

serie



## testa ad angolo angle head

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 integrant 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" if 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 product, always supported by our experience of hundreds of solutions done for many different industrial activities.

# Panoramica prodotti

## Product overview



### TAR

Piccole per piccoli spazi.

*Tiny for narrow spaces.*



### TA

Lavorazione singola di foratura e fresatura.

*Drilling and milling machining.*

Pagina/Page: 1-10

Pagina/Page: 1-18



### 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: 1-36

### 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: 1-46



### TAF

Mandrino fisso, angolo su richiesta del cliente.

*Fixed spindle with custom angle.*

Pagina/Page: 1-60

### Simboli/Icons



Capacità di foratura  
*Drilling capacity*



Maschiatura  
*Tapping*



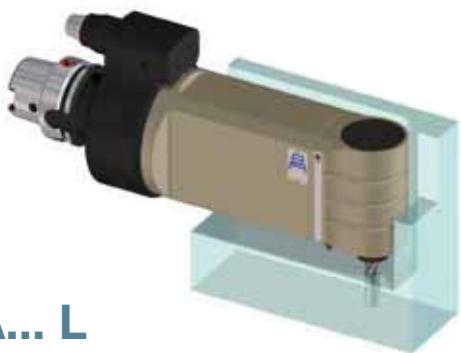
Rapporto entrata/uscita  
*Ratio input/output*



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: 1-18



### TA... 2P

Due mandrini contrapposti di 180°.

*180° two opposed spindles.*

Pagina/Page: 1-30



### 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: 1-47



### TAV

Mandrino variabile  $\pm 90^\circ$ .

*$\pm 90^\circ$  variable spindle.*

Pagina/Page: 1-54

### Simboli/Icons



Peso con cono 40  
*Weight with size 40 shank*



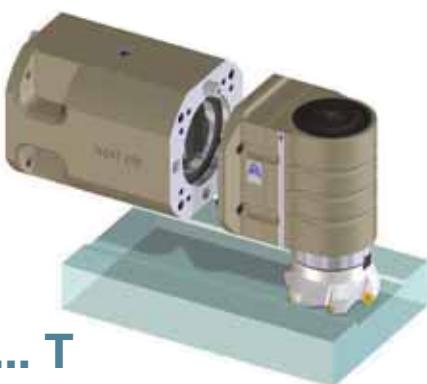
Peso con cono 50  
*Weight with size 50 shank*



Rotazione in ingresso  
*Input rotation*



Rotazione in uscita  
*Output rotation*



### TA... T

Connessione alla macchina tramite flangia.

*To be connected to the machine by flange.*

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TA

MO

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VH

TSI/TSX

T

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# 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: mm 65 per i cono grandezza 40, mm 80 per i coni grandezza 50 ed in alcuni casi anche mm 110. 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'antirottante 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  
specifiche richiesta.  
*Customized design according  
to your application.*



Stop-block  
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.

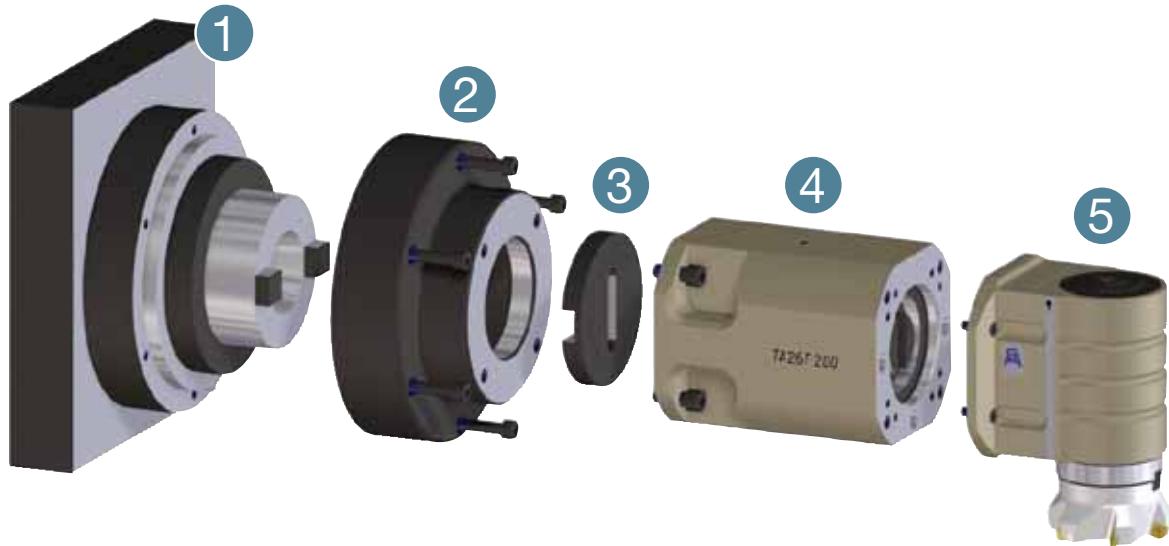
**Massima stabilità** - I sistemi antirotanti TriBlock e QuadBlock di O.M.G. con perni regolabili permettono di contrastare al meglio le spinte radiali e assiali con la possibilità di affrontare in sicurezza lavorazioni di fresatura o finitura fino a ora mai effettuate con le teste ad angolo, destinate 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	Viti	<i>Screws</i>
4	Giunto	<i>Driving joint</i>
5	Estensione	<i>Extension</i>
6	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/A.

*Angular contact ball bearings of precision class ABEC7/9*



### INGRANAGGI/GEAR

Ingranaggi Gleason con evolente 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 cinematici 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.

TA

MO

HT

VH

TSI/TSX

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MT-TC-TC3

Accessori  
Accessories

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Technical supplement

# TAR03.P



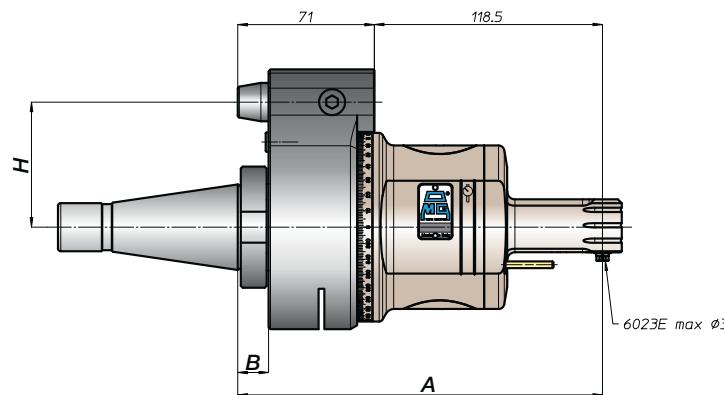
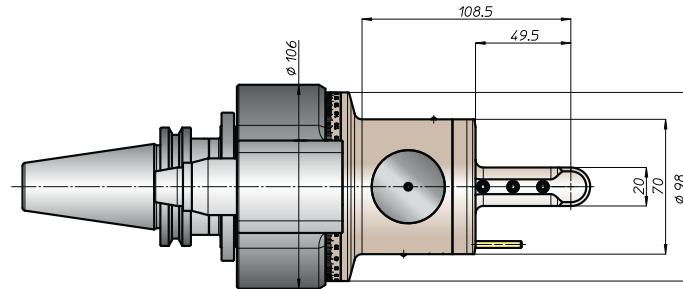
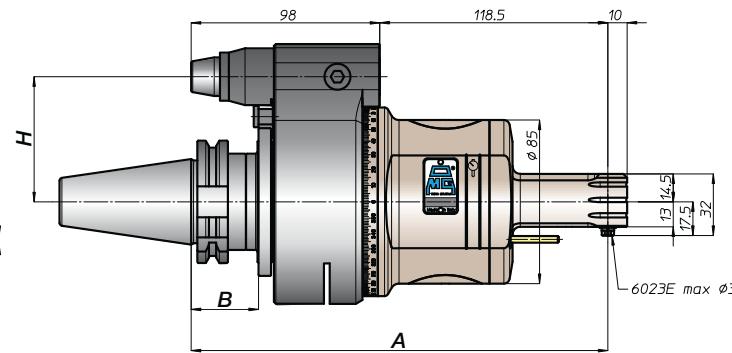
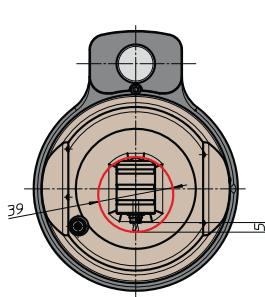
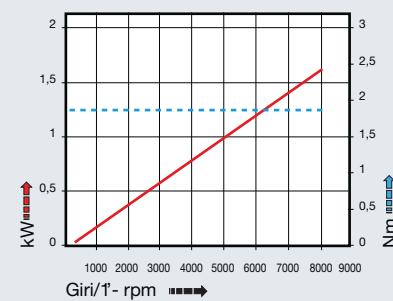
## caratteristiche/features

- ø 3
- M3
- 1-1
- 8000

## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	H standard	H optional
DIN9871	30			65	-
	40			80	110
	45			65	-
	50	216,5	35	80	110
ANSIB5.50	CAT 40			65	-
	50			80	110
BT	40			65	-
	50	224,5	43	80	110
HSK	63			65	-
	80	225,5		80	110
	100	46		80	110
CAPTO	C5			65	-
	C6			80	110
	C8	220,5		80	110
KM	63			65	-
	80	216,5		80	110
	100			80	110
DIN2080	-			65	-
	40	186,5	13	65	-
	-			80	110
	50	189,5	16	80	110
ANSIB5.18	NMTB 40	186,5	13	65	-
	50	189,5	16	80	110

# TAR03.PL

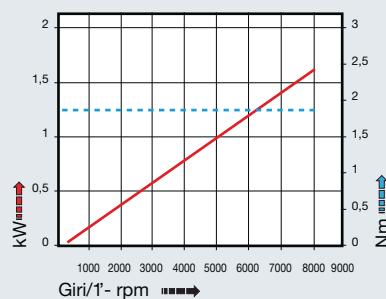
## caratteristiche/features



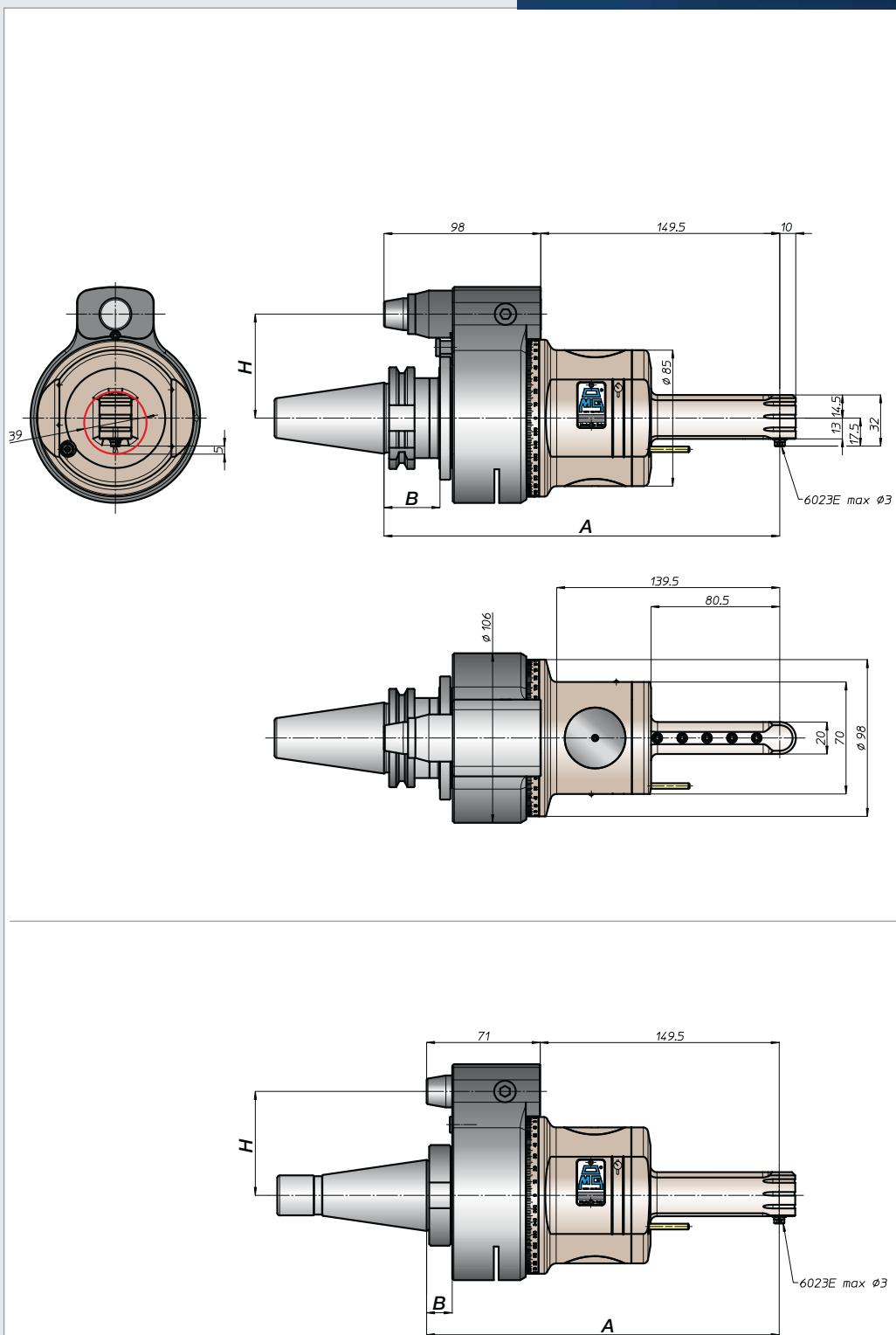
## peso/weight



## prestazioni/performances



	CONO SHANK	size	A	B	standard	H	optional
DIN69871		30			65		-
		40					
		45					
		50	247,5	35	80	110	
ANSIB5.50	CAT	40			65		-
		50			80	110	
BT		40			65		
		50	255,5	43	80	110	
DIN69893	HSK	63	256,5	42	65		
		80	260,5	46	80	110	
		100					
ISO26623	CAPTO	C5			65		
		C6	255,5				
		C8			80	110	
KM		63			65		
		80	251,5				
		100			80	110	
DIN2080		-	217,5	13	65		-
		40					
		-	220,5	16	80	110	
		50					
ANSIS5.18	NMTB	40	217,5	13	65		-
		50	220,5	16	80	110	



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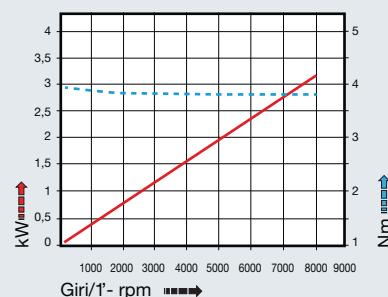
## caratteristiche/features

- ø 4
- M3
- 1-1
- 8000

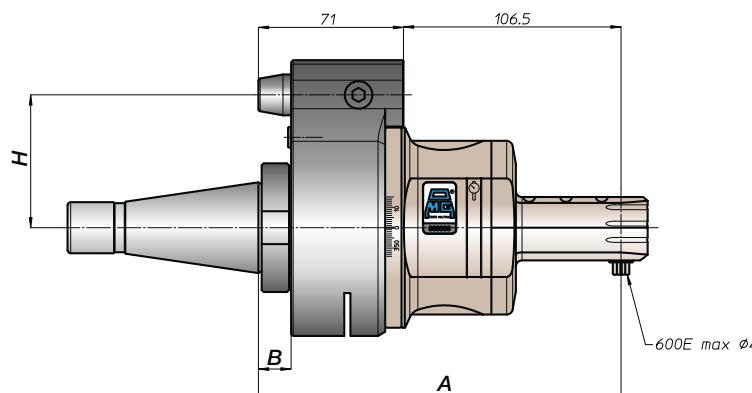
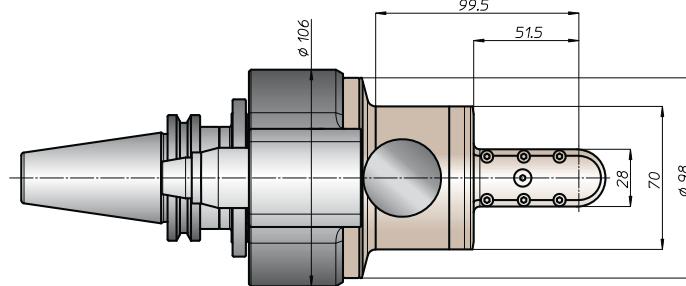
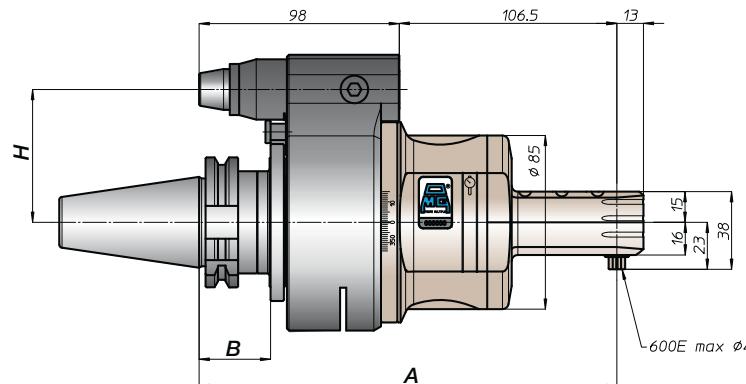
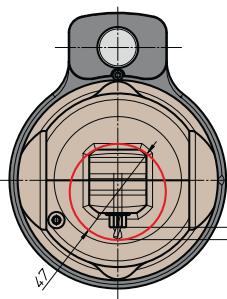
## peso/weight

- |                    |        |        |        |
|--------------------|--------|--------|--------|
| 40                 | 5,5 kg | 50     | 7,5 kg |
| rotazione/rotation |        |        |        |
| input              |        | output |        |

## prestazioni/performances



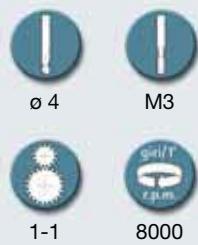
TA MO HT VH TSI/TSX T MT-TC-TC3 Accessories Appendix tecnica Technical supplement



CONO SHANK	size	A	B	H standard	H optional
DIN9871	30			65	-
	40			80	110
	45				
	50	218,5	35		
ANSIB5.50	40			65	-
	50			80	110
BT	40			65	
	50	236,5	43	80	110
HSK	63			65	
	80	227,5		80	110
	100		46		
CAPTO	C5			65	
	C6	222,5			
	C8			80	110
KM	63			65	
	80	218,5			
	100			80	110
DIN2080	-			188,5	13
	40				65
	-	191,5	16	80	110
	50				
NMTB	40	188,5	13	65	-
ANSIB5.18	50	191,5	16	80	110

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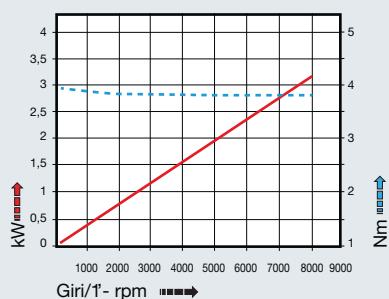
## caratteristiche/features



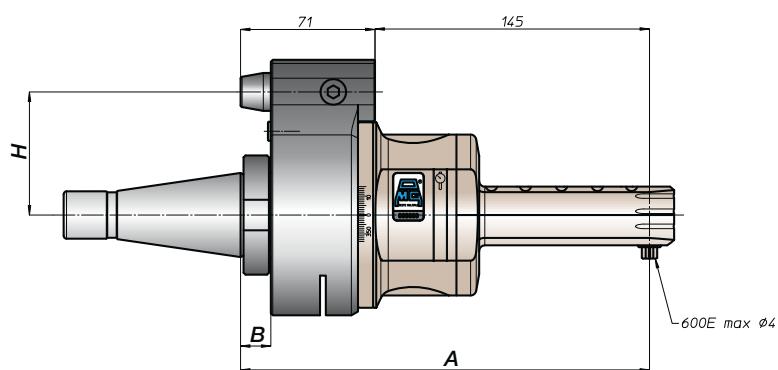
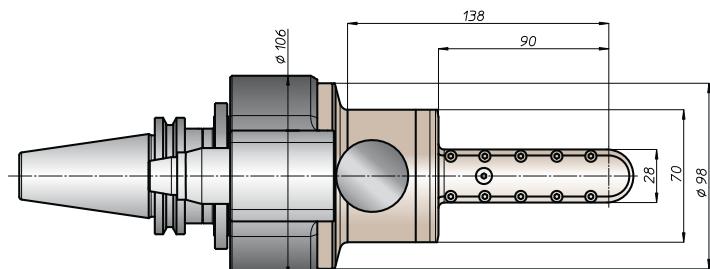
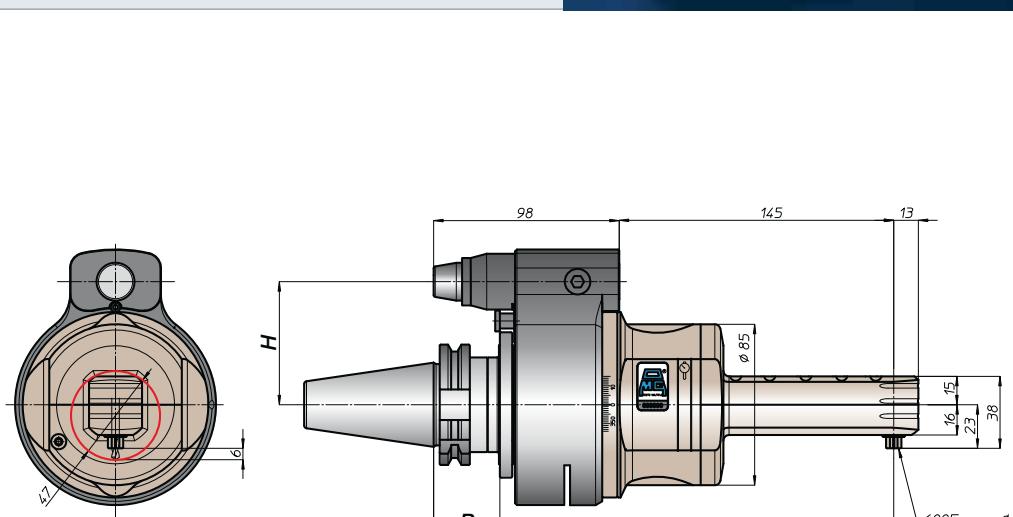
## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	standard	optional	H
DIN9871	30	257	35	65	110	
	40					
	45					
	50					
ANSIB5.50	40	275	43	80	110	
	50					
BT	40	275	43	80	110	
	50					
DIN6993	63	266	44	65	110	
	80					
	100					
ISO26623	C5	261	46	80	110	
	C6					
	C8					
KM	63	257	44	65	110	
	80					
	100					
DIN2080	-	227	13	65	110	
	40					
	-					
	50					
ANSIS.18	40	227	13	65	-	
	50	230	16	80	110	
NMTB						

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MT-Tc-Tc3

TA

MO

HT

VH

TSI/TSX

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# TAR06.P

TA

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TSI/TSX

T

MT-TC-TC3

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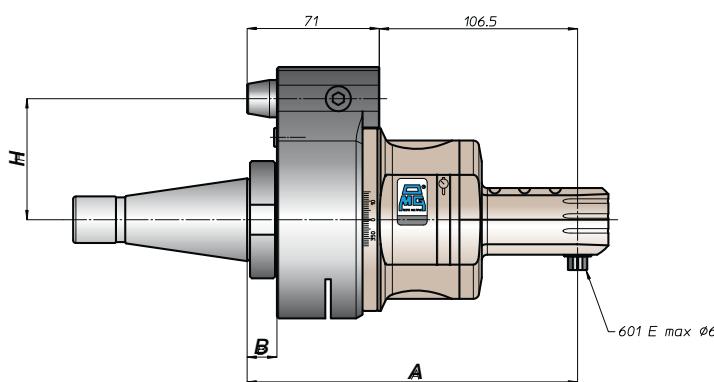
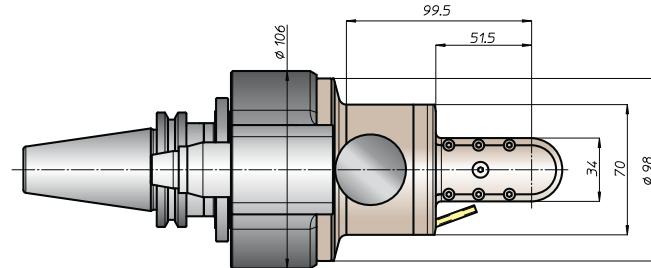
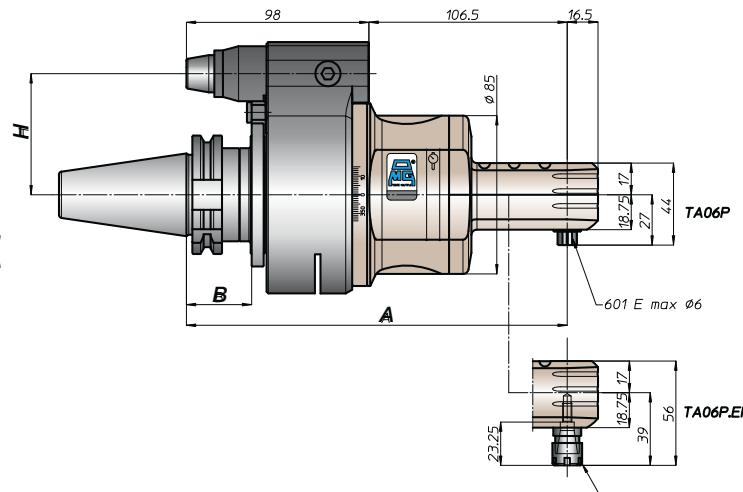
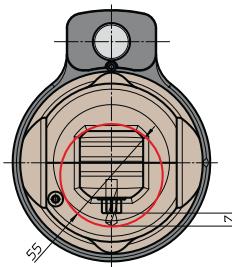
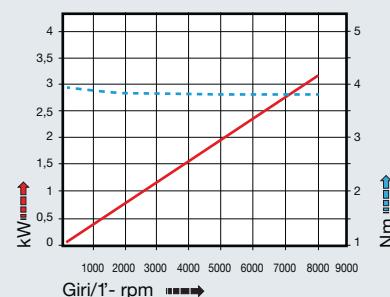
## caratteristiche/features

- ø 6
- M5
- 1-1
- 8000

## peso/weight

- |    |        |
|----|--------|
| 40 | 6 kg   |
| 50 | 8,3 kg |
- rotazione/rotation
- input      output

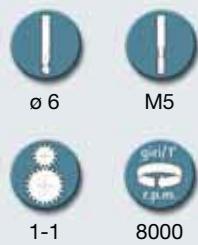
## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
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	40			80	110	
	45			65	-	
	50	228,5	35	80	110	
CAT	40			65	-	
	50			80	110	
BT	40			65	-	
	50	236,5	43	80	110	
HSK	63			65	-	
	80	237,5		80	110	
	100	46		80	110	
DIN69393				65	-	
CAPTO	C5			65	-	
	C6	232,5		80	110	
	C8			65	-	
KM	63			65	-	
	80	228,5		80	110	
	100			65	-	
DIN2080	-			198,5	13	65
	40			201,5	16	80
	-			201,5	16	110
	50			198,5	13	65
ANSI35.18	40	198,5	13	65	-	
	50	201,5	16	80	110	

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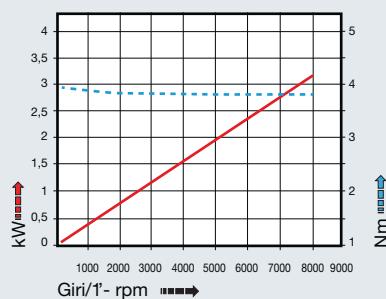
## caratteristiche/features



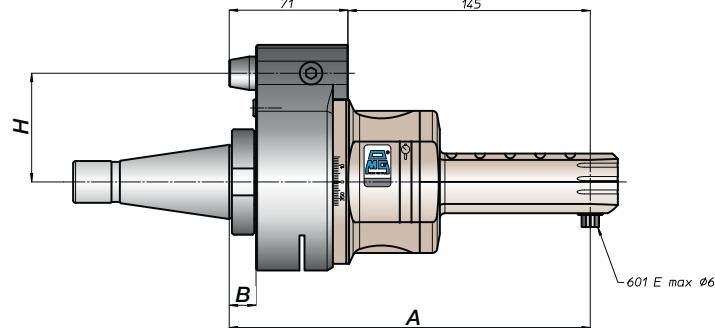
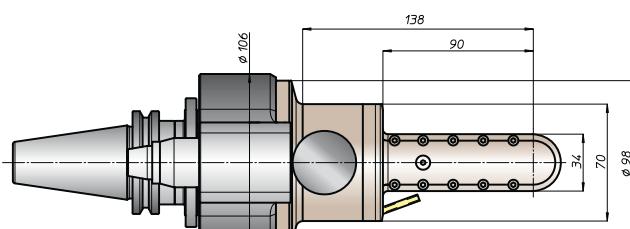
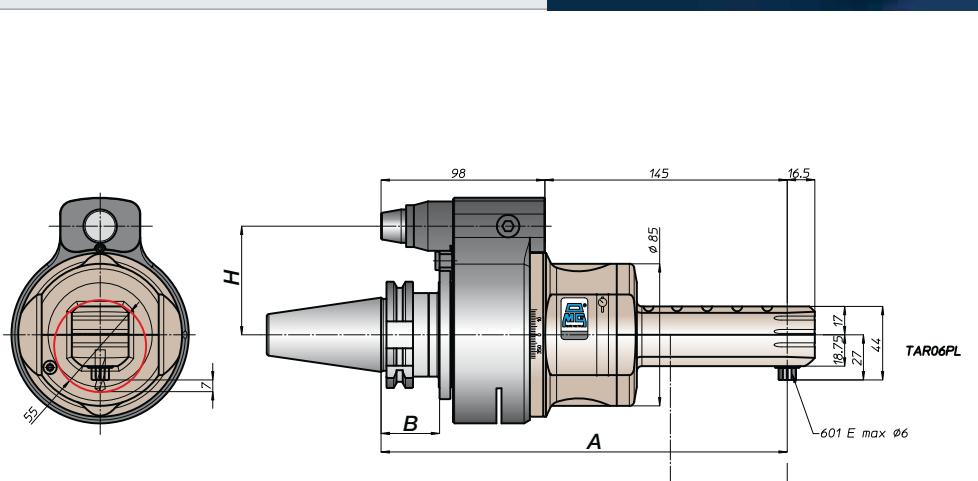
## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	standard	optional
DIN69871	30	267	35	65	-
	40			80	110
	45			80	110
	50			80	110
CAT	40	275	43	65	-
	50			80	110
BT	40	275	43	80	110
	50			80	110
DIN69893	63	276	44	65	
	80		46	80	110
	100			80	110
ISO26623	C5	271	65	80	110
	C6			80	110
	C8			80	110
KM	63	267	80	65	
	80			80	110
	100			80	110
DIN2080	-	237	13	65	-
	40		16	80	110
	-	240	16	80	110
	50		16	80	110
ANSI5.18	40	237	13	65	-
	50	240	16	80	110



# TAR10.P



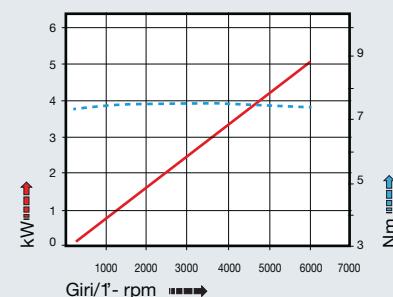
## caratteristiche/features

- ø 10
- M8
- 1-1
- 6000

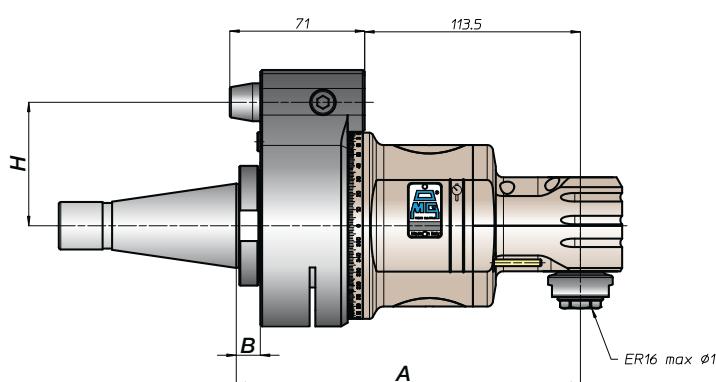
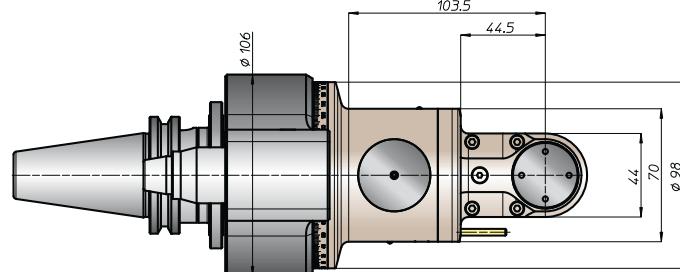
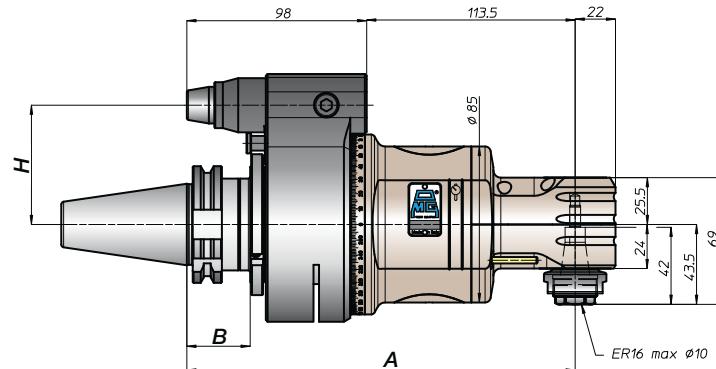
## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN9871	-			65	-	
	40			80	110	
	45			65	-	
	50	211,5	35	80	110	
ANSIB5.50	40			65	-	
	50			80	110	
BT	40			65		
	50	219,5	43	80	110	
HSK	63			65		
	80	220,5		80	110	
	100		46	80	110	
DIN69893				65		
CAPTO	C5			65		
	C6	215,5		80	110	
	C8			65		
ISO26623				65		
KM	63			65		
	80	211,5		80	110	
	100			65		
DIN2080	-			181,5	13	65
	40			184,5	16	80
	-			184,5	16	110
	50			181,5	13	65
NMTB	40	181,5	13	65		
ANSIS5.18	50	184,5	16	80	110	



# TAR10.PL

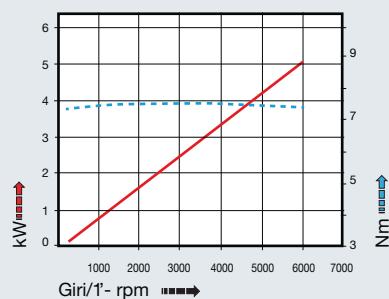
## caratteristiche/features



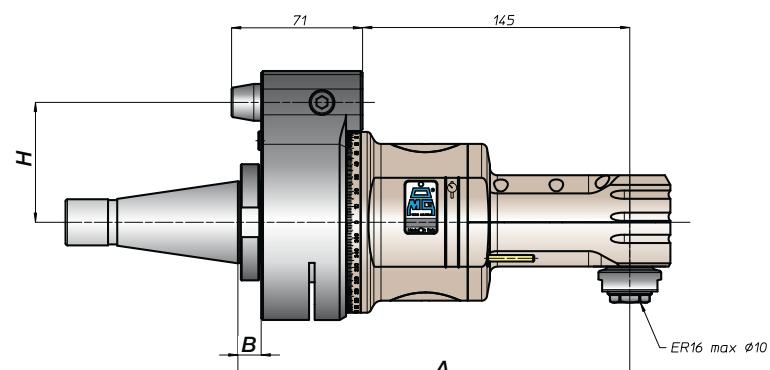
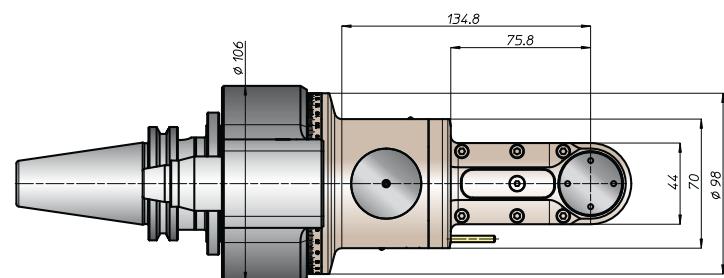
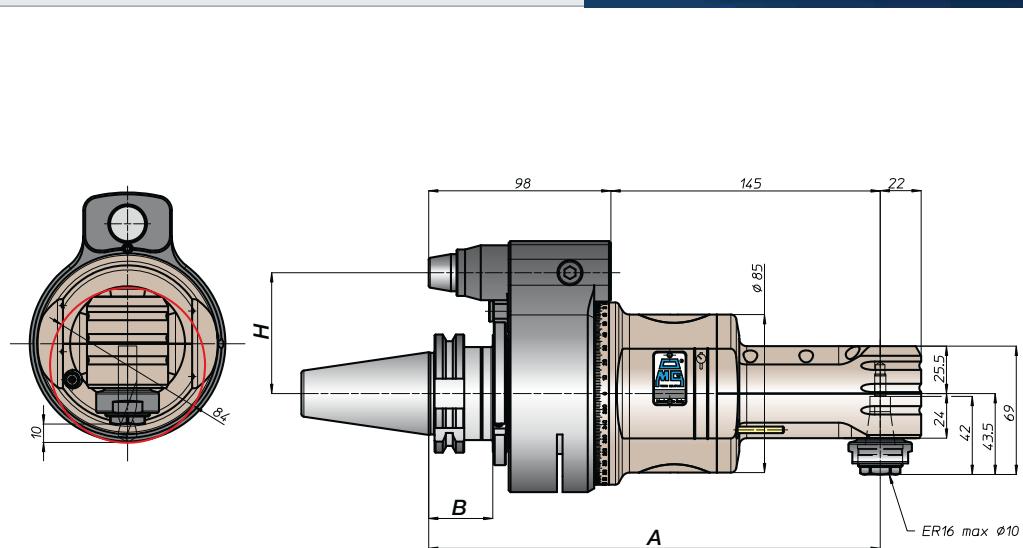
## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	standard	optional
DIN69871	-			65	-
	40				
	45				
	50	243	35	80	110
ANSIB5.50	40			65	-
	50			80	110
BT	40			65	
	50	251	43	80	110
DIN69893	63			65	
	80	252	44	80	110
	100				
ISO26623	C5			65	
	C6	247		80	110
	C8				
KM	63			65	
	80	243		80	110
	100				
DIN2080	-			65	-
	40	213	13	65	-
	-	216	16	80	110
	50				
ANSIS5.18	40	213	13	65	-
	50	216	16	80	110



## TA07.P



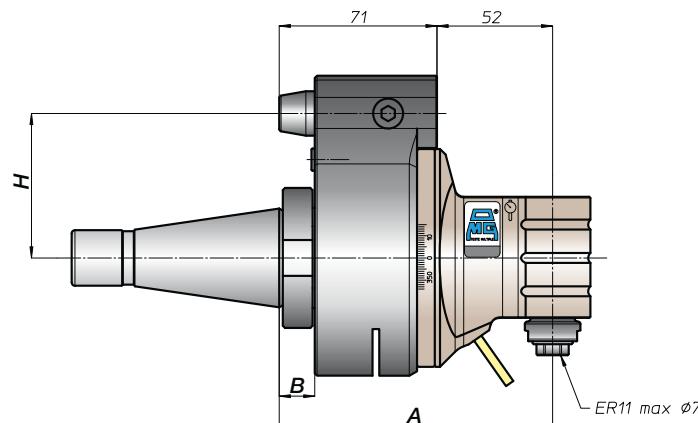
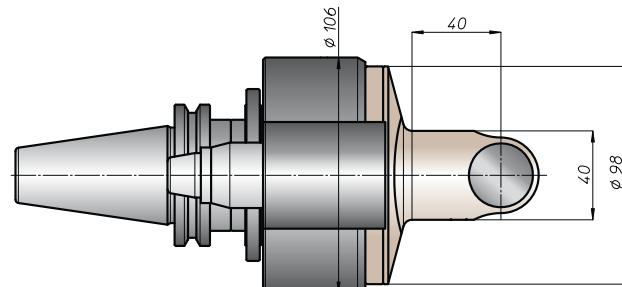
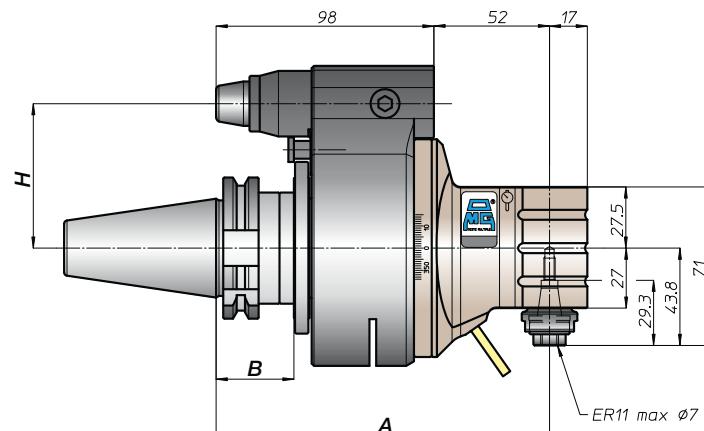
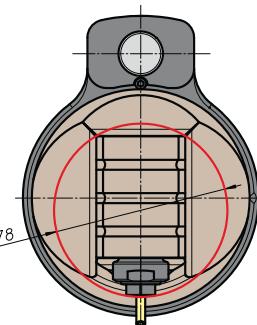
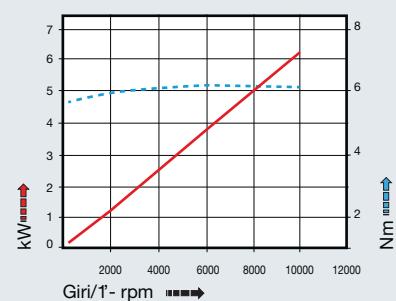
## caratteristiche/features

- ø 7
- M6
- 1-1
- 10000

## peso/weight

- |    |      |
|----|------|
| 40 | 5 kg |
| 50 | 7 kg |
- rotazione/rotation
- input      output

## prestazioni/performances



CONO SHANK	size	A	B	H standard	H optional
DIN9871	30			65	-
	40			80	110
	45				
	50	150	35		
ANSIB5.50	40			65	-
	50			80	110
BT	40			65	
	50	158	43	80	110
HSK	63			65	
	80	159		80	110
	100				
CAPTO	C5			65	
	C6	154		80	110
	C8				
KM	63			65	
	80	150		80	110
	100				
DIN2080	-			120	13
	40			123	16
	-				
	50			80	110
NMTB	40	120	13	65	-
ANSIB5.18	50	123	16	80	110

# TA07.PL

## caratteristiche/features



Ø 7



M6



1:1



10000

## peso/weight



7,5 kg



9,5 kg

## rotazione/rotation

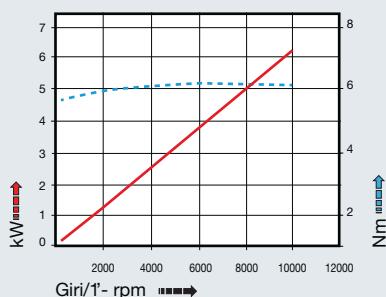


input

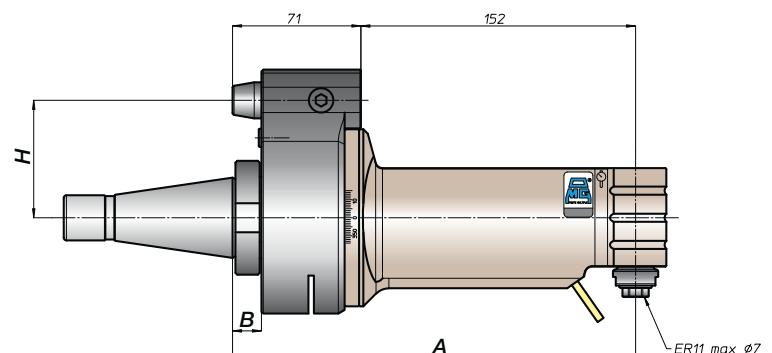
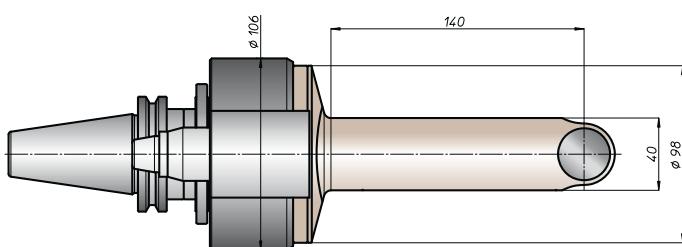
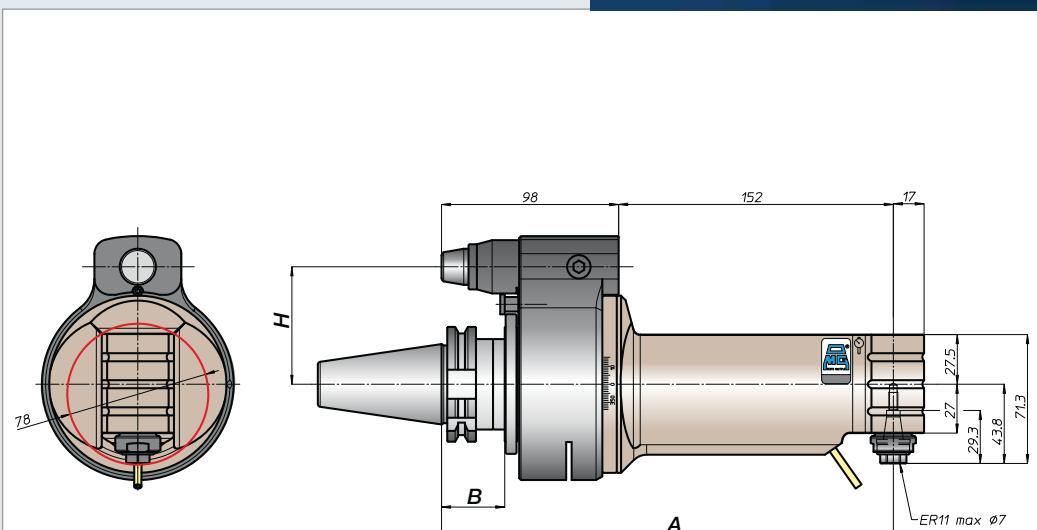


output

## prestazioni/performances



CONO SHANK	size	A	B	standard	optional	H
DIN69871	-			65	-	
	40					
	45					
	50	250	35	80	110	
						78
ANSIB5.50	40			65	-	
	50			80	110	
BT	40			65		
	50	258	43	80	110	
DIN6983	63			44	65	
	80	259		46	80	110
	100					
ISO26623	C5			65		
	C6	254		80	110	
	C8					
KM	63			65		
	80	250		80	110	
	100					
DIN2080	-			65		
	40	220	13	65	-	
	-	223	16	80	110	
	50					
ANSIS5.18	40	220	13	65	-	
	50	223	16	80	110	



## TA10.P



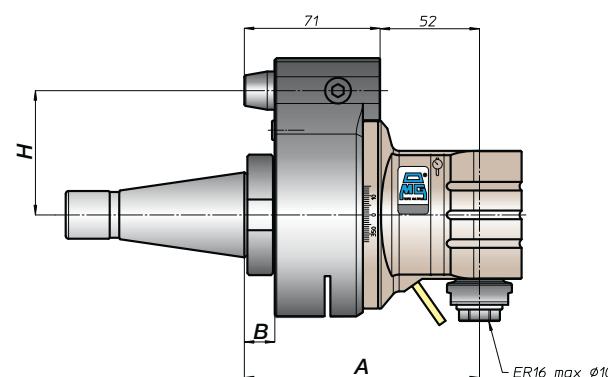
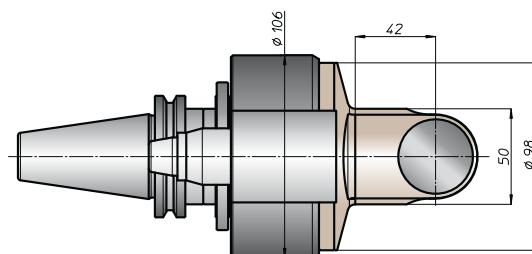
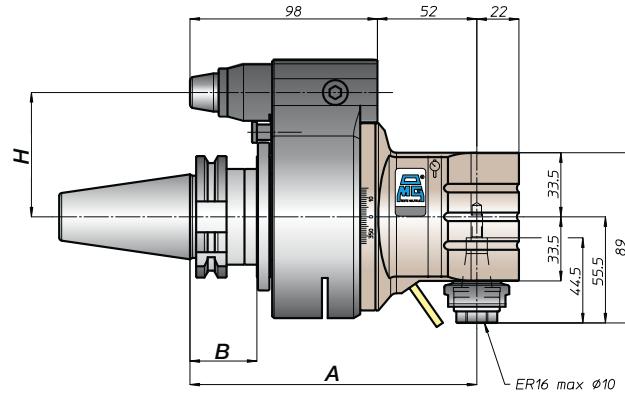
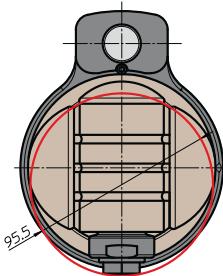
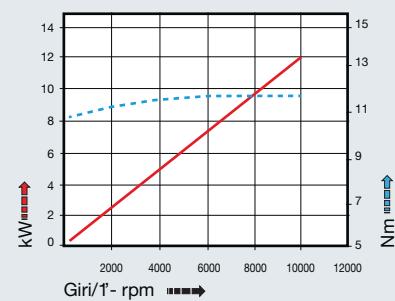
## caratteristiche/features

- ø 10
- M8
- 1-1
- 10000

## peso/weight

- |    |        |
|----|--------|
| 40 | 5,3 kg |
| 50 | 7,5 kg |
- rotazione/rotation
- input      output

## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN9871	30			65	-	
	40			80	110	
	45			65	-	
	50	150	35	80	110	
ANSIB5.50	40			65	-	
	50			80	110	
BT	40			65		
	50	158	43	80	110	
HSK	63			65		
	80	159	46	80	110	
	100			65		
DIN69893				80	110	
CAPTO	C5			65		
	C6	154		80	110	
	C8			65		
ISO26623				80	110	
KM	63			65		
	80	150		80	110	
	100			65		
DIN2080				120	13	65
	40			120	13	65
	-			123	16	80
	50			123	16	110
NMTB	40	120	13	65	-	
ANSIB5.18	50	123	16	80	110	

# TA10.PL

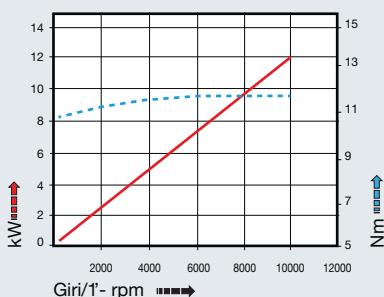
## caratteristiche/features



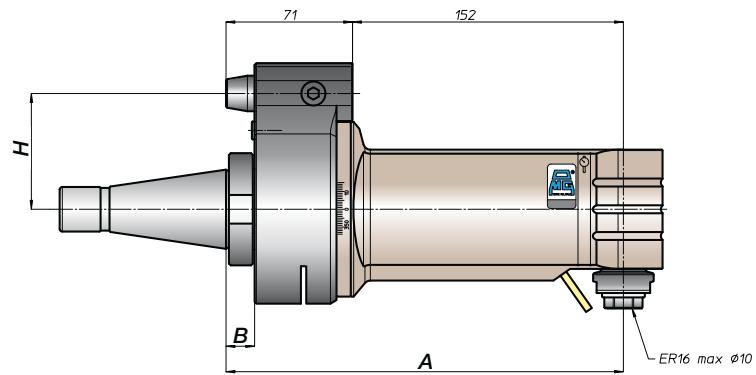
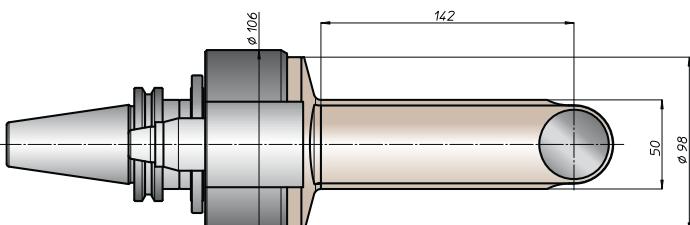
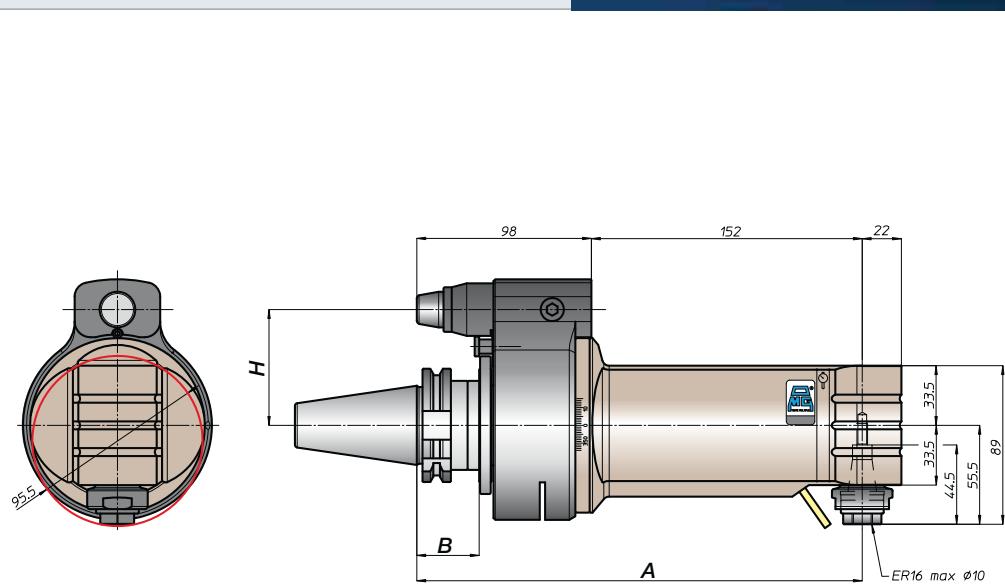
## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	standard	optional
DIN69871	-			65	-
	40				
	45				
	50	250	35	80	110
	CAT			65	-
ANSI65.50	40				
	50				
	BT			65	
	40				
	50	258	43	80	110
DIN69893	63			44	65
	80	259		46	80
	100				110
	CAPTO				
	C5			65	
ISO26623	C6	254			
	C8			80	110
	KM				
	63			65	
	80	250			
DIN2080	100			80	110
	-				
	40	220	13	65	-
	-	223	16	80	110
	50				
ANSI55.18	40	220	13	65	-
	50	223	16	80	110



TA

MO

HT

VH

TSI/TSX

MT-TC-TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

## TA13.P



## caratteristiche/features

- 
- 
- 
- 
- 
- 

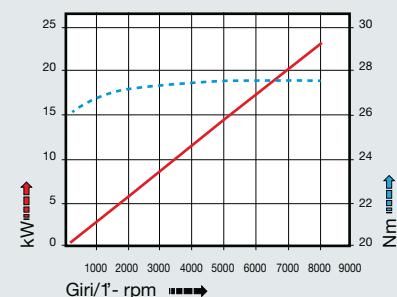
## peso/weight



## rotazione/rotation

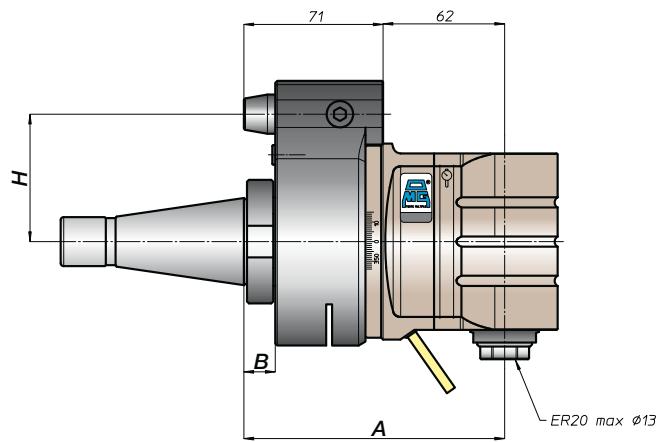
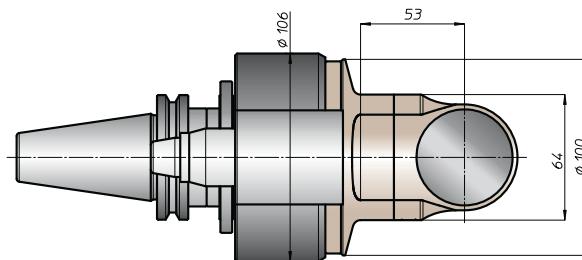
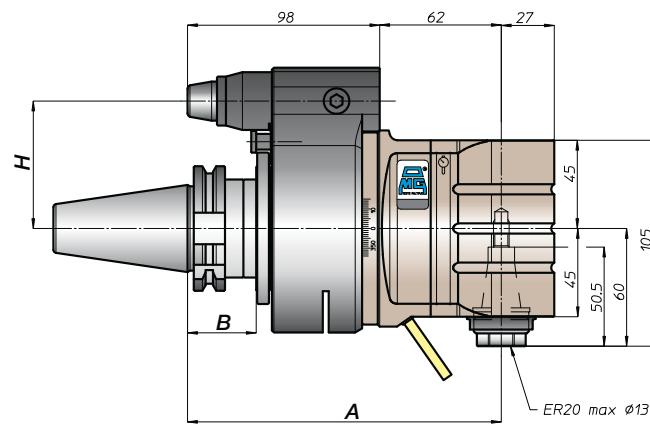
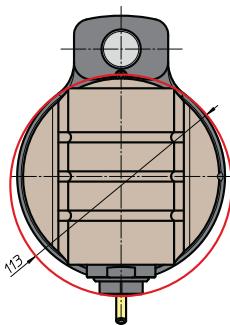


## prestazioni/performances



## tipi mandrino/spindle type

2      3



CONO SHANK	size	A	B	H
				standard optional
DIN9871	-			65 -
	40			80 110
ANSIB5.50	45			65 -
	50	160	35	80 110
BT	40			65
	50	168	43	80 110
HSK	63			65
	80	169		80 110
	100		46	80 110
ISO69893	C5			65
	C6	164		80 110
	C8			
CAPTO	63			65
	80	160		80 110
	100			
KM	63			65
	80	160		80 110
	100			
DIN2080	-		130	13 65 -
	40			
	-		133	16 80 110
	50			
ANSIB5.18	40	130	13	65 -
	50	133	16	80 110

# TA13.PL

## caratteristiche/features



o 13



M10



1-1



8000

## peso/weight



40



50

kg



rotazione/rotation

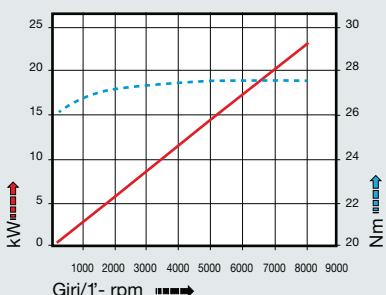


input



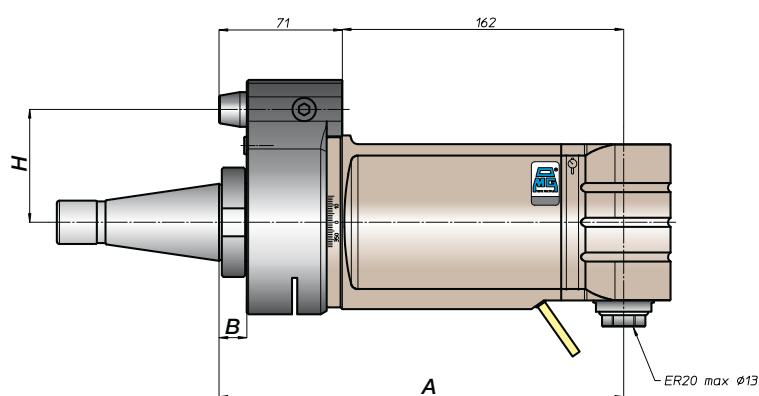
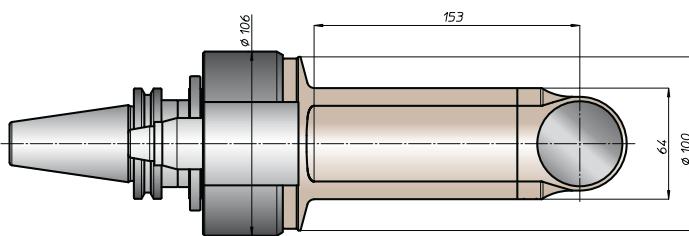
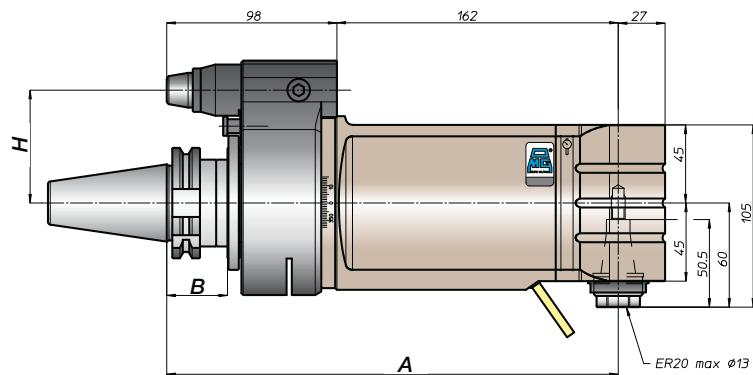
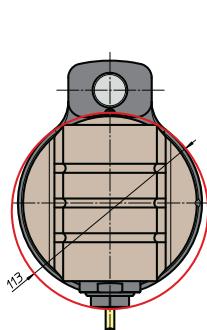
output

## prestazioni/performances



CONO SHANK	size	A	B	standard	optional	H
DIN9871	-			65	-	
	40					
	45					
	50	260	35	80	110	
CAT	40			65	-	
	50					
BT	40			65		
	50	268	43	80	110	
DIN6993	HSK	63		44	65	
		80	269	46	80	110
		100				
ISO26623	CAPTO	C5		65		
		C6	264			
		C8		80	110	
KM	63			65		
	80	260				
	100			80	110	
DIN2080	-			65	-	
	40	230	13	65	-	
	-	233	16	80	110	
	50					
ANSI56.18	NMTB	40	230	13	65	-
		50	233	16	80	110

tipi mandrino/spindle type	
<b>2</b>	
	<b>3</b>



# TA16.P



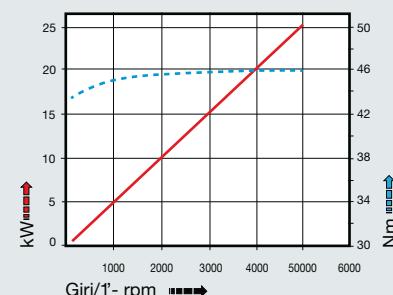
## caratteristiche/features

- - 
  - 
  -
- ø 16      M12  
1-1      5000

## peso/weight

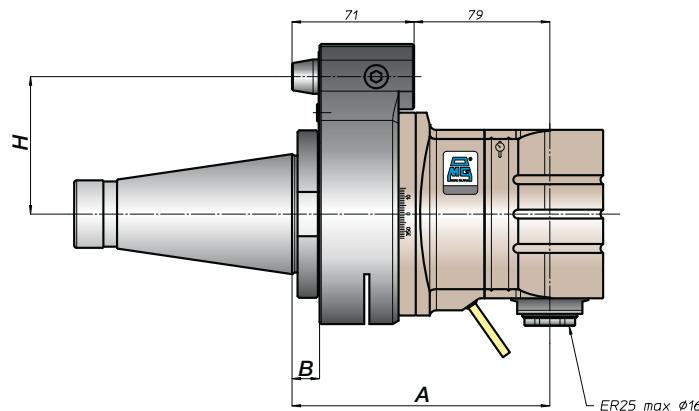
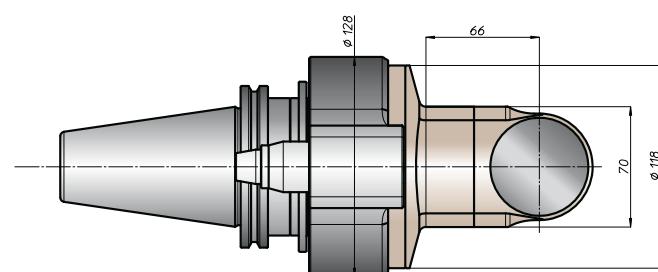
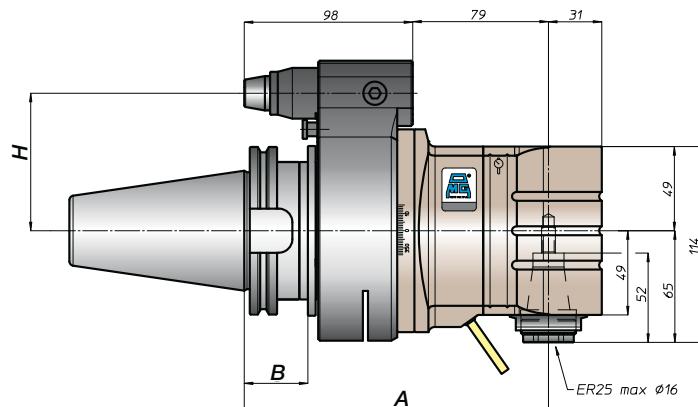
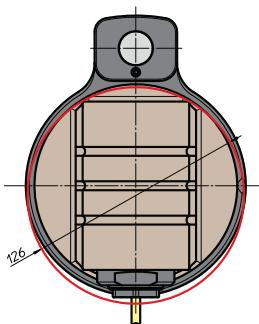


## prestazioni/performances



## tipi mandrino/spindle type

- 1** ER32    **2** Ø16-Ø27-Ø32    **3** Ø20    **4** HSK32    **6** ABS32



CONO SHANK	size	A	B	H	standard	optional
DIN9871	-	172	35	65	80	110
	40			80		
	45			177		
	50			177		
ANSIB5.50	40	172	65	65	80	110
	50	177		80		
	BT	172		185		
	50	185		43	80	110
HSK	63	181	44	65	80	110
	80	186	46	80		
	100	186	46	80		
CAPTO	C5	176	65	65	80	110
	C6	181		80		
	C8	181		80		
KM	63	172	65	65	80	110
	80	177		177		
	100	177		147	13	65
DIN2080	-	147	13	65	80	110
	40			150		
	-			150	16	80
	50			150	16	110
ANSIB5.18	40	-	13	65	80	110
	50	150	16	80		

# TA16.PL



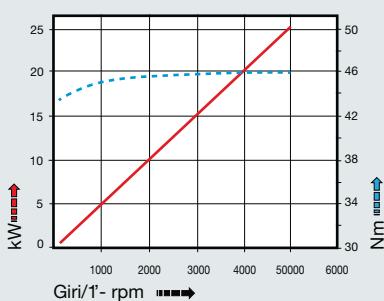
## caratteristiche/features

	ø 16
	M12
	1-1
	5000

## peso/weight



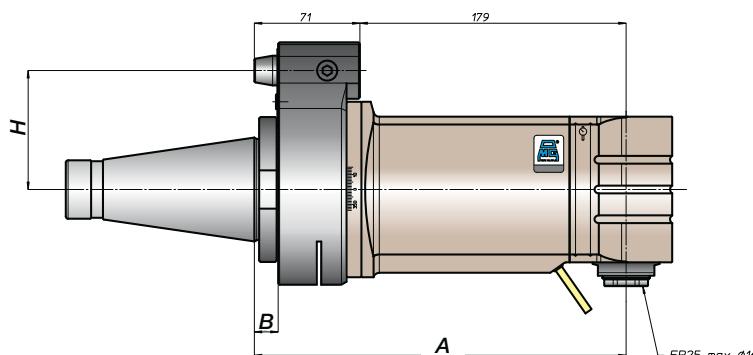
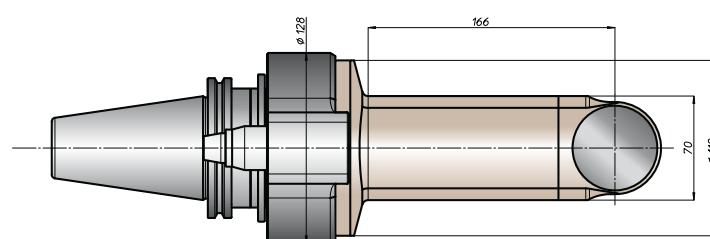
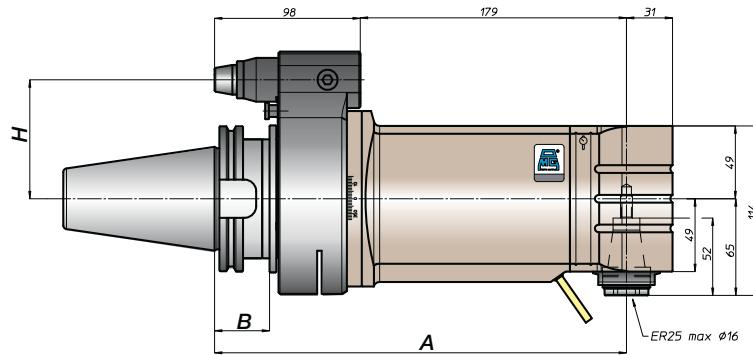
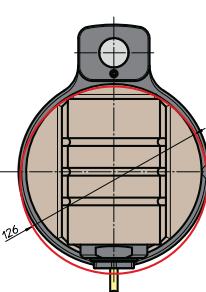
## prestazioni/performances



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871	-	-	-	-	-
	45	277	-	80	110
	50	-	-	35	-
CAT	-	-	-	-	-
ANSIB5.50	50	277	-	80	110
	50	272	-	65	-
BT	40	272	-	-	-
	50	285	43	80	110
	50	-	-	-	-
HSK	63	281	44	65	-
	80	286	46	80	110
	100	-	-	-	-
ISO26623	C5	276	-	65	-
	C6	281	-	80	110
	C8	-	-	-	-
KM	63	272	-	65	-
	80	277	-	80	110
	100	-	-	-	-
DIN2080	-	-	-	-	-
	-	-	-	-	-
	-	250	16	80	110
	50	-	-	-	-
NMTB	-	-	-	-	-
ANSIS5.18	50	250	16	80	110
	50	-	-	-	-

## tipi mandrino/spindle type

- 1 ER32    2 Ø16-Ø27-Ø32    3 Ø20    4 HSK32    6 ABS32



TA

MO

HT

VH

TSI/TSX

MT-Tc-Tc3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

# TA20.P



## caratteristiche/features

- - 
  - 
  -
- ø 20      M14  
1-1      3500

## peso/weight



14,5 kg

## rotazione/rotation

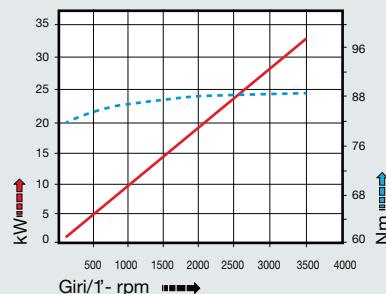


input



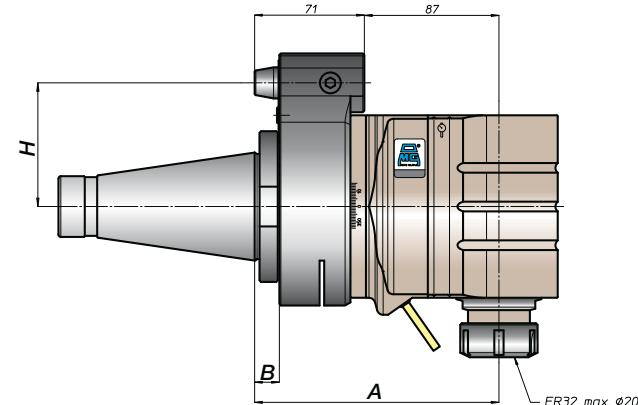
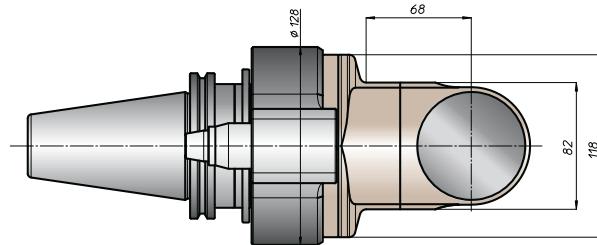
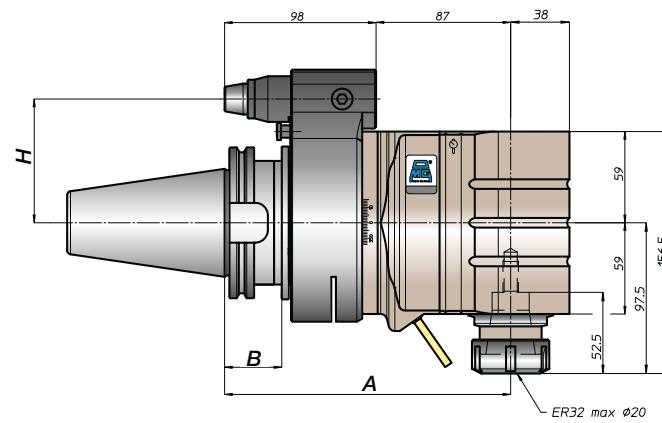
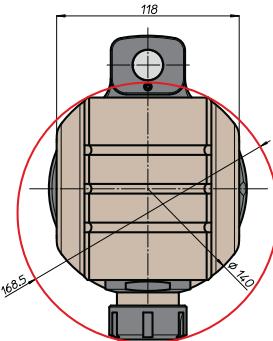
output

## prestazioni/performances



## tipi mandrino/spindle type

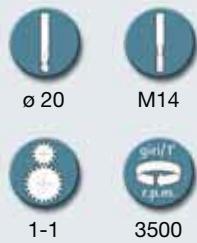
- 1** ER40    **2** Ø22-Ø27-Ø32    **3** Ø20-Ø25    **4** HSK40    **6** ABS40



CONO SHANK	size	A	B	H	standard	optional
DIN9871	-				-	-
CAT	45				80	110
ANSIB5.50	50			185	-	-
BT	50				80	110
HSK	-				-	-
DIN69893	80			194	46	80 110
	100					
CAPTO	C6			189	-	
ISO26623	C8				80	110
KM	-				-	
DIN2080	80			185		
	100				80	110
NMTB	-				-	-
ANSIS5.18	50			158	16	80 110

# TA20.30

## caratteristiche/features



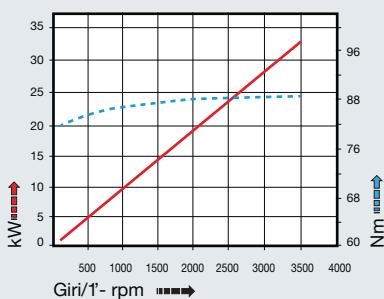
## peso/weight



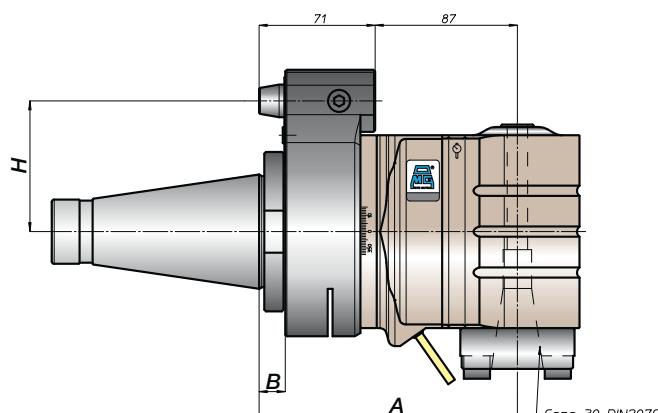
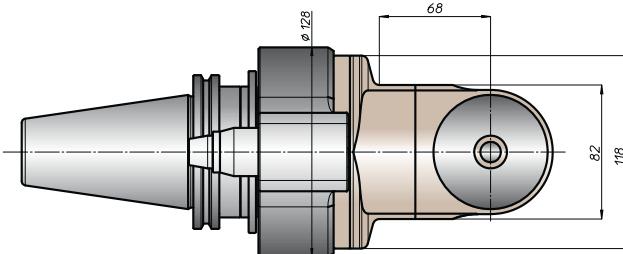
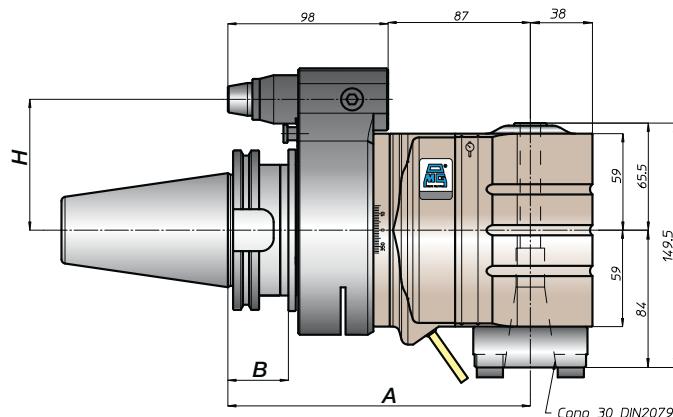
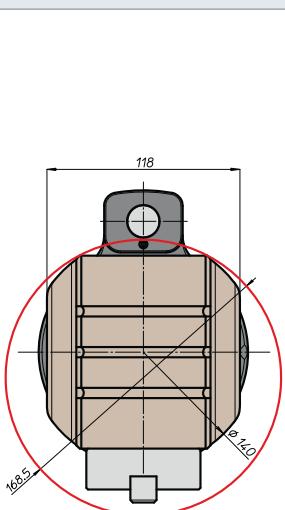
## rotazione/rotation



## prestazioni/performances



CONO SHANK	size	A	B	standard	optional
DIN69871	-			-	-
CAT	-	45	185	35	80 110
ANSI B5.50	-	50	185	35	65 -
BT	-			-	
	50	193	43	80	110
DIN69893	-			-	
HSK	-	80	194	46	80 110
	100	185			
ISO26623	-			-	
CAPTO	-	C6	189		80 110
	C8	189			
KM	-			-	
	80	185			80 110
	100	185			
DIN2080	-			-	-
	-			-	-
	-			-	-
	50	158	16	80	110
ANSI B5.18	-			-	-
NMTB	-	50	158	16	80 110



TA

MO

HT

VH

TSI/TSX

MT-Tc-Tc3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

# TA26.P



## caratteristiche/features

- ø 26
- M20
- 1-1
- 2500

## peso/weight



22 kg

## rotazione/rotation

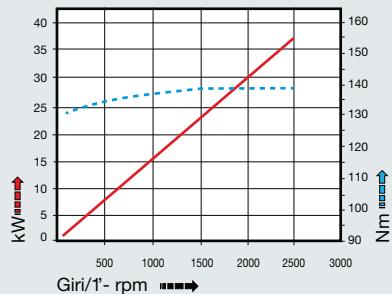


input

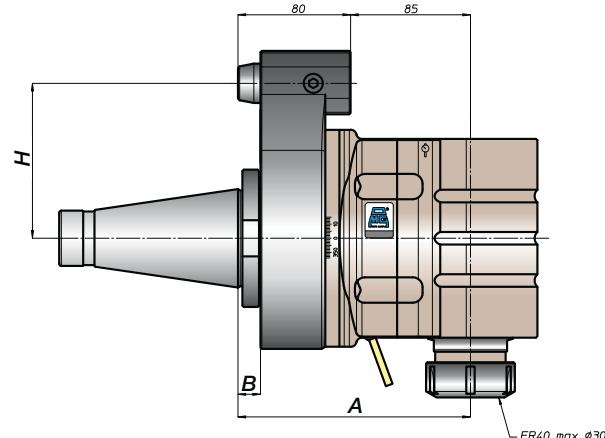
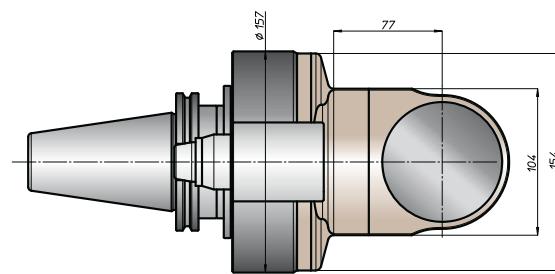
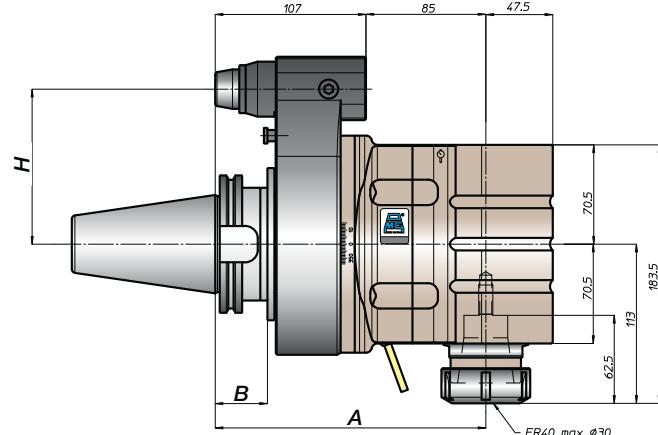
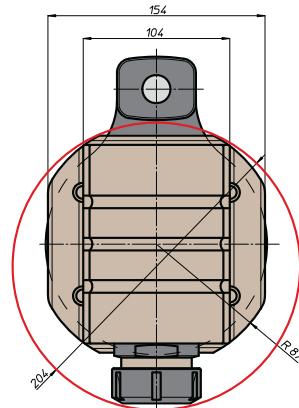


output

## prestazioni/performances



## tipi mandrino/spindle type

**2** Ø16-Ø27-Ø32**3** Ø32**4** HSK63**6** ABS50

CONO SHANK	size	A	B	H
DIN9871	-	-	-	Standard -
CAT	45	50	192	35 H110 -
ANSIB5.50	-	50	-	-
BT	-	50	200	43 H110 -
HSK	-	-	-	-
DIN69893	80	100	201	46 H110 -
CAPTO	-	-	196	-
ISO26623	C8	-	-	110 -
KM	-	-	192	-
DIN2080	100	-	-	110 -
NMTB	-	-	-	-
ANSIB5.18	50	165	16	110 -

# TA26.40

## caratteristiche/features



ø 26



M20



1-1



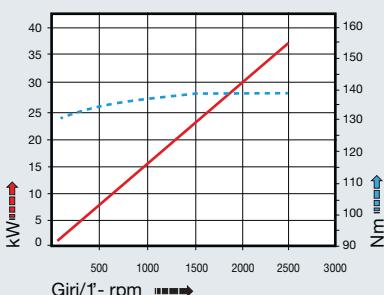
2500

## peso/weight

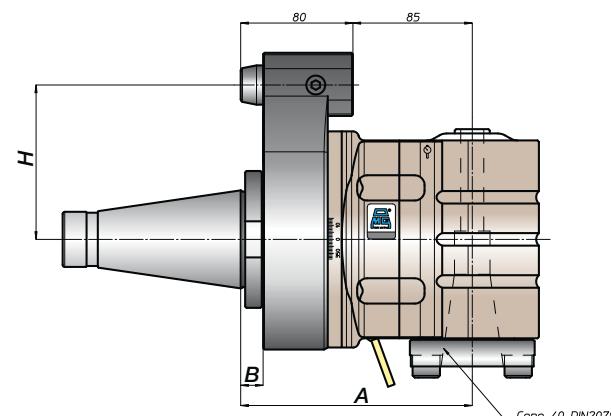
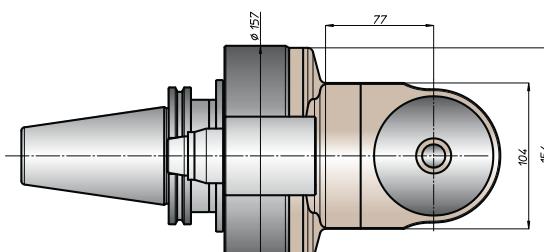
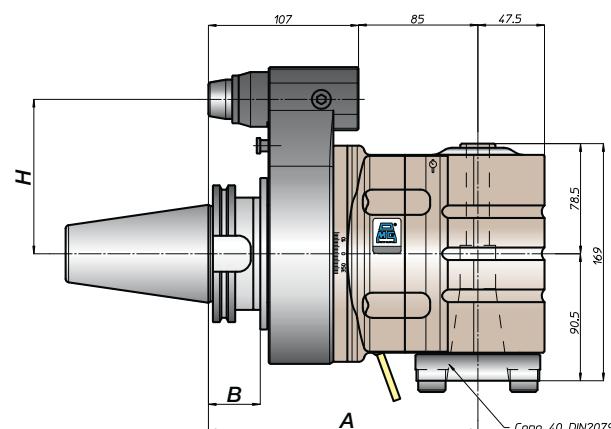
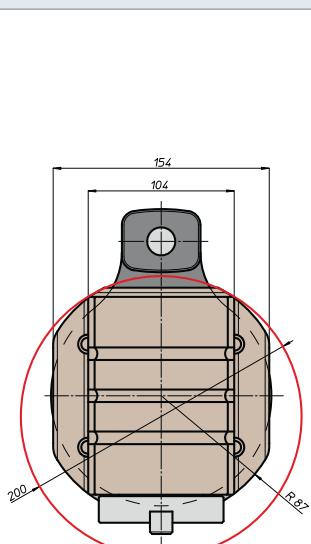


22 kg

## prestazioni/performances

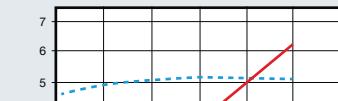


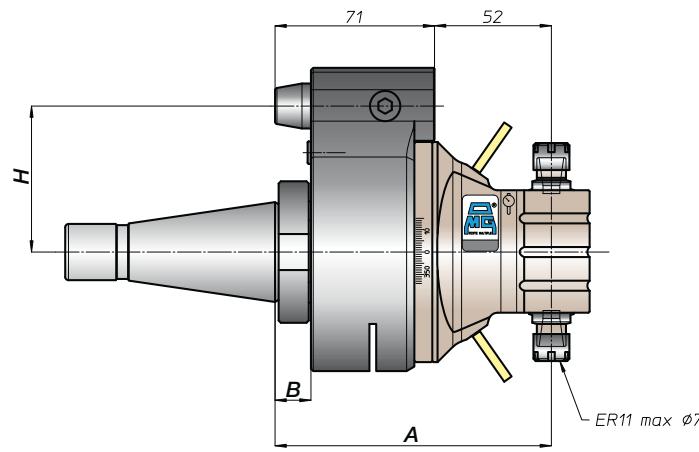
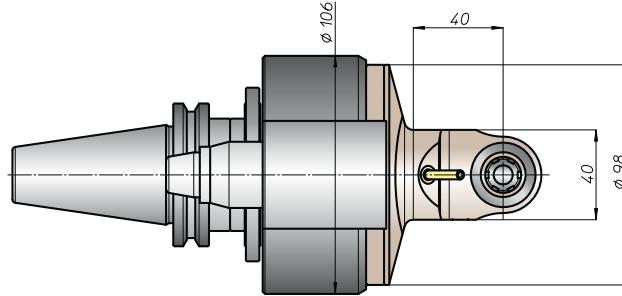
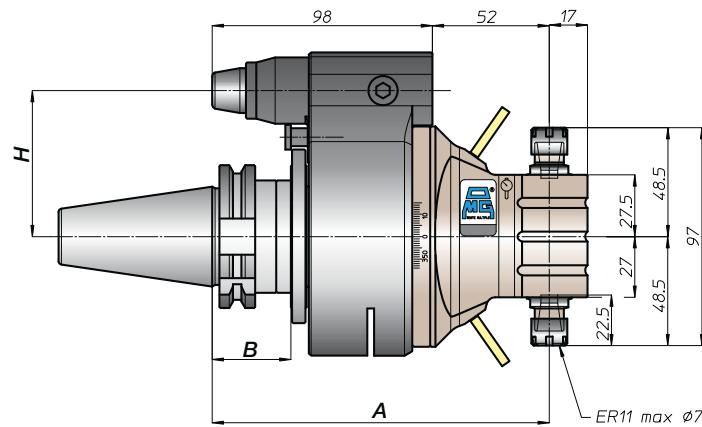
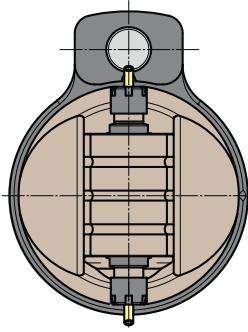
CONO SHANK	size	A	B	standard	optional
DIN69871	-			-	-
	-			-	-
	45			110	-
ANSI5.50	50	192	35		
	50			110	-
BT	-			-	-
	50	200	43	110	-
DIN69893	-			-	-
	80	201	46	110	-
	100				
ISO26623	-			-	-
	-	196		110	-
	C8				
KM	-			-	-
	-	192		110	-
	100				
DIN2080	-			-	-
	-			-	-
	-			-	-
	50	165	16	110	-
ANSI5.18	-			-	-
	50	165	16	110	-



# TA07.2P



caratteristiche/features	peso/weight	prestazioni/performances		
 Ø 7	 M6	 5 kg	 7 kg	 <p>Graph showing torque (Nm) vs RPM. The red curve represents the motor's torque output, which increases with RPM. The blue dashed line indicates a constant torque requirement of 5 Nm. The intersection point at approximately 8000 RPM indicates the operating point of the motor.</p>
 1-1	 10000	<b>rotazione/rotation</b>  input	 output	 <p>Graph showing power (kW) vs RPM. The red curve represents the motor's power output, which increases with RPM. The blue dashed line indicates a constant power requirement of 5 kW. The intersection point at approximately 8000 RPM indicates the operating point of the motor.</p>



					<i>H</i>
<i>CONO SHANK</i>	<i>size</i>	<i>A</i>	<i>B</i>	<i>standard</i>	<i>Optional</i>
DIN69871	30	150	35	65	-
	40			80	110
	45				
	50				
ANSI5.50	CAT	40	65	65	-
				80	110
BT	40	158	43	65	
	50			80	110
DIN69893	HSK	63	44	65	
				80	110
ISO28623	CAPTO	C5	154	65	
				80	110
KM	63	150	13	65	
	80			80	110
	100				
DIN2080	-	120	13	65	-
	40				
	-				
	50				
ANSI5.18	NMTB	40	120	13	65
		50	123	16	80 110

# TA10.2P

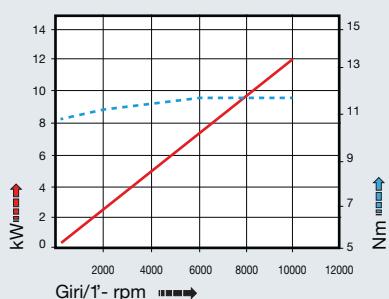
## caratteristiche/features



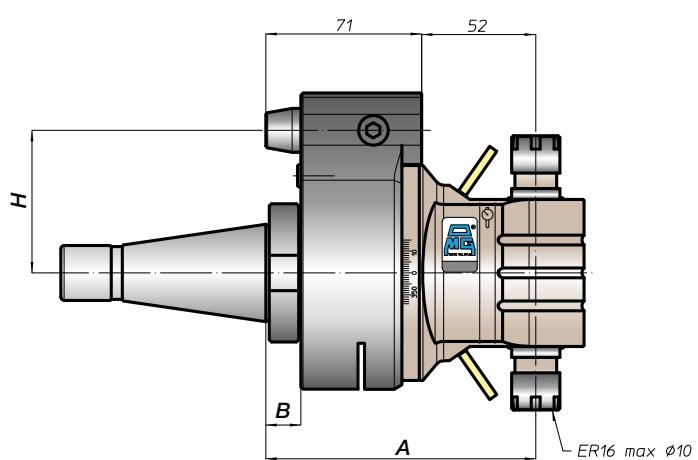
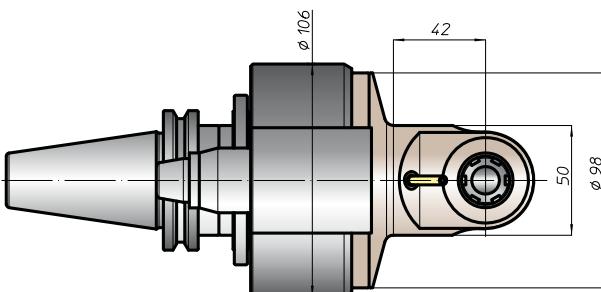
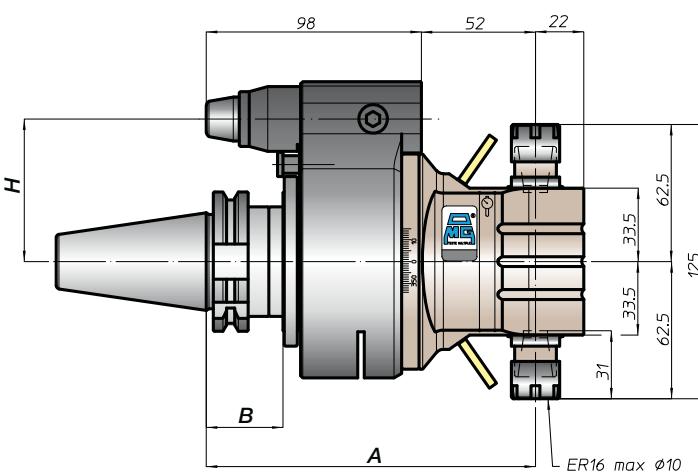
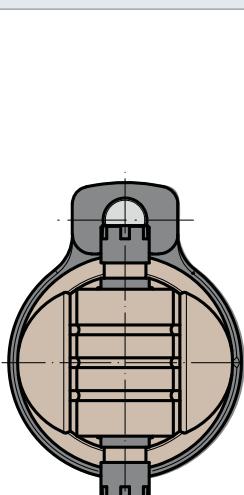
## peso/weight



## prestazioni/performances



	size	A	B	standard	optional	H
DIN69871 CONO SHANK	30			65	-	
	40					
	45					
	50	150	35	80	110	
	CAT			65	-	
	40					
ANSI B5.50	50			80	110	
	BT					
	40			65		
	50	158	43	80	110	
	HSK					
	63			44	65	
DIN69893 ISO26623	80	159		46	80	110
	CAPTO					
	C5			65		
	C6	154			80	110
	C8					
	KM					
DIN2080	63			65		
	80	150				
	100			80	110	
	-					
	40	120	13	65	-	
	-					
ANSI B5.18 NMTB	123		16	80	110	
	50					
	40	120	13	65	-	
	50	123	16	80	110	



# TA13.2P



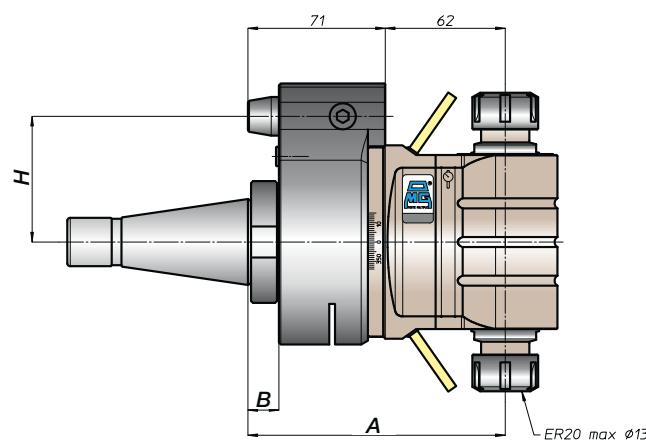
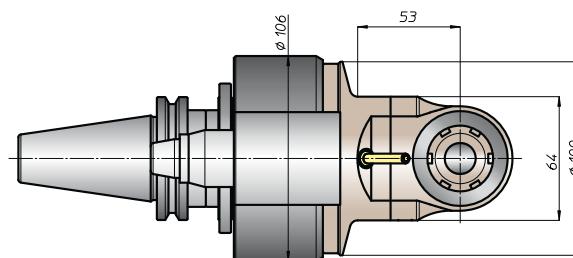
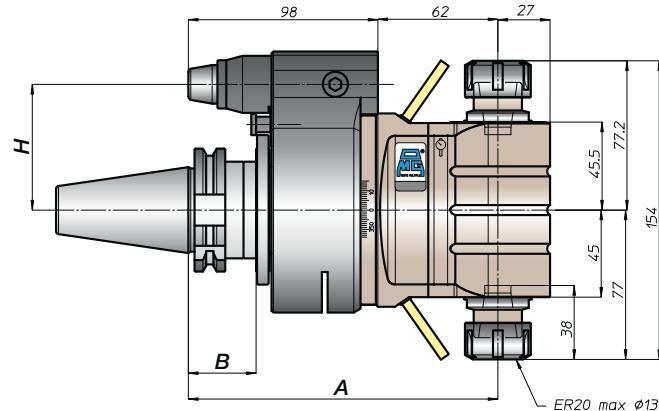
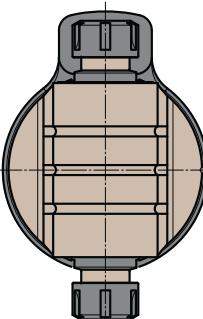
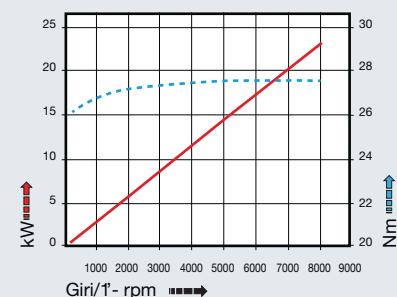
## caratteristiche/features

- ø 13
- M10
- 1-1
- 8000

## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	H standard	H optional
DIN9871	-			65	-
	40			80	110
	45			65	-
	50	160	35	80	110
ANSIB5.50	40			65	-
	50			80	110
BT	40			65	-
	50	168	43	80	110
HSK	63			65	-
	80			80	110
	100	169	46	80	110
DIN69893				65	-
CAPTO	C5			65	-
	C6			80	110
	C8	164		65	-
KM	63			65	-
	80			80	110
	100	160		65	-
DIN2080	-			130	13
	40			133	16
	-			80	110
	50			65	-
ANSIB5.18	40	130	13	65	-
	50	133	16	80	110

# TA16.2P

## caratteristiche/features



Φ 16



M12



1-1



5000

## peso/weight



40



50

## rotazione/rotation

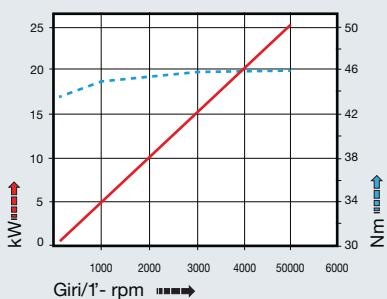


input

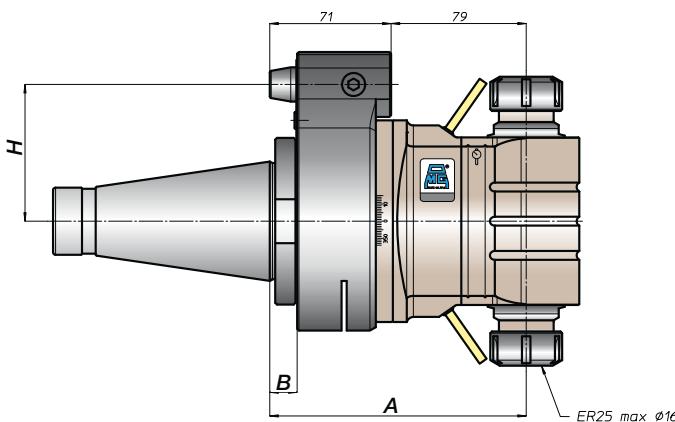
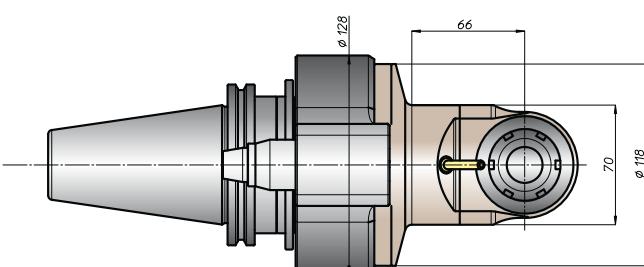
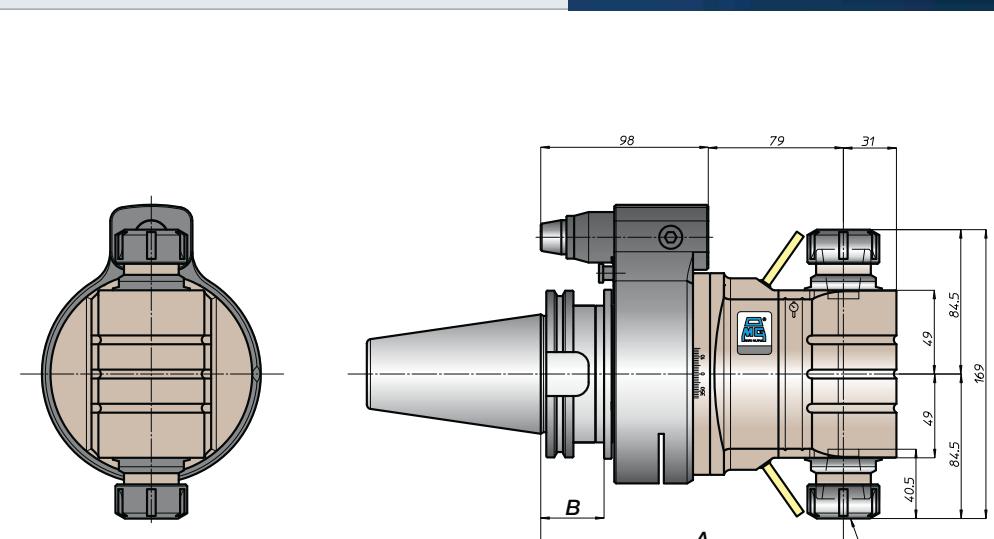


output

## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871	-	172		35	65	-
	40				80	110
	45	177			65	-
	50				80	110
ANSIB5.50	40	172			65	-
	50	177			80	110
BT	40	172		43	80	110
	50	185			65	
HSK	63	181	44	65		
	80	186	46	80	110	
	100					
ISO26623	C5	176		80	65	
	C6				80	110
	C8	181				
KM	63	172		80	65	
	80	177			80	110
	100					
DIN2080	-	147	13	65		-
	40					
	-	150	16	80	110	
	50					
ANSIS.18	40	-	13	65		-
	50	150	16	80	110	



# TA20.2P



## caratteristiche/features

- ø 20
- M14
- 1-1
- 3500

## peso/weight



15 kg

## rotazione/rotation

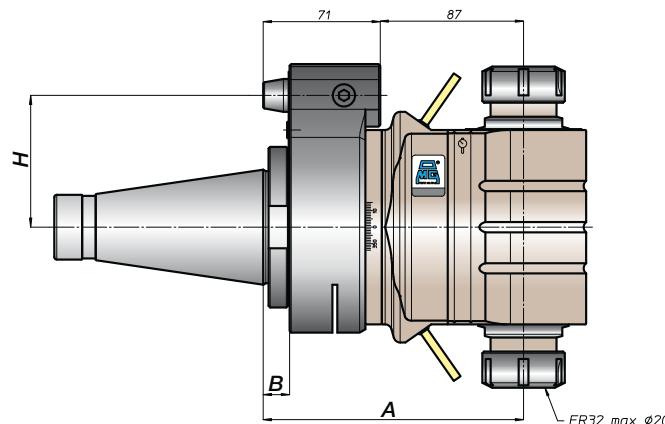
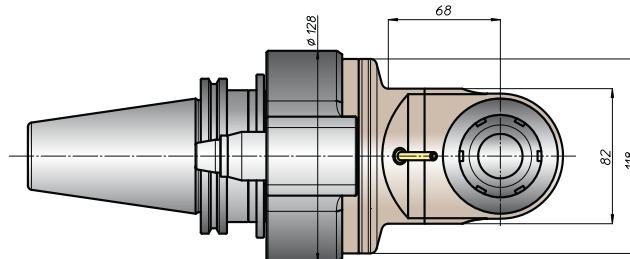
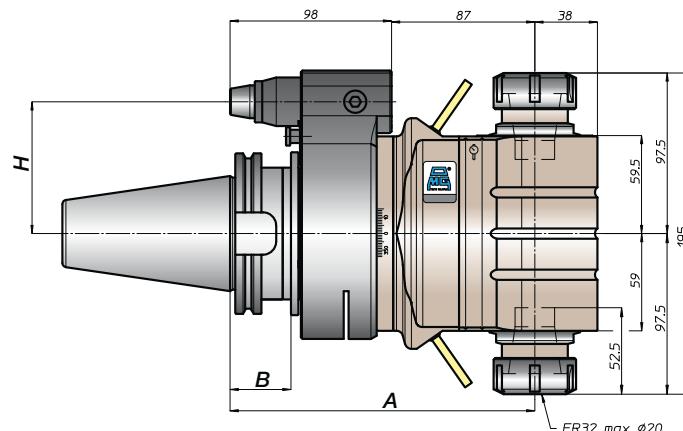
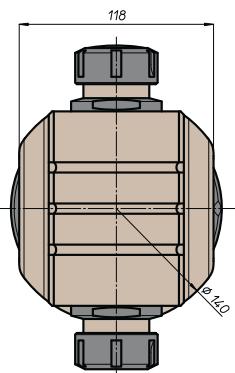
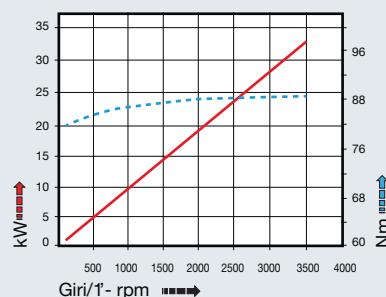


input



output

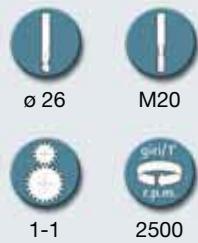
## prestazioni/performances



CONO SHANK	size	A	B	H
DIN9871	-			standard optional
CAT	45			80 110
ANSIB5.50	50	185		- -
BT	-			80 110
HSK	50	193	43	80 110
DIN69893	-			
CAPTO	80	194	46	80 110
ISO26623	100			- -
KM	-			80 110
DIN2080	C6	189		
NMTB	C8			80 110
ANSIB5.18	80	185		- -
	100			80 110
	-			
	-			
	-			
	50	158	16	80 110
	-			- -
	-			80 110

# TA26.2P

## caratteristiche/features



## peso/weight



22,5 kg

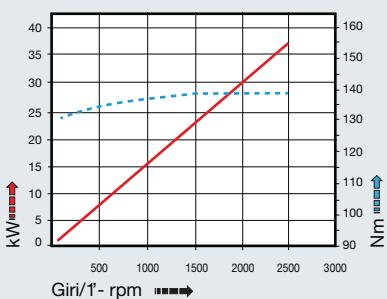
## rotazione/rotation



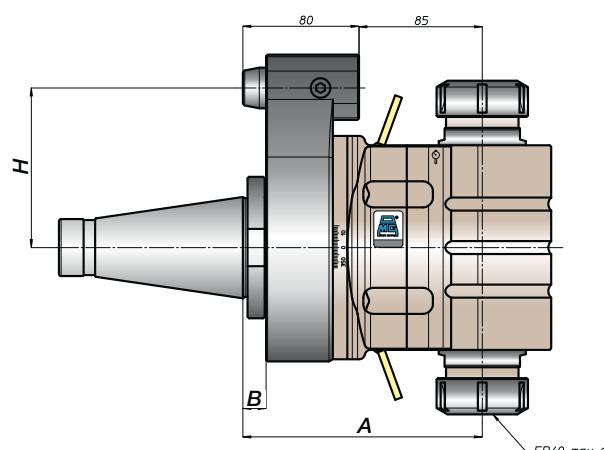
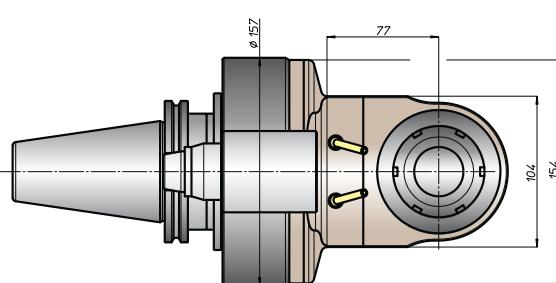
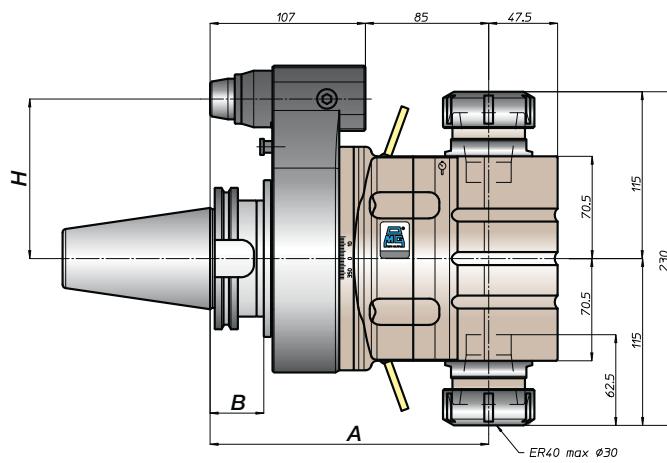
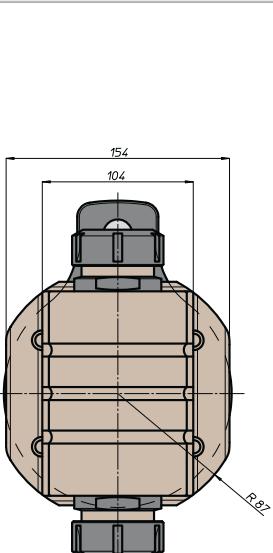
input



## prestazioni/performances



CONO SHANK	size	A	B	standard	H	optional
DIN69871	-	-	-	-	-	-
CAT	-	-	-	-	-	-
BT	-	-	-	-	-	-
DIN69893	-	-	-	-	-	-
ISO26623	-	-	-	-	-	-
KM	-	-	-	-	-	-
DIN2080	-	-	-	-	-	-
ANSIB5.18	-	-	-	-	-	-
	50	165	16	110	-	-



## TA07.PD



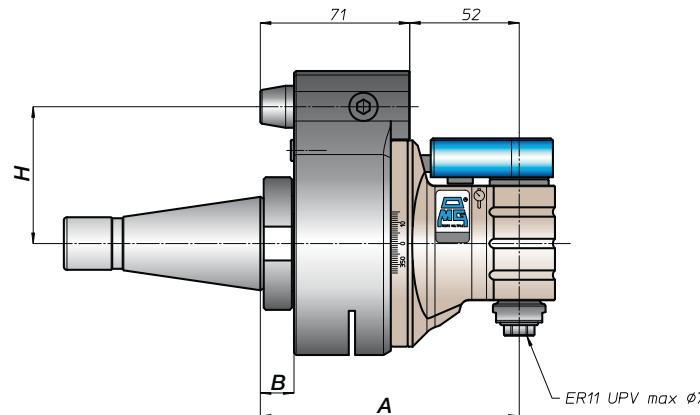
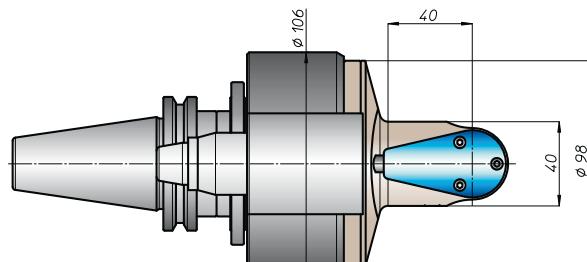
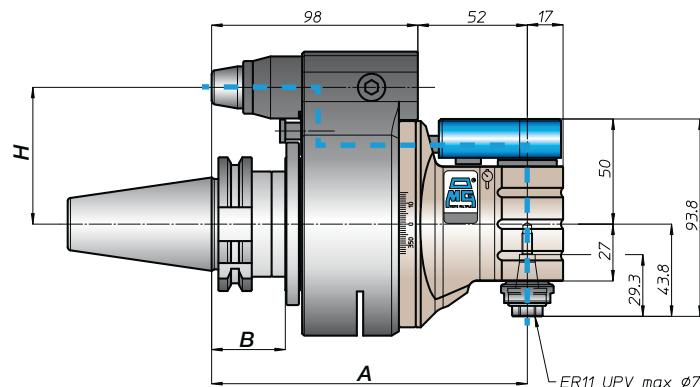
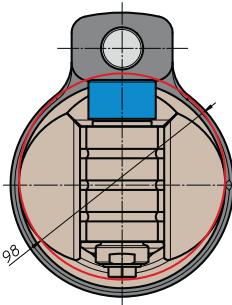
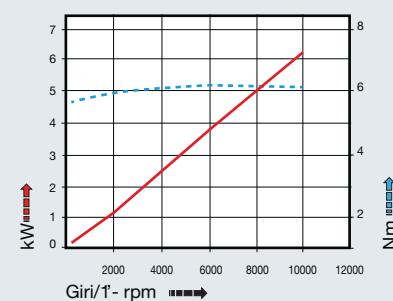
## caratteristiche/features



## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	H standard	H optional
DIN9871	30			65	-
	40			80	110
	45				
	50	150	35		
ANSIB5.50	40			65	-
	50			80	110
BT	40			65	
	50	158	43	80	110
HSK	63			65	
	80			80	110
	100	159	46		
DIN69893					
CAPTO	C5			65	
	C6			80	110
	C8	154			
KM	63			65	
	80			80	110
	100	150			
DIN2080					
NMTB	40	120	13	65	-
	50	123	16	80	110
ANSIB5.18	40	120	13	65	-
	50	123	16	80	110

# TA07.PDL

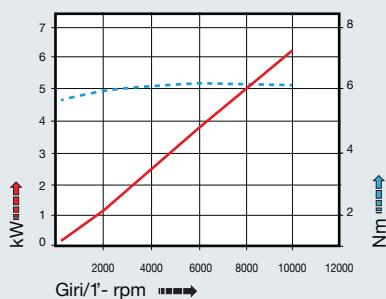
## caratteristiche/features



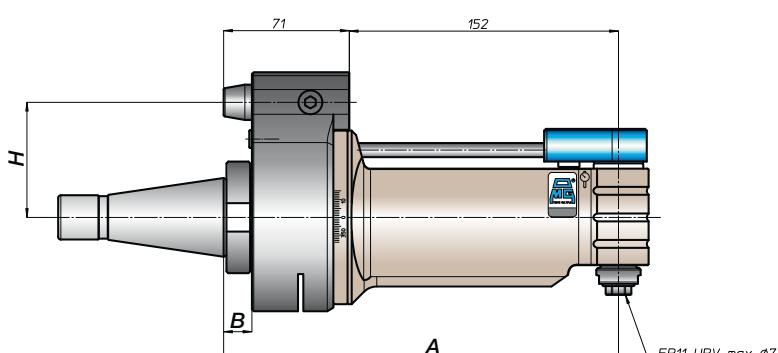
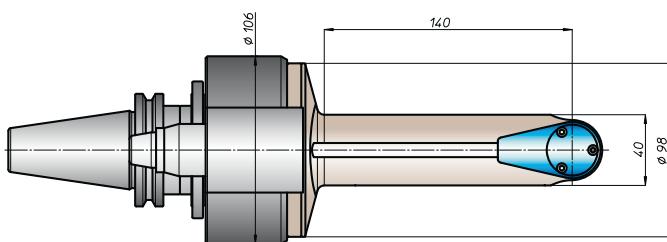
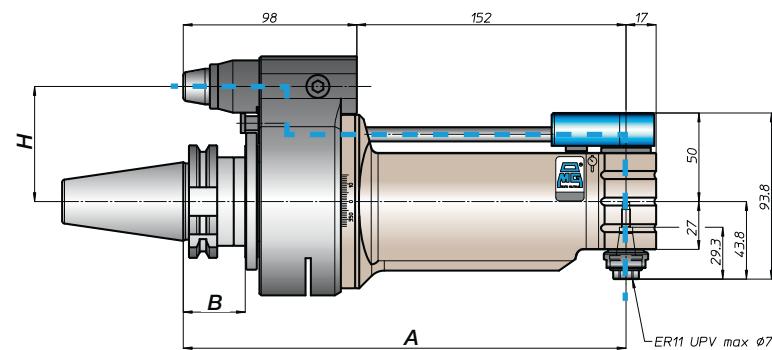
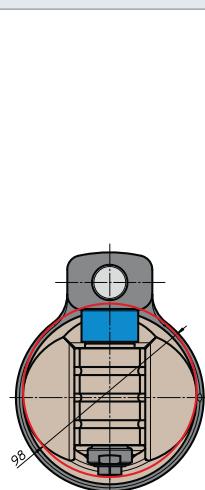
## peso/weight



## prestazioni/performances



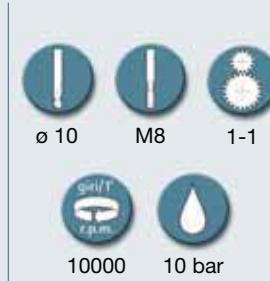
CONO SHANK	size	A	B	standard	optional
DIN9871	-			65	-
	40				
	45				
	50	250	35	80	110
	CAT			65	-
ANSIB5.50	40				
	50				
	BT				
DIN6993	40			65	
	50	258	43	80	110
	63				
	80	259	44	65	
ISO26623	100				
	C5				
	C6	254		65	
KM	C8				
	63				
	80	250			
DIN2080	100			80	110
	-				
	40	220	13	65	-
ANSIS5.18	-				
	50	223	16	80	110
	NMTB				
40	220	13	65	-	
	50	223	16	80	110



## TA10.PD



## caratteristiche/features



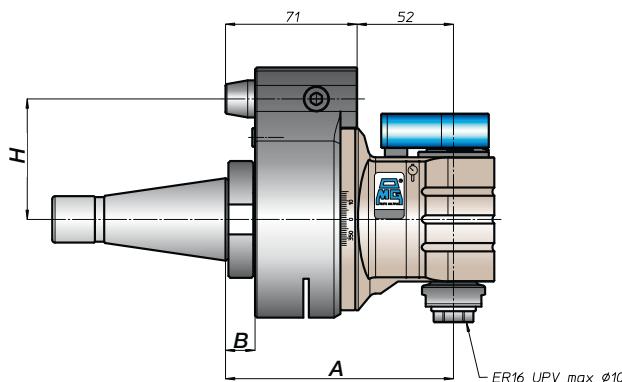
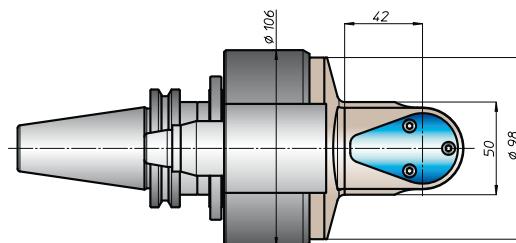
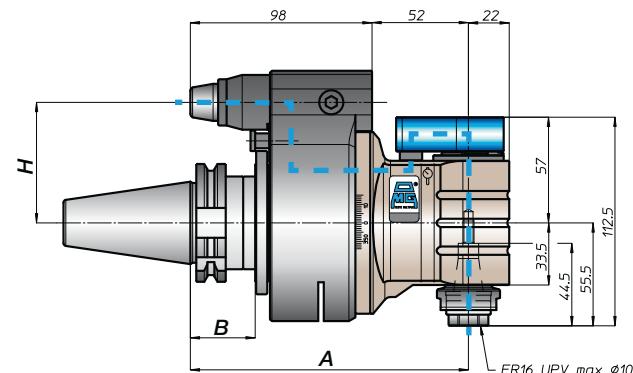
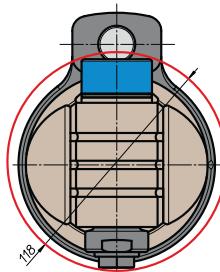
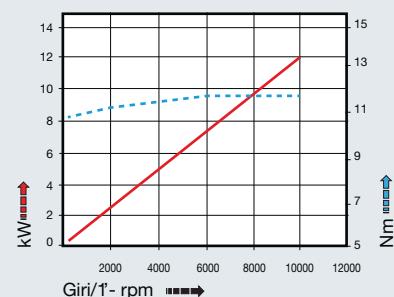
## peso/weight



## rotazione/rotation



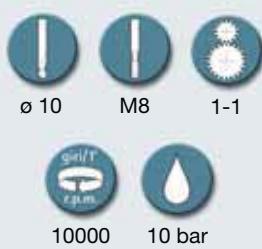
## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN9871	30			65	-	
	40			80	110	
	45			65	-	
	50	150	35	80	110	
ANSIB5.50	40			65	-	
	50			80	110	
BT	40			65		
	50	158	43	80	110	
HSK	63			65		
	80	159	46	80	110	
	100			65		
DIN69893				80	110	
CAPTO	C5			65		
	C6	154		80	110	
	C8			65		
KM	63			65		
	80	150		80	110	
	100			65		
DIN2080	-			120	13	65
	40			123	16	80
	-			123	16	110
	50			120	13	65
NMTB	40	120	13	65	-	
ANSIS5.18	50	123	16	80	110	

# TA10.PDL

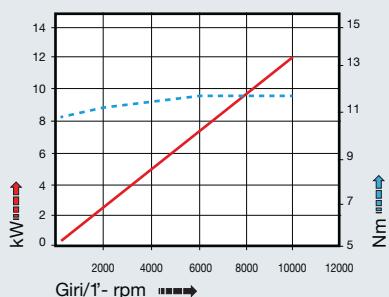
## caratteristiche/features



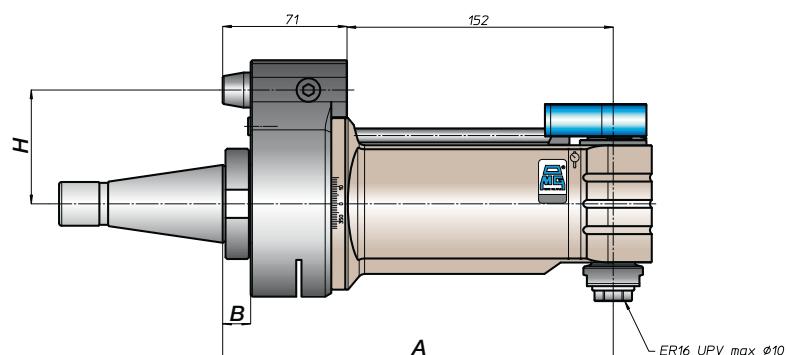
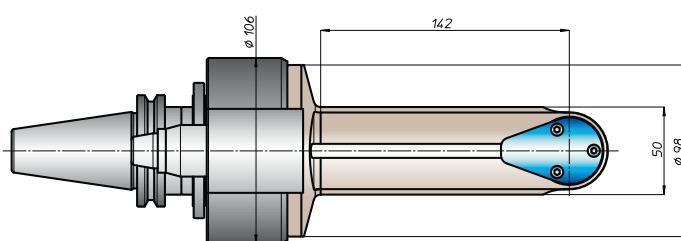
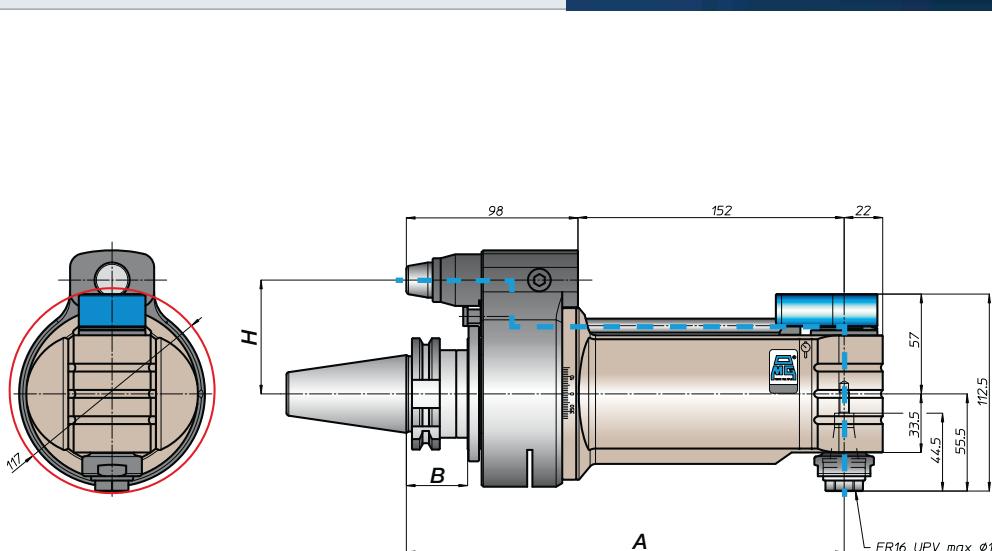
## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	standard	optional
DIN9871	-			65	-
	40				
	45				
	50	250	35	80	110
	CAT			65	-
ANSIB5.50	40				
	50				
	BT				
DIN6993	40			65	
	50	258	43	80	110
	HSK				
ISO26623	63		44	65	
	80	259	46	80	110
	100				
CAPTO	C5			65	
	C6	284			
	C8			80	110
KM	63			65	
	80	250			
	100			80	110
DIN2080	-			65	-
	40	220	13	65	
	-	223	16	80	110
	50				
ANSIS5.18	40	220	13	65	-
	50	223	16	80	110



TA

MO

HT

VH

TSI/TSX

MT-TC-TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

# TA13.PD



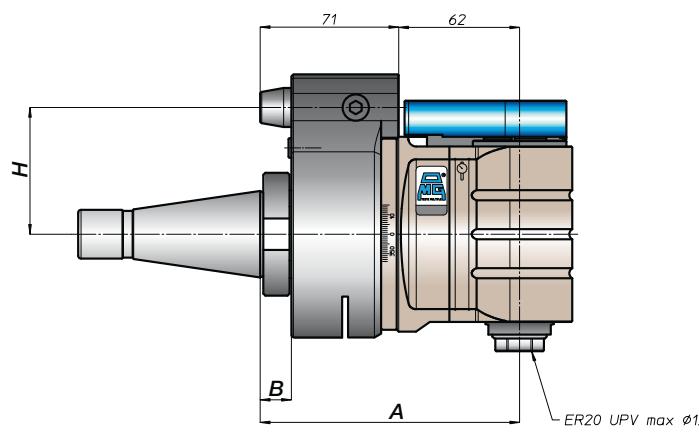
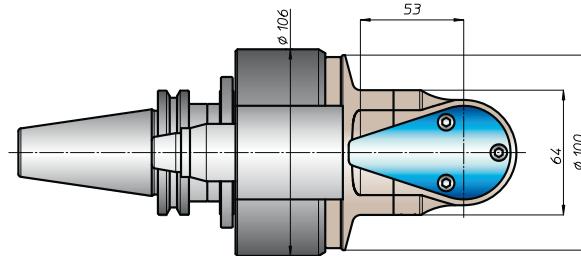
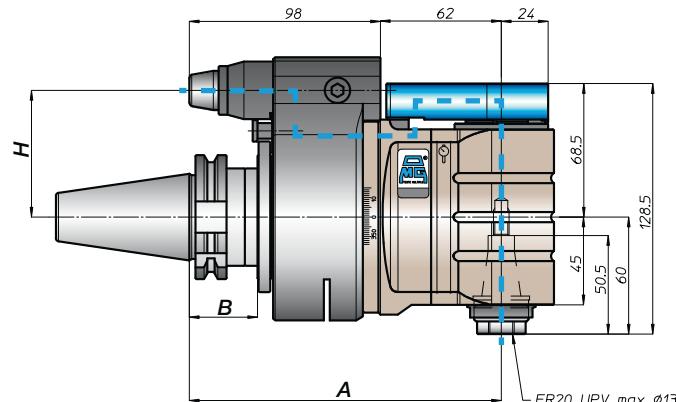
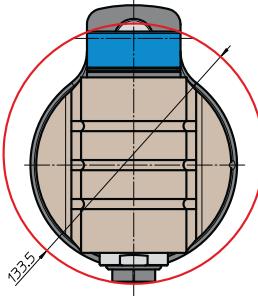
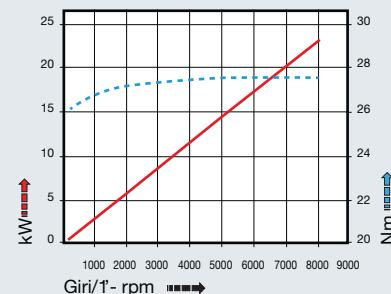
## caratteristiche/features

- ø 13
- M10
- 1-1
- 8000
- 10 bar

## peso/weight

- |                    |        |
|--------------------|--------|
| 40                 | 6,5 kg |
| 50                 | 9 kg   |
| rotazione/rotation |        |
| input              | output |

## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN9871	-			65	-	
	40			80	110	
	45			65	-	
	50	160	35	80	110	
ANSIB5.50	40			65	-	
	50			80	110	
BT	40			65		
	50	168	43	80	110	
HSK	63			65		
	80	169	46	80	110	
	100			65		
DIN69893				80	110	
CAPTO	C5			65		
	C6	164		80	110	
	C8			65		
KM	63			65		
	80	160		80	110	
	100			65		
DIN2080	-			130	13	65
	40			133	16	80
	-			133	16	110
	50			130	13	65
NMTB	40	130	13	65	-	
ANSIB5.18	50	133	16	80	110	

# TA16.PD

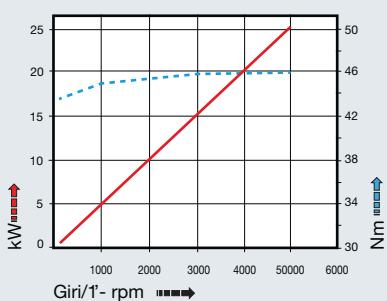
## caratteristiche/features



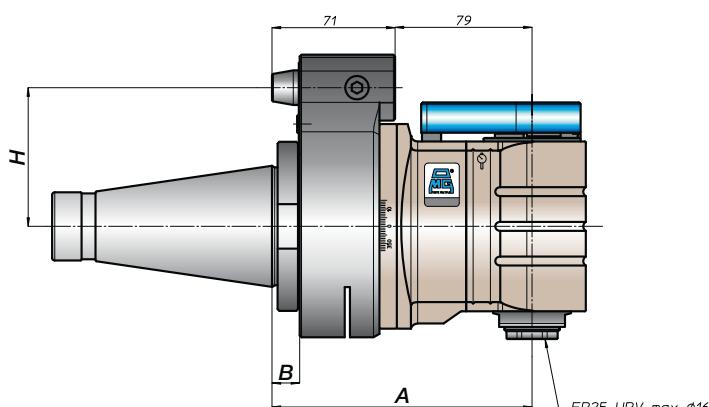
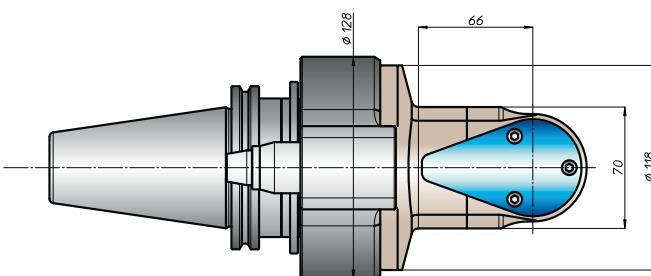
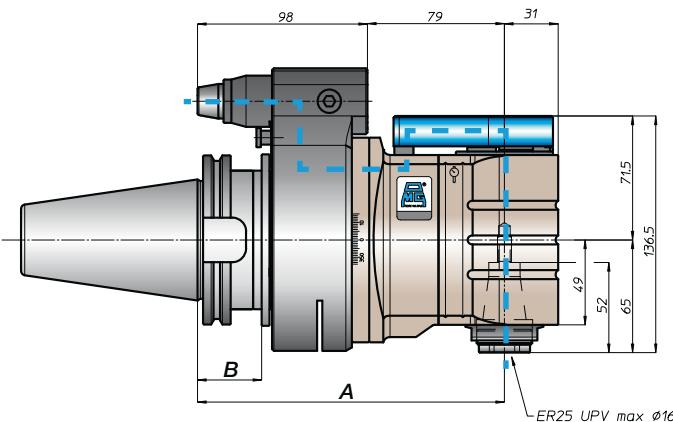
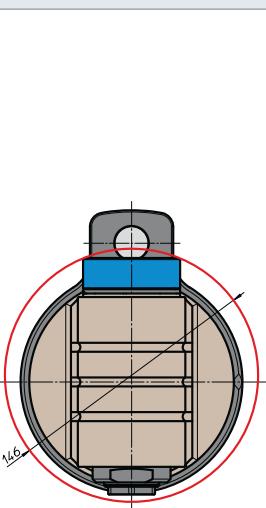
## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	standard	optional	H
DIN69871	-	172		65	-	35
	40					
	45	177		80	110	
	50					
ANSIB5.50	40	172		65	-	35
	50	177		80	110	
BT	40	172		65		35
	50	185	43	80	110	
DIN69893	63	181	44	65		35
	80	186	46	80	110	
	100					
ISO26623	C5	176		65		35
	C6					
	C8	181		80	110	
KM	63	172		65		35
	80	177		80	110	
	100					
DIN2080	-	147	13	65	-	35
	40					
	-	150	16	80	110	
	50					
ANSIS5.18	40	-	13	65	-	35
	50	150	16	80	110	



## TA20.PD



## caratteristiche/features

- ø 20
- M14
- 1-1
- 3500
- 10 bar

## peso/weight



14,5 kg

## rotazione/rotation

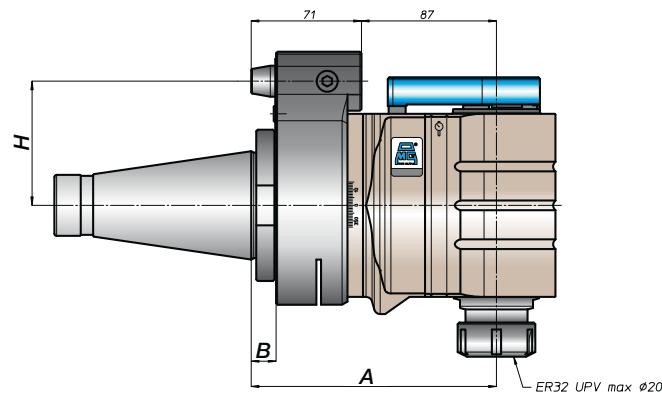
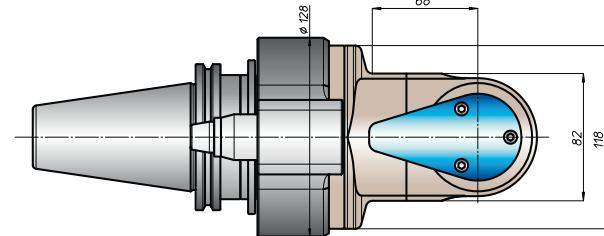
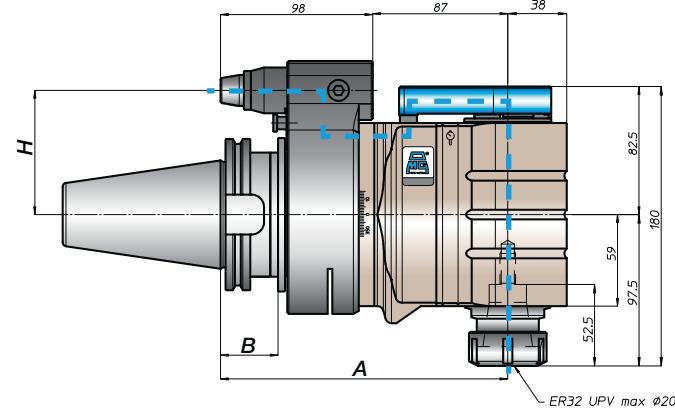
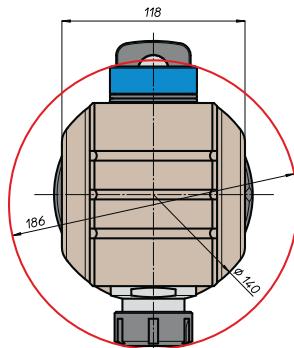
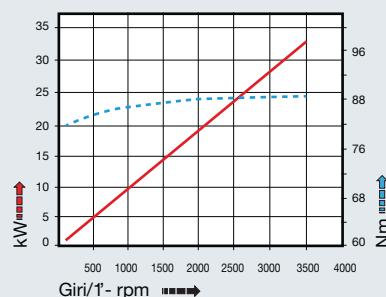


input



output

## prestazioni/performances



CONO SHANK	size	A	B	H standard	H optional
DIN9871	-			-	-
CAT	45			80	110
ANSIB5.50	50			-	-
BT	50	193	43	80	110
HSK	-			-	-
DIN69893	80	194	46	80	110
	100				
CAPTO	C6	189		-	
	C8			80	110
KM	-			-	-
	80	185		80	110
	100				
DIN2080	-			-	-
	-			158	16
	-			80	110
	50				
NMTB	-			-	-
ANSIB5.18	50	158	16	80	110

# TA26.PD

## caratteristiche/features



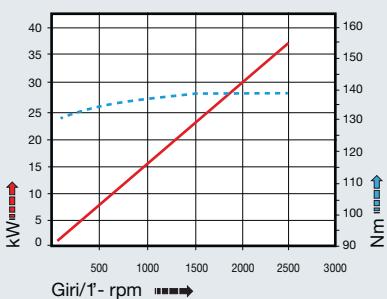
## peso/weight



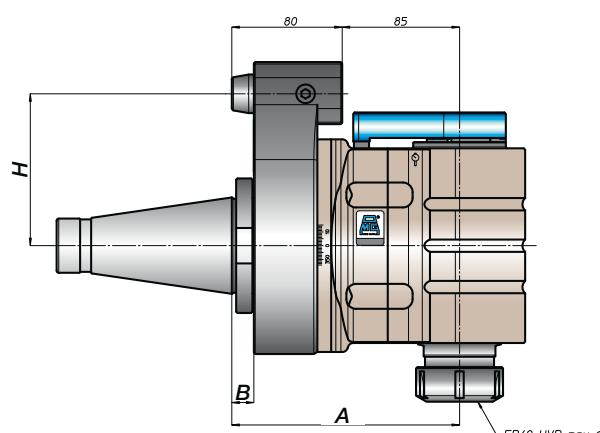
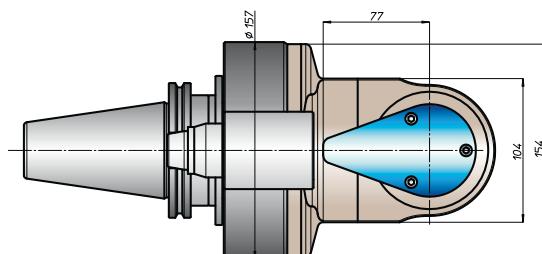
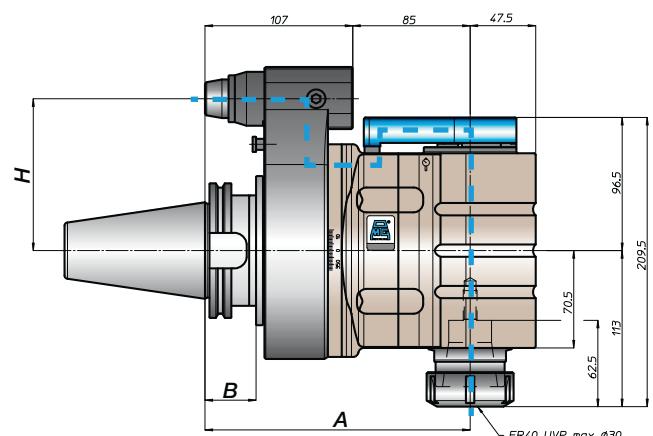
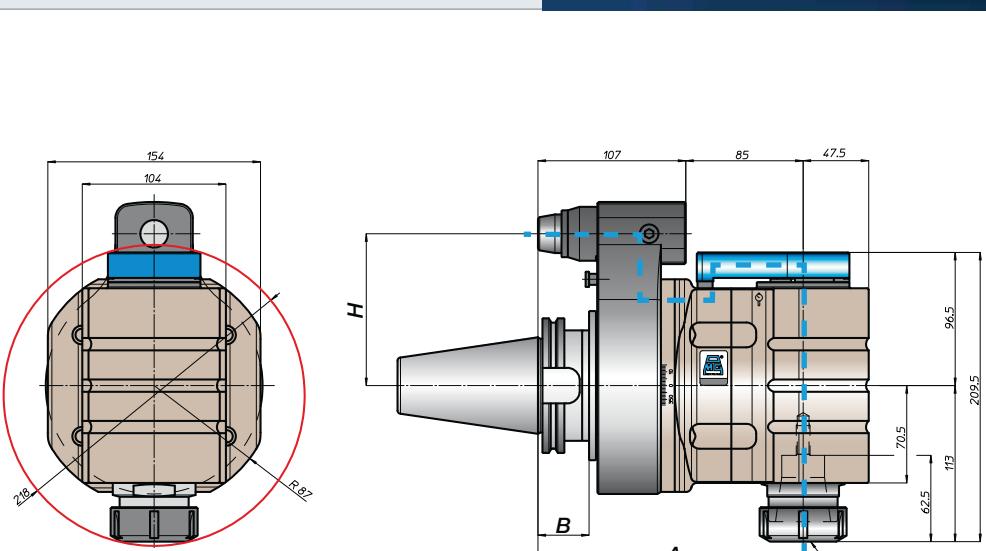
rotazione/rotation



## prestazioni/performances



	CONO SHANK	size	A	B	standard	H	optional
DIN69871		-			-		-
		-			-		-
		45					
CAT		50	192	35	110	-	-
ANSIB5.50		-			-		-
		50					
BT		-			-		-
		50	200	43	110	-	-
HSK		-			-		-
		80	201	46	110	-	-
		100					
CAPTO		-			-		-
		-	196				
		C8			110	-	-
KM		-			-		-
		-	192				
		100					
DIN2080		-			-		-
		-			-		-
		-			-		-
		50	165	16	110	-	-
ANSIB5.18		-			-		-
		50	165	16	110	-	-
NMTB							



# testa ad angolo - angle head

# TA26.40.D



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

## caratteristiche/features



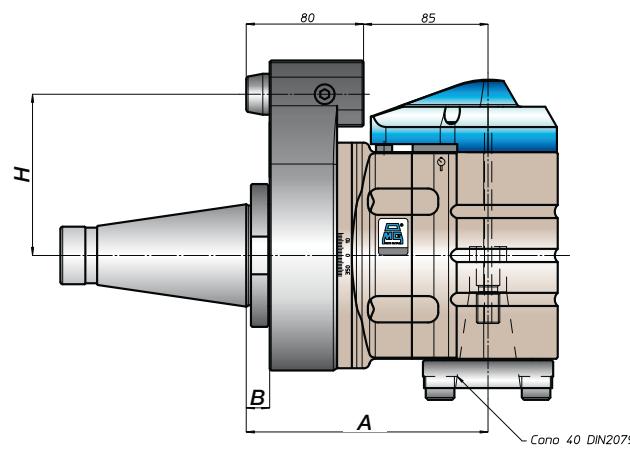
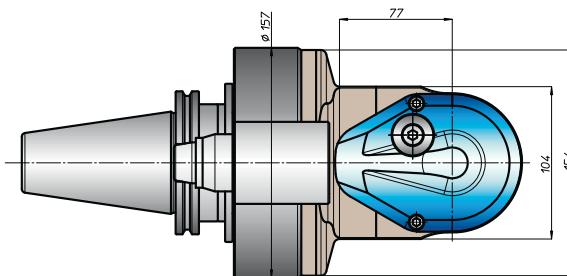
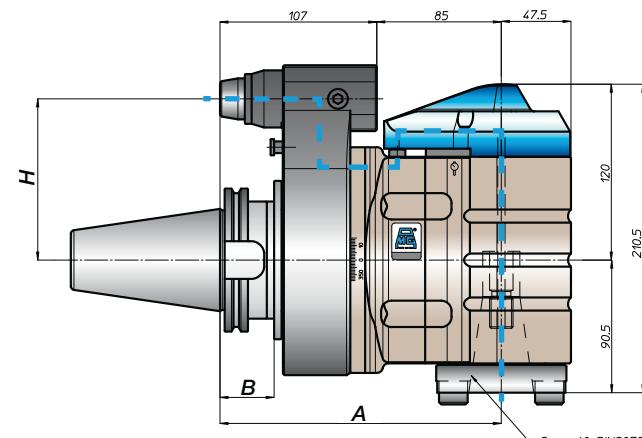
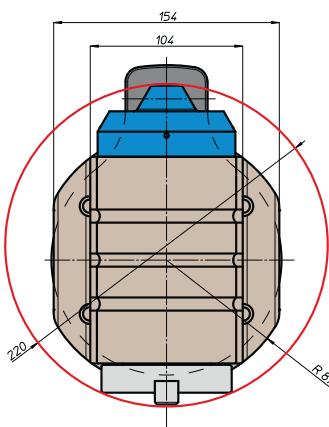
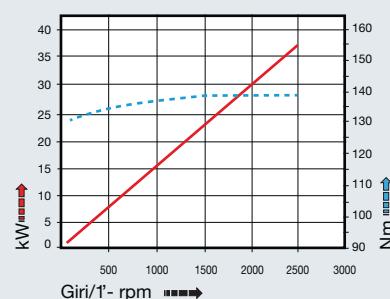
## peso/weight



rotazione/rotation



## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN9871	-	-	-	-	-	-
CAT	45	-	-	110	-	-
ANSIB5.50	50	192	35	-	-	-
BT	50	-	-	-	-	-
HSK	50	200	43	110	-	-
DIN69393	80	-	-	-	-	-
	100	201	46	110	-	-
CAPTO	-	-	-	-	-	-
ISO26623	-	-	196	-	-	-
KM	C8	-	-	110	-	-
	100	-	-	-	-	-
DIN2080	-	-	-	-	-	-
	50	165	16	110	-	-
NMTB	-	-	-	-	-	-
ANSIB5.18	50	165	16	110	-	-

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori  
Accessories

Appendice tecnica  
Technical supplement



# TAO10.P



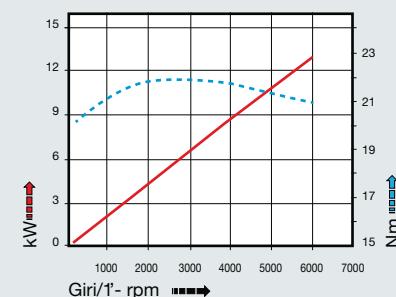
## caratteristiche/features

- ø 10
- M8
- 1-1
- 6000 rpm

## peso/weight

- |        |        |
|--------|--------|
|        | 40     |
|        | 50     |
| 6,2 kg | 8,7 kg |
- rotazione/rotation
- input      output

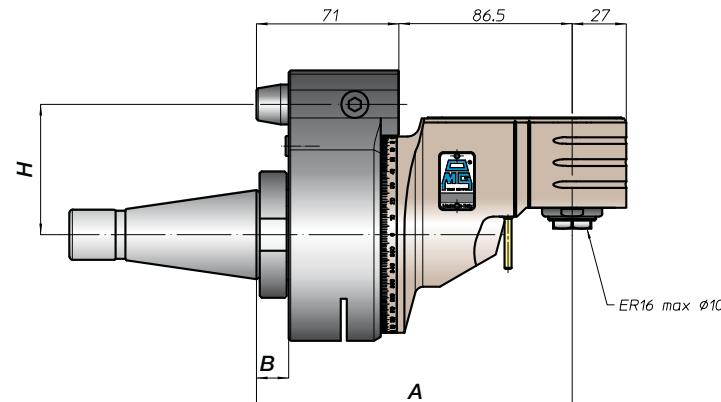
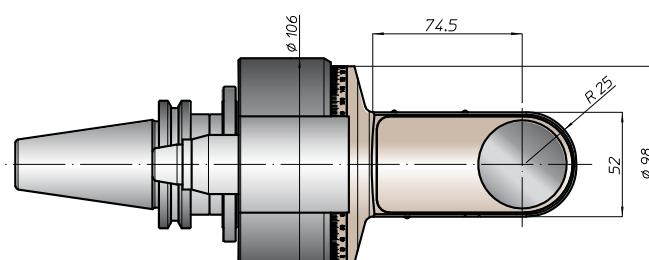
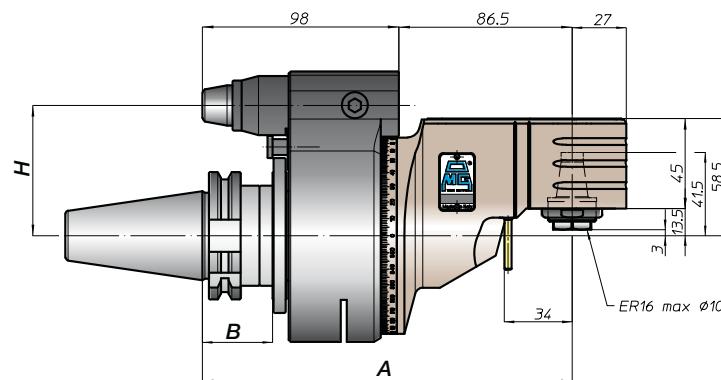
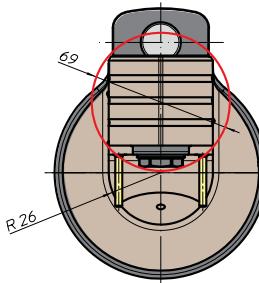
## prestazioni/performances



## tipi mandrino/spindle type

**2** Ø16      **3**

**4** HSK25



CONO SHANK	size	A	B	H	standard	optional
DIN9871	-			65	-	
CAT	40			80	110	
ANSIB5.50	45			65	-	
BT	50	184,5	35	80	110	
HSK	40			65		
DIN69393	50	192,5	43	80	110	
CAPTO	63			65		
ISO26623	80	193,5	46	80	110	
KM	100			80	110	
DIN2080	-			65		
NMTB	40	157,5	13	80	110	
ANSIB5.18	50	160,5	16	80	110	

# TA010.PD

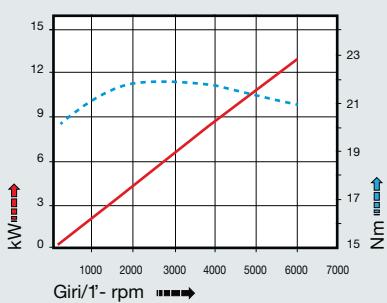
## caratteristiche/features



## peso/weight

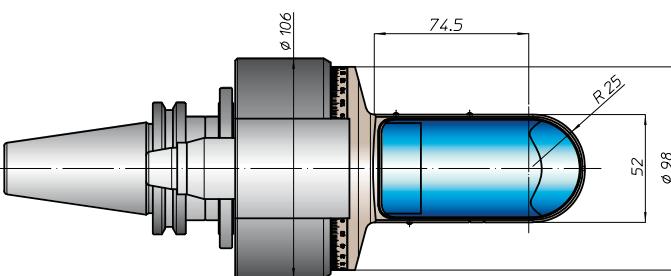
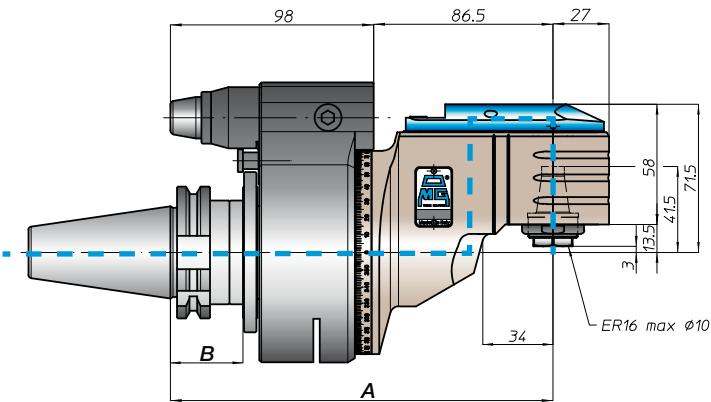
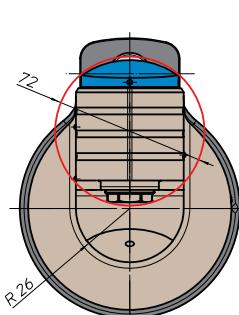


## prestazioni/performances



CONO SHANK	size	A	B	standard	optional
				H	
DIN69871	-			65	-
	40				
	45			80	110
	50	184,5	35		
ANSIB5.50	40			65	-
	50			80	110
BT	40			65	
	50	192,5	43	80	110
DIN69893	63			65	
	80	193,5	44	80	110
	100				
ISO26623	C5			65	
	C6	188,5		80	110
	C8				
KM	63			65	
	80	184,5		80	110
	100				
DIN2080	-			-	-
	-			-	-
	-			-	-
	-			-	-
ANSIB5.18	NMTB	-		-	-

## tipi mandrino/spindle type

**2** Ø16**3****4** HSK25

# TAO13.P



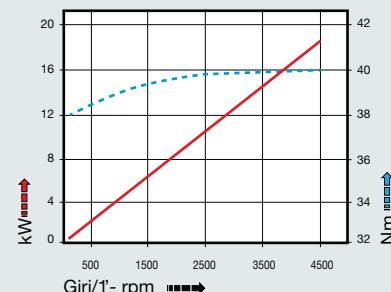
## caratteristiche/features

- - 
  - 
  -
- ø 13      M10  
1-1      4500

## peso/weight



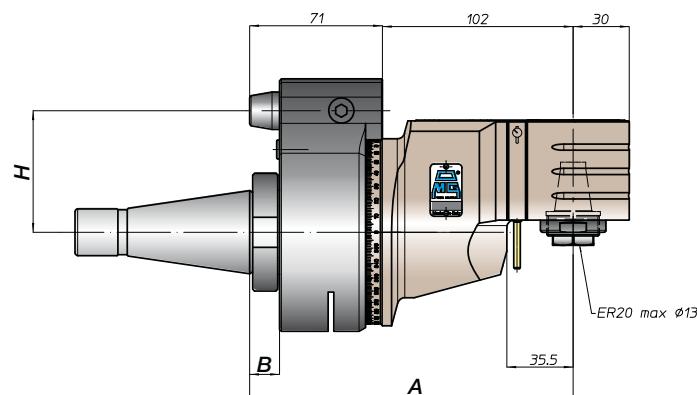
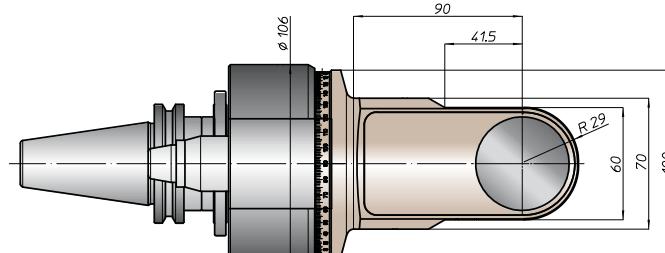
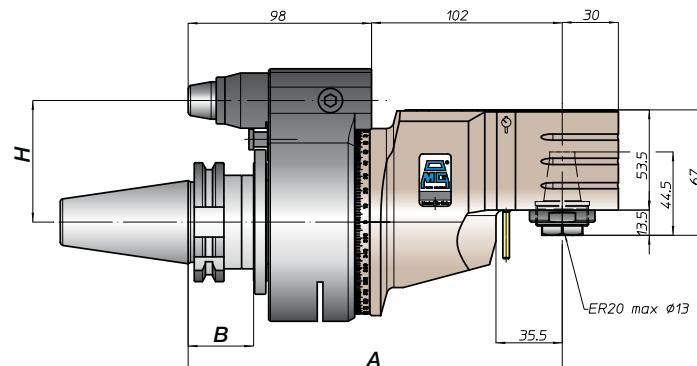
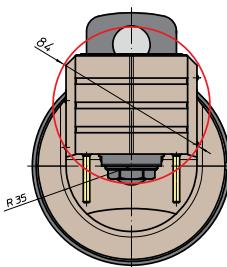
## prestazioni/performances



## tipi mandrino/spindle type

**2** Ø16 - Ø22      **3**

**4** HSK32



CONO SHANK	size	A	B	H	standard	optional
DIN9871	-			65	-	
	40			80	110	
	45			65	-	
	50	200	35	80	110	
ANSIB5.50	40			65	-	
	50			80	110	
BT	40			65		
	50	208	43	80	110	
HSK	63			65		
	80	209		80	110	
	100			65		
DIN69893	63			65		
	80	209		80	110	
	100			65		
CAPTO	C5			65		
	C6	204		80	110	
	C8			65		
KM	63			65		
	80	200		80	110	
	100			65		
DIN2080	-			173	13	65
	40			176	16	80
	-			176	16	110
	50			173	13	65
NMTB	40	173	13	65		
	50	176	16	80	110	
ANSIB5.18	40	173	13	65		
	50	176	16	80	110	

# TA013.PD

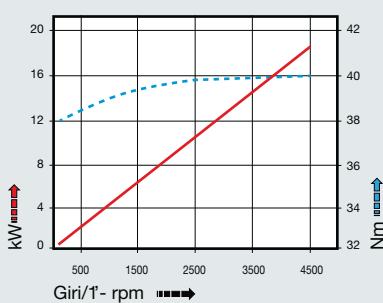
## caratteristiche/features



## peso/weight

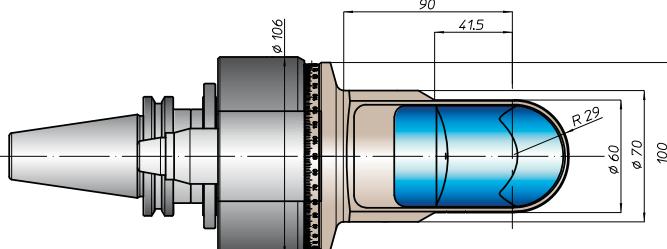
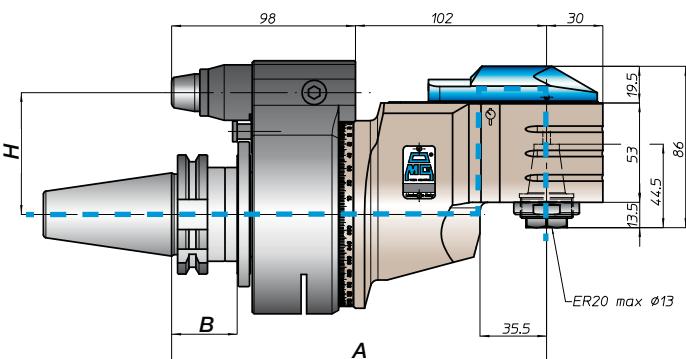
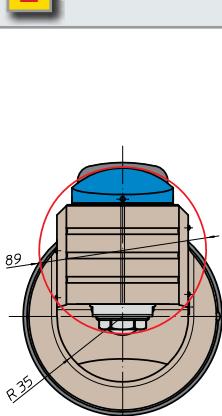


## prestazioni/performances



CONO SHANK	size	A	B	standard	optional
DIN69871	-			65	-
	40			80	110
	45			80	110
	50	200	35	80	110
ANSIB5.50	40			65	-
	50			80	110
BT	40			65	
	50	208	43	80	110
DIN6993	63		44	65	
	80	209	46	80	110
	100				
ISO26623	C5			65	
	C6	204		80	110
	C8				
KM	63			65	
	80	200		80	110
	100				
DIN2080	-			-	-
	-			-	-
	-			-	-
	-			-	-
ANSIB5.18	-			-	-
	-			-	-

## tipi mandrino/spindle type

**2** Ø16 - Ø22**3****4** HSK32

# TAO16.P



## caratteristiche/features

- ø 16
- M12
- 1-1
- 4000

## peso/weight

- |                    |       |         |        |
|--------------------|-------|---------|--------|
|                    | 40    |         | 50     |
| 7,7 kg             |       | 11,7 kg |        |
| rotazione/rotation |       |         |        |
|                    | input |         | output |

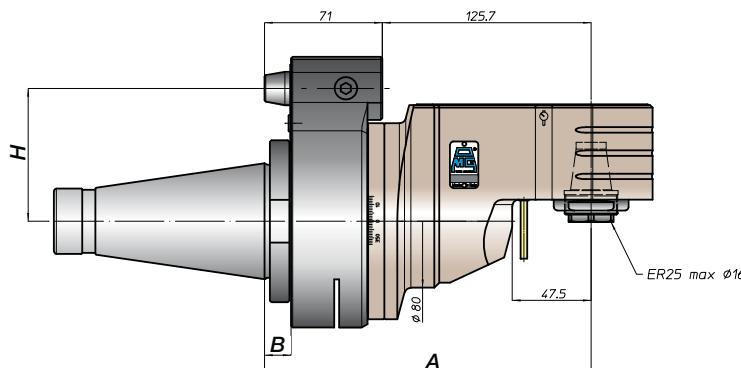
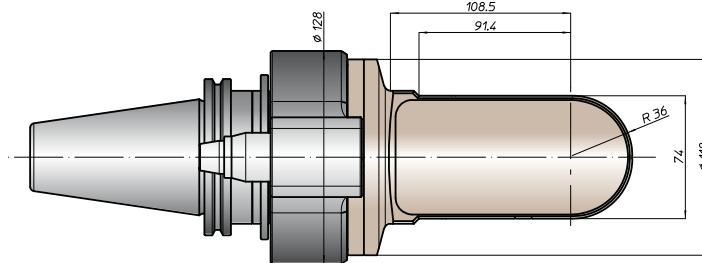
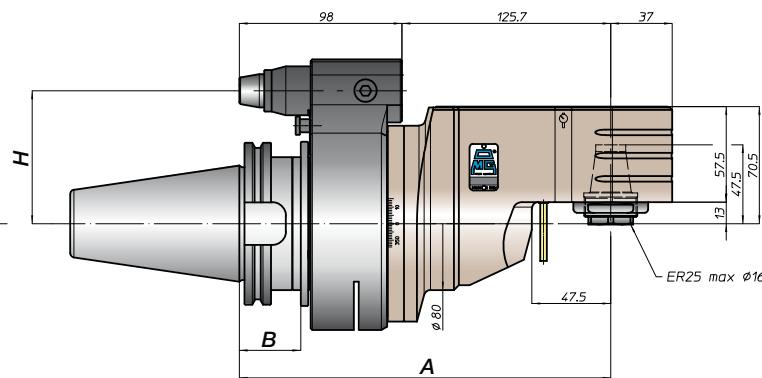
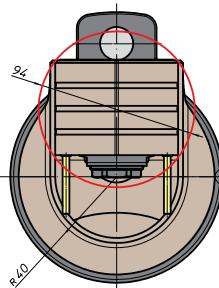
## prestazioni/performances



## tipi mandrino/spindle type

**2** Ø16 - Ø22 - Ø27    **3**

**4** HSK40



CONO SHANK	size	A	B	H standard	H optional
DIN9871	-			-	-
CAT	45			80	110
ANSIB5.50	50	223,5	35	65	-
BT	50			80	110
HSK	-			-	-
DIN9893	80	232,5	46	80	110
	100				
CAPTO	C6	227,5		-	
ISO26623	C8			80	110
KM	-			-	
DIN2080	80	223,5	13	-	-
	100				
NMTB	-			80	110
ANSIB5.18	50	199,5	16	80	110

# TA016.PD

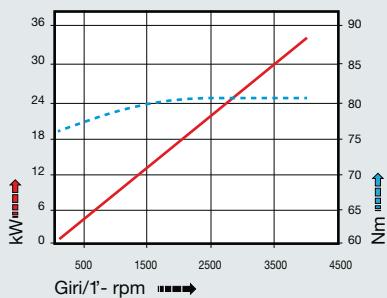
## caratteristiche/features



## peso/weight



## prestazioni/performances



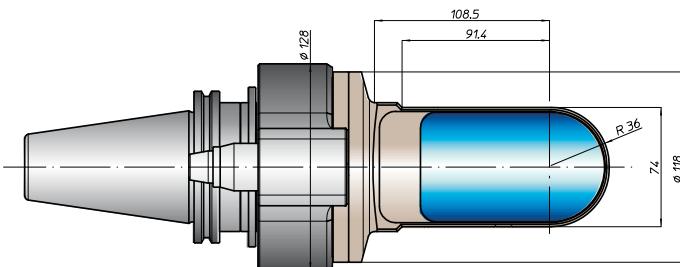
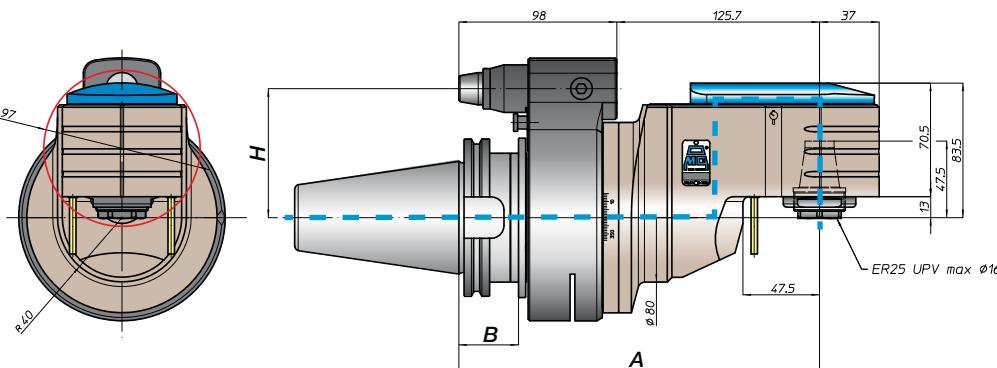
CONO SHANK	size	A	B	standard	optional
DIN69871	-	223,5	35	80	110
	-				
	45				
	50				
CAT	-	50	80	65	110
ANSI B5.50	-				
BT	-	50	43	80	110
DIN69893	-	232,5	46	80	110
	80				
	100				
ISO26623	-	227,5	80	110	
	C6				
	C8				
KM	-	223,5	80	110	
	80				
	100				
DIN2080	-				
	-				
	-				
	-				
ANSI B5.18	-				
	-				

## tipi mandrino/spindle type

2 Ø16 - Ø22 - Ø27

3

4 HSK40



# TAO20.P



## caratteristiche/features

- ø 20
- M14
- 1-1
- 3500

## peso/weight



14,5 kg

## rotazione/rotation



input



output

## prestazioni/performances

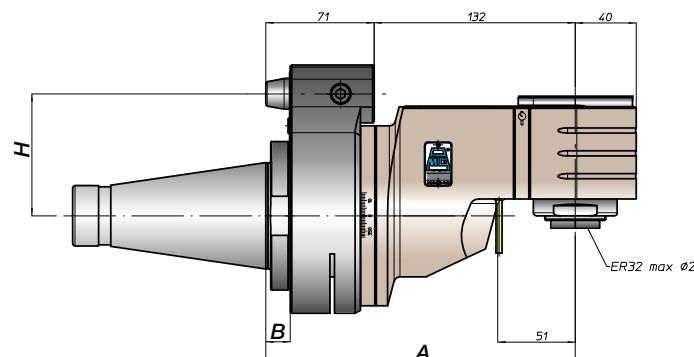
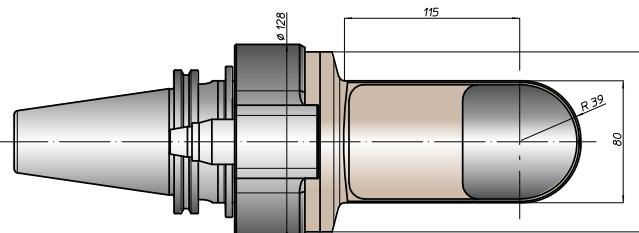
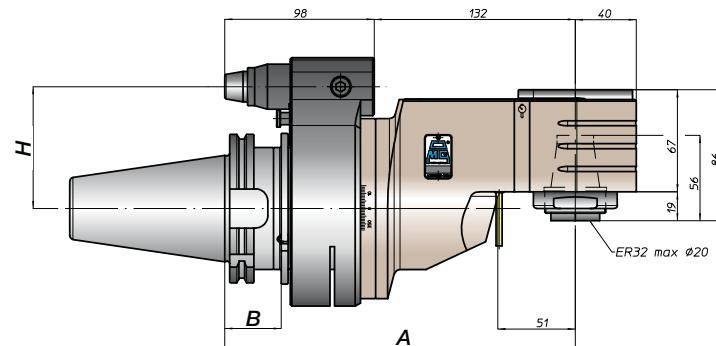
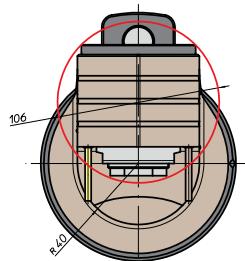


## tipi mandrino/spindle type

- 2** Ø22-Ø27-Ø32    **3**

- 4** HSK50

- 6**



CONO SHANK	size	A	B	H standard	H optional
DIN9871	-			-	-
CAT	45			80	110
ANSIB5.50	50	230	35	-	-
BT	-			65	
HSK	50	238	43	80	110
DIN69893	-			-	-
CAPTO	80	239	46	80	110
ISO26623	100			-	-
KM	-			80	110
DIN2080	C6	234		-	-
NMTB	C8			80	110
ANSIB5.18	80	230		-	-
	100			80	110
	-			-	-
	-			203	16
	-			80	110
	50			-	-
	-			203	16
	-			80	110

# TA020.PD

## caratteristiche/features



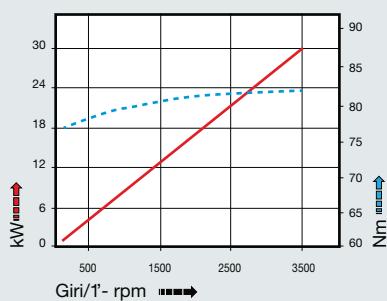
## peso/weight



## rotazione/rotation



## prestazioni/performances



		<i>H</i>		standard	optional
	size	A	B		
CONO SHANK	-	230	35	-	-
	-			80	110
	45				
	50				
CAT	-	238	43	80	110
ANSI/B5.50	50				
BT	-	239	46	80	110
HSK	-				
DIN69893	-	239	46	42	-
	80			80	110
	100				
CAPTO	-	234	80	-	
ISO26623	C6			110	
	C8				
KM	-	230	80	-	
	80			110	
	100				
DIN2080	-	-	-	-	-
	-			-	-
	-			-	-
	-			-	-
ANSI/B5.18	NMTB	-	-	-	-

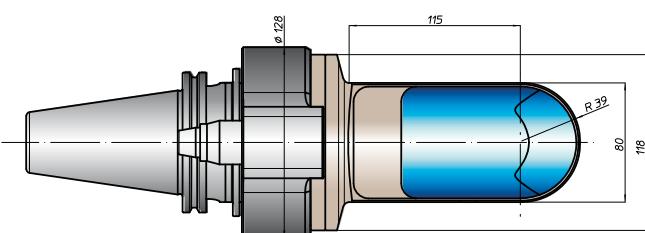
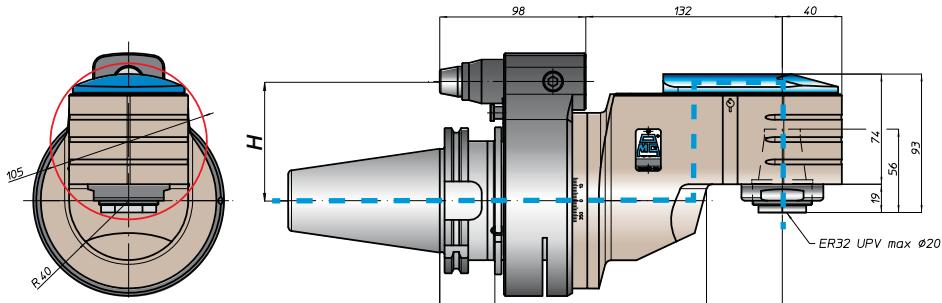
## tipi mandrino/spindle type

2 Ø22-Ø27-Ø32

3

4 HSK50

6





# TAV10.P

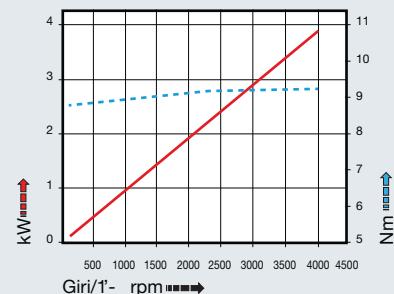
## caratteristiche/features

- ø 10
- M8
- 1-1
- 4000

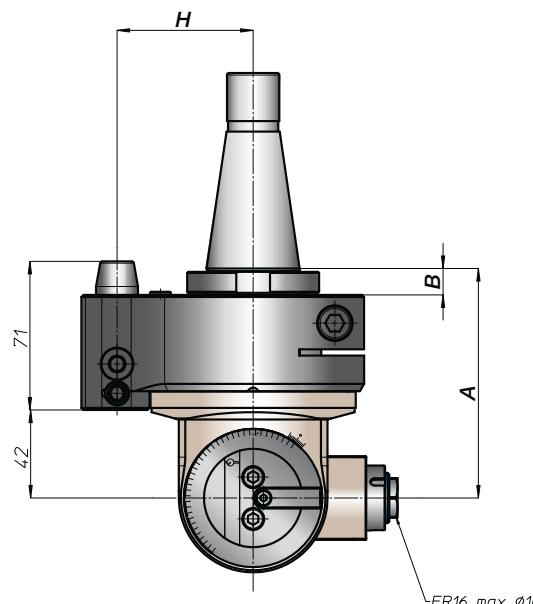
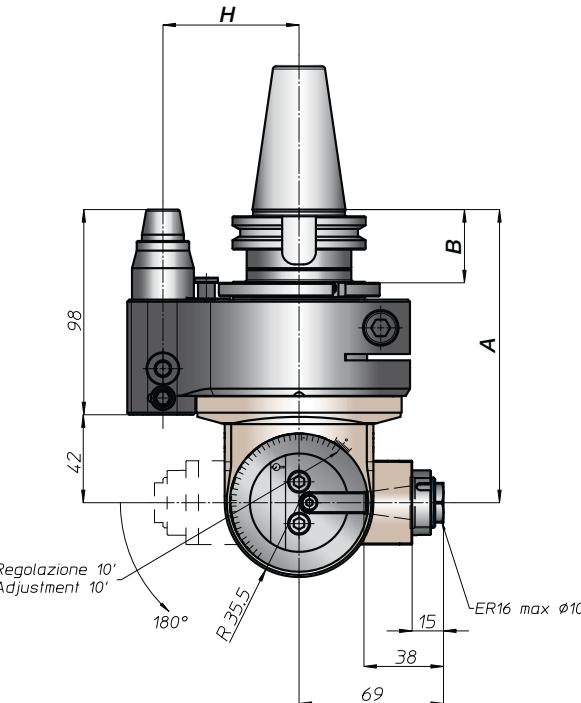
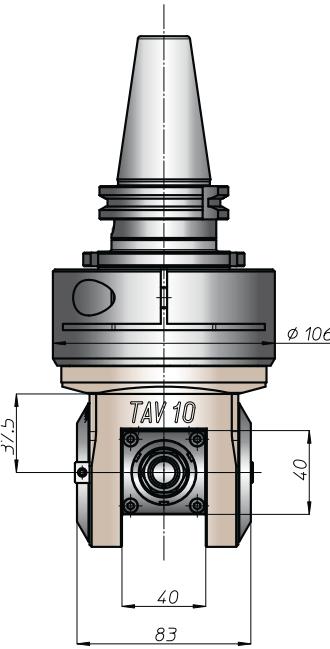
## peso/weight



## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871	-			65	-	
	40			80	110	
	45			65	-	
	50	140	35	80	110	
ANSIB5.50	40			65	-	
	50			80	110	
BT	40			65	-	
	50	148	43	80	110	
HSK	63			65	-	
	80	149	46	80	110	
	100			65	-	
DIN69893				80	110	
CAPTO	C5			65	-	
	C6	144		80	110	
	C8			65	-	
KM	63			65	-	
	80	140		80	110	
	100			65	-	
DIN2080	-			113	13	65
	40			116	16	80
	-			116	16	110
	50			113	13	65
ANSIB5.18	40	113	13	65	-	
	50	116	16	80	110	



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

# TAV13.P

## caratteristiche/features



Φ 13



M10



1-1



3000

## peso/weight



7,8 kg

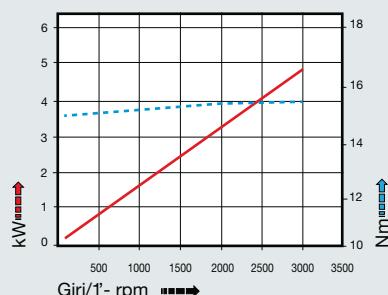


10,5 kg

## rotazione/rotation

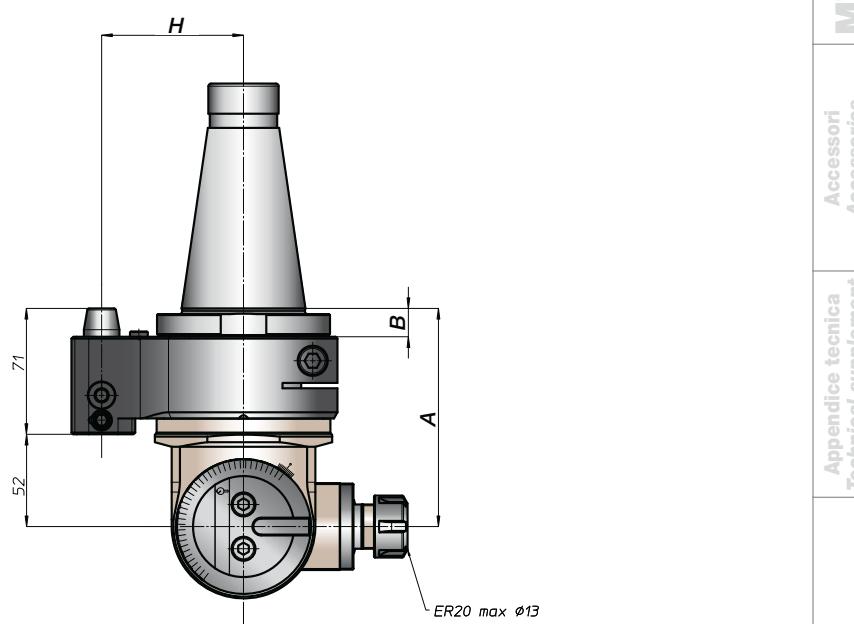
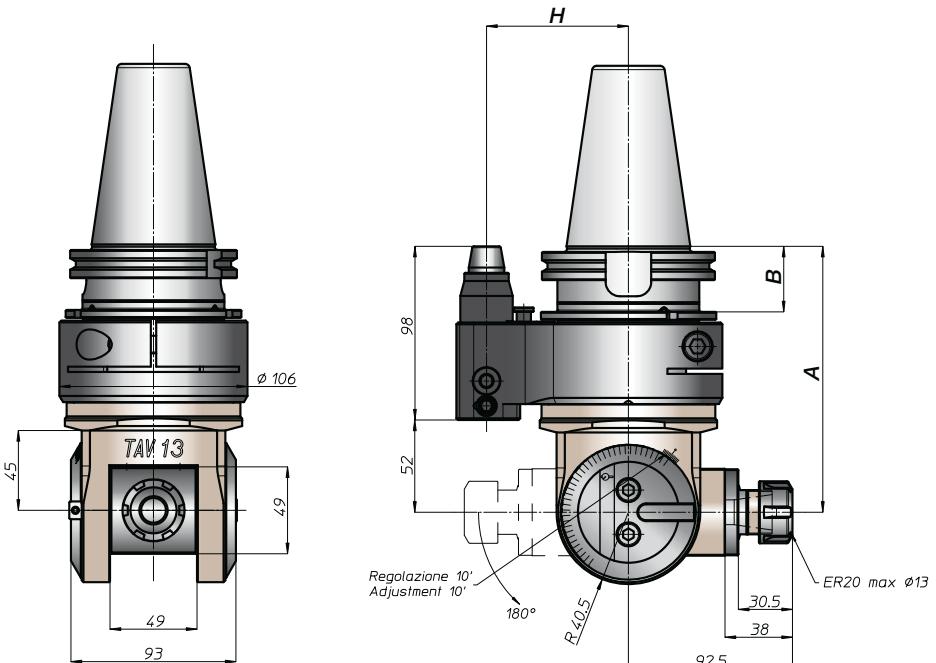


## prestazioni/performances



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871	-	150	35	65	-
	40				
	45			80	110
	50			110	-
ANSI5.50	40	158	43	65	-
	50			80	110
BT	40	158	43	65	-
	50			80	110
DIN69893	63	159	46	65	-
	80			80	110
	100			110	-
ISO26623	C5	154	42	65	-
	C6			80	110
	C8			110	-
KM	63	150	46	65	-
	80			80	110
	100			110	-
DIN2080	-	120	13	65	-
	40			80	110
	-			110	-
	50			123	16
ANSIS5.18	40	120	13	65	-
	50	123	16	80	110

tipi mandrino/spindle type	
1	ER25
3	



# TAV20.P



## caratteristiche/features

- ø 20
- M16
- 1-1
- 2500

## peso/weight

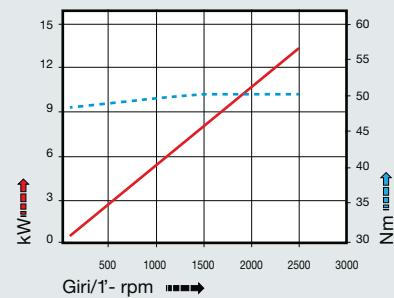
18,5 kg  
rotazione/rotation

input



output

## prestazioni/performances



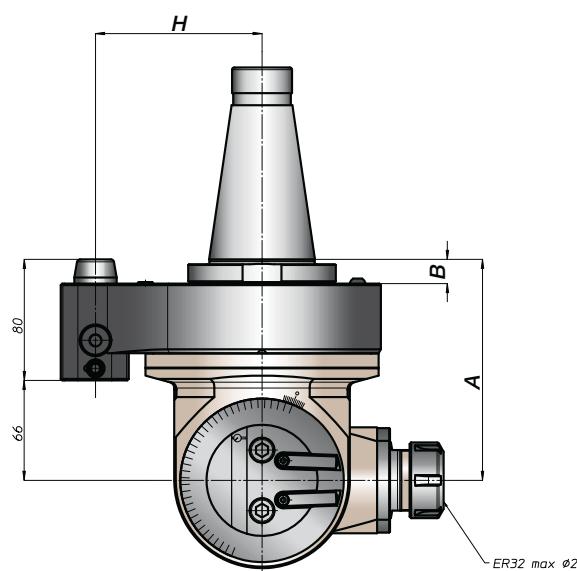
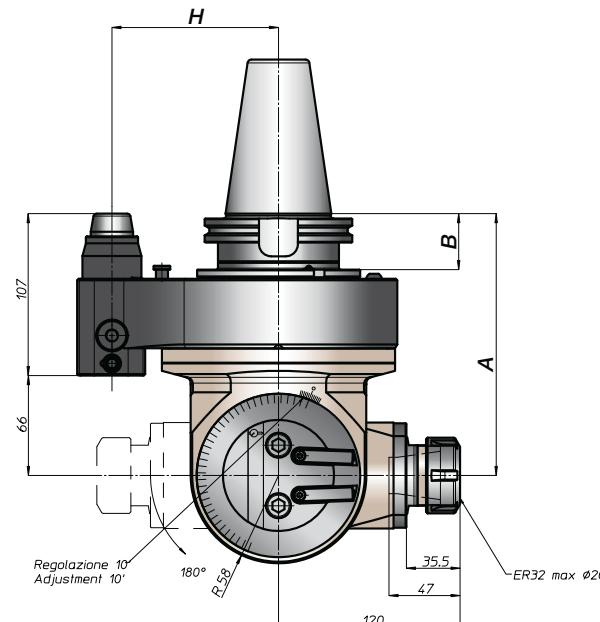
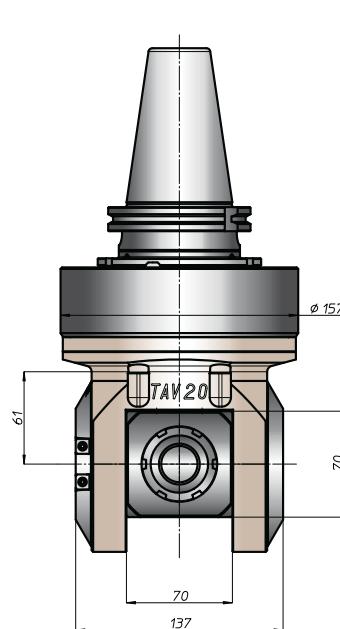
## tipi mandrino/spindle type

1 ER40

3

4 HSK50

6 ABS50



CONO SHANK	size	A	B	H
DIN9871	-	-	-	Standard -
	50	140	35	110 -
ANSIB5.50	CAT	-	-	- -
	50	148	43	110 -
BT	50	-	-	- -
HSK	-	-	-	- -
DIN69393	80	149	-	46 110 -
	100	-	-	- -
CAPTO	-	144	-	- -
ISO26623	C8	-	-	110 -
KM	-	140	-	- -
	100	-	-	110 -
DIN2080	-	-	-	- -
	-	-	-	- -
	-	-	-	- -
	50	116	16	110 -
ANSIS5.18	NMTB	-	-	- -
	50	116	16	110 -

# TAV30.P

## caratteristiche/features

## peso/weight

## prestazioni/performances



ø 30



M24



1:1

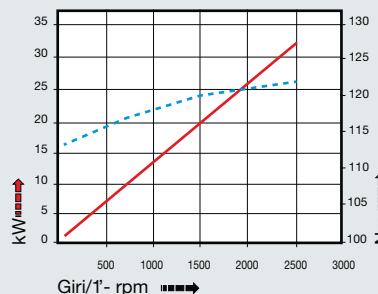


2500



42 kg

## rotazione/rotation



CONO SHANK	size	A	B	standard	H	optional
DIN69871	-					
CAT	-					
ANSI B5.50	50	204,5	35	130	-	
BT	-					
	50	212,5	43	130	-	
HSK	-					
DIN69893	-					
	100	213,5	42	-		
CAPTO	-					
ISO26623	-					
	C8	208,5	-	130	-	
KM	-					
	-	204,5	-			
	100	-		130	-	
DIN2080	-					
	-	-	-	-	-	-
	-					
	50	177,5	16	130	-	
NMTB	-					
ANSI B5.18	50	177,5	16	130	-	

## tipi mandrino/spindle type

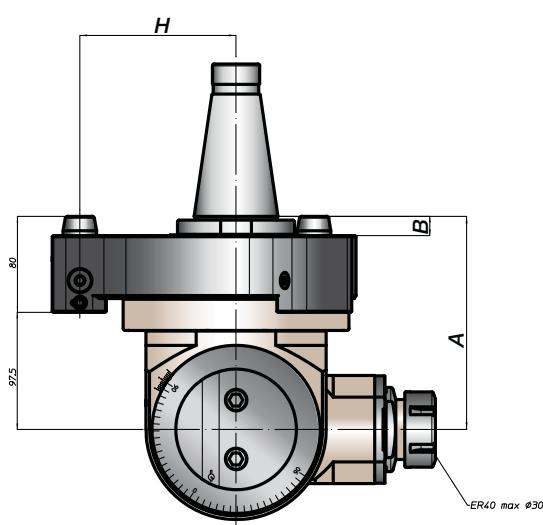
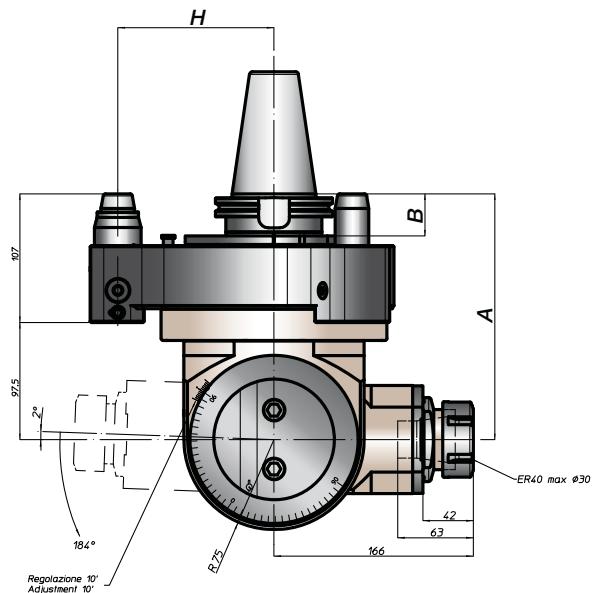
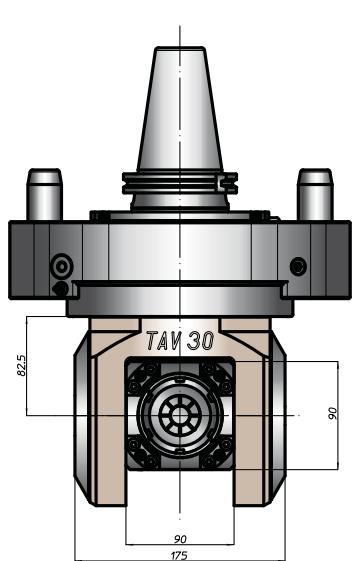
1 ER50

2

3

4 HSK63

6 ABS63





# TAV40.T

## caratteristiche/features

- ø 32
- M26
- 1-2
- 5000  
OUTPUT

## peso/weight



70 kg

## rotazione/rotation

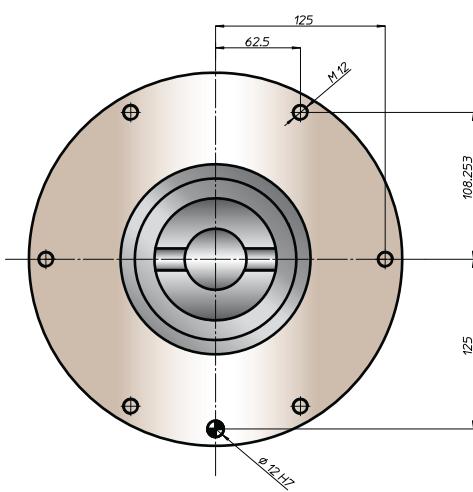
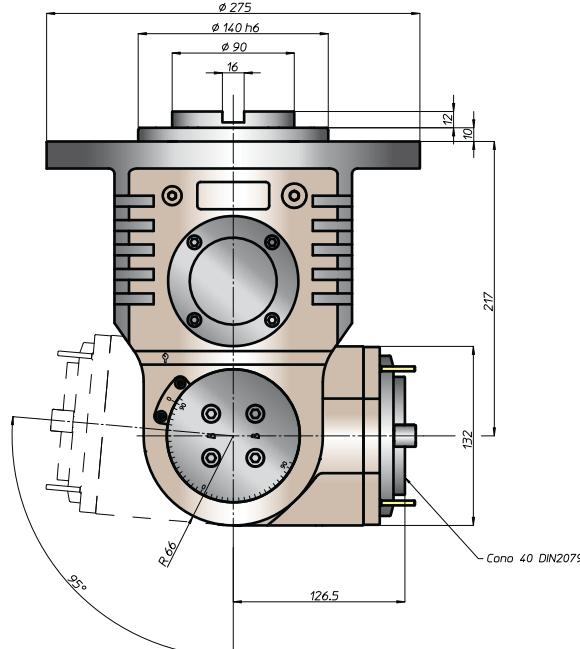
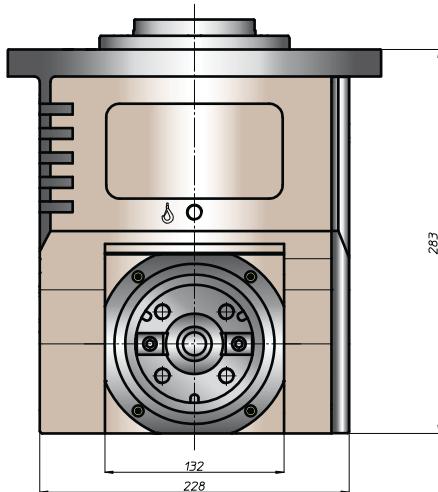
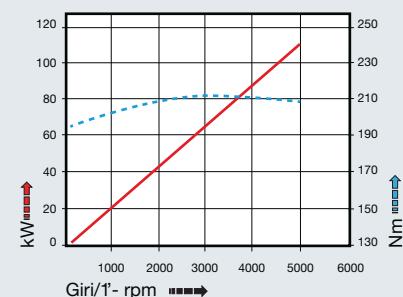


input



output

## prestazioni/performances

**Equipaggiamento standard:**

- pressurizzazione mandrino
- nr 4 ugelli orientabili vicino al mandrino
- regolazione angolare mandrino libero
- nel mandrino DIN2079 si possono utilizzare coni DIN69871-A40, MAS403-BT40

**Opzioni:**

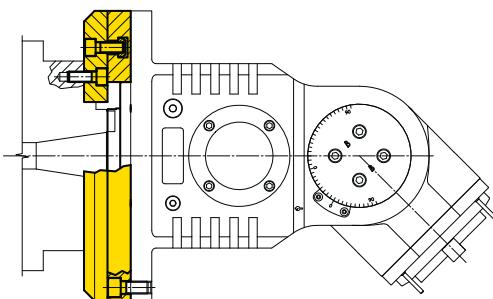
- mandrino DIN69893-HSK-A63, CAPTO C5

**Standard equipment:**

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

**Options:**

- spindle DIN69893-HSK-A63, CAPTO C5

**esempio di collegamento - connection example**

# TAV50.T

## caratteristiche/features

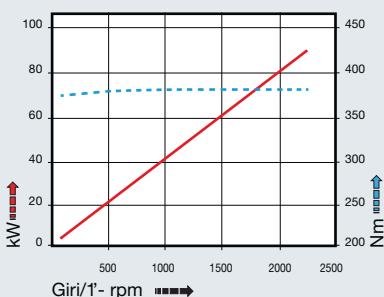
	Φ 45
	M36
	1-2
	4000 OUTPUT

## peso/weight



145 kg

## prestazioni/performances



TA

MO

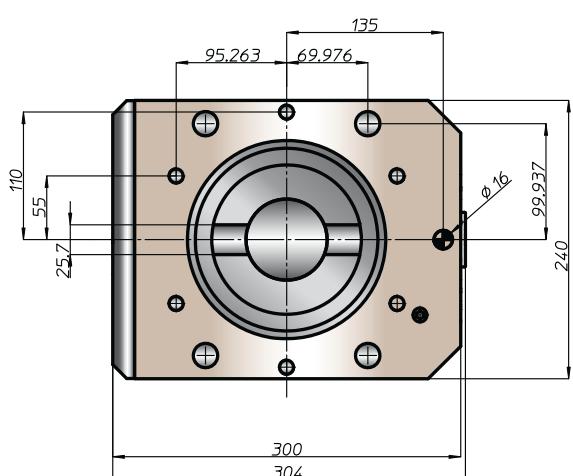
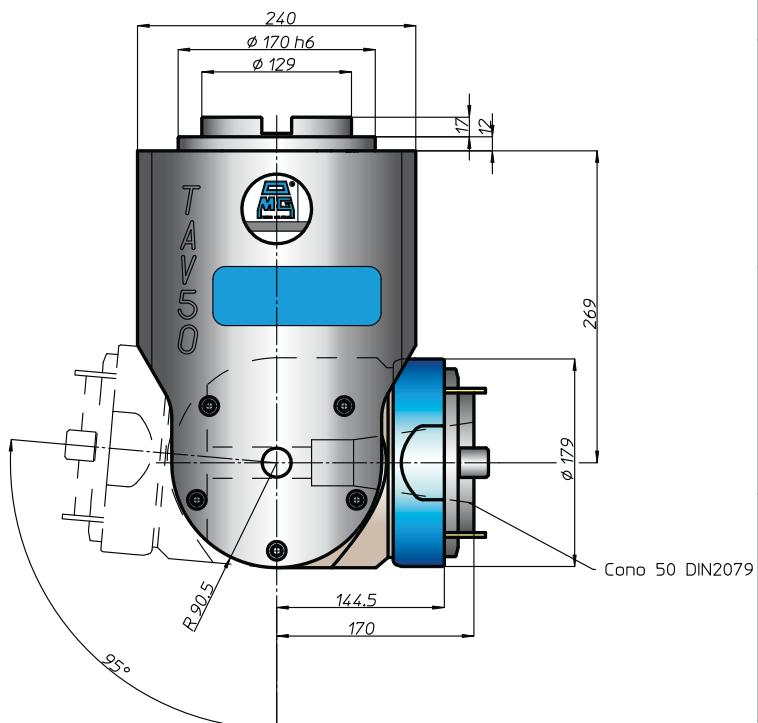
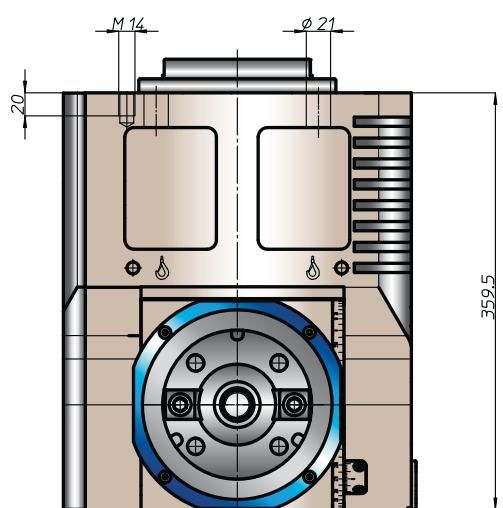
HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

## Equipaggiamento standard:

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

## Opzioni:

- mandrino DIN69893-HSK-A100, CAPTO C8

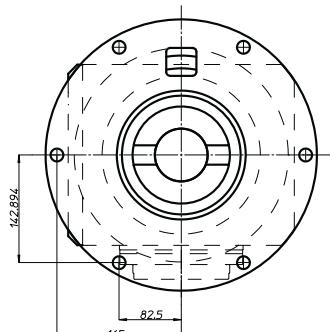
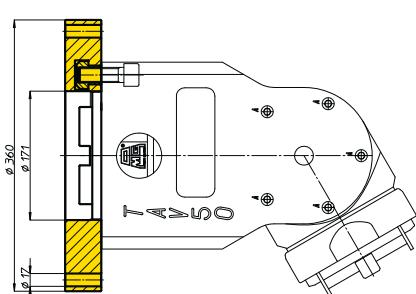
## Standard equipment:

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

## Options:

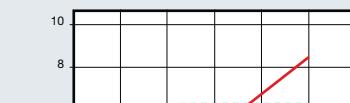
- spindle DIN69893-HSK-A100, CAPTO C8

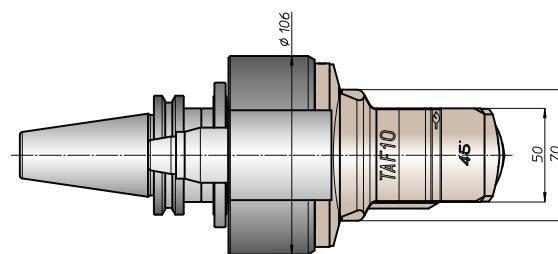
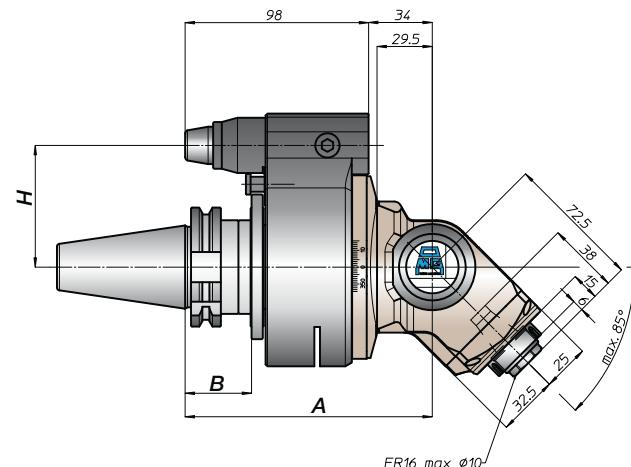
## esempio di collegamento - connection example



# TAF10.P



caratteristiche/features	peso/weight	prestazioni/performances
 ø 10  M8	 5,5 kg  7 kg	 <p>The graph plots Power (kW) on the y-axis (0 to 10) against RPM (Giri/1' - rpm) on the x-axis (0 to 6000). A red diagonal line represents the performance curve, starting at (0,0) and ending at (5000, 8). A blue dashed horizontal line is drawn at 6 kW. An arrow points upwards from the origin along the red line.</p>
 1-1  5000	<b>rotazione/rotation</b>  input →  output	



					H
CONO SHANK	size	A	B	Standard	Optional
DIN69871	30	132	35	65	-
	40			80	110
	45				
	50				
ANSI B5.50	CAT 40	140	43	65	-
	CAT 50			80	110
DIN69893	BT 40	141	46	65	
	BT 50			80	110
ISO26623	HSK 63	136	42	65	
	HSK 80			80	110
	HSK 100				
ISO26623	CAPTO C5	136	46	65	
	CAPTO C6			80	110
	CAPTO C8				
DIN2080	KM 63	132	42	65	
	KM 80			80	110
	KM 100				
ANSI B5.18	-			-	-
	-			-	-
	-			-	-
	-			-	-

# TAF13.P

## caratteristiche/features

## peso/weight

## prestazioni/performances



Ø 13



M10



40



50

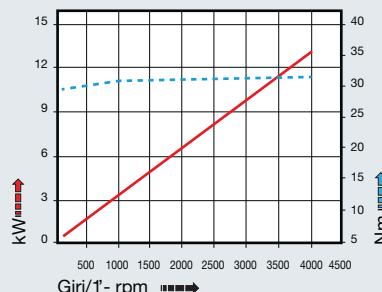


1:1

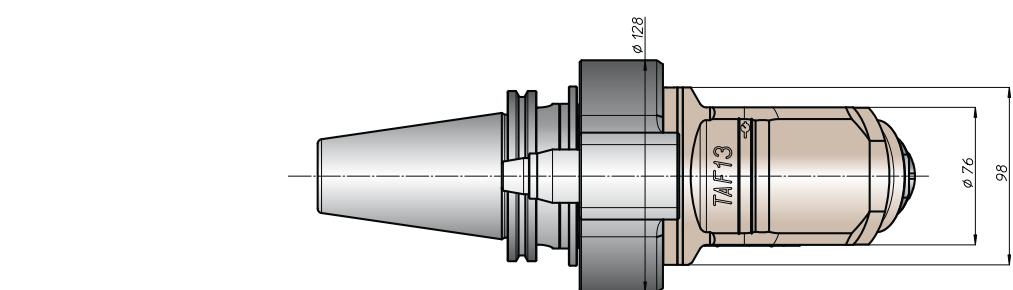
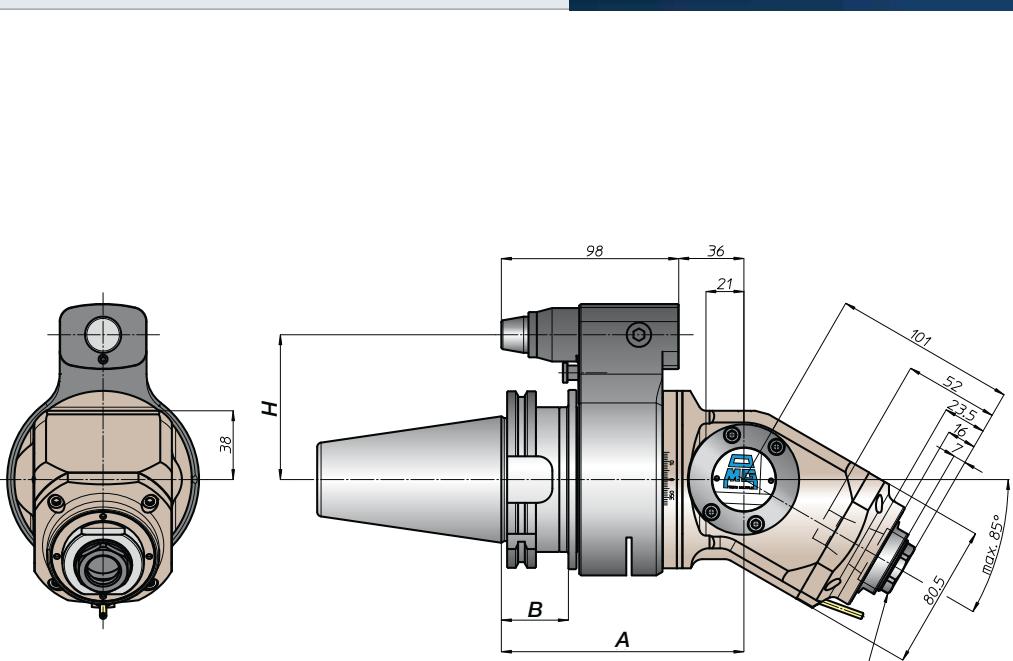


4000

## rotazione/rotation



CONO SHANK	size	A	B	H	standard	optional
				65		
DIN69871	-	134	35	65	80	110
	40			80		
	45			110		
ANSIB5.50	50			65		
	40	142	43	80	110	-
	50			110		
BT	40	142	43	65	80	110
	50			110		
DIN69893	63	143	46	42	65	-
	80			80		
	100			110		
ISO26623	C5	138	46	65	80	110
	C6			80		
	C8			110		
KM	63	134	80	65	80	110
	80			80		
	100			110		
DIN2080	-	-	-	65	-	-
	-			80		
	-			110		
	-			-		
ANSIB5.18	NMTB	-	-	-	-	-
	-			-		

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

TA

MO

HT

VH  
TSI/TSXMT-TC-TC3  
T

# TAF20.P



## caratteristiche/features

- ø 20
- M16
- 1-1
- 3000

## peso/weight

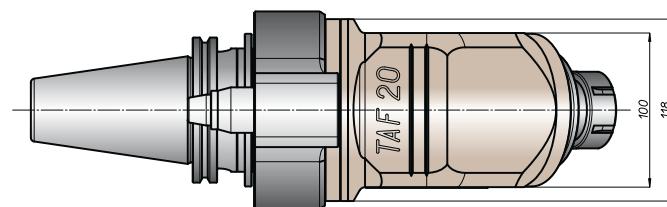
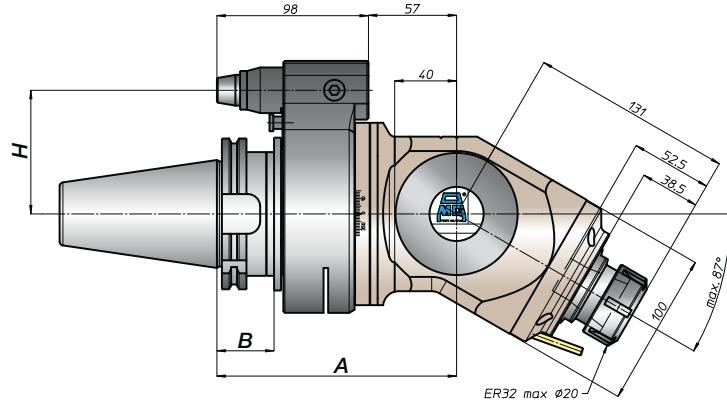
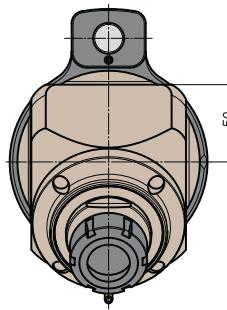
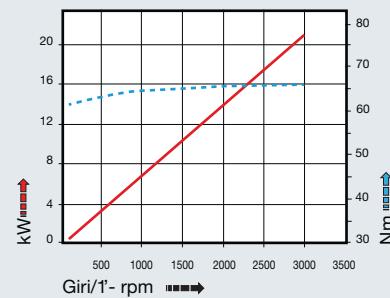
13,5 kg  
rotazione/rotation

input



output

## prestazioni/performances



CONO SHANK	size	A	B	H standard	H optional
DIN69871	-	-	-	-	-
CAT	45	-	-	80	110
ANSIB5.50	50	155	35	-	-
BT	50	-	-	80	110
HSK	50	163	43	80	110
DIN69893	-	-	42	-	-
	80	164	-	80	110
	100	-	46	80	110
CAPTO	-	-	-	-	-
ISO26623	C6	159	-	80	110
	C8	-	-	-	-
KM	-	-	-	-	-
	80	155	-	80	110
	100	-	-	-	-
DIN2080	-	-	-	-	-
ANSIB5.18	-	-	-	-	-
NMTB	-	-	-	-	-

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori  
Accessories

Appendice tecnica  
Technical supplement



# TA13P.T



## caratteristiche/features

- ø 13
- M10
- 1-1
- 8000

## peso/weight

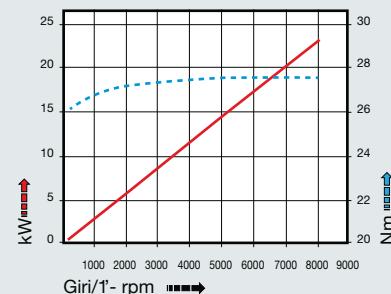
3,5 kg  
rotazione/rotation

input



output

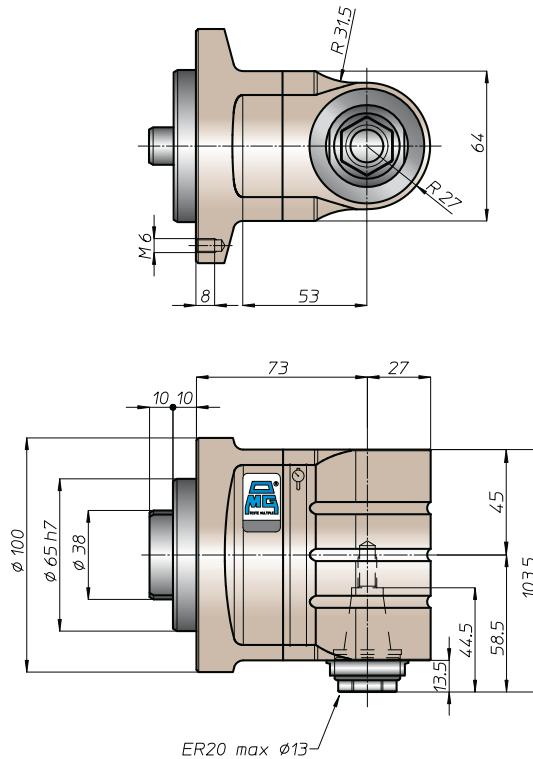
## prestazioni/performances



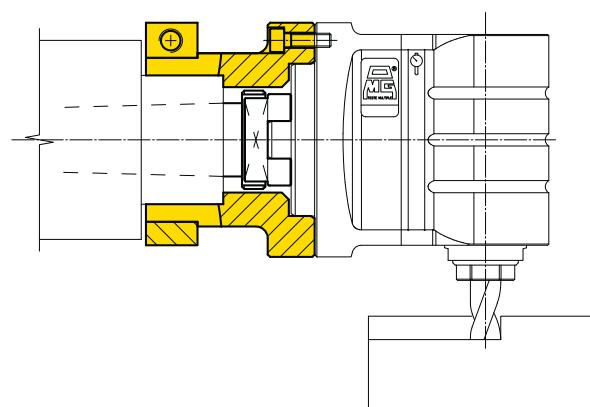
## tipi mandrino/spindle type

2

3



## esempio di collegamento - connection example



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

# TA16P.T

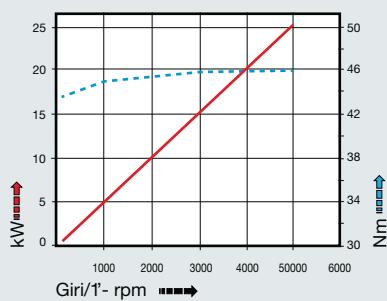
## caratteristiche/features



## peso/weight



## prestazioni/performances



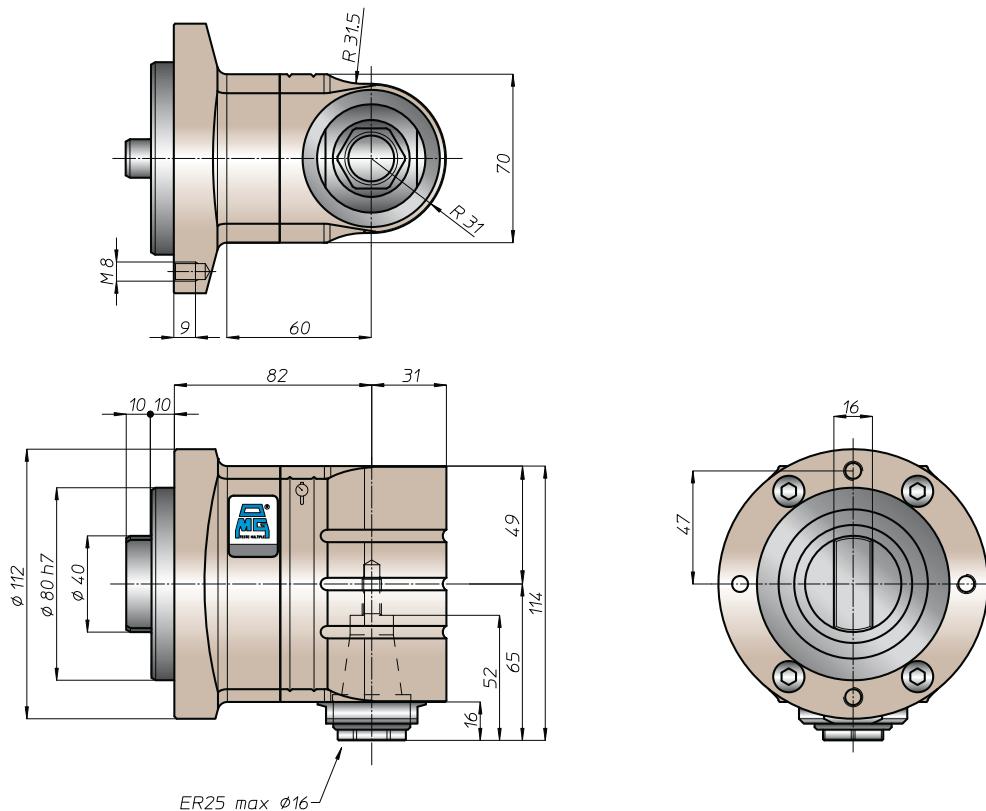
## tipi mandrino/spindle type

1 ER32

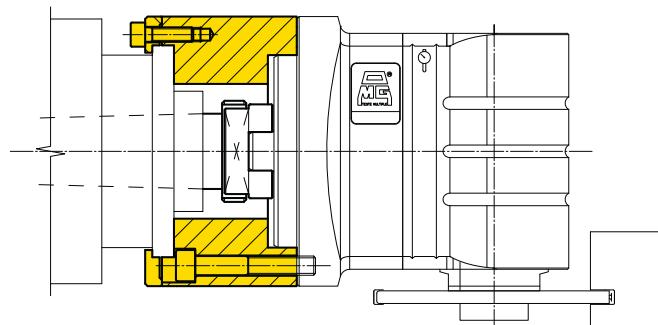
2 Ø16-Ø27-Ø32

3 Ø20

4 HSK32



## esempio di collegamento - connection example



# TA20.PT



## caratteristiche/features

- ø 20
- M14
- 1-1
- 3500

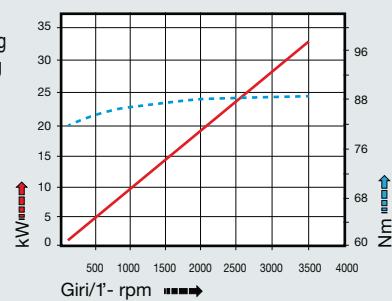
## peso/weight

- |        |                             |
|--------|-----------------------------|
| head   | extension                   |
| 7,5 kg | L 100=7,5 kg<br>L 200=15 kg |

## rotazione/rotation

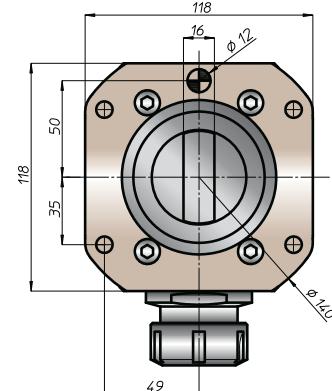
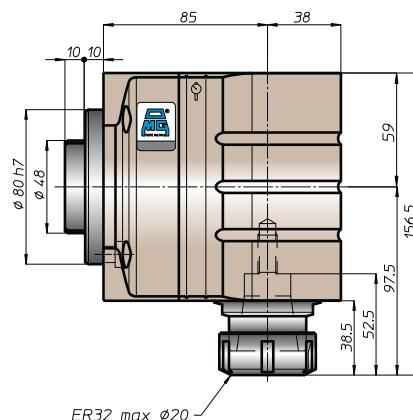
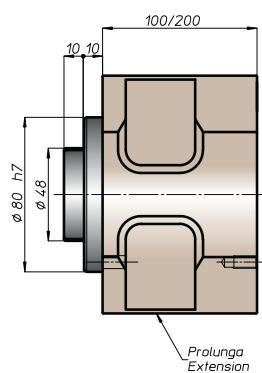
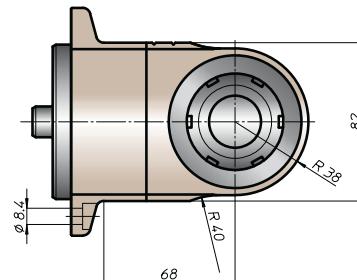


## prestazioni/performances

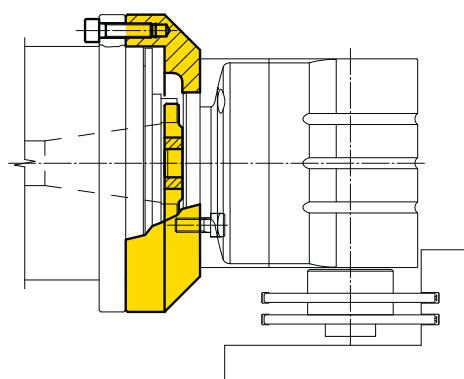


## tipi mandrino/spindle type

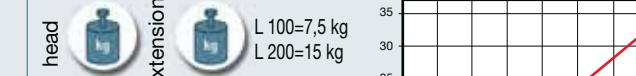
- |               |                      |                  |                |
|---------------|----------------------|------------------|----------------|
| <b>1</b> ER40 | <b>2</b> Ø22-Ø27-Ø32 | <b>3</b> Ø20-Ø25 | <b>4</b> HSK40 |
|---------------|----------------------|------------------|----------------|

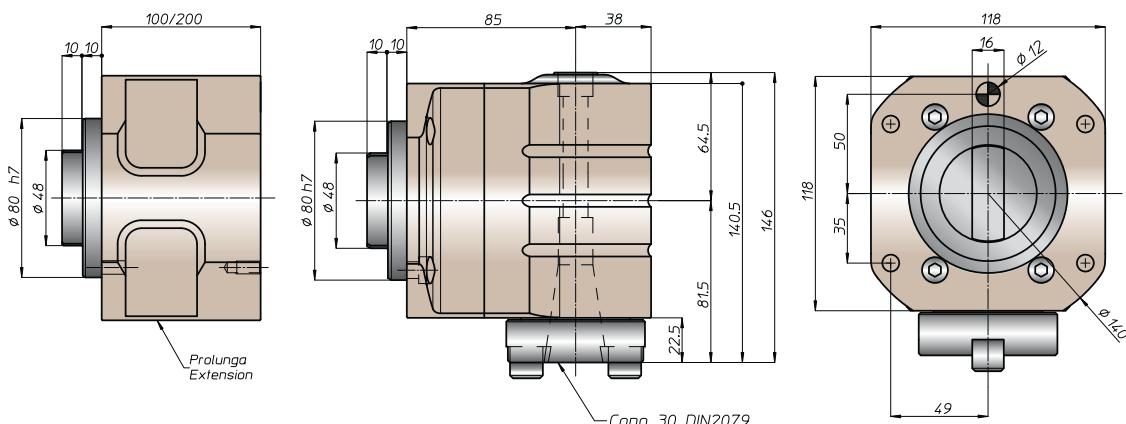
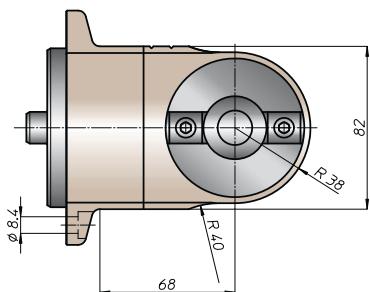


## esempio di collegamento - connection example

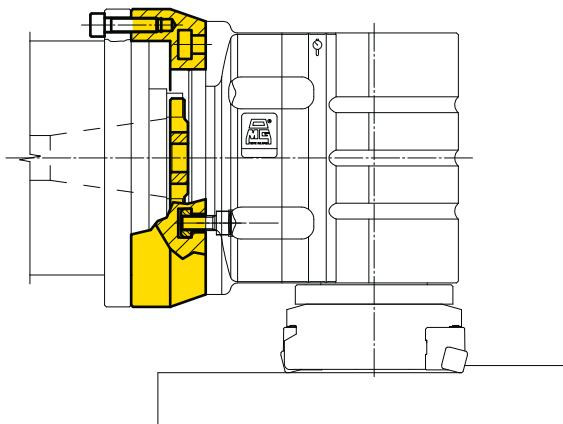


# TA20.30.T

caratteristiche/features	peso/weight	prestazioni/performances
 Ø 20	 M14	
 1-1	 3500	



## **esempio di collegamento - connection example**



# TA26.PT



## caratteristiche/features

- ø 26
- M20
- 1-1
- 2500

## peso/weight

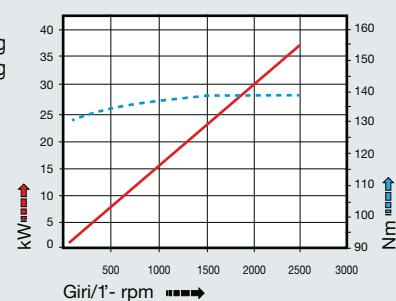
head		L 100=21 kg
extension		L 200=21 kg

13,5 kg

## rotazione/rotation



## prestazioni/performances

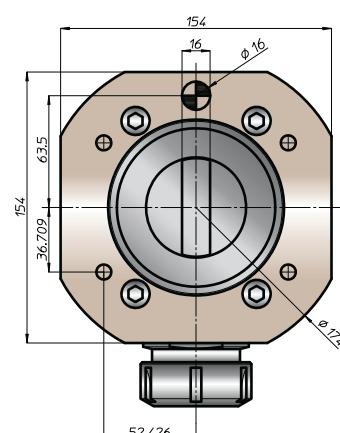
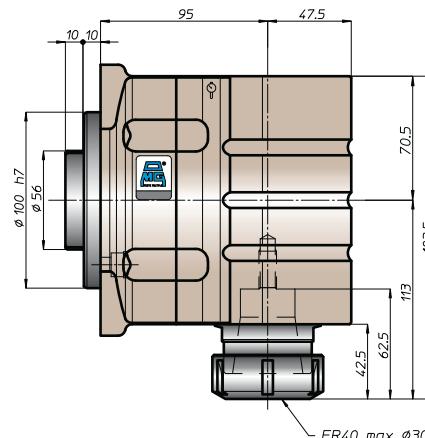
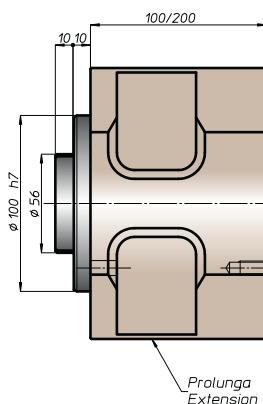
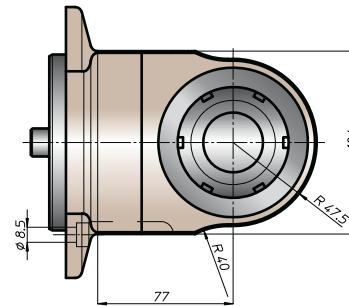


## tipi mandrino/spindle type

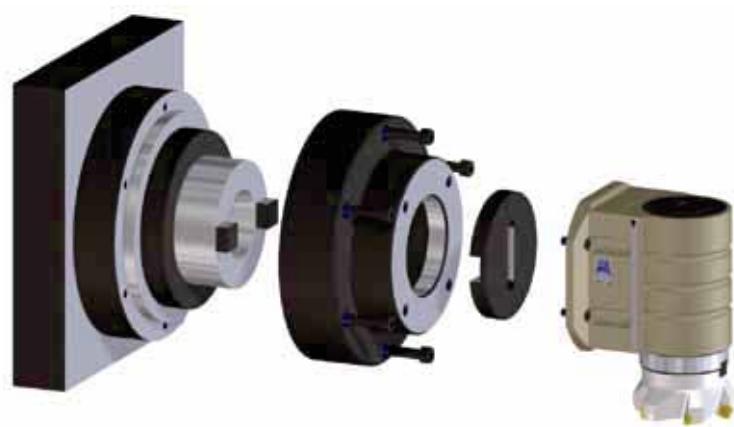
**2** Ø16-Ø27-Ø32    **3** Ø32

**4** HSK63

**6** ABS50

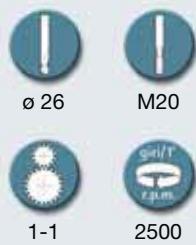


## esempio di collegamento - connection example



# TA26.40.T

## caratteristiche/features



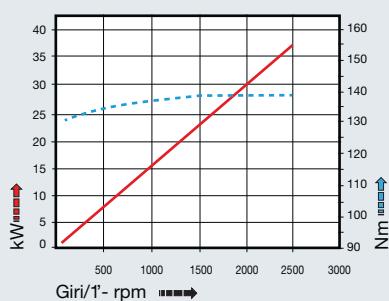
## peso/weight

head L 100=21 kg  
extension L 200=21 kg

## rotazione/rotation



## prestazioni/performances



TA

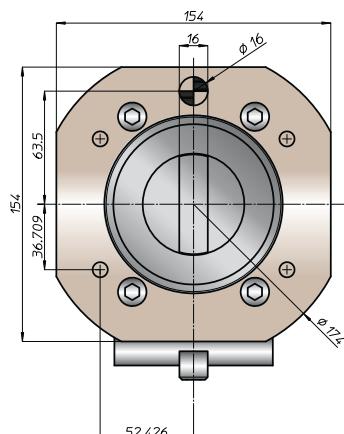
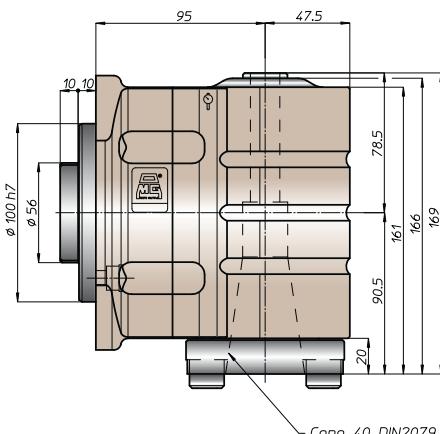
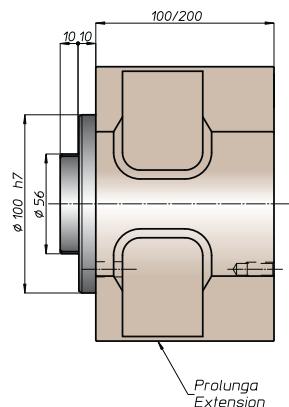
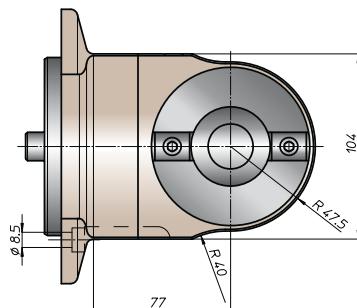
MO

HT

VH

TSI/TSX

MT-TC-TC3 T

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

## esempio di collegamento - connection example



# TA40.T



## caratteristiche/features

- ø 32
- M26
- 1-1
- 5000

## peso/weight



33 kg

## rotazione/rotation

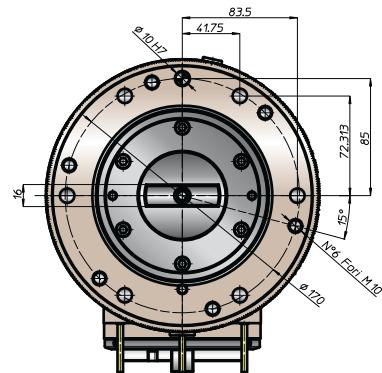
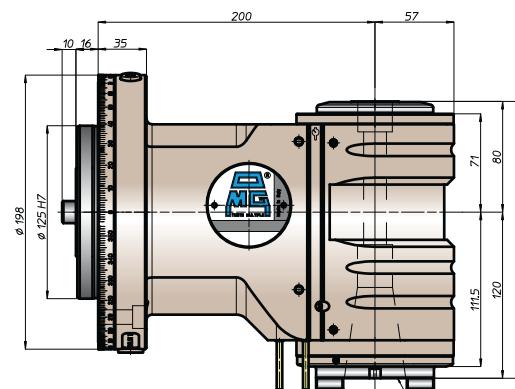
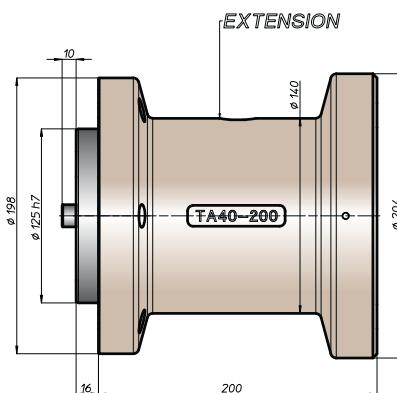
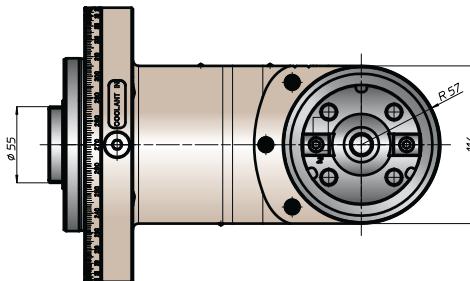
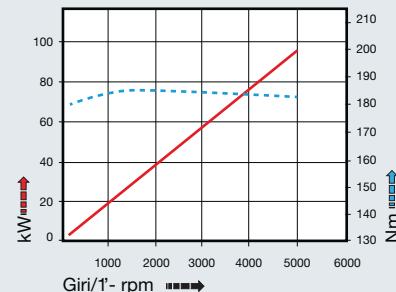


input



output

## prestazioni/performances

**Equipaggiamento standard:**

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

**Opzioni:**

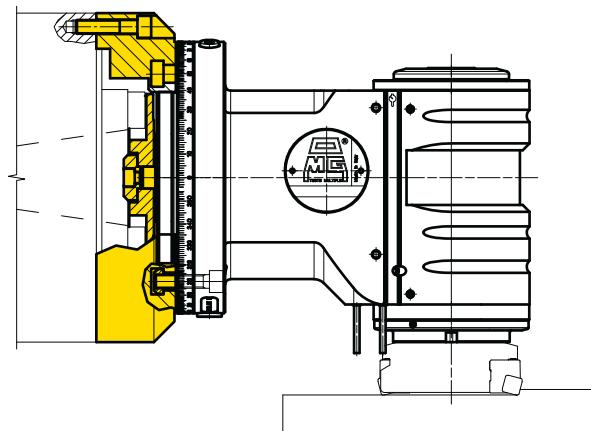
- mandrino DIN69893-HSK-A63, CAPTO C5

**Standard equipment:**

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

**Options:**

- spindle DIN69893-HSK-A63, CAPTO C5

**esempio di collegamento - connection example**

# TA40.TD

## caratteristiche/features



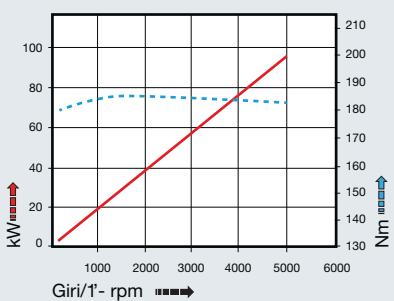
## peso/weight



## rotazione/rotation



## prestazioni/performances



TA

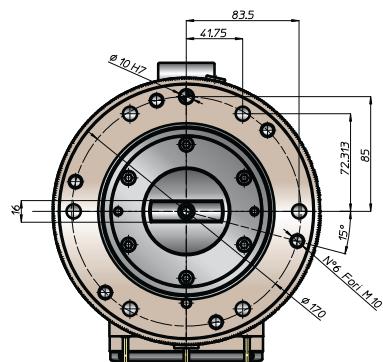
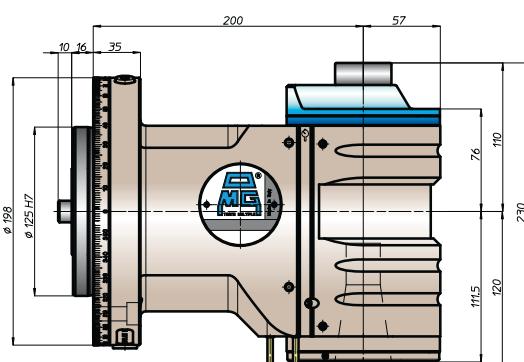
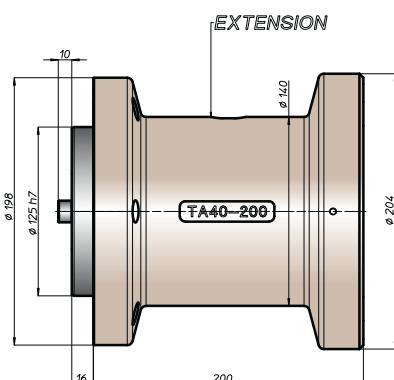
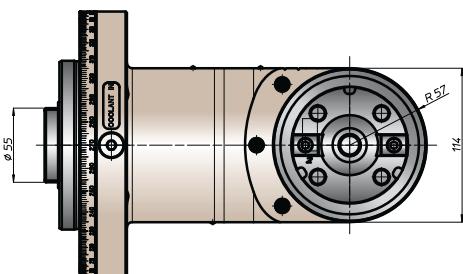
MO

HT

VH

TSI/TSX

MT-Tc-Tc3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement**Equipaggiamento standard:**

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

**Opzioni:**

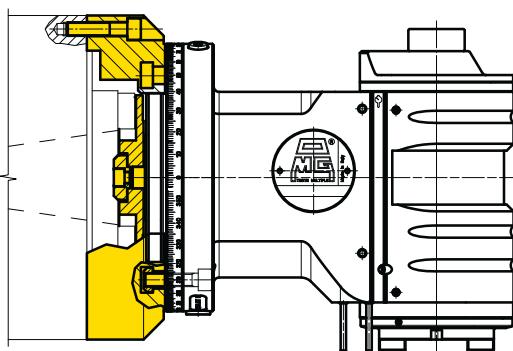
- mandrino DIN69893-HSK-A63, CAPTO C5

**Standard equipment:**

- spindle front pressurization
- nr 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN2080-50, DIN69871-A40, MAS403-BT40

**Options:**

- spindle DIN69893-HSK-A63, CAPTO C5

**esempio di collegamento - connection example**



# TA50.T

## caratteristiche/features

	ø 45
	M36
	1-1
	2500 / 4000

## peso/weight

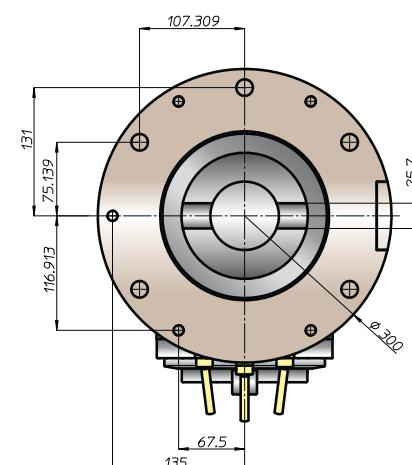
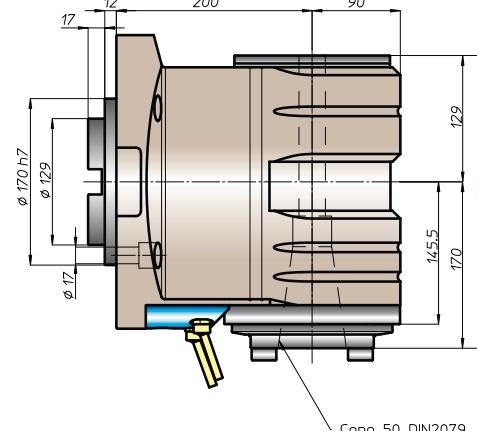
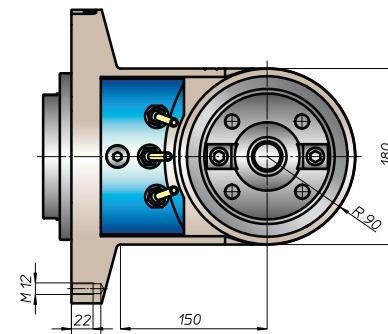
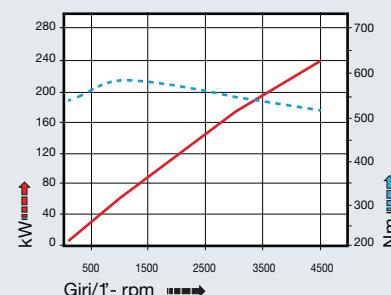


95 kg

## rotazione/rotation



## prestazioni/performances



### Equipaggiamento standard:

- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-50, DIN69871-A50, MAS403-BT50

### Opzioni:

- mandrino DIN69893-HSK-A100, CAPTO C8

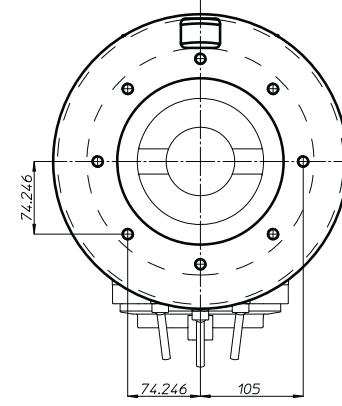
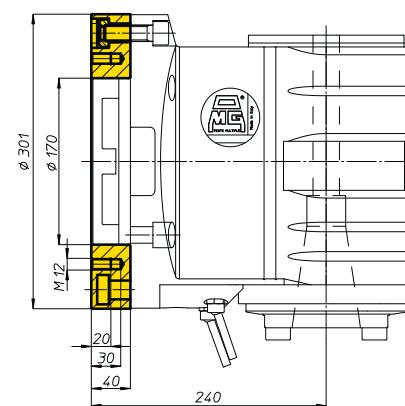
### Standard equipment:

- spindle front pressurization
- nr 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN2080-50, DIN69871-A50, MAS403-BT50

### Options:

- spindle DIN69893-HSK-A100, CAPTO C8

## esempio di collegamento - connection example



# TA50.TD

## caratteristiche/features



## peso/weight



95 kg

## rotazione/rotation

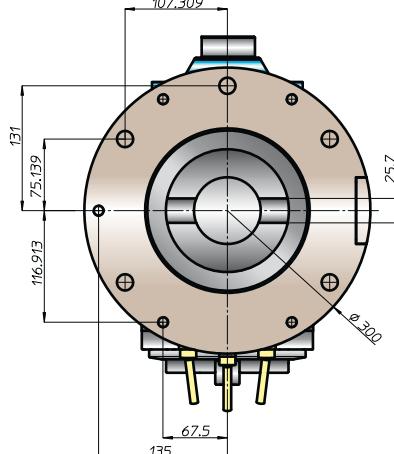
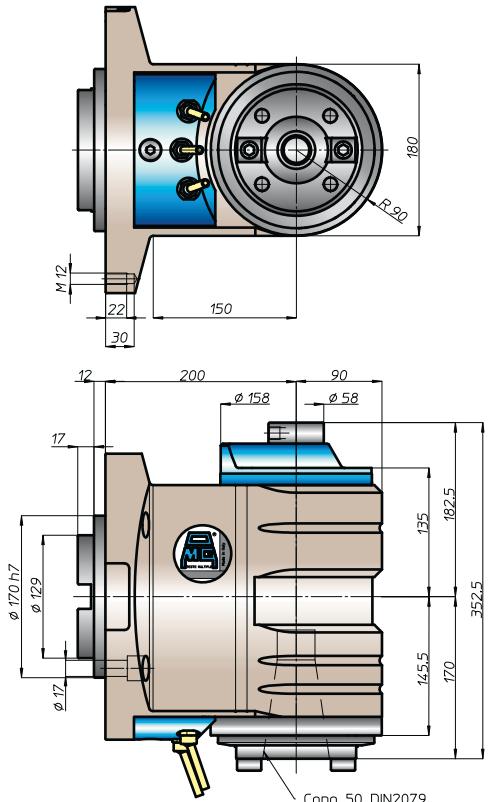
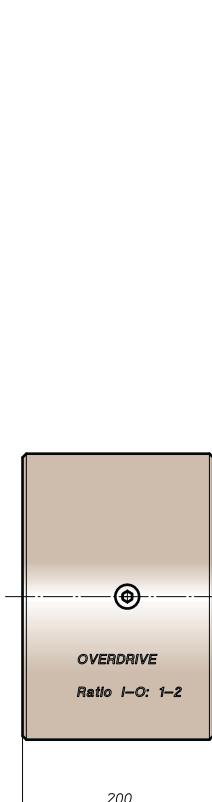
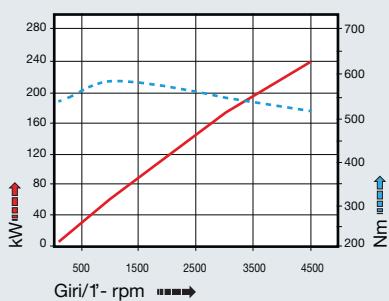


input



output

## prestazioni/performances

**Equipaggiamento standard:**

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

**Opzioni:**

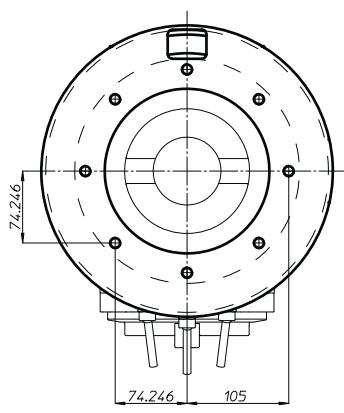
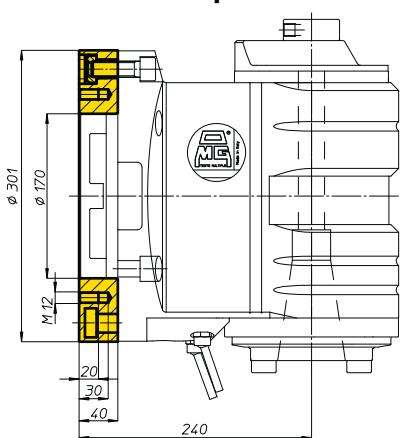
- mandrino DIN69893-HSK-A100, CAPTO C8

**Standard equipment:**

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

**Options:**

- spindle DIN69893-HSK-A100, CAPTO C8

**esempio di collegamento - connection example**

# TA13.PVDI



## caratteristiche/features

- ø 13
- M10
- 1-1
- 8000

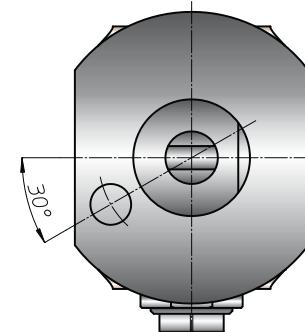
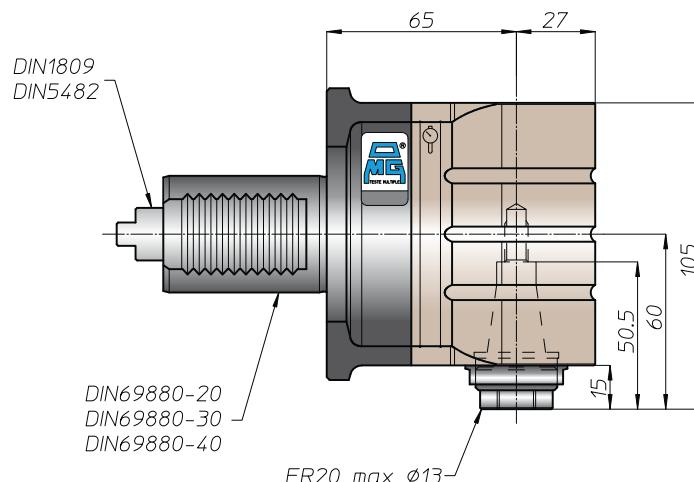
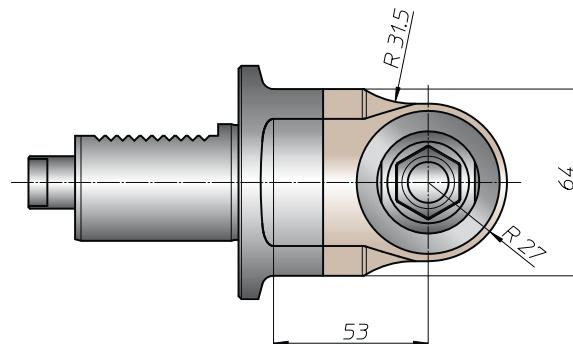
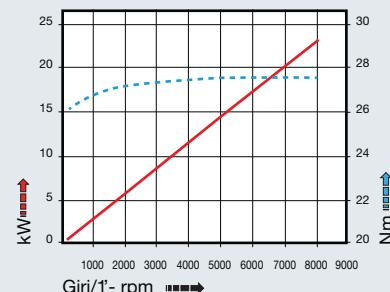
## peso/weight



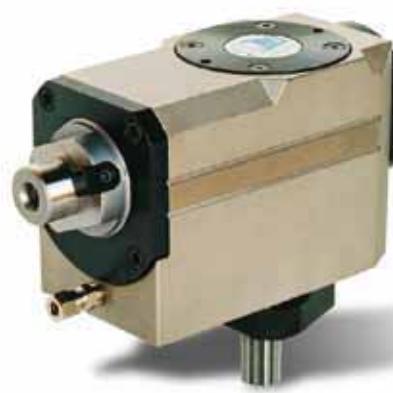
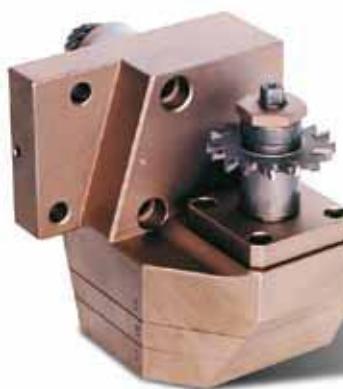
rotazione/rotation



## prestazioni/performances



## soluzioni speciali - special solutions



# TA16.PVDI

## caratteristiche/features

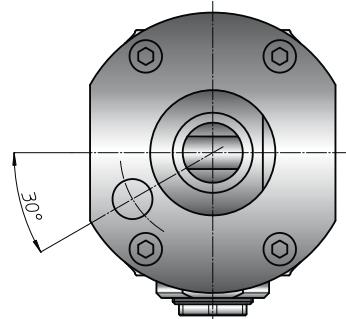
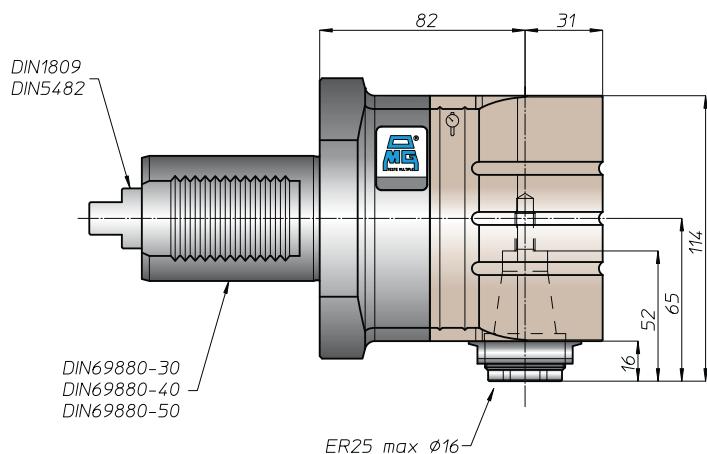
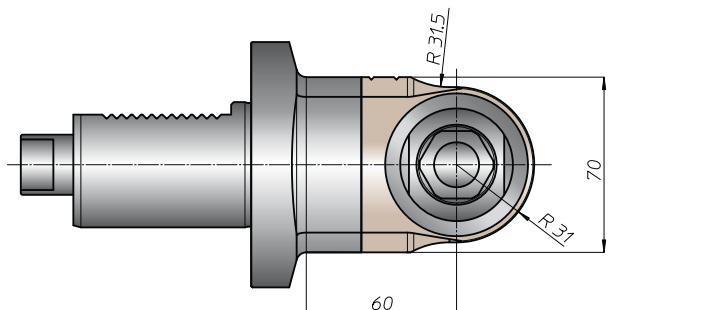
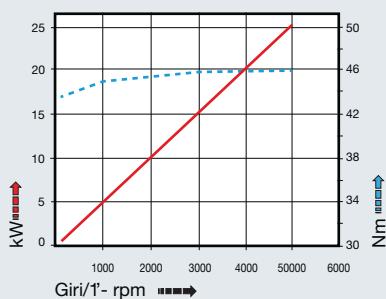
	ø 16
	M12
	1-1
	5000

## peso/weight



6,5 kg

## prestazioni/performances



## soluzioni speciali - special solutions





# TAV10.PVDI

## caratteristiche/features



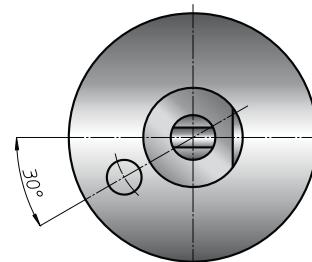
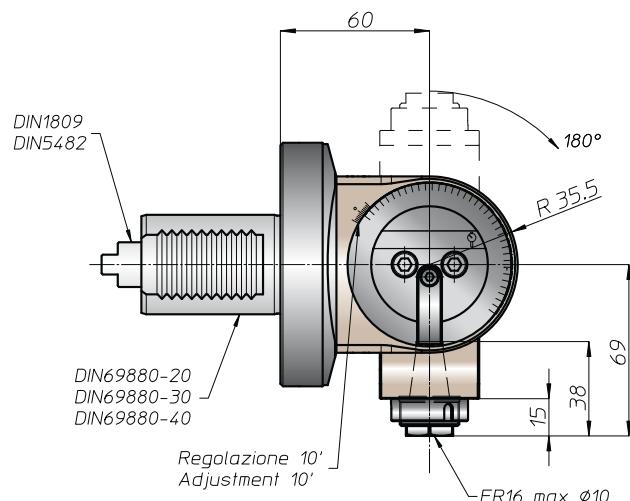
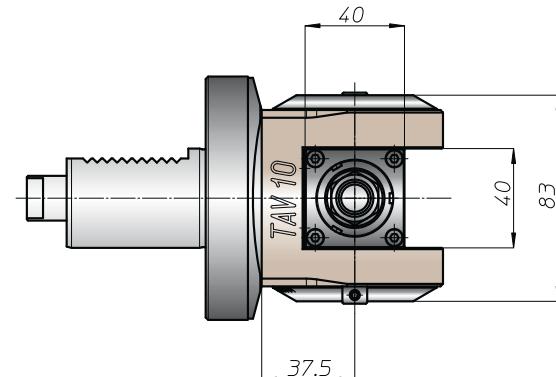
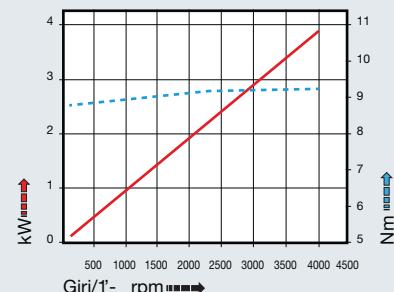
## peso/weight



rotazione/rotation



## prestazioni/performances



## soluzioni speciali - special solutions



# TAV13.PVDI

## caratteristiche/features



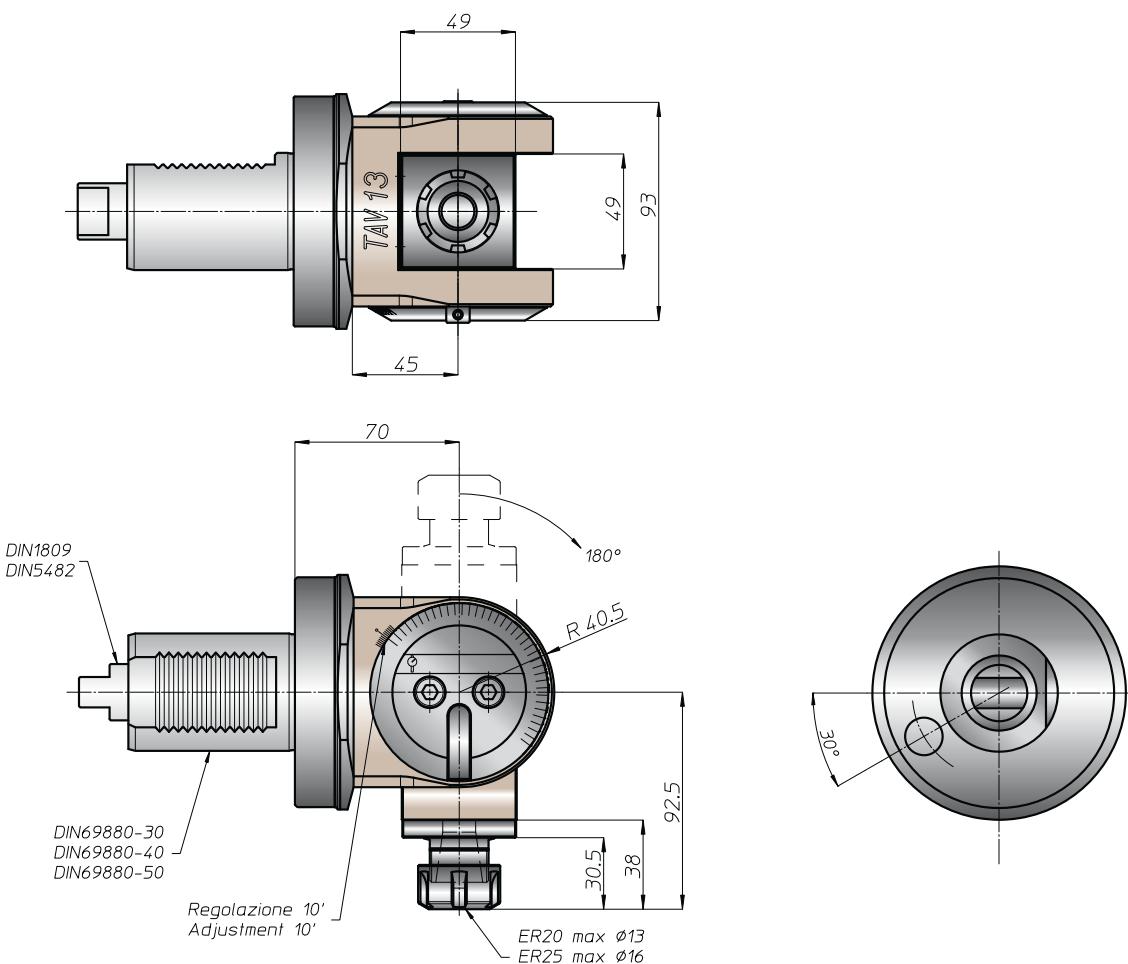
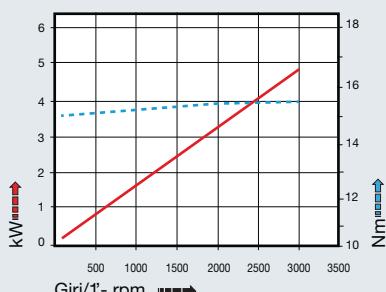
## peso/weight



## rotazione/rotation



## prestazioni/performances



## soluzioni speciali - special solutions





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

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

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

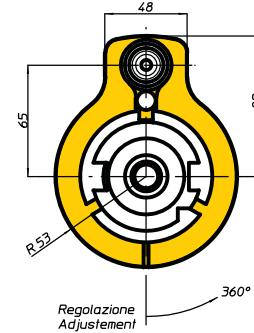
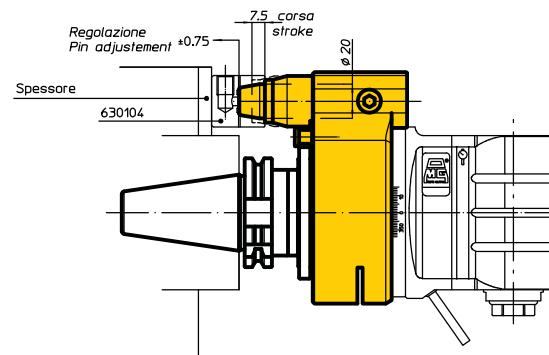
L'adduzione del liquido passante per il corpo testa, la cui uscita avviene tramite un ugello direzionale, offre il vantaggio di non avere tubi "volanti" che possono muoversi durante le lavorazioni.



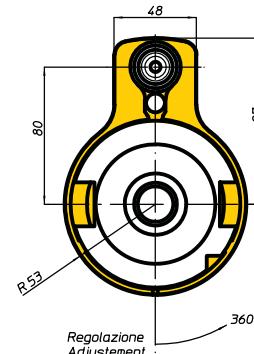
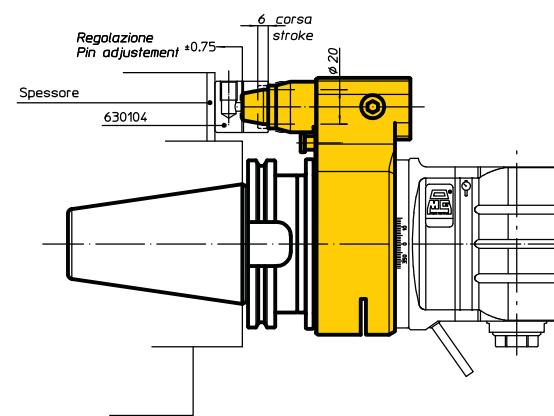
Quando possibile, nella Vostra applicazione, posizionate il perno conico dalla parte opposta al mandrino della testa ad angolo.

# Antirotante Torque arm

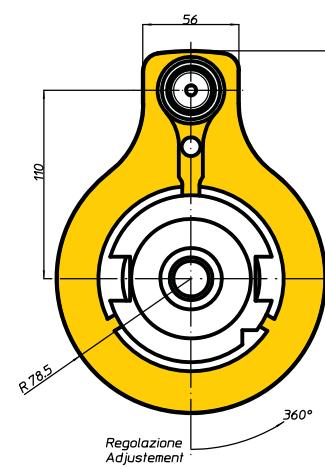
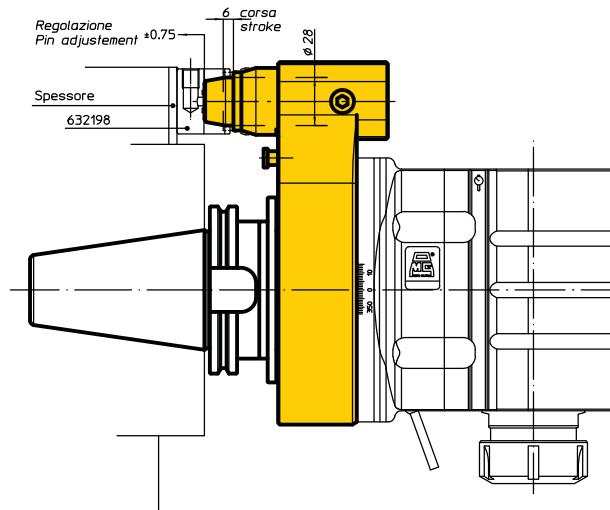
Teste ad angolo con interasse H=65  
Angle heads with centre distance H=65



Teste ad angolo con interasse H=80  
Angle heads with centre distance H=80



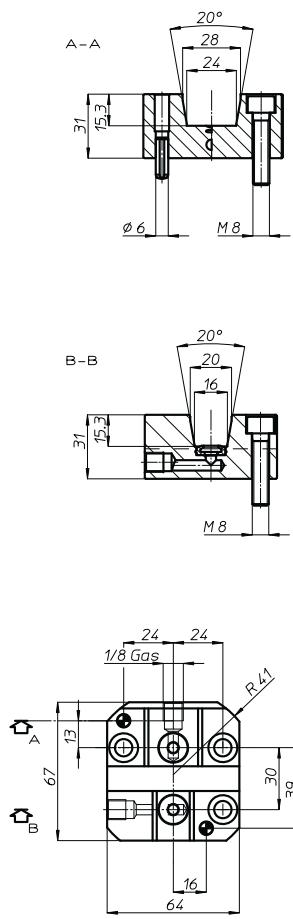
Teste ad angolo con interasse H=110  
Angle heads with centre distance H=110



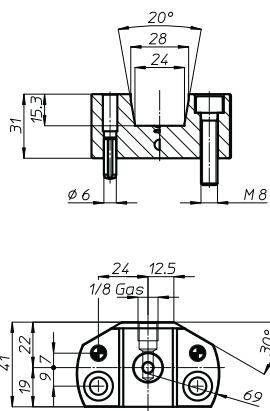
# Stop-block



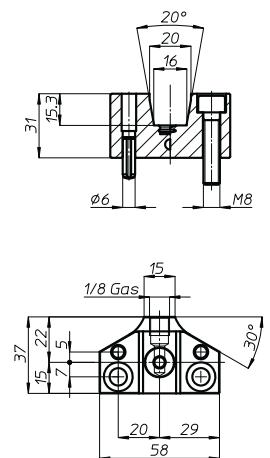
Double Stop-block (cod. 632199)



Stop-block (cod. 632198)



Stop-block (cod. 630104)



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

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

The conical pin and its 1.5 mm axial adjustment ensure upgraded antirotation system strength compared to traditional systems, featuring Ø 18 mm pin, because play is eliminated, thereby improving both angular and axial strength.

By the pin the coolant through the head, thanks to an adjustable nozzle, the added advantage is achieved of eliminating "free" pipes that could move during machining operations.

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



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

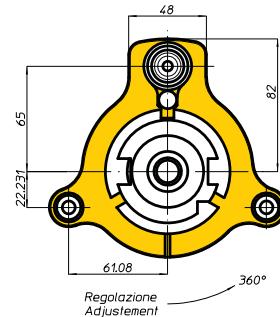
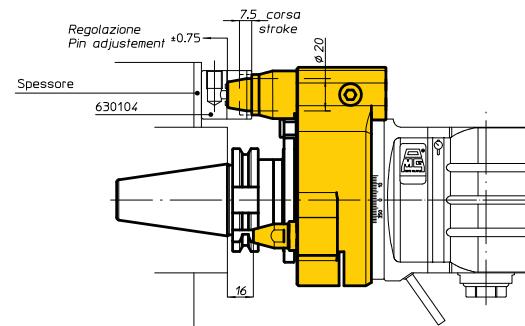
- eseguire una lavorazione più pesante
- essere più lunga dello standard
- finitura superficiale eccellente

Il TRIBLOCK è dotato di tre punti di appoggio di cui uno è lo standard come nei precedenti e due supplementari da registrare tramite un raccordo. Questi tre punti, allargando l'appoggio di base della testa ad angolo, consentono di ottenere una rigidità superiore allo standard. Quando poi si richiede alla testa di essere immagazzinata su di un supporto esterno al magazzino standard, ecco che il TRIBLOCK utilizza i propri tre punti per posizionare la testa.

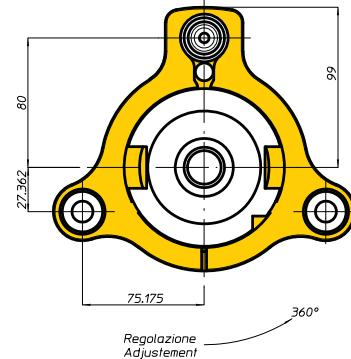
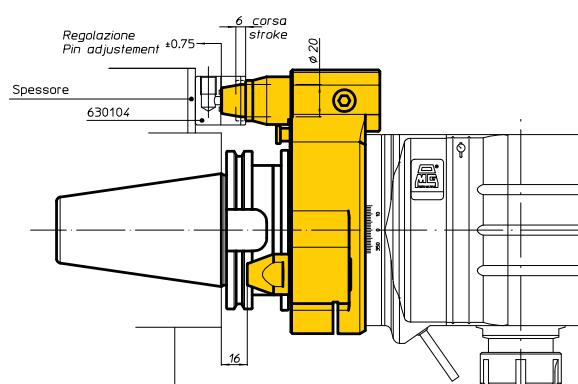
# Antirotante TRIBLOCK

## Torque arm TRIBLOCK

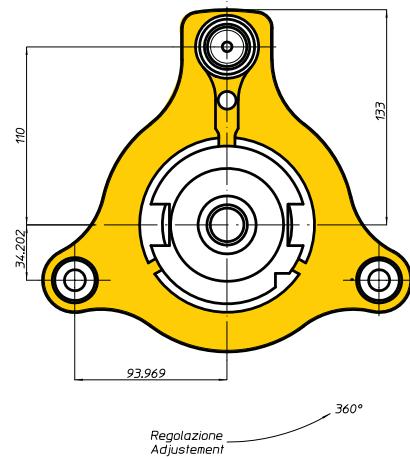
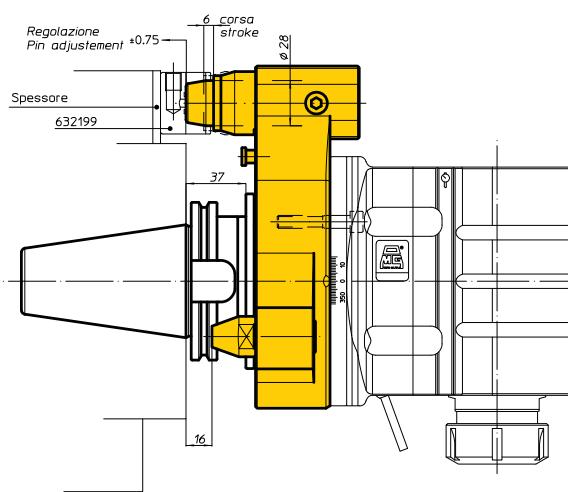
Teste ad angolo con interasse H=65  
Angle heads with centre distance H=65



Teste ad angolo con interasse H=80  
Angle heads with centre distance H=80



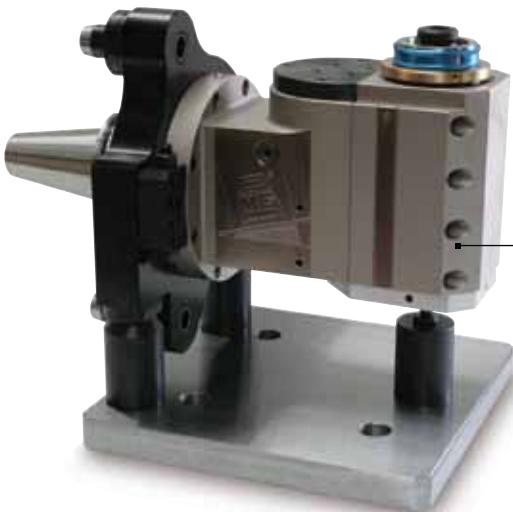
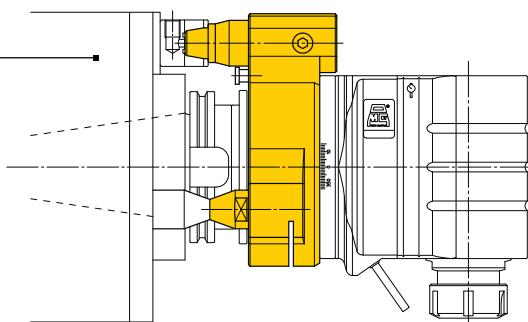
Teste ad angolo con interasse H=110  
Angle heads with centre distance H=110



# Antirotante TRIBLOCK

## Torque arm TRIBLOCK

Sul mandrino macchina  
On spindle machine

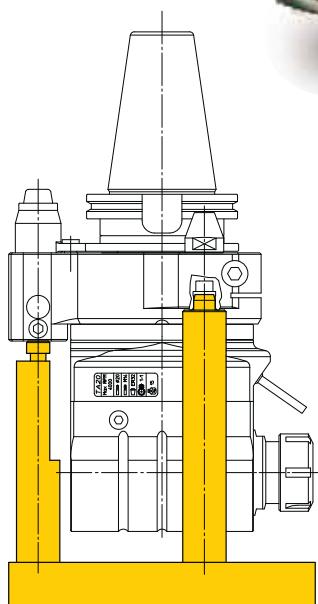


**TFS 19907**  
Testa ad angolo per fresatura  
componente motore a reazione.  
Peso Kg 45,5  
Milling angle head for jet engine.  
Weight Kg 45,5



**TFS 39195**  
Testa bimandrino di fresatura n° 2 fresa  
Ø 100 peso Kg 33  
Twin milling head, nr. 2 milling cutter  
Ø 100 weight Kg 33

Sul supporto da tavola  
On rack table



The Triblock system is of crucial importance when it comes to:

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

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

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

TA

MO

HT

VH

TSI/TSX

MT-Tc-Tc3

Accessori  
Accessories

Appendice tecnica  
Technical supplement



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

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

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

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

# Antirotante QUADBLOCK

## Torque arm QUADBLOCK



**TAS13609**

Fresatura su corpo in fusione di ghisa. Peso kg 36.

*Milling on cast iron pump's body. Weight 36 kg.*



**TAS13209**

Lavorazione di finitura interna culle motore idraulico. Peso kg 36.

*Internal finishing work for hydraulic motor's body. Weight 21 kg.*



**TAS16209**

Linee di servizio per il mandrino HSK63F con cambio automatico dell'utensile, sensore presenza utensile in radiofrequenza.

Peso kg 28.

*Utility line for HSK63F spindle with automatic tool change, radio-frequency switch to verify tool presence. Weight 28 kg.*

# Antirotante QUADBLOCK

## Torque arm QUADBLOCK

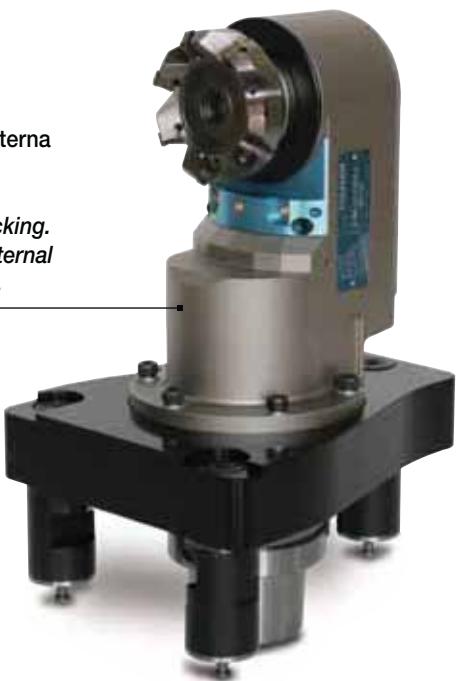
### TAS24408

Lavorazione di fresatura interna corpo pinza freno in ghisa.

Peso Kg 28.

*Triblock with automatic locking.*

*Cast iron brake housing internal milling work. Weight 28 kg.*



### TA12907

Lavorazione di fresatura generica struttura elettrosaldata di acciaio.

Peso Kg 48.

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

*Weight 48 kg.*

### TAS08606

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

Peso kg 36.

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

*Weight kg 36.*



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

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

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

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

# Teste ad angolo speciali

## *Special angle heads*

**TFS 41304**

Testa ad angolo di fresatura con mandrino ribaltato.

Fresa Ø 200. Peso Kg 327,5.

*Milling angle head with reverse spindle.*

*Milling tool Ø 200. Weight Kg 327,5.*

**TFS 05303**

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

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

**TAS 15505**

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

*Drilling and milling angle head, automatic tools changer CAPTO C4.*

*Weight Kg 130.*

**TFS 23301**

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

*Drilling angle head with three spindles weight kg 5,9*

**TFS 39998**

Testa ad angolo universale.

Presa utensili ISO50, peso kg 580

*Angle head with tool shank ISO50, weight kg 580*

# Teste ad angolo speciali

## Special angle heads



**TFS 36699**  
Testa ad angolo bimandrino  
registrabile, peso kg 29  
*Adjustable twin angle head,  
weight kg 29*

**TFS 34004**

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



**TA 09603**  
Testa ad angolo di alesatura con  
utensile Ø 160 peso Kg 77  
*Boring angle head with tools  
Ø 160 weight Kg 77*

**TFS 08993**

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



**TFS 06003**  
Testa ad angolo di fresatura con  
fresa Ø 110 peso Kg 210  
*Milling angle head with milling  
cutter Ø 110 weight Kg 210*

# Teste ad angolo speciali

## *Special angle heads*

**TAS 33206**

Testa bimandrino di fresatura  
per frese Ø 160 peso kg 63

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

**TFS 21701**

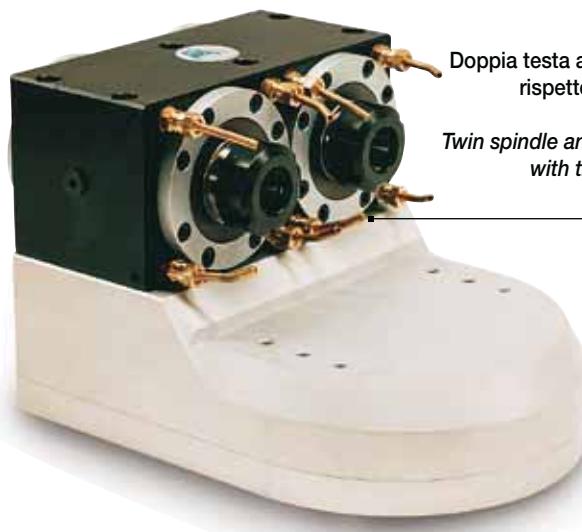
Testa di fresatura a due mandrini  
paralleli, peso kg 14

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

**TFS 34495**

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

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

**TFS 16696**

Doppia testa ad angolo disassata  
rispetto all'asse macchina

peso kg 24

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

**TFS 36994**

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

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

# Teste ad angolo speciali

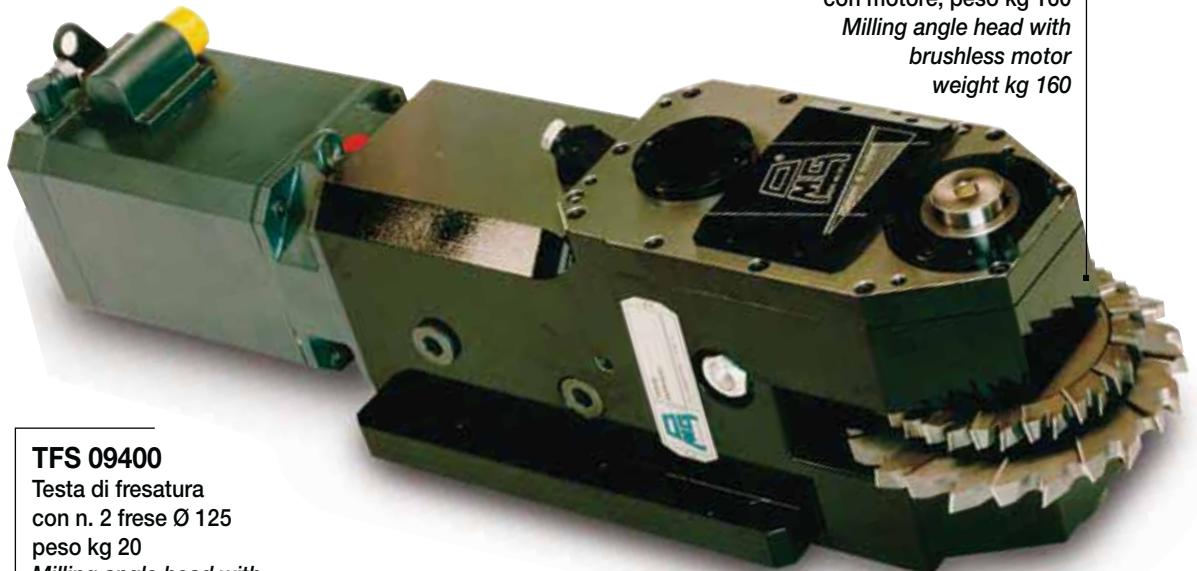
## Special angle heads

**TFS 12101**

Testa di fresatura con cono ISO30  
peso kg 16  
*Milling angle head with ISO30  
weight kg 16*

**TFS 13094**

Testa ad angolo disassata  
rispetto all'asse macchina  
peso kg 17  
*Angle head not in line  
with the machine spindle  
weight kg 17*

**TFS 50900**

Testa di fresatura  
con motore, peso kg 160  
*Milling angle head with  
brushless motor  
weight kg 160*

**TFS 09400**

Testa di fresatura  
con n. 2 frese Ø 125  
peso kg 20  
*Milling angle head with  
nr. 2 milling cutter Ø 125  
weight kg 20*

**TFS 24196**

Testa ad angolo bimandrino per  
fresatura su scatola del cambio  
peso kg 70  
*Twin milling spindle angle head  
on gear box weight kg 70*

# Teste ad angolo speciali

## *Special angle heads*

**TAS 41504**

Testa ad angolo mandrino di fresatura. Peso Kg 338.

*Twin milling angle head.*

*Weight Kg 338.*

**TFS 35698**

Testa ad angolo di fresatura con fresa Ø 100 peso Kg34

*Milling angle head, with*

*milling cutter Ø 100*

*weight Kg 34*

**TFS 12005**

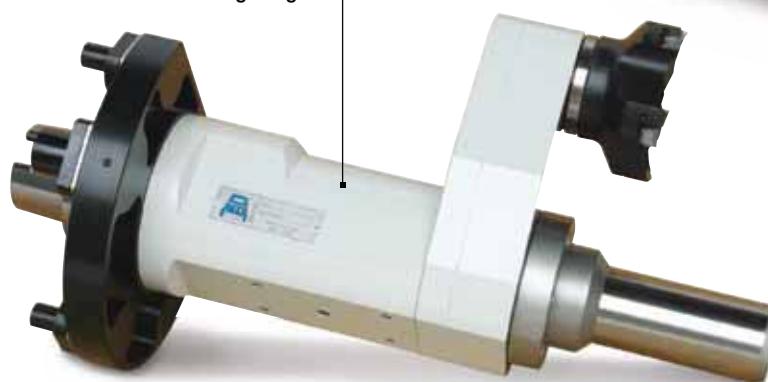
Testa ad angolo disassata per fresature Ø 150.

Peso Kg 48.

*Shift spindle angle head,*

*milling tools Ø 150.*

*Weight Kg 48.*

**TFS 28603**

Testa di fresatura con n. 4 fresa a disco Ø 125. Peso Kg 218.

*Milling head, nr. 4 milling disc*

*cutter Ø 125. Weight Kg 218.*



# Teste ad angolo speciali

## Special angle heads



**TFS 33303**  
Testa ad angolo disassata per foratura. Peso Kg 9,4.  
*Angle head with shift drilling spindle.*  
*Weight Kg 9,4.*



**TFS 12095**  
Testa ad angolo di foratura peso kg 5  
*Drilling angle head weight Kg 5*



**TAS 30505**  
Testa ad angolo di foratura HSK100 entrata e uscita.  
*Peso Kg 50.*  
*Drilling angle head, HSK 100 input-output. Weight Kg 50*



**TFS 33503**  
Testa ad angolo di lucidatura con doppia rotazione, sia corpo che utensile.  
*Peso Kg 6,5.*  
*Polish angle head with double rotation: body and tools. Weight Kg 6,5.*



**TFS 13198**  
Testa ad angolo disassata per foratura peso kg 5  
*Angle head with shift spindle weight kg 5*

# Teste ad angolo speciali

## *Special angle heads*



**TFS 39997**  
Testa ad angolo speciale  
bimandrino per foratura e  
maschiatura peso kg 16  
*Twin angle head for  
drilling and tapping  
weight kg 16*

**TAS 13806**  
Testa bimandrino Capto C5  
manuale, peso kg 33  
*Twin angle head with Capto C5  
manual clamping tool  
weight kg 33*



**TAS 39806**  
Testa di foratura a due mandrini  
con refrigerante attraverso il  
centro utensile a 50 Bar  
peso kg 21  
*Twin drilling angle head with  
coolant through the centre tool  
at 50 Bar, weight kg 21*



**TAS 08606**  
Testa fresatura conica su acciaio  
peso kg 23  
*Milling angle head with conical tool  
weight kg 23*



**TFS 40601**  
Testa ad angolo bimandrino,  
angolo tra i due mandrini 176°,  
peso Kg 13  
*Twin angle head, angle 176°  
between spindles, weight Kg 13*



# Teste ad angolo speciali

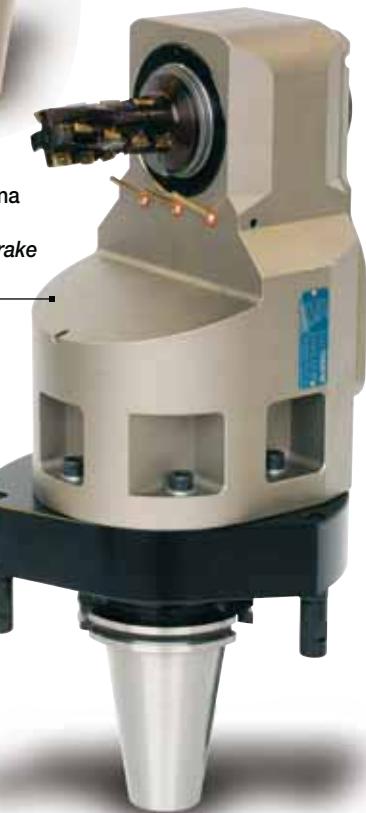
## Special angle heads



**TFS 20298**  
Testa bimandrino di fresatura  
n°2 fresa Ø 120 peso kg 25  
*Twin milling angle head, nr.2  
milling cutter Ø 120  
weight kg 25*



**TA 05500**  
Testa ad angolo di fresatura  
con fresa Ø125 peso kg 17  
*Milling angle head with milling  
cutter Ø 125, weight kg 17*



**TAS 20706**  
Testa per fresatura interna  
pinza freno peso Kg 23  
*Angle milling head for brake  
housing weight Kg 23*



**TAS 39706**  
Testa di fresatura per  
supporto motore frese  
Ø160/180 peso kg 31  
*Milling head for engine's  
bracket milling cutter  
Ø160/180 weight kg 31*



**TA 34397**  
Testa ad angolo  
di fresatura  
con cono ISO20  
peso kg 0,9  
*Milling angle head  
with shank ISO20  
weight kg 0,9*



**TFS 39999**  
Testa ad angolo  
speciale fresatura  
su plastica peso kg 4  
*Milling angle head  
for plastic weight kg 4*

**TA 17292**  
Testa ad angolo di fresatura  
n. 2 fresa per legno  
peso kg 3  
*Twin angle head with nr. 2  
milling cutter for wood  
weight kg 3*



# Teste ad angolo speciali

## *Special angle heads*

**TAS 37806**

Testa ad Angolo di fresatura componente aeronautico, materiale Inconel. Peso Kg 40  
*Milling Angle Head for aeronautic piece, Inconel alloy material. Weight Kg 40*

**TFS 23910**

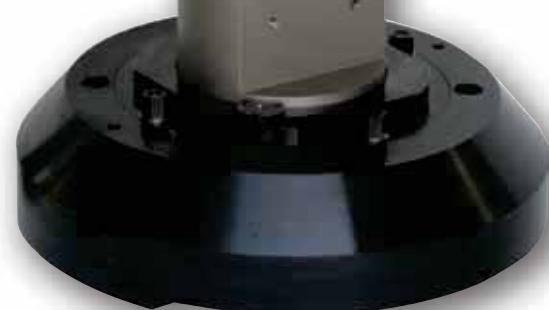
Testa ad Angolo bimandrino, fresatura di componente in ghisa. Peso Kg 50  
*Twin Angle Head, milling cast iron pieces. Weight Kg 50*

**TFS 31110**

Testa ad Angolo di foratura con mandrino HSK50 ribaltato. Peso Kg 31  
*Drilling Angle Head with HSK50 reverse spindle. Weight Kg 31*

**TAS 10708**

Testa ad Angolo lunghezza mm 1.000, fresatura di cave su acciaio. Peso Kg 216  
*Angle Head overall lenght mm 1.000, milling key-way on steel. Weight Kg 216*

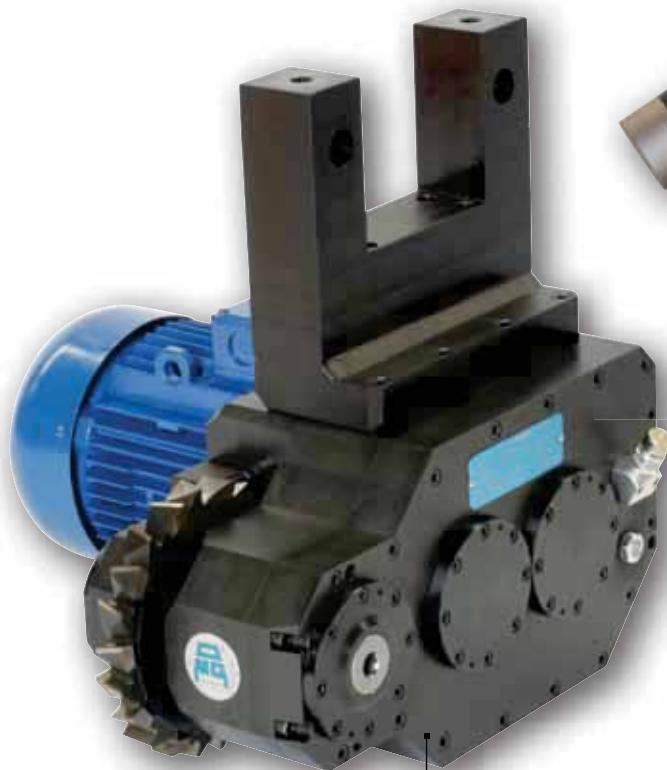
**TAS 13910**

Testa ad Angolo di foratura con mandrino ER25. Peso Kg 31  
*Drilling Angle Head with ER25 spindle. Weight Kg 31*



# Teste ad angolo speciali

## Special angle heads



**TFS 05609**  
Testa ad Angolo di fresatura  
per tornio verticale.  
Peso Kg 286  
*Milling Angle Head for vertical lathe. Weight Kg 286*



**TAS 08411**  
Testa ad Angolo con tre mandrini  
di foratura con avanzamento  
idraulico. Peso Kg 17,5  
*Drilling Angle Head with three spindles, hydraulic spindles feed. Weight Kg 17,5*

**TFS 26908**  
Testa ad Angolo bimandrino  
di foratura per macchina  
transfer. Peso Kg 9,5  
*Twin drilling Angle Head for transfer machine.*  
*Weight Kg 9,5*



**TAS 19610**  
Testa ad Angolo di fresatura  
per macchina transfer.  
Peso Kg 35  
*Milling Angle Head for transfer machine. Weight Kg 35*



**TAS 28010**  
Testa ad Angolo con tre  
assi a regolazione manuale.  
Peso Kg 590  
*Angle Head with three manual movement axis.*  
*Weight Kg 590*

# Teste ad angolo speciali

## *Special angle heads*

**TAS 19010**

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

Peso Kg 5

*Drilling Angle Head for transfer machine. Max RPM 20.000.**Weight Kg 5***TAS 26810**Testa ad Angolo TAO20, utilizzata in fresatura su torretta a revolver HT250. Peso Kg 14  
*Milling Angle Head TAO20, assembled on HT250 turret head. Weight Kg 14***TAS 09407**

Testa ad Angolo per fresatura canna di fucile.

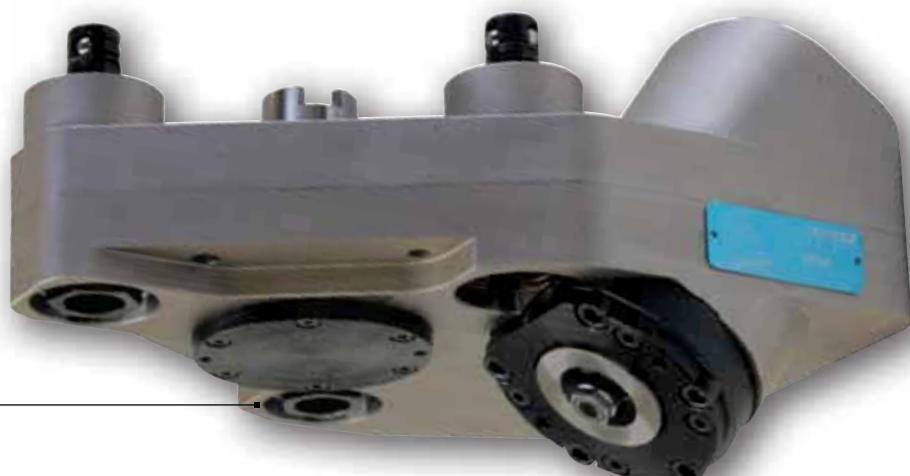
Peso Kg 6,5

*Milling Angle Head for rifle barrel. Weight Kg 6,5***TAS 16308**

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

*Drilling Angle Head with spindle HSK32 with automatic tool changer. Weight Kg 13,5***TFS 06906**

Testa ad Angolo di foratura scatola sterzo. Peso Kg 10

*Drilling Angle Head for steering body.**Weight Kg 10*

# Teste ad angolo speciali

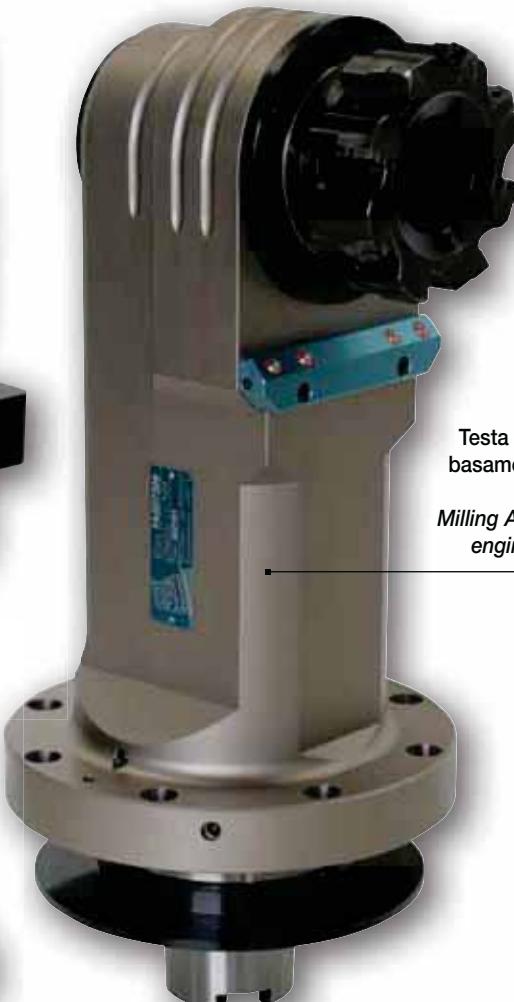
## Special angle heads

**TAS 24508**

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

**TAS 07309**

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

**TAS 24010**

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

**TAS 07509**

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

**TAS 28606**

Testa ad Angolo di foratura compone-  
nte aeronautico con mandrino HSK50,  
materiale Inconel. Peso Kg 27  
*Drilling Angle Head with HSK50 spin-  
dle for aeronautic piece, Inconel alloy  
material. Weight Kg 27*