

TA Heavy Duty Angle Heads

FH



HT



BAH



VH



TA.CP



TSI/TSX



TA



T



MO



MT-TC-TC3



Made in Italy

Sistemi di foratura
Sistemi di foratura
Sistemi di foratura

L'azienda O.M.G. Srl è lieta di presentare in questa unica soluzione grafica tutti i suoi prodotti, interamente progettati e costruiti al suo interno.
Chi ci conosce da un po' di tempo avrà potuto notare l'evoluzione tecnica e strutturale di cui l'azienda è protagonista.

La nostra ampia gamma di prodotti si è ampliata e migliorata:

- **serie TA**, teste ad angolo
- **serie MO**, moltiplicatori di giri
- **serie HT**, torrette a revolver
- **serie VH**, teste multiple ad interassi variabili
- **serie TSI-TSX**, teste multiple per spuntatura ingranaggi
- **serie T**, teste multiple a giunti universali
- **serie MT, TC, TC3, TFS** esecuzioni speciali studiate e personalizzate per le più svariate applicazioni.
- **serie BAH**, teste ad angolo per grosse asportazioni studiate per l'industria militare, navale, aerospaziale ecc.
- **serie TA_CP**, teste ad angolo "Light Duty" studiate per contenere peso e costi.
- **serie FH**, teste a sfacciare studiate e realizzate per essere applicate su macchine utensili a CN.

È una dichiarazione d'intenti, l'esplicitazione della nostra mission: creatività e consulenza tecnica al servizio del cliente per aiutarlo a migliorare la propria produttività, affidabilità del servizio pre e post vendita con la garanzia di un'assistenza tempestiva e una sempre maggiore puntualità nelle consegne.

Ringraziamo con l'occasione tutti i clienti che hanno scelto i prodotti O.M.G., contribuendo così all'evoluzione degli stessi; un gradito benvenuto a tutti quelli che si rivolgeranno con fiducia a O.M.G., certi di avere un'azienda attenta alle singole esigenze e partecipe nelle più diverse attività produttive.

Un po' di storia.

L'azienda O.M.G. nasce negli anni '60 come laboratorio di piccole dimensioni specializzato nella progettazione e fabbricazione di teste multiple. La produzione era indirizzata, allora, verso tre prodotti: mandrini a maschiare, teste multiple a giunti universali e teste multiple ad assi variabili.

In seguito, sintonizzandosi con la grande evoluzione dell'industria metalmeccanica, anche l'azienda O.M.G. cresce e si sviluppa, partecipando alla diffusione di nuovi prodotti con le proposte più innovative e d'avanguardia in questo settore di ricerca e produzione.

Le tecnologie d'avanguardia nei processi produttivi e l'impiego di nuove tecniche computerizzate firmano la notorietà e l'immagine del marchio O.M.G.; un nome diffuso e conosciuto da tutte le aziende, piccole e grandi, un'immagine mai smentita ma sottolineata nelle numerose campagne pubblicitarie realizzate.

***Ringraziamo per l'attenzione,
O.M.G. Srl***



O.M.G. Srl is pleased to present, in a single graphic solution, its entire range of products, all designed and built inside its production facility. Those of you who have known us for some time will be well aware of the technical and organizational evolution that distinguishes our company.

Our range of products has been extended and upgraded:

- **series TA**, angle heads
- **series MO**, spindle speeders
- **series HT** revolver turret heads
- **series VH**, variable centre distance multispindle heads
- **series TSI-TSX**, gear chamfering multispindle heads
- **series T**, universal joint multispindle heads
- **series MT, TC, TC3**, TFS special executions studied and customized to satisfy the most different applications.
- **series BAH**, angle heads suitable for heavy machining studied for military industry, naval industry, aerospace industry, etc.
- **series TA_CP**, "Light Duty" angle heads studied to limit weight and costs.
- **series FH**, facing heads, a new choice for the market, studied and realized to be applied on CNC machine tools.

Our mission involves a declaration of intent: creativity and technical advice at the service of customers to enable them to upgrade their output and their before and after-sales service reliability through prompt assistance and increasingly more punctual delivery.

Allow us to take this opportunity to thank all those customers who have chosen O.M.G. products, thereby contributing to their evolution; a warm welcome too to those who turn with confidence to O.M.G. , a company that caters for individual requirements and is involved in a range of different manufacturing activities.

O.M.G. history

O.M.G. was established in the 1960s as a small workshop specialised in designing and manufacturing multispindle heads. At that time, production centred on three products: tapping spindles, adjustable joint multispindle heads and variable centre distance multispindle heads.

Later on, in line with the evolution of the mechanical engineering industry, O.M.G. expanded and developed, taking part in the diffusion of new products with innovative and cutting-edge proposals for this research and production sector.

The cutting-edge technologies employed in the manufacturing processes and the use of new computerised methods resulted in the O.M.G. brand name and image becoming widely known to small and large companies alike, an image sustained by a long series of advertising campaigns.

***Thank you for your attention,
O.M.G. Srl***





teste ad angolo angle heads



Un prodotto fondamentale che grazie alla riduzione dei piazzamenti in lavorazione, vanta un contributo prezioso per l'aumento della produttività necessaria per competere su tutti i mercati: parliamo della Testa ad Angolo, da considerare come parte integrante del parco utensili della macchina.

- **Esperienza** - E' dall'inizio degli anni '60 che O.M.G. crea prodotti. L'esperienza non si acquista, si acquisisce. La realizzazione fin dai primi anni di prodotti speciali ha formato le competenze per lo sviluppo di una gamma di Teste ad Angolo articolata e performante, idonea alla clientela più esigente che crede negli investimenti per conquistare nuovi mercati.
- **Tradizione** - Il termine "qualità" viene spesso citato, ma non significa soltanto utilizzare macchine utensili tecnologicamente avanzate per ottenere lavorazioni precise. La qualità è il risultato di esperienze pratiche, di calcoli matematici, di sfide vinte e perse ma comunque accettate, di cui fare grande tesoro.
- **Innovazione** - Le Teste ad Angolo Speciali di ultima generazione offrono prestazioni superiori a tutti gli standard e condizionano spesso la produzione fino al punto da divenire indispensabili nel completamento del processo produttivo. Da queste OMG continua a trarne grande beneficio e soddisfazione con soluzioni tecniche poi riproposte sulle Teste ad Angolo Standard a catalogo.
- **Modularità** - Indispensabile oggi la flessibilità produttiva, ancora maggiore negli investimenti. In questa ottica gli elementi modulari delle Teste ad Angolo consentono di ridurre i costi ed aumentare i benefici.
- **Personalizzazione** - Se l'ampia gamma di Teste ad Angolo standard non risponde all'esigenza specifica, siamo pronti a progettare e costruire il prodotto speciale, forti dell'esperienza di centinaia di soluzioni operative volte alle più svariate attività produttive.

An ultimate product that gives a valuable contribution to the productivity increase by reducing the management of the pieces to be machined, necessary condition to compete in the markets all over the world: we are talking about the Angle Heads, to be considered an integral part of the machine tools range.

- **Experience** - O.M.G. engineers its products since the beginning of the '60's. The experience cannot be bought but it is acquired. Since that time the achievement of special products gave us the expertise to develop a range of Angle Heads very broad and performing, suitable to the most demanding customers believing in investments to gain new market shares.
- **Tradition** - The word "quality" is often mentioned, but it does not mean just to use technologically advanced machine tools to get accurate machining. The quality is the result of practical experiences, of mathematical calculations, of won and lost challenges, anyway accepted, which are treasured.
- **Innovation** - The last generation Special Angle Heads offers performances much higher than all standards, and they often affect the production cycles until becoming indispensable when completing production stages. O.M.G. keeps getting beneficial results from his special range which is also reflected into the standard Angle Heads range.
- **Modularity** - Nowadays the productivity flexibility is mandatory, and even more in the investments. Towards this goal the O.M.G. Angle Heads modular system allows cost reductions and to increase profits.
- **Customization** - And if the wide range of standard Angle Heads will not meet your requirements, we are ready to engineer and to manufacture a new Special Angle Head product, always supported by our experience of hundreds of solutions done for many different industrial activities.

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Accessori
Accessories

Appendice tecnica
Technical supplement



Panoramica prodotti

Product overview



TAR

Piccole per piccoli spazi.

Tiny for narrow spaces.

Pagina/Page: 4-8



TA

Lavorazione singola di foratura e fresatura.

Drilling and milling machining.

Pagina/Page: 4-16



TA... D

Input refrigerante attraverso lo stop-block e uscita attraverso il centro utensile.

Input coolant from stop-block, and output through tool spindle.

Pagina/Page: 4-36



TAO

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

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

Pagina/Page: 4-46



TAF

Mandrino fisso, angolo su richiesta del cliente.

Fixed spindle with custom angle.

Pagina/Page: 4-70

Simboli/Icons



Capacità di foratura
Drilling capacity



Pressione
Pressure



Maschiatura
Tapping



Peso
Weight



Rapporto entrata/uscita
Ratio input/output



Carico assiale
Axial load



N° max giri in uscita
Max output RPM



Panoramica prodotti

Product overview



TA... L

Versione allungata per lavorazioni singole di foratura e fresatura.

Length stretched version for drilling and milling single machining operations.

Pagina/Page: 4-9



TA... 2P

Due mandrini contrapposti di 180°.

180° two opposed spindles.

Pagina/Page: 4-30



TAO... PD

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: 4-47



TAV

Mandrino variabile $\pm 90^\circ$.

$\pm 90^\circ$ adjustable spindle.

Pagina/Page: 4-56

Simboli/Icons



Peso con cono 40
Weight with size 40 shank



Dual
Contact



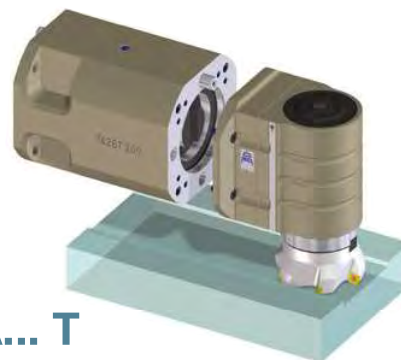
Peso con cono 50
Weight with size 50 shank



Rotazione in ingresso
Input rotation



Rotazione in uscita
Output rotation



TA... T

Connessione alla macchina tramite flangia.

To be connected to the machine by flange.

Pagina/Page: 4-76

FH

BAH

TA-CP

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MO

HT

VH

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T

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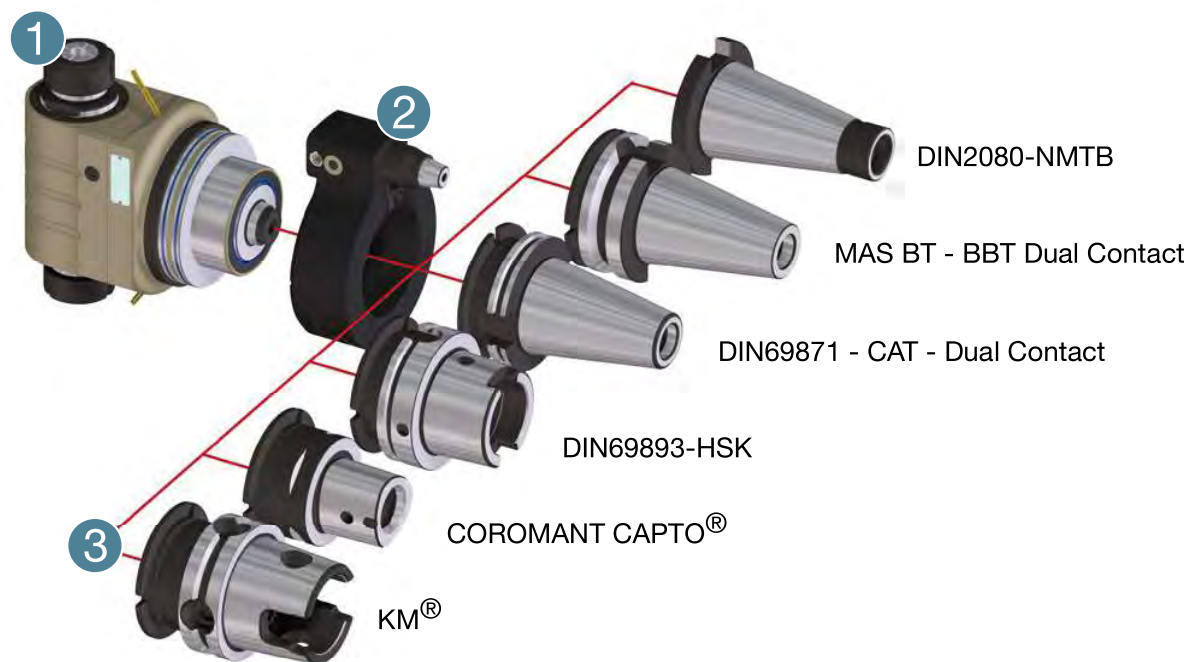
Accessori
Accessories

Appendice tecnica
Technical supplement

4-3

Sistema modulare per applicazioni flessibili

Modular system for flexible application



- 1 Testa ad angolo con presa utensile ER standard, oppure vedi tipi Mandrino.
Angle Head with standard ER tool connection, or check other spindle types.
- 2 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.
- 3 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 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.



Prese utensili - tipi mandrino

Clamping systems and spindle types



1

DIN6388-ER



2

Albero portafrese
Milling shaft



3

Weldon
Whistle-Notch



4

DIN69893-HSK



5

COROMANT
CAPTO®



6

ABS
Licenza KOMET®



7

ISO-DIN2079
NMTB-BT

Refrigerante utensile

Coolant tool



STANDARD



TA... PD
max 10 bar



TAO... PD
max 70 bar



TAF... PD
max 70 bar



TAV... PD
max 70 bar

Il circuito refrigerante è standard - Tutte le teste sono provviste di canalizzazione interna, che parte dal perno dell'antiro-tante 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.



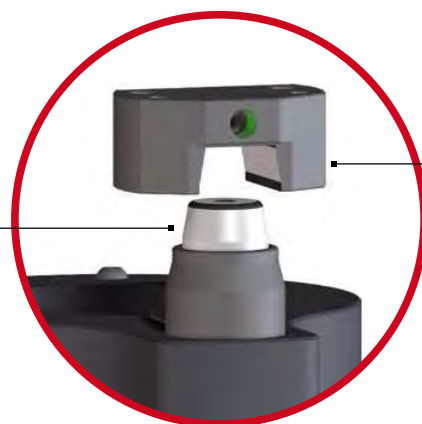
Antirotante Torque arm



STANDARD

TriBlock QuadBlock 

Studiato e realizzato su
specifica richiesta.
*Customized design according
to your application.*



Stop-block

Perno conico
Conical pin

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.

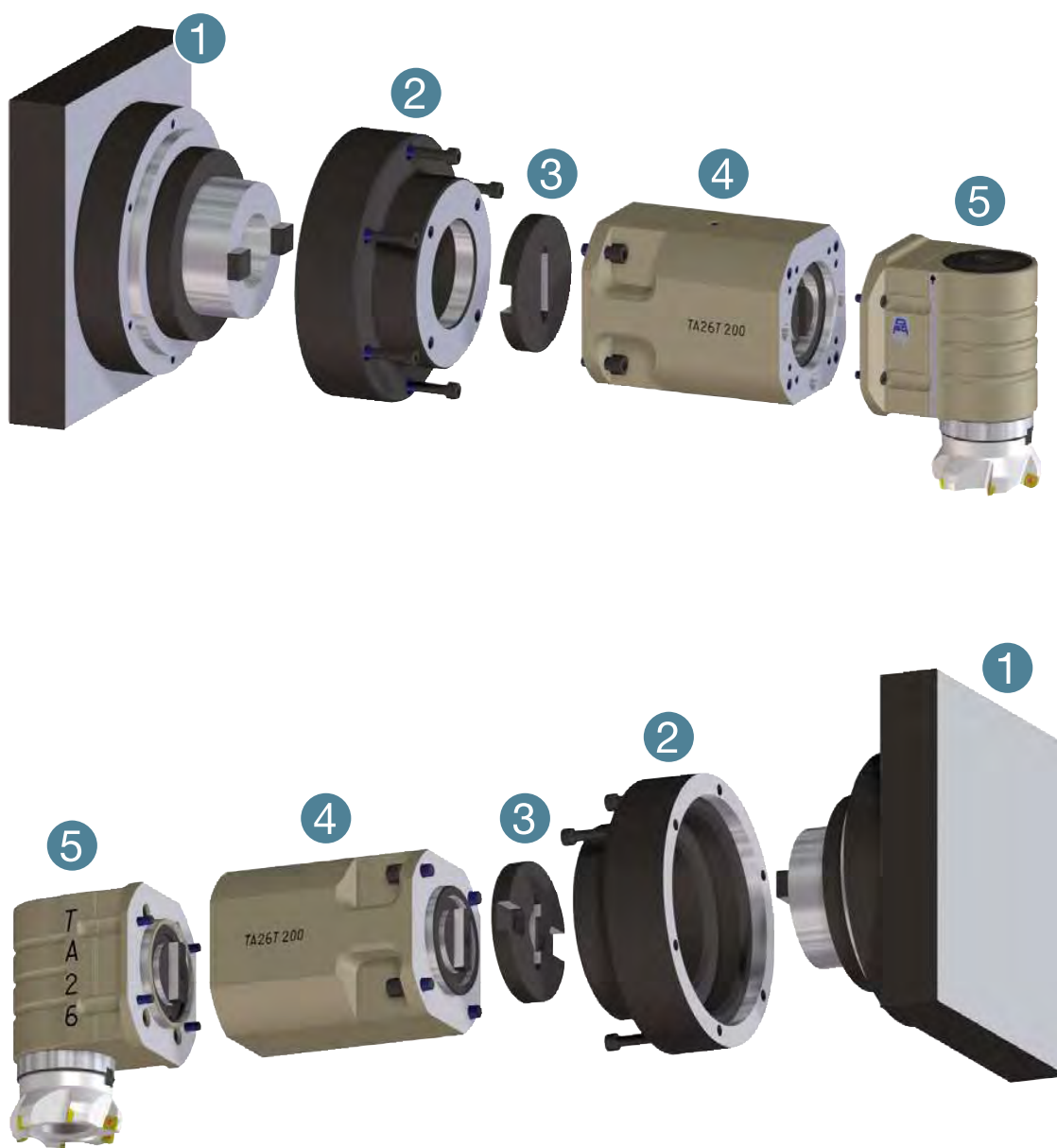
Higher performances - The standard torque arm allows an automatic change of the head. The coupling system between the conical pin, which can be axial adjusted, and the "V"-housing of the stop-block, allows to cancel any tolerance between those parts generating a rigid and backlash free system. The advantages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

Maximum stability - The O.M.G. **TriBlock** and **QuadBlock** 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	<i>Machine</i>
2	Flangia di connessione	<i>Connection flange</i>
3	Giunto ISO 40/50	<i>Driving joint ISO 40/50</i>
4	Estensione	<i>Extension</i>
5	Testa ad angolo TA... T	<i>Angle head TA... T</i>

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



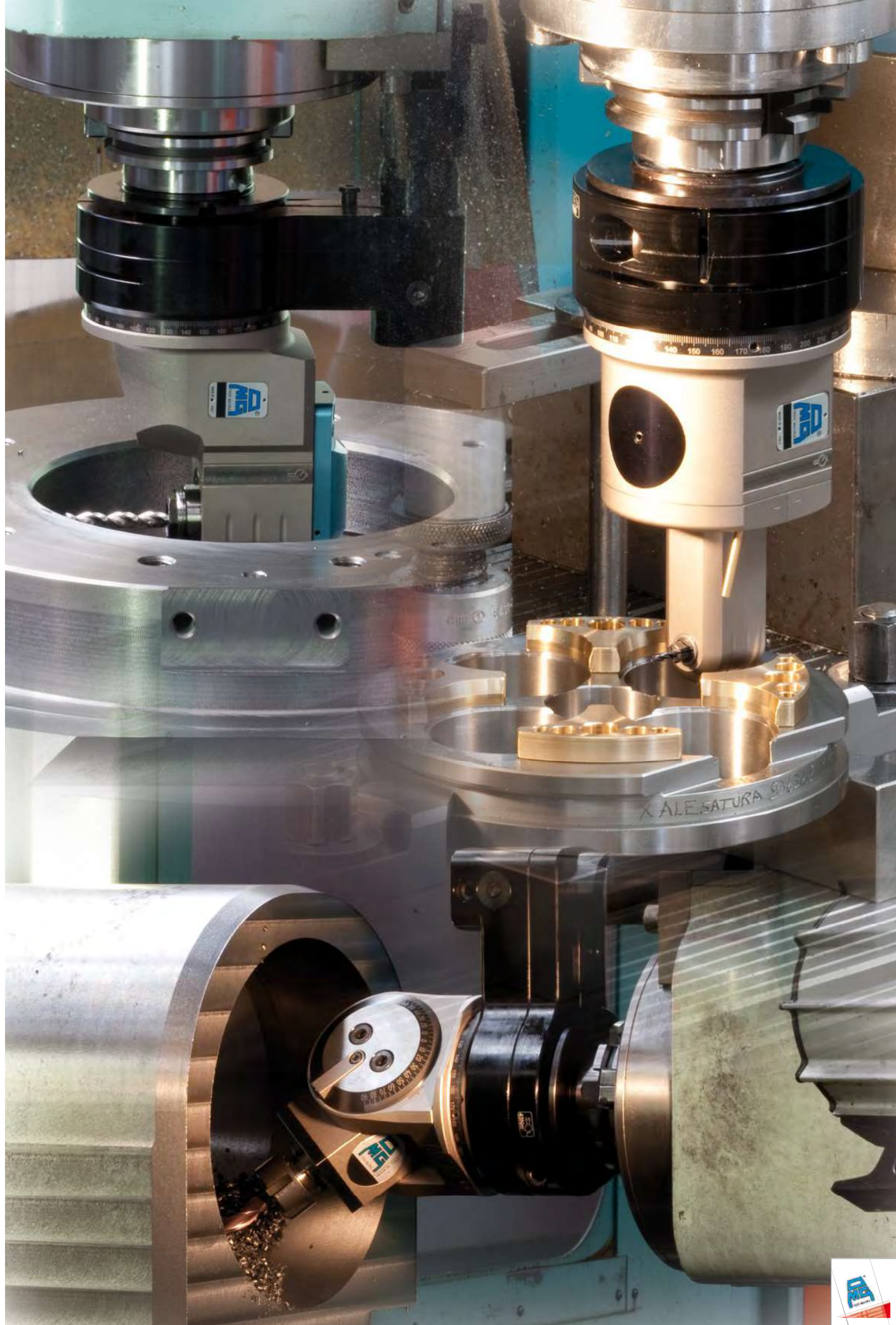
Le Teste ad Angolo sono racchiuse in robusta valigetta di materiale termoplastico e corredate di una completa dotazione di accessori:

- 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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TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement



testa ad angolo - *angle head*

TAR03.P



caratteristiche/features



peso/weight



6,7 kg



9,1 kg

rotazione/rotation

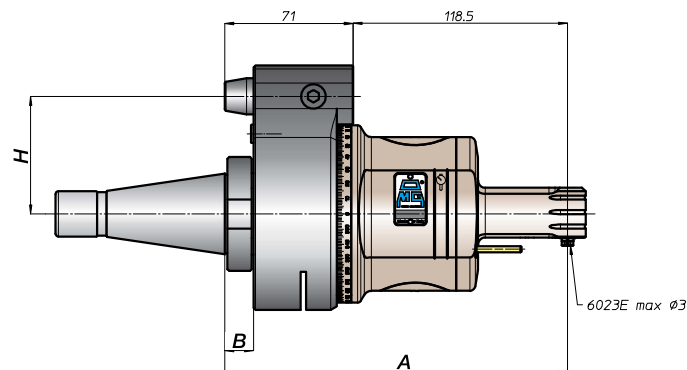
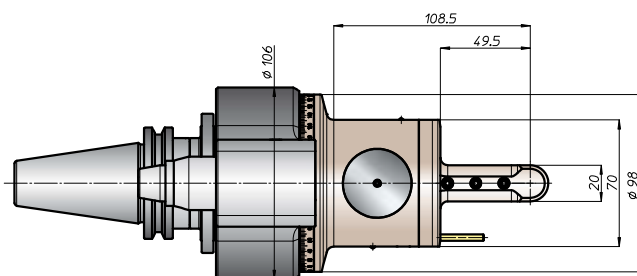
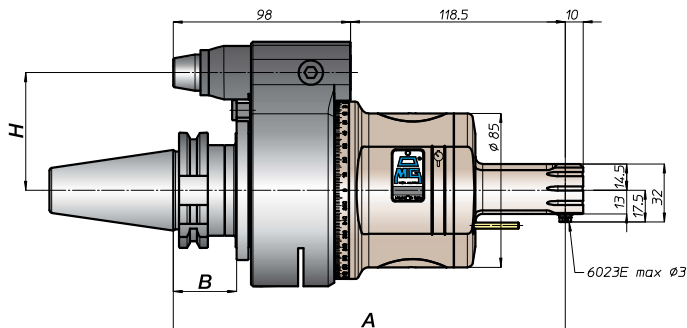
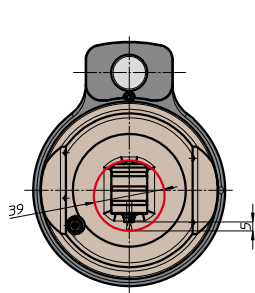
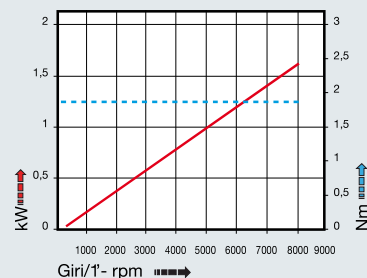


input



output

prestazioni/*performances*



CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871 	30	216,5	35	65	-
	40				
	45			80	110
	50				
★ CAT ANSIB5.50 	40	216,5	35	65	-
	50			80	110
	50			80	110
★ BT 	40	224,5	45	65	
	50			80	110
DIN69893 	63	225,5	44	65	
	80		46	80	110
	100				
CAPTO ISO26623 	C5	220,5	39	65	
	C6				
	C8		80	110	
KM 	63	216,5		65	
	80			80	110
	100				
DIN2080 	-	186,5	13	65	-
	40				
	-	189,5	16	80	110
	50				
NMTB ANSIB5.18 	40	186,5	13	65	-
	50	189,5	16	80	110

* Option: Dual Contact

TAR03.PL

caratteristiche/features


ø 3 M3 70 N



1-1.2308 8000

peso/weight


6,8 kg



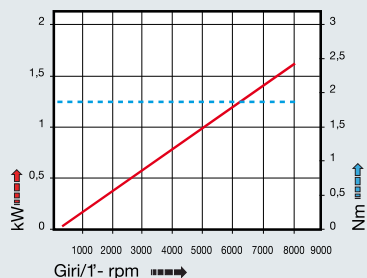
9,2 kg

rotazione/rotation


input

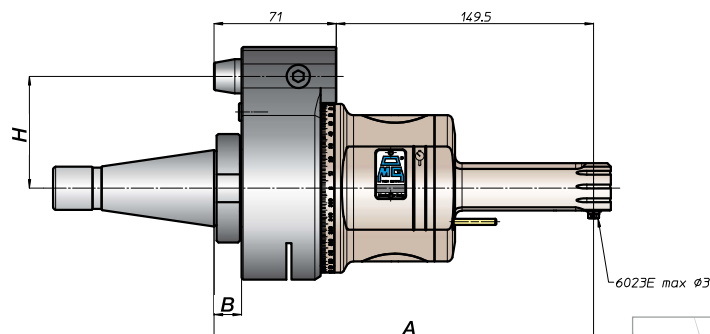
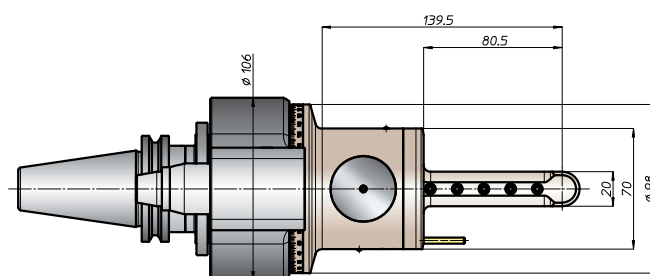
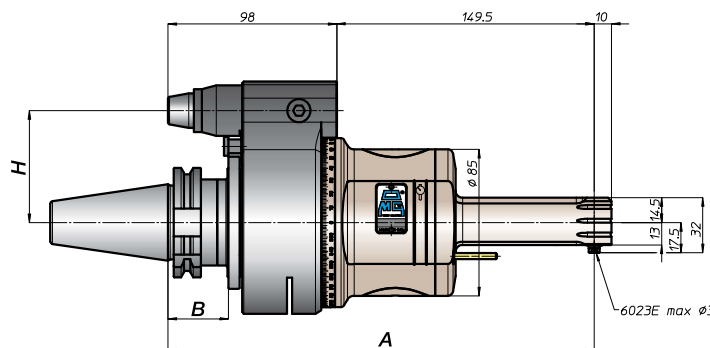
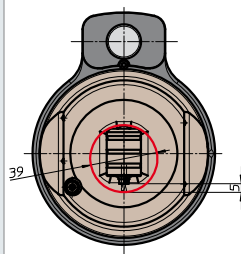


output

prestazioni/performances


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	30	247,5	35	65	-
	40			80	110
	45			80	110
	50			80	110
★ ANSIB5.50 CAT	40	255,5	45	65	-
	50			80	110
★ BT	40			65	-
	50			80	110
DIN69893 HSK	63	256,5	44	65	-
	80		46	80	110
	100		46	80	110
ISO26623 CAPTO	C5	251,5	39	65	-
	C6			80	110
	C8			80	110
KM	63	247,5	35	65	-
	80			80	110
	100			80	110
DIN2080	-	217,5	13	65	-
	40	220,5	16	80	110
	-			80	110
	50			80	110
ANSIB5.18 NMTB	40	217,5	13	65	-
	50	220,5	16	80	110

★ Option: Dual Contact



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Accessori
Accessories

Appendice tecnica
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testa ad angolo - *angle head*

TAR04.P



caratteristiche/features



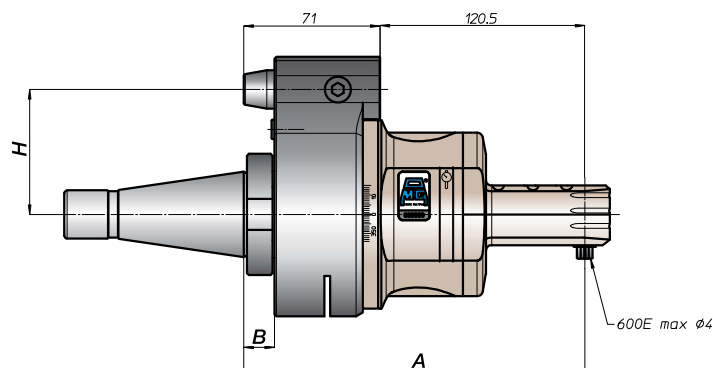
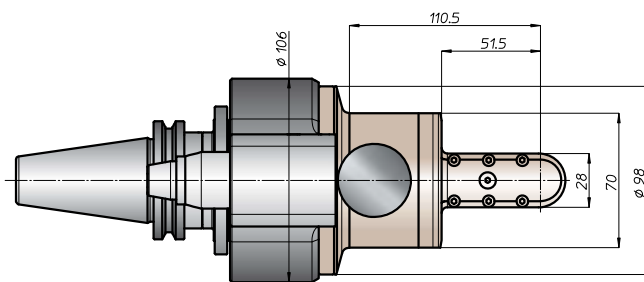
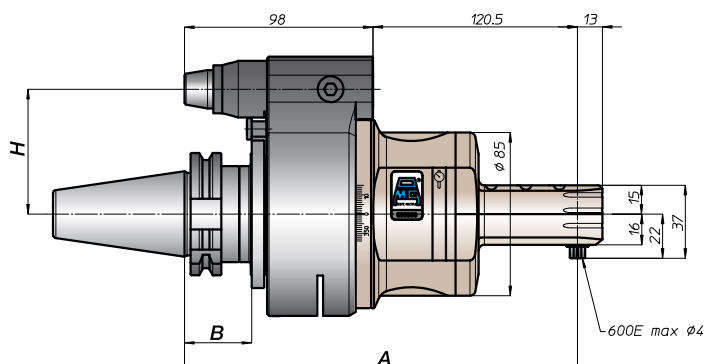
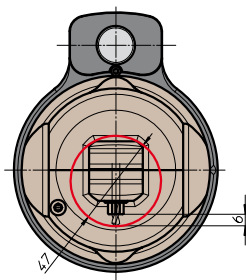
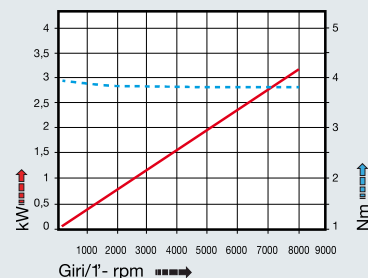
peso/weight



rotazione/rotation



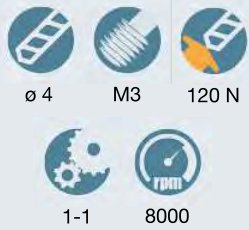
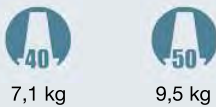
prestazioni/*performances*

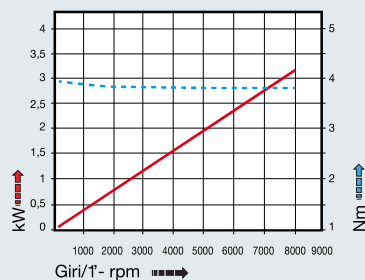


CONO SHANK	size	A	B	H	
				standard	optional
 DIN69871 *	30	218,5	35	65	-
	40				
	45			80	110
	50				
 ANSIB5.50 *	40	226,5	45	65	-
	50			80	110
 BT *	40			65	
	50			80	110
 DIN69893	63	227,5	44	65	
	80		46	80	110
	100				
 ISO26623	C5	222,5	39	65	
	C6				
	C8			80	110
 KM	63	218,5		65	
	80			80	110
	100				
 DIN2080	-	188,5	13	65	-
	40				
	-	191,5	16	80	110
	50				
 ANSIB5.18	40	188,5	13	65	-
	50	191,5	16	80	110

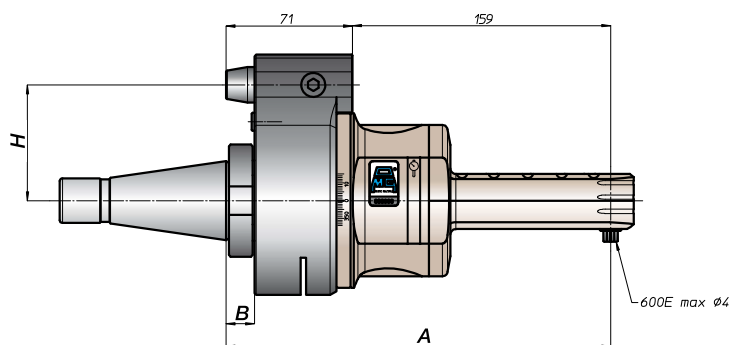
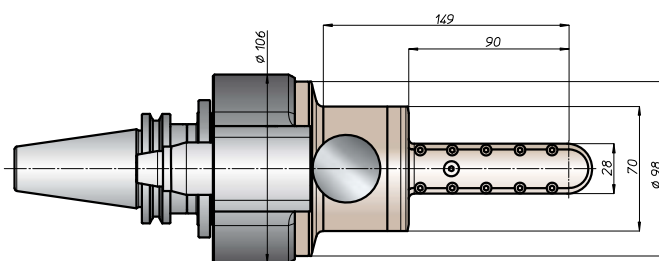
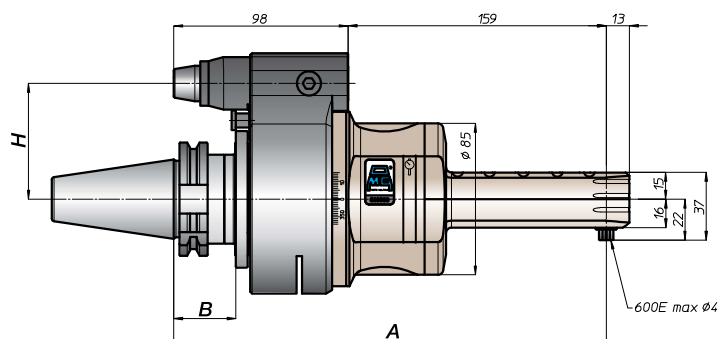
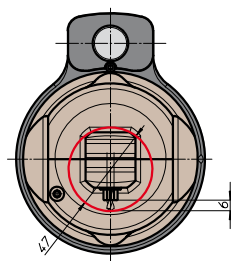
* Option: Dual Contact

TAR04.PL

caratteristiche/features

peso/weight

rotazione/rotation

prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	30	257	35	65	-
	40			80	110
	45			80	110
	50			80	110
★ ANSIB5.50	40	265	45	65	-
	50			80	110
★ BT	40	265	45	65	-
	50			80	110
DIN69893 HSK	63	266	44	65	-
	80		46	80	110
	100		46	80	110
ISO26623 CAPTO	C5	261	39	65	-
	C6			80	110
	C8			80	110
KM	63	257	35	65	-
	80			80	110
	100			80	110
DIN2080	-	227	13	65	-
	40	230	16	80	110
	50			80	110
ANSIB5.18 NMTB	40	227	13	65	-
	50	230	16	80	110



testa ad angolo - angle head

TAR06.P



caratteristiche/features



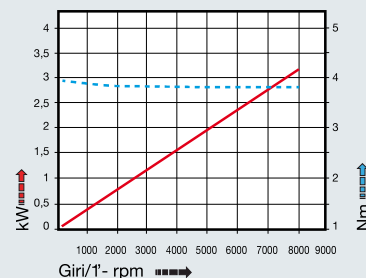
peso/weight



rotazione/rotation

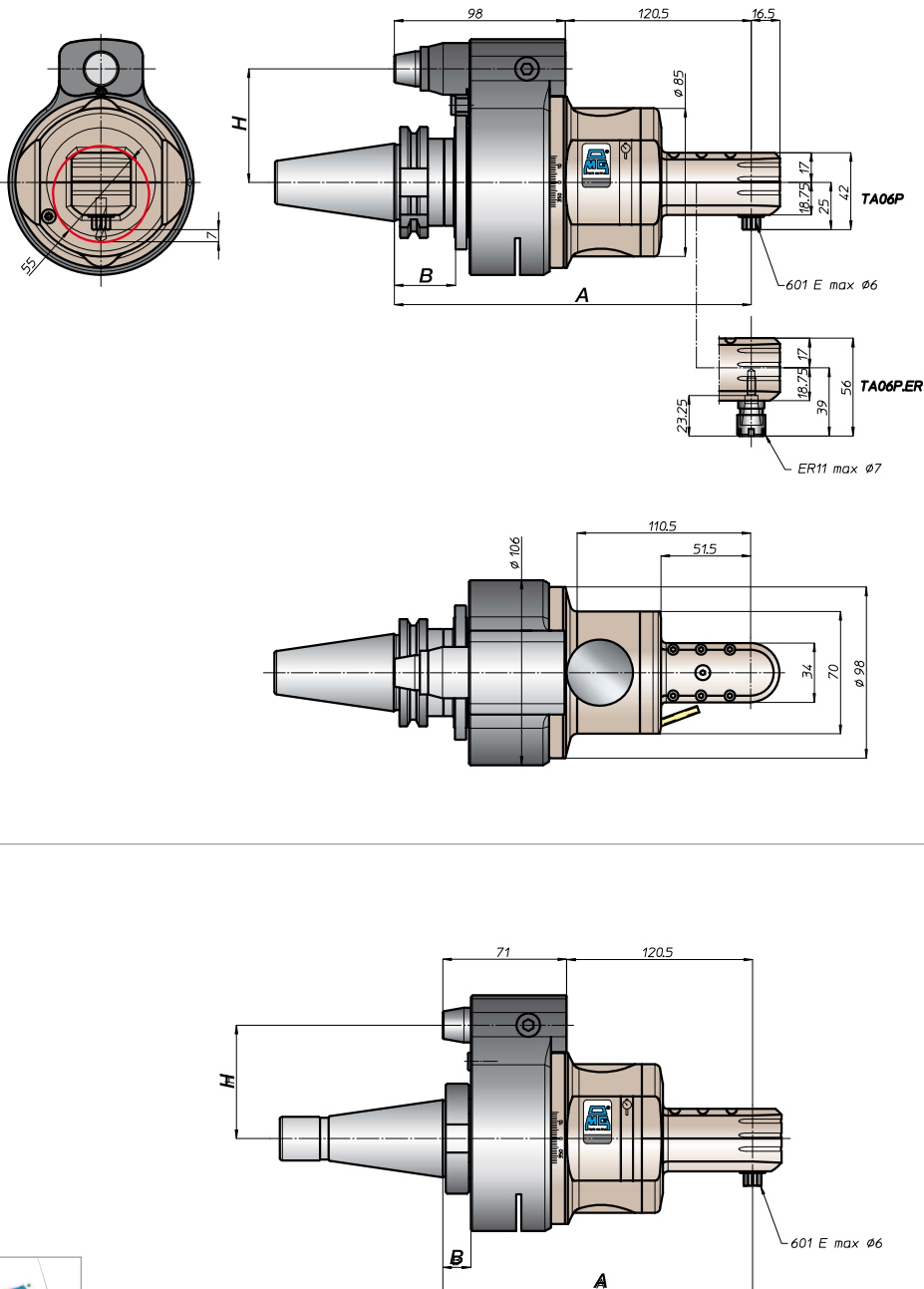


prestazioni/performance



tipi mandrino disponibili / available spindle types

3 Weldon
 Whistle-Notch
 $\varnothing 6$



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	30	218,5	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	226,5	45	65	-
	50			80	110
* BT	40	227,5	46	65	-
	50			80	110
HSK	63	218,5	13	65	-
	80			80	110
	100			80	110
DIN69893	63	222,5	39	65	-
	80			80	110
	100			80	110
CAPTO	C5	222,5	39	65	-
	C6			80	110
	C8			80	110
ISO6623	63	218,5	13	65	-
	80			80	110
	100			80	110
KM	63	218,5	13	65	-
	80			80	110
	100			80	110
DIN2080	-	188,5	16	65	-
	40			80	110
	50			80	110
ANSIB5.18 NMTB	40	188,5	13	65	-
	50			80	110

* Option: Dual Contact

TAR06.PL


caratteristiche/features


ø 6 M5 150 N



1-1 8000

peso/weight


7,3 kg



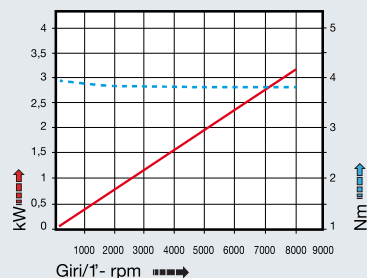
9,7 kg

rotazione/rotation


input



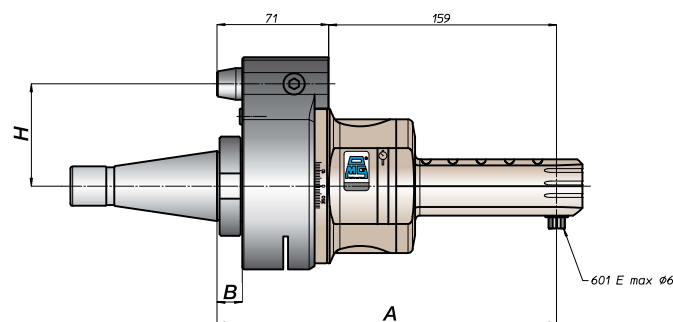
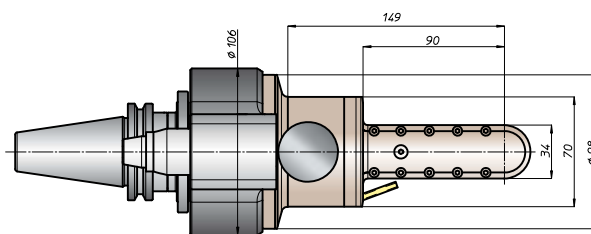
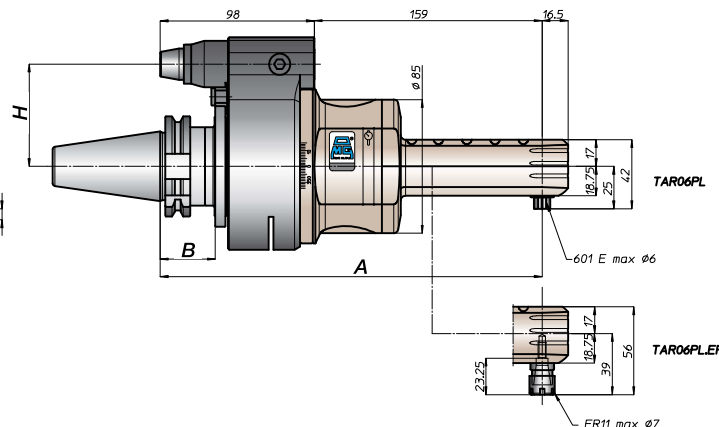
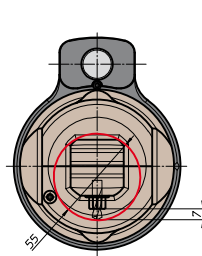
output

prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	30	257	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	257	35	65	-
	50			80	110
BT *	40	257	35	65	-
	50			80	110
HSK	63	266	44	65	-
	80		46	80	110
	100		46	80	110
CAPTO	C5	261	39	65	-
	C6			80	110
	C8			80	110
KM	63	257	35	65	-
	80			80	110
	100			80	110
DIN2080	-	227	13	65	-
	40	227	13	65	-
	50	230	16	80	110
ANSIB5.18 NMTB	40	227	13	65	-
	50	230	16	80	110

tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch Ø6



* Option: Dual Contact

FH

BAH

TA-CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TAR10.PL

caratteristiche/features


ø 10 M8 430 N



1-1 6000

peso/weight


7,5 kg



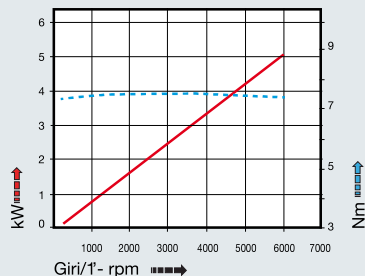
9,3 kg

rotazione/rotation


input



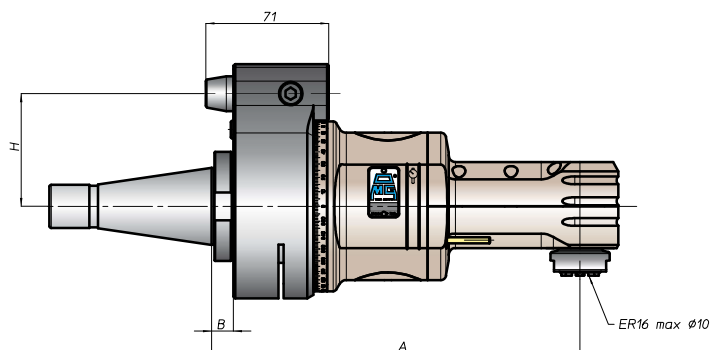
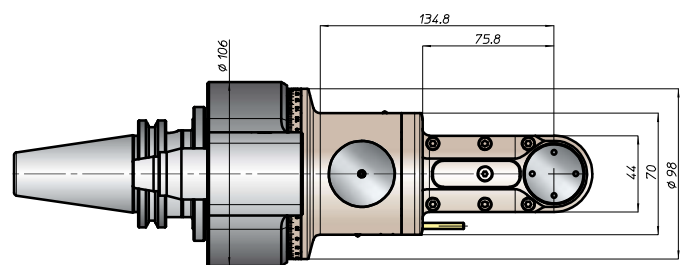
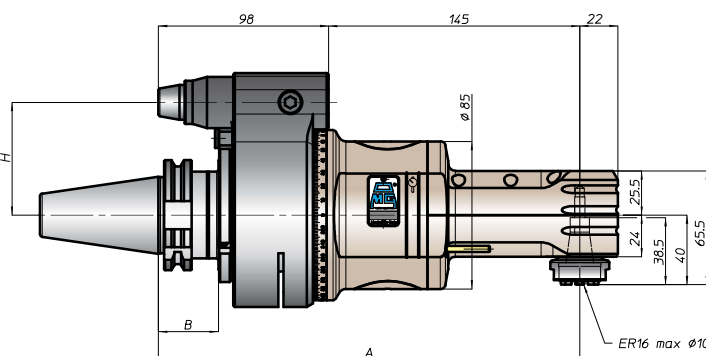
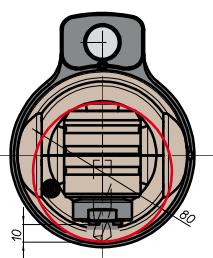
output

prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	243	35	65	-
	40			80	110
	45			80	110
★ CAT	40	251	45	65	-
	50			80	110
	50			80	110
★ BT	40	252	46	65	-
	50			80	110
	50			80	110
HSK	63	247	39	65	-
	80			80	110
	100			80	110
CAPTO	C5	213	13	65	-
	C6			80	110
	C8			80	110
KM	63	216	16	65	-
	80			80	110
	100			80	110
DIN2080	-	213	13	65	-
	40			80	110
	50			80	110
NMTB	40	216	16	65	-
	50			80	110
	50			80	110

tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch
Ø12



★ Option: Dual Contact

FH

BAH

TA-CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA07.P



caratteristiche/features



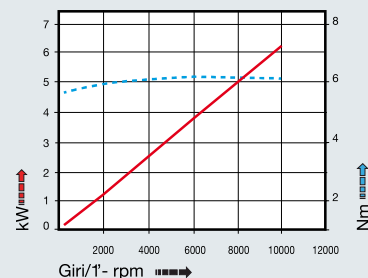
peso/weight



rotazione/rotation

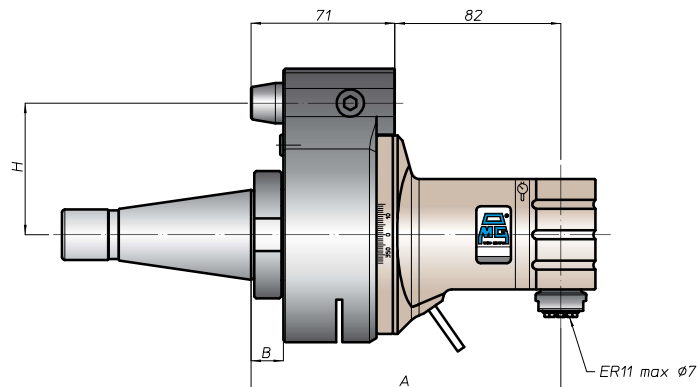
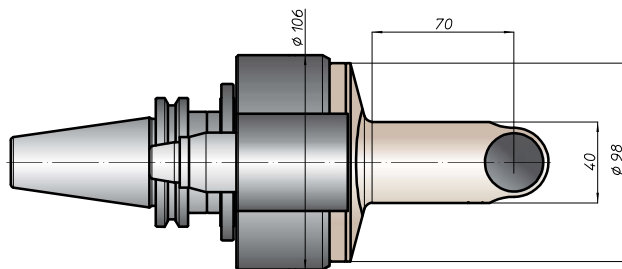
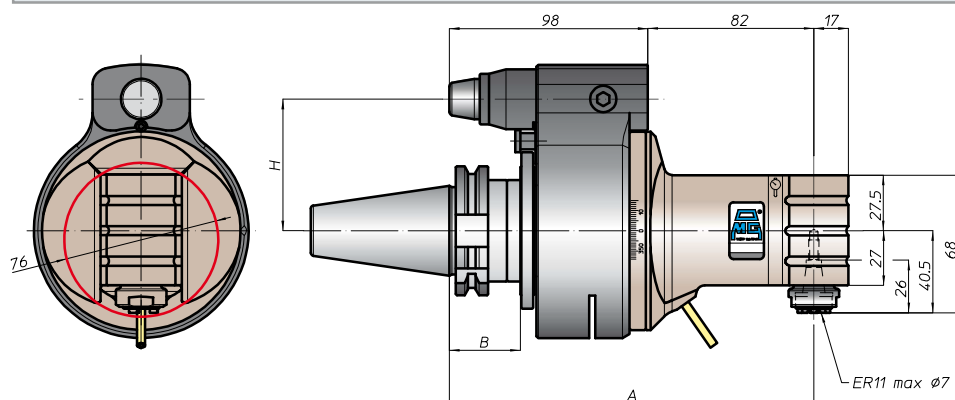


prestazioni/performance



tipi mandrino disponibili / available spindle types

3 Weldon
Whistle-Notch
Ø8-Ø10



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	30	180	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	188	45	65	-
	50			80	110
* BT	40	188	45	65	-
	50			80	110
HSK	63	189	46	65	-
	80			80	110
	100			80	110
CAPTO	C5	184	39	65	-
	C6			80	110
	C8			80	110
KM	63	180	13	65	-
	80			80	110
	100			80	110
DIN2080	-	150	16	65	-
	40			80	110
	-			80	110
	50			80	110
ANSIB5.18 NMTB	40	150	13	65	-
	50			80	110

* Option: Dual Contact

TA10.P



caratteristiche/features



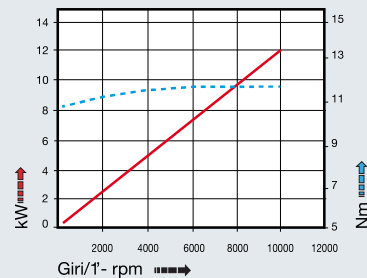
peso/weight



rotazione/rotation

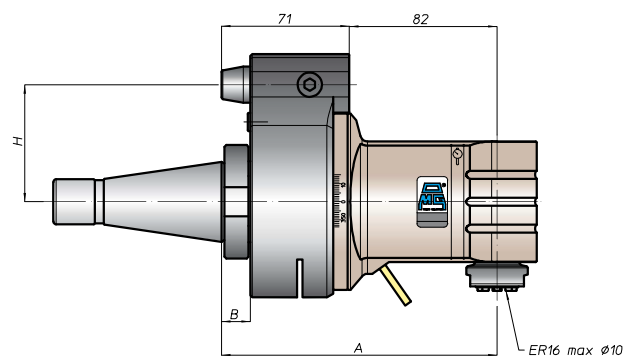
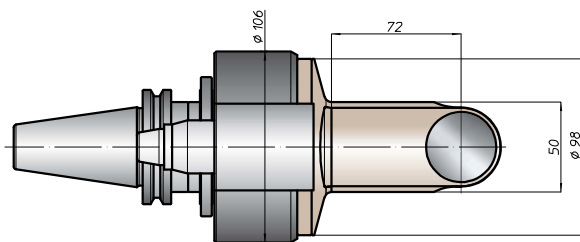
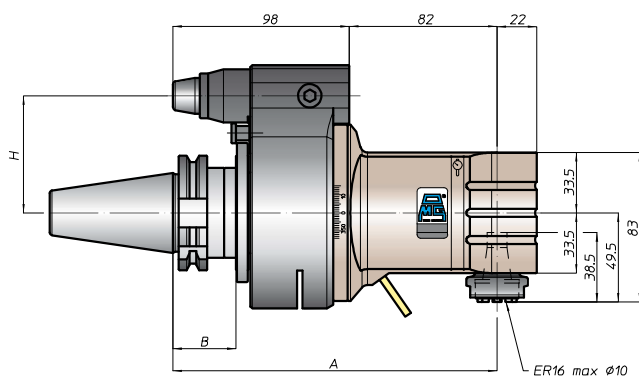
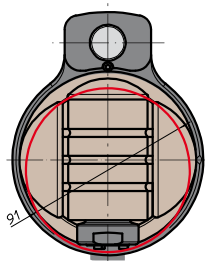


prestazioni/performance



tipi mandrino disponibili / available spindle types

- 1** DIN6388-ER **2** Albero portafresa Milling shaft **3** Weldon Whistle-Notch
- ER20** **Ø16** **Ø10**



CONO SHANK	size	H			
		A	B	standard	optional
DIN69871 *	30	180	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	188	45	65	-
	50			80	110
BT *	40	188	45	65	-
	50			80	110
HSK	63	189	46	65	-
	80			80	110
	100			80	110
CAPTO	C5	184	39	65	-
	C6			80	110
	C8			80	110
KM	63	180	13	65	-
	80			80	110
	100			80	110
DIN2080	-	150	16	65	-
	40			80	110
	-			80	110
	50			80	110
ANSIB5.18 NMTB	40	150	13	65	-
	50			80	110

* Option: Dual Contact

TA10.PL

caratteristiche/features


ø 10 M8 400 N



1-1 10000

peso/weight


7,5 kg



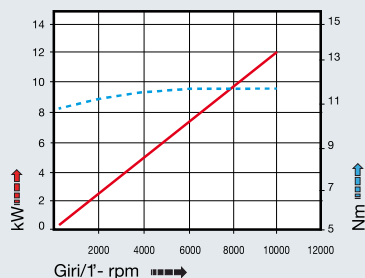
9,8 kg

rotazione/rotation


input



output

prestazioni/performances


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	250	35	65	-
	40			80	110
	45			80	110
	50			80	110
★ ANSIB5.50	40	258	45	65	-
	50			80	110
★ BT	40	258	45	65	-
	50			80	110
DIN69893	63	259	44	65	-
	80		46	80	110
	100		46	80	110
CAPTO	C5	254	39	65	-
	C6			80	110
	C8			80	110
KM	63	250	13	65	-
	80			80	110
	100			80	110
DIN2080	-	220	13	65	-
	40	223	16	80	110
	50	223	16	80	110
ANSIB5.18	40	220	13	65	-
	50	223	16	80	110

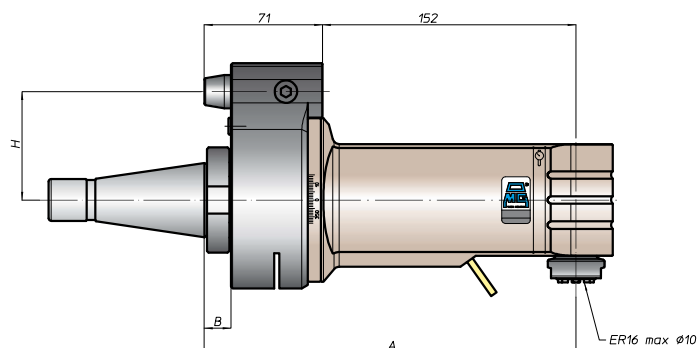
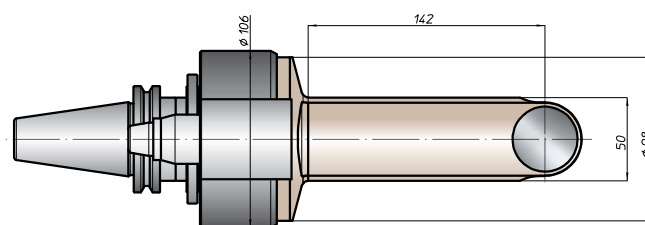
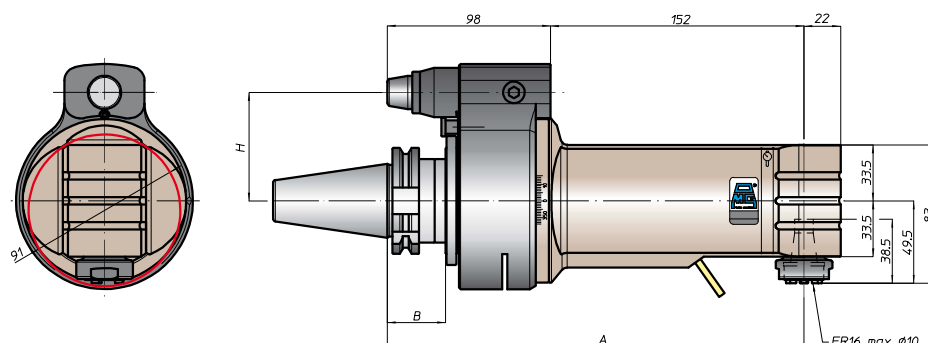
tipi mandrino disponibili / available spindle types

- 1** DIN6388-ER
2 Albero portafrese
Milling shaft
3 Weldon
Whistle-Notch

ER20

Ø16

Ø10

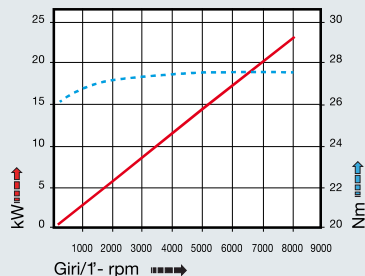


TA13.PL

caratteristiche/features

peso/weight

rotazione/rotation

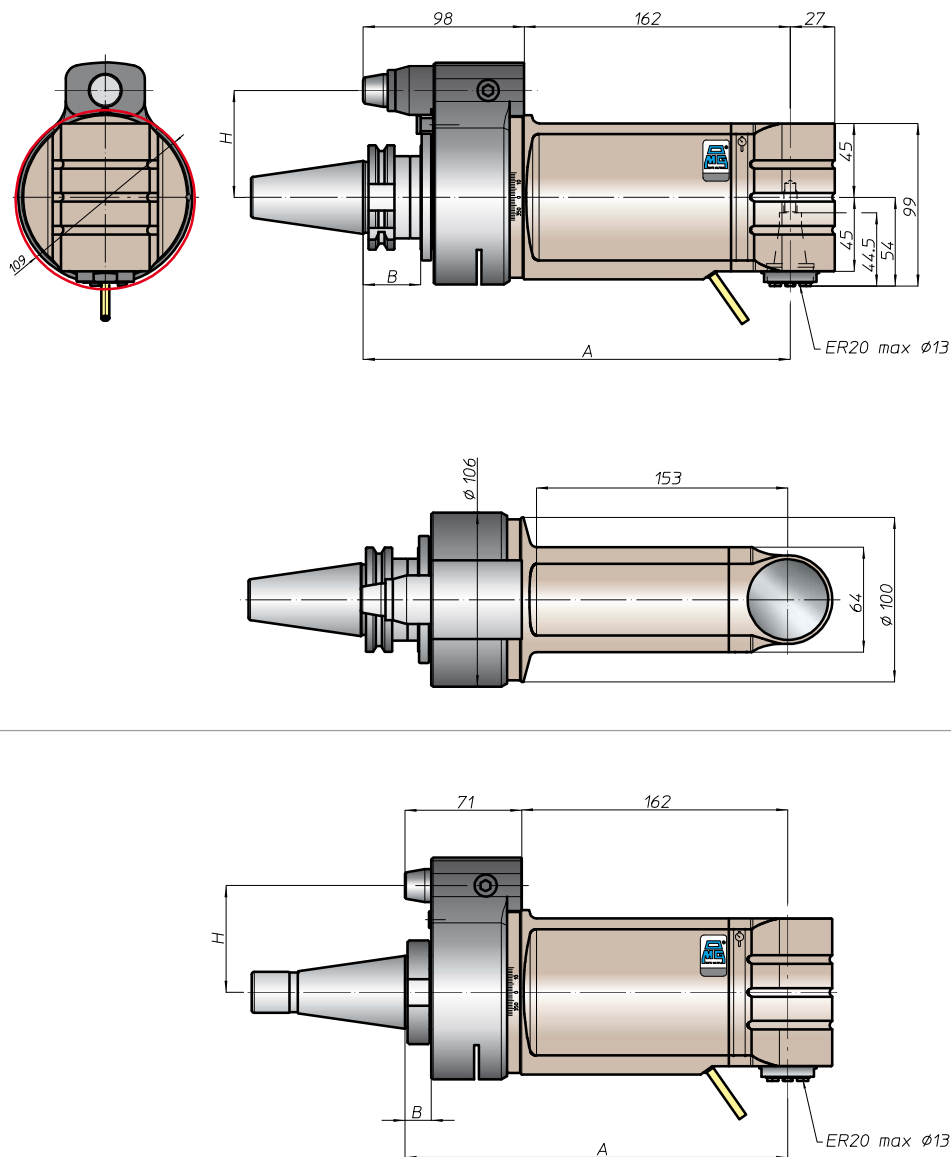
prestazioni/performances


CONO SHANK	size	A	B	standard	optional
DIN69871 *	-			65	-
	40				
	45			80	110
	50	260	35		
ANSI B5.50 *	40			65	-
	50			80	110
BT *	40			65	
	50	268	45	80	110
HSK	63		44	65	
DIN69893	80	269			
	100		46	80	110
CAPTO	C5			65	
ISO26623	C6	264	39		
	C8			80	110
KM	63			65	
	80	260			
	100			80	110
DIN2080	-	230	13	65	-
	40				
	-				
	50	233	16	80	110
NMTB	40	230	13	65	-
ANSI B5.18	50	233	16	80	110

tipi mandrino disponibili / available spindle types
1 DIN6388-ER

2 Albero portafresa
Milling shaft

3 Weldon
Whistle-Notch

ER25
Ø16-Ø22
Ø16




testa ad angolo - *angle head*

TA16.P

caratteristiche/features



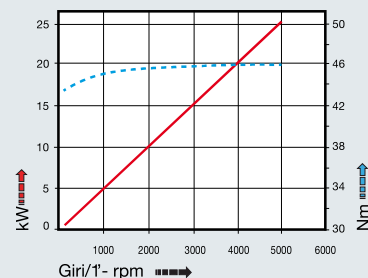
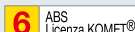
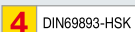
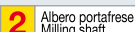
peso/weight



rotazione/rotation



```
prestazioni/performance
```

tipi mandrino disponibili / *available spindle types*

ER32

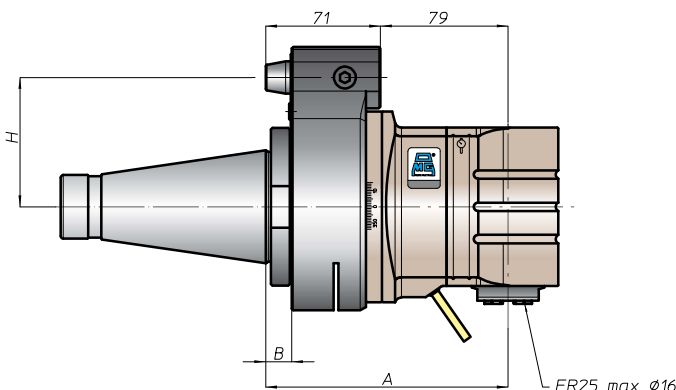
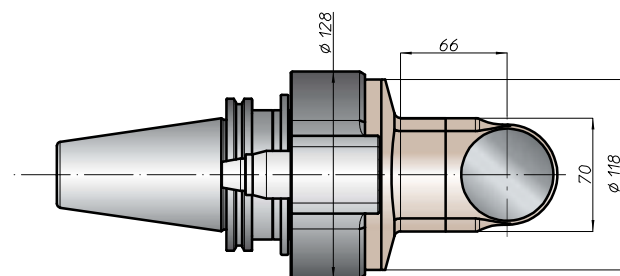
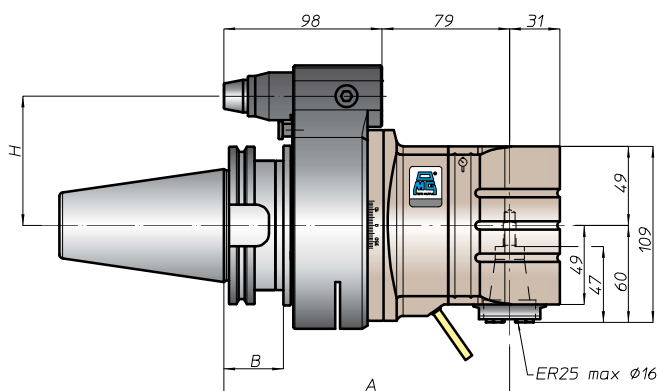
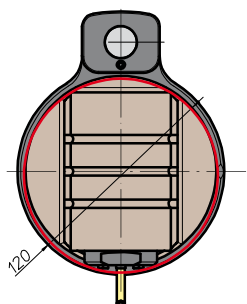
Ø16-Ø22-Ø27-Ø32

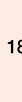
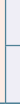
Ø20

HSK32

C3

ABS32



CONO SHANK	size	A	B	H	
				standard	optional
★ DIN9871 	-	172	35	65	-
	40	177		80	110
	45				
	50				
★ CAT ANSIB5,50 	40	172		65	-
	50	177		80	110
★ BT 	40	172		65	110
	50	185	45	80	
DIN69893 HSK 	63	181	44	65	110
	80	186	46	80	
	100				
ISO26623 CAPTO 	C5	176	39	65	110
	C6	181		80	
	C8				
KM 	63	172		65	110
	80	177		80	
	100				
DIN2080 	-	147	13	65	-
	40				
	-	150	16	80	110
	50				
ANSIB5,18 NMTB 	40	142	13	65	-
	50	150	16	80	110

* Option: Dual Contact

* Option: Dual Contact

TA20.P



caratteristiche/features



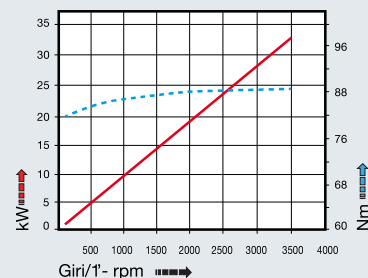
peso/weight



rotazione/rotation

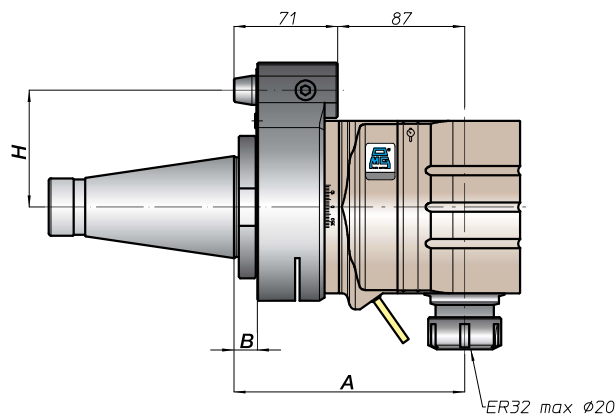
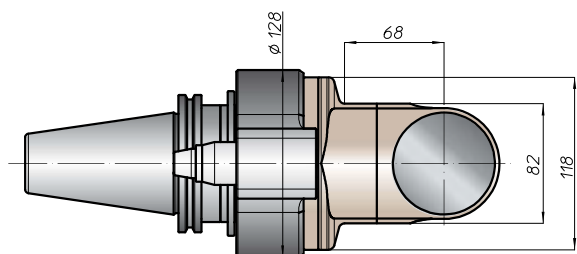
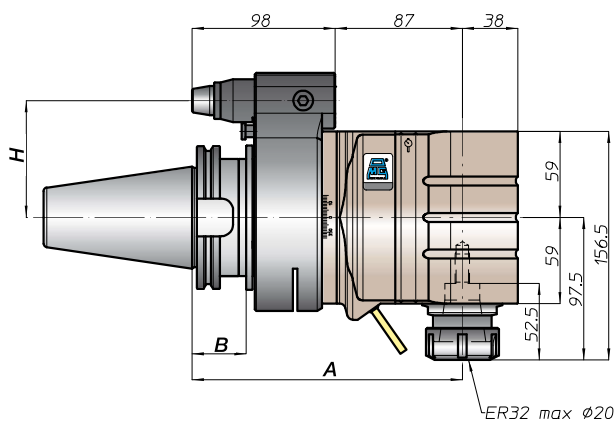
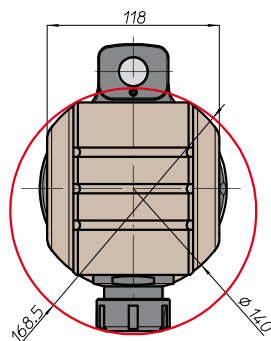


prestazioni/performance



tipi mandrino disponibili / available spindle types

1 DIN6388-ER	2 Albero portafresa Milling shaft	3 Weldon Whistle-Notch	4 DIN69893-HSK	5 COROMANT CAPTO®	6 ABS Licenza KOMET®
ER40	Ø22-Ø27-Ø32	Ø20-Ø25-Ø32	HSK40	C4	ABS40



CONO SHANK	size	H			
		A	B	standard	optional
DIN69871 *	-	185	35	-	-
	45			-	-
	50			80	110
ANSIB5.50 *	-	185	35	-	-
	50			80	110
BT *	-	193	45	-	-
	50			80	110
HSK DIN69893	-	194	46	-	-
	80			-	-
	100			80	110
CAPTO ISO26623	-	189	-	-	-
	-			-	-
	C8			80	110
KM	-	185	-	-	-
	80			-	-
	100			80	110
DIN2080	-	158	16	-	-
	-			-	-
	50			80	110
ANSIB5.18 NMTB	-	158	16	-	-
	50			80	110

* Option: Dual Contact

TA20.PL


caratteristiche/features

peso/weight

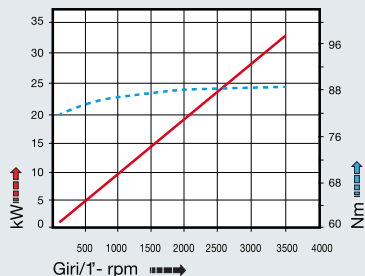

19 kg

rotazione/rotation


input



output

prestazioni/performances


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	260	35	-	-
	45			-	-
	50			80	110
★ CAT	-	260	35	-	-
	50			80	110
★ BT	-	268	45	-	-
	50			80	110
HSK	-	269	46	-	-
	80			-	-
	100			80	110
CAPTO	-	264	16	-	-
	-			-	-
	C8			80	110
KM	-	260	16	-	-
	80			-	-
	100			80	110
DIN2080	-	233	16	-	-
	-			-	-
	50			80	110
ANSIB5.18 NMTB	-	233	16	-	-
	50			80	110

tipi mandrino disponibili / available spindle types
1 DIN6388-ER

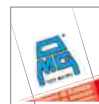
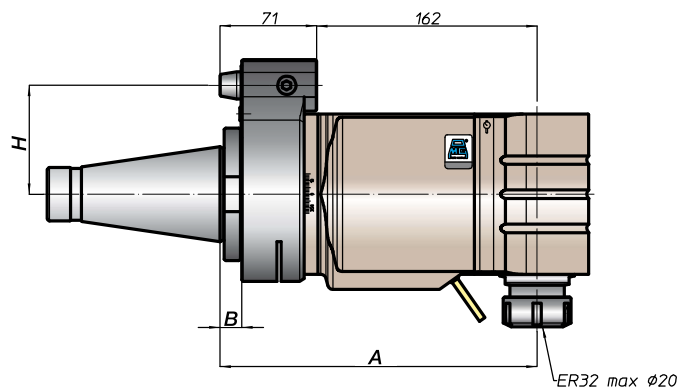
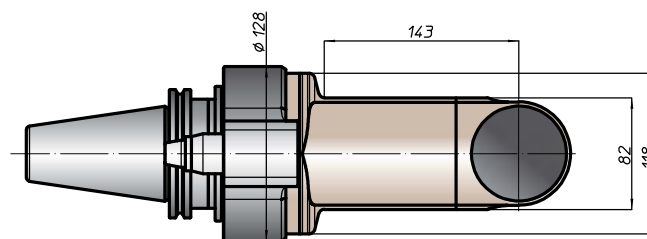
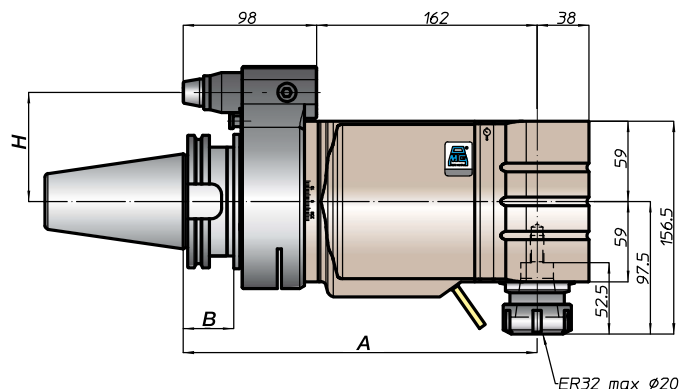
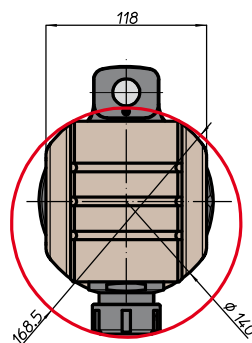
ER40
2 Albero portafresa

Ø22-Ø27-Ø32
3 Weldon

Ø20-Ø25-Ø32
4 DIN69893-HSK

HSK40
5 COROMANT

C4
6 ABS

ABS40


TA Extended Gallery



TA20.30


caratteristiche/features


ø 20 M14 1460 N



1-1 3500

peso/weight

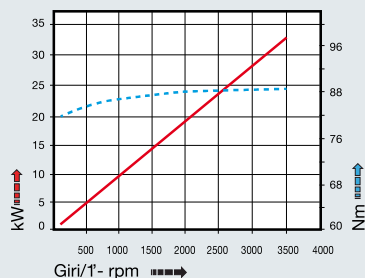

14,7 kg

rotazione/rotation


input

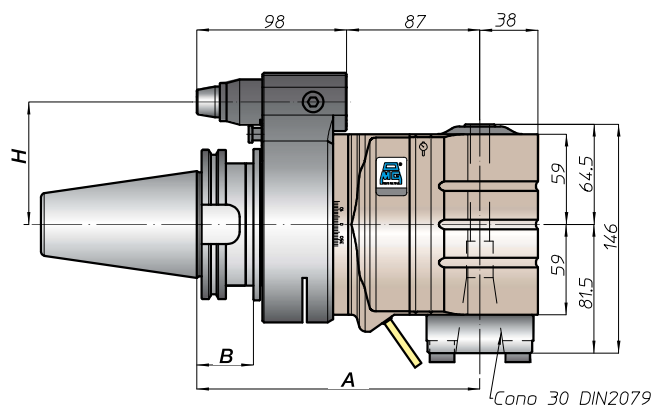
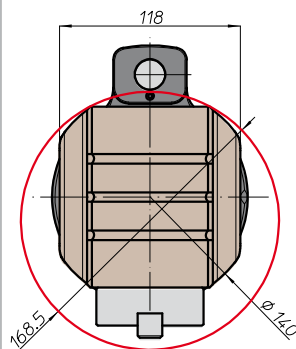


output

prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
* DIN69871	-	185	35	-	-
	45			-	-
	50			80	110
* CAT	-	193	45	65	-
	50			80	110
* BT	-			-	-
HSK	-	194	46	80	110
	80			-	-
	100			-	-
CAPTO	-	189	-	-	-
	-			80	110
	C8			-	-
KM	-	185	-	-	-
	80			80	110
	100			-	-
DIN2080	-	158	16	-	-
	-			80	110
	50			-	-
NMTB	-	158	16	-	-
	50			80	110

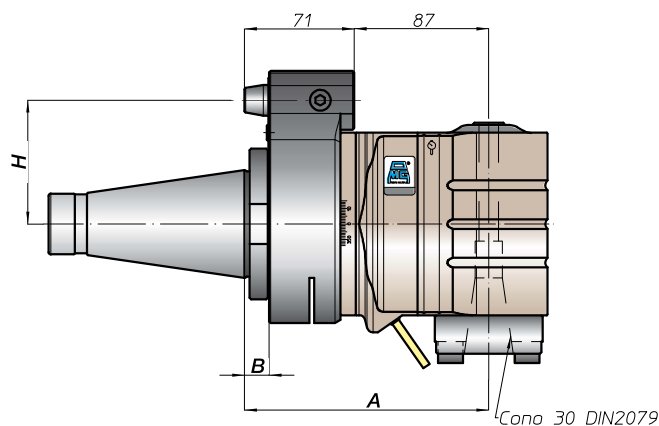
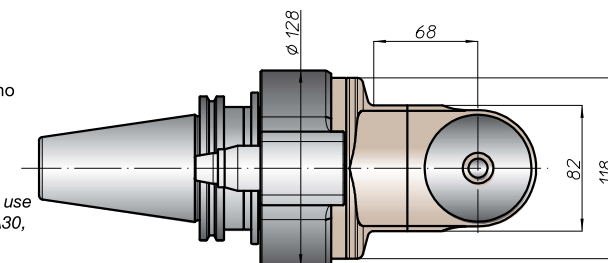
* Option: Dual Contact


Nota:

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

Note:

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



FH

BAH

TA-CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA26.P



caratteristiche/features



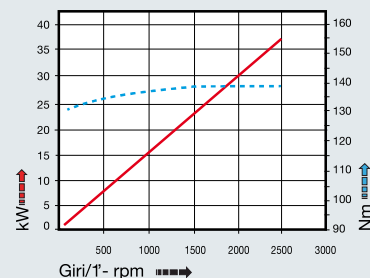
peso/weight



rotazione/rotation

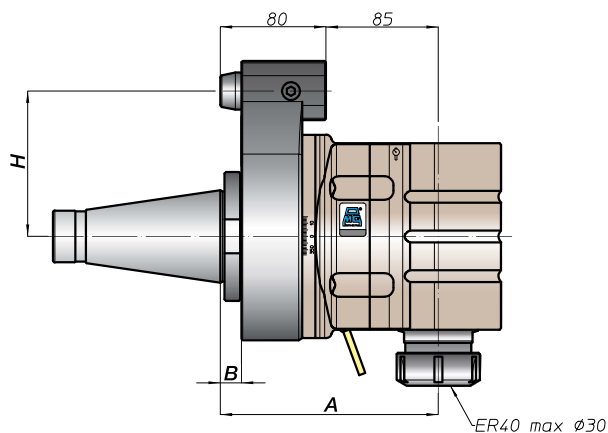
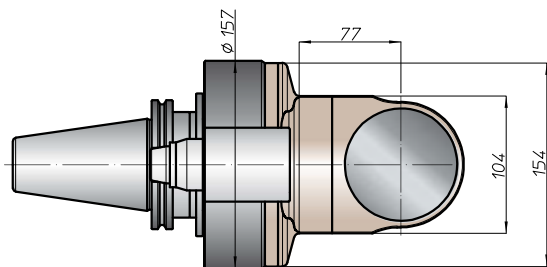
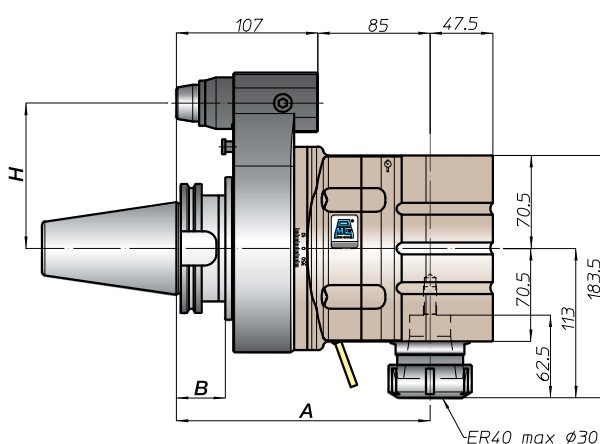
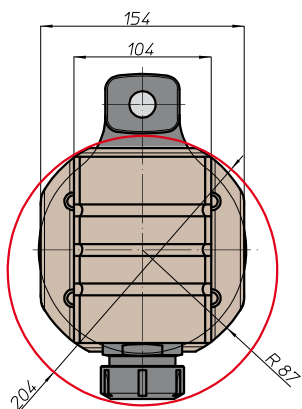


prestazioni/performance



tipi mandrino disponibili / available spindle types

2 Albero portafrese Milling shaft	3 Weldon Whistle-Notch	4 DIN69893-HSK	5 COROMANT CAPTO®	6 ABS Licenza KOMET®
Ø16-Ø27-Ø32	Ø32	HSK63	C4	ABS50



CONO SHANK	size	A	B	H standard	optional
DIN69871 *	-	-	-	-	-
	45	192	35	110	-
	50	-	-	-	-
ANSIB5.50 *	-	-	-	-	-
	50	-	-	110	-
BT *	-	-	-	-	-
	50	200	45	110	-
HSK	-	-	-	-	-
DIN69893	-	-	-	-	-
	80	201	46	110	-
	100	-	-	-	-
CAPTO	-	-	-	-	-
ISO26623	-	196	-	-	-
	-	-	-	110	-
C8	-	-	-	-	-
KM	-	-	-	-	-
	-	192	-	-	-
	100	-	-	110	-
DIN2080	-	-	-	-	-
	-	-	-	-	-
	-	165	16	110	-
	50	-	-	-	-
ANSIB5.18 NMTB	-	-	-	-	-
	50	165	16	110	-

* Option: Dual Contact

TA26.40

caratteristiche/features


ø 26 M20 3020 N



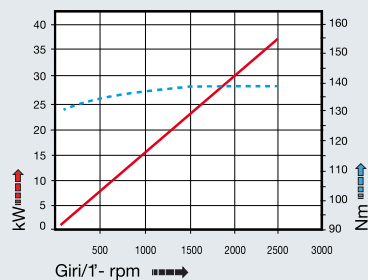
1-1 2500

peso/weight


22 kg

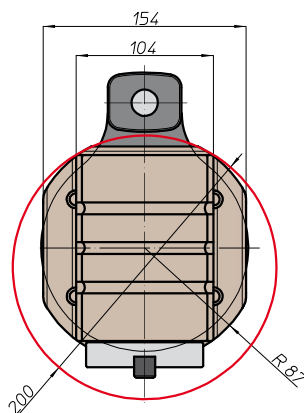
rotazione/rotation


input output

prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	192	35	-	-
	45			110	-
	50			110	-
★ CAT	-	200	45	-	-
	50			110	-
	50			110	-
★ BT	-	201	46	-	-
	50			110	-
	50			110	-
HSK	-	196	16	-	-
	80			110	-
	100			110	-
CAPTO	-	165	16	-	-
	50			110	-
	50			110	-
KM	-	165	16	-	-
	50			110	-
	50			110	-
DIN2080	-	165	16	-	-
	50			110	-
	50			110	-
NMTB	-	165	16	-	-
	50			110	-
	50			110	-

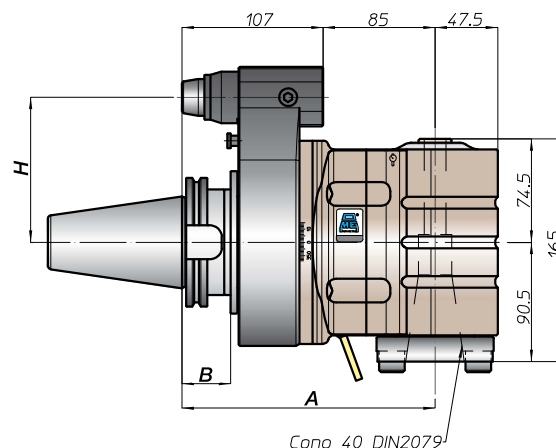
★ Option: Dual Contact


Nota:

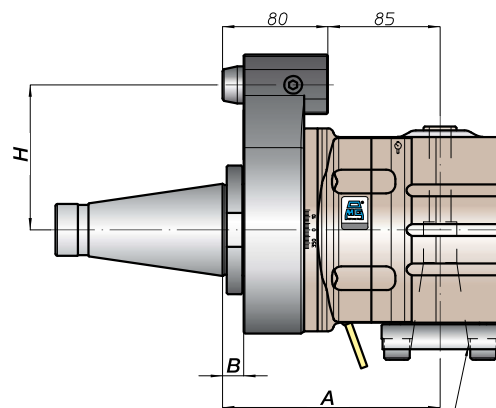
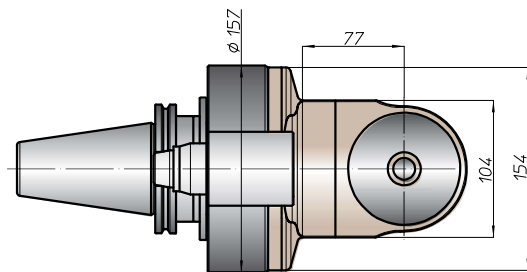
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

Note:

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



Cono 40 DIN2079



Cono 40 DIN2079

FH

BAH

TA-CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA07.2P



caratteristiche/features



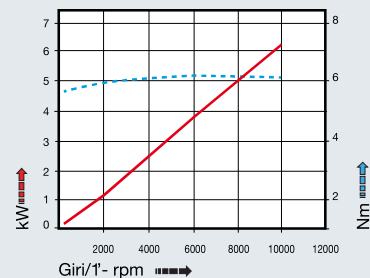
peso/weight



rotazione/rotation

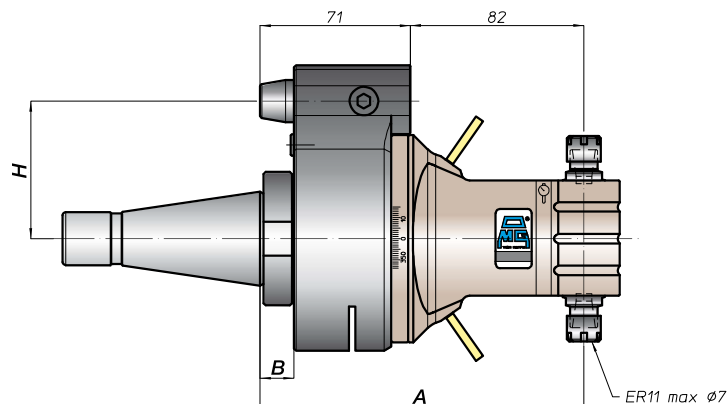
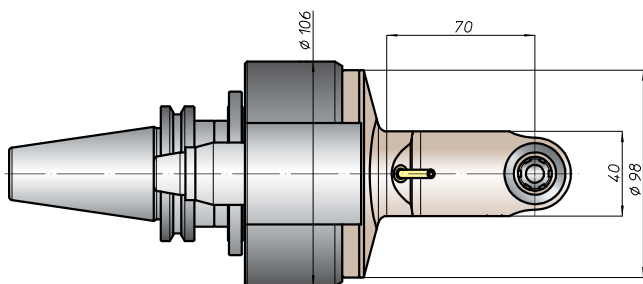
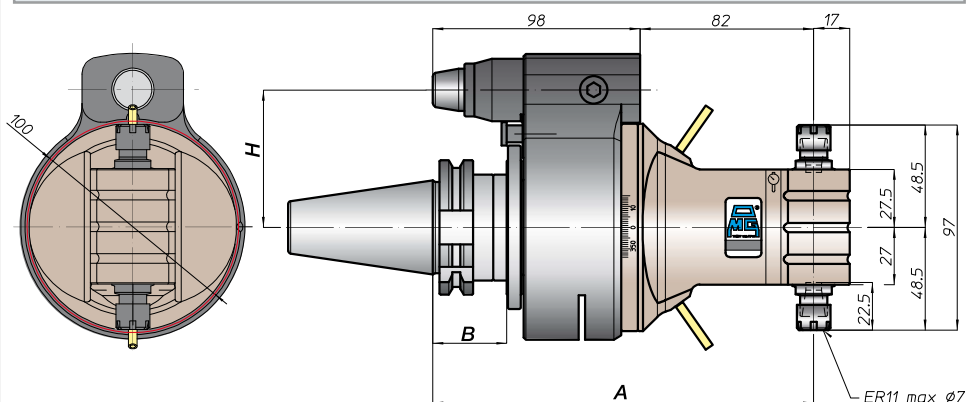


prestazioni/performance



tipi mandrino disponibili / available spindle types

3 Weldon
Whistle-Notch
 $\varnothing 10$



CONO SHANK	size	H			
		A	B	standard	optional
DIN69871 *	30	180	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	188	45	65	-
	50			80	110
* BT	40	188	45	65	-
	50			80	110
HSK	63	189	46	65	-
	80			80	110
	100			80	110
CAPTO	C5	184	39	65	-
	C6			80	110
	C8			80	110
KM	63	180	13	65	-
	80			80	110
	100			80	110
DIN2080	-	150	16	65	-
	40			80	110
	-			80	110
	50			80	110
ANSIB5.18 NMTB	40	150	13	65	-
	50			80	110

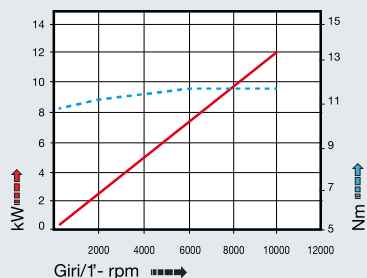
* Option: Dual Contact

TA10.2P

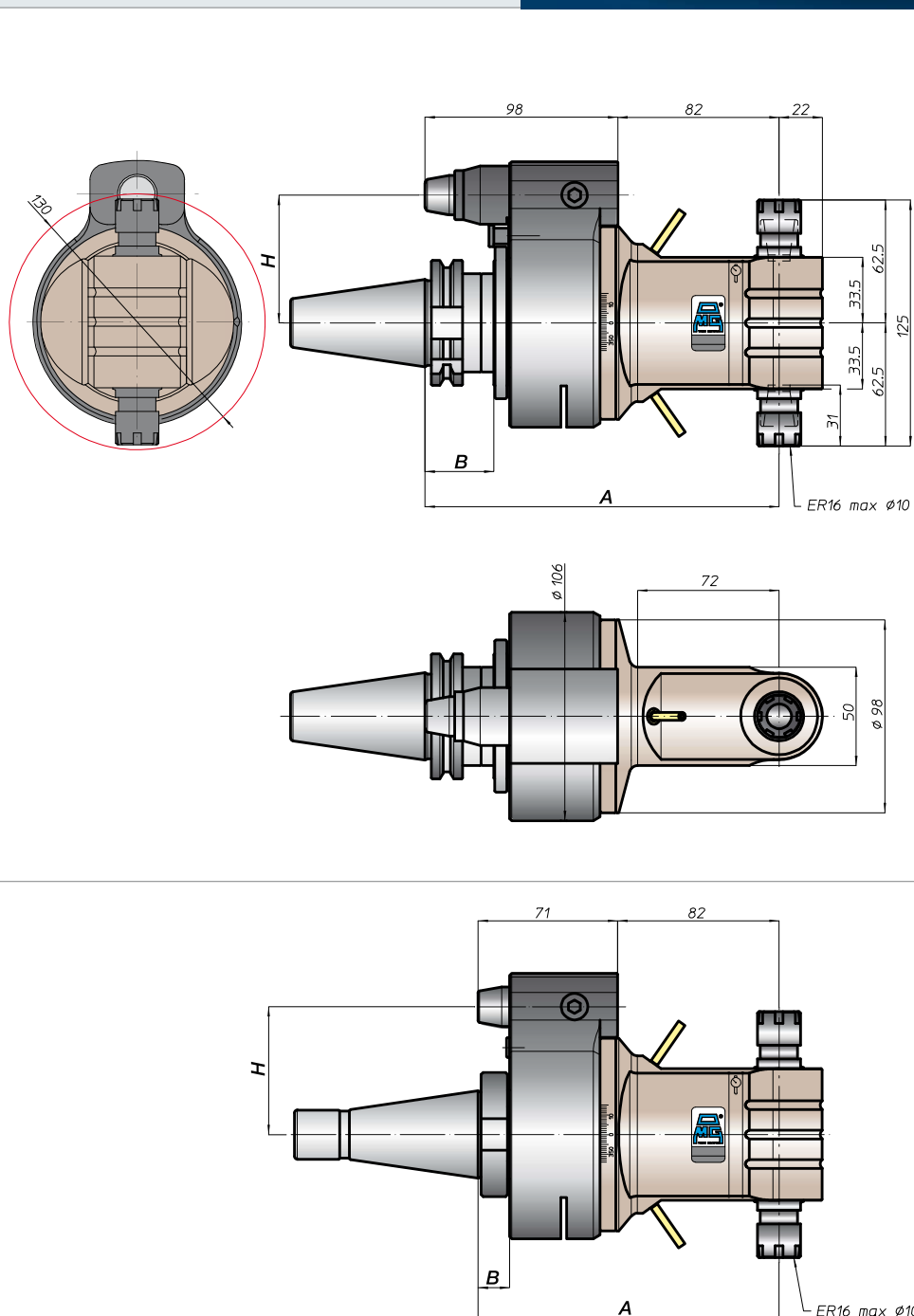
caratteristiche/features

peso/weight

rotazione/rotation

prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	30	180	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	188	45	65	-
	50			80	110
BT *	40	188	45	65	-
	50			80	110
HSK	63	189	44	65	-
	80		46	80	110
	100		46	80	110
CAPTO	C5	184	39	65	-
	C6			80	110
	C8			80	110
KM	63	180	35	65	-
	80			80	110
	100			80	110
DIN2080	-	150	13	65	-
	40	153	16	80	110
	50	153	16	80	110
ANSIB5.18 NMTB	40	150	13	65	-
	50	153	16	80	110



★ Option: Dual Contact



FH

BAH

TA-CP

TA

MO

HT

VH

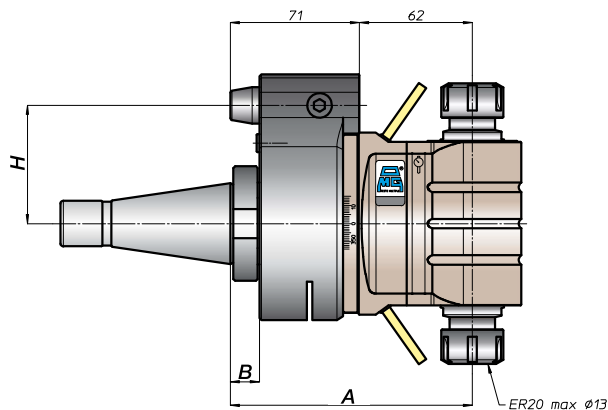
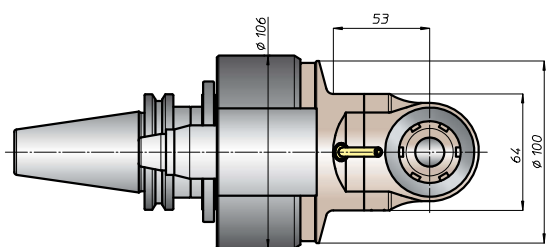
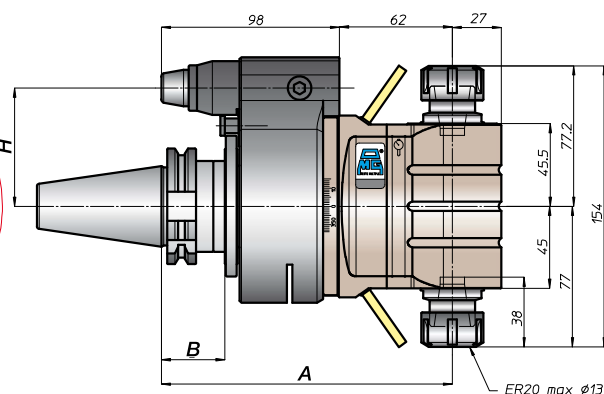
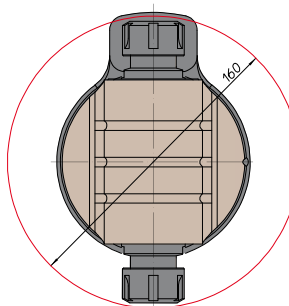
TSI/TSX

T

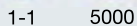
MT-TC-TC3

Accessori
Accessories

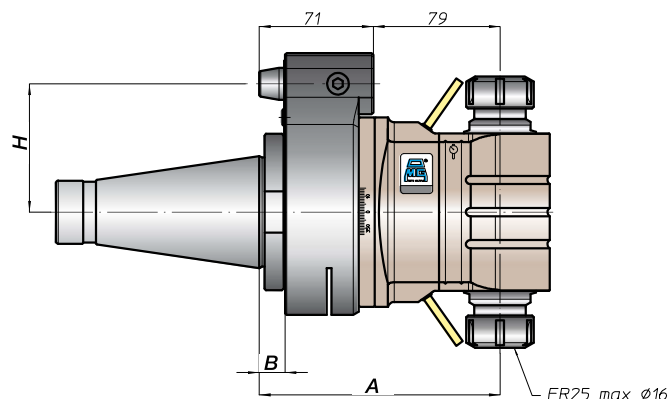
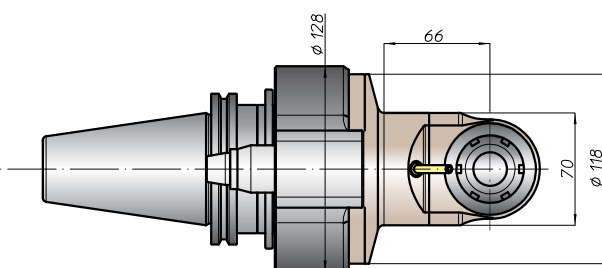
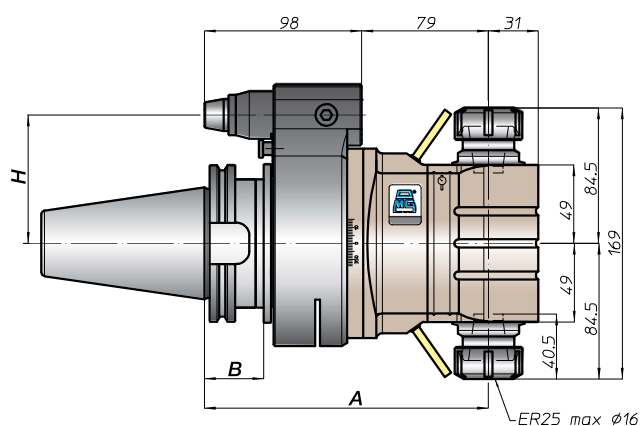
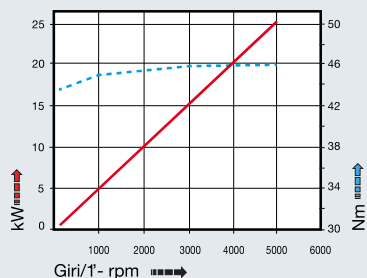
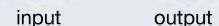
Appendice tecnica
Technical supplement



```
prestazioni/performances
```



rotazione/rotation



TA20.2P



caratteristiche/features



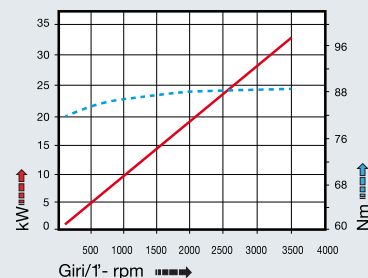
peso/weight



rotazione/rotation



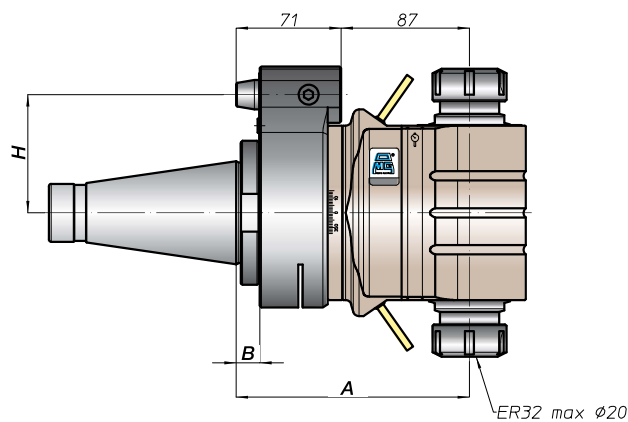
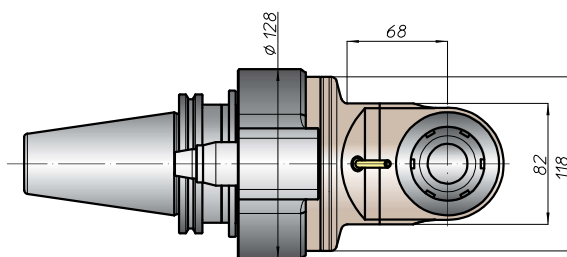
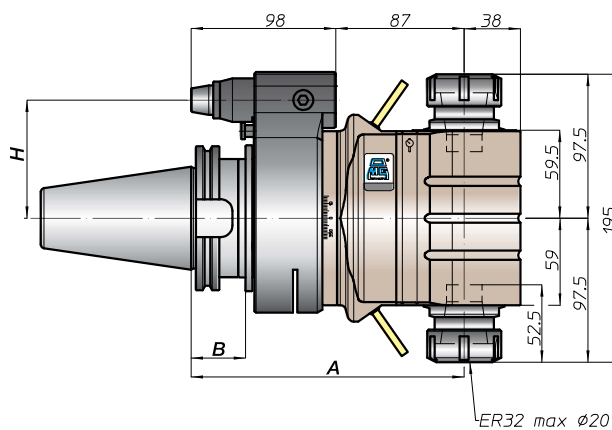
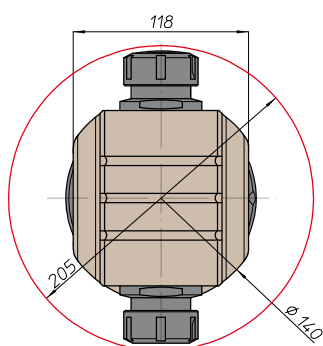
prestazioni/performance



tipi mandrino disponibili / available spindle types

2 Albero portafresa
Milling shaft
Ø32

3 Weldon
Whistle-Notch
Ø20



CONO SHANK	size	H			
		A	B	standard	optional
DIN69871 *	-	185	35	-	-
	45			-	-
	50			80	110
ANSIB5.50 *	-	185	35	-	-
	50			80	110
BT *	-	193	45	-	-
	50			80	110
HSK	-	194	46	-	-
	80			-	-
	100			80	110
CAPTO	-	189	-	-	-
	-			-	-
	C8			80	110
KM	-	185	-	-	-
	80			-	-
	100			80	110
DIN2080	-	158	16	-	-
	-			-	-
	50			80	110
ANSIB5.18 NMTB	-	158	16	-	-
	50			80	110

* Option: Dual Contact



TA07.PD



caratteristiche/features



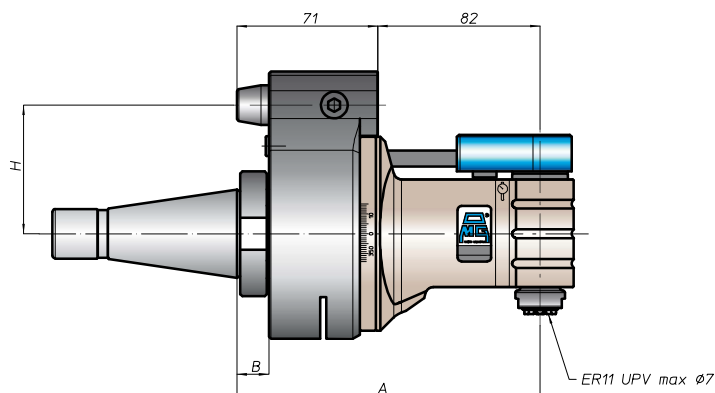
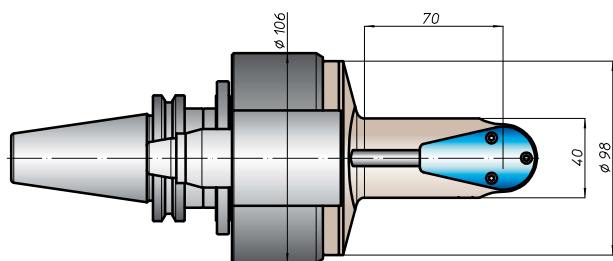
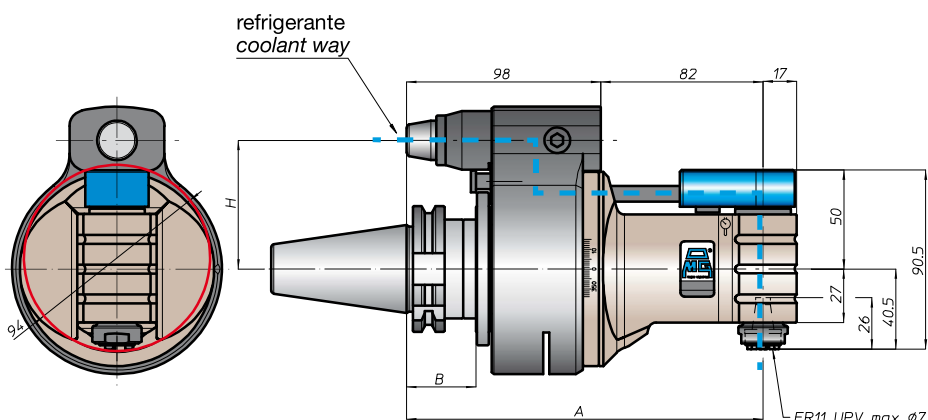
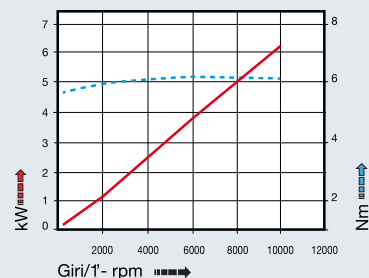
peso/weight



rotazione/rotation



prestazioni/performance



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	30	150	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	159	46	65	-
	50			80	110
* BT	40	158	45	65	-
	50			80	110
DIN69893	63	150	39	65	-
	80			80	110
	100			80	110
CAPTO ISO26623	C5	154	39	65	-
	C6			80	110
	C8			80	110
KM	63	150	13	65	-
	80			80	110
	100			80	110
DIN2080	-	120	16	65	-
	40			80	110
	-			80	110
	50			80	110
ANSIB5.18 NMTB	40	120	13	65	-
	50			80	110

* Option: Dual Contact

TA07.PDL



caratteristiche/features



ø 7 M6 180 N



1-1 10000 10 bar

peso/weight



6,7 kg



9 kg

rotazione/rotation

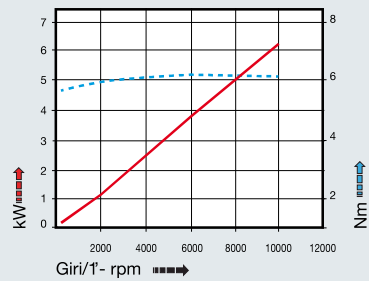


input

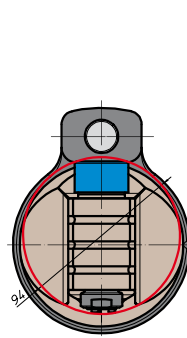


output

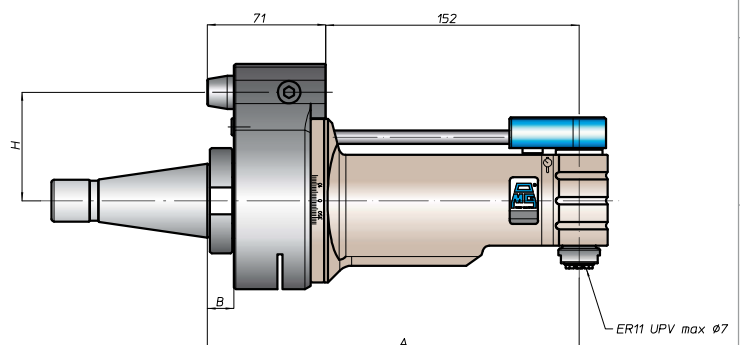
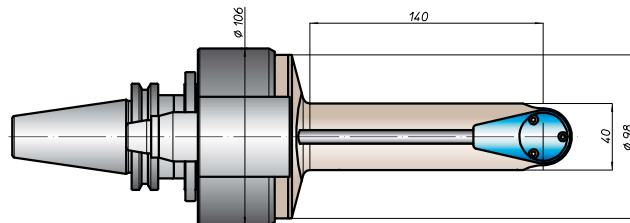
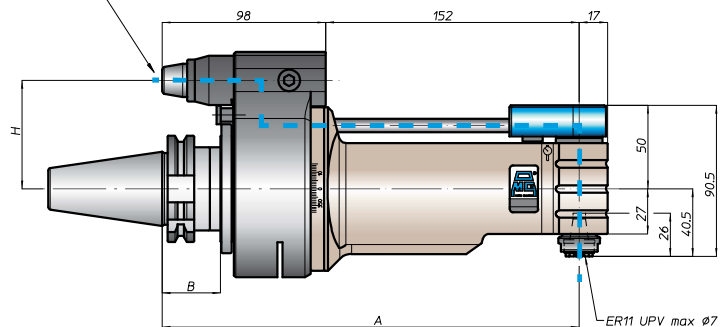
prestazioni/performance



CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	250	35	65	-
	40			80	110
	45			80	110
★ CAT	40	250	35	65	-
	50			80	110
★ BT	40	258	45	65	-
	50			80	110
DIN69893	63	259	44	65	-
	80		46	80	110
	100		46	80	110
ISO26623	C5	254	39	65	-
	C6			80	110
	C8			80	110
KM	63	250	35	65	-
	80			80	110
	100			80	110
DIN2080	-	220	13	65	-
	40	220	13	65	-
	50	223	16	80	110
ANSIB5.18	40	220	13	65	-
	50	223	16	80	110



refrigerante
coolant way



TA10.PD



caratteristiche/features



ø 10



M8



400 N



1-1



10000



10 bar

peso/weight



5,8 kg



8 kg

rotazione/rotation

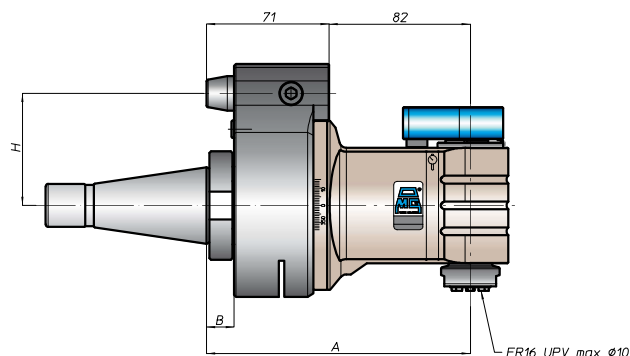
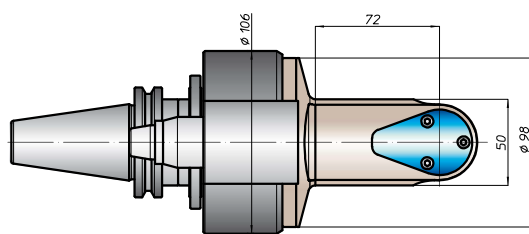
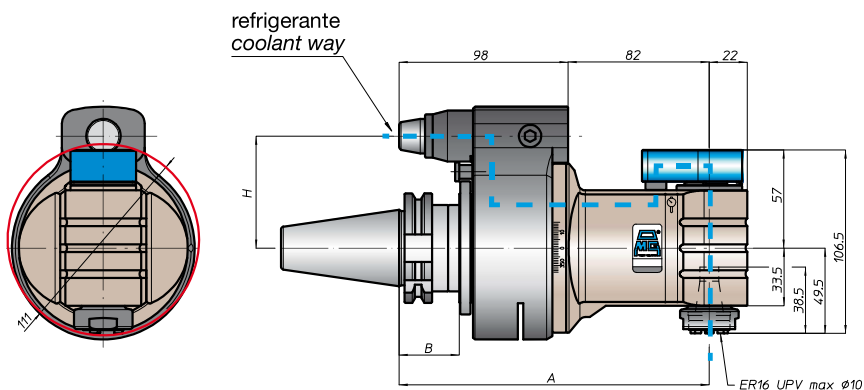
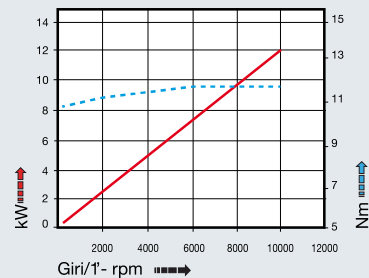


input



output

prestazioni/performance



CONO SHANK	size	H			
		A	B	standard	optional
DIN69871 *	30	180	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	188	45	65	-
	50			80	110
* BT	40	188	45	65	-
	50			80	110
DIN69893	HSK 63	189	44	65	-
	80		46	80	110
	100		46	80	110
ISO26623	C5	184	39	65	-
	C6			80	110
	C8			80	110
KM	63	180	13	65	-
	80			80	110
	100			80	110
DIN2080	-	150	16	65	-
	40			80	110
	-			80	110
	50			80	110
ANSIB5.18	40	150	13	65	-
	50			80	110

* Option: Dual Contact

TA10.PDL

caratteristiche/features



ø 10 M8 400 N



1-1 10000 10 bar

peso/weight



7,7 kg



10 kg

rotazione/rotation

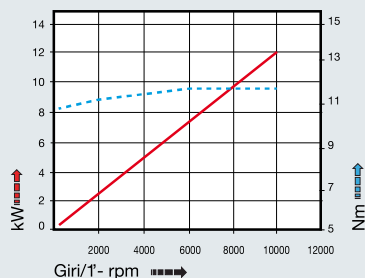


input

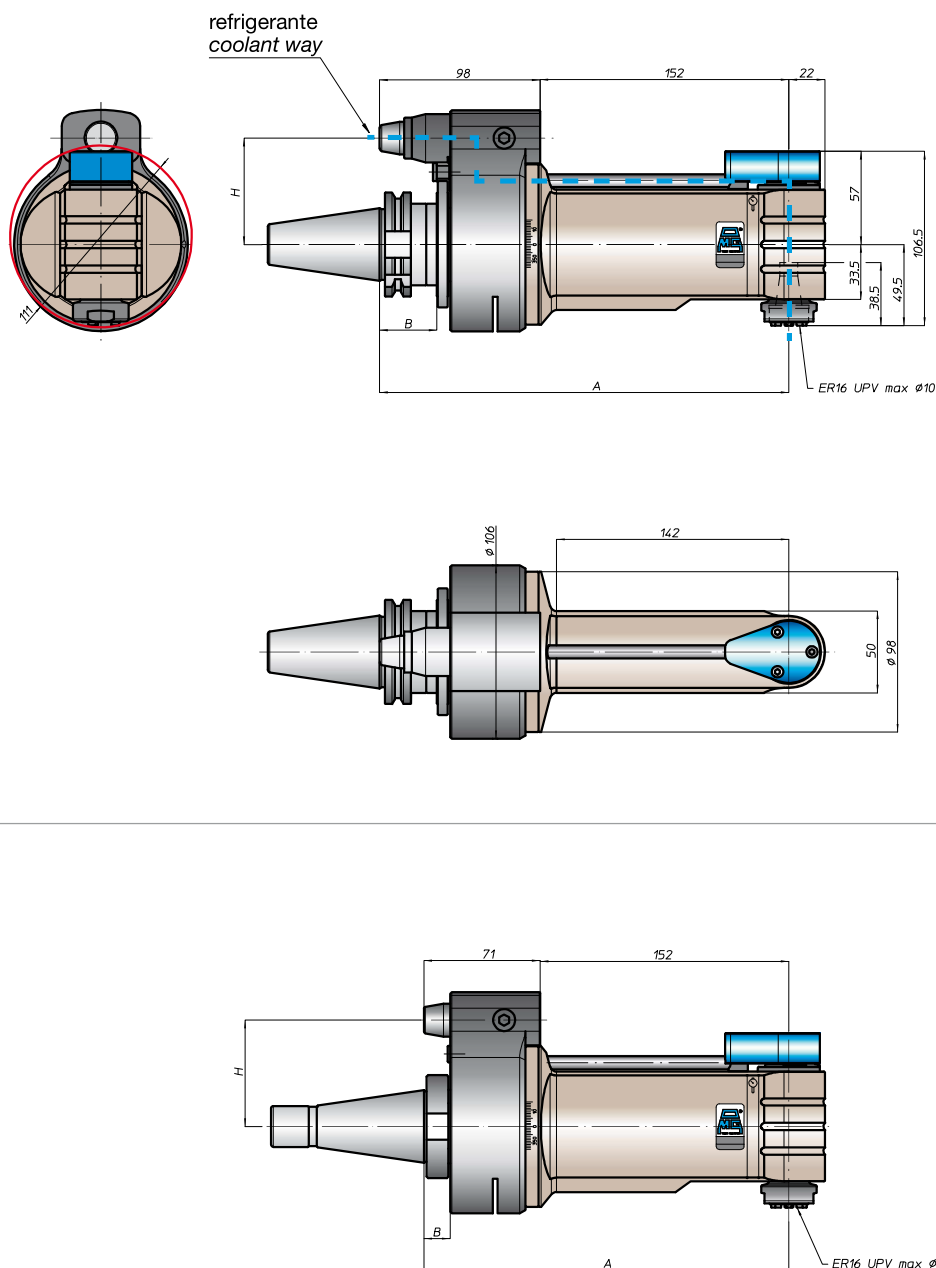


output

prestazioni/performance



CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	250	35	65	-
	40			80	110
	45			80	110
★ CAT	40	258	45	65	-
	50			80	110
★ BT	40	258	45	65	-
	50			80	110
DIN69893	63	259	46	65	-
	80			80	110
	100			80	110
ISO26623	C5	284	39	65	-
	C6			80	110
	C8			80	110
KM	63	250	13	65	-
	80			80	110
	100			80	110
DIN2080	-	220	16	65	-
	40			80	110
	50			80	110
ANSIB5.18 NMTB	40	220	13	65	-
	50			80	110



★ Option: Dual Contact



FH

BAH

TA-CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

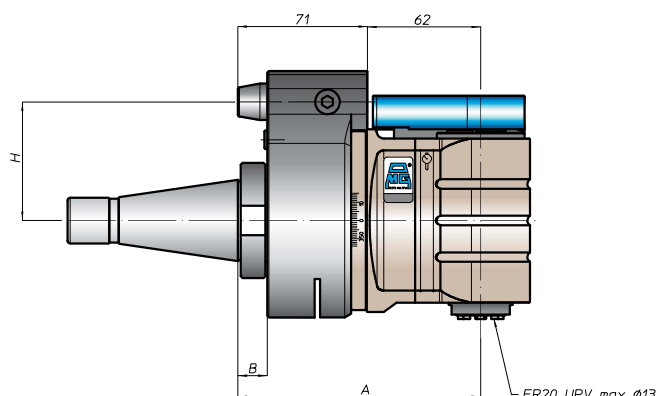
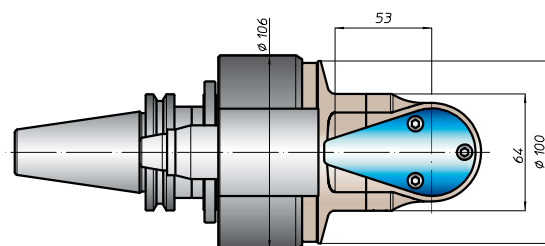
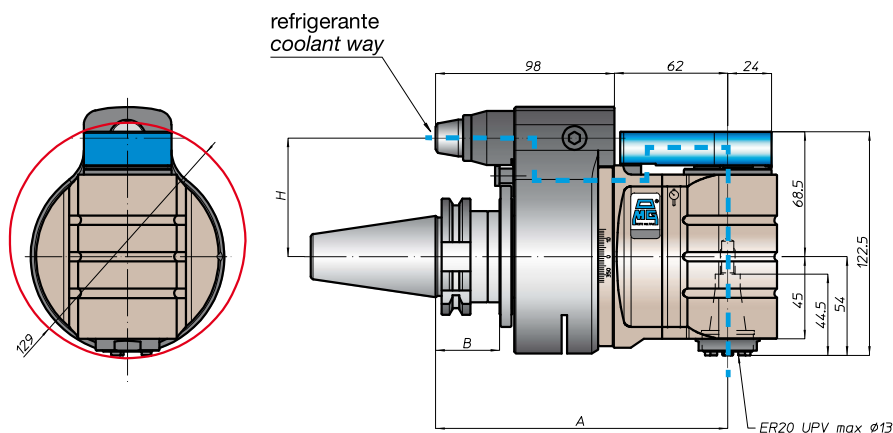
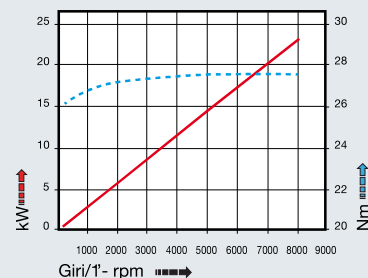
Appendice tecnica
Technical supplement

TA13.PD


caratteristiche/features

peso/weight

rotazione/rotation

prestazioni/performance


CONO SHANK	size	H			
		A	B	standard	optional
DIN9871 *	-	160	35	65	-
	40			80	110
	45			80	110
ANSIB5.50 *	40	168	45	65	-
	50			80	110
BT *	40	168	45	65	-
	50			80	110
HSK	63	169	44	65	-
	80		46	80	110
	100		46	80	110
CAPTO	C5	164	39	65	-
	C6			80	110
	C8			80	110
KM	63	160	13	65	-
	80			80	110
	100			80	110
DIN2080	-	130	16	65	-
	40			80	110
	50			80	110
ANSIB5.18	40	130	13	65	-
	50			80	110

* Option: Dual Contact

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement


TA16.PD


caratteristiche/features


ø 16 M12 1040 N



1-1 5000 10 bar

peso/weight


7,7 kg



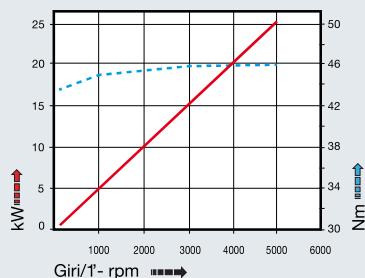
12 kg

rotazione/rotation


input



output

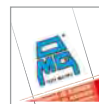
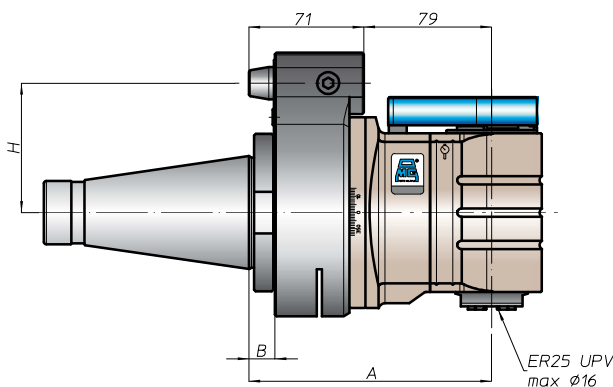
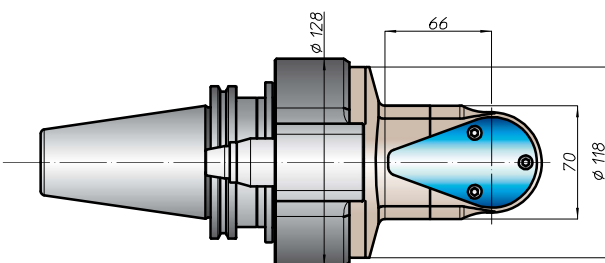
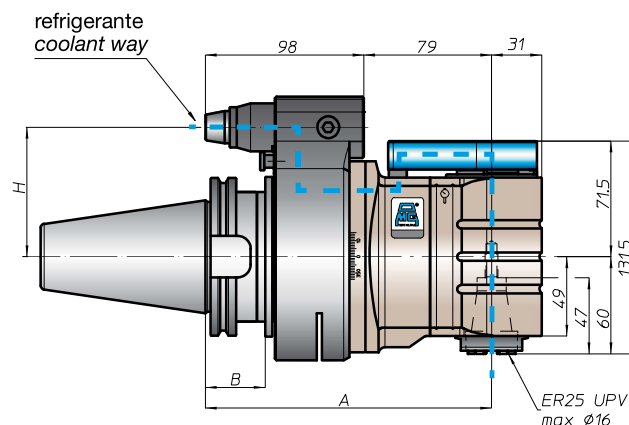
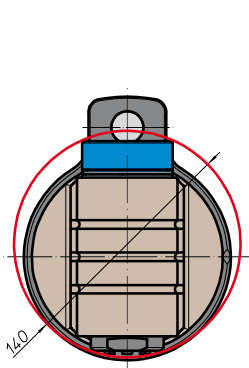
prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	172	35	65	-
	40				
	45				
	50	177		80	110
★ ANSIB5.50	40	172	35	65	-
	50	177		80	110
★ BT	40	172	35	65	-
	50	185		80	110
DIN69893	HSK	63	181	44	65
		80			
		100	186	46	80 110
ISO26623	CAPT	C5	176	39	65
		C6			
		C8	181		80 110
KM		63	172	35	65
		80			
		100	177		80 110
DIN2080	-	147	13	65	-
	40				
	50	150	16	80	110
ANSIB5.18	40	142	13	65	-
	50	150	16	80	110

tipi mandrino disponibili / available spindle types

1 DIN6388-ER

ER32



TA20.PD



caratteristiche/features



ø 20 M14 1460 N



1-1 3500 10 bar

peso/weight



14,5 kg

rotazione/rotation

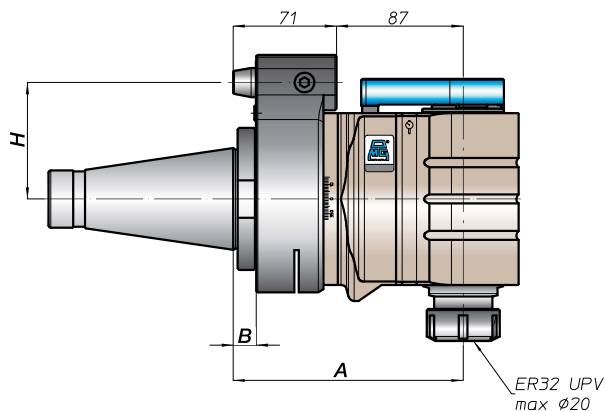
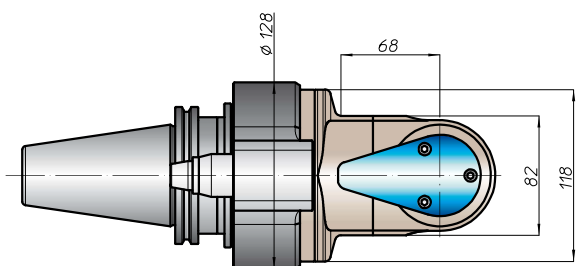
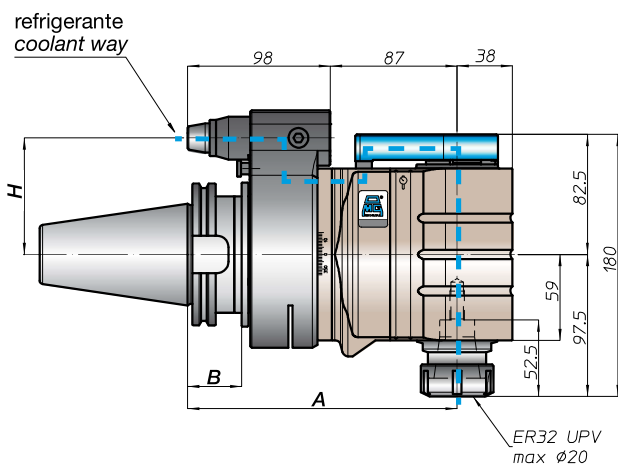
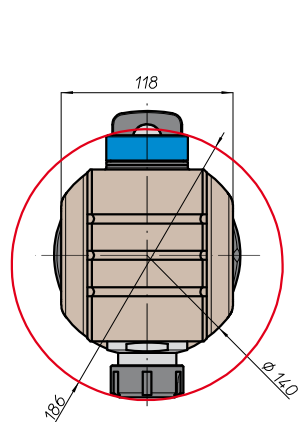
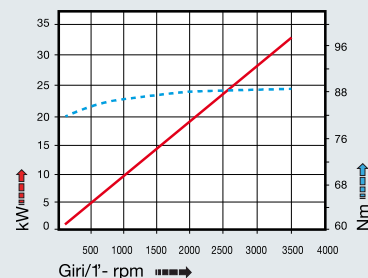


input



output

prestazioni/performance



CONO SHANK	size	H			
		A	B	standard	optional
DIN69871 *	-	185	35	-	-
	45			80	110
	50			80	110
ANSIB5.50 *	-	185	35	-	-
	50			80	110
BT *	-	193	45	-	-
	50			80	110
HSK	-	194	46	-	-
	80			80	110
	100			80	110
CAPTO	-	189	16	-	-
	-			80	110
	C8			80	110
KM	-	185	16	-	-
	80			80	110
	100			80	110
DIN2080	-	158	16	-	-
	-			80	110
	50			80	110
ANSIB5.18 NMTB	-	158	16	-	-
	50			80	110

* Option: Dual Contact

TA26.PD


caratteristiche/features


ø 26 M20 3020 N



1-1 2500 10 bar

peso/weight

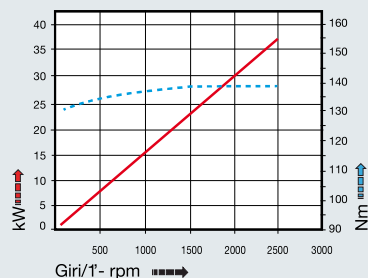

22 kg

rotazione/rotation

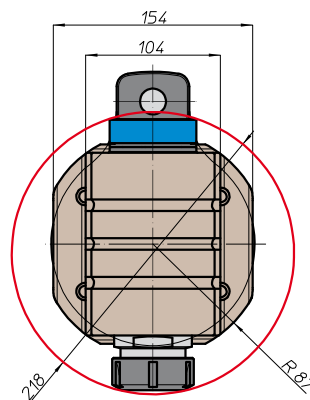

input



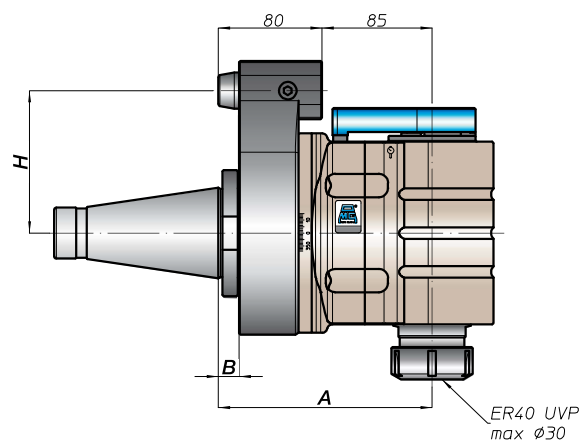
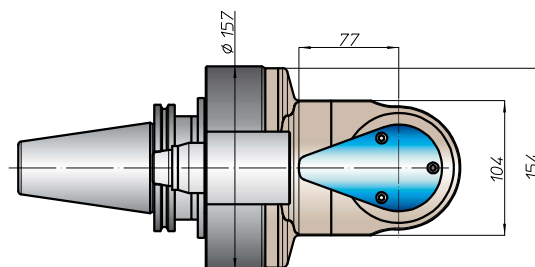
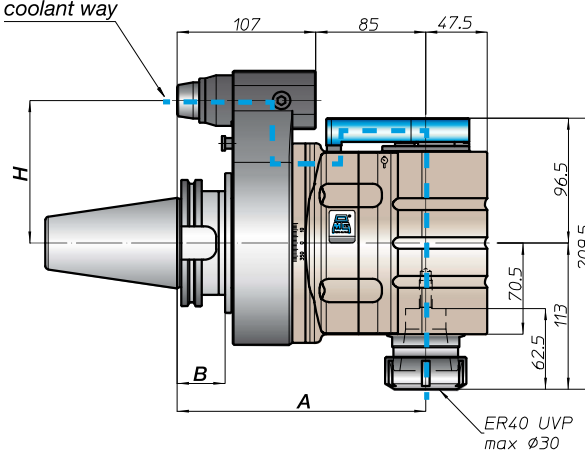
output

prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	192	37	-	-
	45			110	-
	50			110	-
★ CAT	-	200	45	-	-
	50			110	-
	50			110	-
★ BT	-	201	46	-	-
	50			110	-
	50			110	-
HSK	-	196	16	-	-
	80			110	-
	100			110	-
CAPTO	-	165	16	-	-
	50			110	-
	50			110	-
NMTB	-	165	16	-	-
	50			110	-
	50			110	-



refrigerante
coolant way



★ Option: Dual Contact

FH

BAH

TA-CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

FH

BAH

TA-CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

4-46

testa ad angolo - angle head

TA26.40.D

caratteristiche/features



ø 26



M20



3020 N



1-1



2500



40 bar

peso/weight



22 kg

rotazione/rotation

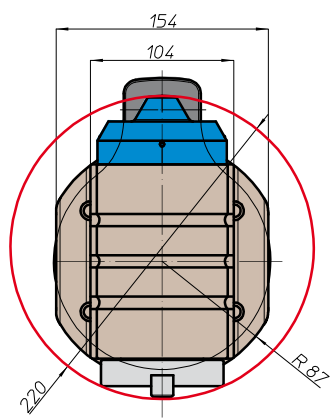
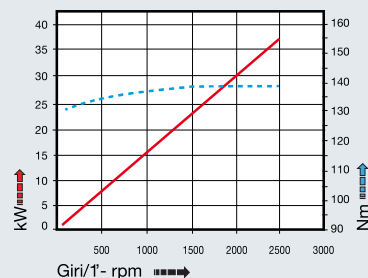
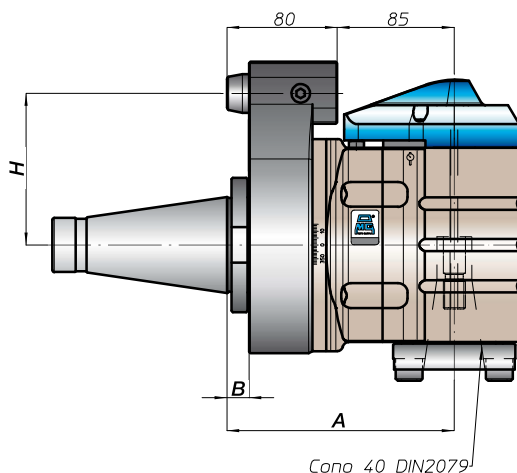
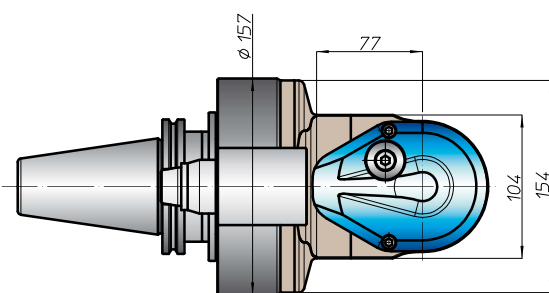
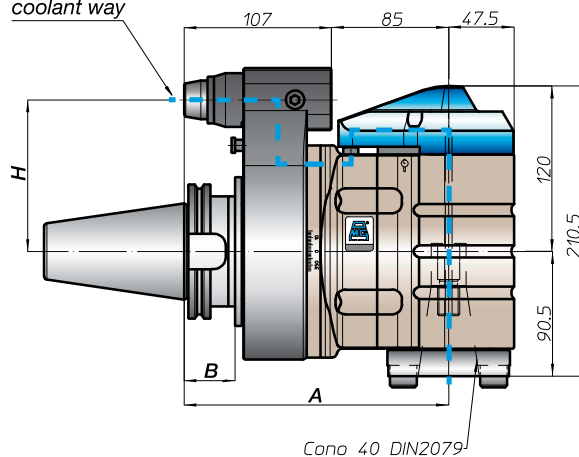


input



output

prestazioni/performance

refrigerante
coolant way

CONO SHANK	size	H		standard	optional
		A	B		
DIN69871 *	-	192	37	-	-
	45			110	-
	50			-	-
ANSIB5.50 *	-	196	16	-	-
	50			110	-
BT *	-	200	45	-	-
	50			110	-
HSK	-	201	46	-	-
	80			110	-
	100			-	-
CAPTO	-	196	16	-	-
	-			110	-
	C8			-	-
KM	-	192	16	-	-
	-			110	-
	100			-	-
DIN2080	-	165	16	-	-
	-			110	-
	50			-	-
ANSIB5.18 NMTB	-	165	16	-	-
	50			110	-

* Option: Dual Contact



FH

BAH

TA-CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement



testa ad angolo - *angle head*

TAO10.P



caratteristiche/features



peso/weight



6,2 kg



8,7 kg

rotazione/rotation

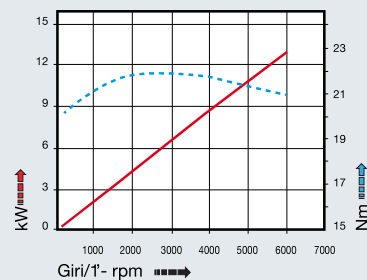


input



output

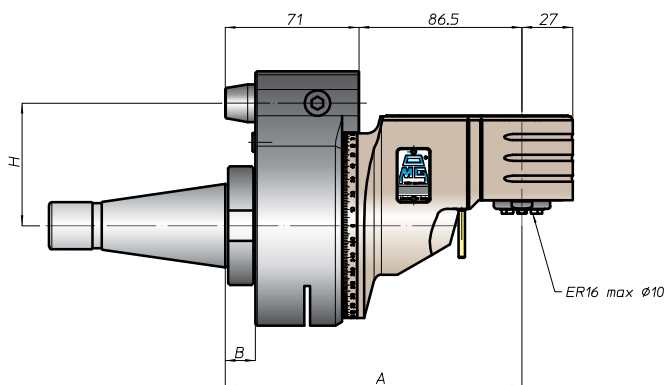
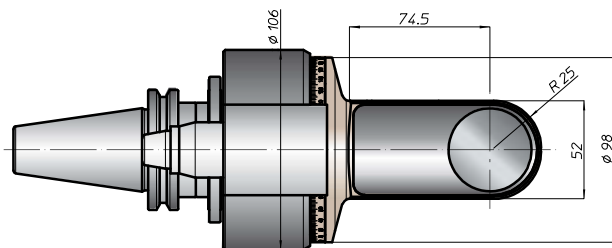
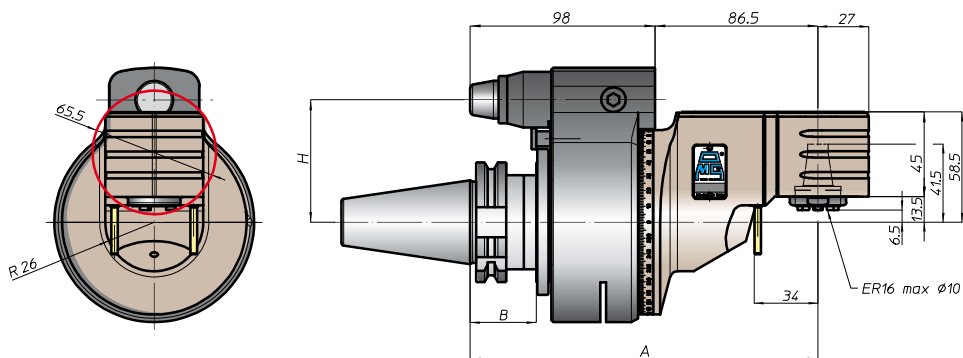
prestazioni/*performances*

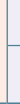
tipi mandrino disponibili / *available spindle types*

Ø16



HSK25



CONO SHANK	size	A	B	H		
				standard	optional	
★  DIN9987.1	-	184,5	35	65	-	
	40			80	110	
	45					
	50			65	-	
★ CAT  ANSIB5.50	40	192,5	45			
	50					
★ BT  ★	40		65	-		
	50					
DIN69893 HSK 	63	193,5	44	65		
	80		46	80	110	
	100					
ISO26623 CAPTO 	C5	188,5	39	65		
	C6					
	C8			80	110	
KM 	63	184,5		65		
	80			80	110	
	100					
DIN2080 	-	157,5	13	65	-	
	40					
	-	160,5	16	80	110	
	50					
NMTB ANSIB5.18 	40	157,5	13	65	-	
	50	160,5	16	80	110	

* Option: Dual Contact

TAO13.P



caratteristiche/features



Ø 13 M10 570 N



1-1



4500

peso/weight



7,5 kg



10,5 kg

rotazione/rotation

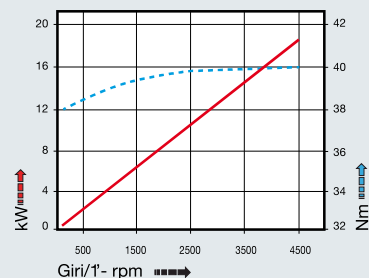


input



output

prestazioni/performance



tipi mandrino disponibili / available spindle types

2

Albero portafrese
Milling shaft

Ø16

3

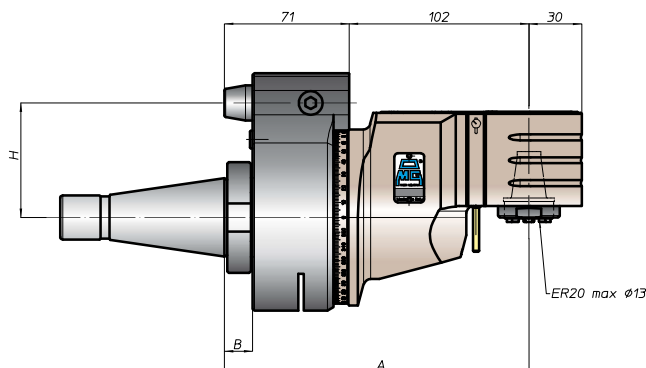
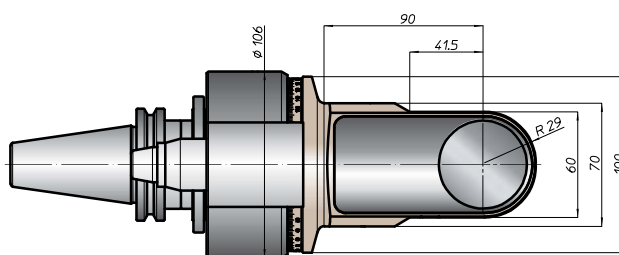
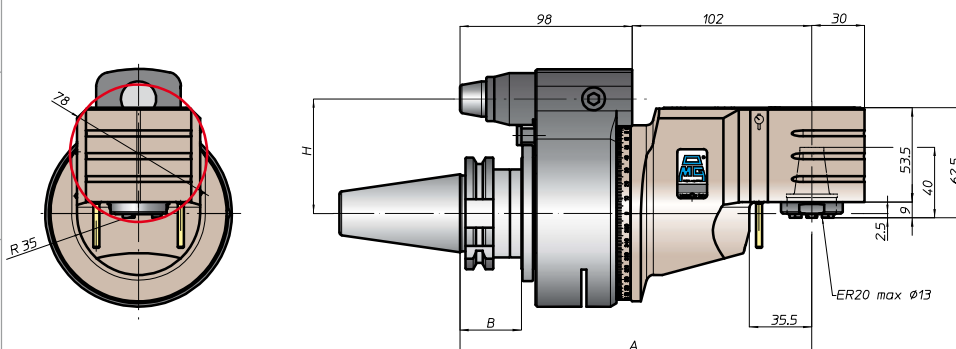
Weldon
Whistle-Notch

Ø12

4

DIN69893-HSK

HSK32



CONO SHANK	size	H			
		A	B	standard	optional
DIN69871 *	-	200	35	65	-
	40			80	110
	45			80	110
	50			80	110
ANSIB5.50 *	40	208	45	65	-
	50			80	110
* BT	40	208	45	65	-
	50			80	110
HSK	63	209	46	65	-
	80			80	110
	100			80	110
CAPTO	C5	204	39	65	-
	C6			80	110
	C8			80	110
KM	63	200	13	65	-
	80			80	110
	100			80	110
DIN2080	-	170	16	65	-
	40			80	110
	-			80	110
	50			80	110
ANSIB5.18 NMTB	40	173	13	65	-
	50			80	110

* Option: Dual Contact



TAO16.PD


caratteristiche/features


ø 16 M12 810 N



1-1 4000 70 bar

peso/weight

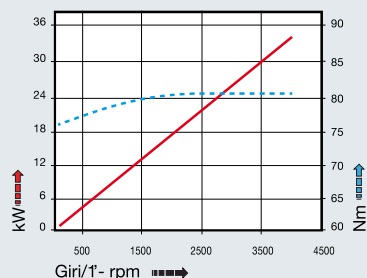

14 kg

rotazione/rotation


input



output

prestazioni/performances


CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	-	223,5	35	-	-
	45			80	110
	50			80	110
ANSIB5.50 *	-	223,5	35	65	-
	50			80	110
BT *	-	231,5	45	65	-
	50			80	110
HSK	-	232,5	46	80	110
	80			80	110
	100			80	110
CAPTO	-	227,5	-	-	-
	-			80	110
	C8			80	110
KM	-	223,5	-	-	-
	80			80	110
	100			80	110
DIN2080	-	-	-	-	-
	-			-	-
	-			-	-
ANSIB5.18 NMTB	-	-	-	-	-
	-			-	-

tipi mandrino disponibili / available spindle types

2 Albero portafresa
Milling shaft

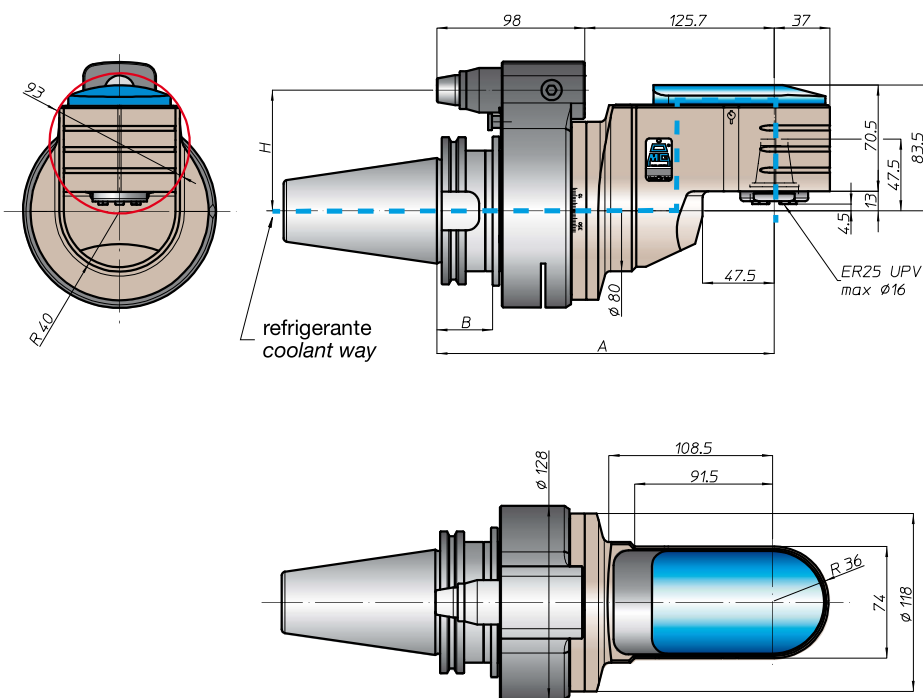
3 Weldon
Whistle-Notch

4 DIN69893-HSK

Ø16-Ø22-Ø27

Ø16

HSK40



testa ad angolo - angle head

TAO20.P



caratteristiche/features



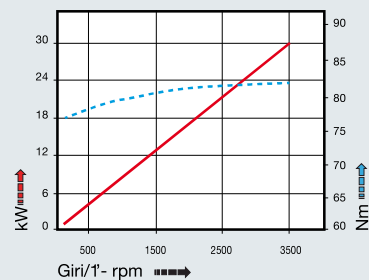
peso/weight



rotazione/rotation



prestazioni/performance



tipi mandrino disponibili / available spindle types

2 Albero portafresa
Milling shaft

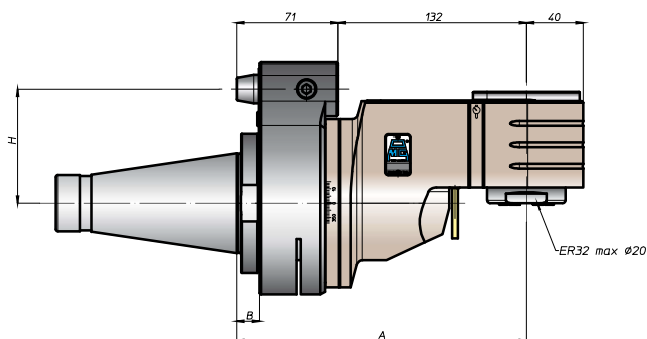
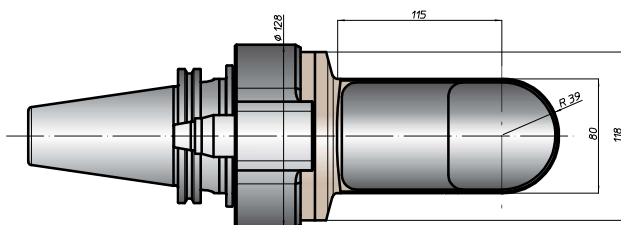
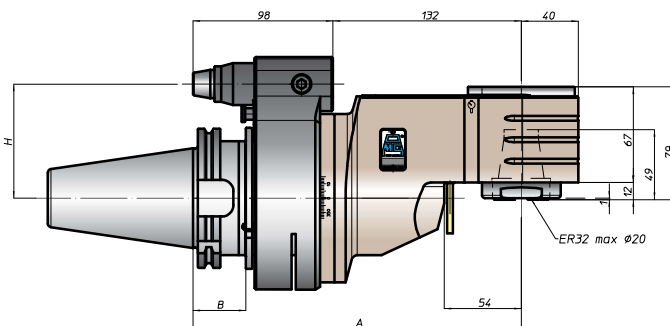
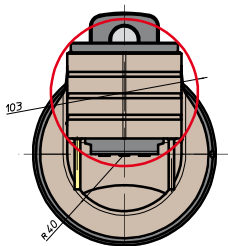
Ø22-Ø27-Ø32

3 Weldon
Whistle-Notch

Ø16-Ø20

4 DIN69893-HSK

HSK50



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	-	230	35	-	-
	45			80	110
	50			80	110
ANSIB5.50 *	-	238	45	-	-
	50			80	110
BT *	-	239	46	65	-
	50			80	110
HSK	-	234	16	-	-
	80			80	110
	100			80	110
CAPTO	-	203	16	-	-
	-			80	110
	C8			80	110
KM	-	203	16	-	-
	80			80	110
	100			80	110
DIN2080	-	203	16	-	-
	-			80	110
	50			80	110
ANSIB5.18 NMTB	-	203	16	-	-
	50			80	110

* Option: Dual Contact

TAO20.PD



caratteristiche/features



peso/weight



15 kg

rotazione/rotation

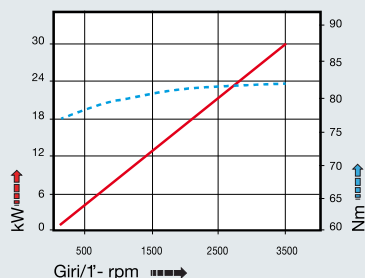


input



output

prestazioni/performance



CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	230	35	-	-
	45			80	110
	50			80	110
★ CAT	-	238	45	65	-
	50			80	110
★ BT	-	239	46	80	110
	50			80	110
HSK	-	234	-	-	-
	80			80	110
	100			80	110
CAPTO	-	230	-	-	-
	-			80	110
	C8			80	110
KM	-	230	-	-	-
	80			80	110
	100			80	110
DIN2080	-	-	-	-	-
	-			-	-
	-			-	-
NMTB	-	-	-	-	-
	-			-	-

tipi mandrino disponibili / available spindle types

2 Albero portafresa
Milling shaft

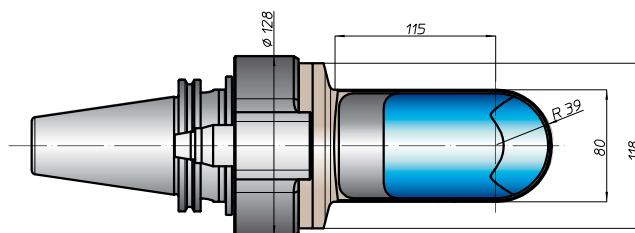
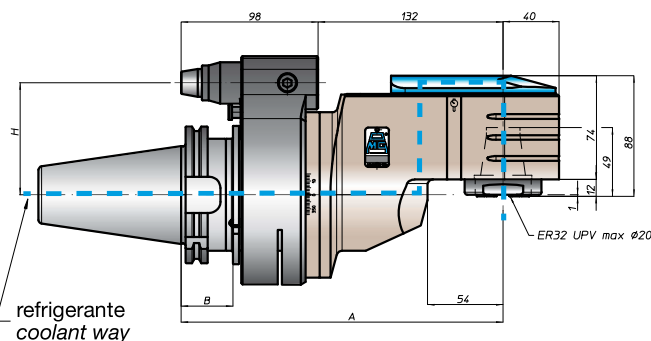
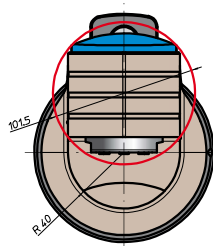
3 Weldon
Whistle-Notch

4 DIN69893-HSK

Ø22-Ø27-Ø32

Ø16-Ø20

HSK50



TAO26.P



caratteristiche/features



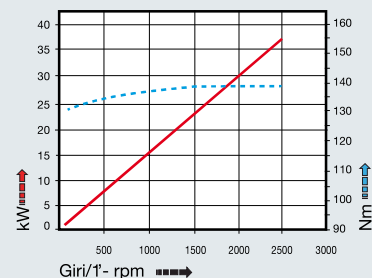
peso/weight



rotazione/rotation

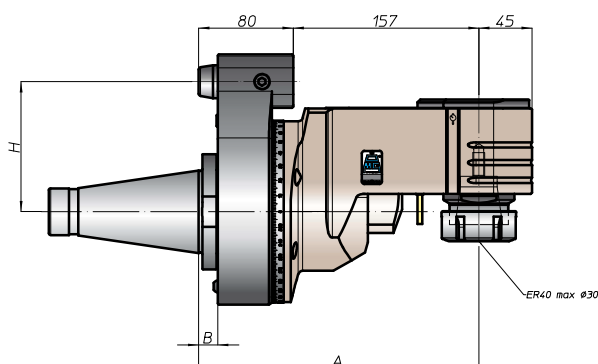
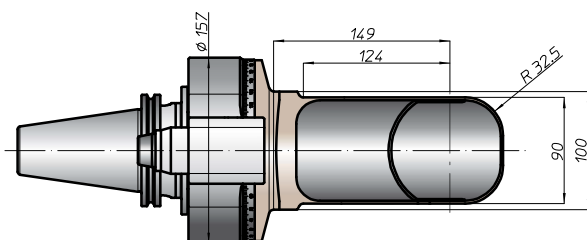
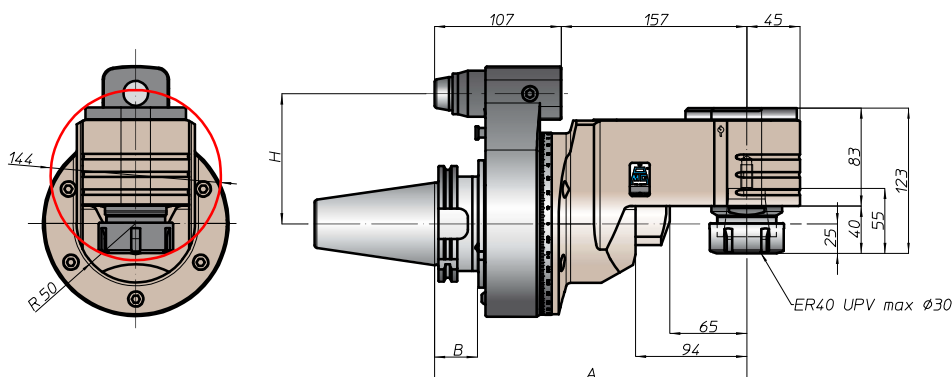


prestazioni/performance



tipi mandrino disponibili / available spindle types

2 Albero portafresa Milling shaft	3 Weldon Whistle-Notch	4 DIN69893-HSK	5 COROMANT CAPTO®	6 ABS Licenza KOMET®
Ø27-Ø32	Ø25-Ø32	HSK63	C4	ABS63



CONO SHANK	size	A	B	H standard	optional
DIN69871 *	-	-	-	-	-
ANSIB5.50 *	50	264	36,5	110	-
BT *	50	272	44,5	110	-
HSK	-	-	-	-	-
DIN69893	100	273	45,5	110	-
CAPTO	-	-	-	-	-
ISO26623	-	264	36,5	110	-
KM	-	270	-	-	-
100	-	-	-	110	-
DIN2080	-	-	-	-	-
50	243	16	110	-	-
ANSIB5.18 NMTB	50	243	16	110	-

* Option: Dual Contact

TAO26.PD


caratteristiche/features


ø 26 M20 1590 N



1-1 3000 70 bar

peso/weight

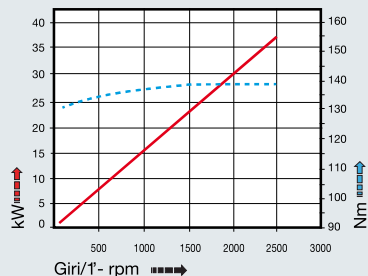

24 kg

rotazione/rotation


input



output

prestazioni/performance


CONO SHANK	size	A	B	H	
				standard	optional
★ DIN69871	-	264	36,5	-	-
	-			-	-
	-			-	-
	50			110	-
★ ANSIB5.50	-	264	36,5	-	-
	50			110	-
★ BT	-	272	44,5	-	-
	50			110	-
HSK	-	273	45,5	-	-
	-			-	-
	100			110	-
CAPTO	-	264	36,5	-	-
	-			-	-
	C8			110	-
KM	-	270	-	-	-
	-			-	-
	100			110	-
DIN2080	-	-	-	-	-
	-			-	-
	-			-	-
	-			-	-
ANSIB5.18 NMTB	-	-	-	-	-
	-			-	-

tipi mandrino disponibili / available spindle types

2 Albero portafresa
Milling shaft

3 Weldon
Whistle-Notch

4 DIN69893-HSK

5 COROMANT
CAPTO®

6 ABS
Licenza KOMET®

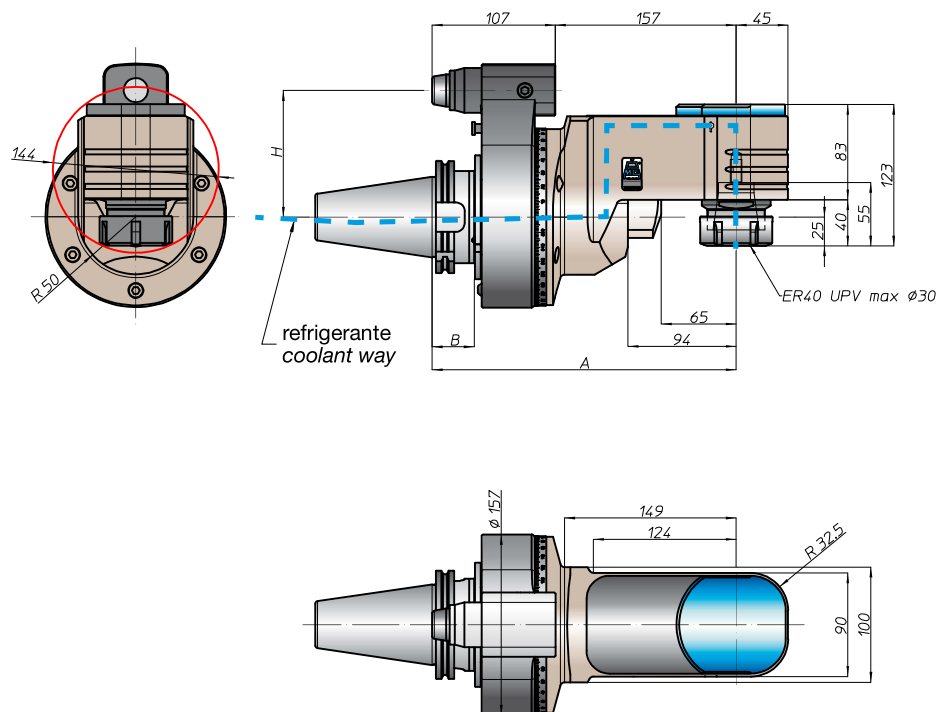
Ø27-Ø32

Ø25-Ø32

HSK63

C4

ABS63

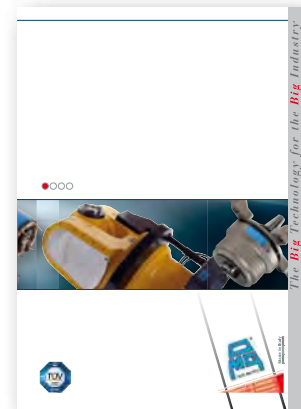


Per ulteriori informazioni, richiedi
For more technical information, ask for

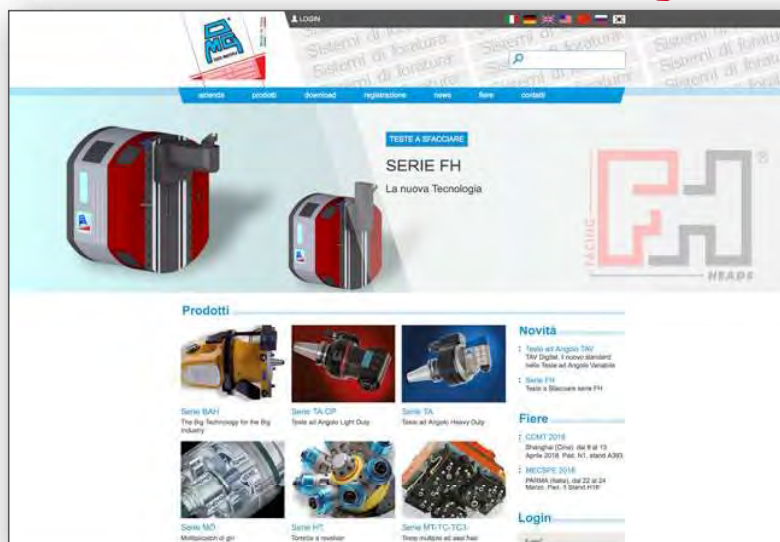


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T



TA



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MO



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