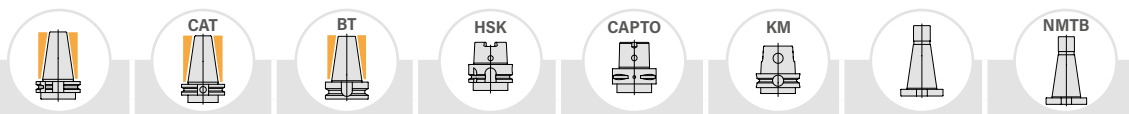
CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	172	177	172	177	172	185	181	186	176	181	172	177	147	150	142	150				
B		35		35	35	45	44	46			39	41		13	16	13	16			
H STANDARD	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80	65	80
H OPTIONAL		110		110	110	110	110	110			110	110		110	110		110			110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TA20.2P

TESTA AD ANGOLO - ANGLE HEAD



15 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø20



M14



1460 N



1-1



3500



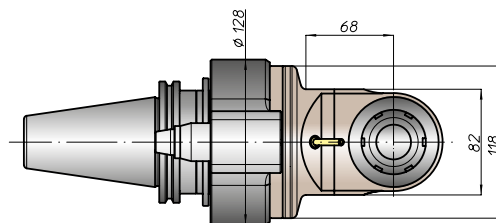
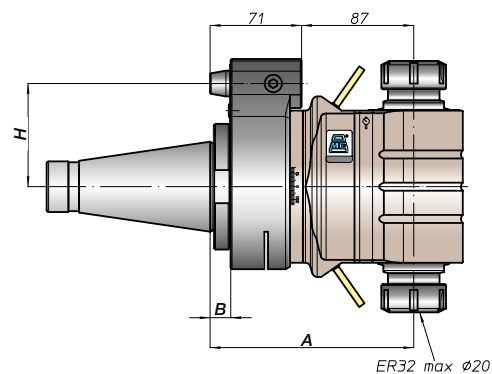
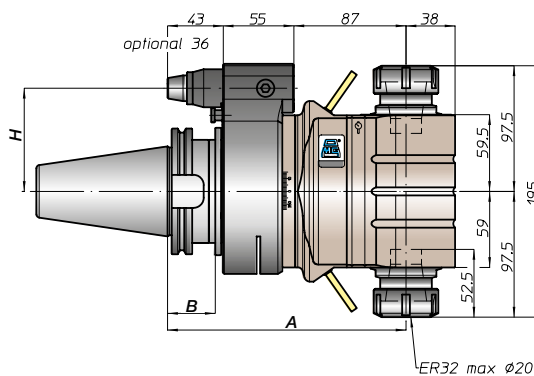
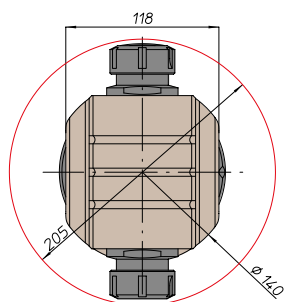
90

CARATTERISTICHE
FEATURES

Ø27-Ø32
PORTAFRESSE
FACE MILL ARBOR



Ø20
WELDON
WHISTLE-NOTCH

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



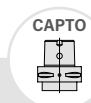
ANSIB5.50



BT

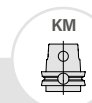


HSK

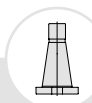


CAPTO

ISO26623



KM



DIN2080

DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

80

100

50

50

A

185

185

193

194

189

185

158

158

B

35

35

45

46

41

16

16

16

H STANDARD

80

80

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

110

110

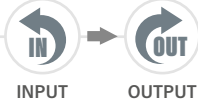
For DIN69871, ANSIB5.50 and BT, dual contact as option

PESO
WEIGHT



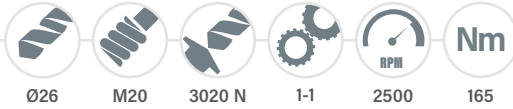
22,5 KG

ROTAZIONE
ROTATION



INPUT OUTPUT

CARATTERISTICHE
FEATURES



Ø26 M20 3020 N 1-1 2500 165

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



Ø16-Ø27-Ø32
PORTA-FRESA
FACE-MILL ARBOR

Ø32
WELDON
WHISTLE-NOTCH

ABS50
LICENZA KOMET®
KOMET LICENCES®



TA26.2P

TESTA AD ANGOLO - ANGLE HEAD

FH

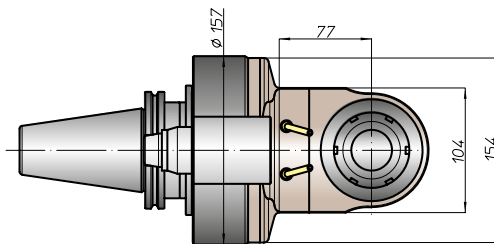
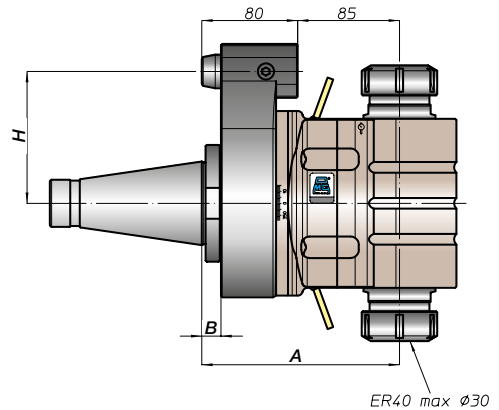
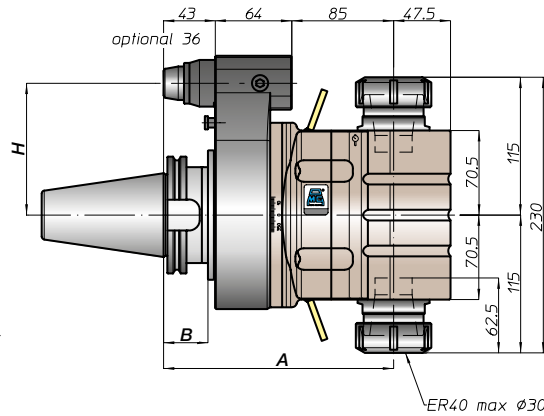
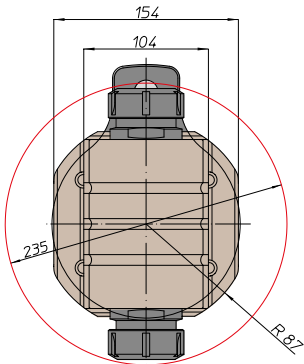
BAH

TA-CP

TA

MOX

HT



4-54

VH

TSI/TSX

T

MT-TC-TC3

CONO
SHANK



DIN69871



ANSIB5.50



BT



HSK



CAPTO

ISO26623



KM

100



DIN2080

50



NMTB

ANSIB18

50

SIZE

45

50

50

50

80

100

C8

100

50

50

A

192

192

200

201

196

192

165

165

B

37

37

45

46

41

16

16

16

H STANDARD

110

110

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-55

VH

TSI/TSX

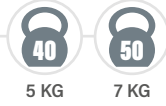
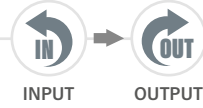
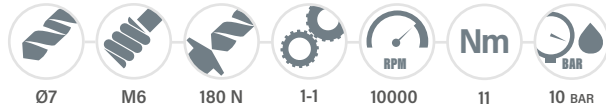
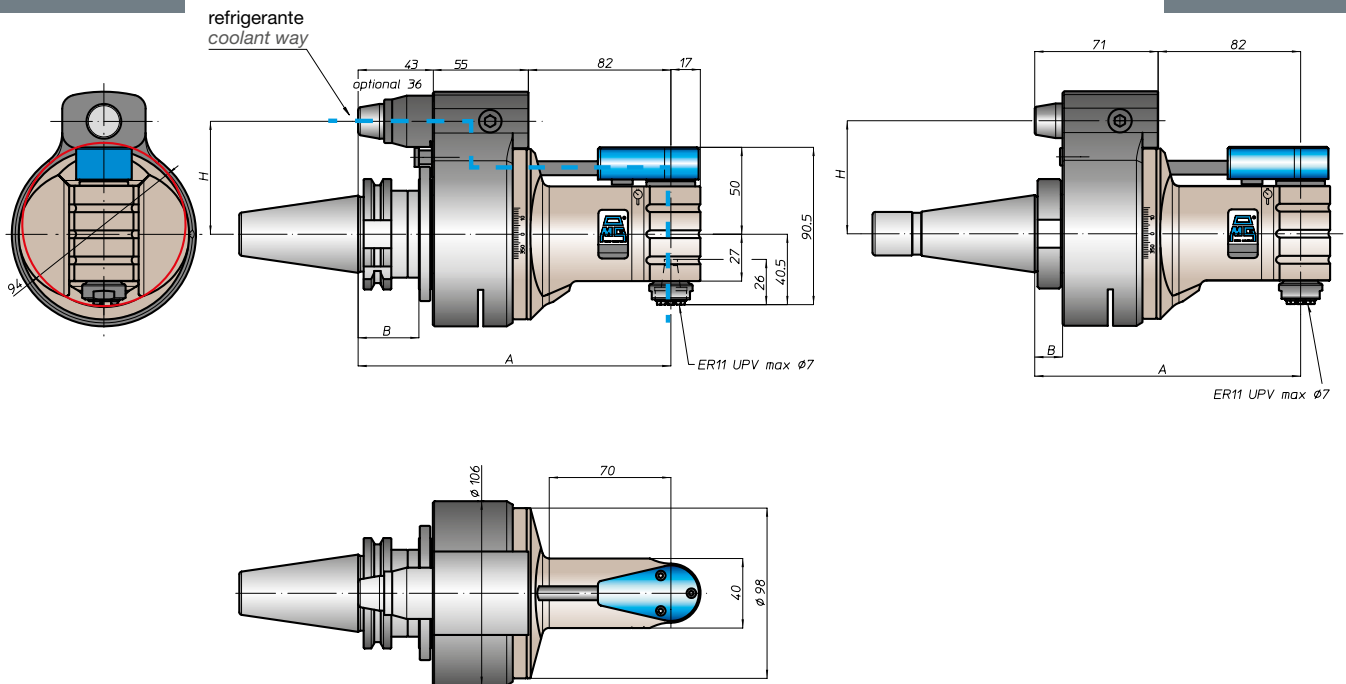
T

MT-TC-TC3



TA07.PD

TESTA AD ANGOLO - ANGLE HEAD

PESO
WEIGHTROTAZIONE
ROTATIONCARATTERISTICHE
FEATURESCONO
SHANK

DIN69871



ANSIB5.50

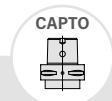


BT



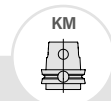
HSK

DIN69893



CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

30 40 45 50 40 50 40 50 63 80 100

C5 C6 C8

63 80 100

40 50

40 50

A

150

150

150 158

159

154

150

120 123

120 123

B

35

35

35 45

44 46

39 41

13 16

13 16

H STANDARD

65 80

65 80

65 80

65 80

65 80

65 80

65 80

65 80

H OPTIONAL

110

110

110

110

110

110

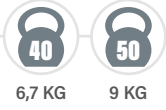
110

110

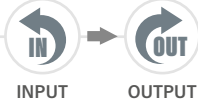
For DIN69871, ANSIB5.50 and BT, dual contact as option



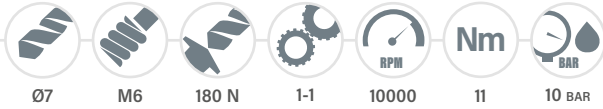
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



TA07.PDL

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

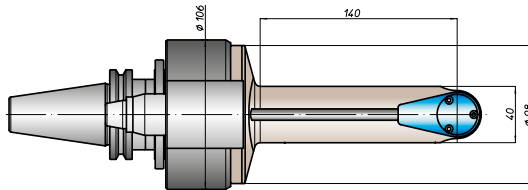
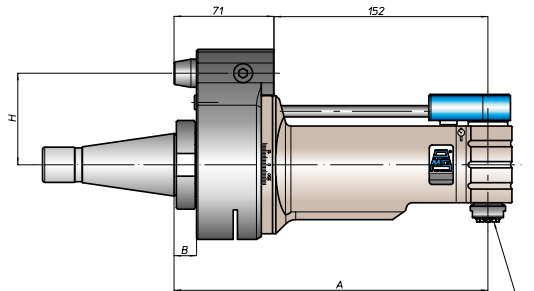
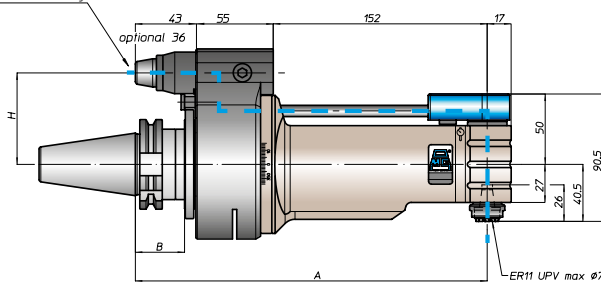
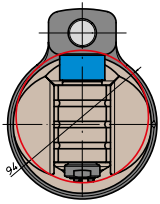
TA.CP

TA

MOX

HT

refrigerante
coolant way



4-56

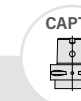
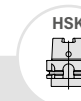
VH

TSI/TSX

T

MT-TC-TC3

CONO
SHANK



SIZE

A

B

H STANDARD

H OPTIONAL

	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50	
A	250			250		250	258	259		254		250		220	223	220	223	220	223		
B	35			35		35	45	44	46		39	41		13	16	13	16				
H STANDARD	65	80		65	80	65	80	65	80		65	80		65	80		65	80	65	80	
H OPTIONAL		110			110		110		110			110			110					110	

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-57

VH

TSI/TSX

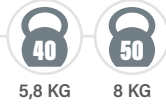
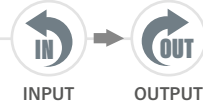
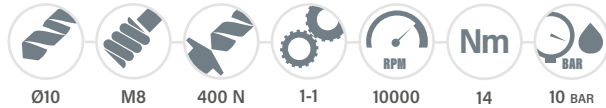
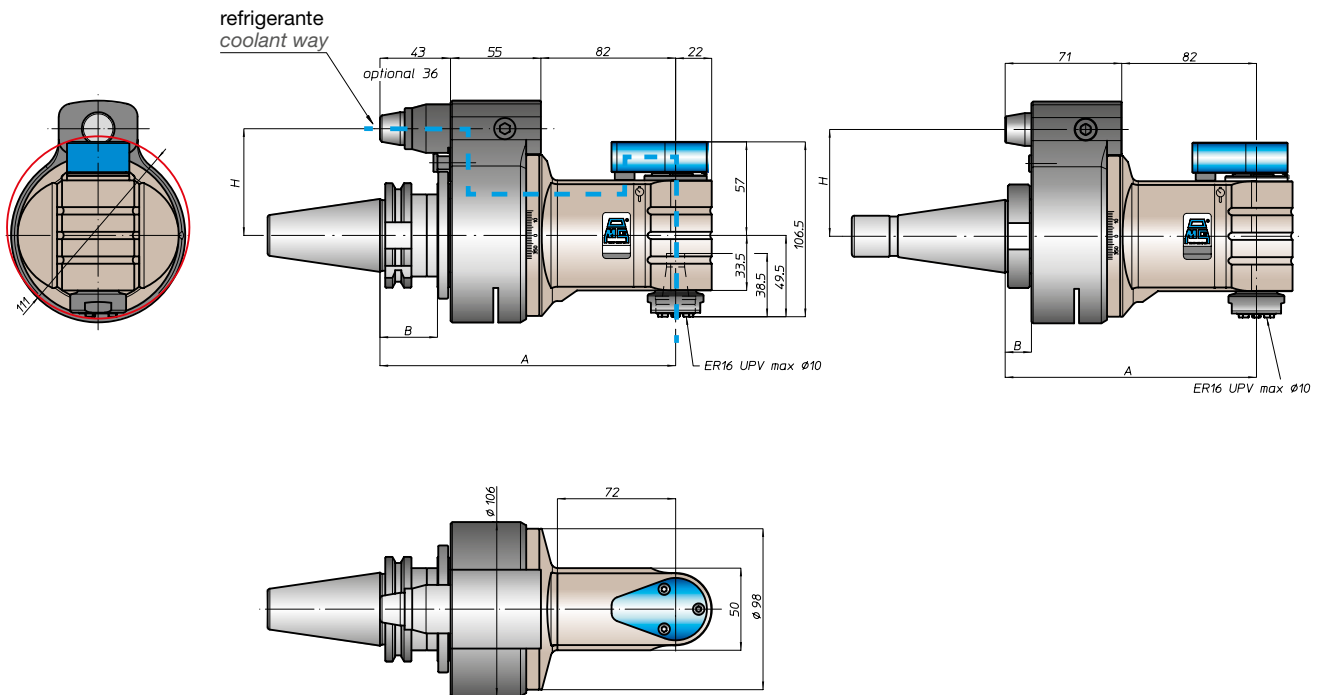
T

MT-TC-TC3



TA10.PD

TESTA AD ANGOLO - ANGLE HEAD

PESO
WEIGHTROTAZIONE
ROTATIONCARATTERISTICHE
FEATURESCONO
SHANK

DIN69871



ANSIB5.50



BT



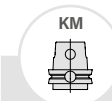
HSK

DIN69893



CAPTO

ISO26623



KM

DIN2080



DIN2080

ANSIB5.18



ANSIB5.18

SIZE

30 40 45 50 40 50 40 50

63 80 100

C5 C6 C8

63 80 100

40 50

40 50

A

180

180

180 188

189

184

180

150 153

150 153

B

35

35

35 45

44 46

39 41

13 16

13 16

H STANDARD

65 80

65 80

65 80

65 80

65 80

65 80

65 80

65 80

H OPTIONAL

110

110

110

110

110

110

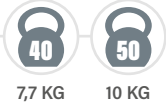
110

110

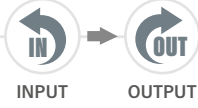
For DIN69871, ANSIB5.50 and BT, dual contact as option



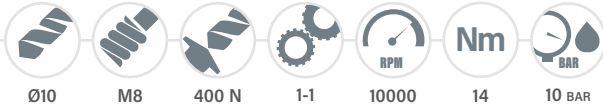
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



TA10.PDL

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

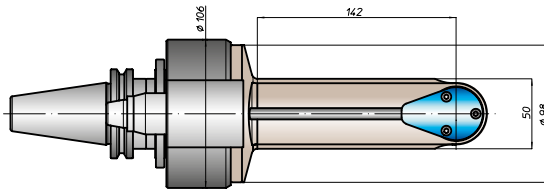
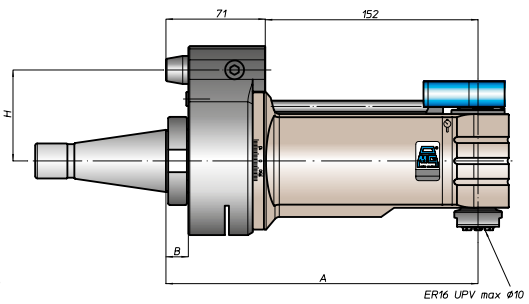
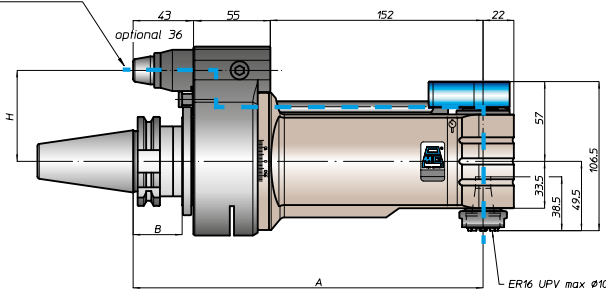
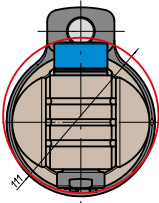
TA.CP

TA

MOX

HT

refrigerante
coolant way



4-58

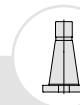
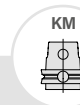
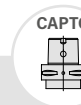
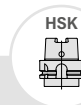
VH

TSI/TSX

T

MT-TC-TC3

CONO
SHANK



SIZE

A

B

H STANDARD

H OPTIONAL

	ANSIB5.50			CAT		BT		HSK			CAPTO			KM		DIN2080		ANSIB5.18							
	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50					
A	250			250		250		258			284			250			220		223		220		223		
B	35			35		35		44		46		39			41		13		16		13		16		
H STANDARD	65	80		65	80	65	80	65	80		65	80	65	80	65	80	65	80	65	80	65	80	65	80	
H OPTIONAL	110			110		110		110			110			110		110		110		110		110		110	

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-59

VH

TSI/TSX

T

MT-TC-TC3



TA13.PD

TESTA AD ANGOLO - ANGLE HEAD



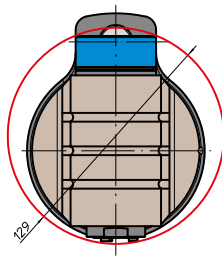
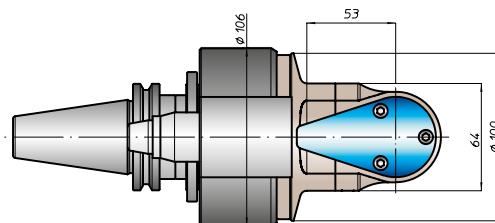
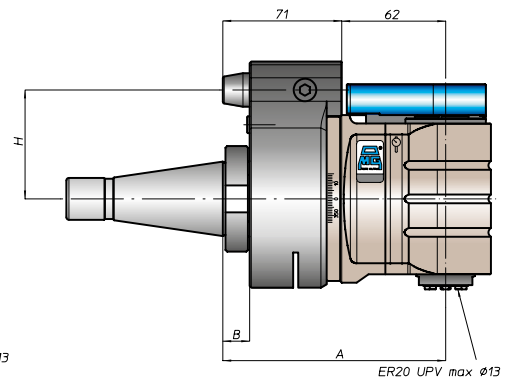
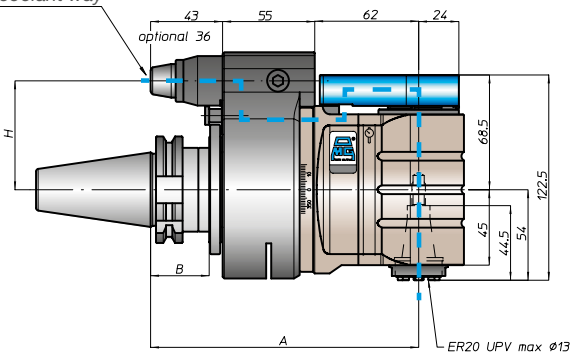
40
6,5 KG

50
9 KG

PESO
WEIGHT

IN
INPUT

OUT
OUTPUT

ROTAZIONE
ROTATIONCARATTERISTICHE
FEATURESrefrigerante
coolant wayCONO
SHANK

DIN69871



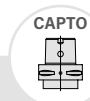
ANSIB5.50



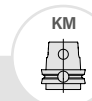
BT



HSK



CAPTO



KM



DIN2080



ANSIB5.18

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

160

160

160

168

169

164

160

130

133

130

133

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

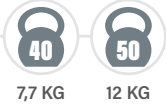
110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option

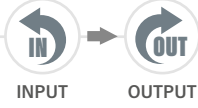


PESO
WEIGHT



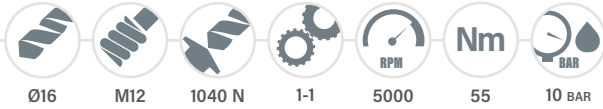
7,7 KG 12 KG

ROTAZIONE
ROTATION



INPUT OUTPUT

CARATTERISTICHE
FEATURES



Ø16 M12 1040 N 1-1 5000 55 10 BAR

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



ER32
DIN6499-ER



TA16.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

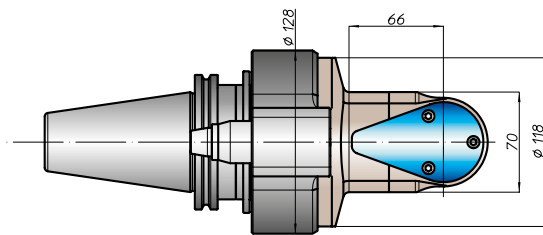
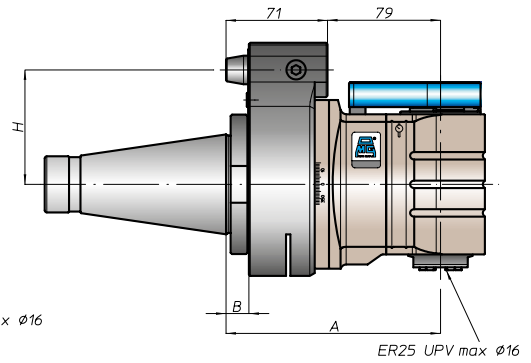
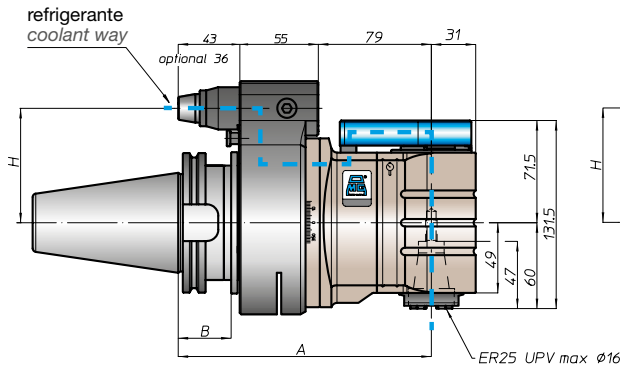
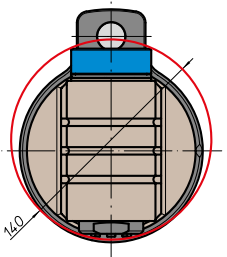
4-60

VH

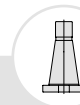
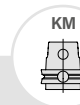
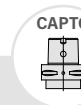
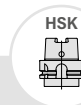
TSI/TSX

T

MT-TC-TC3



CONO
SHANK



ANSIB5.50

DIN69893

ISO26623

DIN2080

ANSIB5.18

SIZE

40 45 50 40 50 40 50 63 80 100 C5 C6 C8 63 80 100 40 50 40 50

A

172 177 172 177 172 185 181 186 176 181 172 177 147 150 142 150

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80 65 80

H OPTIONAL

110 110 110 110 110 110 110 110

For DIN69871, ANSIB5.50 and BT, dual contact as option

TA20.PD

TESTA AD ANGOLO - ANGLE HEAD



14,5 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø20



M14



1460 N



1-1



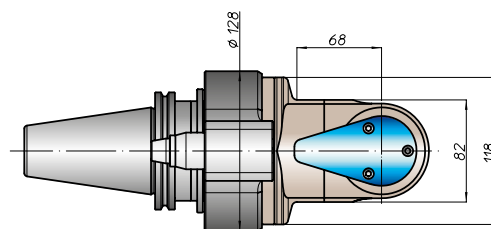
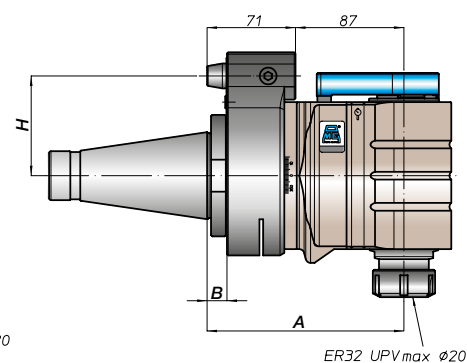
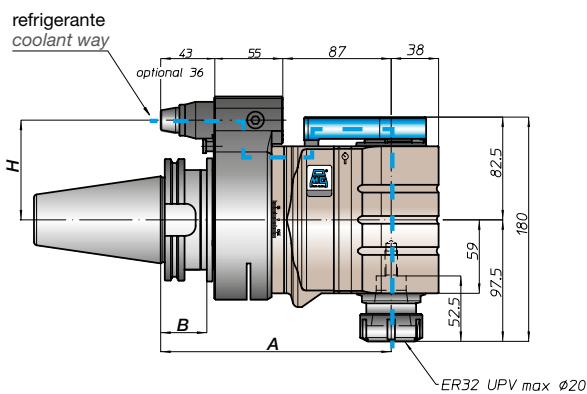
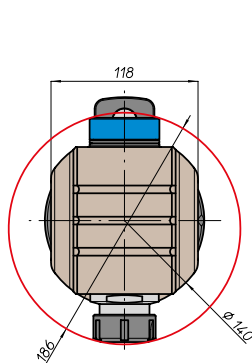
3500



90



10 BAR

CARATTERISTICHE
FEATURESCONO
SHANK

DIN69871



ANSIB5.50

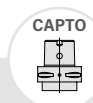


BT



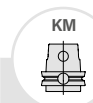
HSK

DIN69893



CAPTO

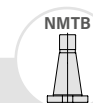
ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

80

100

50

50

A

185

185

193

194

189

185

158

158

B

35

35

45

46

41

185

16

16

H STANDARD

80

80

80

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

110

110

110

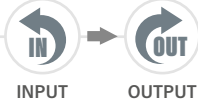
For DIN69871, ANSIB5.50 and BT, dual contact as option

PESO
WEIGHT



22 KG

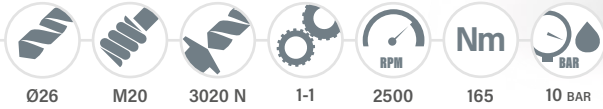
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø26

M20

3020 N

1-1

2500

165

10 BAR



TA26.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

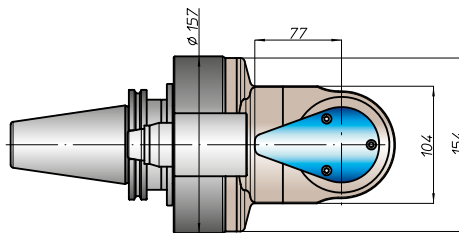
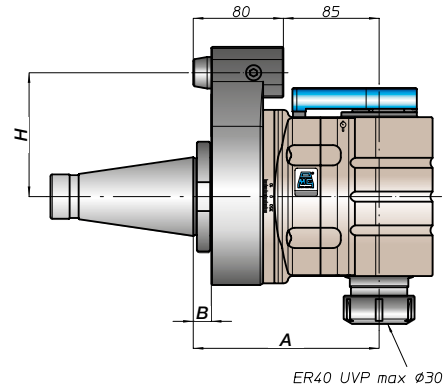
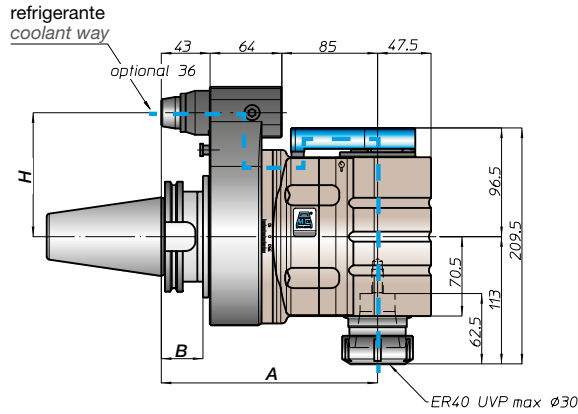
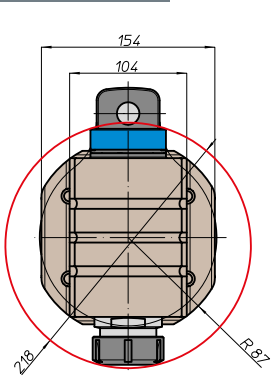
BAH

TA.CP

TA

MOX

HT



4-62

VH

TSI/TSX

T

MT-TC-TC3

CONO
SHANK



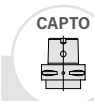
DIN69871



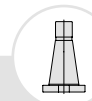
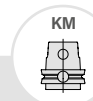
ANSIB5.50



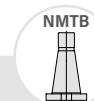
DIN69893



ISO26623



DIN2080



ANSIB5.18

SIZE

45

50

50

50

80

100

C8

100

50

50

A

192

192

200

201

196

192

165

165

B

37

37

45

46

41

16

16

H STANDARD

110

110

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-63

VH

TSI/TSX

T

MT-TC-TC3



TA26.40.D

TESTA AD ANGOLO - ANGLE HEAD



22 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø26



M20



3020 N



1-1



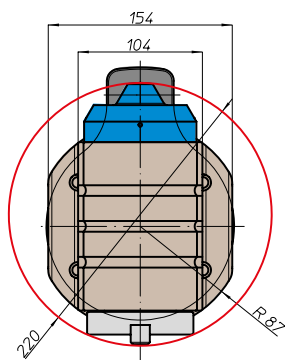
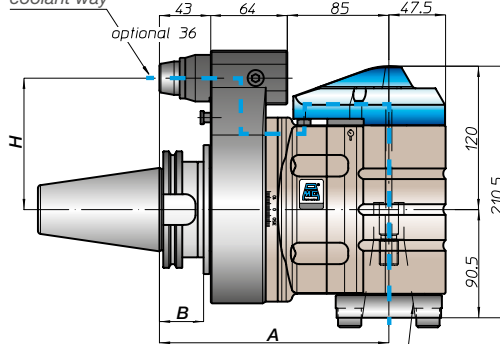
2500



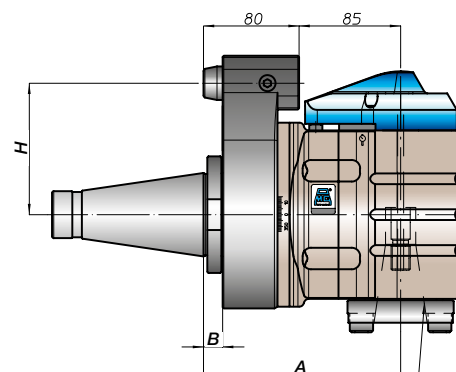
165



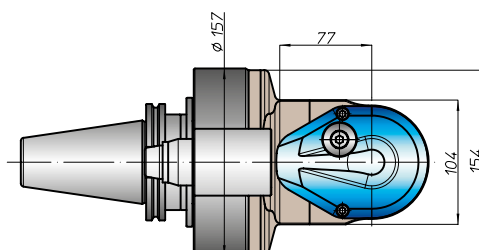
40 BAR

CARATTERISTICHE
FEATURESrefrigerante
coolant way

Cano 40 DIN2079



Cano 40 DIN2079

CONO
SHANK

DIN69871



ANSIB5.50

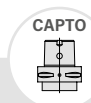


BT



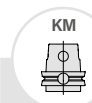
HSK

DIN69893



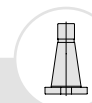
CAPTO

ISO26623



KM

100



DIN2080

50



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

100

50

50

A

192

192

200

201

196

192

165

165

B

37

37

45

46

41

110

16

16

H STANDARD

110

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option





FH

BAH

TA.CP

TA

MOX

HT

4-64

VH

TSI/TSX

T

MT-TC-TC3



FH

BAH

TA.CP

TA

MOX

HT

4-65

VH

TSI/TSX

T

MT-TC-TC3

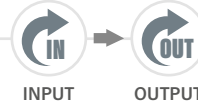


TAO10.P

TESTA AD ANGOLO - ANGLE HEAD



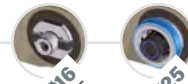
PESO
WEIGHT



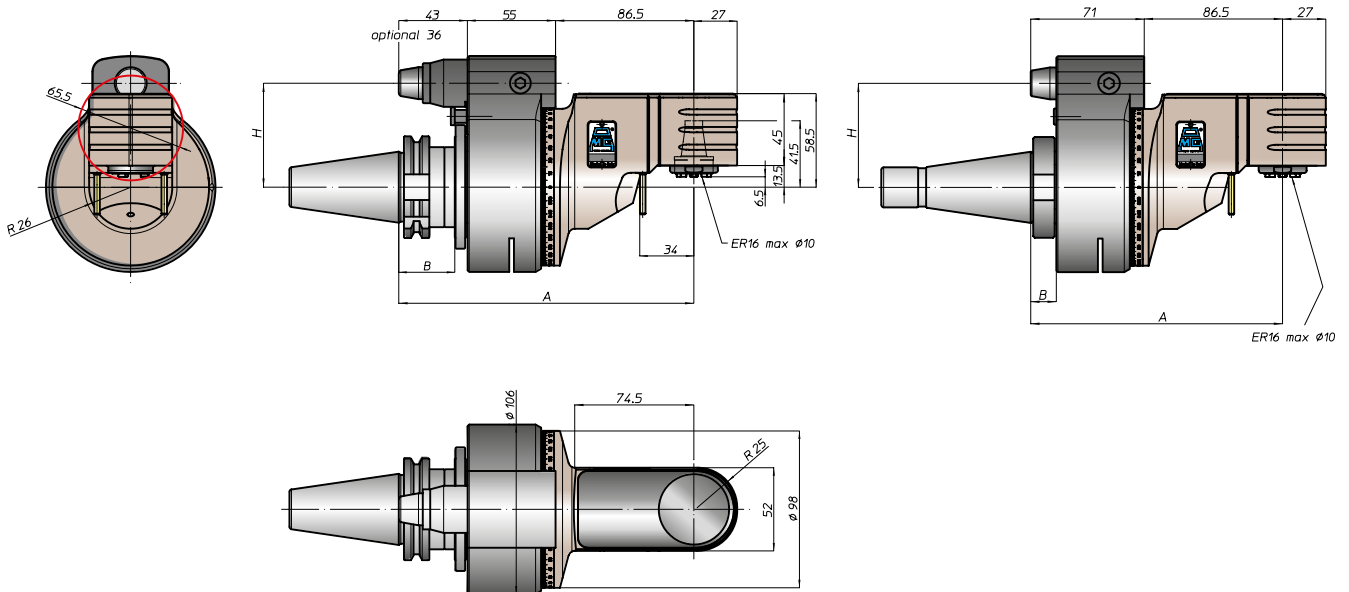
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



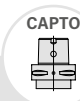
ANSIB5.50



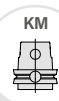
BT



DIN69893



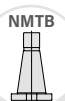
ISO26623



KM



DIN2080



ANSIB5.18

SIZE

40 45 50

40 50

40 50

63 80 100

C5 C6 C8

63 80 100

40 50

40 50

A

184,5

184,5

184,5 192,5

193,5

188,5

184,5

157,5 160,5

157,5 160,5

B

35

35

35 45

44 46

39 41

13 16

13 16

13 16

H STANDARD

65 80

65 80

65 80

65 80

65 80

65 80

65 80

65 80

H OPTIONAL

110

110

110

110

110

110

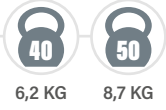
110

110

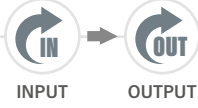
For DIN69871, ANSIB5.50 and BT, dual contact as option



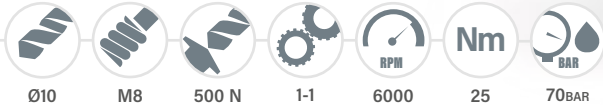
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



TAO10.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

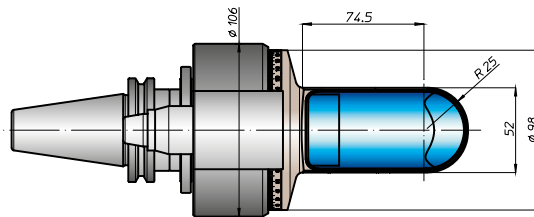
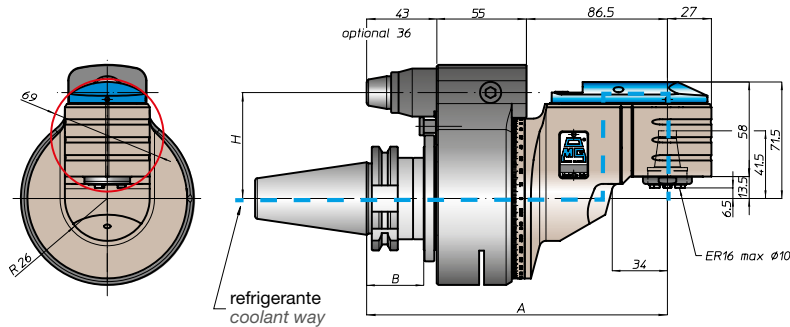
4-66

VH

TSI/TSX

T

MT-TC-TC3



CONO
SHANK



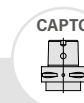
DIN69871



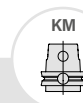
ANSIB5.50



DIN69893



ISO26623



DIN2080



ANSIB5.18

SIZE

	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100		
--	----	----	----	----	----	----	----	----	----	-----	----	----	----	----	----	-----	--	--

A

	184,5			184,5		184,5		192,5		193,5		188,5		184,5			
--	-------	--	--	-------	--	-------	--	-------	--	-------	--	-------	--	-------	--	--	--

B

	35			35		35		45		44		46		39		41	
--	----	--	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--

H STANDARD

	65	80	65	80	65	80	65	80	65	80	65	80	65	80		
--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	--	--

H OPTIONAL

	110			110		110		110		110		110			
--	-----	--	--	-----	--	-----	--	-----	--	-----	--	-----	--	--	--

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-67

VH

TSI/TSX

T

MT-TC-TC3



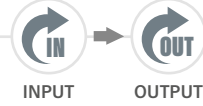
TA013.P

TESTA AD ANGOLO - ANGLE HEAD



7,5 KG

10,5 KG

PESO
WEIGHT

INPUT

OUTPUT

ROTAZIONE
ROTATION

Ø13

M10

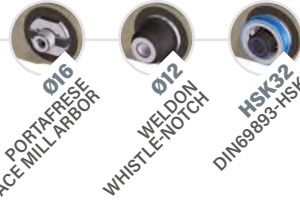
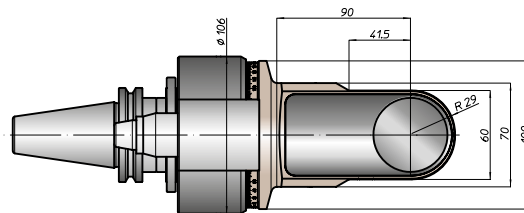
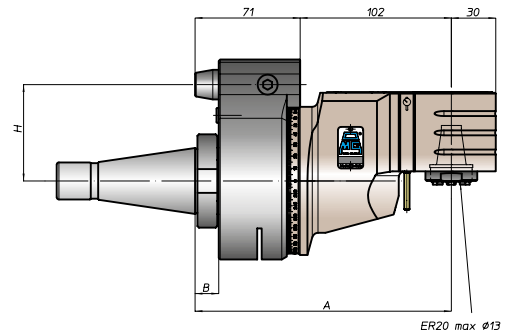
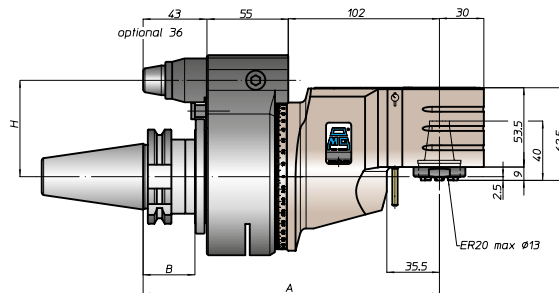
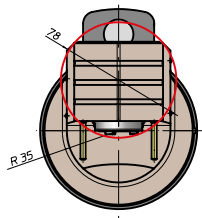
570 N

1-1

4500

Nm

45

CARATTERISTICHE
FEATURESØ16
PORTAFRESE
FACE MILL ARBORØ12
WELDON
WHISTLE-NOTCHHSK32
DIN69893-HSKMANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

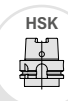
DIN69871



ANSIB5.50



BT



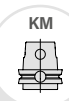
HSK

DIN69893



CAPTO

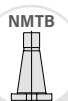
ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

200

200

200

208

209

204

200

170

176

173

176

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TA013.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

4-68

VH

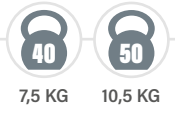
TSI/TSX

T

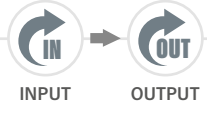
MT-TC-TC3



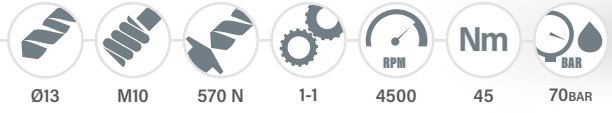
PESO
WEIGHT



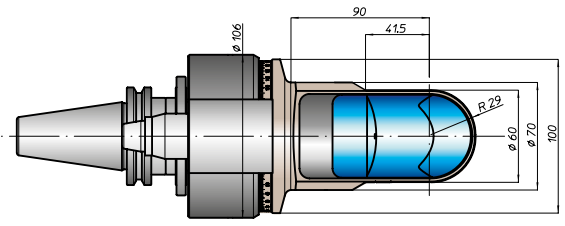
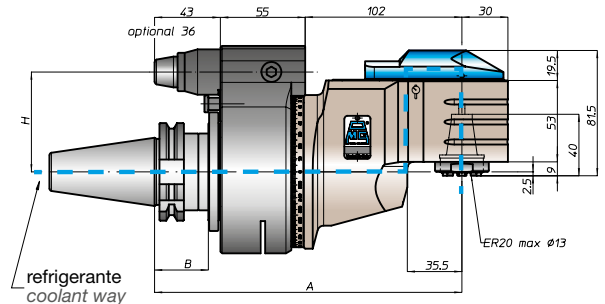
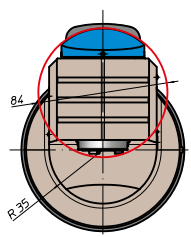
ROTAZIONE
ROTATION



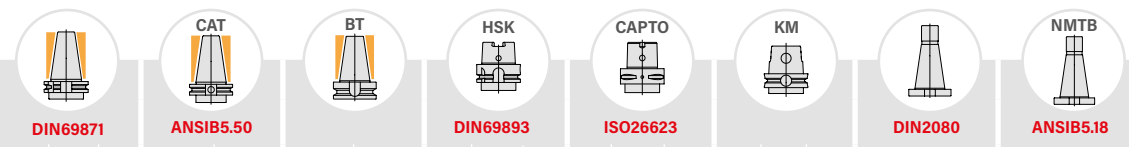
CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



SIZE	DIN69871			ANSIB5.50		BT		HSK			CAPTO			KM		DIN2080		ANSIB5.18	
A	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100			
B		35		35		35	45	44	46			39	41						
H STANDARD	65	80		65	80	65	80	65	80		65	80	65	80					
H OPTIONAL		110		110		110		110				110		110					

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOX

HT

4-69

VH

TSI/TSX

T

MT-TC-TC3



TA016.P

TESTA AD ANGOLO - ANGLE HEAD



14 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø16



M12



810 N



1-1



4000



90

CARATTERISTICHE
FEATURES

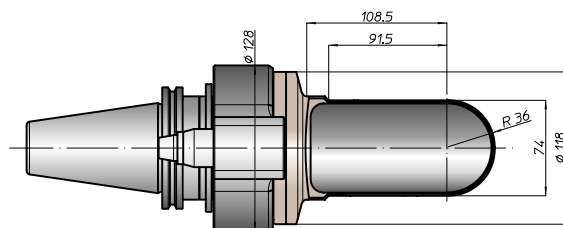
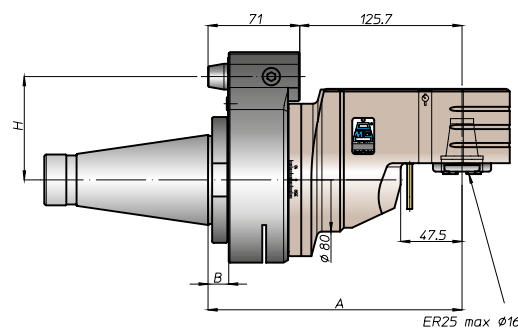
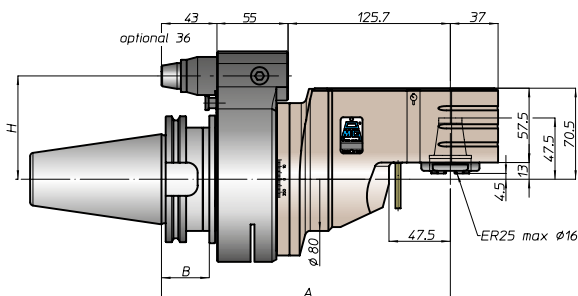
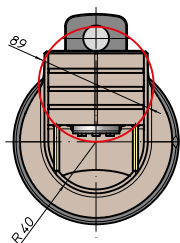
Ø16-Ø22-Ø27
PORTAFRESA
FACE MILL ARBOR



Ø16
WELDON
WHISTLE-NOTCH



HSK40
DIN69893-HSK

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50

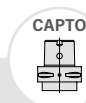


BT



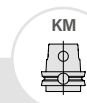
HSK

DIN69893

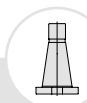


CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

80

100

50

50

A

223,5

223,5

231,5

232,5

227,5

223,5

199,5

199,5

B

35

35

45

46

41

16

16

H STANDARD

80

80

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAO16.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

4-70

VH

TSI/TSX

T

MT-TC-TC3



50
14 KG

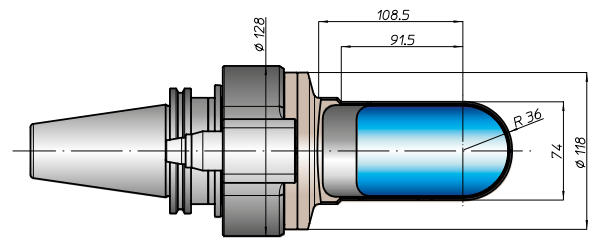
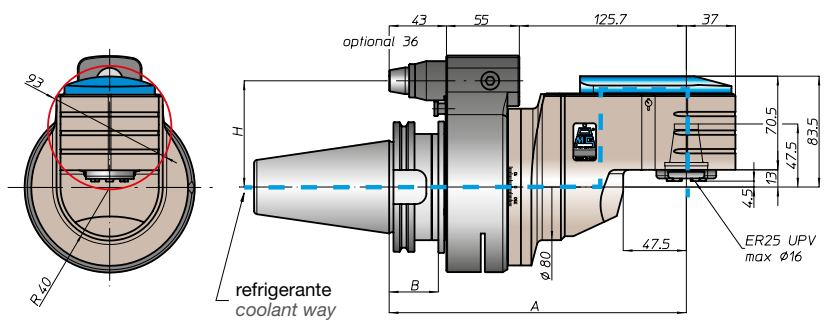
IN → **OUT**
INPUT OUTPUT

Ø16 M12 810 N 1-1 4000 Nm 90 70BAR

Ø16-022-027
PORTAFRESE
FACE-MILL ARBOR

Ø16
WELDON
WHISTLE-NOTCH

HSK40
DIN69893-HSK



CONO SHANK

DIN69871	ANSIB5.50			ISO26623	DIN69893	DIN2080	ANSIB5.18

SIZE	45 50	50	50	80 100	C8	80 100	
A	223,5	223,5	231,5	232,5	227,5	223,5	
B	35	35	45	46	41		
H STANDARD	80	80	80	80	80	80	
H OPTIONAL	110	110	110	110	110	110	

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOX

HT

4-71

VH

TSI/TSX

T

MT-TC-TC3



TAO20.P

TESTA AD ANGOLO - ANGLE HEAD



15 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø20



M14



1150 N



1-1



3500



95

CARATTERISTICHE
FEATURES

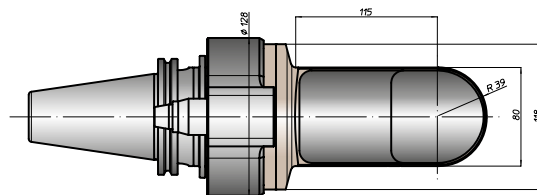
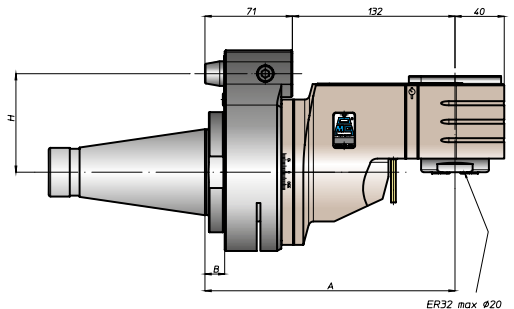
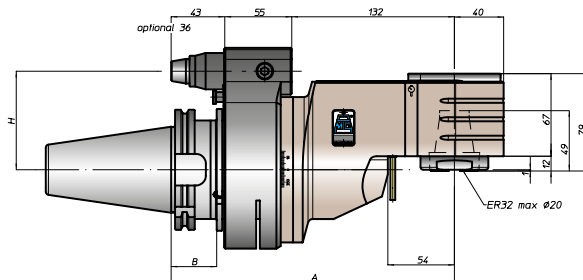
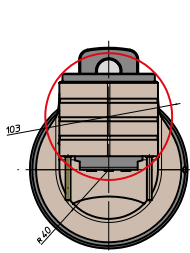
Ø22-Ø27-Ø32
PORTAFRESE
FACE MILL ARBOR



Ø16-Ø20
WELD ON
WHISTLE-NOTCH



HSK50
DIN69893-HSK

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50

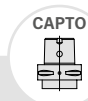


BT



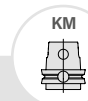
HSK

DIN69893

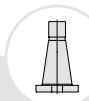


CAPTO

ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C8

80

100

50

50

A

230

230

238

239

234

230

203

203

B

35

35

45

46

41

16

16

H STANDARD

80

80

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAO20.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

4-72

VH

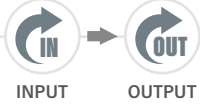
TSI/TSX

T

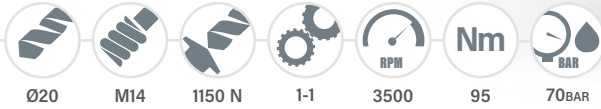
MT-TC-TC3



PESO
WEIGHT



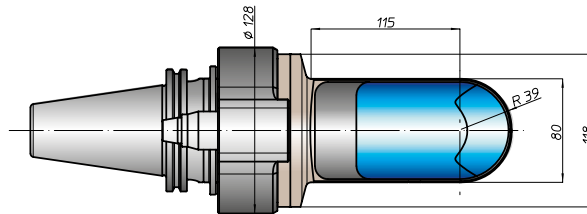
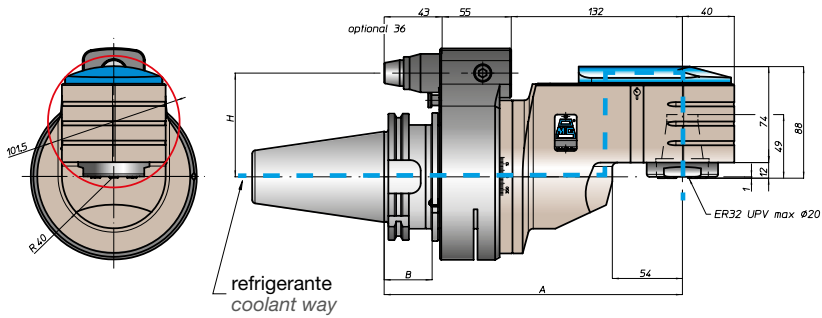
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



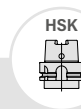
DIN69871



ANSIB5.50

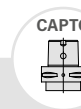


BT



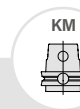
HSK

DIN69893



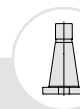
CAPTO

ISO26623



KM

80 | 100



DIN2080

80 | 100



NMTB

ANSIB5.18

SIZE

45 | 50

50

50

80 | 100

C8

80 | 100

A

230

230

238

239

234

230

B

35

35

45

46

41

H STANDARD

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOX

HT

4-73

VH

TSI/TSX

T

MT-TC-TC3



TAO26.P

TESTA AD ANGOLO - ANGLE HEAD



24 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø26



M20



1590 N



1-1



3000



150

CARATTERISTICHE
FEATURES

Ø27-Ø32
PORTA-FRESSE
FACE MILL ARBOR



Ø25-Ø32
WELDON
LE-NOTCH



HSK63
DIN69893-HSK



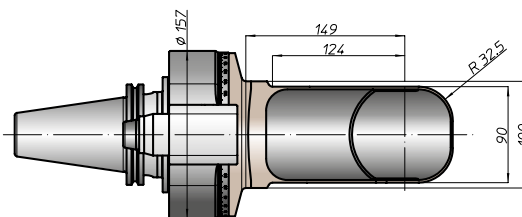
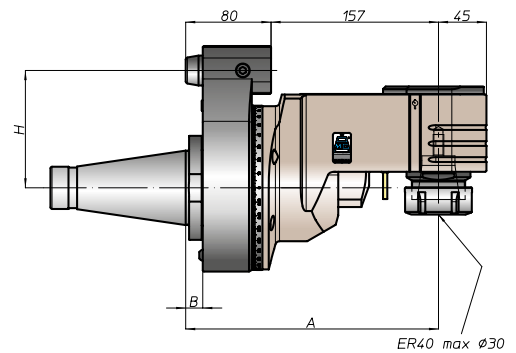
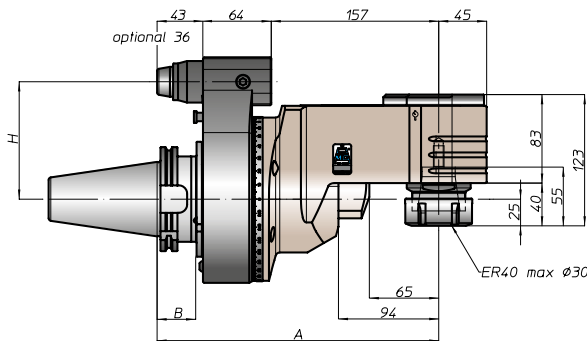
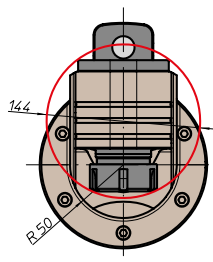
C4
COROMANT CAPTO®



ABS563
LICENZA KOMET®
KOMET LICENCE®



30-40
ISO/DIN2079
NMTB-BT

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50



BT

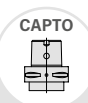
50



HSK

DIN69893

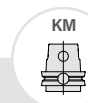
100



CAPTO

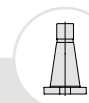
ISO26623

C8



KM

100



DIN2080

DIN2080

50



NMTB

ANSIB5.18

50

SIZE

A

B

H STANDARD

H OPTIONAL

50

50

50

100

C8

100

50

50

264

264

272

273

264

270

243

243

36,5

36,5

44,5

45,5

41

16

16

16

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAO26.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

4-74

VH

TSI/TSX

T

MT-TC-TC3

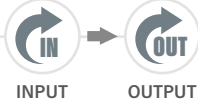


PESO
WEIGHT



24 KG

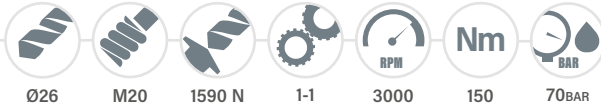
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø26

M20

1590 N

1-1

3000

150

70 BAR

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



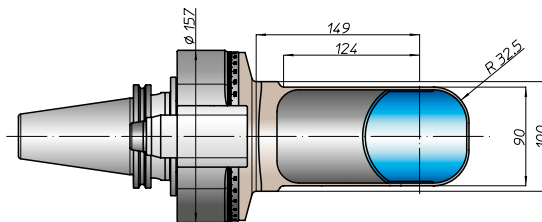
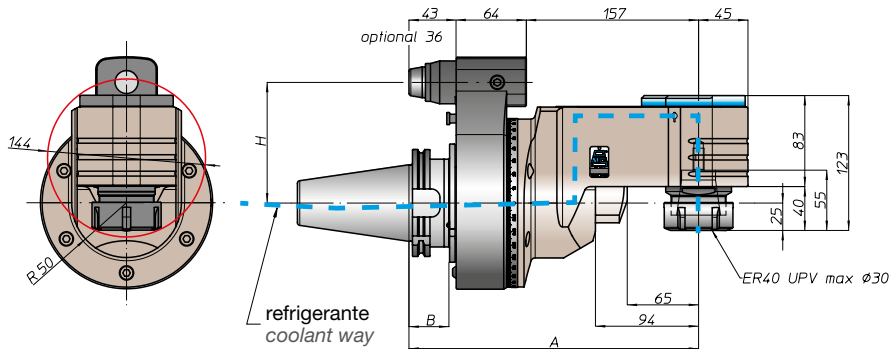
Ø27-Ø32
PORTAFRESE
FACE-MILL ARBOR

Ø25-Ø32
WELD ON
WHISTLE-NOTCH

HSK63
DIN69893-HSK

C4
COROMANT CAPTO®

ABS63
LICENZA KOMET®
KOMET LICENCE®



CONO
SHANK



DIN69871



ANSIB5.50

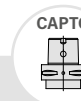


50



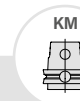
DIN69893

100



ISO26623

C8



100



DIN2080

100



ANSIB5.18

SIZE

50

50

50

100

C8

100

100

A

264

264

272

273

264

270

B

36,5

36,5

44,5

45,5

36,5

H STANDARD

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOX

HT

4-75

VH

TSI/TSX

T

MT-TC-TC3



SERIE

TAV[®]

DIGITAL





Nuovo standard nelle teste ad angolo variabile.

La serie TAV si propone ora con un display per la visualizzazione dell'inclinazione del mandrino. La facilità di utilizzo, la precisione del sistema, l'ingombro estremamente ridotto consentirà agli utenti di registrare direttamente in macchina l'angolo della lavorazione che la Testa ad Angolo Variabile deve eseguire sul pezzo in modo semplice ed efficace.

Oggi sono disponibili i tre principali modelli di Teste ad Angolo Variabile: TAV10, TAV13 e TAV20.

Lo sviluppo di questa soluzione verrà presto trasportata a tutta la famiglia delle Teste ad Angolo della serie TAV.

New standard system on TAV adjustable angle heads.

The TAV series is now being enhanced with a display to check the spindle angle inclination. Both the user-friendliness and the precision, as well as the extremely reduced footprint of this new system, will allow the users to easily and effectively set the adjustable angle head directly on the machine prepared to machine pieces.

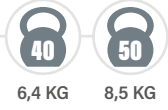
Nowadays the three major adjustable angle head models are available:

TAV10, TA13 and TAV20.

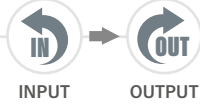
And this new solution will be soon available on the whole range of TAV angle heads.



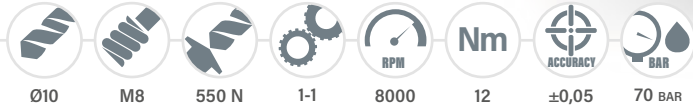
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



TAV10.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

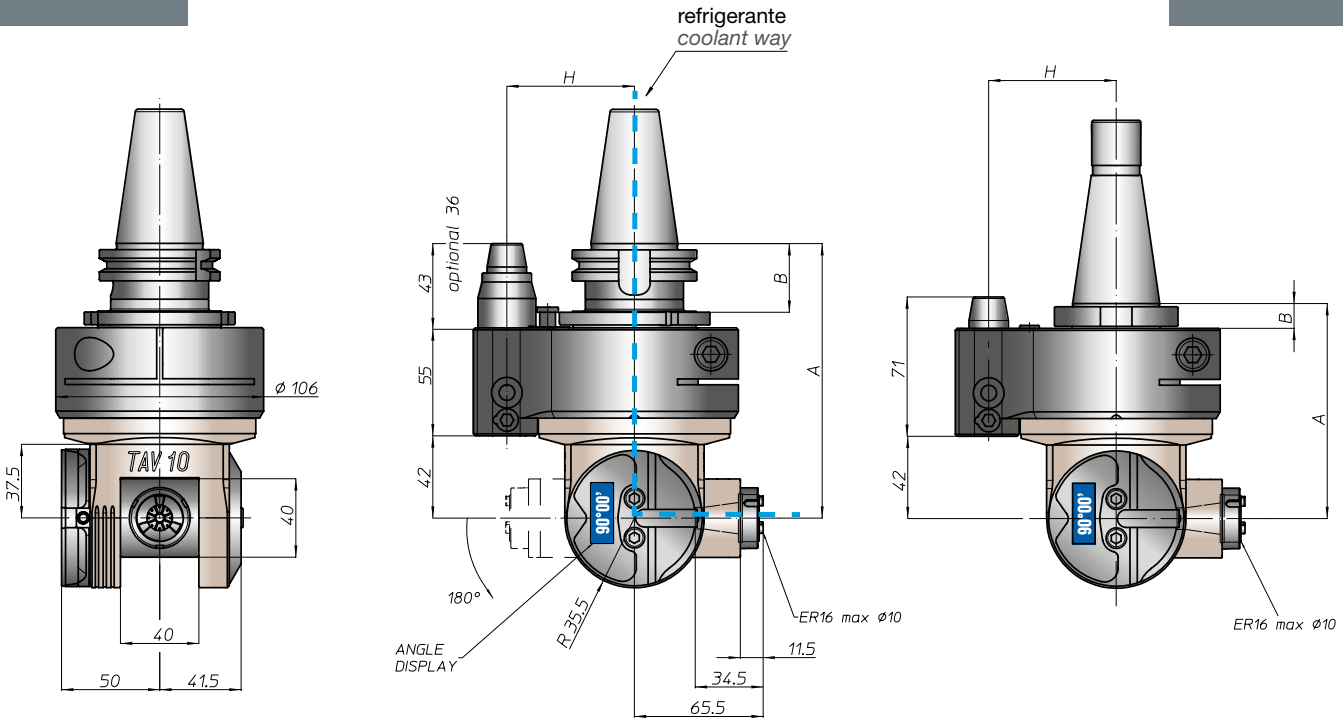
4-78

VH

TSI/TSX

T

MT-TC-TC3



CONO
SHANK



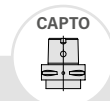
DIN69871



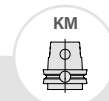
ANSIB5.50



DIN69893



ISO26623



DIN2080



ANSTB.18

SIZE

40 45 50 40 50 40 50 63 80 100 C5 C6 C8 63 80 100 40 50 40 50

A

140 140 140 148 149 144 140 113 116 113 116

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80 65 80

H OPTIONAL

110 110 110 110 110 110 110 110

For DIN69871, ANSIB5.50 and BT, dual contact as option

FH

BAH

TA.CP

TA

MOx

HT

4-79

VH

TSI/TSX

T

MT-TC-TC3



TAV13.P

TESTA AD ANGOLO - ANGLE HEAD



TAV
DIGITAL



7,8 KG



10,5 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø13



M10



630 N



1-1



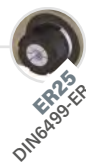
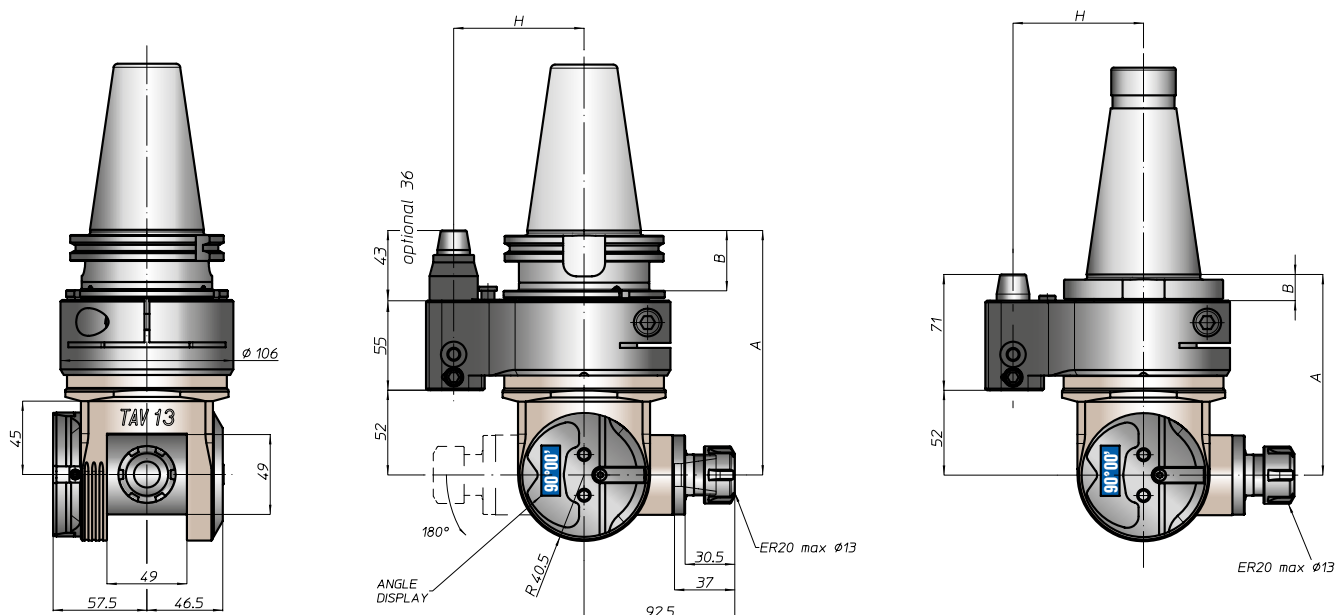
6000



18



±0,05

CARATTERISTICHE
FEATURESER25
DIN6499-ERØ16
WELDON
WHISTLE-NOTCHMANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50



BT



DIN69893



ISO26623



KM



DIN2080



ANSIB5.18

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

150

150

150

158

159

154

150

120

123

120

123

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



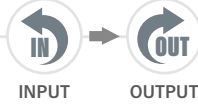
TAV13.PD

TESTA AD ANGOLO - ANGLE HEAD

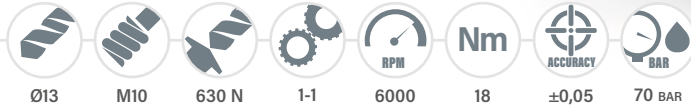
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



FH

BAH

TA.CP

TA

MOX

HT

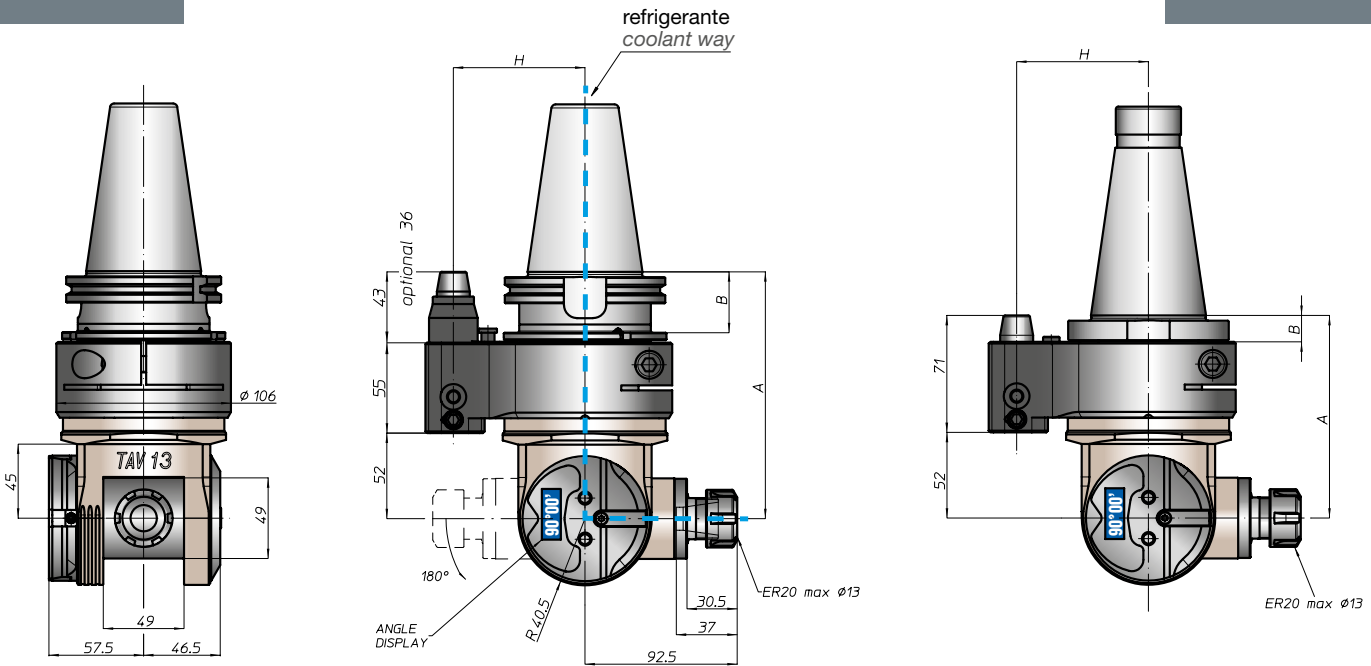
4-80

VH

TSI/TSX

T

MT-TC-TC3



CONO
SHANK



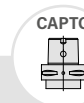
DIN69871



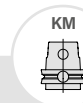
ANSIB5.50



DIN69893



ISO26623



DIN2080



ANSIB5.18

SIZE

40 45 50 40 50 40 50 63 80 100 C5 C6 C8 63 80 100 40 50 40 50

A

150 150 150 158 159 154 150 120 123 120 123

B

35 35 35 45 44 46 39 41 13 16 13 16

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80 65 80 65 80

H OPTIONAL

110 110 110 110 110 110 110 110

For DIN69871, ANSIB5.50 and BT, dual contact as option



FH

BAH

TA.CP

TA

MOX

HT

4-81

VH

TSI/TSX

T

MT-TC-TC3



TAV20.P

TESTA AD ANGOLO - ANGLE HEAD



TAV
DIGITAL



50
22 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø20



M16



1740 N



1-1



4000



60



±0,05

CARATTERISTICHE
FEATURES



ER40
DIN6499-ER



Ø32
PORTAFRESSE
FACE MILL ARBOR



Ø20-Ø25
WEDDON
WHISTLE-NOTCH

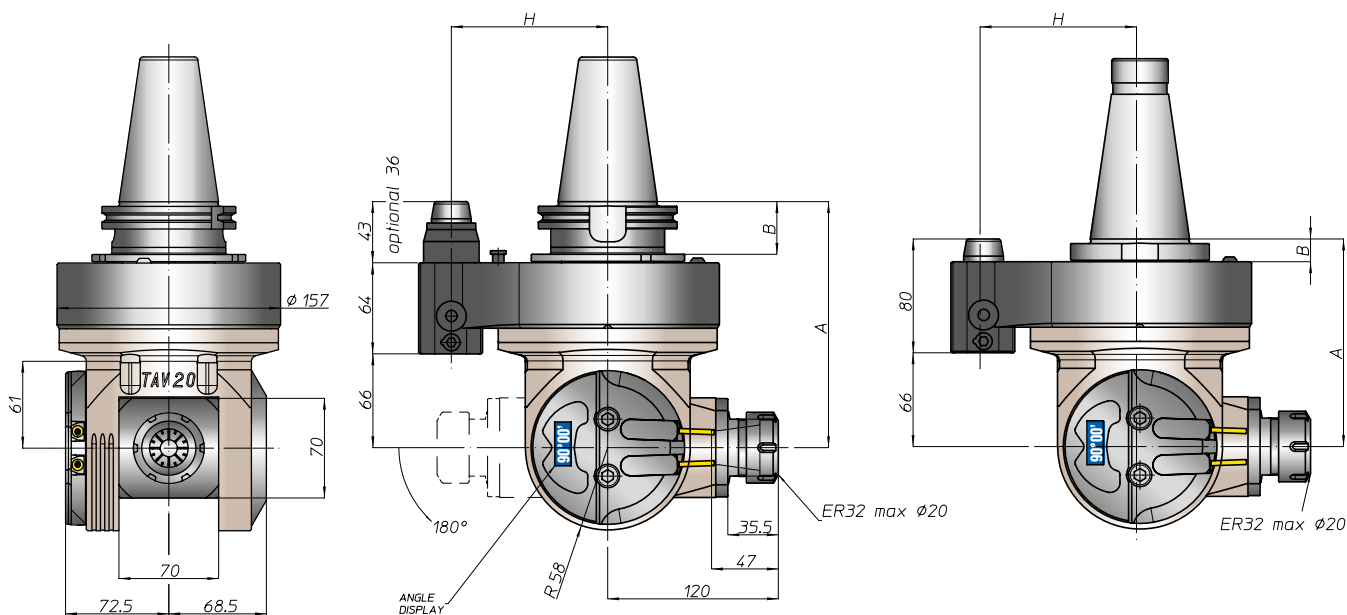


HSK50
DIN69893-HSK



ABS50
LICENZA KOMET®
KOMET LICENCE®

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



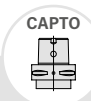
ANSIB5.50



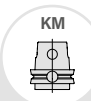
BT



HSK



ISO26623



KM



DIN2080



ANSIB5.18

SIZE

50

50

50

80

100

C8

100

50

50

A

173

173

181

182

177

173

149

149

B

35

35

45

46

41

16

16

16

H STANDARD

110

110

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option





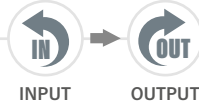
TAV20.PD

TESTA AD ANGOLO - ANGLE HEAD

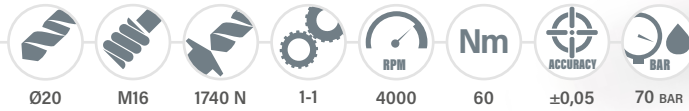
PESO
WEIGHT



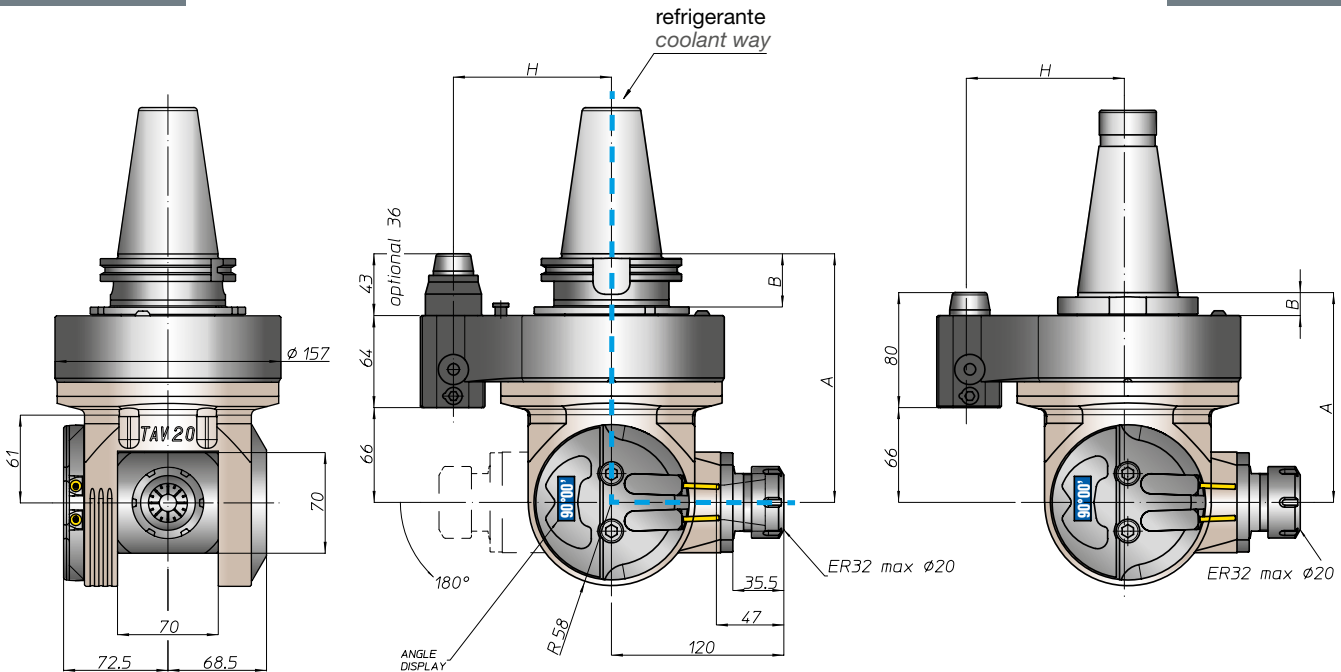
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



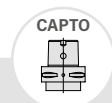
ANSIB5.50



BT

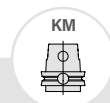


HSK



CAPTO

ISO26623



KM

100



DIN2080



NMTB

ANSIB5.18

SIZE

50

50

50

80

100

C8

100

50

50

A

173

173

181

182

177

173

149

149

B

35

35

45

46

41

16

16

16

H STANDARD

110

110

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAV40.T

TESTA AD ANGOLO - ANGLE HEAD



TAV
DIGITAL



70 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø32



M26



2610 N



1-2



5000



230



±0,014

CARATTERISTICHE
FEATURES

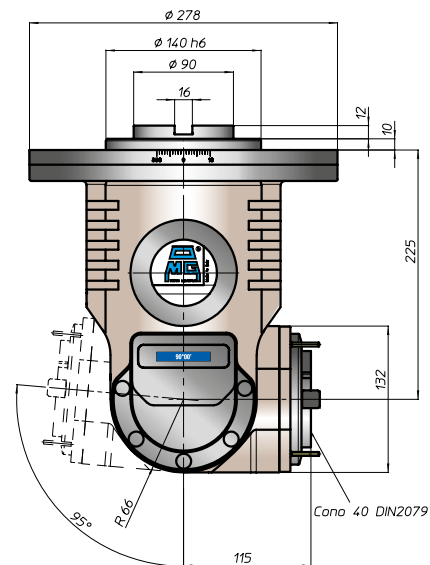
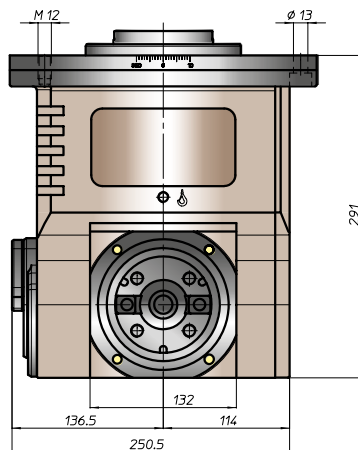
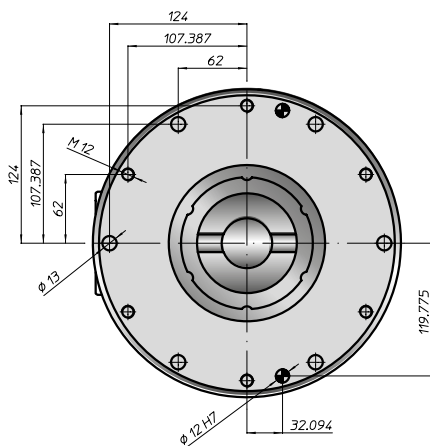


HSK63
DIN69893-HSK

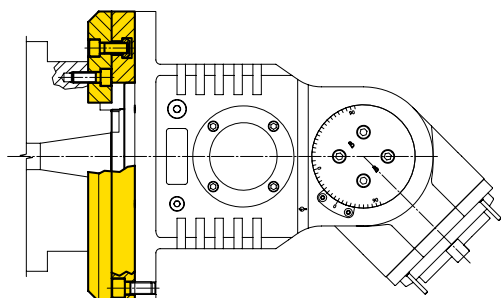


C5
COROMANT CAPTO®

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



Esempio di collegamento / Connection example



Equipaggiamento standard:

- pressurizzazione mandrino
- n. 4 ugelli orientabili vicino al mandrino
- regolazione angolare mandrino libera
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Standard equipment:

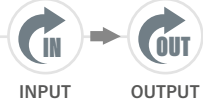
- spindle front pressurization
- nr. 4 adjustable nozzle near the spindle
- free angle spindle adjustment
- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

PESO
WEIGHT



145 KG

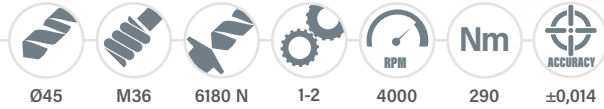
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø45

M36

6180 N

1-2

4000

290

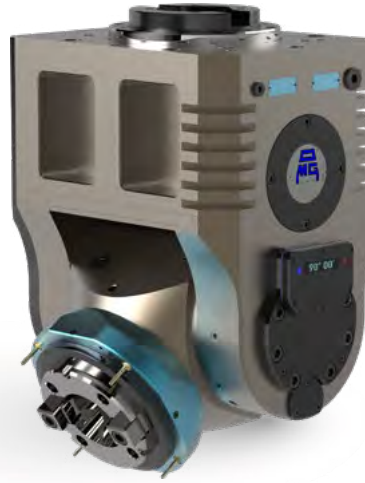
±0,014

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



HSKA100
DIN69893-HSK

C8
COROMANT CAPTO®



TAV50.T

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

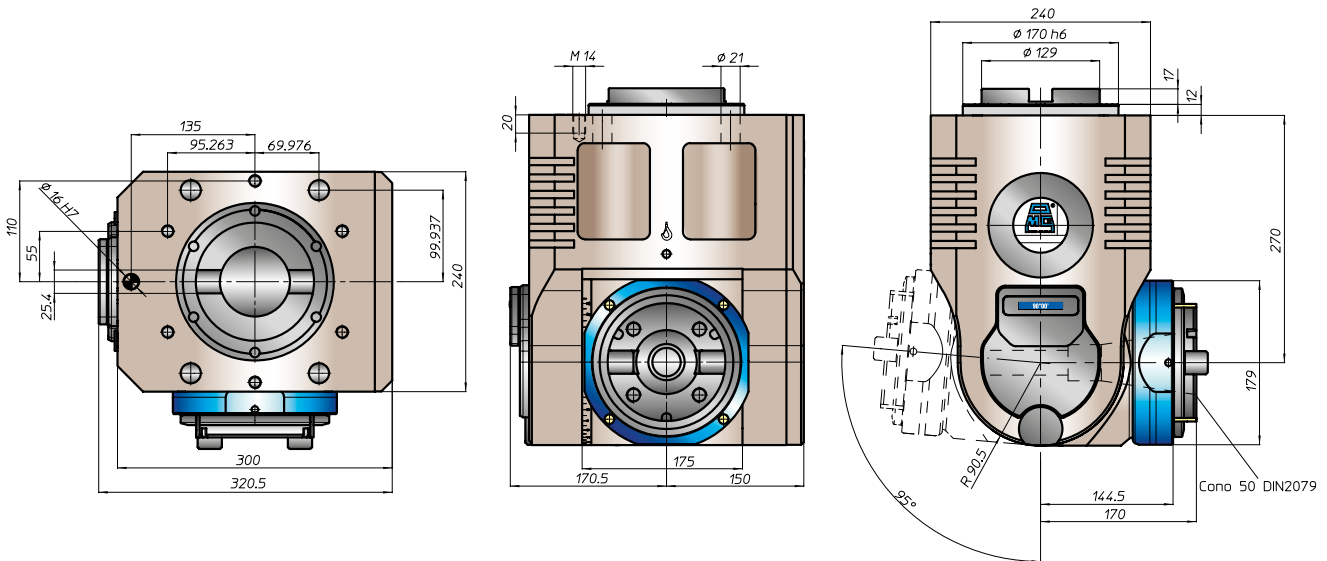
4-84

VH

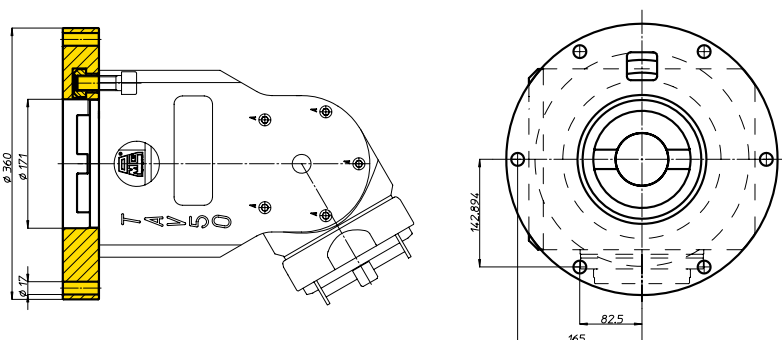
TSI/TSX

T

MT-TC-TC3



Esempio di collegamento / Connection example



Equipaggiamento standard:

- pressurizzazione mandrino
- n. 4 ugelli orientabili vicino al mandrino
- regolazione angolare mandrino libera o posizionabile ogni 15°
- nel mandrino DIN2079 si possono utilizzare coni DIN69871-A50, MAS403-BT50

Standard equipment:

- spindle front pressurization
- nr. 4 adjustable nozzle near the spindle
- free angle spindle adjustment or by pin each 15°
- on the spindle DIN2079 you can use shank DIN69871-A50, MAS403-BT50

FH

BAH

TA.CP

TA

MOX

HT

4-85

VH

TSI/TSX

T

MT-TC-TC3



TAV10.P

TESTA AD ANGOLO - ANGLE HEAD



40
6,4 KG

50
8,5 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø10



M8



550 N



1-1

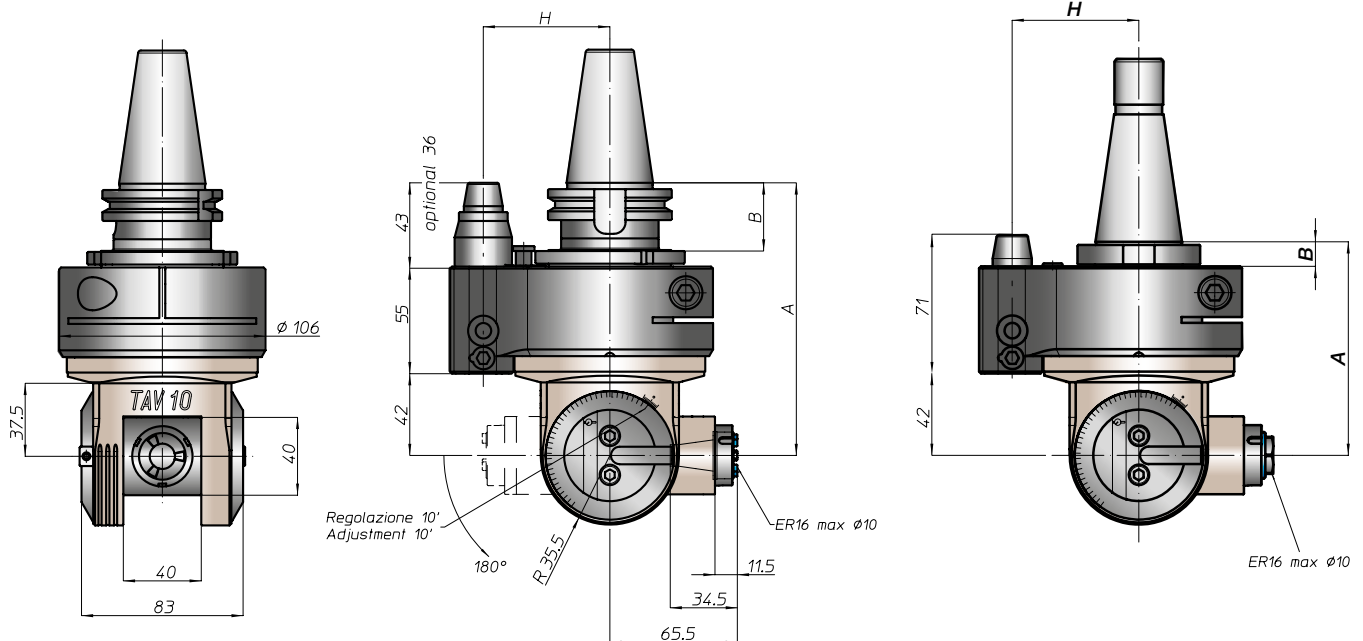


8000



12

CARATTERISTICHE
FEATURES



CONO
SHANK



DIN69871



ANSIB5.50

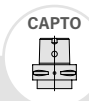


BT



HSK

DIN69893

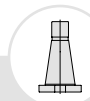


CAPTO

ISO26623



KM



NMTB

DIN2080



NMTB

ANSIB5.18

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

140

140

140

148

149

144

140

113

116

113

116

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

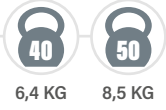
110

110

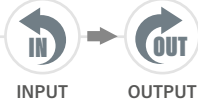
For DIN69871, ANSIB5.50 and BT, dual contact as option



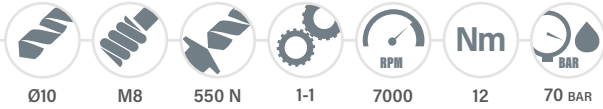
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



TAV10.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

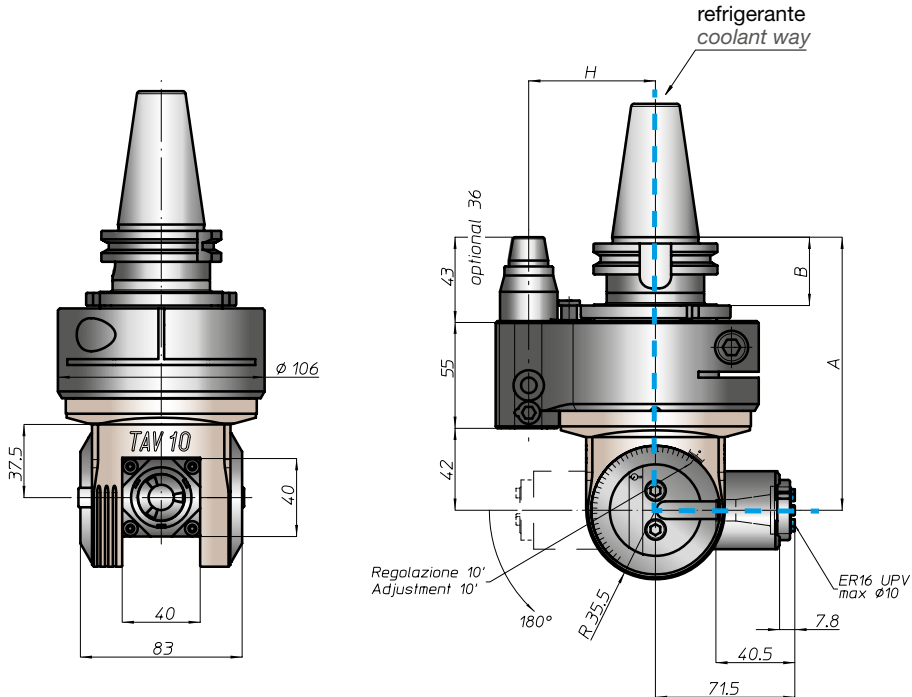
4-86

VH

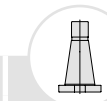
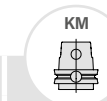
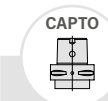
TSI/TSX

T

MT-TC-TC3



CONO
SHANK



SIZE

40 45 50 40 50 40 50 63 80 100 C5 C6 C8 63 80 100

A

140 140 140 148 149 144 140

B

35 35 35 45 44 46 39 41

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80

H OPTIONAL

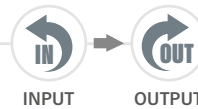
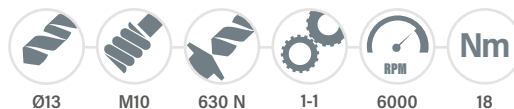
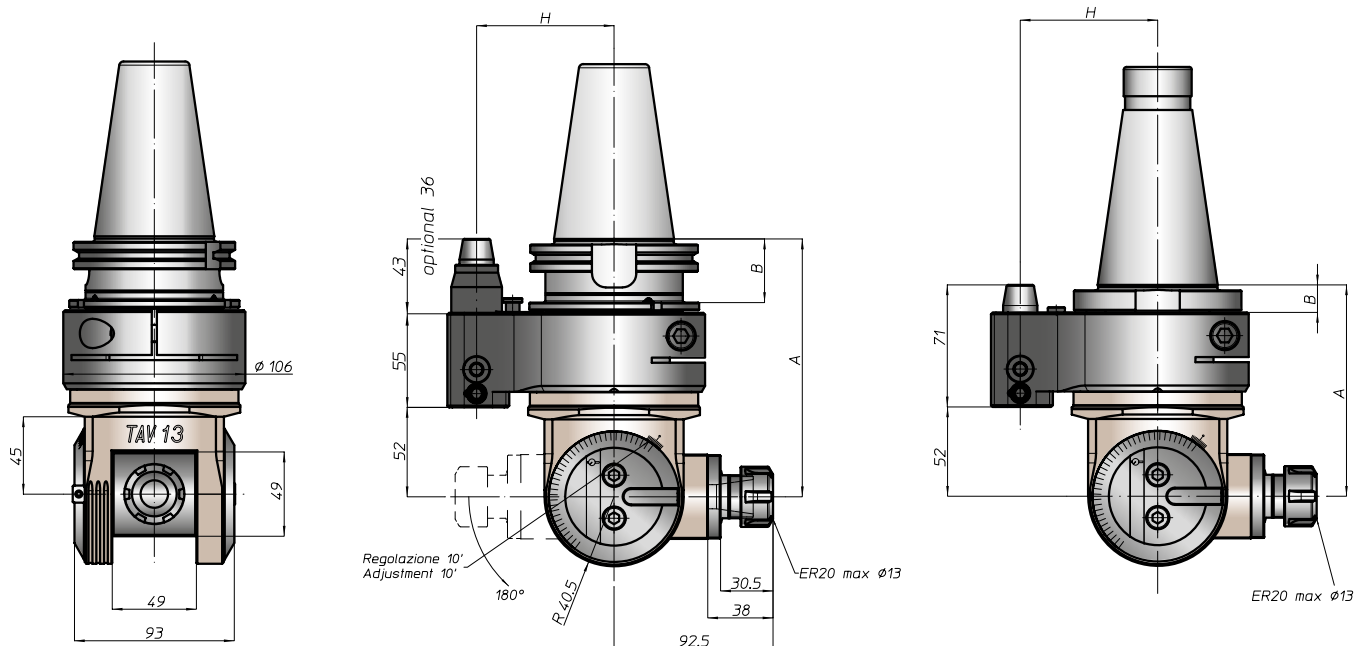
110 110 110 110 110 110 110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAV13.P

TESTA AD ANGOLO - ANGLE HEAD

PESO
WEIGHTROTAZIONE
ROTATIONCARATTERISTICHE
FEATURESMANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



ANSIB5.50

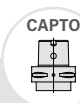


BT



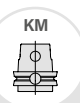
HSK

DIN69893



CAPTO

ISO26623

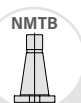


KM



DIN2080

DIN2080



NMTB

ANSIB5.18

SIZE

40

45

50

40

50

40

50

63

80

100

C5

C6

C8

63

80

100

40

50

40

50

A

150

150

150

158

159

154

150

120

123

120

123

B

35

35

35

45

44

46

39

41

13

16

13

16

H STANDARD

65

80

65

80

65

80

65

80

65

80

65

80

65

80

65

80

H OPTIONAL

110

110

110

110

110

110

110

110

For DIN69871, ANSIB5.50 and BT, dual contact as option



TAV13.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

4-88

VH

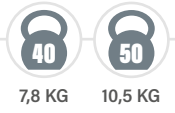
TSI/TSX

T

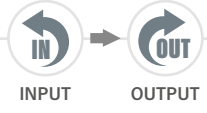
MT-TC-TC3



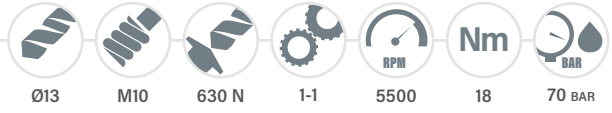
PESO
WEIGHT



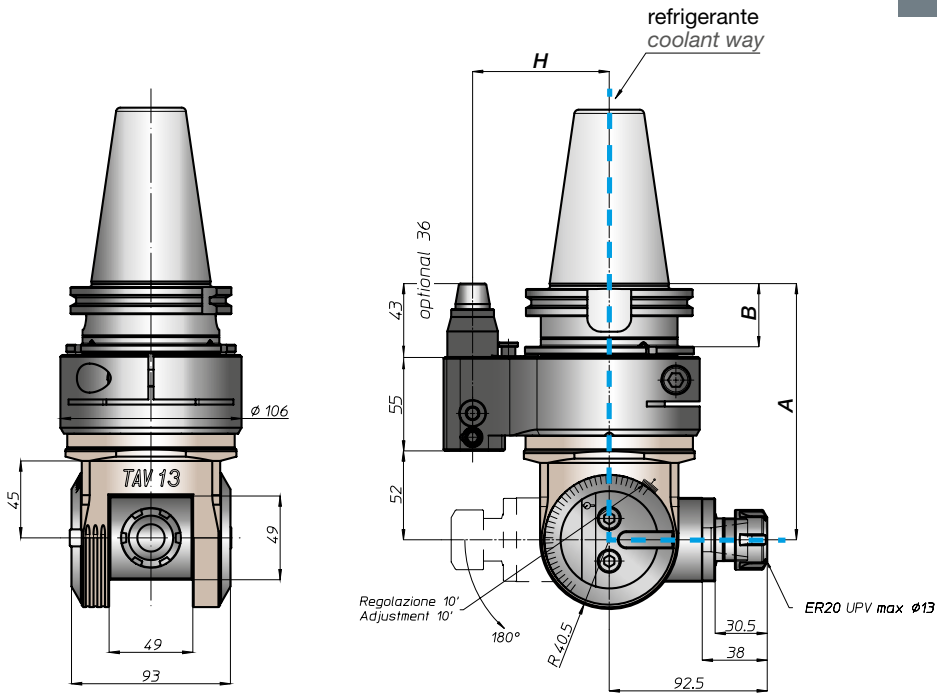
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK

	DIN69871				ANSIB5.50			BT			DIN69893				ISO26623				KM				DIN2080			ANSIB5.18	
--	-----------------	--	--	--	------------------	--	--	----	--	--	-----------------	--	--	--	-----------------	--	--	--	----	--	--	--	----------------	--	--	------------------	--

SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40		
A	150			150		150	158	159		154			150			120			
B	35			35		35	45	44	46		39	41				13			
H STANDARD	65	80		65	80	65	80	65	80		65	80	65	80	65	80			
H OPTIONAL	110			110		110		110			110			110					

For DIN69871, ANSIB5.50 and BT, dual contact as option

TAV20.P

TESTA AD ANGOLO - ANGLE HEAD



50
22 KG

PESO
WEIGHT

IN → **OUT**
INPUT OUTPUT

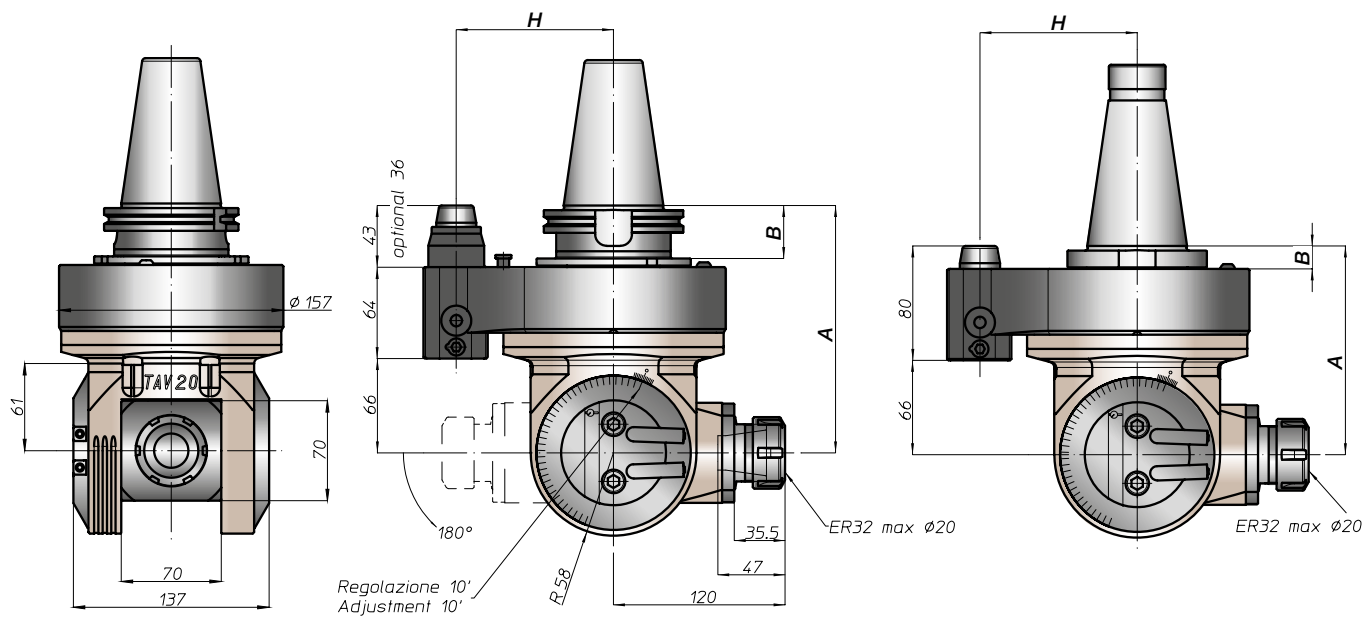
ROTAZIONE
ROTATION

Ø20 **M16** **1740 N** **1-1** **4000** **Nm**
RPM 60

CARATTERISTICHE
FEATURES

ER40
DIN6499-ER
Ø32
PORTAFRESE
FACE MILL ARBOR
Ø20-Ø25
WELD ON
WHISTLE-NOTCH
HSK50
DIN69893-HSK
ABS50
LICENZA KOMET®
KOMET LICENCE®

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



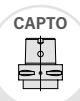
ANSIB5.50



BT



HSK



CAPTO

ISO26623



KM

100



DIN2080

50



ANSIB5.18

50

SIZE

50

50

50

80

100

C8

100

50

50

A

173

173

181

182

177

173

149

149

B

35

35

45

46

41

16

16

16

H STANDARD

110

110

110

110

110

110

110

110

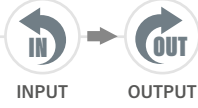
H OPTIONAL

PESO
WEIGHT



22 KG

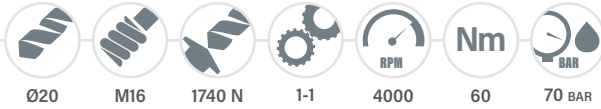
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø20

M16

1740 N

1-1

4000

Nm

60

BAR

70 BAR

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



ER40
DIN6499-ER

Ø20-Ø25
WELDON
WHISTLE-NOTCH

HSK50
DIN69893-HSK

ABS50
LICENZA KOMET®
KOMET LICENCE®



TAV 20.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

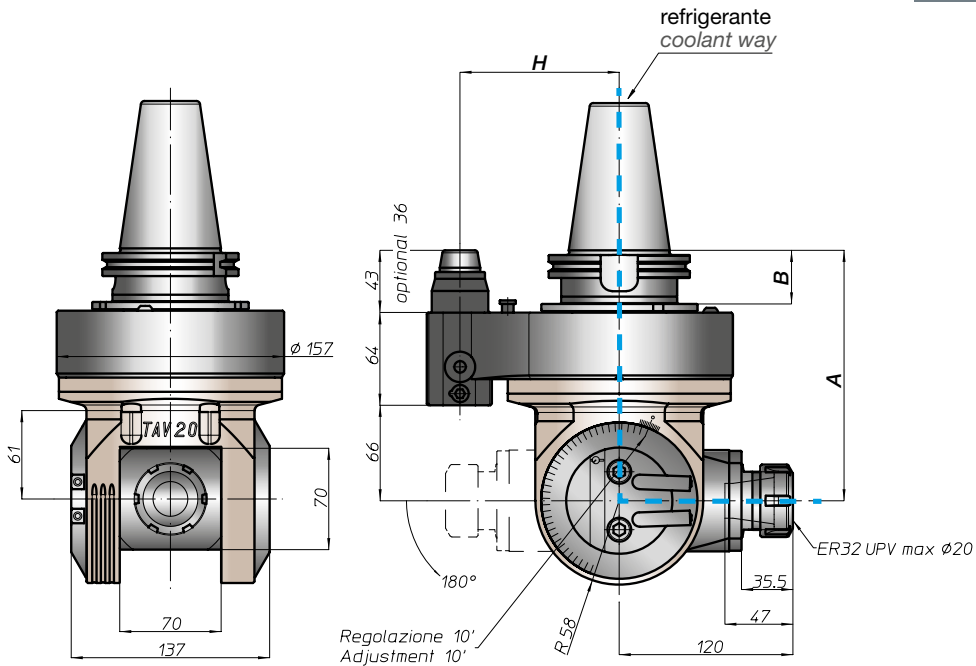
4-90

VH

TSI/TSX

T

MT-TC-TC3



CONO
SHANK



DIN69871



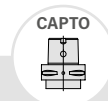
ANSIB5.50



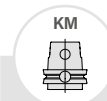
BT



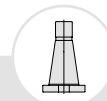
HSK



ISO26623



KM



DIN2080



ANSIB5.18

SIZE

50

50

50

80

100

C8

100

A

173

173

181

182

177

173

B

35

35

45

46

41

H STANDARD

110

110

110

110

110

110

H OPTIONAL

For DIN69871, ANSIB5.50 and BT, dual contact as option

TAV30.P

TESTA AD ANGOLO - ANGLE HEAD



50
42 KG

PESO
WEIGHT

IN → **OUT**
INPUT → OUTPUT

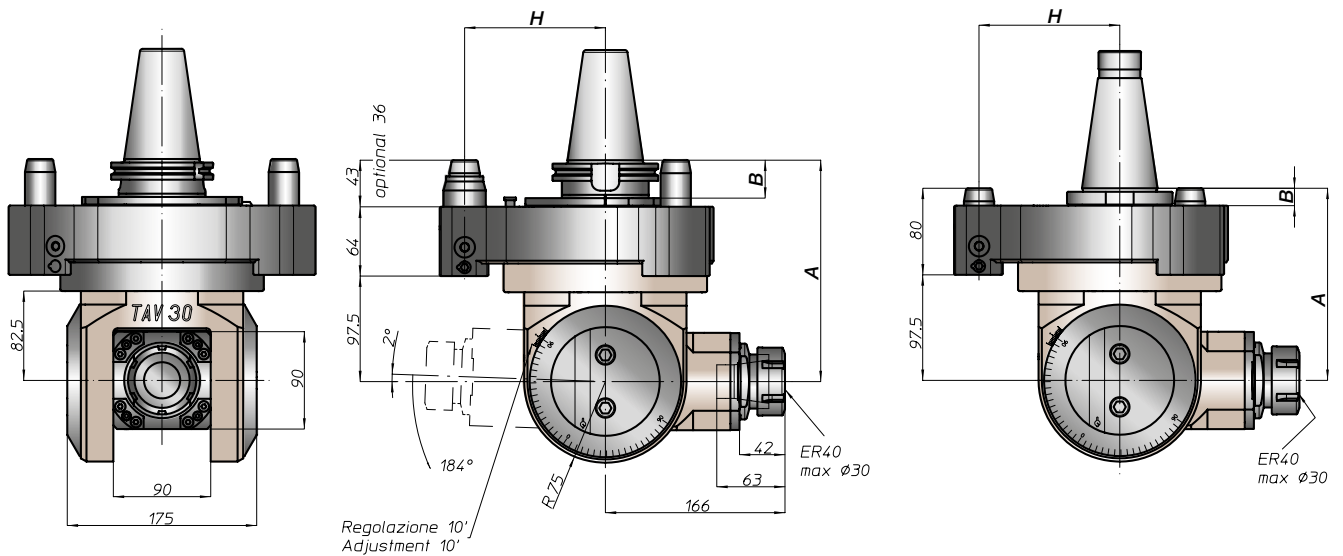
ROTAZIONE
ROTATION

Ø30 **M24** **2740 N** **1-1** **2500** **Nm**
130

CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



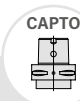
ANSIB5.50



BT



HSK



CAPTO

ISO26623



KM



DIN2080

DIN2080



ANSIB5.18

ANSIB5.18

SIZE

50

50

50

100

C8

100

50

50

A

204,5

204,5

212,5

213,5

208,5

204,5

177,5

177,5

B

35

35

45

46

41

16

16

16

H STANDARD

130

130

130

130

130

130

130

130

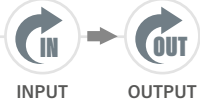
H OPTIONAL

PESO
WEIGHT



70 KG

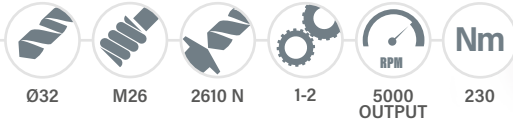
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø32

M26

2610 N

1-2

5000

OUTPUT

Nm

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



HSK63
DIN69893-HSK

C5
COROMANT CAPTO®



TAV40.T

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

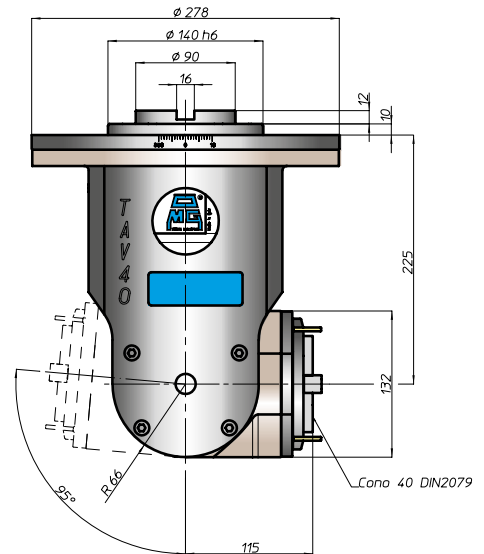
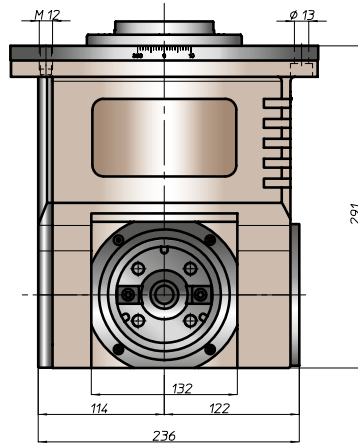
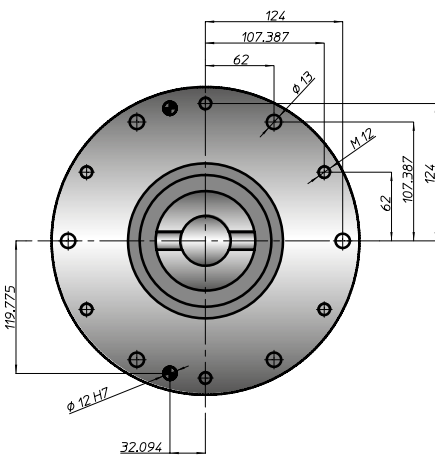
4-92

VH

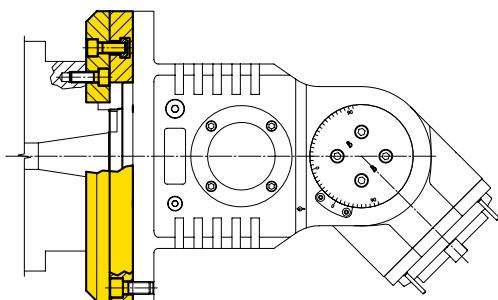
TSI/TSX

T

MT-TC-TC3



Esempio di collegamento / Connection example



Equipaggiamento standard:

- pressurizzazione mandrino
- n. 4 ugelli orientabili vicino al mandrino
- regolazione angolare mandrino libera
 - nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Standard equipment:

- spindle front pressurization
- nr. 4 adjustable nozzle near the spindle
 - free angle spindle adjustment
 - on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40



TAV50.T

TESTA AD ANGOLO - ANGLE HEAD



145 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø45



M36



6180 N



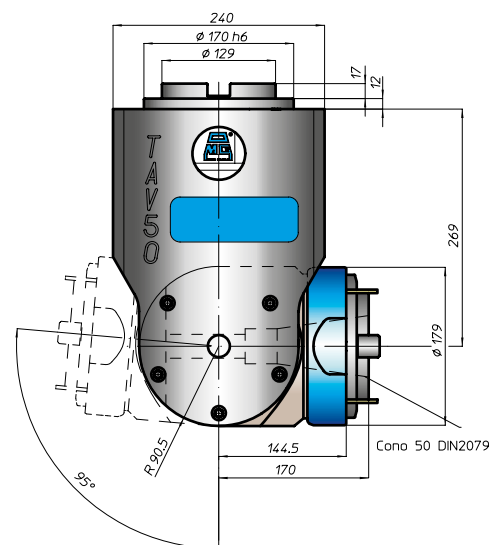
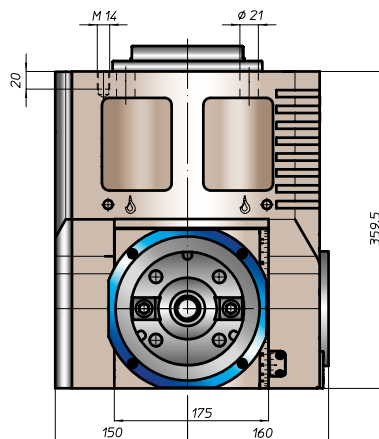
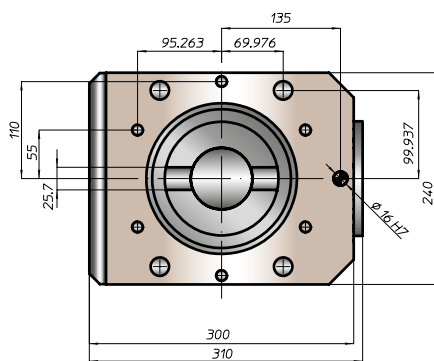
1-2

4000
OUTPUT

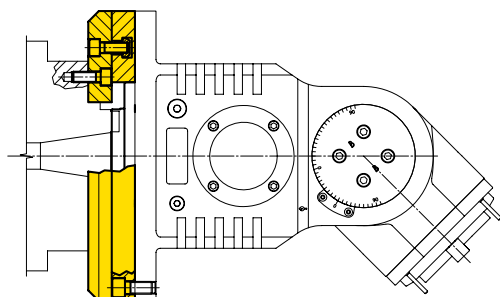
290

CARATTERISTICHE
FEATURESHSK A100
DIN69893-HSK

COROMANT CAPTO®

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES

Esempio di collegamento / Connection example



Equipaggiamento standard:

- pressurizzazione mandrino
- n. 4 ugelli orientabili vicino al mandrino
- regolazione angolare mandrino libera o posizionabile ogni 15°
- nel mandrino DIN2079 si possono utilizzare coni DIN69871-A50, MAS403-BT50

Standard equipment:

- spindle front pressurization
- nr. 4 adjustable nozzle near the spindle
- free angle spindle adjustment or by pin each 15°
- on the spindle DIN2079 you can use shank DIN69871-A50, MAS403-BT50



TAV

GALLERY

FH

BAH

TA.CP

TA

MOX

HT

4-94

VH

TSI/TSX

T

MT-TC-TC3



FH

BAH

TA.CP

TA

MOX

HT

4-95

VH

TSI/TSX

T

MT-TC-TC3

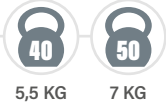


TAF

GALLERY

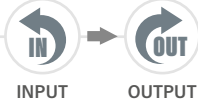


PESO
WEIGHT



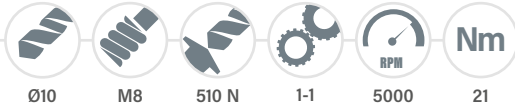
5,5 KG 7 KG

ROTAZIONE
ROTATION



INPUT OUTPUT

CARATTERISTICHE
FEATURES



Ø10 M8 510 N 1-1 5000 21



TAFE10.P

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

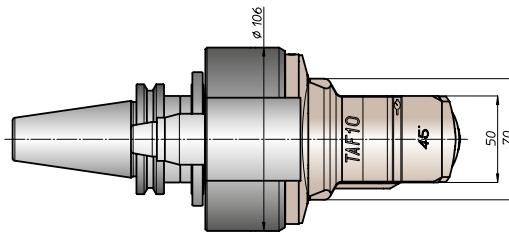
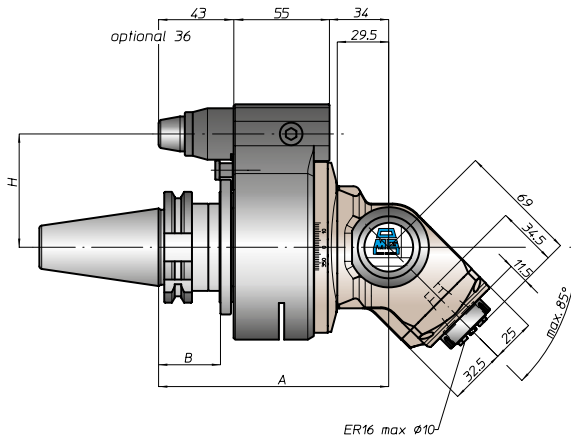
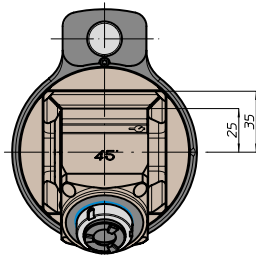
4-96

VH

TSI/TSX

T

MT-TC-TC3



CONO
SHANK



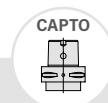
DIN69871



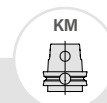
ANSIB5.50



DIN69893



ISO26623



DIN2080



ANSIB5.18

SIZE

30 40 45 50 40 50 40 50 63 80 100 C5 C6 C8 63 80 100

A

132 132 132 140 141 136 132

B

35 35 35 45 44 46 39 41

H STANDARD

65 80 65 80 65 80 65 80 65 80 65 80

H OPTIONAL

110 110 110 110 110 110 110





TAF13.P

TESTA AD ANGOLO - ANGLE HEAD



6,5 KG



8,5 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø13



M10



900 N



1-1



4000



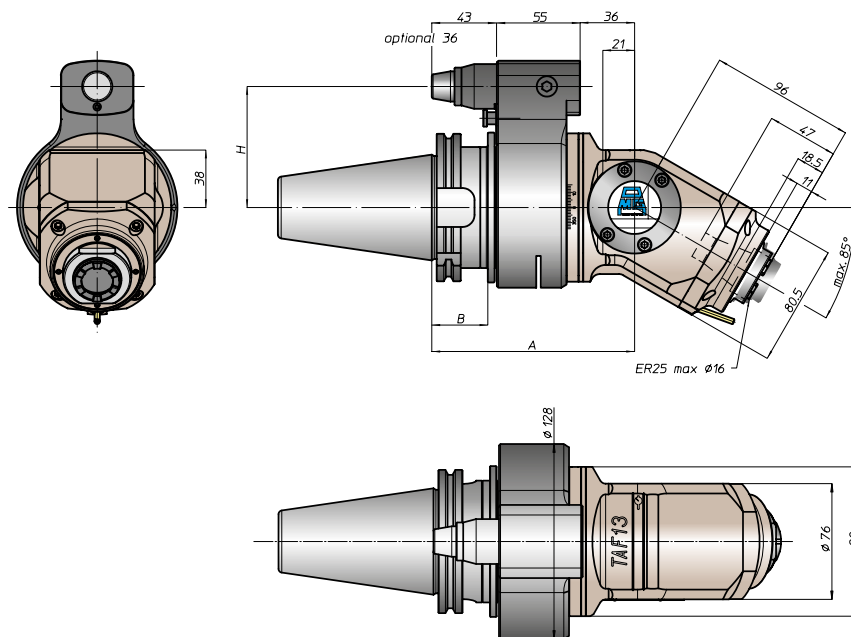
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CARATTERISTICHE
FEATURES



HSK32
DIN69893-HSK

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



CONO
SHANK



DIN69871



ANSIB5.50



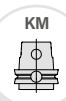
BT



DIN69893



ISO26623



63 80 100



DIN2080



ANSIB5.18

SIZE

40 45 50

40 50

40 50

63 80 100

C5 C6 C8

63 80 100

A

134

134

134 142

143

138

134

B

35

35

35 45

44 46

39 41

H STANDARD

65 80

65 80

65 80

65 80

65 80

65 80

H OPTIONAL

110

110

110

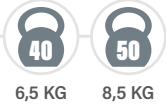
110

110

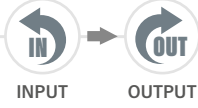
110



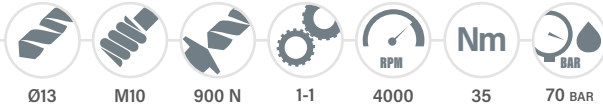
PESO
WEIGHT



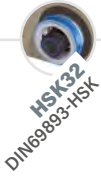
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



TAFE13.PD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

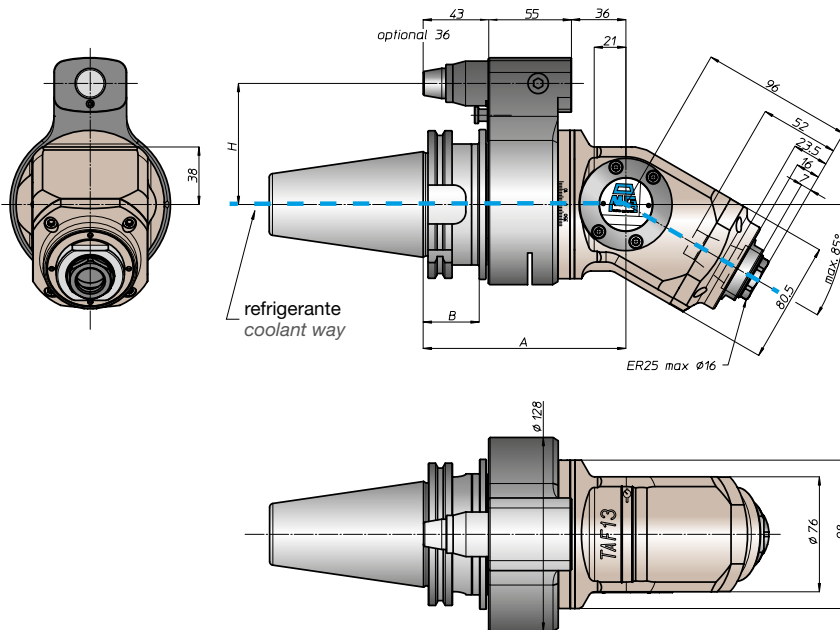
4-98

VH

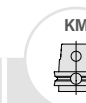
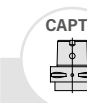
TSI/TSX

T

MT-TC-TC3



CONO
SHANK



SIZE

40 45 50 40 50 40 50 63 80 100 C5 C6 C8 63 80 100

A

134 134 134 142 143 138 134

B

35 35 35 45 44 46 39 41

H STANDARD

65 80 65 80 65 80 65 80 65 80

H OPTIONAL

110 110 110 110 110 110 110



FH

BAH

TA.CP

TA

MOX

HT

4-99

VH

TSI/TSX

T

MT-TC-TC3



TAF20.P

TESTA AD ANGOLO - ANGLE HEAD



50

13,5 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø20



M26



1610 N



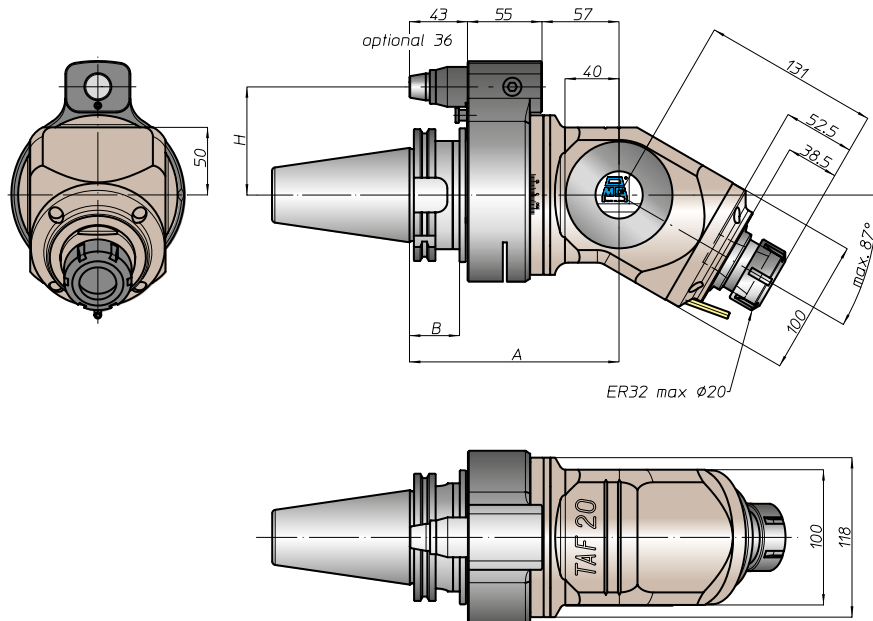
1-1



3000



79

CARATTERISTICHE
FEATURESER40
DIN6499-ERØ32
PORTAFRESSE
FACE MILL ARBORØ20
WELDON
WHISTLE-NOTCHHSK50
DIN69893-HSKABS50
LICENZA KOMET®
KOMET LICENCE®MANDRINI
DISPONIBILI
AVAILABLE
SPINDLESCONO
SHANK

DIN69871



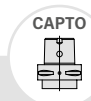
ANSIB5.50



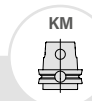
BT



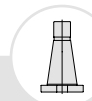
DIN69893



ISO26623



80 | 100



DIN2080



ANSIB5.18

SIZE

45

50

50

50

80

100

C6

C8

80

100

A

155

155

163

164

159

155

B

35

35

45

46

41

H STANDARD

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

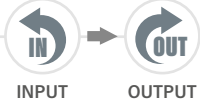


PESO
WEIGHT



13,5 KG

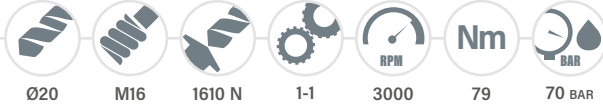
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø20

M16

1610 N

1-1

3000

Nm

79

BAR

70

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



ER40
DIN6499-ER

Ø20
WELDON
WHISTLE-NOTCH

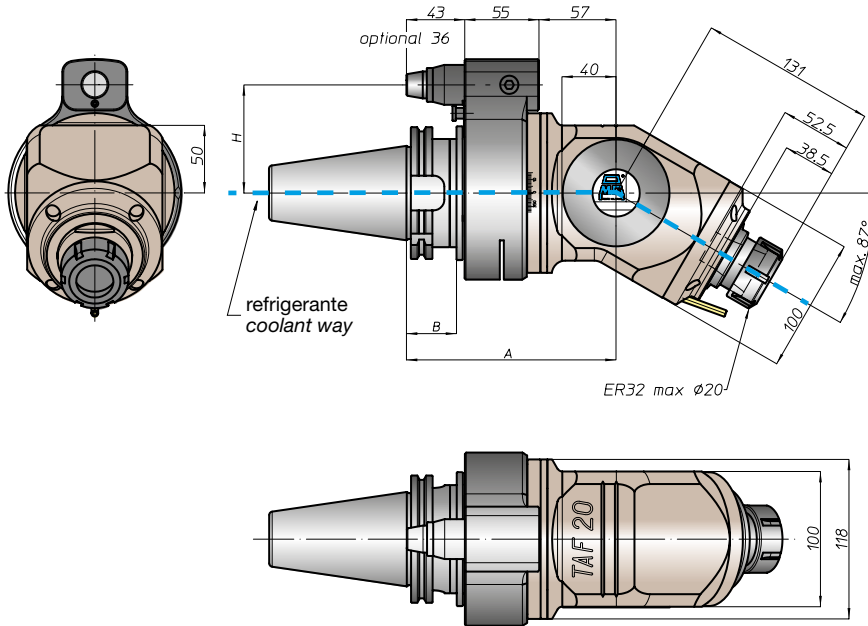
HSK50
DIN69893-HSK

ABS50
LICENZA KOMET®
KOMET LICENCES®



TAF20.PD

TESTA AD ANGOLO - ANGLE HEAD



CONO
SHANK



DIN9871



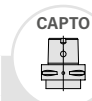
ANSIB5.50



BT

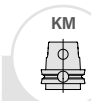


DIN9893



CAPTO

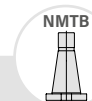
ISO26623



KM



DIN2080



NMTB

ANSIB5.18

SIZE

45

50

50

50

80

100

C6

C8

80

100

A

155

155

163

164

159

155

B

35

35

45

46

41

H STANDARD

80

80

80

80

80

80

H OPTIONAL

110

110

110

110

110

110

4-100

VH

TSI/TSX

T

MT-TC-TC3



FH

BAH

TA.CP

TA

MOX

HT



TA07PT

TESTA AD ANGOLO - ANGLE HEAD



HEAD EXTENSION



1,5 KG



L 100=2,2 KG
L 200=3,6 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø7



M6



180 N



1-1



10000



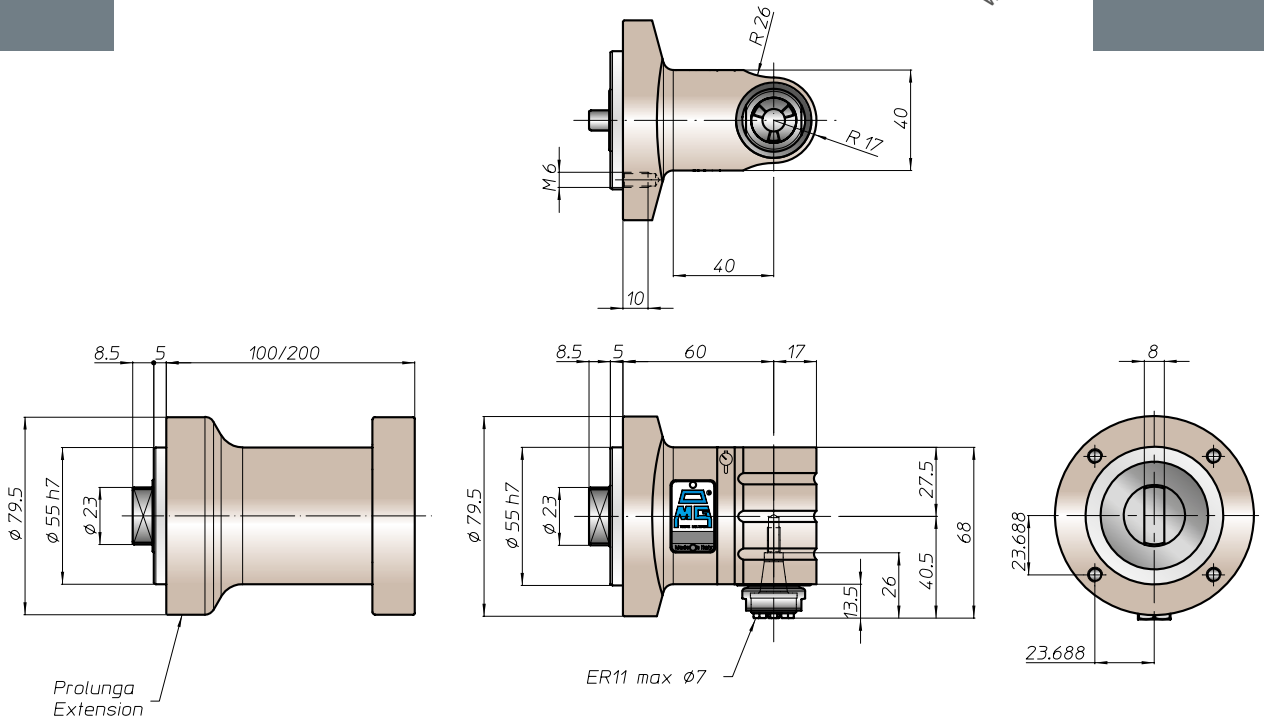
11

CARATTERISTICHE
FEATURES

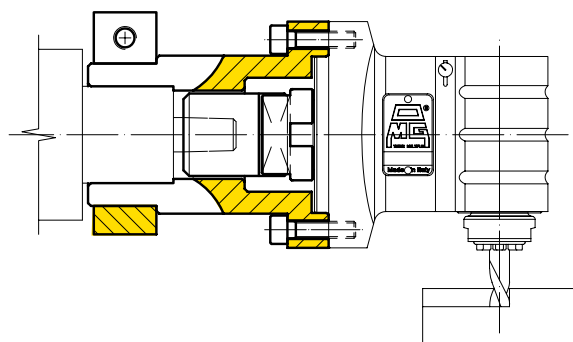


Ø8-Ø10
WELDON
WHISTLE-NOTCH

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



Esempio di collegamento / Connection example



TA10PT

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

4-102

VH

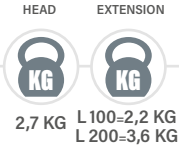
TSI/TSX

T

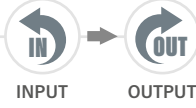
MT-TC-TC3



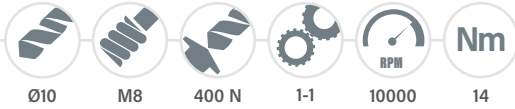
PESO
WEIGHT



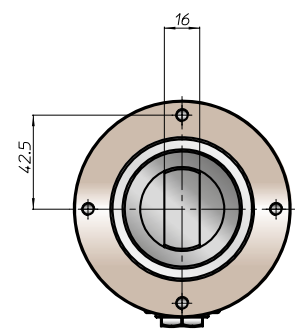
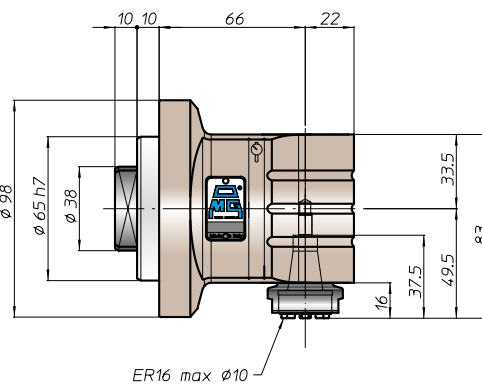
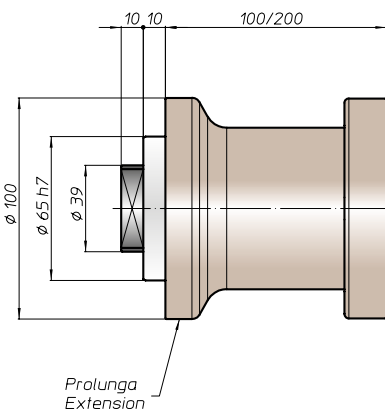
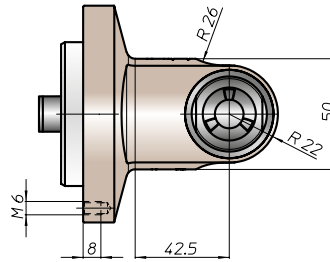
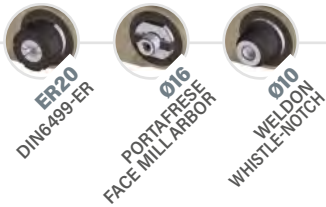
ROTAZIONE
ROTATION



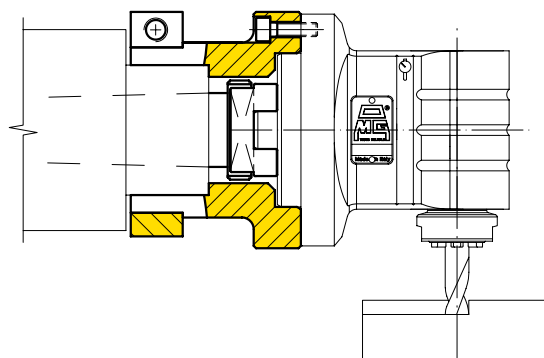
CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



Esempio di collegamento / Connection example





TA13PT

TESTA AD ANGOLO - ANGLE HEAD



3,5 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø13



M10



810 N



1-1



8000



38

CARATTERISTICHE
FEATURES



ER25
DING-499-ER

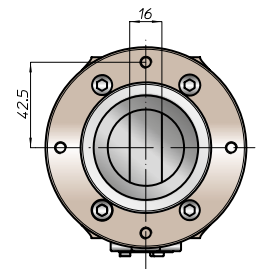
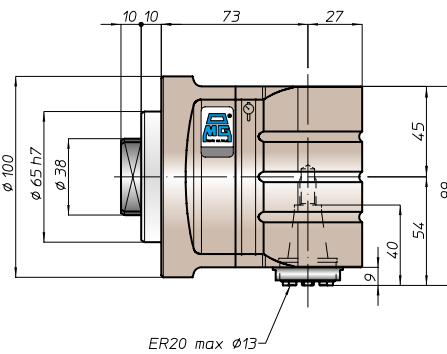
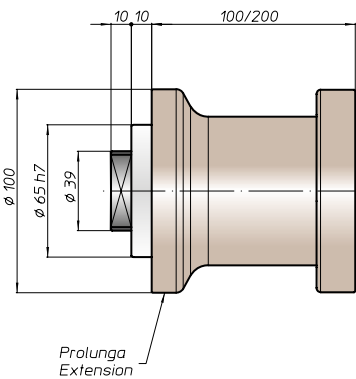
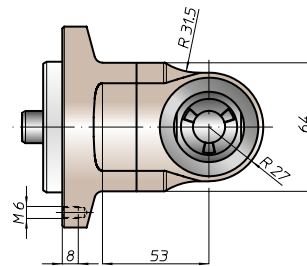


Ø16-Ø22
PORTA FRESIE
FACE MILL ARBOR

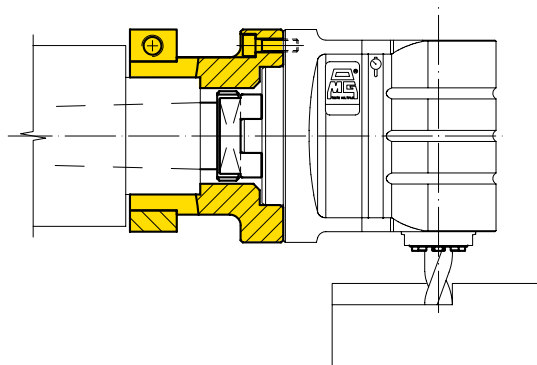


Ø16
WELDON
WHISTLE-NOTCH

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



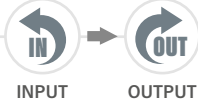
Esempio di collegamento / Connection example



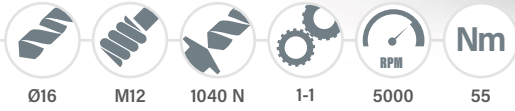
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



TA16PT

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

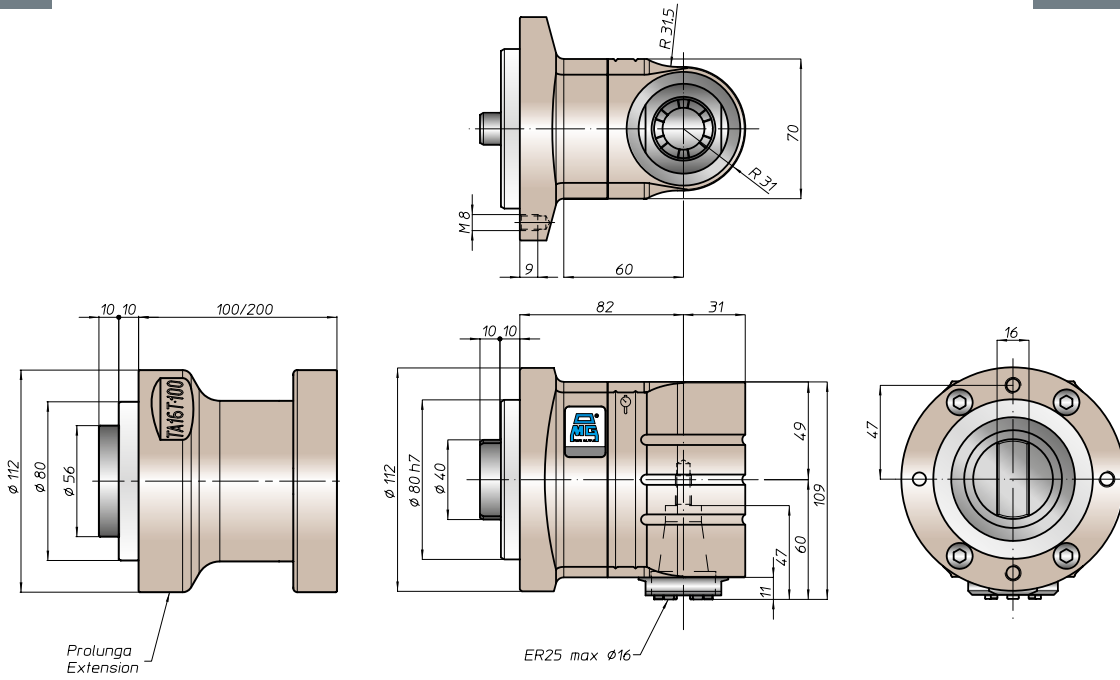
4-104

VH

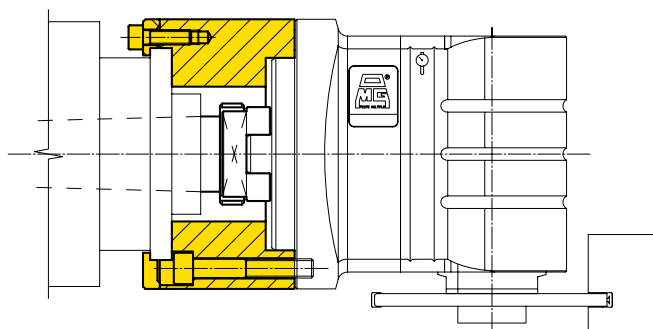
TSI/TSX

T

MT-TC-TC3



Esempio di collegamento / Connection example





TA20.PT

TESTA AD ANGOLO - ANGLE HEAD



HEAD EXTENSION



7,5 KG

L 100=7,5 KG
L 200=15 KGPESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø20



M14



1460 N



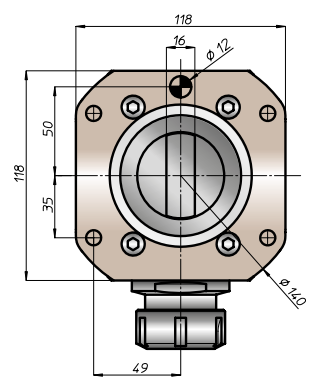
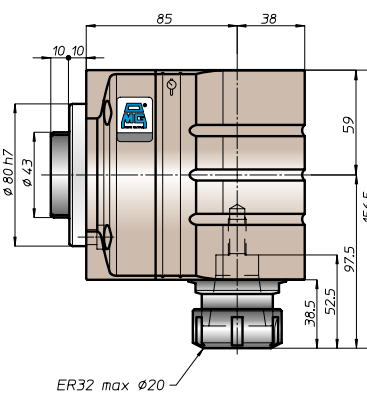
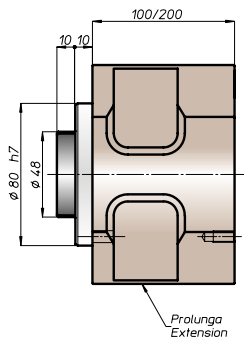
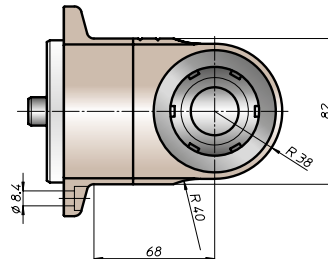
1-1



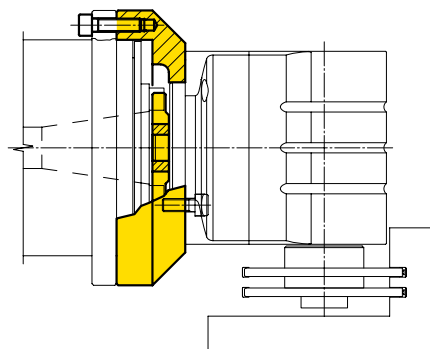
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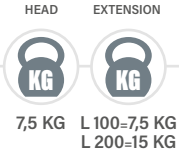
90

CARATTERISTICHE
FEATURESER40
DIN6499-ERØ22-Ø27-Ø32
PORTAFRESE
FACE MILL ARBORØ20-Ø25
WELDON
WHISTLE-NOTCHHSK40
DIN69893-HSKC4
COROMANT CAPTO®ABS40
LICENZA KOMET®
KOMET LICENCE®MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES

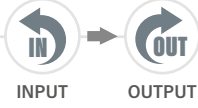
Esempio di collegamento / Connection example



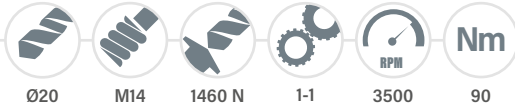
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



TA20-30.T

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

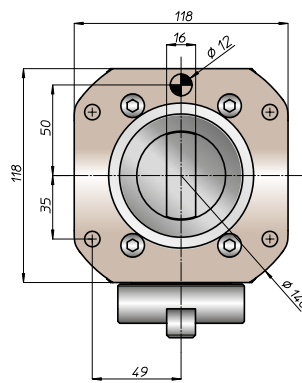
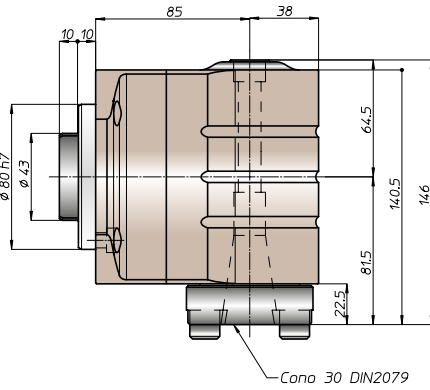
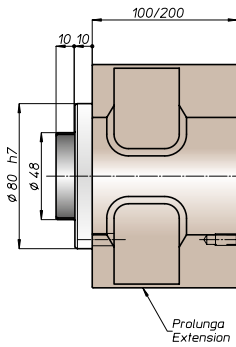
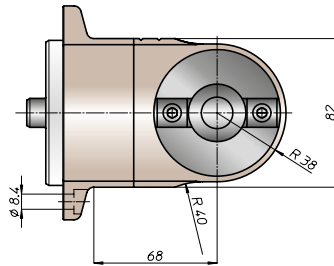
4-106

VH

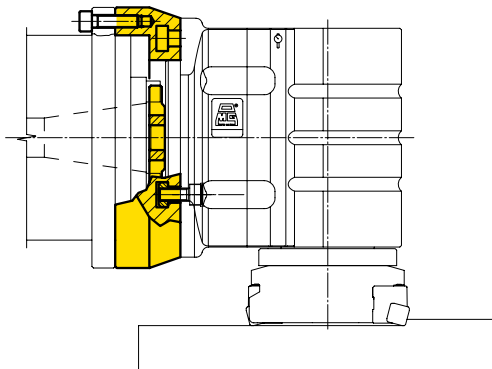
TSI/TSX

T

MT-TC-TC3



Esempio di collegamento / Connection example



Nota

nel mandrino DIN2079 si possono utilizzare coni DIN2080-30, DIN69871-A30, MAS403-BT30

Nota

on the spindle DIN2079 you can use shank DIN2080-30, DIN69871-A30, MAS403-BT30




TA26.PT

TESTA AD ANGOLO - ANGLE HEAD




HEAD EXTENSION




13,5 KG L 100=12,5 KG
L 200=24 KG

PESO
WEIGHT



INPUT OUTPUT

ROTAZIONE
ROTATION



Ø26 M20 3020 N 1-1 2500 Nm
165

CARATTERISTICHE
FEATURES



016-027-032
PORTA-PRESSE
FACE-MILL-ARBOR

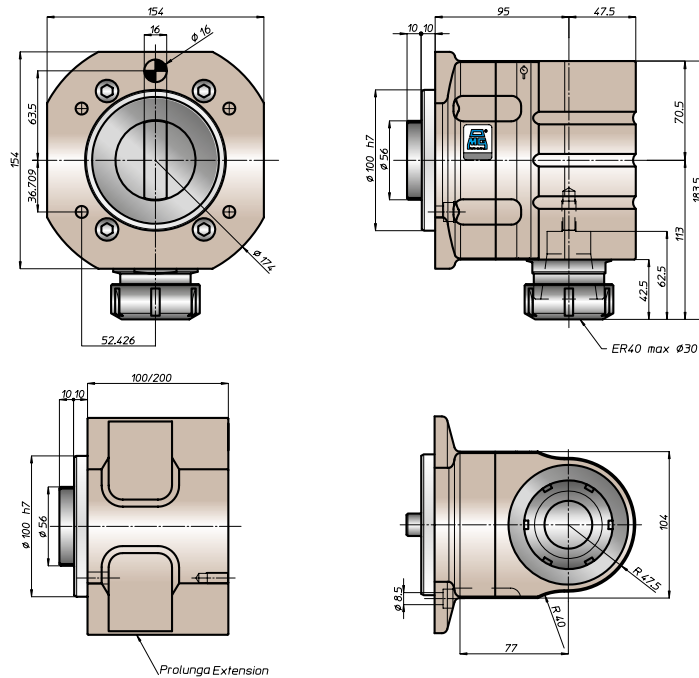
032
WELDON
WHISTLE-NOTCH

HSK63
DIN69893-HSK

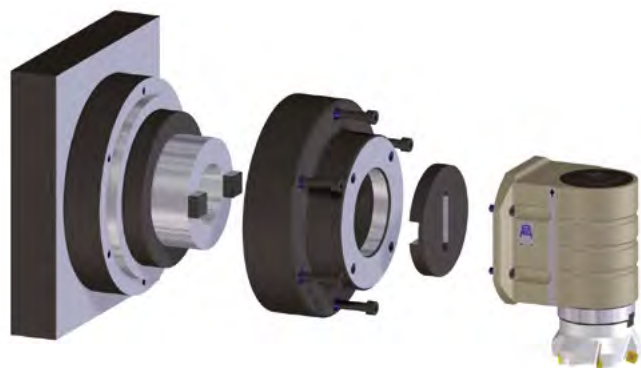
C4
COROMANT CAPTO®

ABS50
LICENZA KOMET®
KOMET LICENCE®

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



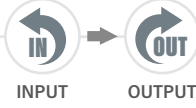
Esempio di collegamento / Connection example



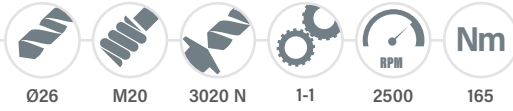
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



TA26.40.T

TESTA AD ANGOLO - ANGLE HEAD

FH

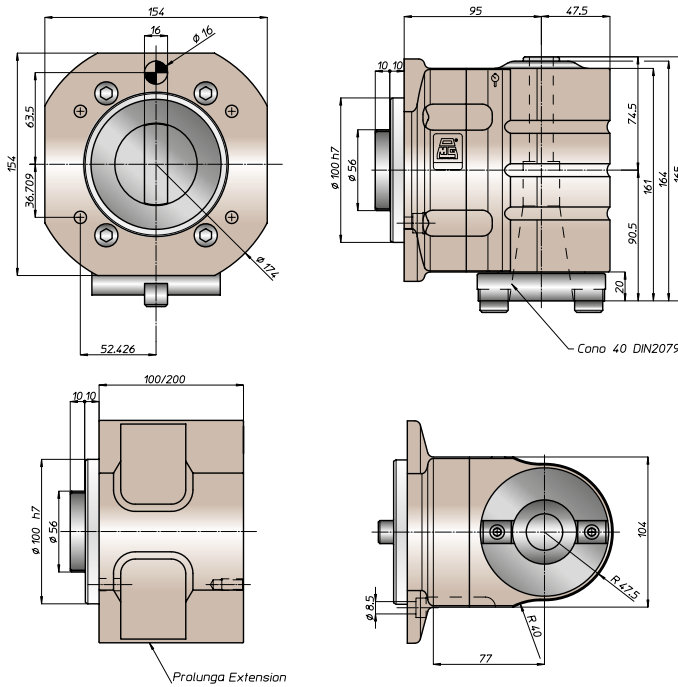
BAH

TA.CP

TA

MOX

HT



Nota

nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Note

on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

4-108

VH

TSI/TSX

T

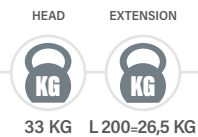
MT-TC-TC3

Esempio di collegamento / Connection example

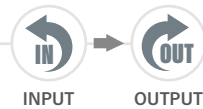


TA40.T

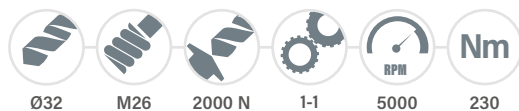
TESTA AD ANGOLO - ANGLE HEAD



PESO
WEIGHT



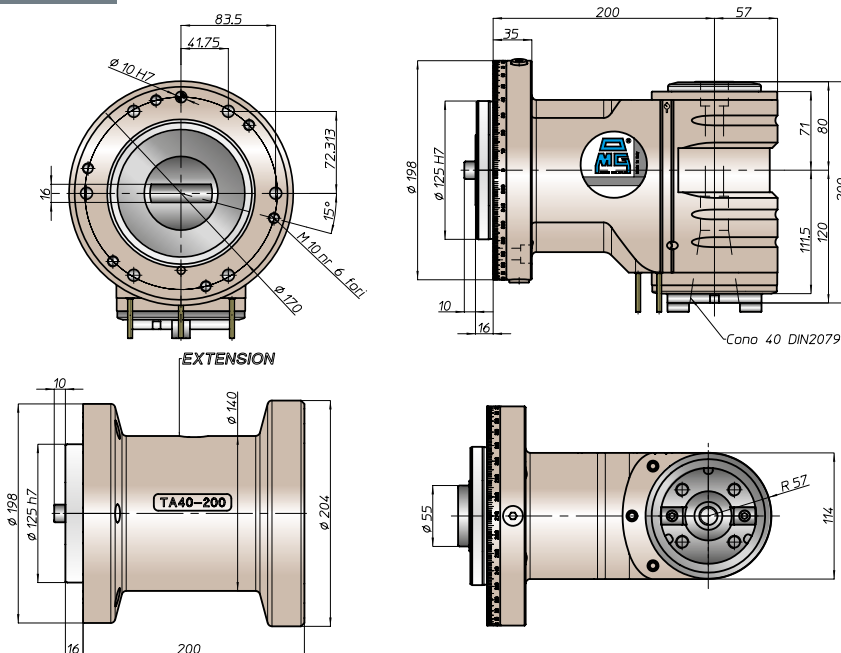
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



Equipaggiamento standard:

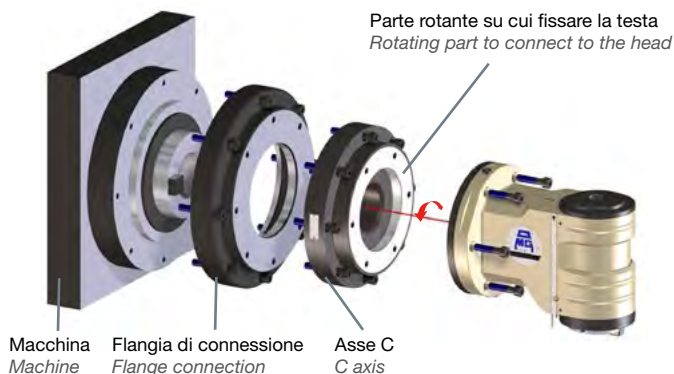
- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Standard equipment:

- spindle front pressurization
- nr. 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

Utilizzo su asse C manuale / Manual C axis

- Nuovo Asse C a rotazione manuale
- Compatto, semplice e preciso
- Bloccaggio rotazione su cava a T
- Rotazione libera su cuscinetto a rulli incrociati
- Facilità di posizionamento
- New C Axis with manual rotation
- Space-saving, user friendly and precise
- Rotation lock on T slot
- Free rotation on crossed roller bearings
- Easy set up



Macchina
Machine

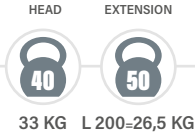
Flangia di connessione
Flange connection

Asse C
C axis

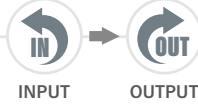
Parte rotante su cui fissare la testa
Rotating part to connect to the head



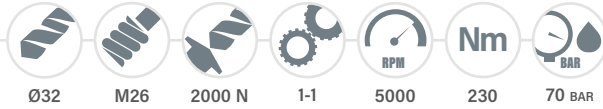
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



TA40.TD

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

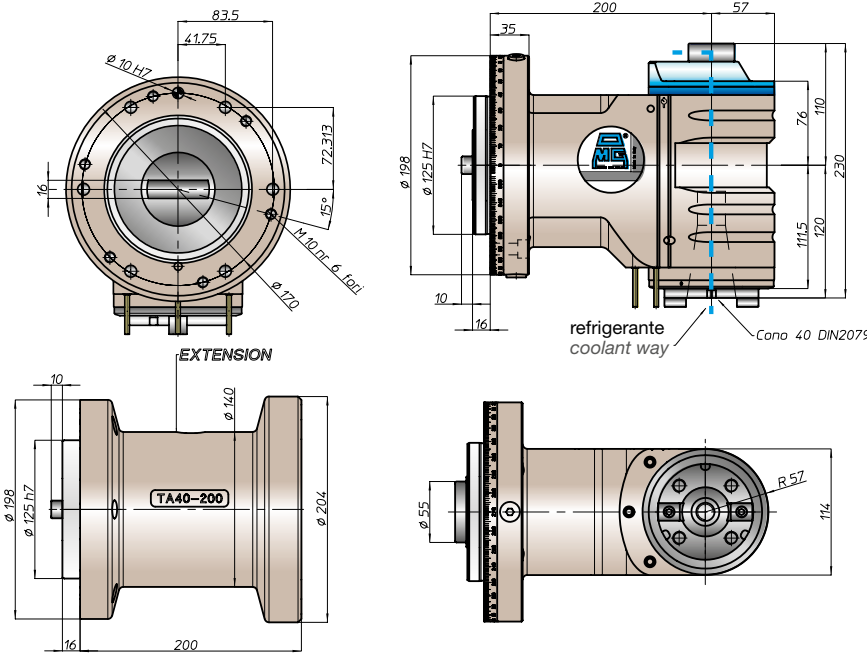
4-110

VH

TSI/TSX

T

MT-TC-TC3



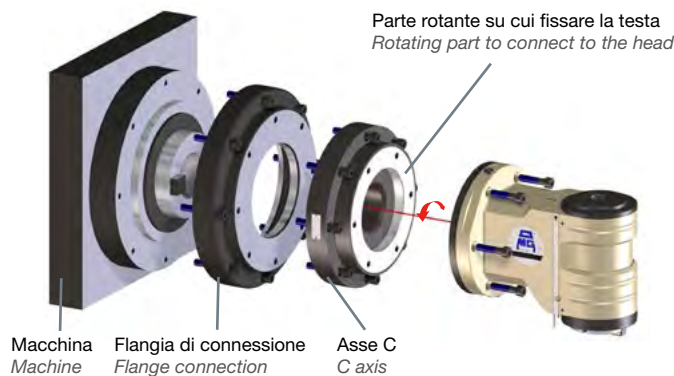
Equipaggiamento standard:

- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Standard equipment:

- spindle front pressurization
- nr. 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

Esempio di collegamento / Connection example



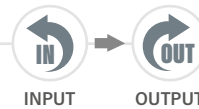


TA50.T

TESTA AD ANGOLO - ANGLE HEAD



PESO
WEIGHT



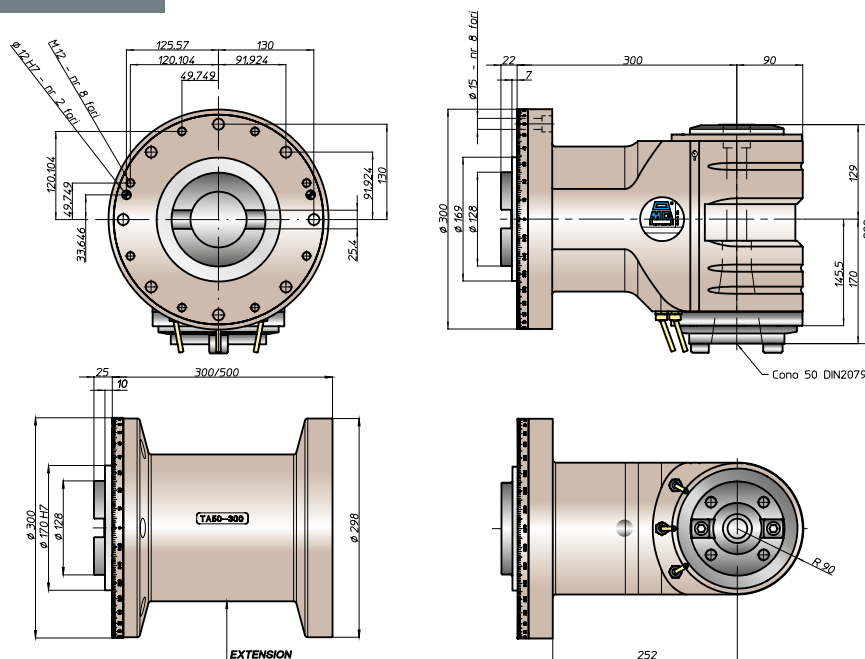
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



Equipaggiamento standard:

- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

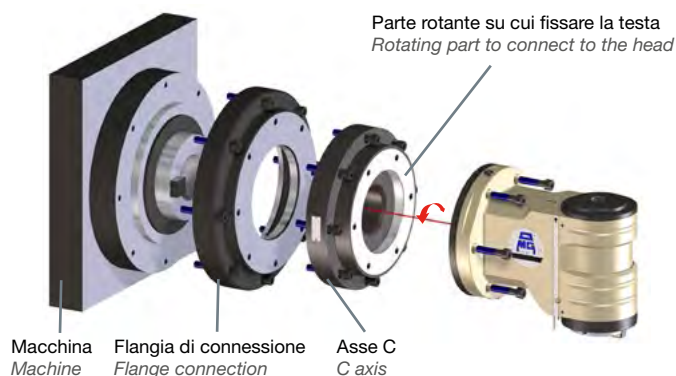
Standard equipment:

- spindle front pressurization
- nr. 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

Utilizzo su asse C manuale / Example with manual C axis

- Nuovo Asse C a rotazione manuale
- Compatto, semplice e preciso
- Bloccaggio rotazione su cava a T
- Rotazione libera su cuscinetto a rulli incrociati
- Facilità di posizionamento

- New C Axis with manual rotation
- Space-saving, user friendly and precise
- Rotation lock on T slot
- Free rotation on crossed roller bearings
- Easy set up



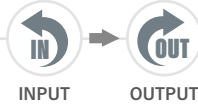
TA50.TD

TESTA AD ANGOLO - ANGLE HEAD

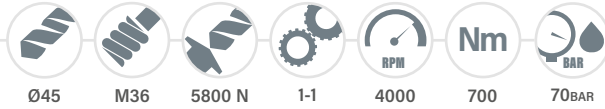
PESO
WEIGHT



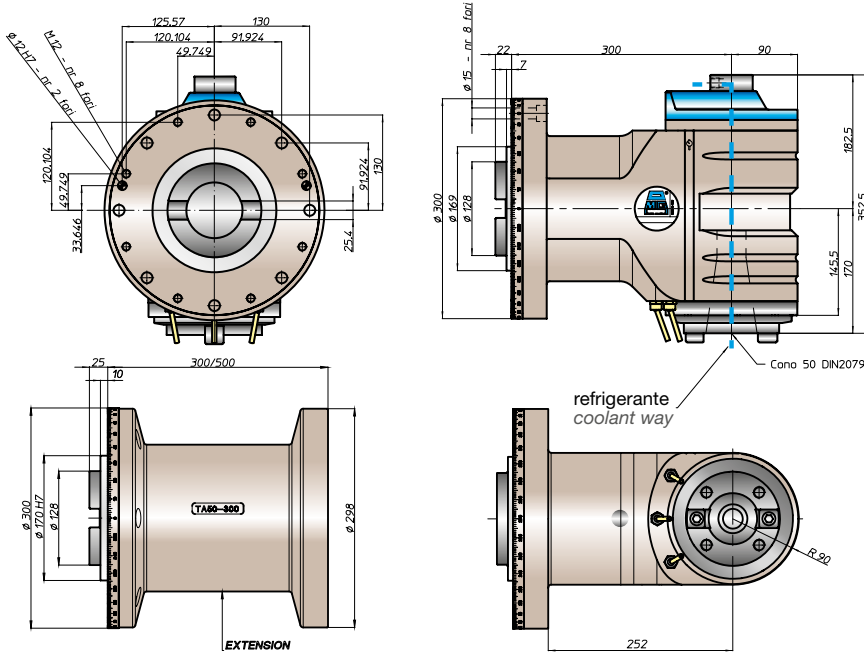
ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



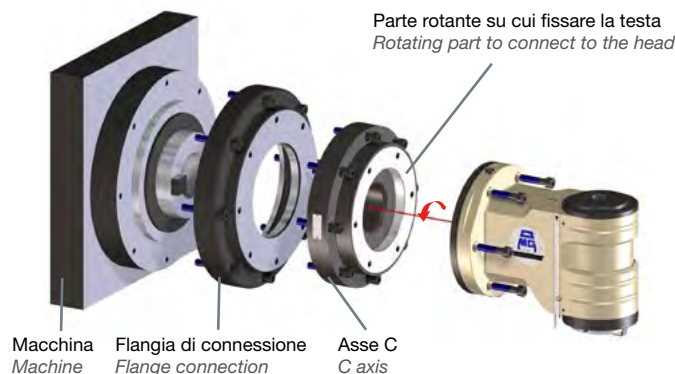
Equipaggiamento standard:

- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN69871-A50, MAS403-BT50

Standard equipment:

- spindle front pressurization
- nr. 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN69871-A50, MAS403-BT50

Esempio di collegamento / Connection example



FH

BAH

TA.CP

TA

MOx

HT

4-113

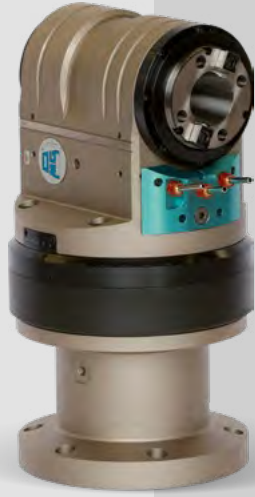
VH

TSI/TSX

T

MT-TC-TC3





TA.A.T

EXTENDED GALLERY

FH

BAH

TA.CP

TA

MOX

HT

4-114

VH

TSI/TSX

T

MT-TC-TC3



FH

BAH

TA-CP

TA

MOx

HT

4-115

VH

TSI/TSX

T

MT-TC-TC3



TA13.PVDI

TESTA AD ANGOLO - ANGLE HEAD



4,5 KG

PESO
WEIGHT

INPUT



OUTPUT

ROTAZIONE
ROTATION

Ø13



M10



810 N



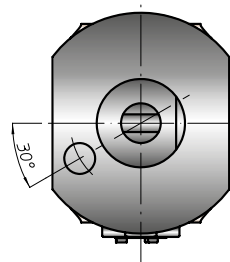
1-1



8000



38

CARATTERISTICHE
FEATURESER25
DIN6499-ERØ16-Ø22
PORTA-FRESSE
FACE MILL ARBORØ16
WELD ON
WHISTLE-NOTCHMANDRINI
DISPONIBILI
AVAILABLE
SPINDLESDIN1809
DIN5482DIN69880-20
DIN69880-30
DIN69880-40

ER20 max Ø13

R 37,5

R 27

53

Soluzioni speciali / Special solutions

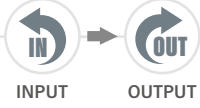


PESO
WEIGHT



6,5 KG

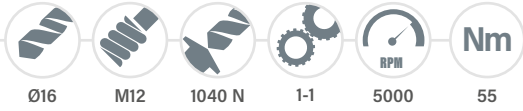
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø16

M12

1040 N

1-1

5000

55

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



ER32

DIN6499-ER

Ø16-Ø27-Ø32

PORTAFRESE

FACE MILL ARBOR

Ø20

WELDON

WHISTLE-NOTCH

HSK32

DIN69893-HSK

C3

COROMANT CAPTO®

ABS32

LICENZA KOMET®

KOMET LICENCE®

TA16.PVDI

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

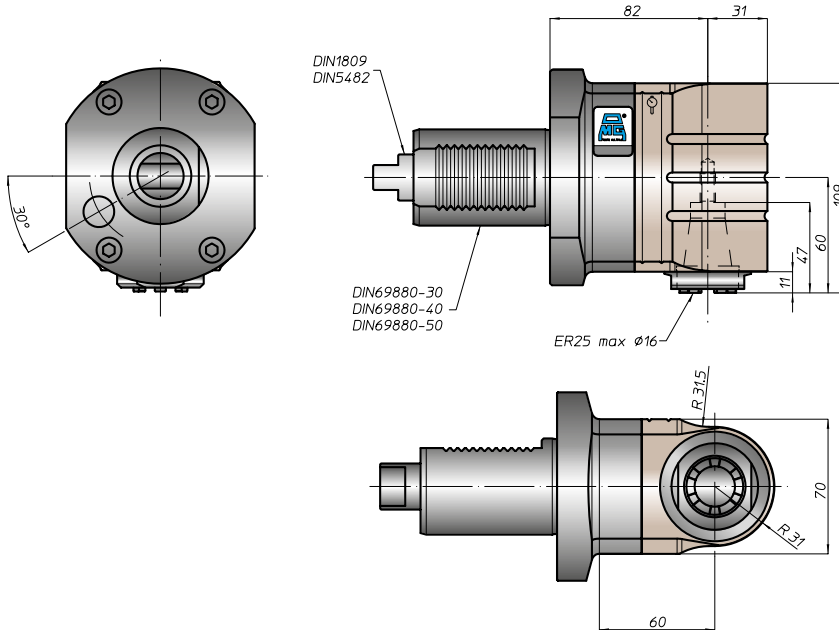
4-116

VH

TSI/TSX

T

MT-TC-TC3



Soluzioni speciali / Special solutions





TAV10.PVDI

TESTA AD ANGOLO - ANGLE HEAD



3,5 KG

PESO
WEIGHT



INPUT



OUTPUT

ROTAZIONE
ROTATION



Ø10



M8



550 N



1-1



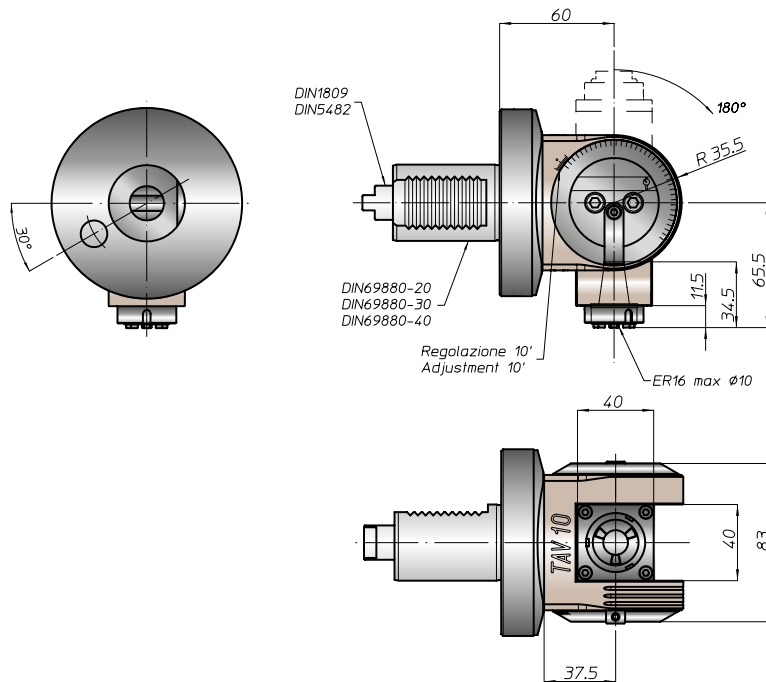
4000



Nm

12

CARATTERISTICHE
FEATURES



Soluzioni speciali / Special solutions

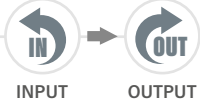


PESO
WEIGHT



5,5 KG

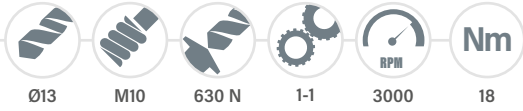
ROTAZIONE
ROTATION



INPUT

OUTPUT

CARATTERISTICHE
FEATURES



Ø13

M10

630 N

1-1

3000

18

MANDRINI
DISPONIBILI
AVAILABLE
SPINDLES



ER25
DIN6499-ER



Ø16
WELDON
WHISTLE-NOTCH



TAV13.PV DI

TESTA AD ANGOLO - ANGLE HEAD

FH

BAH

TA.CP

TA

MOX

HT

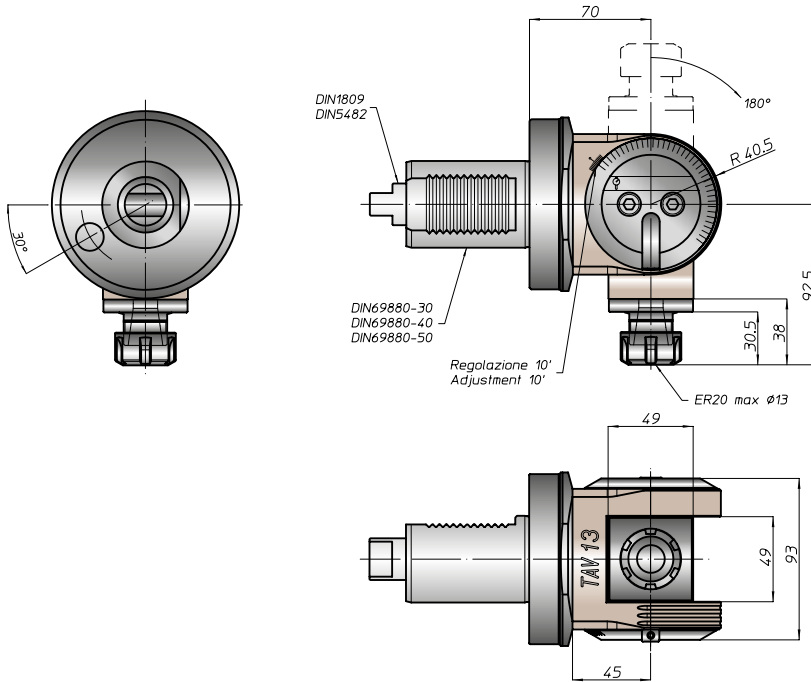
4-118

VH

TSI/TSX

T

MT-TC-TC3



Soluzioni speciali / Special solutions





ANTIROTANTE TORQUE ARM



Il gruppo antirotante ricopre una funzione di fondamentale importanza nella qualità di lavorazione della testa ad angolo. Per questo motivo i tecnici della OMG hanno studiato e messo a punto un antirotante di nuova concezione i cui punti salienti sono:

- Il perno conico
- La registrazione assiale del perno
- Adduzione del liquido passante per il corpo testa

Il perno conico e la propria registrazione assiale di mm 1.5 permettono una maggiore rigidità del sistema antirotante rispetto ai tradizionali, dotati di perni di Ø18 mm perché si eliminano i giochi con conseguente miglioramento della rigidità sia angolare che assiale.

L'adduzione del liquido passante per il corpo testa, la cui uscita avviene tramite un ugello direzionabile, offre il vantaggio di non avere tubi "volanti" che possono muoversi durante le lavorazioni.

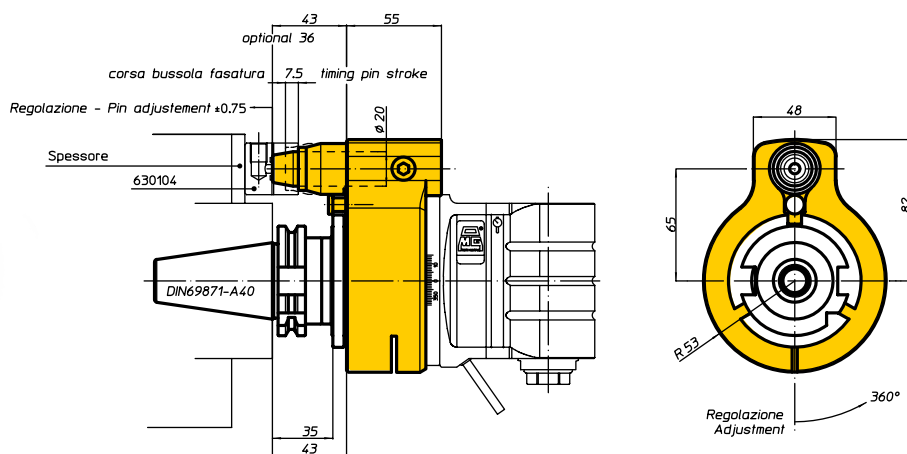


Scannerizza il codice per vedere il video di montaggio delle Teste ad Angolo

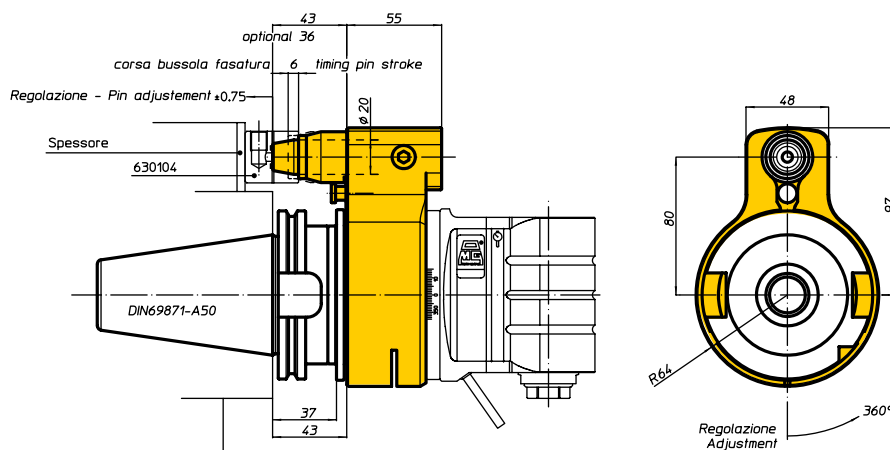


Quando possibile, nella Vostra applicazione, posizionate il perno conico dalla parte opposta al mandrino della testa ad angolo.

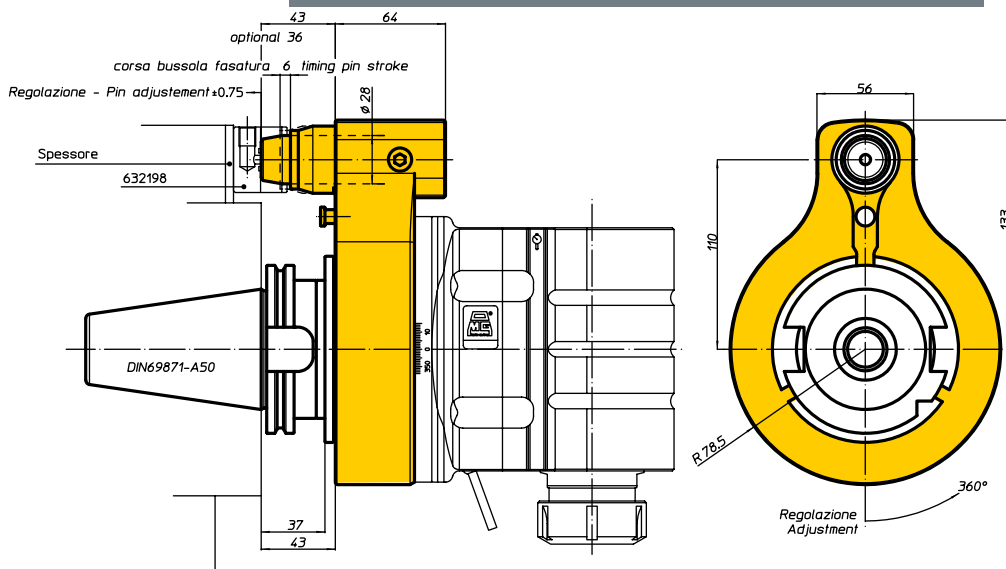
TESTE AD ANGOLO CON INTERASSE H=65 ANGLE HEADS WITH CENTRE DISTANCE H=65

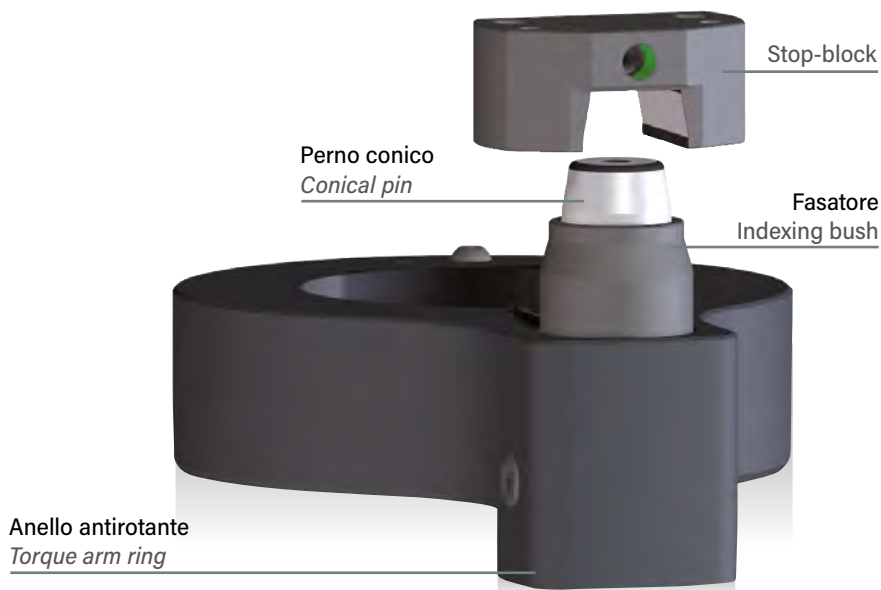


TESTE AD ANGOLO CON INTERASSE H=80 ANGLE HEADS WITH CENTRE DISTANCE H=80



TESTE AD ANGOLO CON INTERASSE H=110 ANGLE HEADS WITH CENTRE DISTANCE H=110

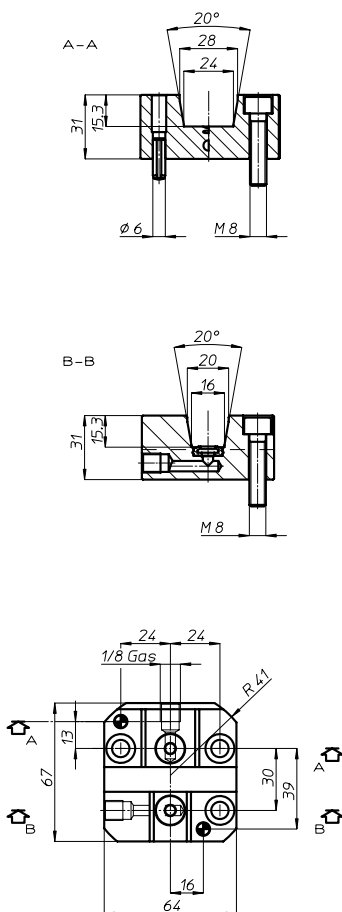




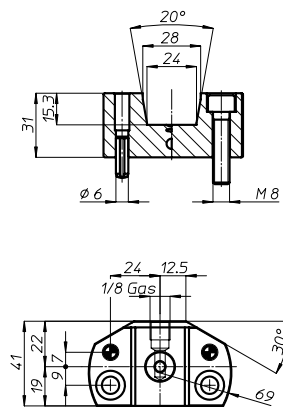
The torque arm system is crucial as far as angle-head machining quality is concerned. For this reason OMG technicians have designed and developed a new system with the following characteristics:

- conical pin
- axial pin adjustment
- coolant through the head body

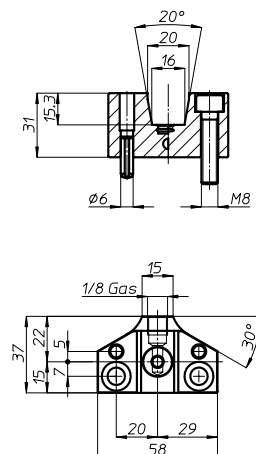
DOUBLE STOP-BLOCK (COD. 635354)



STOP-BLOCK (COD. 635353)



STOP-BLOCK (COD. 635352)



The conical pin and its 1.5 mm axial adjustment ensure upgraded anti-rotation system strength compared to traditional systems, featuring $\varnothing 18$ mm pin, because play is eliminated, thereby improving both angular and axial strength. By the pin the coolant through the head, thanks to an adjustable nozzle, the added advantage is achieved of eliminating "free" pipes that could move during machining operations.



Scan the QR code and watch the video on how to install the Angle Heads



Position the conical pin on the opposite side of the angle head spindle when possible in your application.

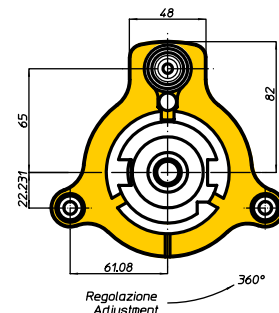
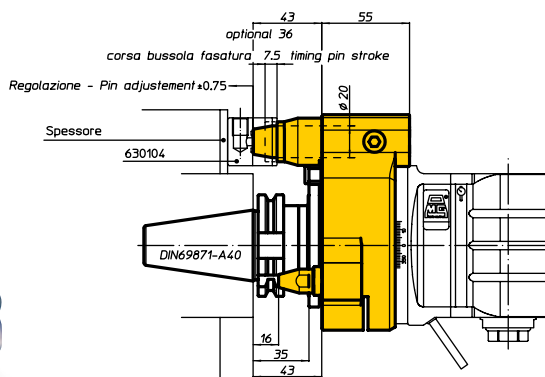


ANTIROTANTE TORQUE ARM

TriBlock



TESTE AD ANGOLO CON INTERASSE H=65 ANGLE HEADS WITH CENTRE DISTANCE H=65



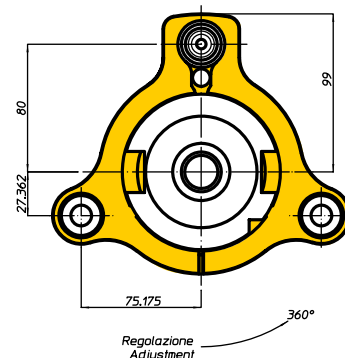
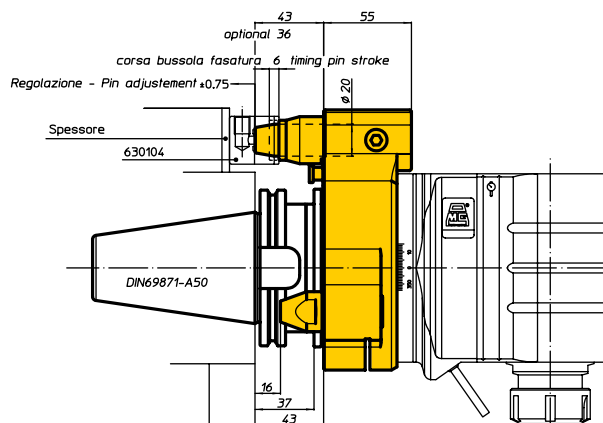
Il gruppo antirotante **TriBlock** ricopre una funzione di fondamentale importanza quando alla testa ad angolo è richiesto di:

- eseguire una lavorazione più pesante
- essere più lunga dello standard
- finitura superficiale eccellente

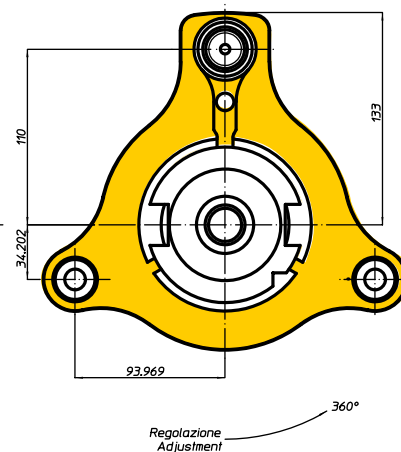
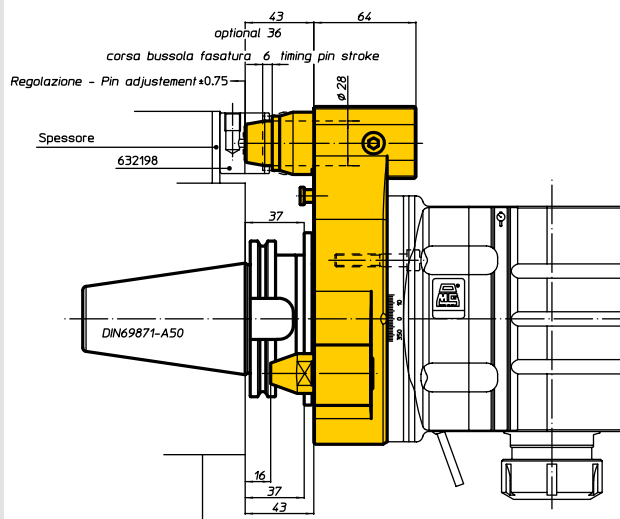
Il **TriBlock** è dotato di tre punti di appoggio di cui uno è lo standard come nei precedenti e due supplementari da registrare tramite un rasamento. Questi tre punti, allargando l'appoggio di base della testa ad angolo, consentono di ottenere una rigidità superiore allo standard.

Quando poi si richiede alla testa di essere immagazzinata su di un supporto esterno al magazzino standard, ecco che il **TriBlock** utilizza i propri tre punti per posizionare la testa.

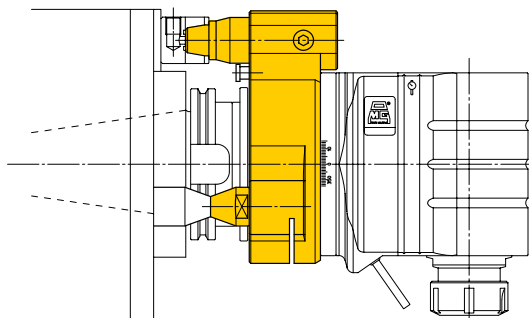
TESTE AD ANGOLO CON INTERASSE H=80 ANGLE HEADS WITH CENTRE DISTANCE H=80



TESTE AD ANGOLO CON INTERASSE H=110 ANGLE HEADS WITH CENTRE DISTANCE H=110



Sul mandrino macchina
On spindle machine



TFS 19907

Testa ad angolo per fresatura
componente motore a reazione.
Peso Kg 45,5
Milling angle head for jet engine.
Weight Kg 45,5

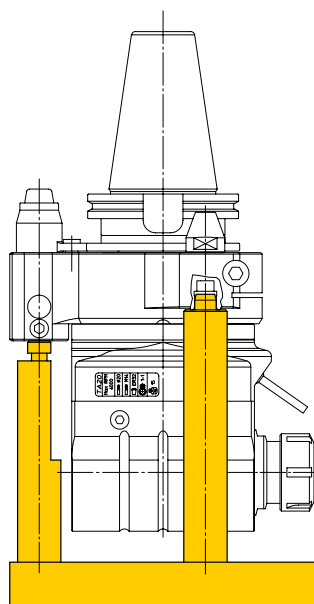


TFS 39195

Testa bimandrino di fresatura
n° 2 frese Ø 100 peso Kg 33
Twin milling head,
nr. 2 milling cutter
Ø 100 weight Kg 33



Sul supporto da tavola
On rack table



The **TriBlock** system is of crucial importance when it comes to:

- doing difficult jobs
- having a head that is longer than standard
- achieving an excellent surface finish

The **TriBlock** system features three supporting points, one of which is standard, as in the previous version, plus two additional ones that need adjusting by means of a spacer. These three points, by extending the angle-head supporting base, provide above-average standards of strength.

When the head has to be stored on a rack table outside the standard magazine, the **TriBlock** system uses the three points to storage the angle heads.



ANTIROTANTE TORQUE ARM

QuadBlock 



Il sistema antirotante **QuadBlock** è un sistema all'avanguardia per equipaggiare Teste ad Angolo dove si richiede alta asportazione e alta rigidità dell'insieme "testa ad angolo-macchina". Utilizzabile nel montaggio manuale, esso consiste in un anello antirotante completo di quattro perni di contrasto suddivisi equamente sui 360°. Tale disposizione consente di poter ruotare la Testa ad Angolo in automatico con un semplice movimento della macchina, se questa ne ha le capacità. Il vantaggio di poter lavorare quattro facce del pezzo senza sostituire la Testa ad Angolo si concretizza con la riduzione dei costi previsti per gli utensili.

L'evoluzione del sistema **QuadBlock** per le macchine con cambio automatico, consente di utilizzare la Testa ad Angolo come un prolungamento del mandrino macchina ruotato dei gradi richiesti dal cliente. È possibile inoltre sostituire il portautensile in automatico ed ampliare infinitamente la versatilità della macchina utensile avendo a disposizione quei servizi normalmente presenti sul mandrino macchina:

- Aria pulizia del portautensile
- Liquido refrigerante centro utensile alta pressione
- Liquido refrigerante esterno utensile
- Liquido bloccaggio-sbloccaggio utensile
- Controllo presenza utensile

Tutto ciò per consentire l'utilizzo di portautensili tipo Capto, HSK, DIN69871. Mettiamo a disposizione il nostro ufficio tecnico e la nostra esperienza per personalizzare al meglio il Vostro sistema.

TAS13609

Fresatura su corpo in fusione di ghisa.
Peso kg 36.
*Milling on cast iron pump's body.
Weight 36 kg.*



TAS13209

Lavorazione di finitura interna culle motore idraulico. Peso kg 36.
Internal finishing work for hydraulic motor's body. Weight 21 kg.



TAS16209

Linee di servizio per il mandrino HSK63F con cambio automatico dell'utensile, sensore presenza utensile in radiofrequenza.
Peso kg 28.
Utility line for HSK63F spindle with automatic tool change, radio-frequency switch to verify tool presence. Weight 28 kg.



TAS24408

Lavorazione di fresatura
interna corpo pinza
freno in ghisa.

Peso Kg 28.

*Triblock with automatic
locking. Cast iron brake
housing internal milling
work. Weight 28 kg.*



TA12907

Lavorazione di fresatura
generica struttura
elettrosaldata di acciaio.
Peso Kg 48.

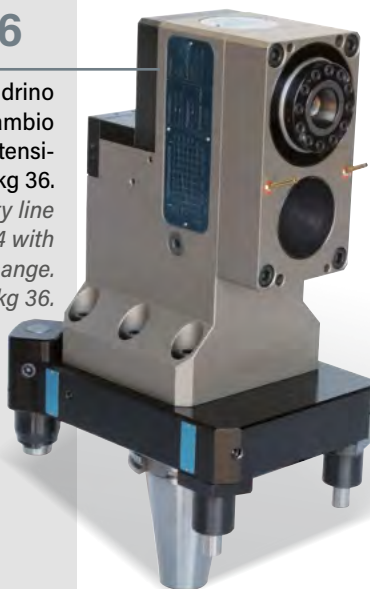
*Special Quadblock
with automatic locking.
General milling work
on electro-welded steel
structure. Weight 48 kg.*



TAS08606

Servizi per mandrino
CAPTO C4 con cambio
automatico dell'utensile.
Peso kg 36.

*Spindle with utility line
for CAPTO C4 with
automatic tool change.
Weight kg 36.*

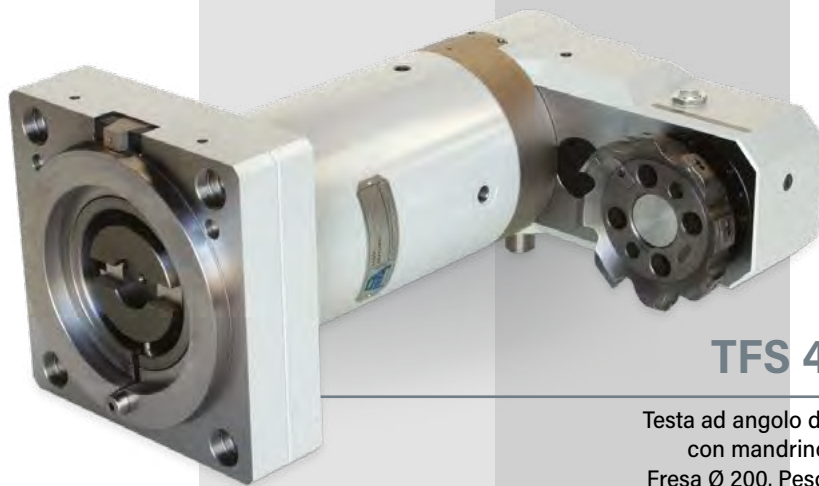


The **QuadBlock** torque arm is a forefront system to equip Angle Heads which are requested with a high removal machining capacity and with extremely high rigidity in coupling with the machine tool. It can be used with a manual tool change and is made by a torque arm ring complete with four counterposed pins with same distance each other on the 360°. Such a layout allows an automatic rotation of the Angle Head with a simple movement of the machine if featured to do it. The possibility of machining four faces of the piece without replacing the Angle Head is giving the advantage of reducing costs of tools equipment.

The evolution of the **QuadBlock** system on automatic tool change machines allows to use the Angle Head like an extension of the machine spindle with the degree rotations required by the customer. It is also possible to automatically change the tool holder and to infinitely widen the versatility of the machine tool getting those utilities normally available on the machine spindle:

- tool-holder cleaning air
- through-tool high pressure coolant
- side-tool coolant
- tool locking-unlocking liquid
- tool presence control

All these to allow using tool-holders like Capto, HSK, DIN69871. Our R&D department is at your disposal with his experience to customize your system at its best.



TFS 41304

Testa ad angolo di fresatura con mandrino ribaltato. Fresa Ø 200. Peso Kg 327,5.

Milling angle head with reverse spindle. Milling tool Ø 200. Weight Kg 327,5.



TFS 05303

Testa ad angolo di fresatura con fresa diam. 7 Peso Kg 8

Milling angle head with milling cutter diam. 7 weight Kg 8



TFS 23301

Testa ad angolo di foratura a tre mandrini peso kg 5,9

Drilling angle head with three spindles weight kg 5,9



TFS 39998

Testa ad angolo universale. Presa utensili ISO50, peso kg 580

Angle head with tool shank ISO50, weight kg 580



TAS 15505

Testa ad angolo di foratura e fresatura, attacco utensile CAPTO C4 automatico. Peso Kg 130.

Drilling and milling angle head, automatic tools changer CAPTO C4. Weight Kg 130.

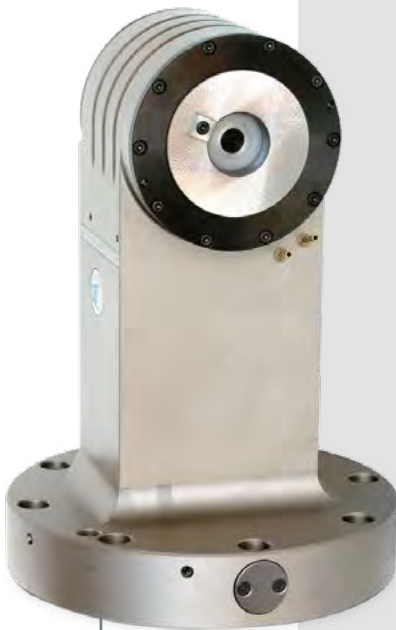
TFS 36699

Testa ad angolo bimandrino
registrabile, peso kg 29
*Adjustable twin angle head,
weight kg 29*



TFS 34004

Testa ad angolo di foratura
a 3 mandrini a 120°.
*Drilling angle head, n 3
spindles at 120°.
Weight Kg 18.*



TFS 09063

Testa ad angolo di alesatura con
utensile Ø 160 peso Kg 77
*Boring angle head with tools
Ø 160 weight Kg 77*

TFS 06003

Testa ad angolo di
fresatura con fresa Ø
110 peso Kg 210
*Milling angle head with
milling cutter Ø 110
weight Kg 210*



TFS 37503

Doppia testa ad angolo di foratura.
Twin drilling angle head.

TFS 08993

Testa ad angolo speciale con doppia
coppia di mandrini contrapposti
peso kg 18
*Angle head with two opposite twin
spindles weight kg 18*



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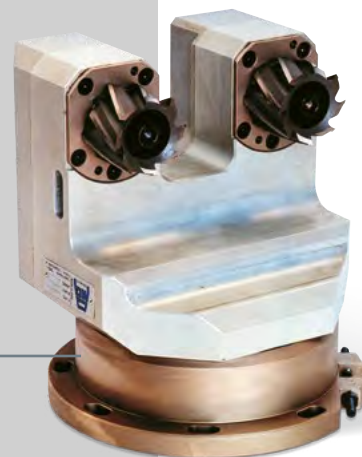




TFS 33206

Testa bimandrino di fresatura
per frese Ø 160, peso kg 63

*Twin milling head with
milling cutter Ø 160 weight
kg 63*



TFS 21701

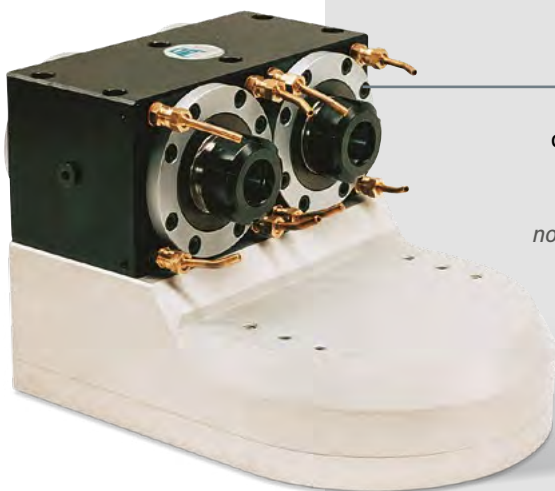
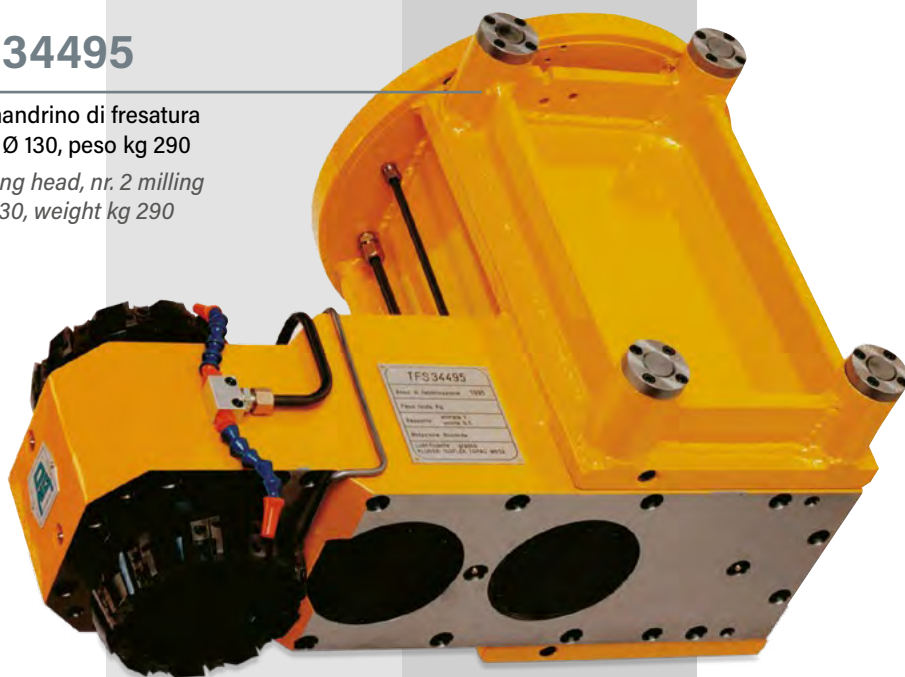
Testa di fresatura a due man-
drini paralleli, peso kg 14

*Milling angle head with two
parallel spindles, weight kg 14*

TFS 34495

Testa bimandrino di fresatura
n. 2 frese Ø 130, peso kg 290

*Twin milling head, nr. 2 milling
cutter Ø 130, weight kg 290*



TFS 16696

Doppia testa ad angolo
disassata rispetto all'asse
macchina, peso kg 24

*Twin spindle angle head
not in line with the machine
spindle, weight kg 24*

TFS 36994

Testa bimandrino di fresatura
n. 2 frese Ø 60, peso kg 15,5

*Twin milling head, nr. 2 mil-
ling cutter Ø 60, weight kg 15,5*





TFS 12101

Testa di fresatura con cono ISO30, peso kg 16

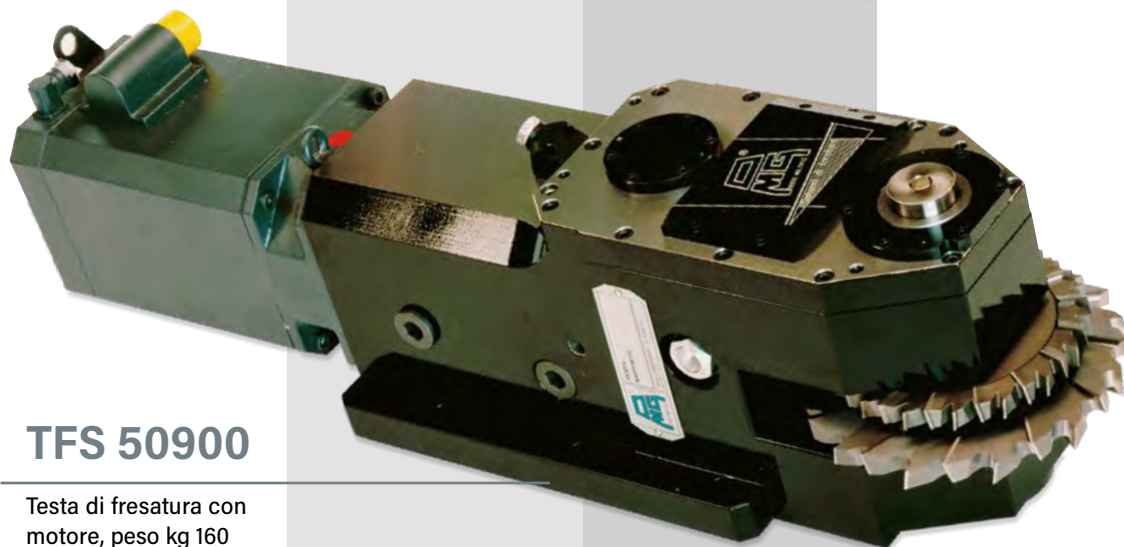
Milling angle head with ISO30, weight kg 16



TFS 13094

Testa ad angolo disassata rispetto all'asse macchina peso kg 17

Angle head not in line with the machine spindle weight kg 17



TFS 50900

Testa di fresatura con motore, peso kg 160

Milling angle head with brushless motor weight kg 160



TFS 09400

Testa di fresatura con n. 2 frese Ø 125 peso kg 20

Milling angle head with nr. 2 milling cutter Ø 125 weight kg 20



TFS 24196

Testa ad angolo bimanidri- no per fresatura su scatola del cambio, peso kg 70

Twin milling spindle angle head on gear box, weight kg 70

FH

BAH

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TFS 41504

Testa ad angolo mandrino di fresatura. Peso Kg 338.
*Twin milling angle head.
Weight Kg 338.*



TFS 35698

Testa ad angolo di fresatura con fresa Ø 100, peso Kg 34
*Milling angle head, with
milling cutter Ø 100, weight Kg 34*



TFS 28603

Testa di fresatura con n. 4 frese a disco Ø 125. Peso Kg 218.
*Milling head, nr. 4 milling disc
cutter Ø 125. Weight Kg 218.*



TFS 12005

Testa ad angolo disassata per fresature Ø 150. Peso Kg 48.
*Shift spindle angle head,
milling tools Ø 150.
Weight Kg 48.*

TFS 33303

Testa ad angolo disassata per foratura. Peso Kg 9,4.

*Angle head with shift drilling spindle.
Weight Kg 9,4.*



TFS 12095

Testa ad angolo di foratura, peso kg 5

*Drilling angle head
weight Kg 5*



TAS 30505

Testa ad angolo di foratura HSK100 entrata e uscita. Peso Kg 50.

*Drilling angle head, HSK
100 input-output.
Weight Kg 50*

TFS 13198

Testa ad angolo disassata per foratura, peso kg 5

*Angle head with
shift spindle, weight
kg 5*



TFS 33503

Testa ad angolo di lucidatura con doppia rotazione, sia corpo che utensile. Peso kg 6,5.

*Polish angle head with
duble rotation: body and
tools. Weight Kg 6,5.*



FH

BAH

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TFS 39997

Testa ad angolo speciale
bimandrino per foratura e
maschiatura peso kg 16

*Twin angle head for
drilling and tapping
weight kg 16*



TAS 13806

Testa bimandrino Capto C5
manuale, peso kg 33

*Twin angle head with Capto
C5 manual clamping tool
weight kg 33*



TAS 39806

Testa di foratura a due mandri-
ni con refrigerante attraverso
il centro utensile a 50 Bar,
peso kg 21

*Twin drilling angle head with
coolant through the centre
tool at 50 Bar, weight kg 21*



TAS 08606

Testa fresatura conica su
acciaio, peso kg 23

*Milling angle head with
conical tool, weight kg 23*



TFS 40601

Testa ad angolo bimandrino,
angolo tra i due mandrini 176°,
peso Kg 13

*Twin angle head, angle 176°
between spindles, weight Kg 13*



TFS 20298

Testa bimandrino di fresatura n°2 frese Ø 120 peso kg 25

Twin milling angle head, nr.2 milling cutter Ø 120 weight kg 25



TA 05500

Testa ad angolo di fresatura con fresa Ø125 peso kg 17

Milling angle head with milling cutter Ø 125, weight kg 17

TAS 39706

Testa di fresatura per supporto motore frese Ø160/180 peso kg 31

Milling head for engine's bracket milling cutter Ø160/180 weight kg 31



TA 34397

Testa ad angolo di fresatura con cono ISO20, peso kg 0,9

Milling angle head with hank ISO20, weight kg 0,9

TAS 20706

Testa per fresatura interna pinza freno, peso Kg 23

Angle milling head for brake housing, weight Kg 23



TA 17292

Testa ad angolo di fresatura n. 2 frese per legno peso kg 3

Twin angle head with nr. 2 milling cutter for wood, weight kg 3

TFS 39999

Testa ad angolo speciale fresatura su plastica peso kg 4

Milling angle head for plastic weight kg 4



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TAS 37806

Testa ad Angolo di fresatura
componente aeronautico,
materiale Inconel. Peso Kg 40

*Milling Angle Head for ae-
ronautic piece, Inconel alloy
material. Weight Kg 40*

TFS 23910

Testa ad Angolo bimandrino,
fresatura di componente in
ghisa. Peso Kg 50

*Twin Angle Head, milling
cast iron pieces.
Weight Kg 50*



TFS 31110

Testa ad Angolo di foratu-
ra con mandrino HSK50
ribaltato. Peso Kg 31

*Drilling Angle Head with
HSK50 reverse spindle.
Weight Kg 31*



TAS 10708

Testa ad Angolo lunghezza
mm 1.000, fresatura di cave
su acciaio. Peso Kg 216

*Angle Head overall length
mm 1.000, milling key-way on
steel. Weight Kg 216*

TAS 13910

Testa ad Angolo di foratura
con mandrino ER25.
Peso Kg 31

*Drilling Angle Head with
ER25 spindle.
Weight Kg 31*



TAS 08411

Testa ad Angolo con tre mandrini di foratura con avanzamento idraulico. Peso Kg 17,5

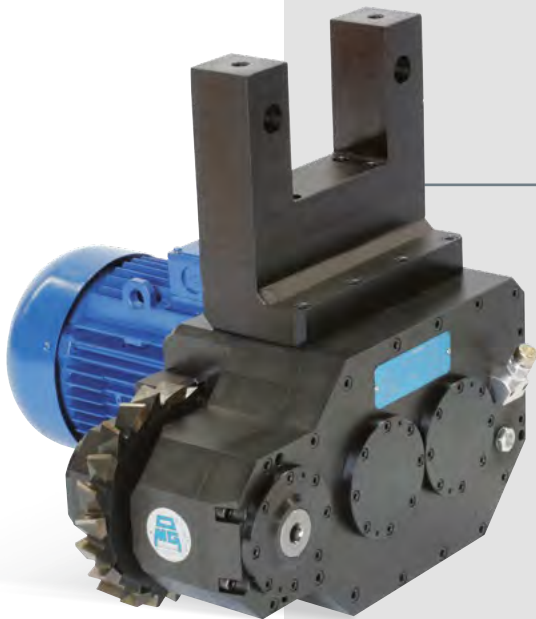
Drilling Angle Head with three spindles, hydraulic spindles feed. Weight Kg 17,5



TFS 05609

Testa ad Angolo di fresatura per tornio verticale. Peso Kg 286

Milling Angle Head for vertical lathe. Weight Kg 286



TAS 19610

Testa ad Angolo di fresatura per macchina transfer. Peso Kg 35

Milling Angle Head for transfer machine. Weight Kg 35



TFS 26908

Testa ad Angolo bimandrino di foratura per macchina transfer. Peso Kg 9,5

Twin drilling Angle Head for transfer machine. Weight Kg 9,5



TAS 28010

Testa ad Angolo con tre assi a regolazione manuale. Peso Kg 590

Angle Head with three manual movement axis. Weight Kg 590

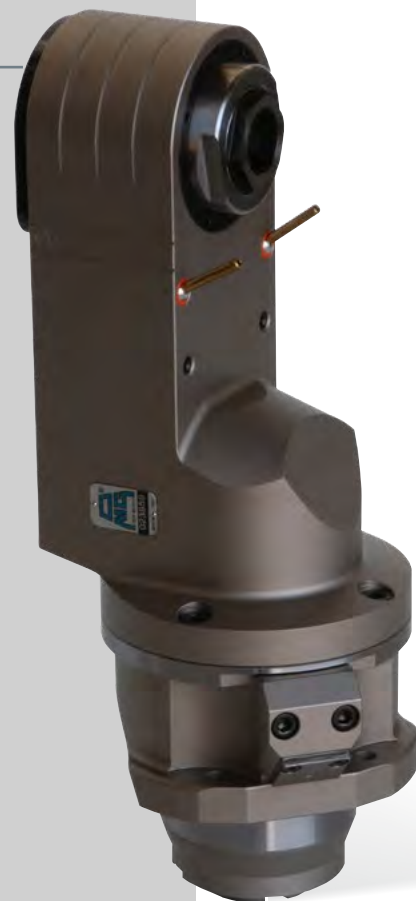




TAS 26810

Testa ad Angolo TAO20, utilizzata in fresatura su torretta a revolver HT250. Peso Kg 14

Milling Angle Head TA 20, assembled on HT250 turret head. Weight Kg 14



TAS 19010

Testa ad Angolo di foratura per macchina transfer. Max RPM 20.000. Peso Kg 5

Drilling Angle Head for transfer machine. Max RPM 20.000. Weight Kg 5



TFS 06906

Testa ad Angolo di foratura scatola sterzo. Peso Kg 10

Drilling Angle Head for steering body. Weight Kg 10



TAS 09407

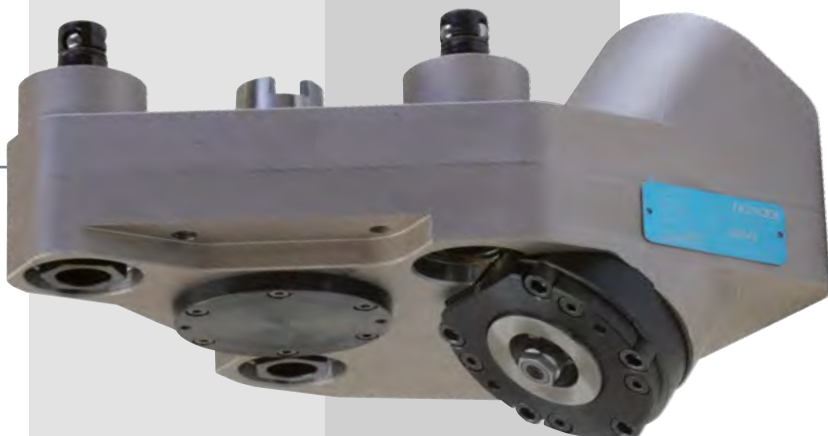
Testa ad Angolo per fresatura canna di fucile. Peso Kg 6,5

Milling Angle Head for rifle barrel. Weight Kg 6,5

TAS 16308

Testa ad Angolo di foratura con mandrino HSK32 a cambio automatico utensile. Peso Kg 13,5

Drilling Angle Head with spindle HSK32 with automatic tool changer. Weight Kg 13,5



TAS 24508

Testa ad Angolo di fresatura
pinza freno. Peso Kg 29
*Milling Angle Head for brake
truck body. Weight Kg 29*



TAS 07309

Testa ad Angolo di fresatura,
basamento motore 12 cilindri. Peso Kg 60
*Milling Angle Head, 12 cylinder
engine block. Weight Kg 60*

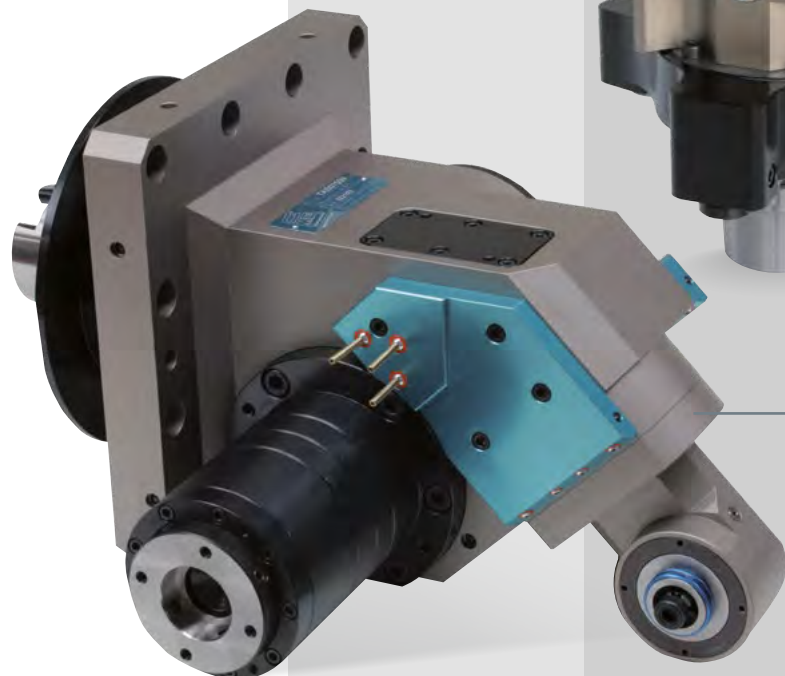


TAS 24010

Testa ad Angolo di foratura componente aeronautico in alluminio.
Peso Kg 13,5
*Drilling Angle Head for aluminium
aeronautic component. Weight
Kg 13,5*

TAS 28606

Testa ad Angolo di foratura componente aeronautico con mandrino HSK50, materiale Inconel. Peso Kg 27
Drilling Angle Head with HSK50 spindle for aeronautic piece, Inconel alloy material. Weight Kg 27



TAS 07509

Testa ad Angolo bimandrino di alesatura, motore 12 cilindri.
Peso Kg 63
Twin spindle boring Angle Head, 12 cylinder engine block. Weight Kg 63

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