MD MG TESTE MULTIPLE

Made in Italy

FH *Facing Heads* · **BAH** *Big Angle Heads* · **TA.CP** *Angle Heads* · **TA** *Angle Heads* · **MOx** *Spindle Speeders* · **HT** *Turret Heads* · **VH** *Variable axis heads* · **TSI/TSX** *Twin spindle milling heads* · **T** *Adjustable joint multi spindle heads* · **MT-TC-TC3** *Fixed multi spindle heads*



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.

PANORAMICA PRODOTTI
PRODUCT OWERVIEW

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 ±90°.

±90° adjustable spindle.

TAF

Pagina ▪ *Page:* 4-95

Mandrino fisso, angolo su richiesta del cliente.

Fixed spindle with custom angle.



PANORAMICA PRODOTTI
PRODUCT OWERVIEW

Pagina ▪ *Page:* 4-24



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.

Ligth 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

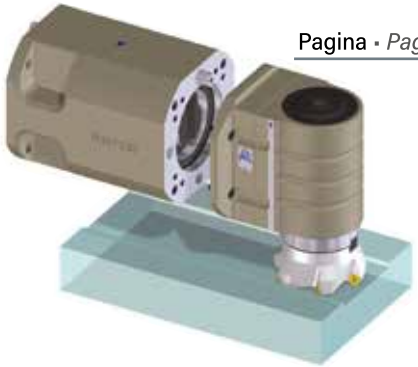
Pagina ▪ *Page:* 4-66

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**
- **COPPIA** *TORQUE*

SISTEMA MODULARE PER APPLICAZIONI FLESSIBILI

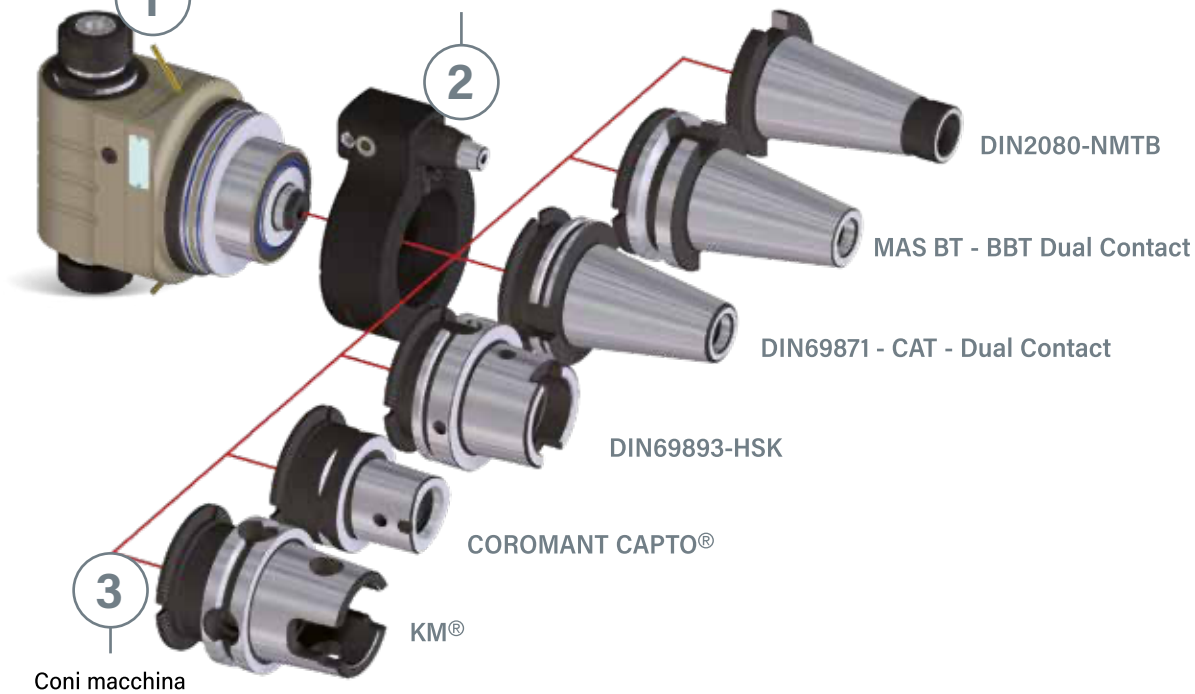
MODULAR SYSTEM FOR FLEXIBLE APPLICATION

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

MODULARITÀ ANTIROTANTI

esistono fondamentalmente tre dimensioni unificate di interasse tra il centro cono ed il centro perno antirotante: 65 mm per i cono grandezza 40, 80 mm per i coni 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

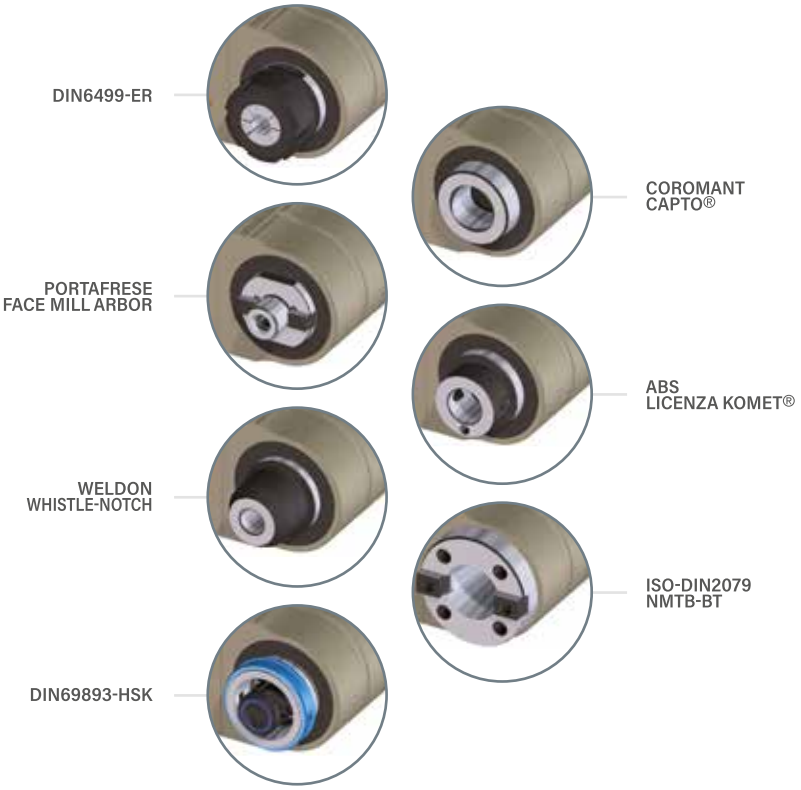
All the different machine tapers are available, and can be replaced with an exclusive precision coupling system generating a rigid system equal to integral tapers, but with additional interchangeability quality.

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.

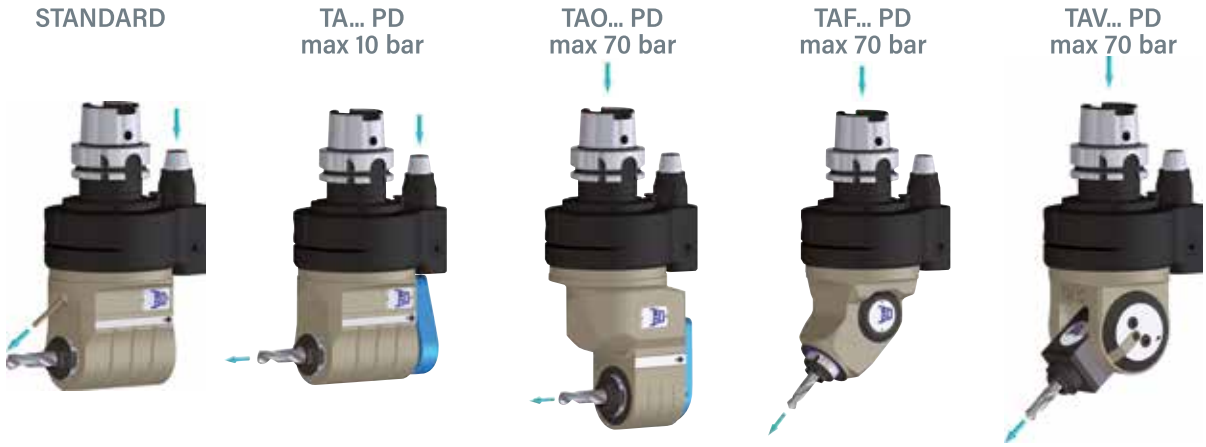
PRESE UTENSILI - TIPI MANDRINO

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'antirotante e termina sull'ugello vicino all'utensile, senza alcun costo aggiuntivo.

REFRIGERANTEDA 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.

STANDARD



TriBlock®



QuadBlock®

Studiato e realizzato su specifica richiesta.

Customized design according to your application.

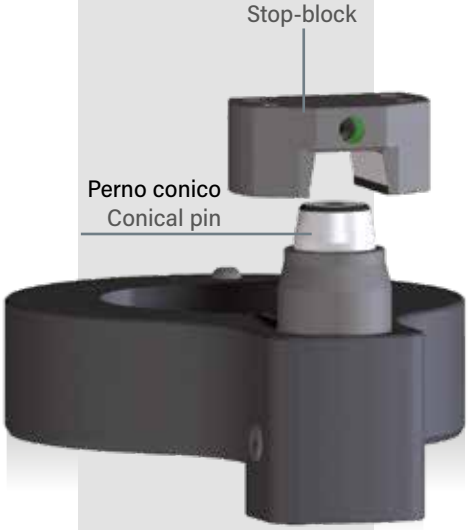


HIGHER PERFORMANCES

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.*



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





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 gearings: 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 niploy, trattamento anticorrosione, che garantisce alta protezione contro la ruggine, lubrorefrigeranti 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 niploy 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*



TAR02.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

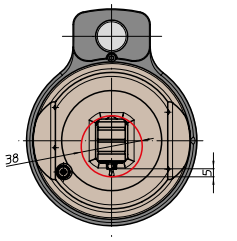
40 — 6,6 KG
50 — 9 KG

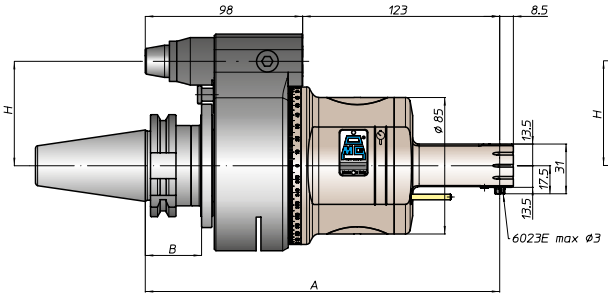
ROTAZIONE *ROTATION*

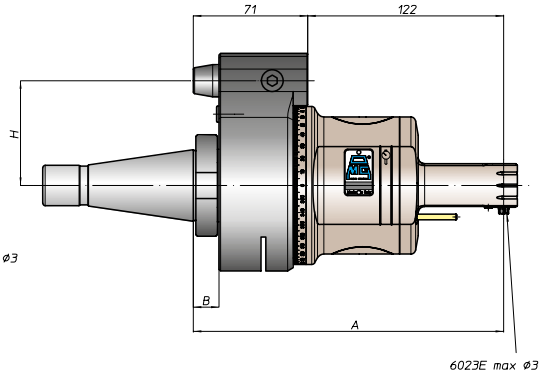
IN — INPUT
OUT — OUTPUT

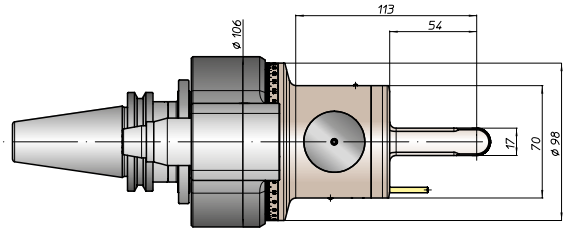
CARATTERISTICHE *FEATURES*

Ø2	M2	40 N	1-1.333	8000	2,5









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	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	65	80		65		80	65	80		65	80	65	80
H OPTIONAL			110			110		110		110				110		110			110		110

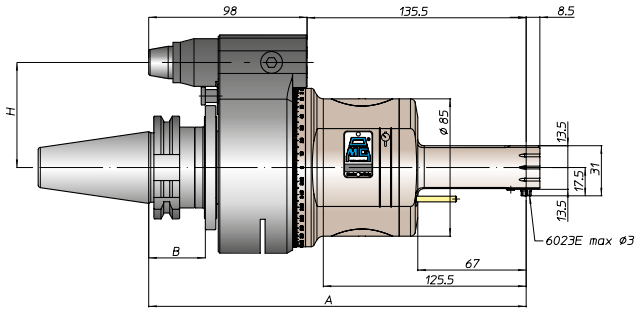
For DIN69871, ANSIB5.50 and BT, dual contact as option

TAR02.P-L67

ROTAZIONE
ROTATION



INPUT OUTPUT



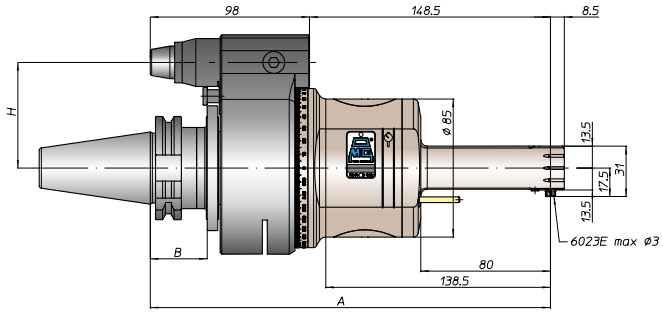
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SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	233,5				233,5		233,5	241,5	242,5			237,5			233,5			203,5	206,5	203,5	206,5

TAR02.P-L80

ROTAZIONE
ROTATION



INPUT OUTPUT



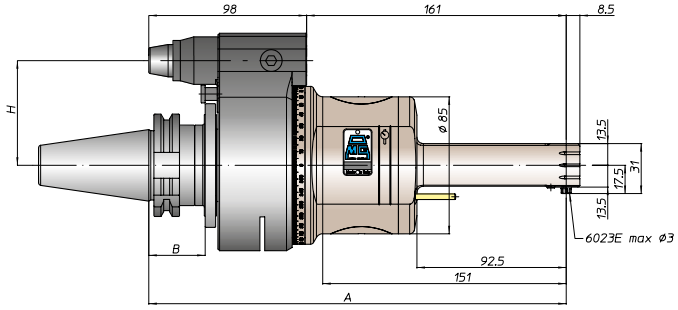
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SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	246,5				246,5		246,5	254,5	255,5			250,5			246,5			276,5	273,5	276,5	273,5

TAR02.P-L92

ROTAZIONE
ROTATION



INPUT OUTPUT



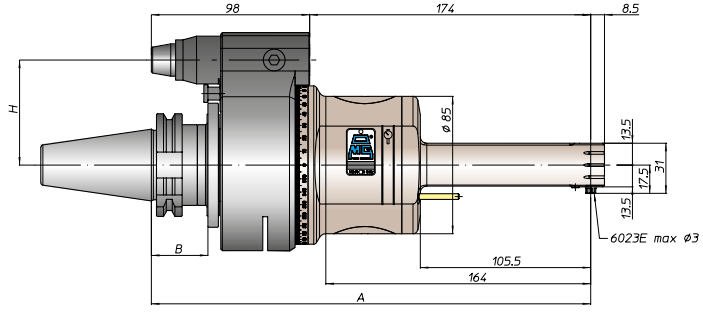
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SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	259				259		259	267	268			263			259			289	286	289	286

TAR02.P-L105

ROTAZIONE
ROTATION



INPUT OUTPUT



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

TAR03.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

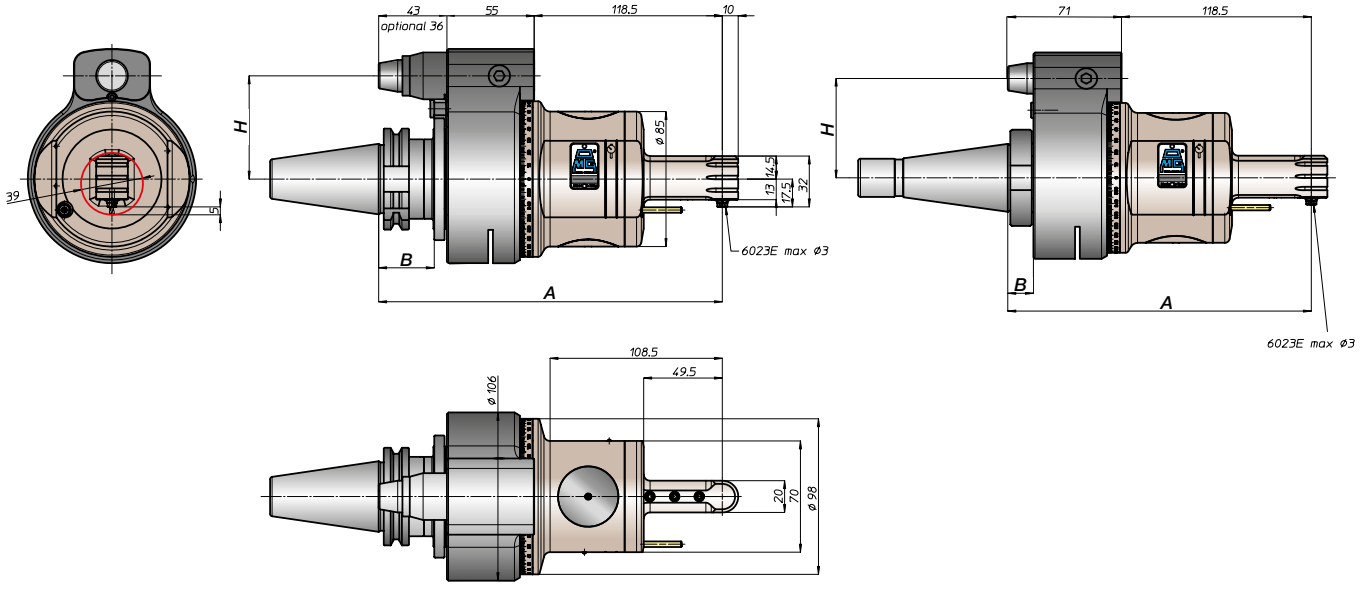
40 — 6,7 KG
50 — 9,1 KG

ROTAZIONE *ROTATION*

IN — INPUT
OUT — OUTPUT

CARATTERISTICHE *FEATURES*

Ø3	M3	70 N	1-1.2308	8000	3,5
				RPM	Nm



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	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

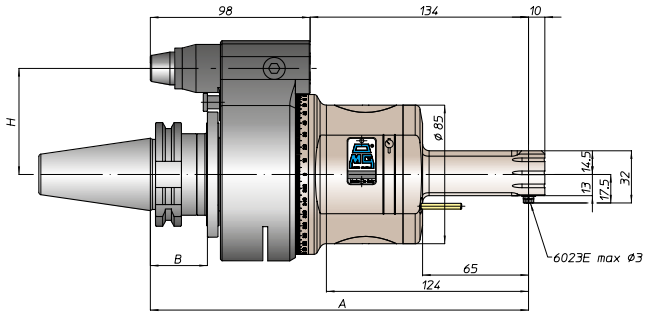
For DIN69871, ANSIB5.50 and BT, dual contact as option

TAR03.P-L65

ROTAZIONE
ROTATION



INPUT OUTPUT



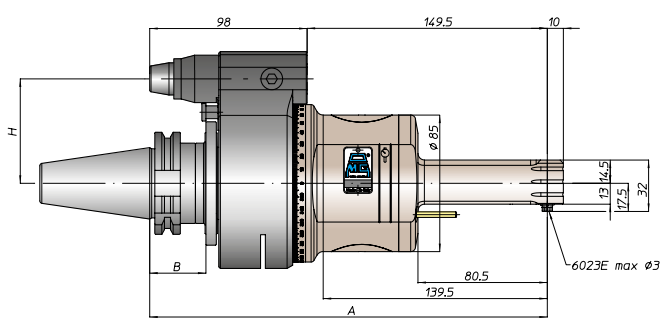
CONO *SHANK*	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	232				232		232	240	241			236			232			202	205	202	205

TAR03.P-L80

ROTAZIONE
ROTATION



INPUT OUTPUT



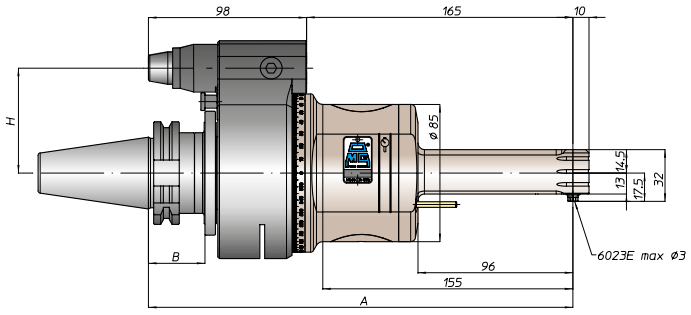
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SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	247				247		247	255	256			251			247			217	220	217	220

TAR03.P-L96

ROTAZIONE
ROTATION



INPUT OUTPUT



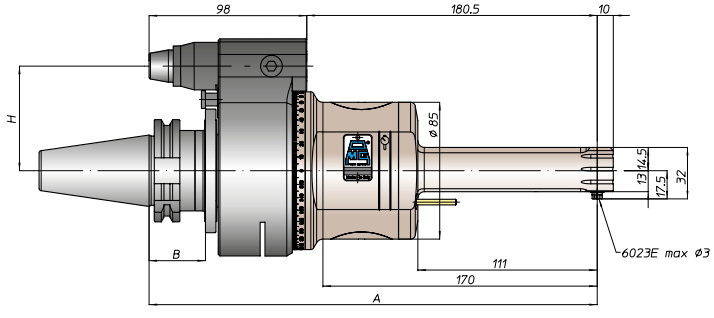
CONO *SHANK*	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	263				293		293	271	272			267			263			233	236	233	236

TAR03.P-L111

ROTAZIONE
ROTATION



INPUT OUTPUT



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

TAR04.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

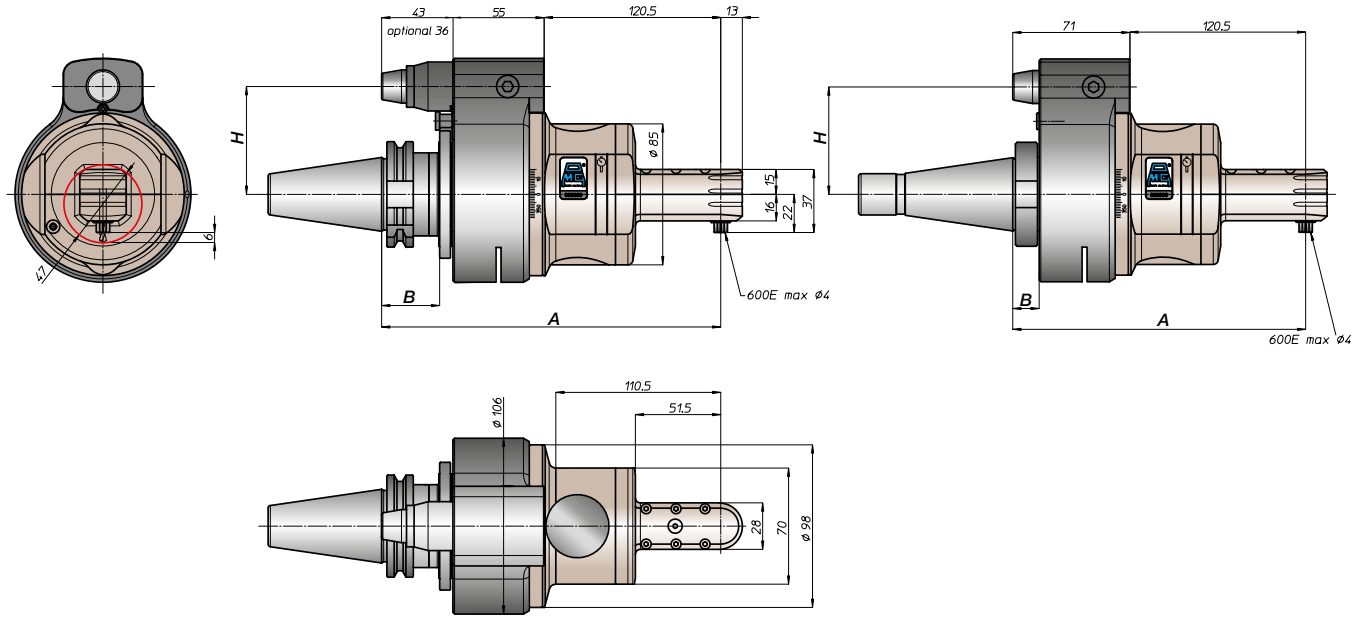
40 — 7 KG
50 — 9,4 KG

ROTAZIONE *ROTATION*

IN — INPUT
OUT — OUTPUT

CARATTERISTICHE *FEATURES*

Ø4	M3	120 N	1-1	8000	6



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	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

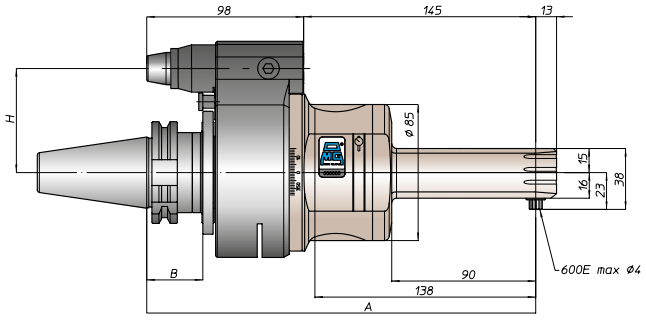
For DIN69871, ANSIB5.50 and BT, dual contact as option

TAR04.P-L90

ROTAZIONE
ROTATION



INPUT OUTPUT



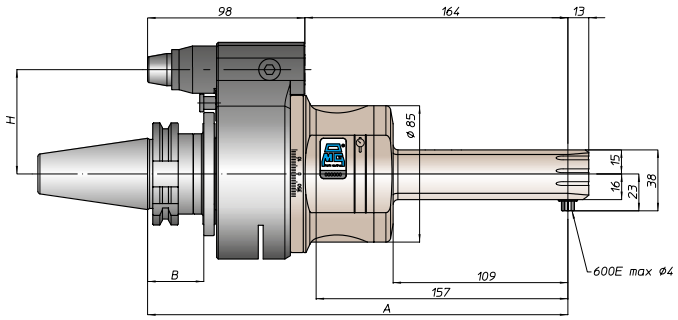
CONO *SHANK*	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	257				257		257	265	266			261			257			227	230	227	230

TAR04.P-L109

ROTAZIONE
ROTATION



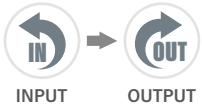
INPUT OUTPUT



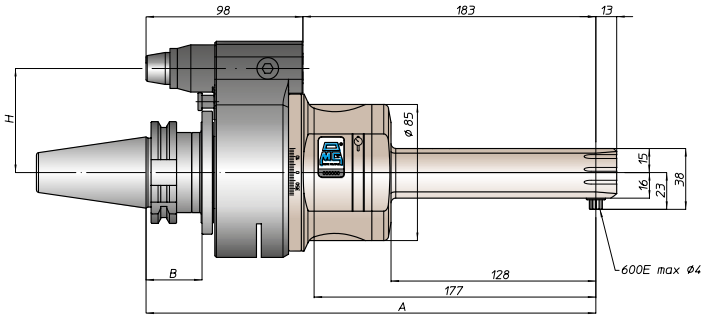
CONO *SHANK*	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	276				276		276	284	285			280			276			246	249	246	249

TAR04.P-L128

ROTAZIONE
ROTATION



INPUT OUTPUT



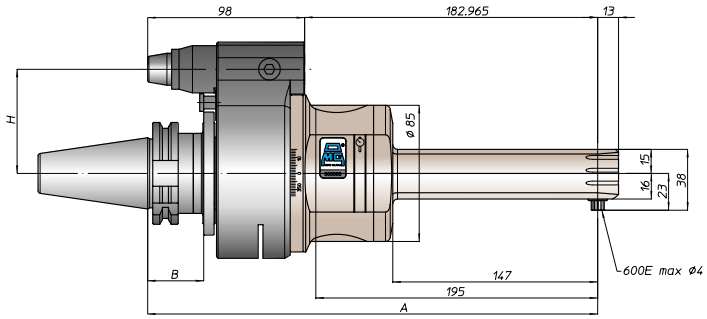
CONO *SHANK*	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	295				295		295	303	304			299			295			265	268	265	268

TAR04.P-L147

ROTAZIONE
ROTATION



INPUT OUTPUT



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

TAR06.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

40 — 7,2 KG
50 — 9,6 KG

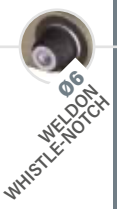
ROTAZIONE *ROTATION*

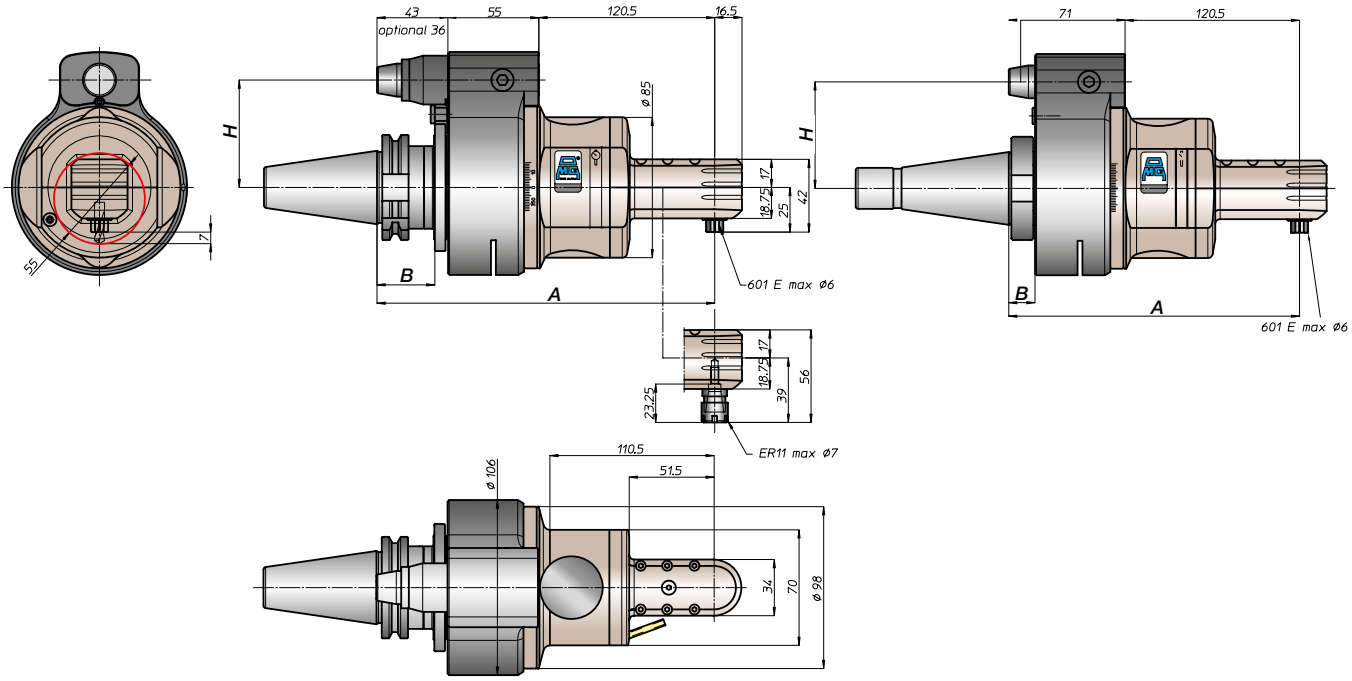
INPUT — OUT
OUTPUT — OUT

CARATTERISTICHE *FEATURES*

Ø6	M5	150 N	1-1	8000	Nm
				RPM	
Ø6	M5	150 N	1-1	8000	8

MANDRINI DISPONIBILI *AVAILABLE SPINDLES*





	DIN69871				ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
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	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

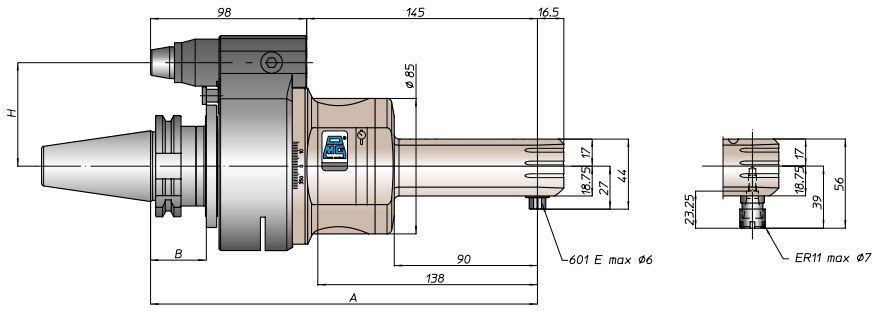
For DIN69871, ANSIB5.50 and BT, dual contact as option

TAR06.P-L90

ROTAZIONE
ROTATION



INPUT OUTPUT



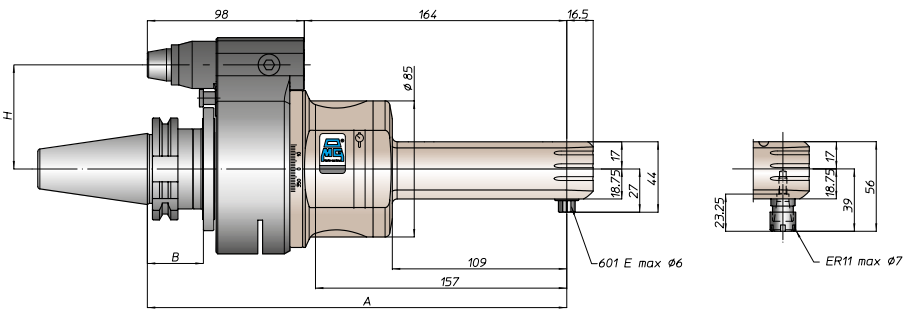
CONO *SHANK*	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	257				257		257	265	266			261			257			227	230	227	230

TAR06.P-L109

ROTAZIONE
ROTATION



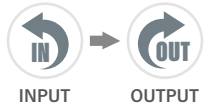
INPUT OUTPUT



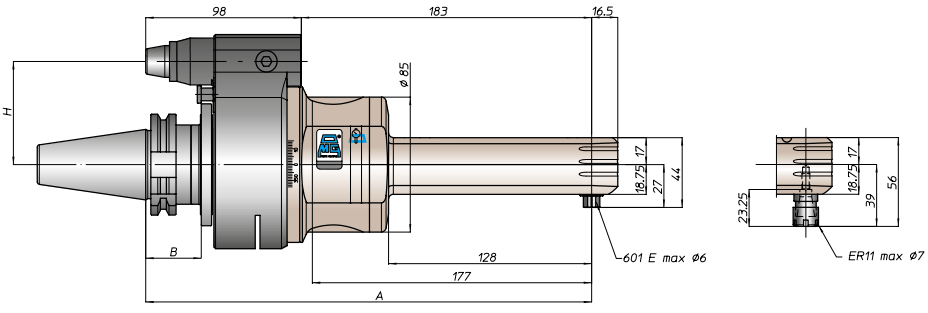
CONO *SHANK*	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	276				276		276	284	285			280			276			246	249	246	249

TAR06.P-L128

ROTAZIONE
ROTATION



INPUT OUTPUT



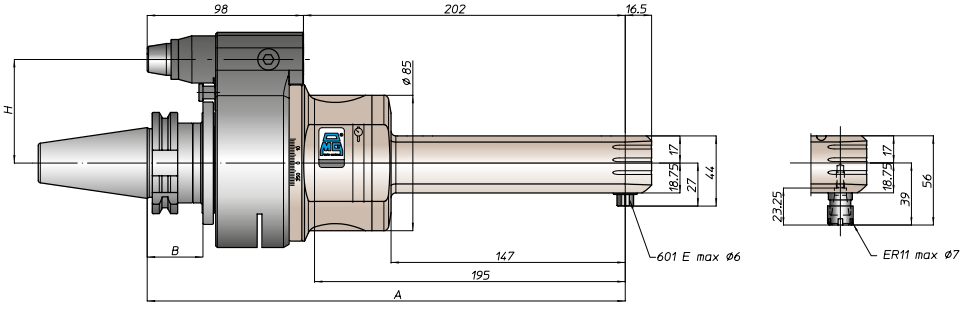
CONO *SHANK*	DIN69871				CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	295				295		295	303	304			299			295			265	268	265	268

TAR06.P-L147

ROTAZIONE
ROTATION



INPUT OUTPUT



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

TAR10.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

40 — 7 KG
50 — 9 KG

ROTAZIONE *ROTATION*

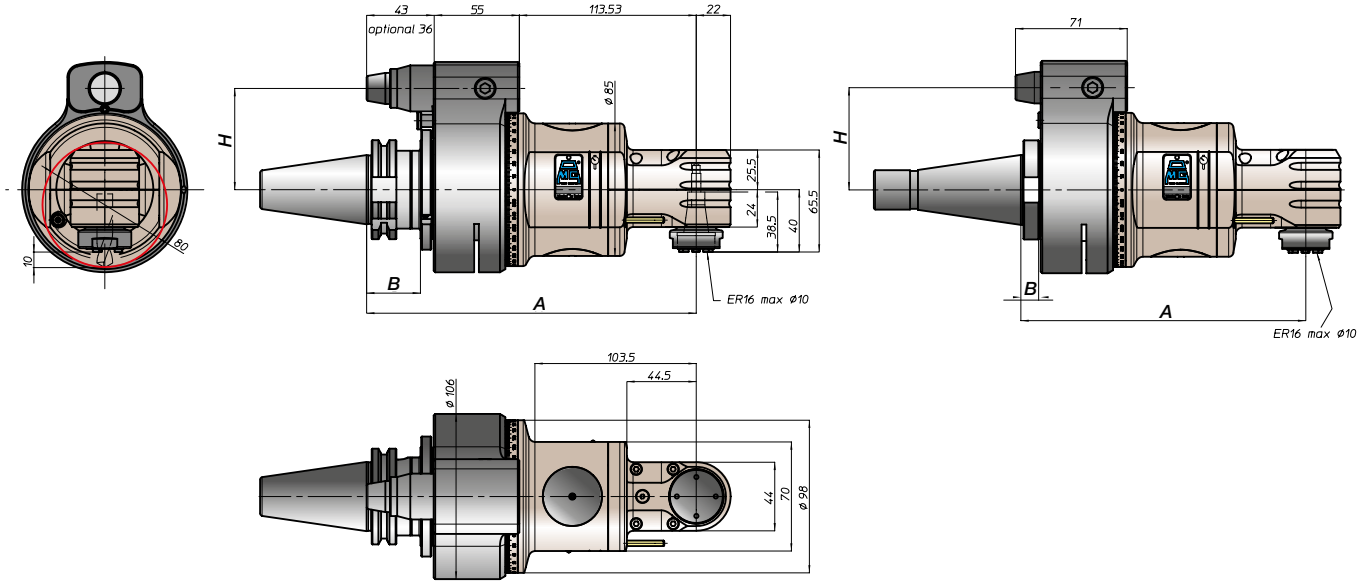
IN — INPUT
OUT — OUTPUT

CARATTERISTICHE *FEATURES*

Ø10	M8	430 N	1-1	6000	11
				RPM	Nm

MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

Ø12 WELDON WHISTLE-NOTCH



CONO *SHANK*	DIN69871			ANSIB5.50		CAT		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	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		

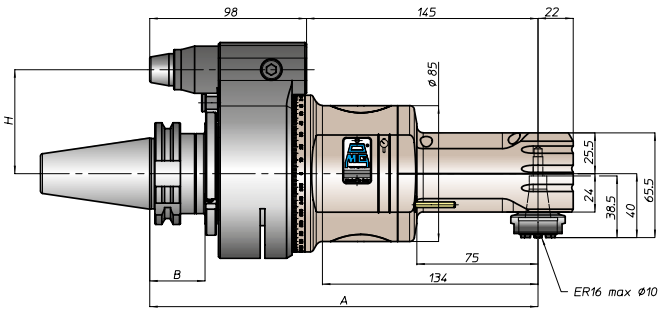
For DIN69871, ANSIB5.50 and BT, dual contact as option

TAR10.P-L75

ROTAZIONE
ROTATION



INPUT OUTPUT



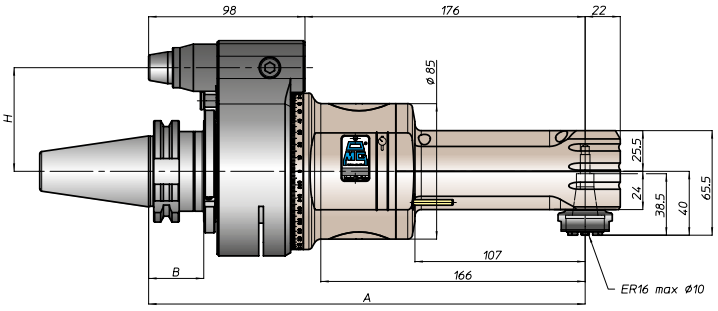
CONO *SHANK*	DIN69871			CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	242,78			242,78		242,78	250,78	251,78			246,78			242,78			212,78	215,78	212,78	215,78

TAR10.P-L107

ROTAZIONE
ROTATION



INPUT OUTPUT



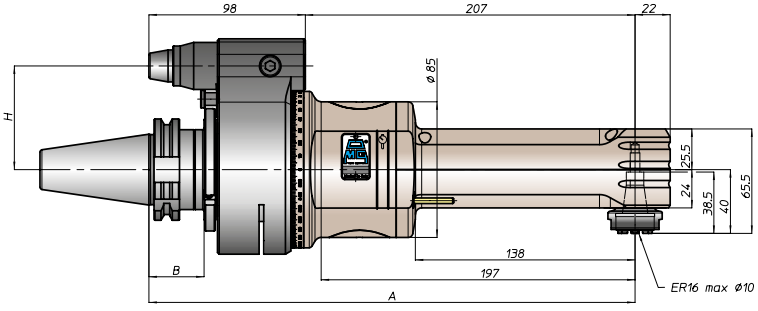
CONO *SHANK*	DIN69871			CAT ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
SIZE	40	45	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	40	50
A	274,06			274,06		274,06	282,06	283,06			278,06			274,06			244,06	247,06	244,06	247,06

TAR10.P-L138

ROTAZIONE
ROTATION



INPUT OUTPUT



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

TAR GALLERY







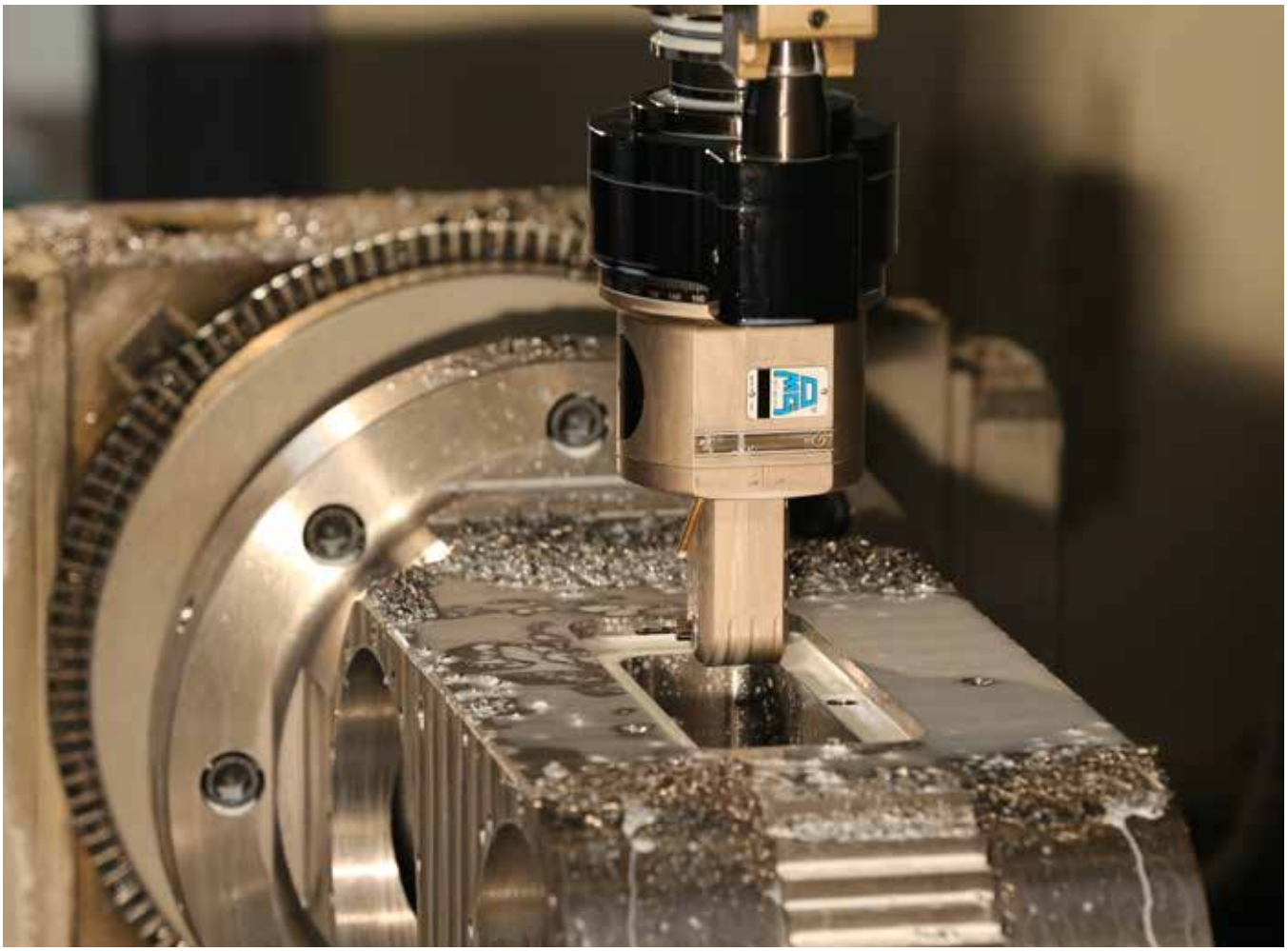












TA07.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

40 — 5,5 KG
50 — 7,5 KG

ROTAZIONE *ROTATION*

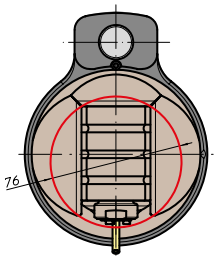
IN — INPUT
OUT — OUTPUT

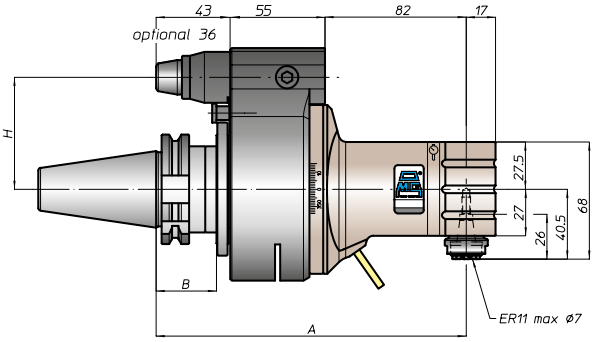
CARATTERISTICHE *FEATURES*

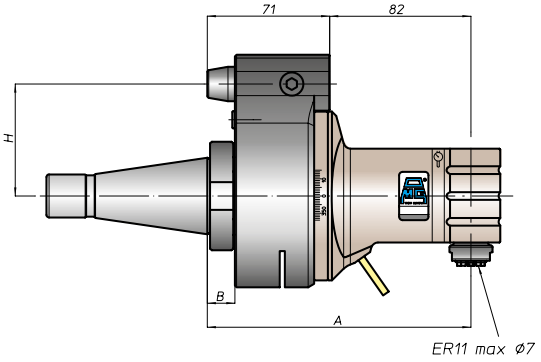
Ø7	M6	180 N	1-1	10000 RPM	11 Nm

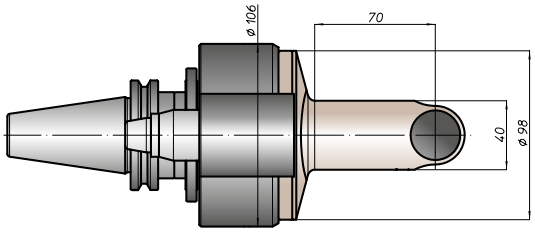
MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

Ø8-Ø10 WELDON WHISTLE-NOTCH









	DIN69871				ANSIB5.50		CAT BT		DIN69893			ISO26623			KM			DIN2080		NMTB ANSIB5.18	
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	65	80
H OPTIONAL			110			110		110		110				110			110		110		110

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

TA07.PL

TESTA AD ANGOLO • *ANGLE HEAD*

PESO *WEIGHT*

40 — 6,5 KG
50 — 8,8 KG

ROTAZIONE *ROTATION*

IN → OUT

INPUT — OUTPUT

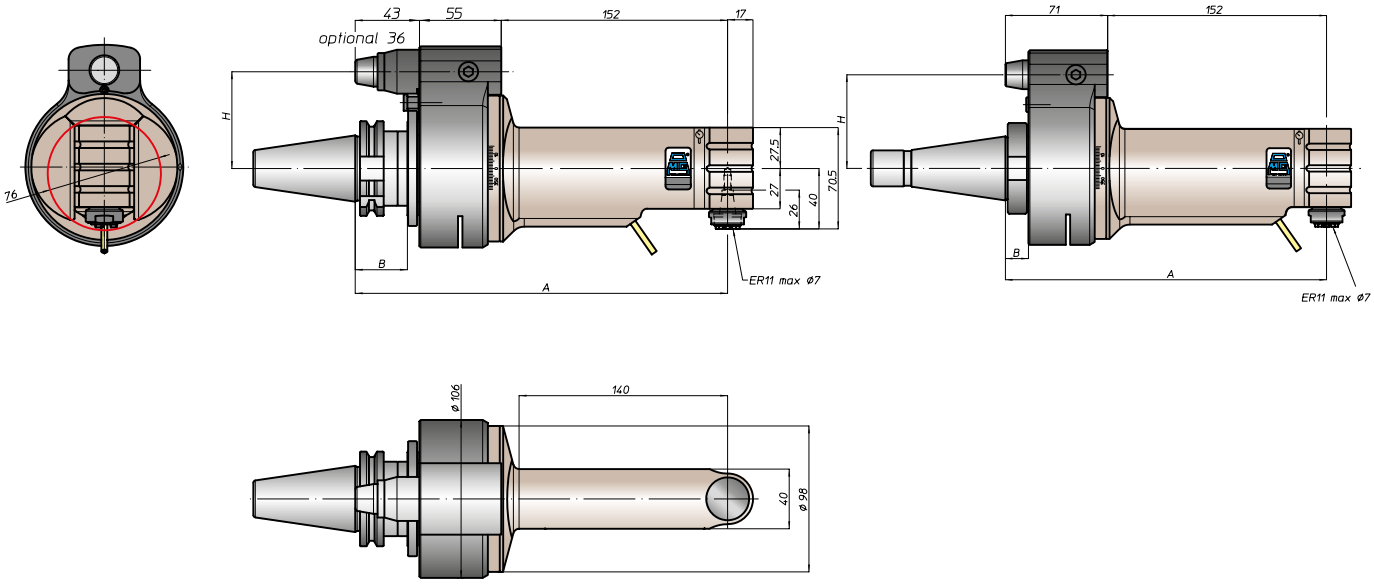
CARATTERISTICHE *FEATURES*

Ø7	M6	180 N	1-1	10000 RPM	11 Nm

MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

ØB-Ø10 WELDON WHISTLE-NOTCH





CONO *SHANK*		CAT 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	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
H OPTIONAL	110		110		110		110				110		110			110		110

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

TA10.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

40 — 5,8 KG
50 — 8 KG

ROTAZIONE *ROTATION*

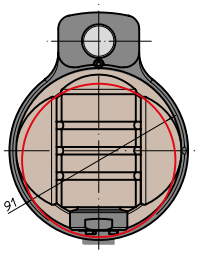
IN — INPUT
OUT — OUTPUT

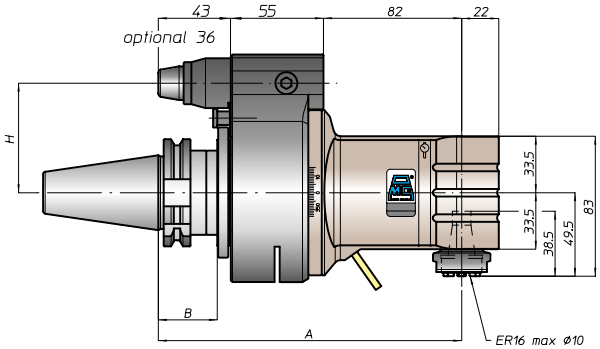
CARATTERISTICHE *FEATURES*

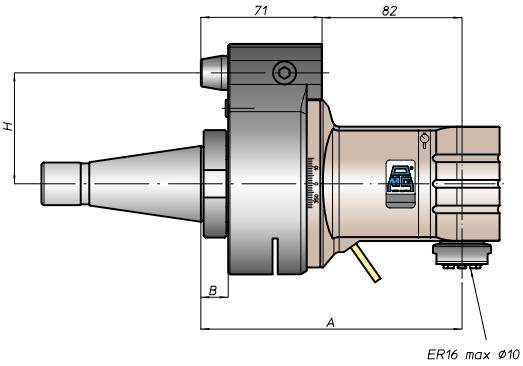
Ø10	M8	400 N	1-1	10000	14
				RPM	Nm

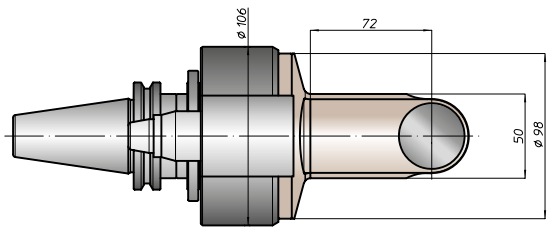
MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

- ER20 DIN6499-ER
- Ø16 PORTAFRESE *FACE MILL ARBOR*
- Ø8-Ø10 Ø12 WELDON WHISTLE-NOTCH









		DIN69871				ANSIB5.50		BT		HSK DIN69893			CAPTO ISO26623			KM			DIN2080		NMTB ANSIB5.18	
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	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*

40 — 7,5 KG
50 — 9,8 KG

ROTAZIONE *ROTATION*

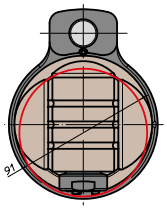
IN — INPUT
OUT — OUTPUT

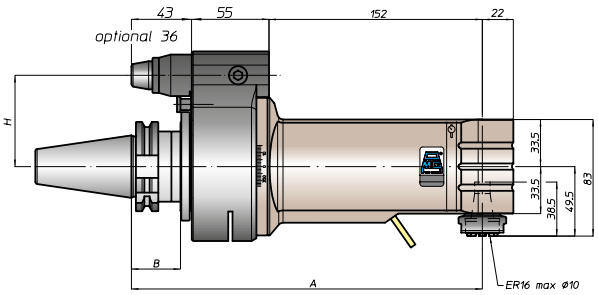
CARATTERISTICHE *FEATURES*

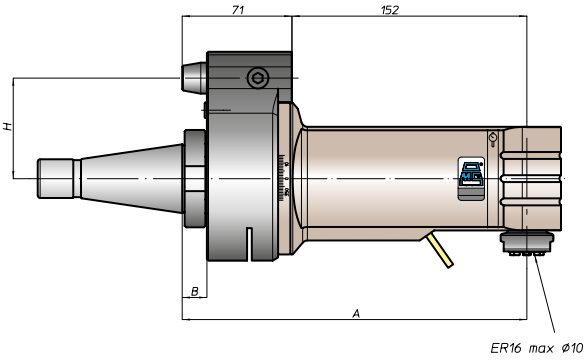
Ø10	M8	400 N	1-1	10000 RPM	14 Nm

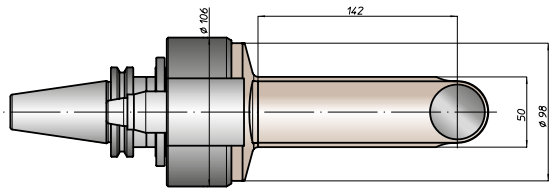
MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

- ER20 DIN6499-ER
- Ø16 PORTAFRESE / FACE MILL ARBOR
- Ø8-Ø10-Ø12 WELDON WHISTLE-NOTCH









CONO *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	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
H OPTIONAL		110			110		110		110				110		110			110		110

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

TA13.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

40 — 6,5 KG
50 — 9 KG

ROTAZIONE *ROTATION*

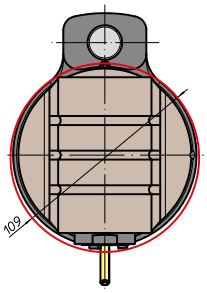
IN — INPUT
OUT — OUTPUT

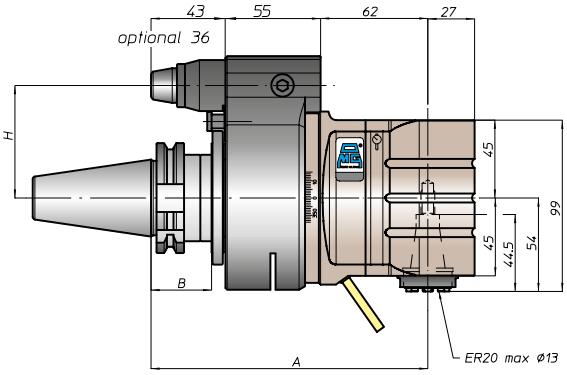
CARATTERISTICHE *FEATURES*

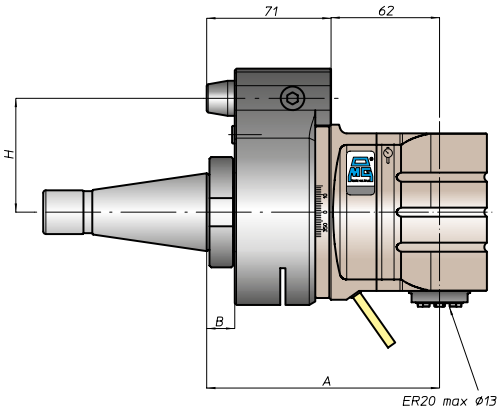
Ø13	M10	810 N	1-1	8000	38
				RPM	Nm

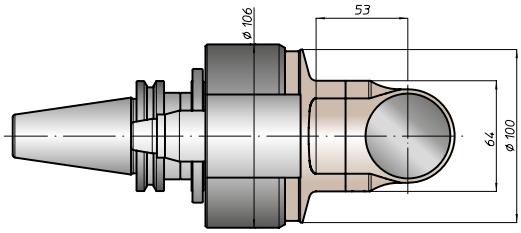
MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

- ER25 DIN6499-ER
- Ø16-Ø22 PORTAFRESE FACE MILL ARBOR
- Ø16 WELDON WHISTLE NOTCH
- ABS25 LICENZA KOMET® KOMET LICENCE®









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	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*

40 — 9,5 KG
50 — 12 KG

ROTAZIONE *ROTATION*

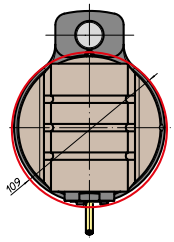
IN — INPUT
OUT — OUTPUT

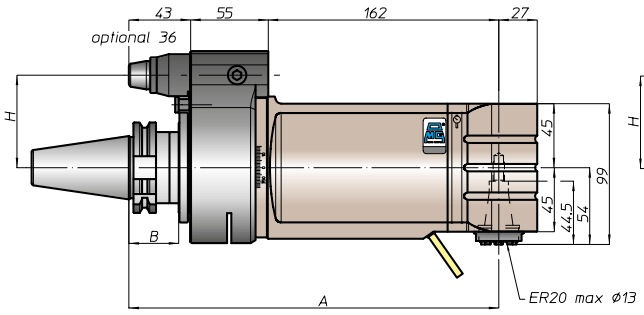
CARATTERISTICHE *FEATURES*

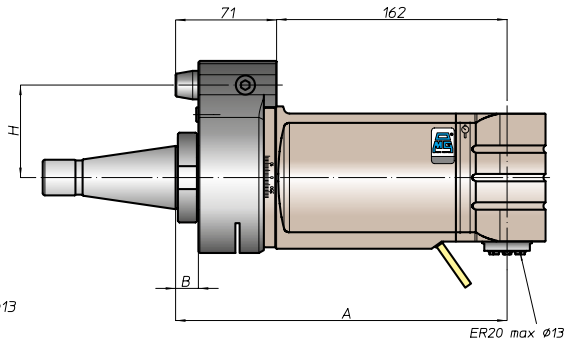
Ø13	M10	810 N	1-1	8000	38

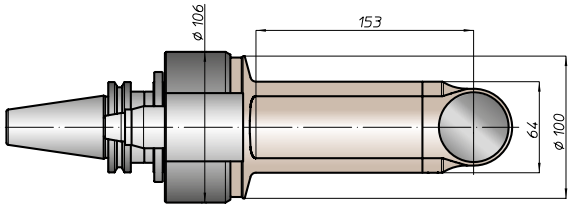
MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

- ER25 DIN6499-ER
- Ø16-Ø22 PORTAFRESE FACE MILL ARBOR
- Ø16 WELDON WHISTLE-NOTCH
- ABS25 LICENZA KOMET® KOMET LICENCE®









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	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
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*



PESO *WEIGHT*

40 — 7,7 KG
50 — 11,7 KG

ROTAZIONE *ROTATION*

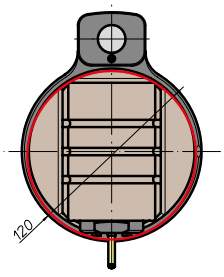
IN — INPUT
OUT — OUTPUT

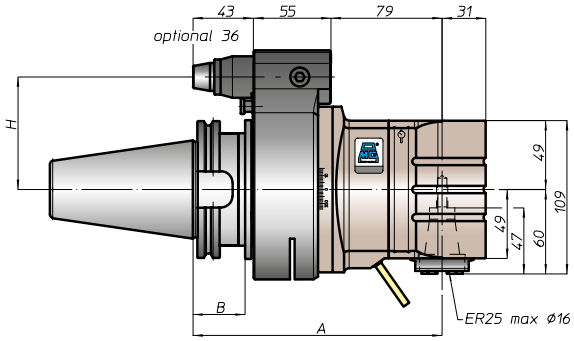
CARATTERISTICHE *FEATURES*

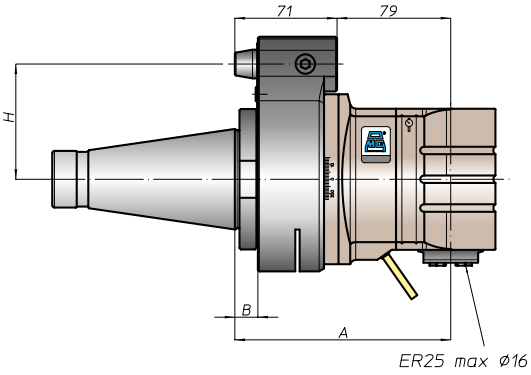
Ø16	M12	1040 N	1-1	5000 RPM	55 Nm

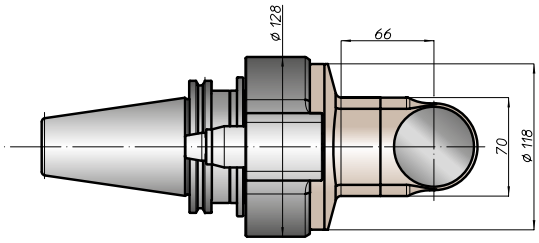
MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

- ER32 DIN6499-ER
- Ø16-Ø22-Ø27-Ø32 PORTAFRESE FACE MILL ARBOR
- Ø20 WELDON WHISTLE-NOTCH
- HSK32 DIN69893-HSK
- C3 COROMANT CAPTO®
- ABS32 LICENZA KOMET® KOMET LICENCE®









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	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*



PESO
WEIGHT

15,5 KG

ROTAZIONE
ROTATION

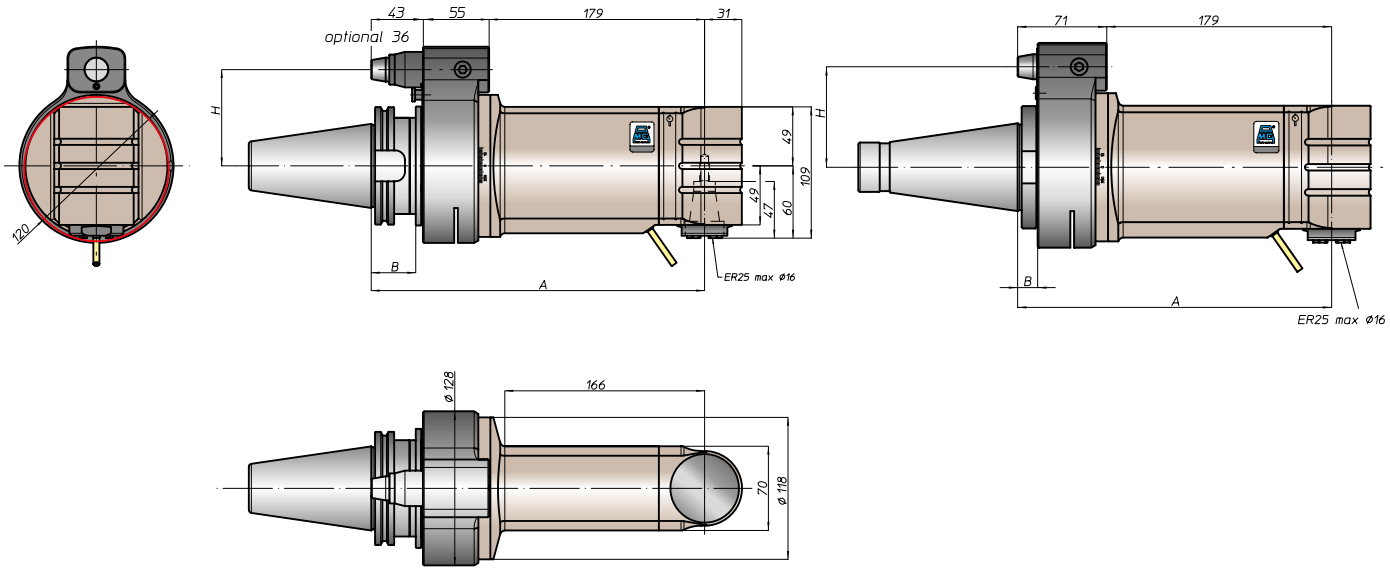
INPUT OUTPUT

CARATTERISTICHE
FEATURES

Ø16	M12	1040 N	1-1	5000	55

MANDRINI DISPONIBILI
AVAILABLE SPINDLES

- ER32 DIN6499-ER
- Ø16-Ø22-Ø27-Ø32 PORTAFRESE / FACE MILL ARBOR
- Ø20 WELDON WHISTLE-NOTCH
- HSK32 DIN69893-HSK
- C3 COROMANT CAPTO®
- ABS32 LICENZA KOMET® / KOMET LICENCE®



CONO *SHANK*	DIN69871		CAT ANSIB5.50	BT	HSK DIN69893		CAPTO ISO26623		KM		DIN2080	NMTB 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*



PESO *WEIGHT*

14,5 KG

ROTAZIONE *ROTATION*

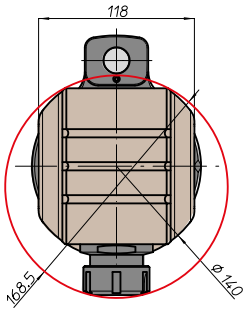
INPUT OUTPUT

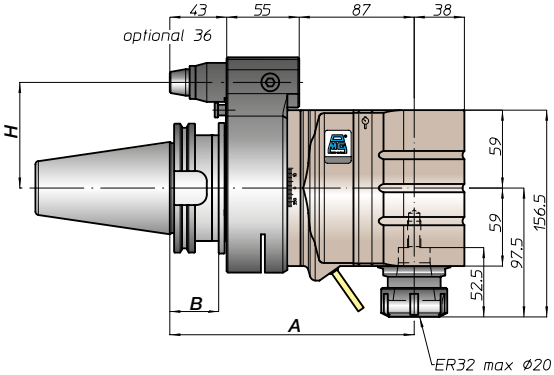
CARATTERISTICHE *FEATURES*

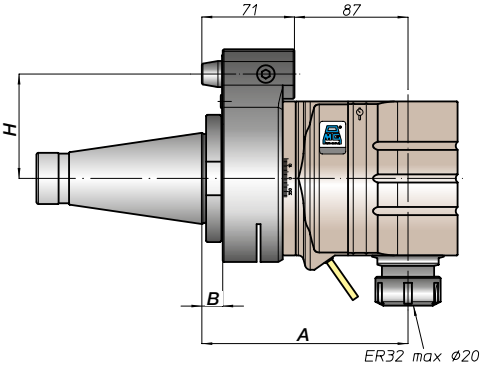
Ø20	M14	1460 N	1-1	3500	90
				RPM	Nm

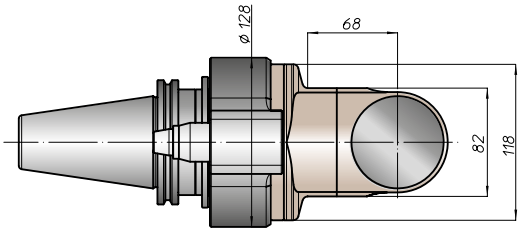
MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

- ER40 DIN6499-ER
- Ø22-Ø27-Ø32 PORTAFRESE FACE MILL ARBOR
- Ø20-Ø25-Ø32 WELDON WHISTLE-NOTCH
- HSK40 DIN69893-HSK
- C4 COROMANT CAPTO®
- ABS40 LICENZA KOMET® KOMET LICENCE®









	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	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

TA20.PL

TESTA AD ANGOLO · *ANGLE HEAD*



PESO
WEIGHT

19 KG

ROTAZIONE
ROTATION

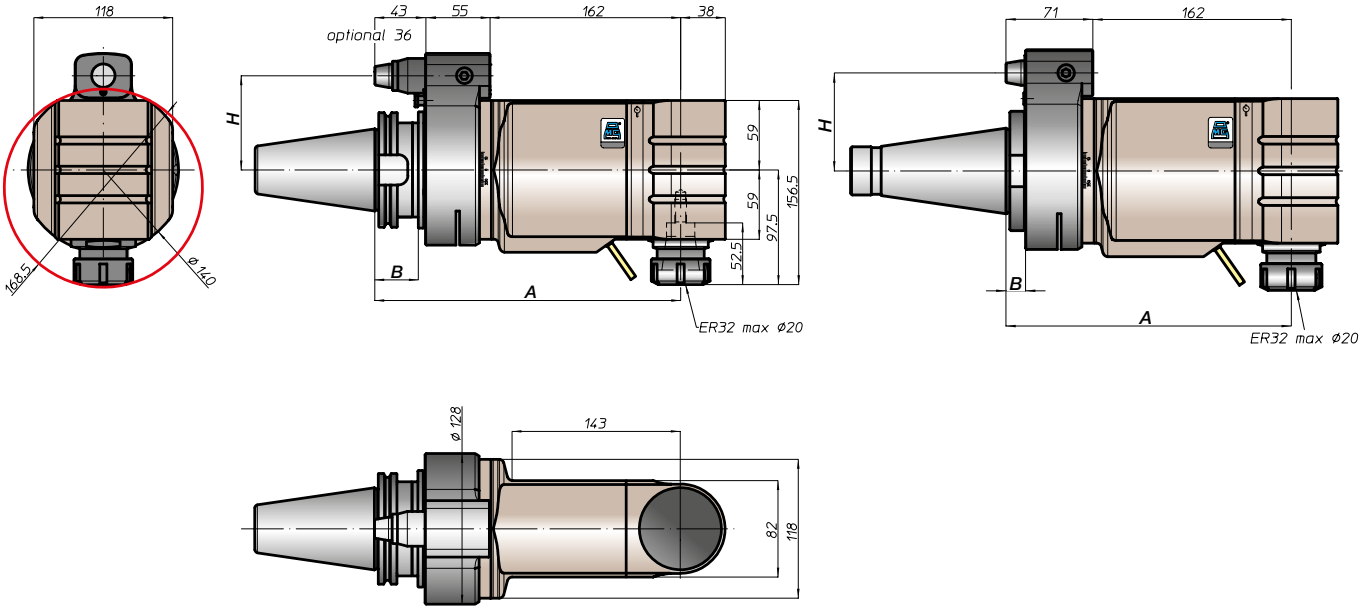
INPUT OUTPUT

CARATTERISTICHE
FEATURES

Ø20	M14	1460 N	1-1	3500	90
				RPM	Nm

MANDRINI DISPONIBILI
AVAILABLE SPINDLES

- ER40 DIN6499-ER
- Ø22-Ø27-Ø32 PORTAFRESE / FACE MILL ARBOR
- Ø20-Ø25-Ø32 WELDON / WHISTLE-NOTCH
- HSK40 DIN69893-HSK
- C4 COROMANT CAPTO®
- ABS40 LICENZA KOMET® / KOMET LICENCE®



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



















TA20.30

TESTA AD ANGOLO · *ANGLE HEAD*

PESO *WEIGHT*

14,7 KG

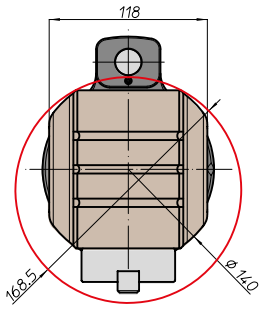
ROTAZIONE *ROTATION*

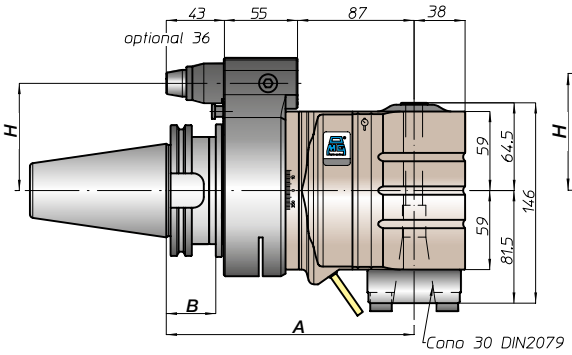
INPUT OUTPUT

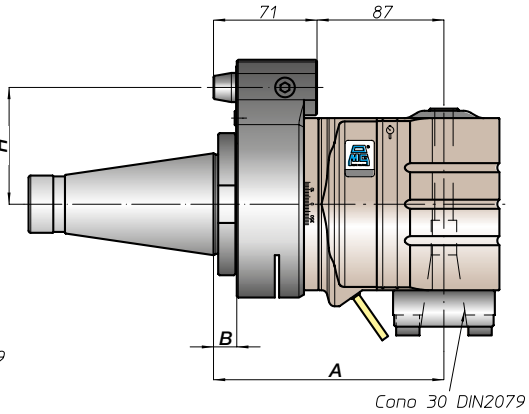
CARATTERISTICHE *FEATURES*

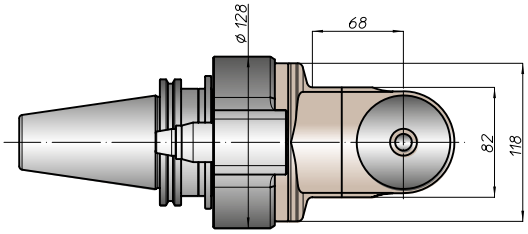
Ø20 | M14 | 1460 N | 1-1 | 3500 RPM | 90 Nm











Nota

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

Note

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

CONO *SHANK*	DIN69871		CAT 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

TA26.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

22 KG

ROTAZIONE *ROTATION*

INPUT OUTPUT

CARATTERISTICHE *FEATURES*

Ø26 M20 3020 N 1-1 2500 165 Nm

MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

ER50 DIN6499-ER

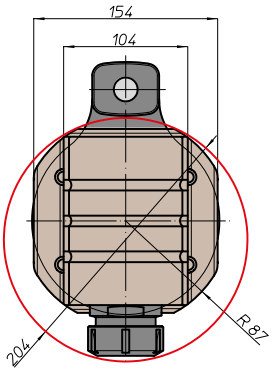
Ø16 -Ø27-Ø32-Ø40 PORTAFRESE FACE MILL ARBOR

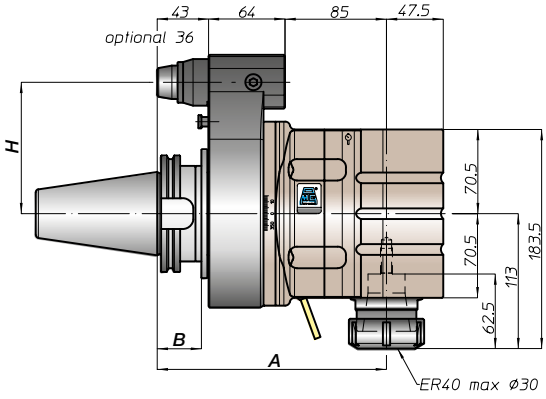
Ø32 WELDON WHISTLE-NOTCH

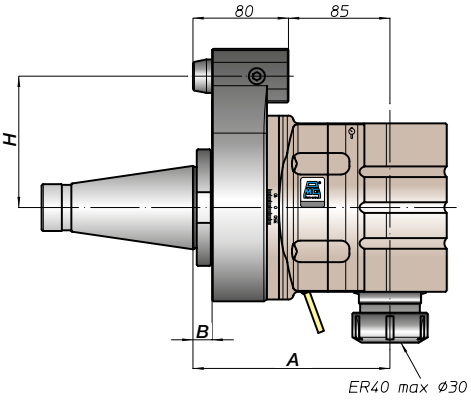
HSK63 DIN69893-HSK

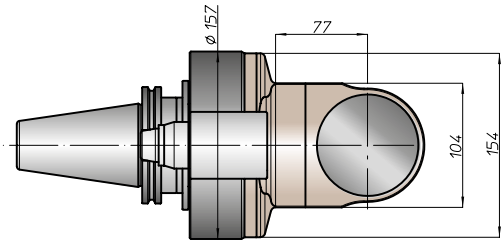
C4-C5-C6 COROMANT CAPTO®

ABS50 LICENZA KOMET® KOMET LICENCE®









		CAT	BT	HSK	CAPTO	KM		NMTB
CONO *SHANK*	DIN69871	ANSIB5.50			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

TA26.40

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

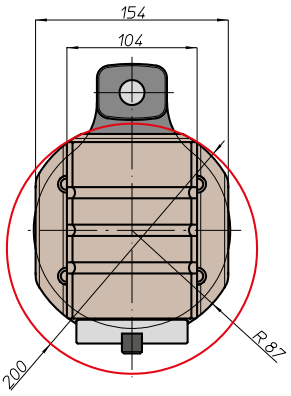
22 KG

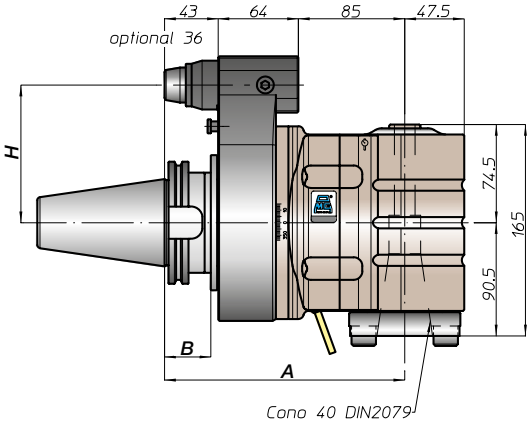
ROTAZIONE *ROTATION*

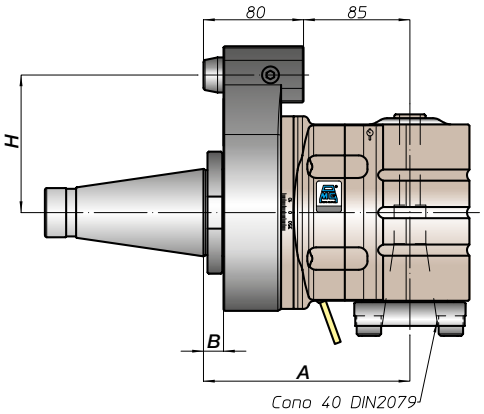
INPUT OUTPUT

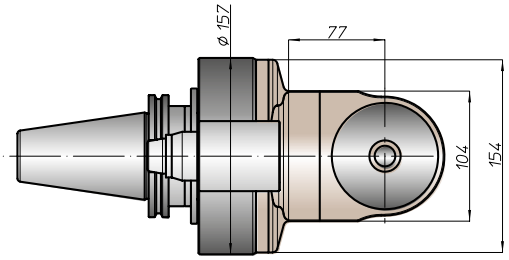
CARATTERISTICHE *FEATURES*

Ø26 | M20 | 3020 N | 1-1 | 2500 | 165 Nm









Nota

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

Note

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

CONO *SHANK*	DIN69871		CAT 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 DIN69871, ANSIB5.50 and BT, dual contact as option

TA30.P

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

24 KG

ROTAZIONE *ROTATION*

INPUT OUTPUT

CARATTERISTICHE *FEATURES*

Ø30 M24 3500 N 1-1 2500 205

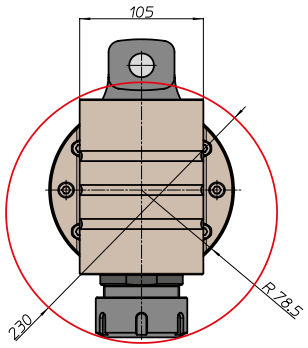
MANDRINI DISPONIBILI *AVAILABLE SPINDLES*

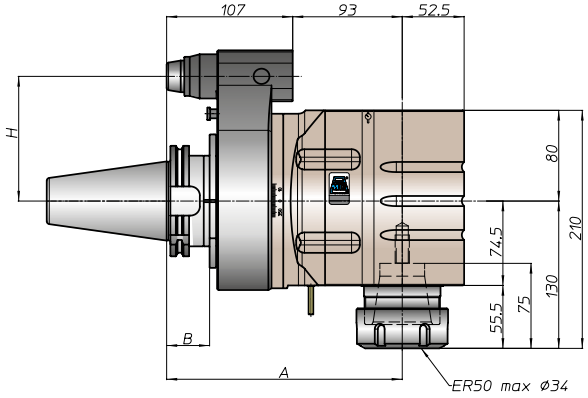
Ø27-Ø32-Ø40 PORTAFRESE FACE MILL ARBOR

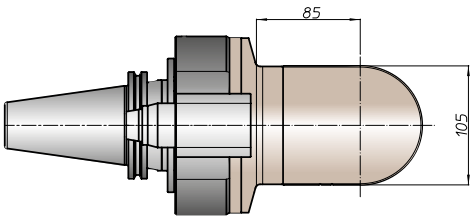
Ø32 WELDON WHISTLE-NOTCH

HSK63 DIN69893-HSK

C6 COROMANT CAPTO®







CONO *SHANK*	DIN69871	CAT ANSIB5.50	BT	HSK DIN69893	CAPTO ISO26623	KM	DIN2080	NMTB 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	110			
H OPTIONAL								

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

TA30.40

TESTA AD ANGOLO · *ANGLE HEAD*



PESO *WEIGHT*

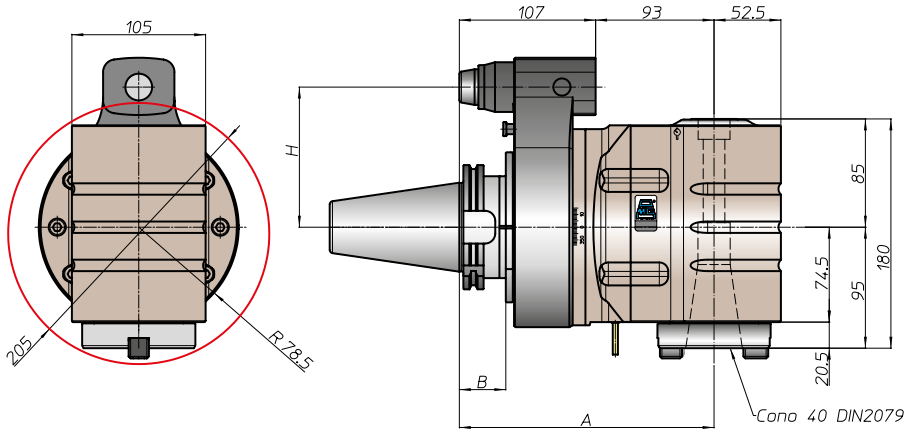
24 KG

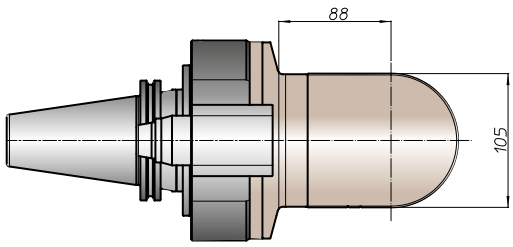
ROTAZIONE *ROTATION*

INPUT OUTPUT

CARATTERISTICHE *FEATURES*

Ø30 | M24 | 3500 N | 1-1 | 2500 RPM | 205 Nm





Nota

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

Note

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

CONO *SHANK*	DIN69871		CAT ANSIB5.50	BT	HSK DIN69893		CAPTO ISO26623	KM	DIN2080	NMTB ANSIB5.18
SIZE	45	50	50	50	80	100	C8	100	50	50
A	200		200	208	209		204	200	200	200
B	35		35	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