Classic Line
TESTE ANGOLARI - ANGLE HEADS



MADE IN ITALY

1

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ATC - AUTOMATIC TOOL CHANGE

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GL90-10	G90-7 / 7L	G90-20L/272
GL90-16	G90-10 / 10L	G90-S40/280
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MTC - MANUAL TOOL CHANGE

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ACCESSORIES

ATC - AUTOMATIC TOOL CHANGE

OPZIONE REFRIGERANTE INTERNO MODULAR QUICK CHANGE ADAPTORS	**ESEMPIO DI MONTAGGIO** MOUNTING EXAMPLE
OPZIONE DOPPIA USCITA DOUBLE OUTPUT OPTION	**STOP-BLOCK** STOP-BLOCK
GHIERE RECOOL RECOOL NUTS	**GRUPPO ANTIROTANTE** ANTI-ROTATION GROUP
ESEMPIO SCHEDA DI COLLAUDO INSPECTION SHEET EXAMPLE	**GRUPPO PERNO SPECIALE** SPECIAL PIN GROUP
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series GMU | series DOUB2E NEW | series OFFSET NEW

ATC - AUTOMATIC TOOL CHANGE

GMU-13	G90-16 2U	G90-30L 2U	GR90-5
GMU-13L	G90-16L 2U		GR90-10
GMU-16	G90-20 2U		GR90-16
GMU-20	G90-20L 2U		GR90-S40
	G90-30 2U		

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series GMU | series DOUB2E NEW

MTC - MANUAL TOOL CHANGE

GMU-16	G90-16 2U	G90-30L 2U
GMU-20	G90-16L 2U	
GMU-S40-125	G90-20 2U	
GMU-S40	G90-20L 2U	
GMU-S50	G90-30 2U	

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ACCESSORIES

MTC - AUTOMATIC TOOL CHANGE

OPZIONE REFRIGERANTE INTERNO
INTERNAL COOLANT OPTION

CONI / FLANGE / PROLUNGHE
SHANKS / FLANGES / EXTENSIONS

ESEMPIO SCHEDA DI COLLAUDO
INSPECTION SHEET EXAMPLE

ESEMPIO DI MONTAGGIO
MOUNTING EXAMPLE

ATC & MTC

PINZE / GHIERE / CHIAVI
COLLETS / NUTS / WRENCHES

1

Linea Classic

Teste Angolari Integrali

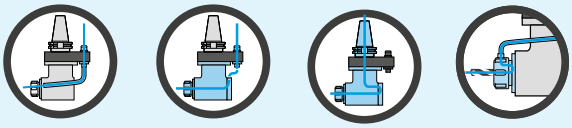
Le teste angolari Gerardi della nuovissima Linea Classic nascono da solide basi tecniche e dall'esperienza maturata in oltre 40 anni trascorsi al fianco dei nostri clienti durante i quali abbiamo risolto i problemi più variegati cercando la soluzione migliore e garantendo sempre l'elevata qualità ed affidabilità dei nostri prodotti.
141 modelli di teste angolari standard, ideati, realizzati e distribuiti in oltre 60 paesi nel mondo dalla Gerardi S.p.A., corredati da una gamma di opzioni che ne completano le potenzialità applicative e prestazionali.



Fig.1

Caratteristiche tecniche principali:

1- Corpo in acciaio sabbiato e cromato ad alta resistenza
2- Albero con cono di attacco integrale (cementato, temprato e rettificato) per garantire la massima rigidità
3- Ciascun albero di trasmissione è supportato da una coppia di cuscinetti a contatto obliquo, precaricati in classe di precisione ABEC 9 e lubrificati con grasso a vita.
4- Ingranaggi conici spiroidali in materiale ad alta resistenza, rettificati per garantire minore riscaldamento e rumorosità ed elevato numero di giri. Calcolo computerizzato della coppia conica degli ingranaggi (gleason): più denti in presa, più coppia in uscita, maggior numero di ore di lavorazione, rumorosità quasi assente.
5- Pesi e ingombri ridotti rispetto ai modelli corrispondenti della linea Evolution.
6- Doppia tenuta anteriore (labirinto + tenuta).
7- Adduzione refrigerante esterno tramite perno e pressurizzazione interna compresa nel prezzo (a)
8- Opzione adduzione refrigerante interno attraverso l'utensile:
- 10 bar tramite distributore rotante (b)
- Da **30 a 70 bar** tramite mandrino macchina, rotazione a secco non possibile (c)
- Ghiere speciali ReCool per ottenere il passaggio refrigerante tramite utensile anche su teste che non prevedono questa opzione. (d)



9- Alta velocità fino a 10.000 giri.
10- Compatibilità con le teste da sempre installate (perno anti-rotazione e stop block identici).
11- 100% Made in Italy, le teste angolari Gerardi Classic Line sono progettate ed interamente realizzate in Italia e sono coperte da 1 anno di garanzia.

Per caratteristiche tecniche, prestazioni e dotazione standard, fare riferimento alle pagine successive

Serie ATC

da pag 1.9 a 1.43



E' la linea di teste adatte ai centri di lavoro, trasportabile automaticamente dal magazzino utensili al mandrino e viceversa. L'anello di orientamento e la flangia di indexaggio, che supporta il perno di fermo, sono entrambi posizionabili su 360° consentendo una facile ottimizzazione degli orientamenti angolari del cono e del corpo testa rispetto al tassello di fermo disposto sul mandrino del centro di lavoro.
Quando la testa non è in posizione di lavoro, un sistema di aggancio impedisce la rotazione del cono rispetto al corpo testa.
Una caratteristica primaria delle teste Classic - ATC è l'albero centrale realizzato in un solo pezzo con il cono di attacco, per offrire la massima rigidità. (FIG.1)
Recentissima novità è il perno di fermo intercambiabile.

Serie MTC

da pag 1.45 a 1.73



E' la linea di teste adatte a macchine utensili tradizionali e da fissare al mandrino tramite flangiatura. La cava a "T" ricavata sulla flangia universale permette un facile posizionamento del corpo testa sui 360° intorno al suo asse verticale. Un sistema modulare componibile, rende possibile variare la lunghezza del corpo testa aggiungendo l'elemento di prolunga. Modulo di prolunga, coni e flangia universale sono modulari e quindi intercambiabili su tutti i corpi testa appartenenti allo stesso ordine di grandezza.



Classic Line

Integral Angle Heads

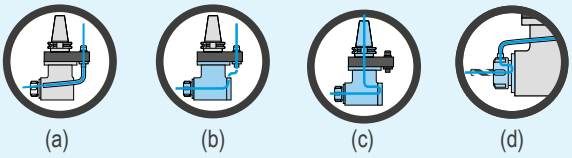
The new Classic line of Gerardi angle heads has been designed from a technical base derived from more than 40 years experience of solving thousands of production problems, finding optimum solutions and always guaranteeing the highest product quality. 141 standard angle head types are now offered, designed, built and distributed in more than 60 countries the world over by Gerardi S.p.A., and available with a range of options to complete their application and performance potentials.



Pic.1

Main Technical features:

1- Minimum thermal expansion and high corrosion resistant treated steel body
2- Main shaft is one solid piece with the drive input taper, case hardened and ground, to ensure maximum rigidity
3- Shafts supported by sets of super precision pre-loaded angular contact bearings with Long Life grease lubrification and ABEC 9 accuracy rating
4- Ground spiral bevel gears in the highest performance materials able to guaranteed less warming and noise and the highest Rpm. Computerized computation of the data of the set gears more than one tooth working during mesch, more power transmitted, longer gear life, almost no noise
5- New types of longer angular heads with reduced weights and owerall dimensions
6- Double seals on the front (mechanical seal + gasket)
7- External coolant through the pin and internal air pressure included as a standard option. (a)
8- Internal coolant feed through the tool options:
- 10 bar through rotating distributor (b)
- From **30 to 70 bar** through machine spindle, dry running not possible (c)
- Special ReCool nuts to get the internal coolant through the tool even on angle heads that aren't fitted for this option. (d)



9- High speed until 10.000 rpm
10- 100% compatibility with heads installed during the last 40 years (same anti-rotation/arrester pin and stop block dimensions)
11- GERARDI Classic angle heads have been designed and are manufactured in Italy. They are covered by 1 year warranty.

For technical features, performances and standard equipment, please refer to the following pages.

ATC Series

From page 1.9 to 1.43



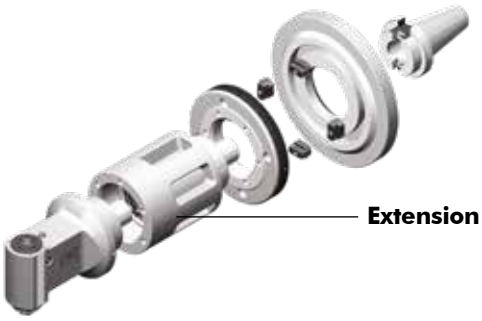
This range of heads is designed to be used on machining centres and can be automatically tranferred from the tool magazine to the machine spindle and back. The orientation ring and the arrester arm, which carries the arrester pin, can both be rotated through 360°.
This allows easy adjustment of the drive taper and head relative to arrester block mounted on the front of the machining centres' spindle housing.
When the head is unloaded from the machine spindle, a safety latch prevents the drive taper from rotating.
A major feature of the Classic ATC heads is the main input shaft which is integral with the drive taper to ensure maximum rigidity. (PIC.1)
The last news is the interchangeable positioning pin.

MTC Series

From page 1.45 to 1.73



This is a range of heads for traditional machine tools with flange attachment.
The T-slot on the universal flange facilitates positioning the head 360° around its vertical axis. The modular system makes it possible to extend the lenght of the body by additing a spacer.
The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.



NOVITÁ CLASSIC LINE
EVOLUTION CLASSIC NEWS

NEW

- Testa LIGHT GTU 0°-360°
- Angle head LIGHT GTU 0°-360°

Pag - Page 1.14

series LIGHT



La nuova testa GTU permette lavorazioni sotto squadra impossibili prima d'ora su normali teste ATC

The new GTU head allows to perform works under-cut, which were impossible before with standard ATC heads.



- Teste Angolari GMU-L
- GMU-L Angle Heads

Pag - Page 1.31

series GMU



La serie di teste angolari con angolazione regolabile da 0 a 90°. NUOVA lunghezza disponibile.

Angle heads series with adjustable angle from 0 to 90°. NEW lenght available.



- Refrigerante 70 BAR
- Internal Coolant 70 BAR

Pag - Page 1.22 - 1.29

series STD 90°



Passaggio refrigerante interno diretto all'utensile fino a 70bar e dal mandrino e attraverso il distributore rotante.

Internal coolant through the tool up to **70bar** directly from the main spindle and through the rotating distributor.



- Teste disassate GR90
- Offset Angle head GR90

Pag - Page 1.40 - 1.43

series OFFSET



Nuova gamma di teste disassate con refrigerante interno fino a 70bar.

New offset heads range with internal coolant up to 70 bar.



- Testa G90-5
- Angle heads G90-5

Pag - Page 1.15

series STD 90°



Nuovo modello di testa standard a 90° per MICRO lavorazioni in ingombri minimi

New standard 90° head type for MICRO machining in minimum overall spaces



- Teste con DOPPIA USCITA
- Angle heads with DOUBLE OUTPUT

Pag - Page 1.34 - 1.39

series DOUB2E



Nuova gamma di teste con doppia uscita simmetrica.

New double symmetric output heads range.



SIMBOLOGIA DATI TECNICI
TECHNICAL DATA LOGOS

Rapporto trasmissione Ratio	**Numero di giri** Revolutions per minute Rpm	**Carico assiale** Axial load N	**Coppia** Torque Nm	**Peso** Weight Kg	**Uscita** Output Ø	**Maschio** Tapping M	**Pinza** Collet Ø

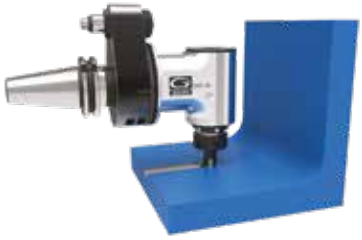
INDICE OPZIONI
OPTIONS INDEX

OPZIONI OPTIONS		**Alta velocità** High speed	**Spina per posizionamento rapido** Quick positioning pin	**Interasse speciale** Special pitch	**Lunghezze speciali** Special lenght	**Flangia Multipoint** Multipoint flange
PASSAGGIO REFRIGERANTE COOLANT		**Attaverso il perno** Through the Pin **10bar** (standard) ROTAZ. a SECCO DRY RUNNING √	**Perno » Distrib » Utensile** Pin » Distributor » Tool **10bar** ROTAZ. a SECCO DRY RUNNING √	**Cono » Distrib » Utensile** Shank » Distributor » Tool **30 / 40 / 70bar** ROTAZ. a SECCO DRY RUNNING NO	**Distributore » Utensile** Distributor » Tool **10bar** ROTAZ. a SECCO DRY RUNNING √	**Perno » Ghiera » Utensile** Pin » Distrib » Tool **ReCool NUT**
USCITA OUTPUT	**Uscita HSK** HSK output	**Uscita ISO** ISO output	**Uscita portafresa** Toolholder output	**Uscita WELDON** WELDON output	**Uscita C.** C. output	**Doppia uscita** Double ouput

SERIE ATC - CAMBIO UTENSILE AUTOMATICO
ATC SERIES - AUTOMATIC TOOL CHANGE

- **Serie G90**
- G90 Series

series
STD 90°

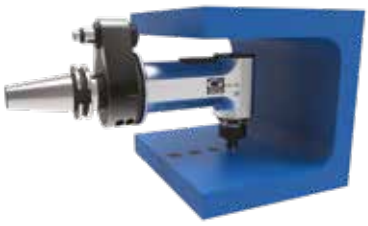


La serie ideale per fresature, forature e maschiature a ±90°

The ideal series for milling, drilling and tappint at ±90°

- **Serie G90L**
- G90L Series

series
STD 90°



La serie ideale per fresature, forature e maschiature profonde a ±90°

The ideal series for deep milling, drilling and tappint at ±90°

- **Serie G90 RI** NEW
- G90 RI Series

series
COOLANT



La serie di teste angolari con passaggio refrigerante diretto dal mandrino, uscita utensile fino a 70bar

Angle heads series with coolant input directly from machine spindle and output through the tool up to **70bar**

- **Serie GMU** NEW
- GMU Series

series
GMU



La serie di teste angolari con angolazione regolabile da 0 a 90°. Spina di posizionamento rapido (Step 15°)
Nuova testa GMU-13L

Angle heads series with adjustable angle from 0 to 90°. Quick positioning pin (Step 15°)
New angle heads GMU-13L

- **Serie G90 2U** NEW
- G90 2U Series

series
DOUB2E



La serie di teste angolari ideali per fresature, forature e maschiature attraverso 2 mandrini contrapposti di 180°

Angle Heads series for milling drilling and tapping through 2 opposite outputs

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- **Serie GR90** NEW
- GR90 Series

series
OFFSET



Testa angolari disassate per lavorazioni in spazi ristretti con opzione passaggio refrigerante dal cono, uscita utensile 70 BAR

Offset series for machining in narrow spaces with coolant input directly from machine spindle and output through the tool at 70 BAR

ATC SERIES
AUTOMATIC TOOL CHANGE



INGRANAGGI
GEARS

Ingranaggi Gleason con evolvente rettificato: massime performances e minori vibrazioni

Gleason ground spiral bevel gears maximum performances and minimum vibration



CUSCINETTI - BEARINGS

Cuscinetti a sfera a contatto obliquo in classe di precisione ABEC 9

Angular contact preloaded ball bearings of precision class ABEC 9

STOP BLOCK

con bussola cementata e guarnizione

with case hardened bushingand gasket



DESIGN

Il Design compatto, insieme alle specifiche descritte, consente: alte perfomances, elevate velocità, lunga durata degli utensili.

The Compact design, along with mentioned specifications, allows: highest performances, high speeds, long tools life



Albero integrale con cono cementato, temprato, rettificato

Integral case hardened and ground shank and shaft

Gruppo antirotante modulare

Modular antirotation group

Anello graduato

Graduated ring

Perno di riferimento con sbloccaggio automatico del porta utensile

Positioning pin with automatic tool release

Passaggio refrigerante 10BAR attraverso il perno

Standard 10BAR coolant through the pin

Corpo testa orientabile a 360° con pressurizzazione interna. In acciaio trattato, massima rigidità e resistenza alla corrosione. Minima dilatazione termica.

Treated steel head body with 360° position and internal air pressure, maximum rigidity and corrosion resistant. Minimum thermal expansion

USCITE
OUTPUTS:

- **Portapinza ER std**
- **Weldon**
- **Portafresa**
- **Speciale**

- ER collet (standard)
- Weldon
- Tool holder
- Special

Ciascun albero di trasmissione supportato da cuscinetti a contatto obliquo, che garantiscono rotazioni dell'albero-cono e dell'uscita portautensile entro 0,01 mm
Each transmission shaft is supported by slanting bearings that ensure the shaft with shank and the toolholder output rotations within 0,01mm.

series

LIGHT



Serie **LIGHT**

da pag 1.11 a 1.14

Caratteristiche tecniche principali:

- **Design ottimizzato per un miglior rapporto qualità prezzo.**
- **Corpo in alluminio.**
- **Riduzione significativa del peso.**
- **Perno di posizionamento conico.**

LIGHT Series

from page 1.11 to 1.14

Main technical features:

- Design studied for a best price-quality ratio.
- Aluminum body.
- Weight reduction.
- Tapered positioning pin.

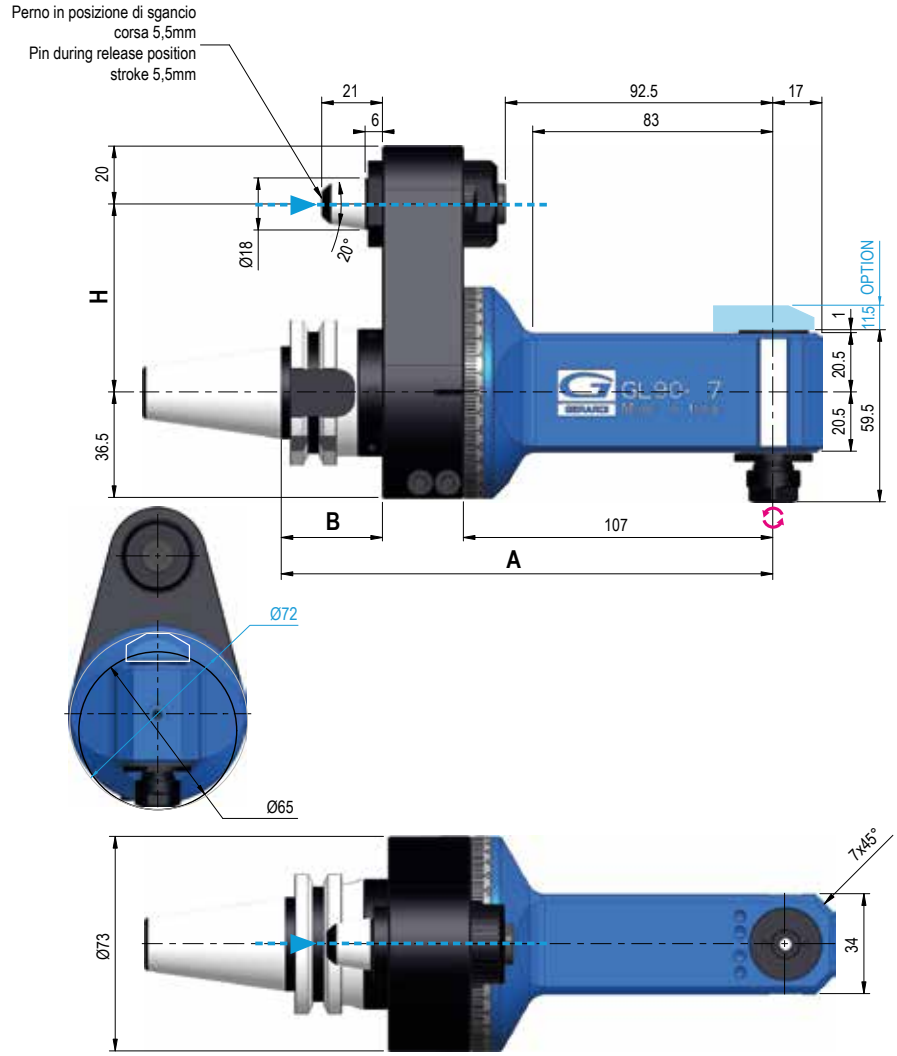
IDEALI PER MACCHINE UTENSILI FANUC / BROTHER / JINGDIAO - IDEALS FOR **FANUC / BROTHER / JINGDIAO** MACHINE TOOLS

GL90-7

TYPE 0

Code: 9.GL9.07000

Price:





Dati tecnici - Technical data

- Ratio 1:1
- ISO/BT30 2,2 Kg
- ISO/BT40 2,7 Kg
- Rpm 10.000
- Ø 7
- N 120
- M 6
- Nm 5
- ER11 Ø1/7

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50	BT MAS 403		HSK DIN 69893
Grandezza - Size	30	40	40	30	40	63
Prezzo EXTRA Price €	std	std	std	std	std	optional
H Standard	65 / 80		65 / 80	65 / 80		65 / 80
H Optional 110 *EXTRA Price* €	optional		optional	optional		optional
A	150		150	145	150	157
B	35		35	30	35	42

Dotazione Standard Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
10.000 Rpm
Included !!

REFR. DAL PERNO
COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

DOPPIA USCITA
DOUBLE OUTPUT
ER 11 / ER 8M
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Weldon Max Ø 6
optional

1

GL90-10

TYPE 0

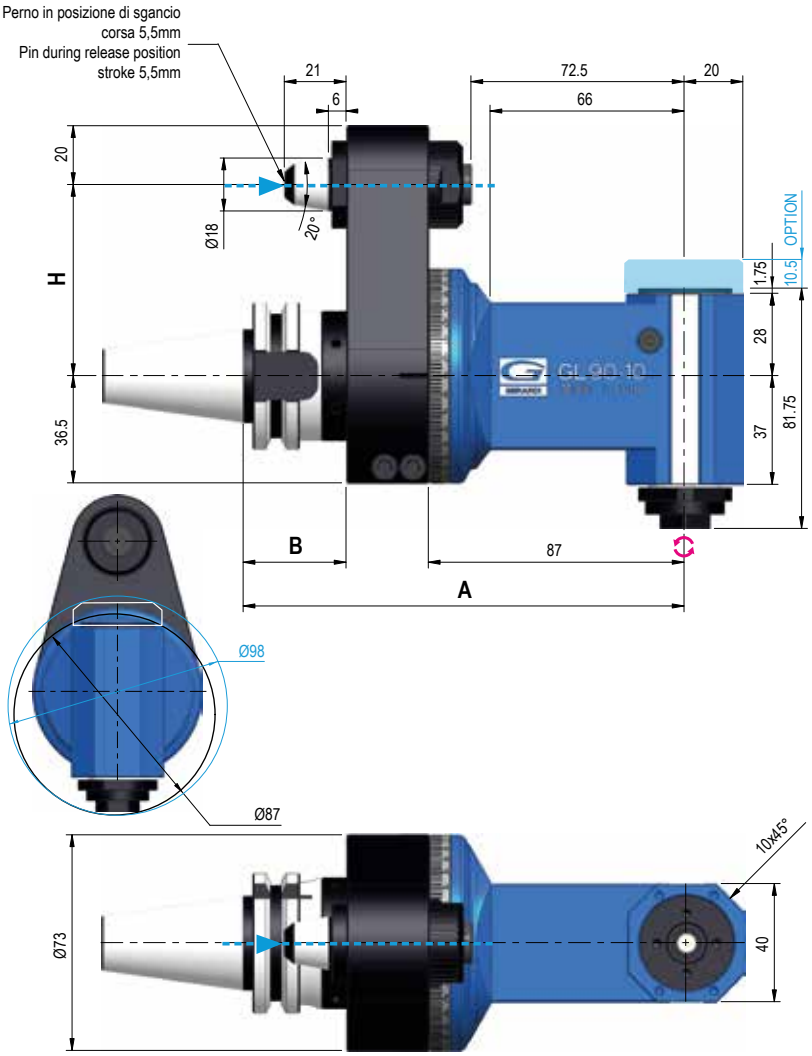
Code: 9.GL9.10000

Price:



Dati tecnici - Technical data

- Ratio 1:1
- *ISO/BT30* 2,4 Kg
  ISO/BT40 2,9 Kg
- Rpm 10.000
- Ø 10
- N 250
- M 8
- Nm 10
- ER16 Ø1/10



SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50	BT MAS 403		HSK DIN 69893
Grandezza - Size	30	40	40	30	40	63
Prezzo EXTRA Price €	std	std	std	std	std	optional
H Standard	65 / 80		65 / 80	65 / 80		65 / 80
H Optional 110 *EXTRA Price* €	optional		optional	optional		optional
A	150		150	145	150	157
B	35		35	30	35	42

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
10.000 Rpm
Included !!

REFR. DAL PERNO
COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

DOPPIA USCITA
DOUBLE OUTPUT
Portafresa - Toolholder Ø13
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Weldon Max Ø10
optional

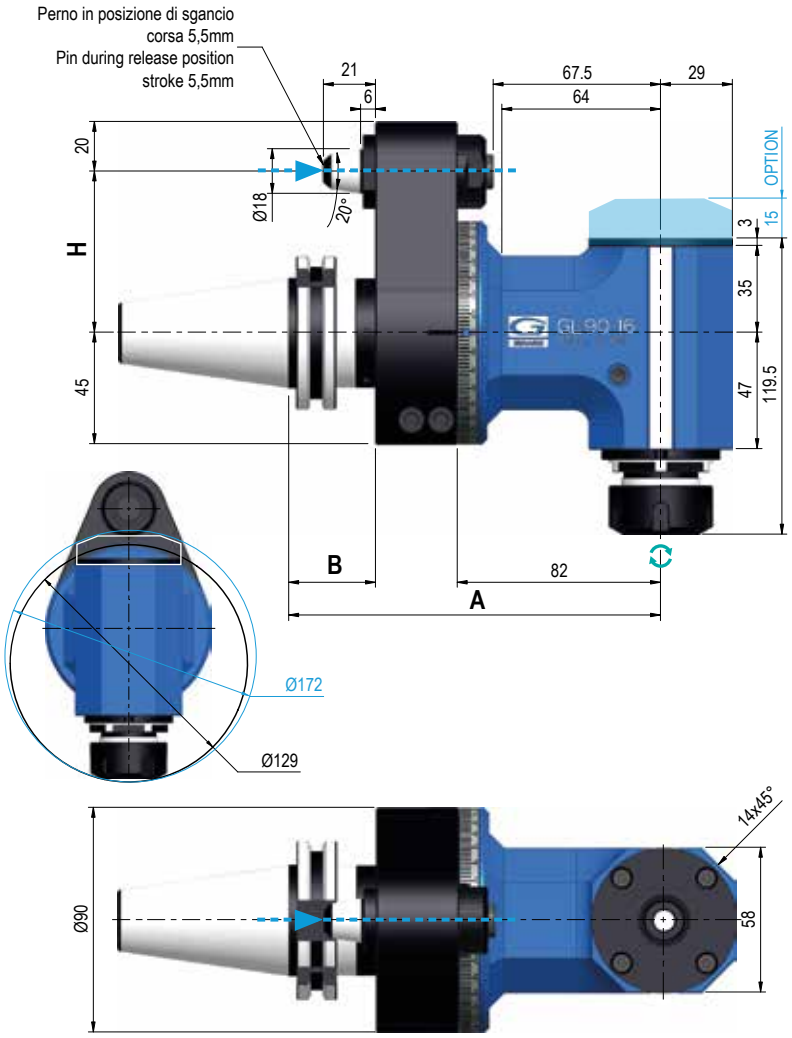
DOPPIA USCITA
DOUBLE OUTPUT
ER16 - ER11M
optional

GL90-16

TYPE 1

Code: 9.GL9.16000

Price:





Dati tecnici - Technical data

- Ratio 1:1
- ISO/BT40 5,1 Kg
- ISO/BT50 7,2 Kg
- Rpm 8.000
- Ø 16
- N 510
- M 12
- Nm 24
- ER25 Ø1/16

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	150		150		150	156	157		160	153		155
B	35		35		35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ HIGH SPEED
8.000 Rpm
Included !!

REFR. DAL PERNO COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

USCITA OUTPUT
Weldon max Ø16
optional

USCITA OUTPUT
Portafresa Toolholder 16
optional

INTERASSE SPECIALE SPECIAL PITCH
optional

REFR. DAL CONO COOLANT THROUGH SHANK
DRY RUNNING NOT POSSIBLE
Max 40 bar
optional

USCITA OUTPUT
HSK 32
optional

DOPPIA USCITA DOUBLE OUTPUT
ER25 - ER16M
optional

1

GTU-10

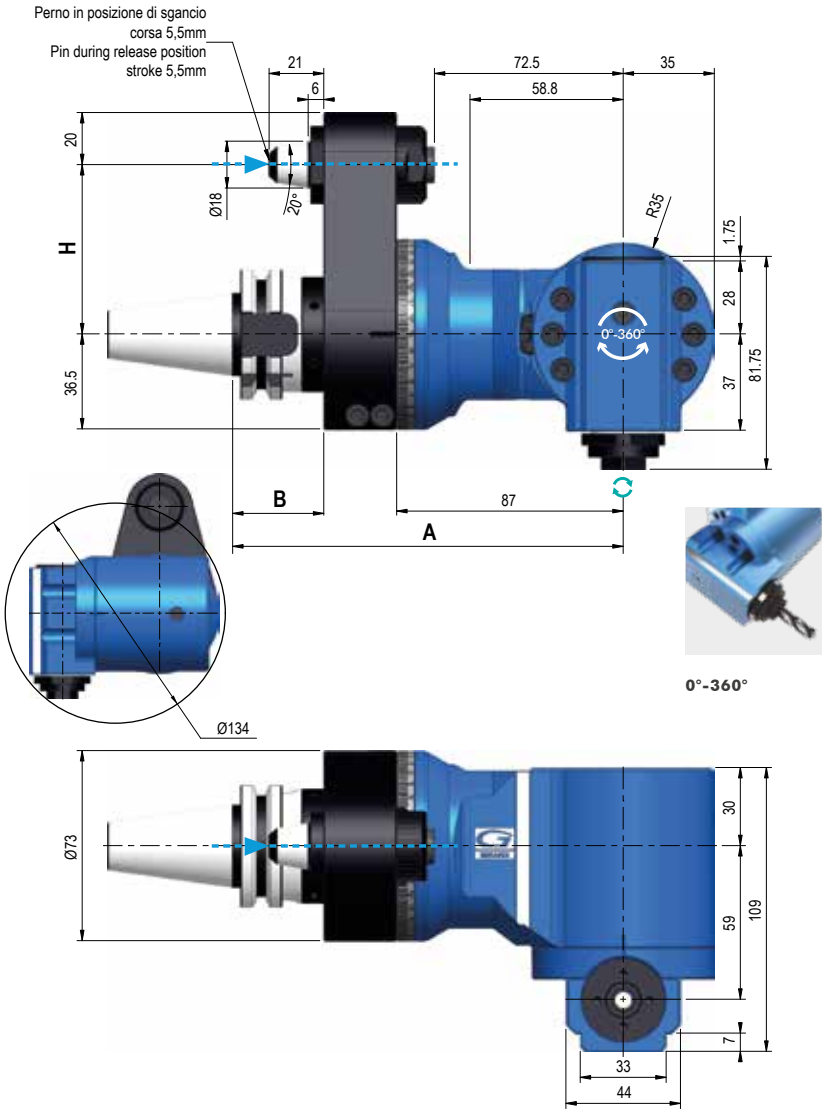
TYPE 0

Code: 9.GTU.10000

Price:

NEW





Dati tecnici - Technical data

- Ratio 1:1
- ISO/BT40 3,8 Kg
- Rpm 6.000
- Ø 10
- N 250
- M 8
- Nm 10
- ER16 Ø1/10

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80		80	65 /80	80	65 / 80		80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional			optional		optional			optional			optional		
A	150			150		145	150	156	157		10	173		175
B	35			35		30	35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
-

USCITA
OUTPUT
Weldon Max Ø10
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

SPINA POSIZIONE RAPIDA
QUICK POSITIONING PIN
Angolazioni personalizzate
Customized angles
optional

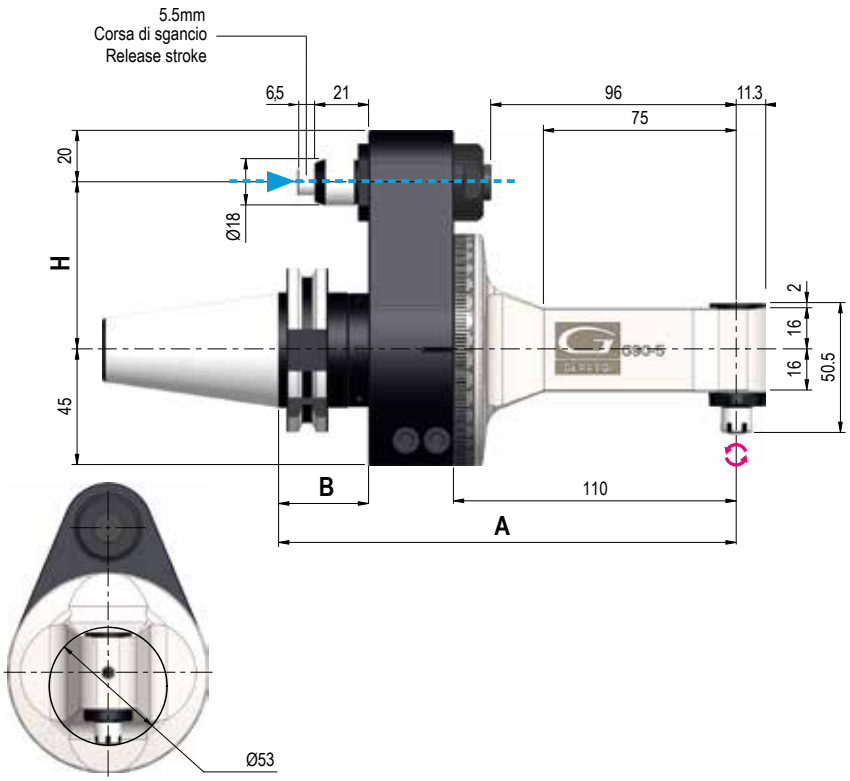
G90-5

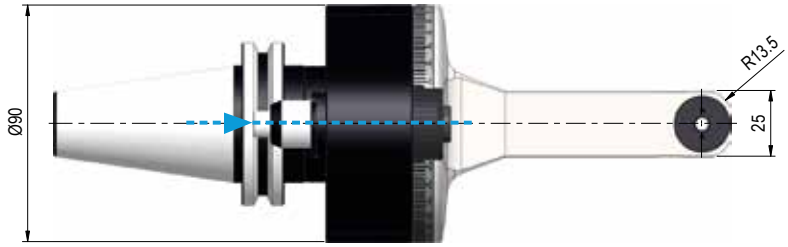
TYPE 1

Code: 9.G90.05000

Price:







Dati tecnici - Technical data

- Ratio 1:1
- *ISO/BT30* 4 Kg; *ISO/BT40* - Kg
- Rpm 10.000
- Ø 5
- N 60
- M 4
- Nm 4
- ER8 Ø0,5/5

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80		80	65 / 80	80	65 / 80		80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional			optional		optional			optional			optional		
A	178			178		173	178	184	185		188	181		183
B	35			35		30	35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED

10.000 Rpm

Included !!

USCITA
OUTPUT

Weldon Max Ø 6

optional

INTERASSE SPECIALE
SPECIAL PITCH

optional

1

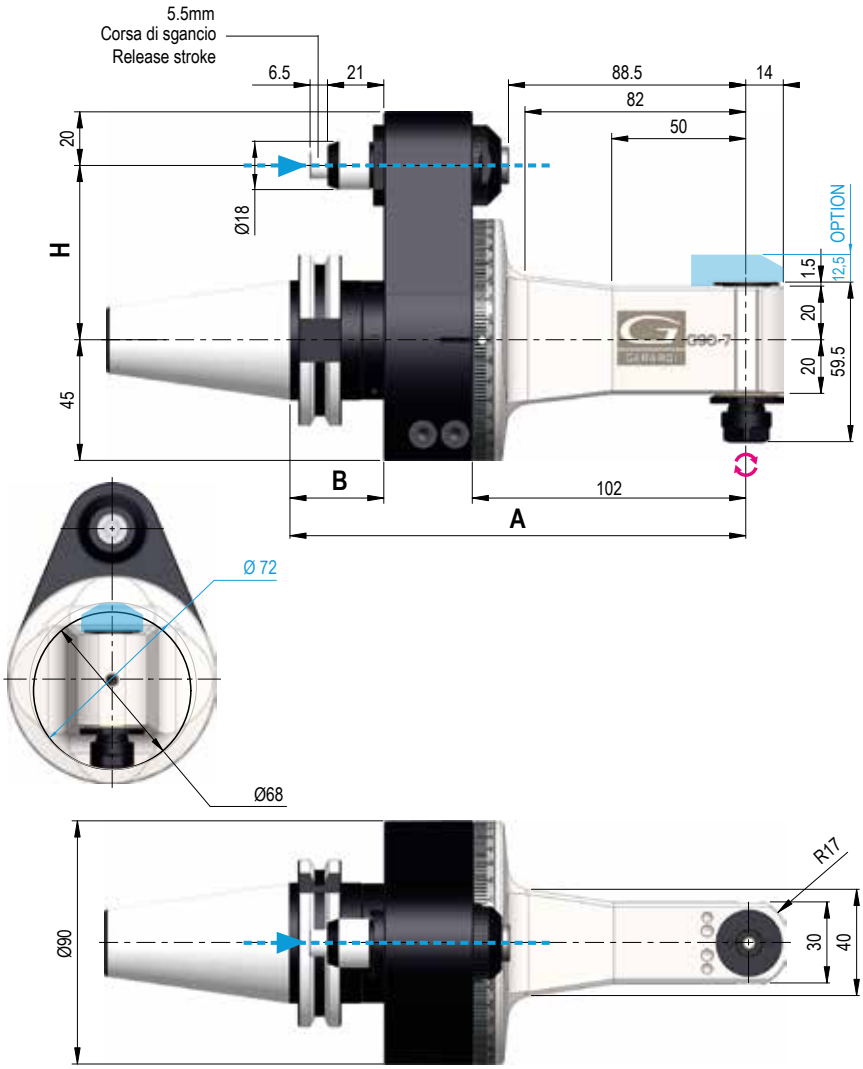
G90-7

TYPE 1

Code: 9.G90.07000

Price:





Dati tecnici - Technical data

- Ratio 1:1
- Kg 4
- Rpm 10.000
- Ø 7
- N 120
- M 6
- Nm 5
- ER11 Ø1/7

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80		80	65/80	80	65 / 80		80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional			optional		optional			optional			optional		
A	170			170		165	170	176	177		180	173		175
B	35			35		35	35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. 9 Kg



Opzioni - Options

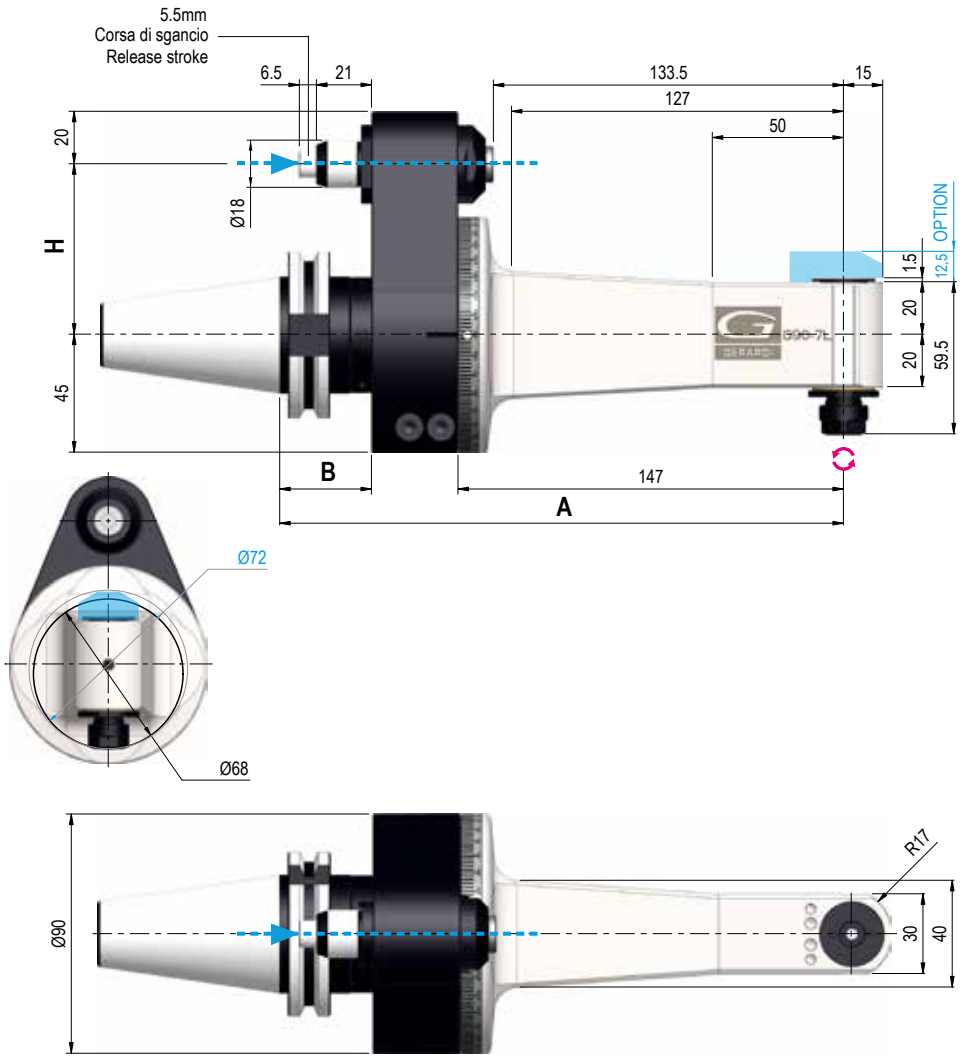
ALTA VELOCITÀ
HIGH SPEED
10.000 Rpm
Included !!

REFR. DAL PERNO
COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

DOPPIA USCITA
DOUBLE OUTPUT
ER 11 / ER 8M
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Weldon Max Ø 8
optional



G90-7L

TYPE 1

Code: 9.G90.07L00

Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 4,3
- Rpm 10.000
- Ø7
- N 120
- M6
- Nm 5
- ER11 Ø1/7

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80		80	65/80	80	65 / 80		80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional			optional		optional			optional			optional		
A	215			215		210	215	221	222		225	218		220
B	35			35		30	35	41	42		45	38		40

Dotazione Standard Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
10.000 Rpm
Included !!

REFR. DAL PERNO
COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

DOPPIA USCITA
DOUBLE OUTPUT
ER 11 / ER 8M
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Weldon Max Ø 8
optional

1

G90-10

TYPE 1

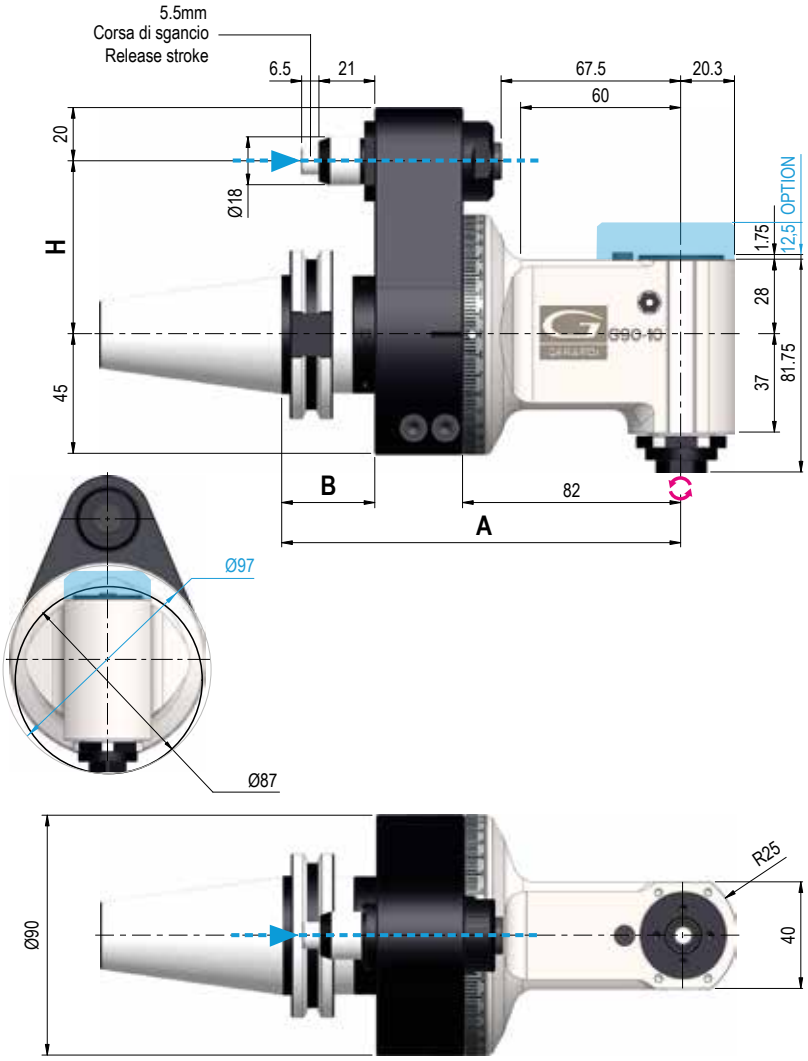
Code: 9.G90.10000

Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 4,3
- Rpm 10.000
- Ø 10
- N 250
- M 8
- Nm 10
- ER16 Ø1/10



SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80		80	65/80	80	65 / 80		80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional			optional		optional			optional			optional		
A	150			150		145	150	156	157		160	153		155
B	35			35		30	35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

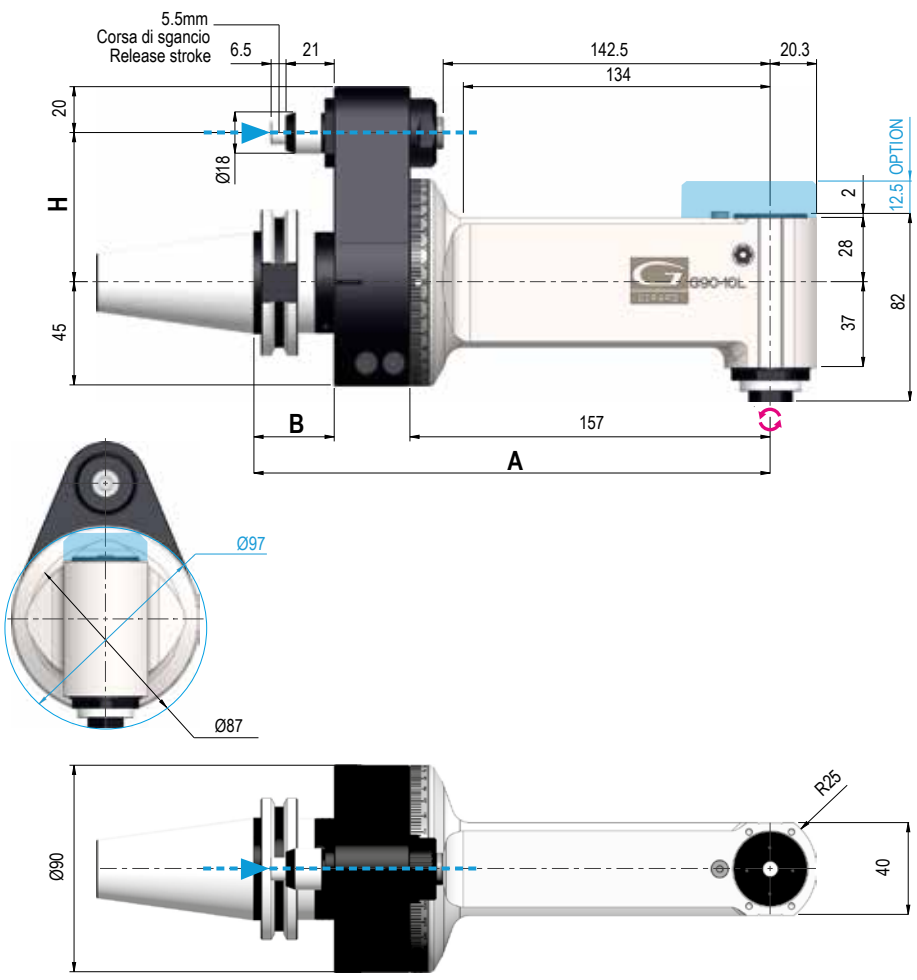
ALTA VELOCITÀ HIGH SPEED 10.000 Rpm *Included !!*	REFR. DAL PERNO COOLANT PIN THROUGH DRY RUNNING POSSIBLE Max 10 bar optional	USCITA OUTPUT Weldon Max Ø10 optional	DOPPIA USCITA DOUBLE OUTPUT ER16 - ER11 M optional
INTERASSE SPECIALE SPECIAL PITCH optional	REFR. DAL CONO COOLANT THROUGH SHANK DRY RUNNING NOT POSSIBLE Max 40 bar optional	USCITA OUTPUT Portafresa Toolholder Ø3 optional	

G90-10L

TYPE 1

Code: 9.G90.10L00

Price:





Dati tecnici - Technical data

- Ratio 1:1
- Kg 5,2
- Rpm 10.000
- Ø 10
- N 250
- M 8
- Nm 10
- ER16 Ø1/10

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80		80	65 / 80	80	65 / 80		80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional			optional		optional			optional			optional		
A	225			225		220	225	231	232		235	228		230
B	35			35		30	35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. 10,5 Kg

Opzioni - Options

ALTA VELOCITÀ HIGH SPEED
10.000 Rpm
Included !!

REFR. DAL PERNO COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

USCITA OUTPUT
Weldon Max Ø10
optional

DOPPIA USCITA DOUBLE OUTPUT
ER16 - ER11 M
optional

INTERASSE SPECALE SPECIAL PITCH
optional

REFR. DAL CONO COOLANT THROUGH SHANK
DRY RUNNING NOT POSSIBLE
Max 40 bar
optional

USCITA OUTPUT
Portafresa Toolholder Ø13
optional

1

G90-16

TYPE 1

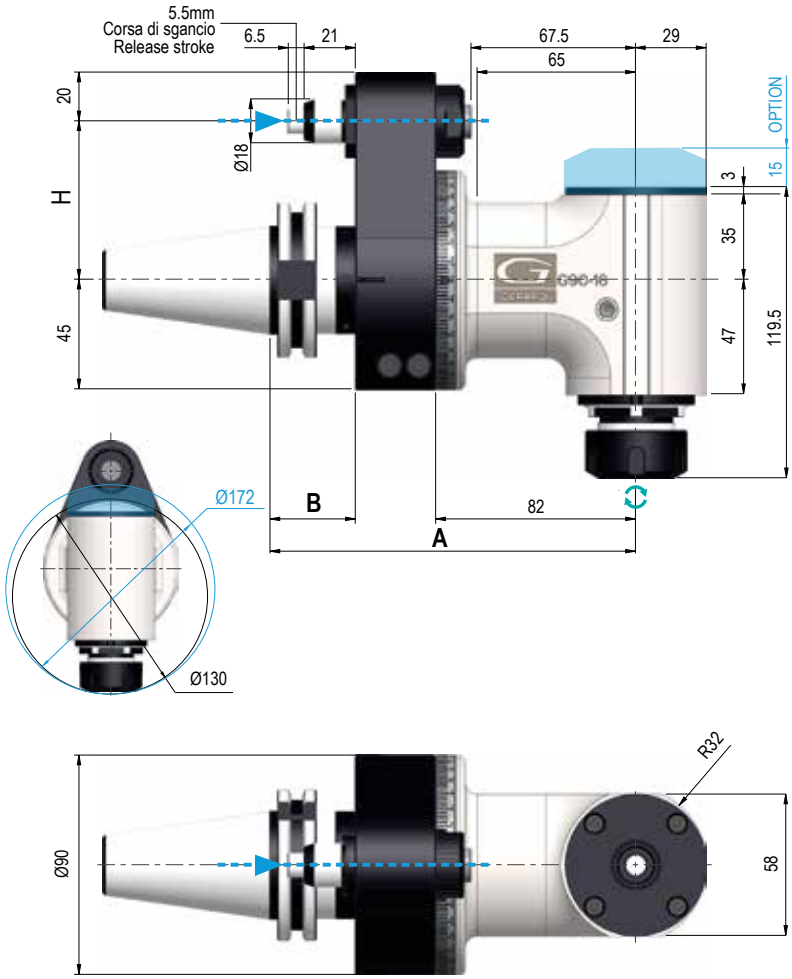
Code: 9.G90.16000

Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 5,4
- Rpm 8.000
- Ø 16
- N 510
- M 12
- Nm 24
- ER25 Ø1/16



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	150		150		150	156	157		160	153		155
B	35		35		35	41	42		45	38		40

Dotazione Standard Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. 11 Kg

Opzioni - Options

ALTA VELOCITÀ HIGH SPEED
8.000 Rpm
Included !!

REFR. DAL PERNO COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

USCITA OUTPUT
Weldon Max Ø16
optional

USCITA OUTPUT
Portafresa Toolholder Ø16
optional

INTERASSE SPECIALE SPECIAL PITCH
optional

REFR. DAL CONO COOLANT THROUGH SHANK
DRY RUNNING NOT POSSIBLE
Max 40 bar
optional

USCITA OUTPUT
HSK 32
optional

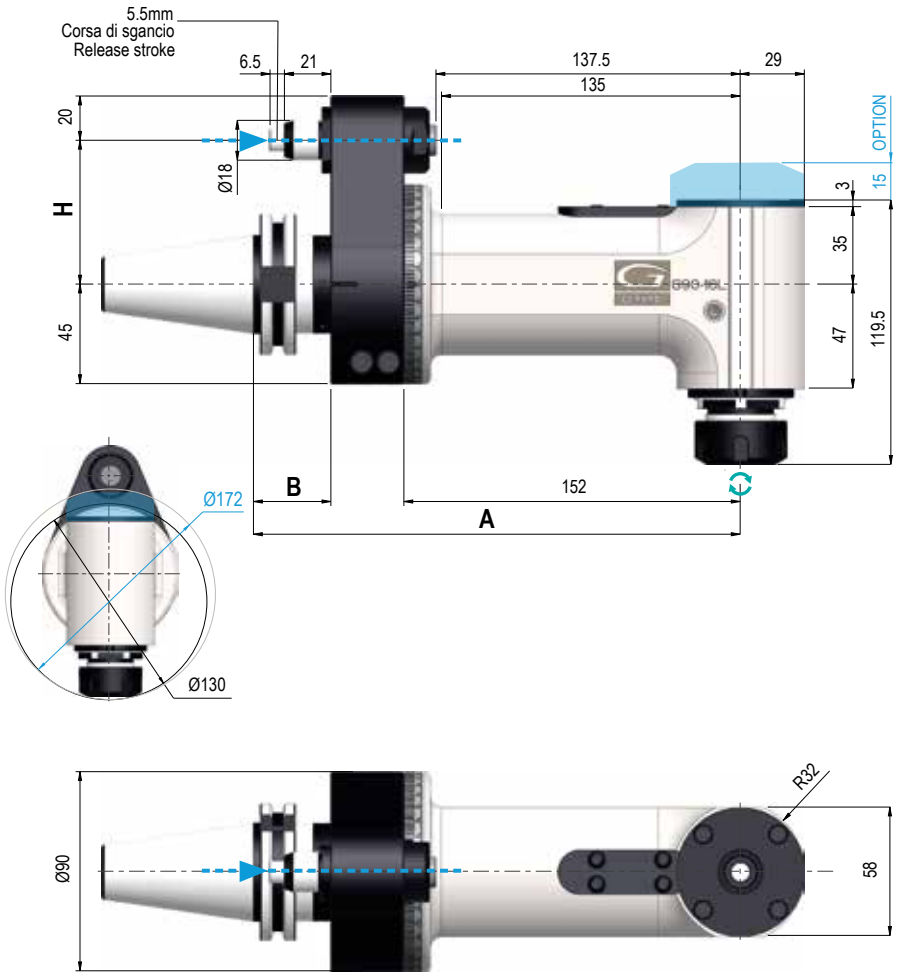
DOPPIA USCITA DOUBLE OUTPUT
ER25 - ER16M
optional

G90-16L

TYPE 1

Code: 9.G90.16L00

Price:





Dati tecnici - Technical data

- Ratio 1:1
- Kg 6,7
- Rpm 8.000
- Ø 16
- N 510
- M 12
- Nm 24
- ER25 Ø1/16

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	220		220		220	226	227		230	223		225
B	35		35		35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
Included !!

REFR. DAL PERNO
COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

USCITA
OUTPUT
Weldon Max Ø16
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø16
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

REFR. DAL CONO
COOLANT
THROUGH SHANK
DRY RUNNING NOT POSSIBLE
Max 40 bar
optional

USCITA
OUTPUT
HSK 32
optional

DOPPIA USCITA
DOUBLE OUTPUT
ER25 - ER16M
optional

1

G90-20

TYPE 2

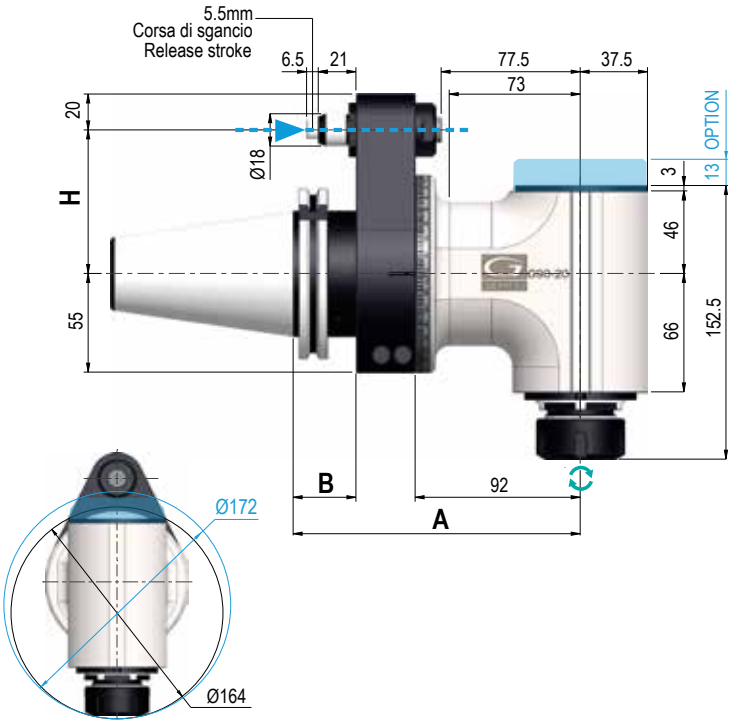
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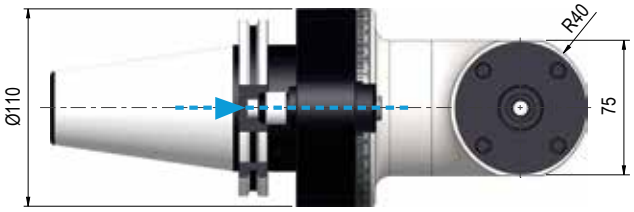
Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 11
- Rpm 4.000
- Ø 20
- N 1.250
- M 16
- Nm 40
- ER32 Ø2/20





SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893			C. ISO 26623	
Grandezza - Size	50	50	50	63	80	100	C6	C8
Prezzo EXTRA Price €	std	std	std	opt.	opt.	opt.	optional	
H Standard	80	80	80	80			80	
H Optional 110 *EXTRA Price* €	optional	optional	optional	optional			optional	
A	160	160	166	167		170	163	165
B	35	35	41	42		45	38	40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

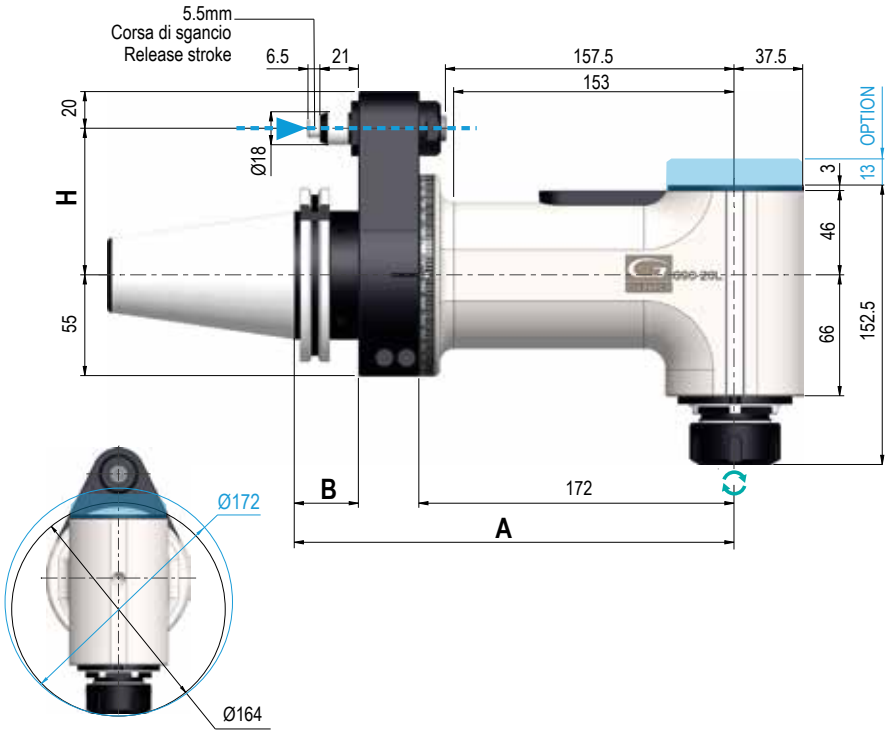
- ALTA VELOCITÀ HIGH SPEED — 6.000 Rpm — optional
- REFR. DAL PERNO COOLANT PIN THROUGH — DRY RUNNING POSSIBLE — Max 10 bar — optional
- USCITA OUTPUT — Weldon Max Ø20 — optional
- USCITA OUTPUT — Portafresa Toolholder Ø22 — optional
- USCITA OUTPUT — C4 — optional
- INTERASSE SPECIALE SPECIAL PITCH — G90-20/20L — optional
- REFR. DAL CONO COOLANT THROUGH SHANK — DRY RUNNING NOT POSSIBLE — 40 bar opt. / 70 bar opt.
- USCITA OUTPUT — HSK 40 — optional
- USCITA OUTPUT — ISO/CAT/ BT 30 — optional
- DOPPIA USCITA DOUBLE OUTPUT — ER32 - ER20M — optional

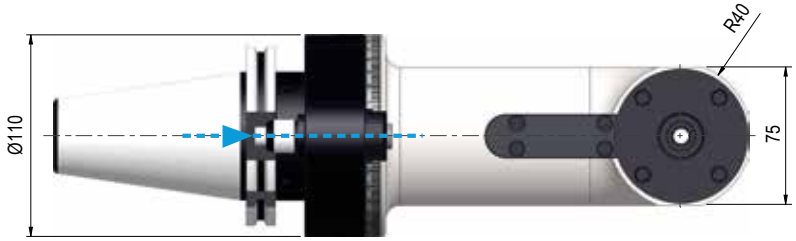
G90-20L

TYPE 2

Code: 9.G90.20L00

Price:







Dati tecnici - Technical data

- Ratio 1:1
- Kg 13,8
- Rpm 4.000
- Ø 20
- N 1.250
- M 16
- Nm 40
- ER32 Ø2/20

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893			C. ISO 26623	
Grandezza - Size	50	50	50	63	80	100	C6	C8
Prezzo EXTRA Price €	std	std	std	opt.	opt.	opt.	optional	
H Standard	80	80	80	80			80	
H Optional 110 *EXTRA Price* €	optional	optional	optional	optional			optional	
A	240	240	246	247		250	243	245
B	35	35	41	42		45	38	40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ HIGH SPEED 6.000 Rpm optional	REFR. DAL PERNO COOLANT PIN THROUGH DRY RUNNING POSSIBLE Max 10 bar optional	USCITA OUTPUT Weldon Max Ø20 optional	USCITA OUTPUT Portafresa Toolholder Ø22 optional	USCITA OUTPUT C4 optional
USCITA OUTPUT G90-20/20L ER40 optional	REFR. DAL CONO COOLANT THROUGH SHANK DRY RUNNING NOT POSSIBLE 40 bar opt. 70 bar opt.	USCITA OUTPUT HSK 40 optional	USCITA OUTPUT ISO/CAT/ BT 30 optional	DOPPIA USCITA DOUBLE OUTPUT ER32 - ER20M optional

1

G90-20L/272 TYPE 2

Code: 9.G90.20L00.272

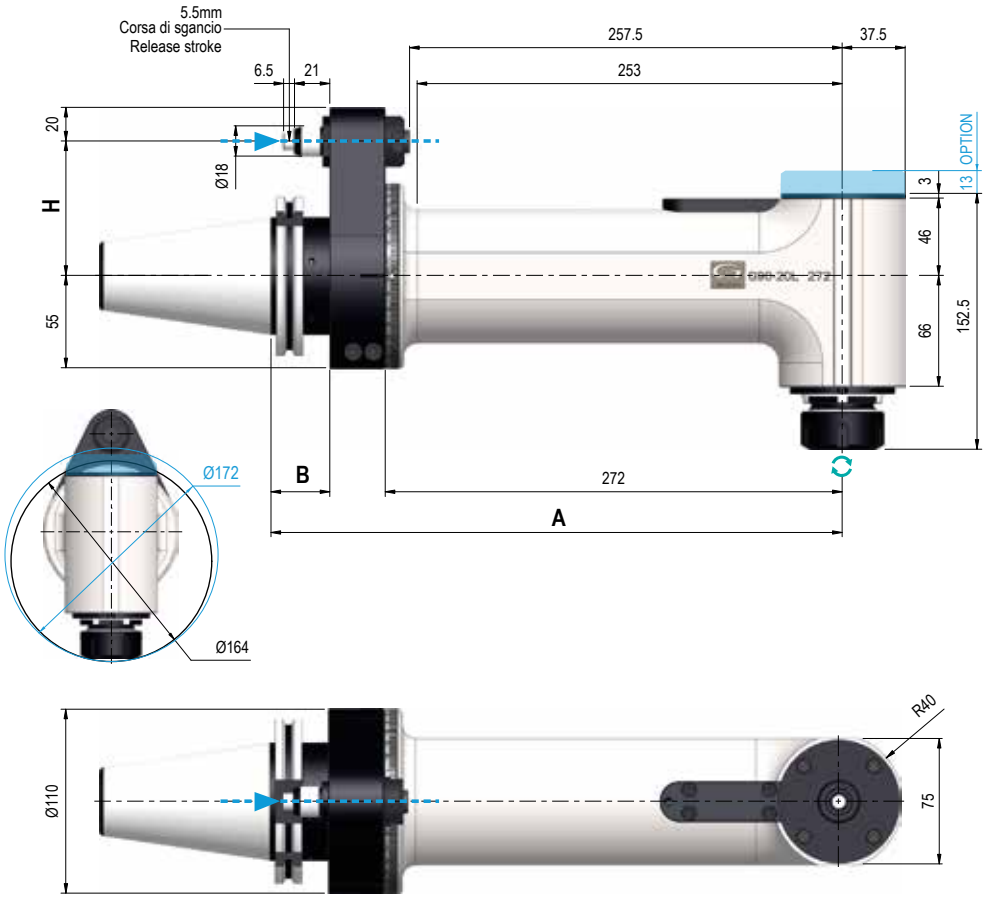
Price:

NEW



Dati tecnici - Technical data

- Ratio 1:1
- Kg 17
- Rpm 4.000
- Ø 20
- N 1.250
- M 16
- Nm 40
- ER32 Ø2/20



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623	
Grandezza - Size	50	50	50	80	100	C6	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional	
H Standard	80	80	80	80		80	
H Optional 110 *EXTRA Price* €	optional	optional	optional	optional		optional	
A	340	340	346	347	350	343	345
B	35	35	41	42	45	38	40

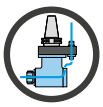
Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

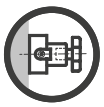


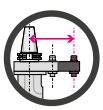
Opzioni - Options

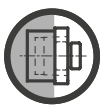

REFR. DAL PERNO
COOLANT PIN THROUGH
DRY RUNNING POSSIBLE
Max 10 bar
optional

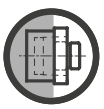

USCITA OUTPUT
C4
optional

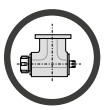

USCITA OUTPUT
Weldon Max Ø20
optional


USCITA OUTPUT
Portafresa Toolholder Ø22
optional


INTERASSE SPECIALE
SPECIAL PITCH
optional


USCITA OUTPUT
HSK 40
optional


USCITA OUTPUT
ISO/CAT/ BT 30
optional

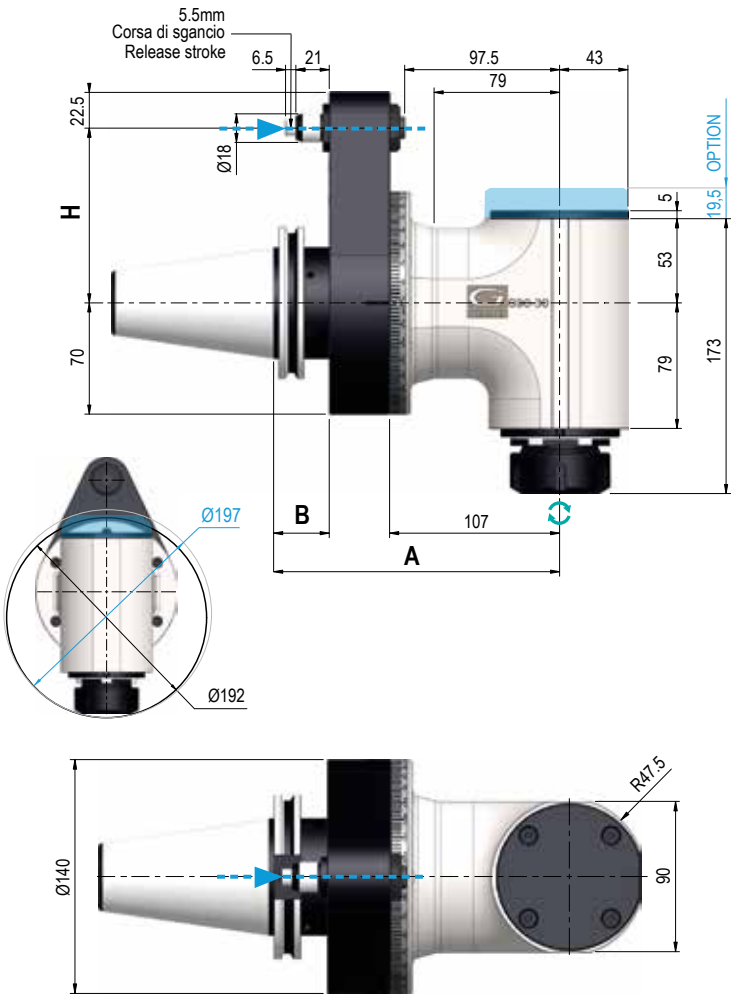

DOPPIA USCITA
DOUBLE OUTPUT
ER32 - ER20M
optional

G90-30

TYPE 3

Code: 9.G90.30000

Price:





Dati tecnici - Technical data

- Ratio 1:1
- Kg 17
- Rpm 4.000
- Ø 30
- N 1.750
- M 20
- Nm 75
- ER40 Ø3/30

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional
H Standard	110	110	110	110		110
A	180	180	186	187	190	185
B	35	35	41	42	45	40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

- ALTA VELOCITÀ HIGH SPEED — 6.000 Rpm — optional
- REFR. DAL PERNO COOLANT PIN THROUGH — DRY RUNNING POSSIBLE — Max 10 bar — optional
- USCITA OUTPUT — Weldon Max Ø25 — optional
- USCITA OUTPUT — Portafresa Toolholder Ø27 — optional
- USCITA OUTPUT — ISO 30 — optional
- INTERASSE SPECIALE SPECIAL PITCH — optional
- REFR. DAL CONO COOLANT THROUGH SHANK — DRY RUNNING NOT POSSIBLE — 30 bar opt. / 70 bar opt.
- USCITA OUTPUT — HSK 40 — optional
- DOPPIA USCITA DOUBLE OUTPUT — ER40 - ER25M — optional
- USCITA OUTPUT — C4 — optional

1

G90-30L

TYPE 3

Code: 9.G90.30L00

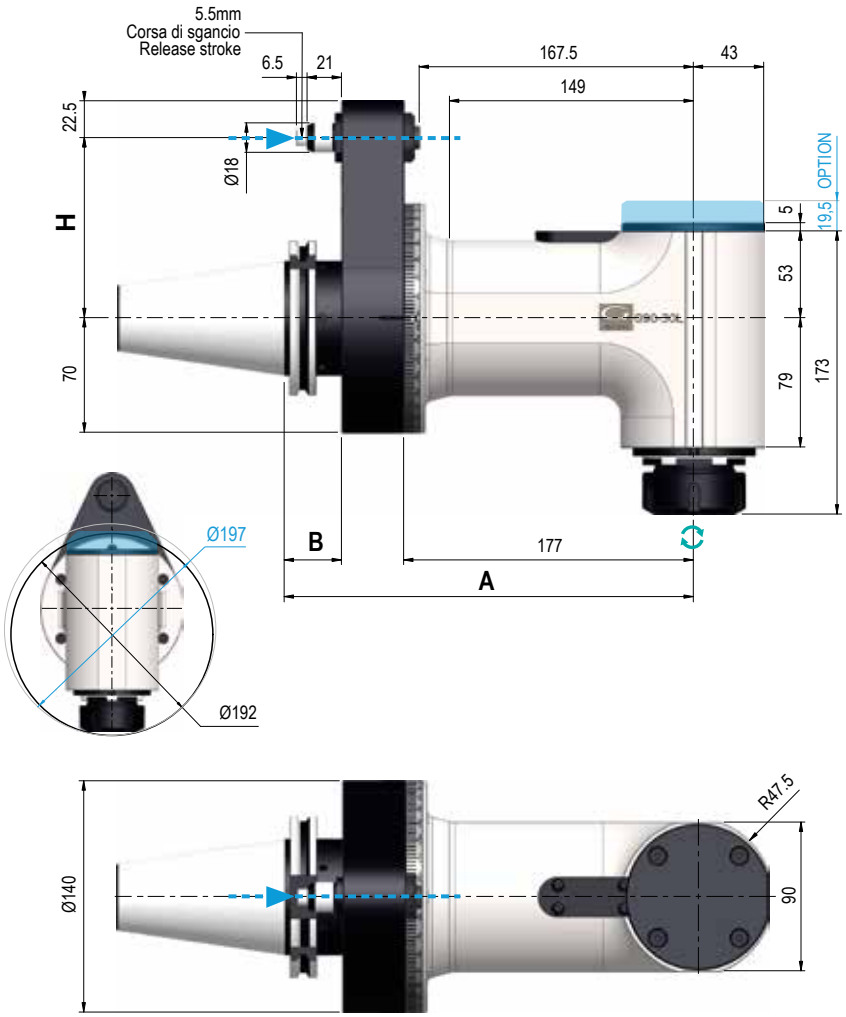
Price:

NEW



Dati tecnici - Technical data

- Ratio 1:1
- Kg 20
- Rpm 4.000
- Ø 30
- N 1.750
- M 20
- Nm 75
- ER40 Ø3/30



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional
H Standard Ø18	110	110	110	110		110
A	250	250	256	257	260	255
B	35	35	41	42	45	40

Dotazione Standard
Standard Equipment

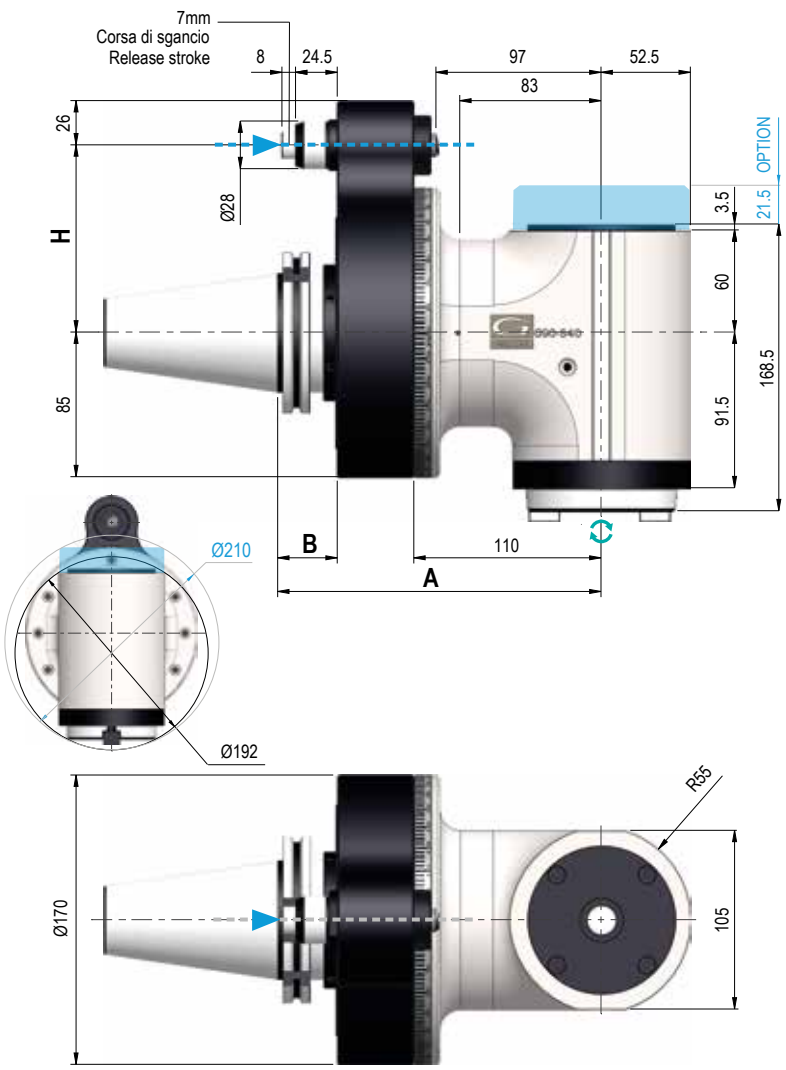
Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

- ALTA VELOCITÀ HIGH SPEED — 6.000 Rpm — optional
- REFR. DAL PERNO COOLANT PIN THROUGH — DRY RUNNING POSSIBLE — Max 10 bar — optional
- USCITA OUTPUT — Weldon Max Ø25 — optional
- USCITA OUTPUT — Portafresa Toolholder Ø27 — optional
- USCITA OUTPUT — ISO 30 — optional
- INTERASSE SPECIALE SPECIAL PITCH — optional
- REFR. DAL CONO COOLANT THROUGH SHANK — DRY RUNNING NOT POSSIBLE — 30 bar opt. / 70 bar opt.
- USCITA OUTPUT — HSK 40 — optional
- DOPPIA USCITA DOUBLE OUTPUT — ER40 - ER25M — optional
- USCITA OUTPUT — C4 — optional



G90-S40

TYPE 4

Code: 9.G90.S4000

Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 22
- Rpm 4.000
- Ø 26
- N 1.800
- M 20
- Nm 140
- ISO 40 / CAT / BT40

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional
H Standard Ø28	110	110	110	110		110
A	190	190	196	197	200	195
B	35	35	41	42	45	40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

- ALTA VELOCITÀ HIGH SPEED — 5.000 Rpm — optional
- REFR. DAL PERNO COOLANT PIN THROUGH — DRY RUNNING POSSIBLE — Max 10 bar — optional
- USCITA OUTPUT — Weldon Max Ø26 — optional
- USCITA OUTPUT — Portafresa Toolholder Ø32 — optional
- INTERASSE SPECIALE SPECIAL PITCH — optional
- REFR. DAL CONO COOLANT THROUGH SHANK — DRY RUNNING NOT POSSIBLE — 30 bar opt. / 70 bar opt.
- USCITA OUTPUT — HSK 63 — optional
- USCITA OUTPUT — C4 opt. / C5 opt.

1

G90-S40L

TYPE 4

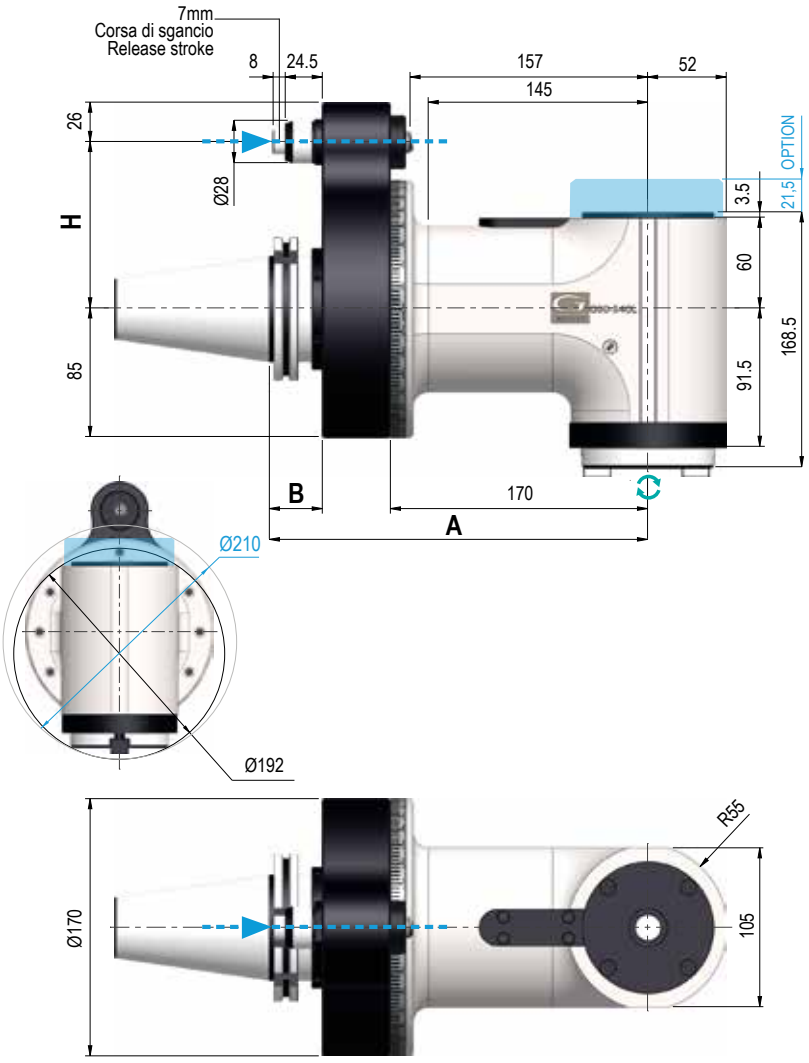
Code: 9.G90.S40L00

Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 26,2
- Rpm 4.000
- Ø 26
- N 1.800
- M 20
- Nm 140
- ISO 40 / CAT / BT40



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional
H Standard Ø28	110	110	110	110		110
A	190	190	196	197	200	195
B	35	35	41	42	45	40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



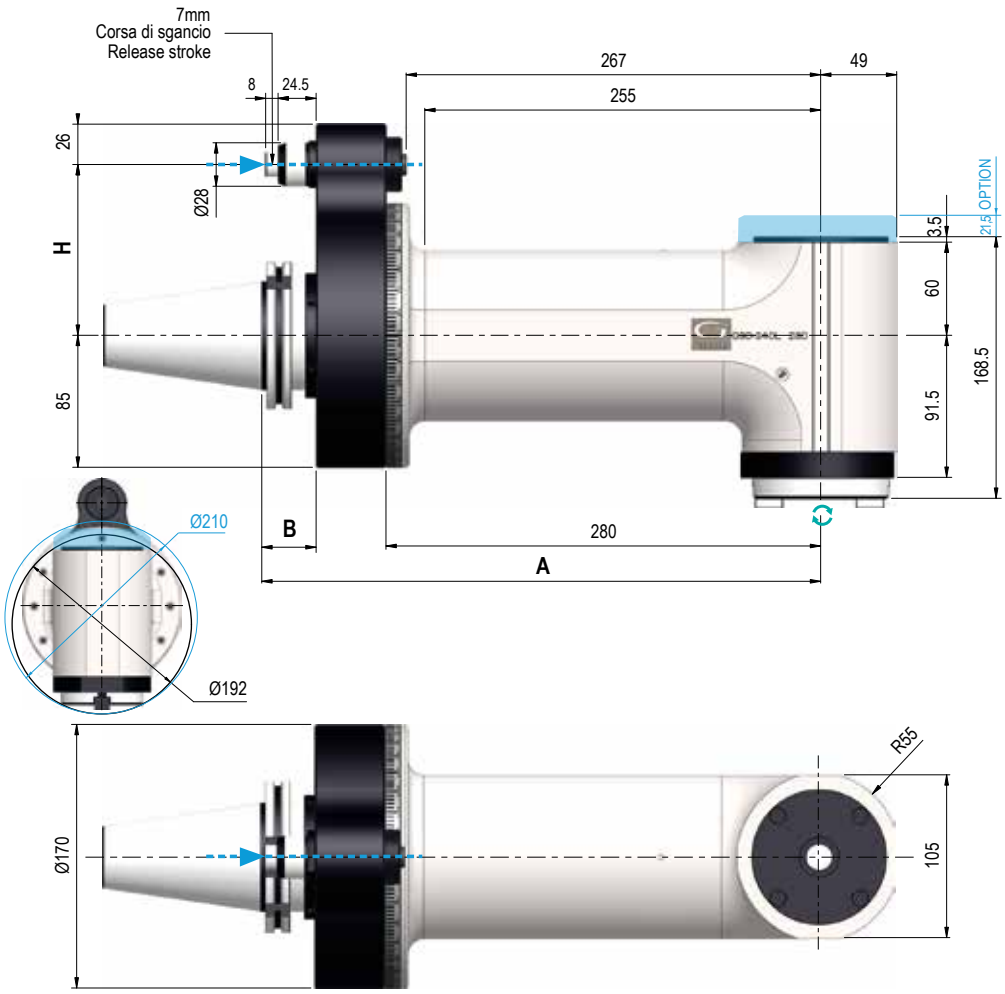
Opzioni - Options

- ALTA VELOCITÀ HIGH SPEED — 5.000 Rpm — optional
- REFR. DAL PERNO COOLANT PIN THROUGH — DRY RUNNING POSSIBLE — Max 10 bar — optional
- USCITA OUTPUT — Weldon Max Ø26 — optional
- USCITA OUTPUT — Portafresa Toolholder Ø32 — optional
- INTERASSE SPECIALE SPECIAL PITCH — optional
- REFR. DAL CONO COOLANT THROUGH SHANK — DRY RUNNING NOT POSSIBLE — 30 bar opt. / 70 bar opt.
- USCITA OUTPUT — HSK 63 — optional
- USCITA OUTPUT — C4 € 480 / C5 € 590

G90-S40L/280 TYPE 4

Code: 9.G90.S40L0.280

Price:



NEW



Dati tecnici - Technical data

- Ratio 1:1
- Kg 32,4
- Rpm 4.000
- Ø 26
- N 1.800
- M 20
- Nm 140
- ISO/BT/ CAT 40

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893	C. ISO 26623
Grandezza - Size	50	50	50	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard Ø28	110	110	110	110	110
A	360	360	366	370	365
B	35	35	41	45	40

Dotazione Standard Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ HIGH SPEED 5.000 Rpm optional	REFR. DAL PERNO COOLANT PIN THROUGH DRY RUNNING POSSIBLE Max 10 bar optional	USCITA OUTPUT Weldon Max Ø26 optional	USCITA OUTPUT Portafresa Toolholder Ø32 optional
INTERASSE SPECIALE SPECIAL PITCH optional	REFR. DAL CONO COOLANT THROUGH SHANK DRY RUNNING NOT POSSIBLE 30 bar opt. / 70 bar opt.	USCITA OUTPUT HSK 63 optional	USCITA OUTPUT C4 opt. / C5 opt.

1

GMU-13

TYPE 0

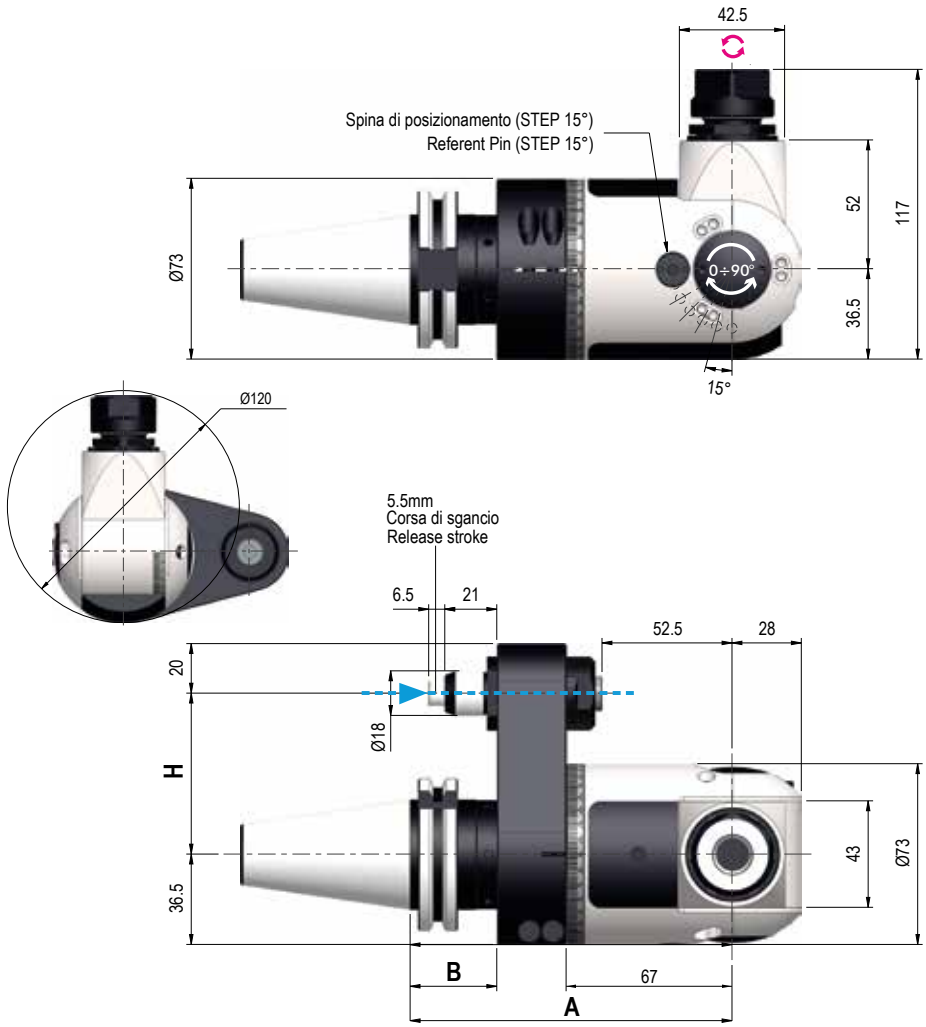
Code: 9.GMU.13000

Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 4,20
- Rpm 4.000
- Ø 13
- N 450
- M 10
- Nm 6
- ER-20 Ø1/13



SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	130		130		130	136	137		140	133		135
B	35		35		35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø 16
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

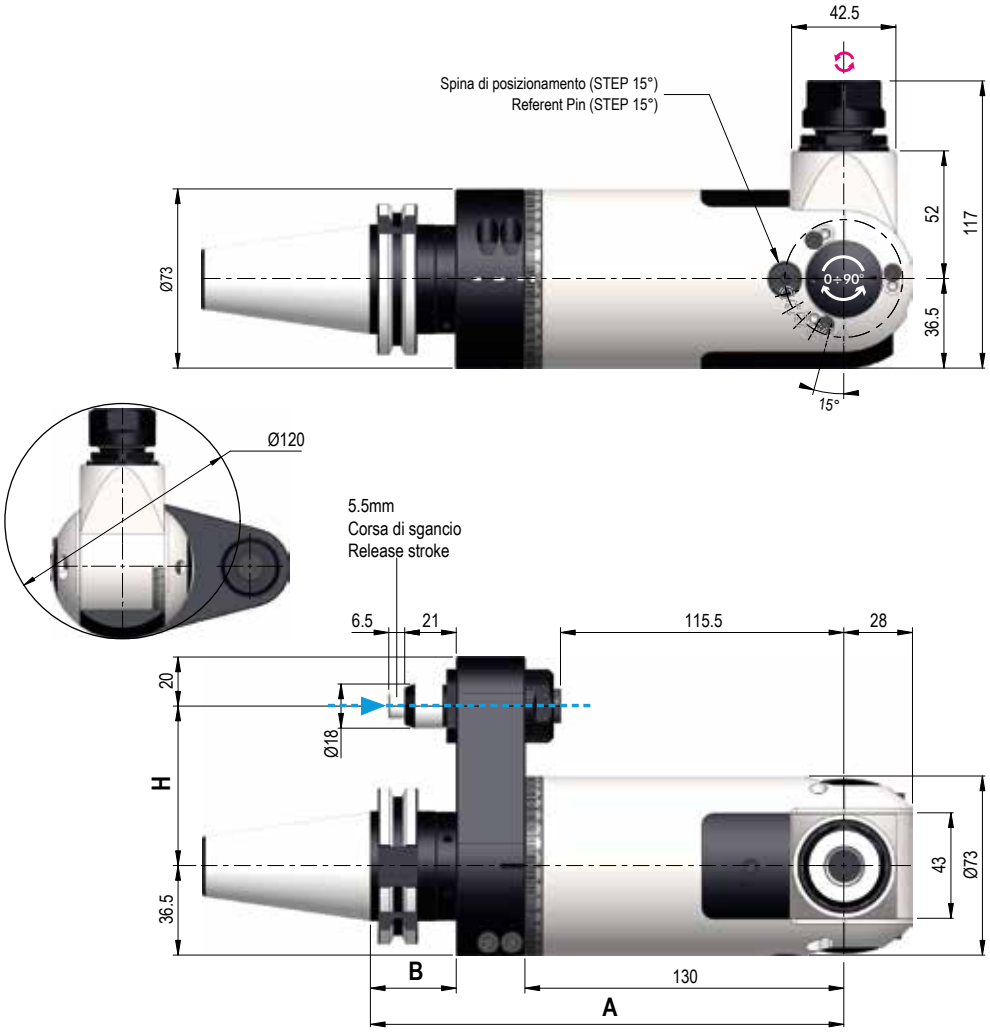
SPINA POSIZIONE RAPIDA
QUICK POSITIONING PIN
Angolazioni personalizzate
Customized angles
optional

GMU-13L

TYPE 0

Code: 9.GMU.13L00

Price:





Dati tecnici - Technical data

Ratio 1:1	Kg 6,3
Rpm 4.000	Ø 13
N 450	M 10
Nm 6	ER-20 Ø1/13

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza -Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std		std		std		opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price €*	optional		optional		optional		optional			optional		
A	193		193		188	193	199	200	203	196		198
B	35		35		30	35	41	42	45	38		40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø20
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

SPINA POSIZIONE RAPIDA
QUICK POSITIONING PIN
Angolazioni personalizzate
Customized angles
optional

1

GMU-16

TYPE 1

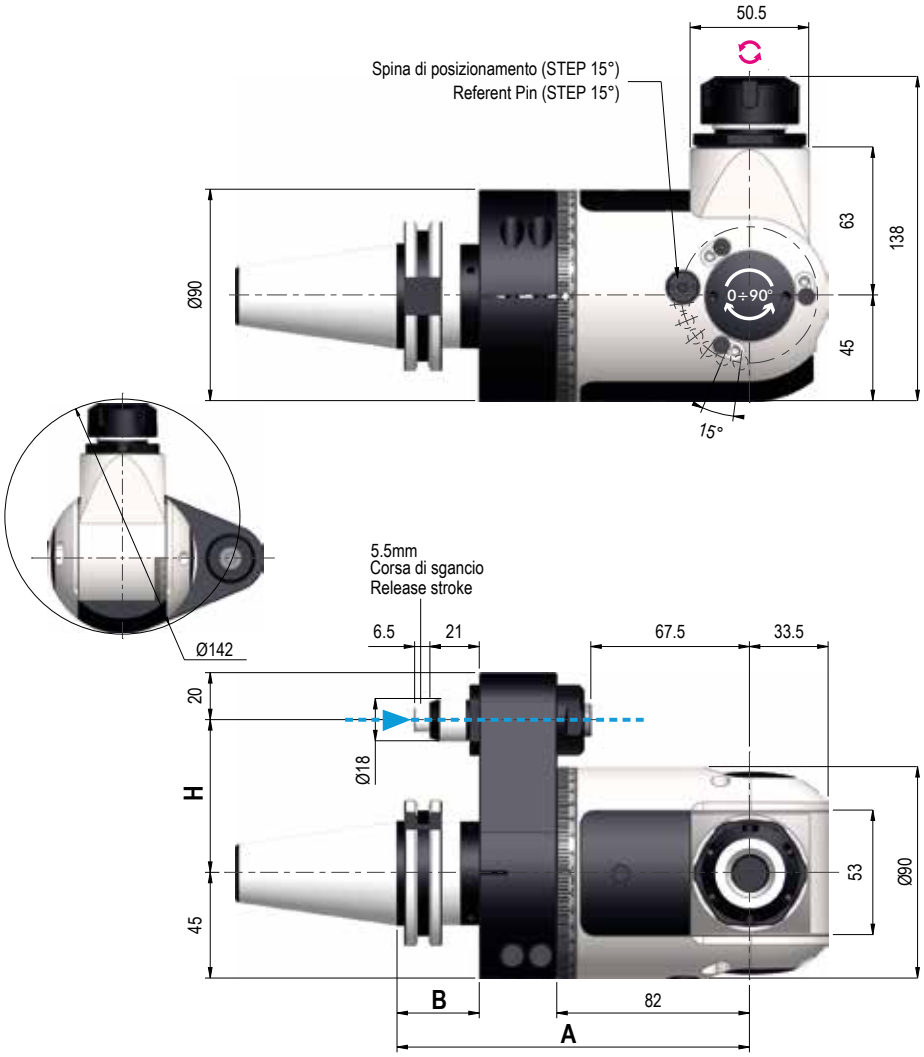
Code: 9.GMU.16000

Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 6,8
- Rpm 4.000
- Ø 16
- N 480
- M 12
- Nm 18
- ER-25 Ø1/16



SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	150		150		150	156	157		160	153		155
B	35		35		35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max.12,5 Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø 16
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

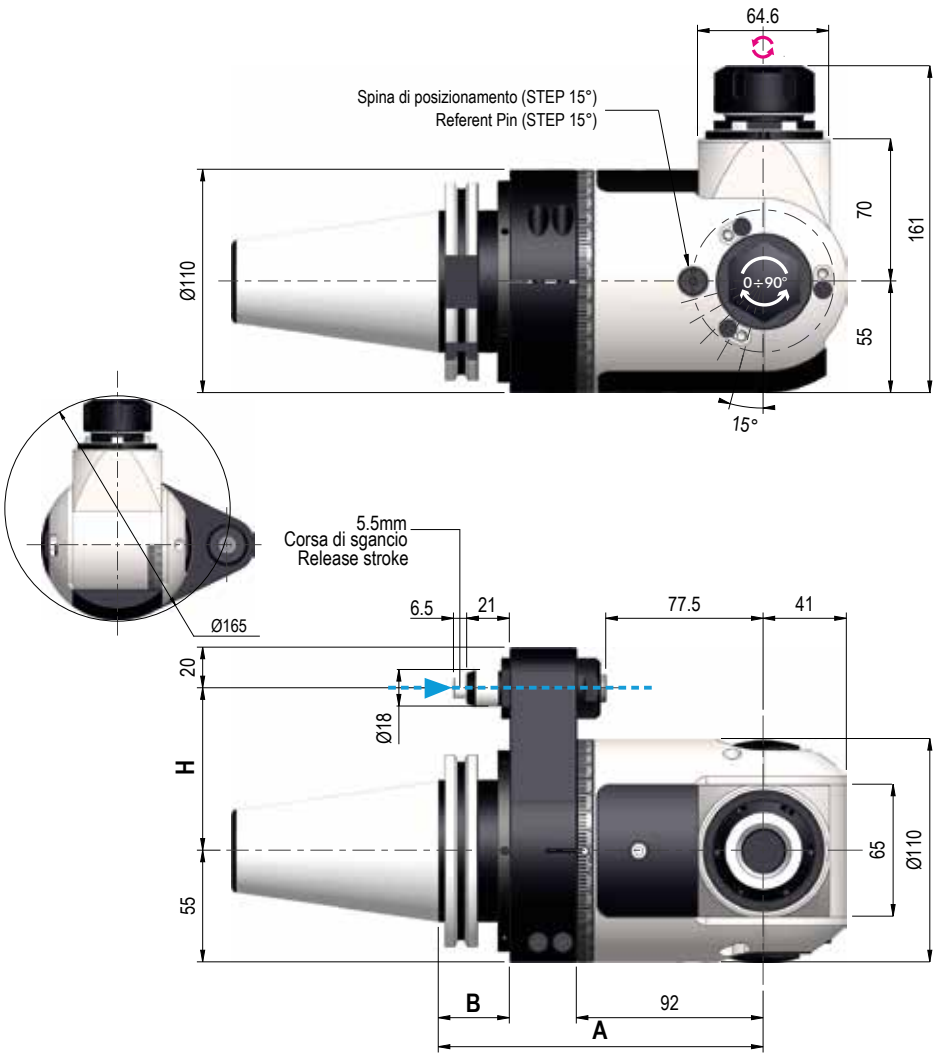
SPINA POSIZIONE RAPIDA
QUICK POSITIONING PIN
Angolazioni personalizzate
Customized angles
optional

GMU-20

TYPE 2

Code: 9.GMU.20000

Price:





Dati tecnici - Technical data

- Ratio 1:1
- Kg 13
- Rpm 4.000
- Ø 20
- N 715
- M 16
- Nm 32
- ER-32 Ø2/20

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623	
Grandezza - Size	50	50	50	80	100	C6	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional	
H Standard	80	80	80	80		80	
H Optional 110 *EXTRA Price* €	optional	optional	optional	optional		optional	
A	160	160	166	167	170	163	165
B	35	35	41	42	45	38	40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø20
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

SPINA POSIZIONE RAPIDA
QUICK POSITIONING PIN
Angolazioni personalizzate
Customized angles
optional

1

G90-16-2U

TYPE 1

Code: 9.G90.162U0

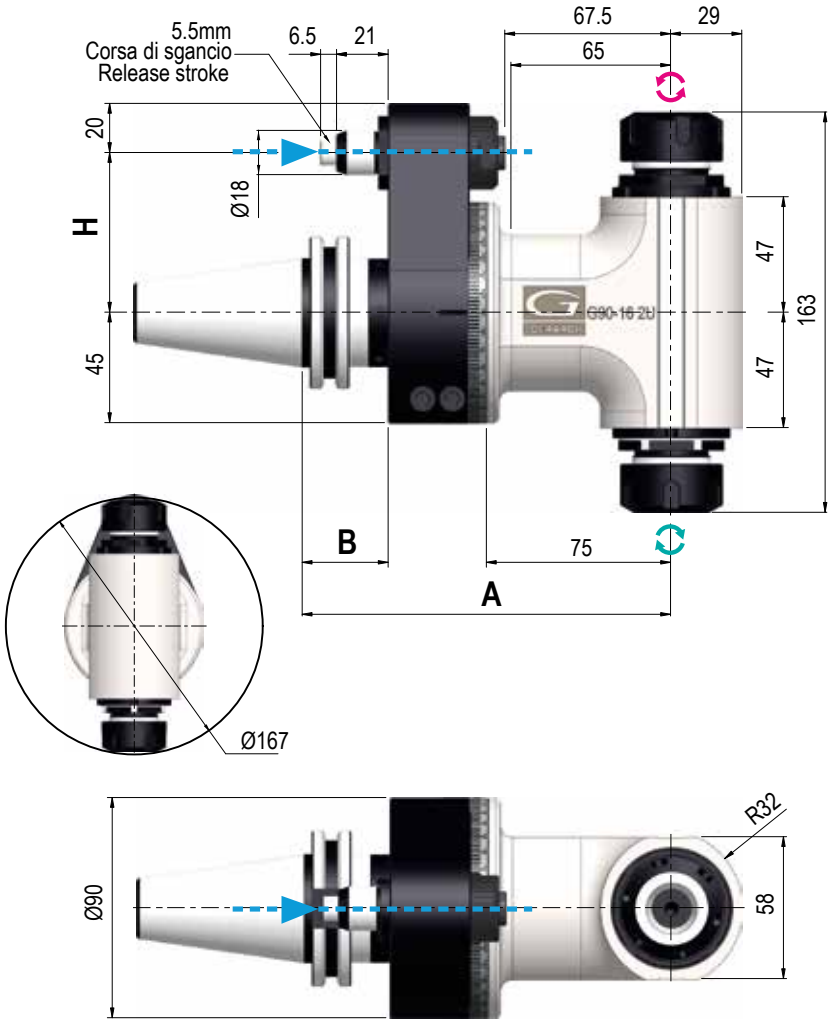
Price:

NEW



Dati tecnici - Technical data

- Ratio 1:1
- Kg 6,4
- Rpm 4.000
- Ø 16
- N 510
- M 12
- Nm 24
- ER-25 Ø1/16



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	150		150		150	156	157		160	153		155
B	35		35		35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø16 (X2)
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

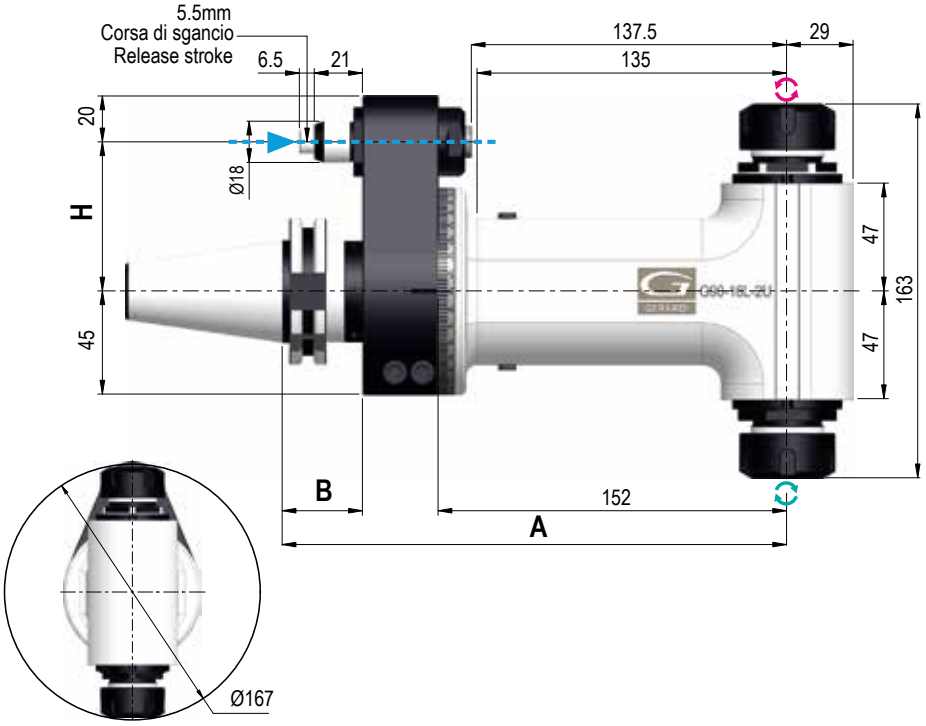
USCITA
OUTPUT
Portafresa
Toolholder Ø16 (X2)
optional

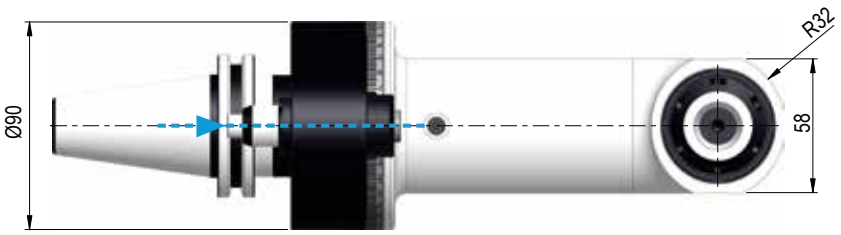
G90-16L-2U

TYPE 1

Code: 9.G90.16L2U0

Price:





NEW



Dati tecnici - Technical data

- Ratio 1:1
- Kg 13
- Rpm 4.000
- Ø 16
- N 510
- M 12
- Nm 24
- ER-25 Ø1/16

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	220		220		220	226	227		230	223		225
B	35		35		35	41	42		45	39		40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø16 (X2)
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø16 (X2)
optional

1

G90-20-2U

TYPE 2

Code: 9.G90.202U0

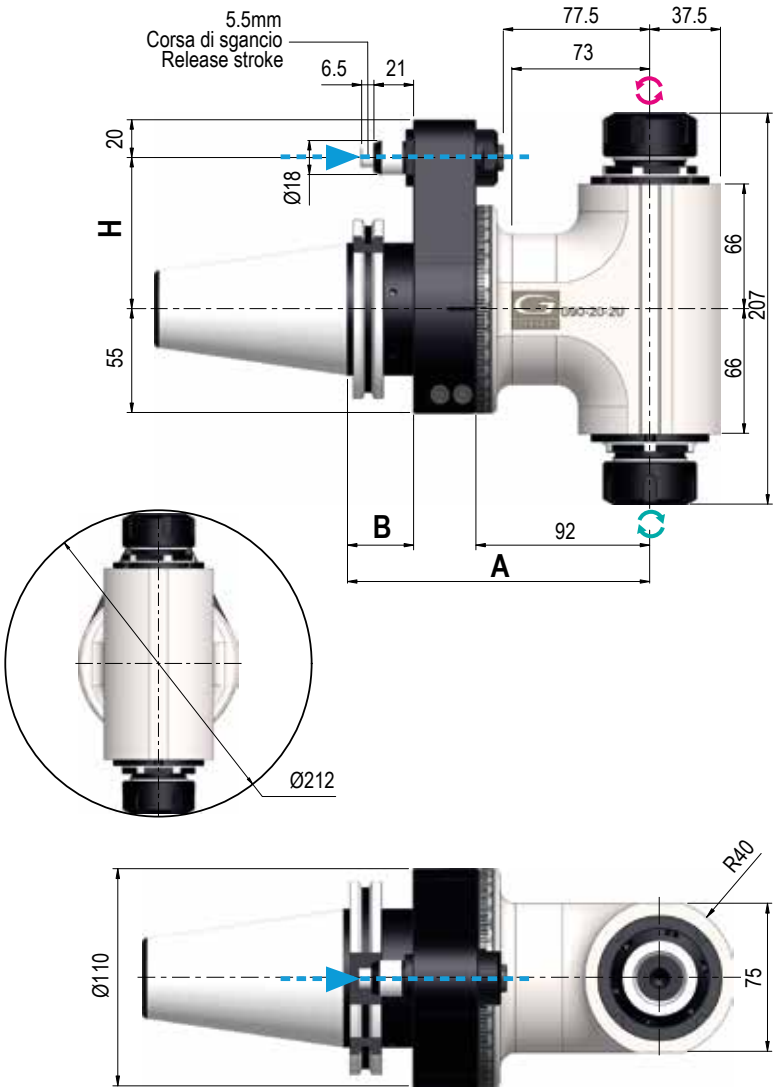
Price:

NEW



Dati tecnici - Technical data

- Ratio 1:1
- Kg 11,7
- Rpm 4.000
- Ø 20
- N 1250
- M 16
- Nm 40
- ER-32 Ø2/20



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893			C. ISO 26623	
Grandezza - Size	50	50	50	63	80	100	C6	C8
Prezzo EXTRA Price €	std	std	std	std	optional	optional	optional	
H Standard	80	80	80	80			80	
H Optional 110 *EXTRA Price* €	optional	optional	optional	optional			optional	
A	160	160	166	167		170	163	165
B	35	35	41	42		45	38	40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

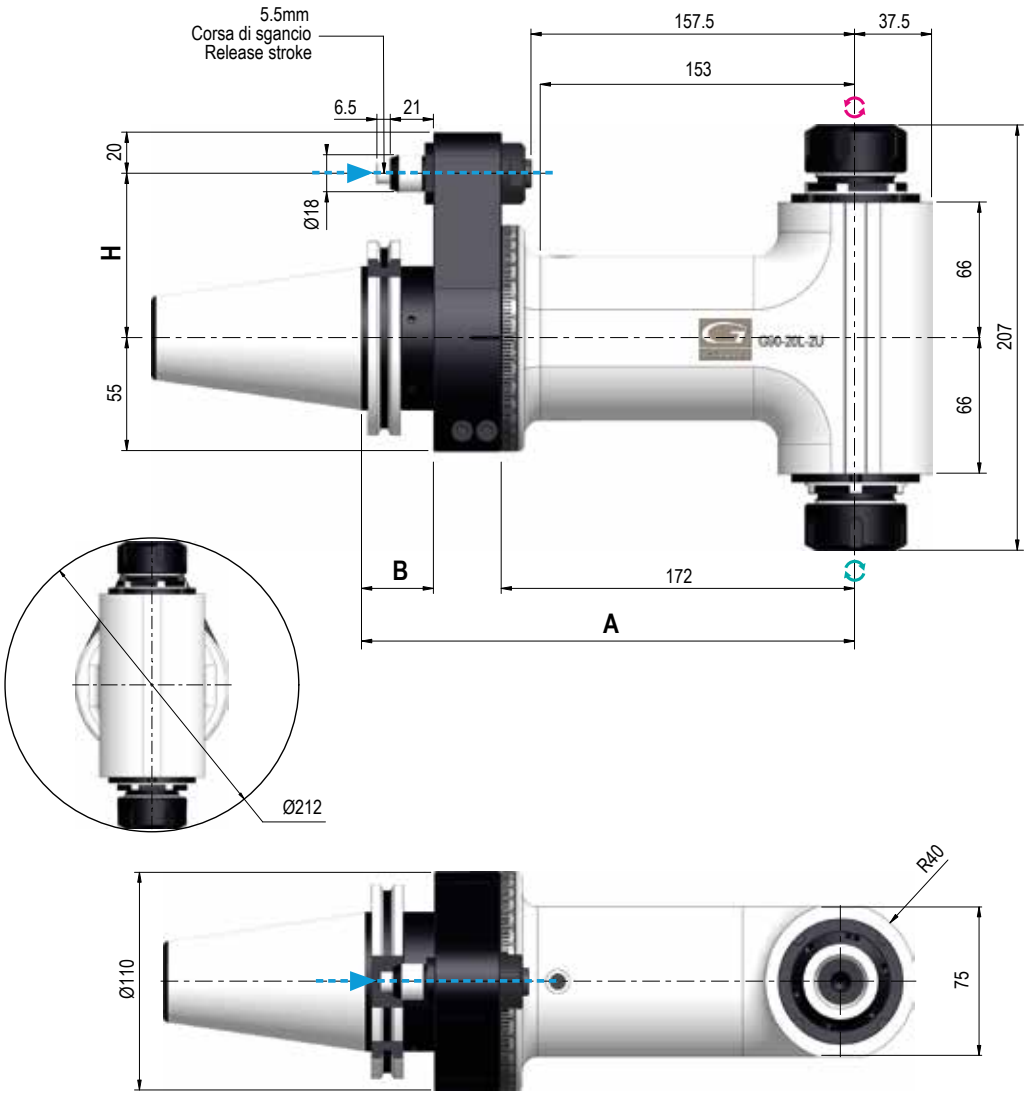
Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø20 (X2)
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø27 (X2)
optional



G90-20L-2U

TYPE 2

Code: 9.G90.20L2U0

Price:

1



Dati tecnici - Technical data

Ratio 1:1	Kg 15,5
Rpm 4.000	Ø 20
N 1.250	M 16
Nm 40	ER-32 Ø2/20

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623	
Grandezza - Size	50	50	50	80	100	C6	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional	
H Standard	80	80	80	80		80	
H Optional 110 *EXTRA Price* €	optional	optional	optional	optional		optional	
A	240	240	246	247	250	243	245
B	35	35	41	42	45	38	40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø20 (X2)
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø27 (X2)
optional

1

G90-30-2U

TYPE 3

Code: 9.G90.302U0

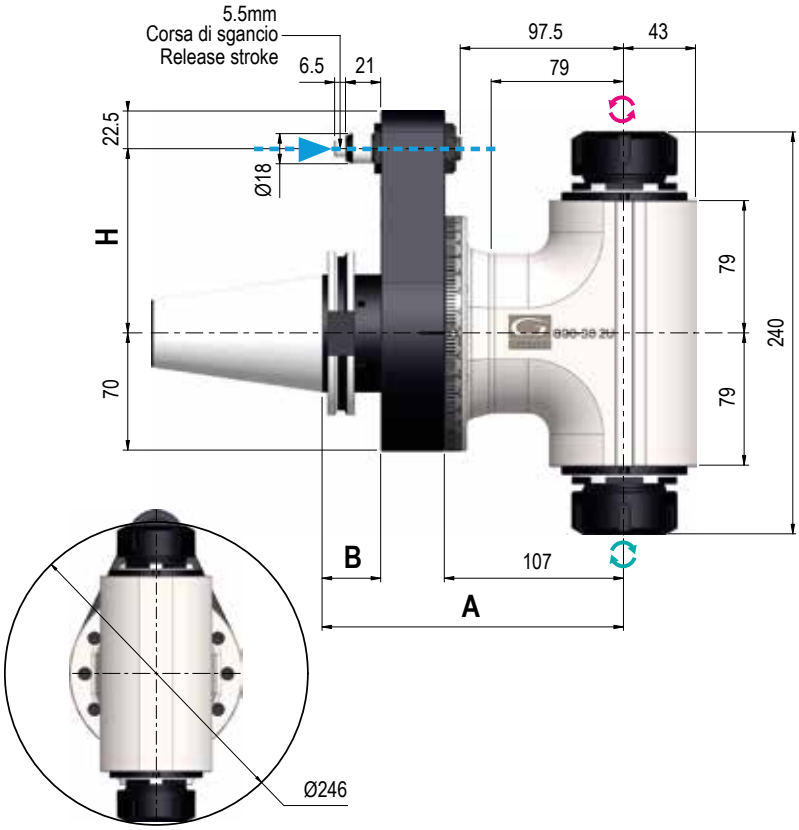
Price:

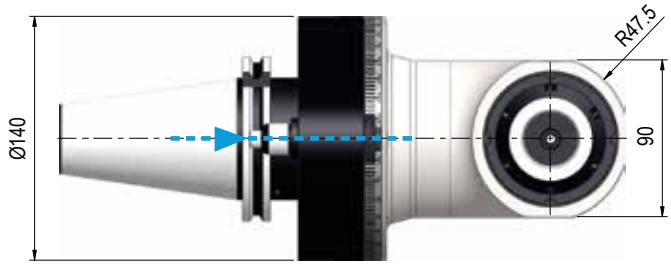
NEW



Dati tecnici - Technical data

- Ratio 1:1
- Kg 20
- Rpm 4.000
- Ø 30
- N 1.750
- M 20
- Nm 75
- ER-40 Ø3/30





SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional
H Standard Ø18	110	110	110	110		110
A	180	180	186	187	190	185
B	35	35	41	42	45	40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



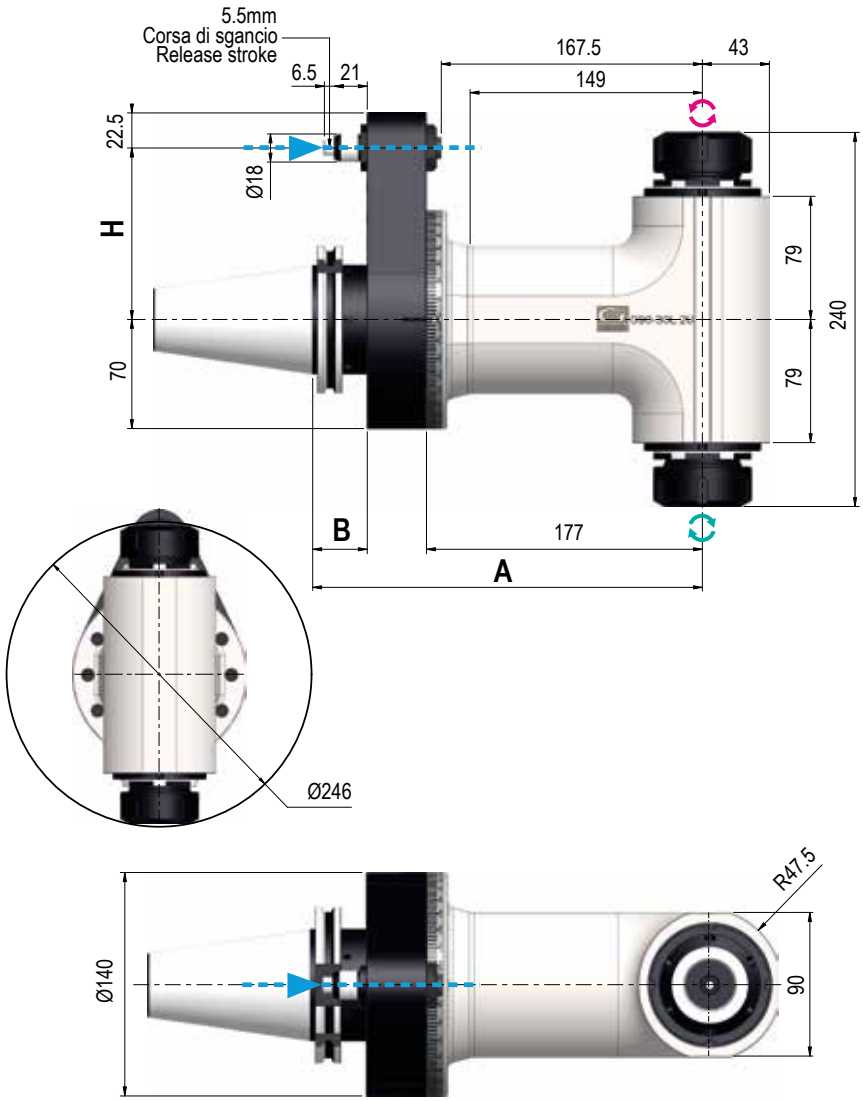
Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø25 (X2)
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø27 (X2)
optional



G90-30L-2U

TYPE 3

Code: 9.G90.30L2U0

Price:



Dati tecnici - Technical data

- Ratio 1:1
- Kg 23
- Rpm 4.000
- Ø 30
- N 1.750
- M 20
- Nm 75
- ER-40 Ø3/30

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional	optional
H Standard Ø18	110	110	110	110		110
A	250	250	256	257	260	255
B	35	35	41	42	45	40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø25 (X2)
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø27 (X2)
optional

1

GR90-5

TYPE 1

Code: 9.GR9.05000

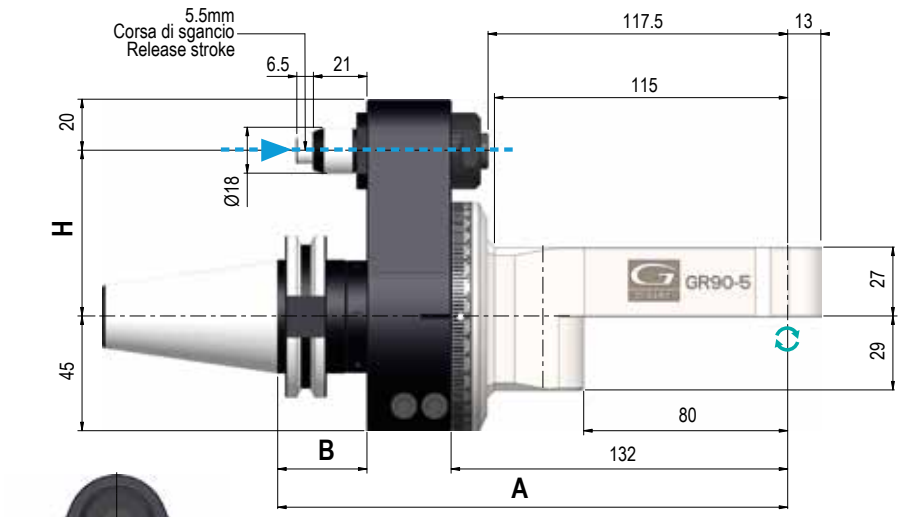
Price:

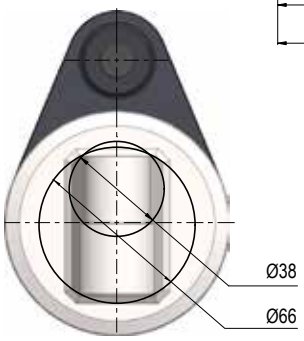
NEW



Dati tecnici - Technical data

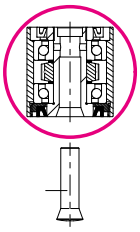
- Ratio 1:1
- Kg 4,7
- Rpm 8.000
- Ø 4,5
- N 140
- M 4
- Nm 9
- SCHAUBLIN P6 Ø0.3/5

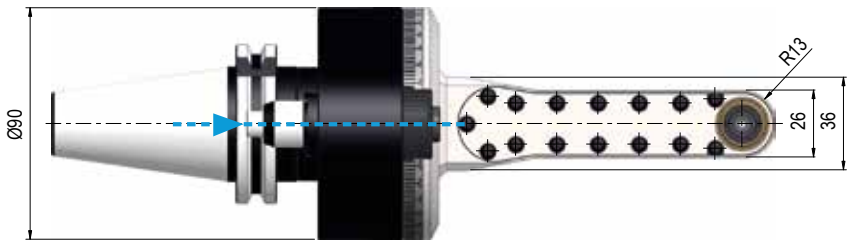






Pinza / Collet
SCHAUBLIN P6





SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	*90*	std	std	std	std	*90*	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80		80	65 / 80	80	65 / 80		80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional			optional		optional			optional			optional		

A	200	200	195	200	206	207	210	203	205	
B	35	35	30	35	41	42	45	38	40	

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

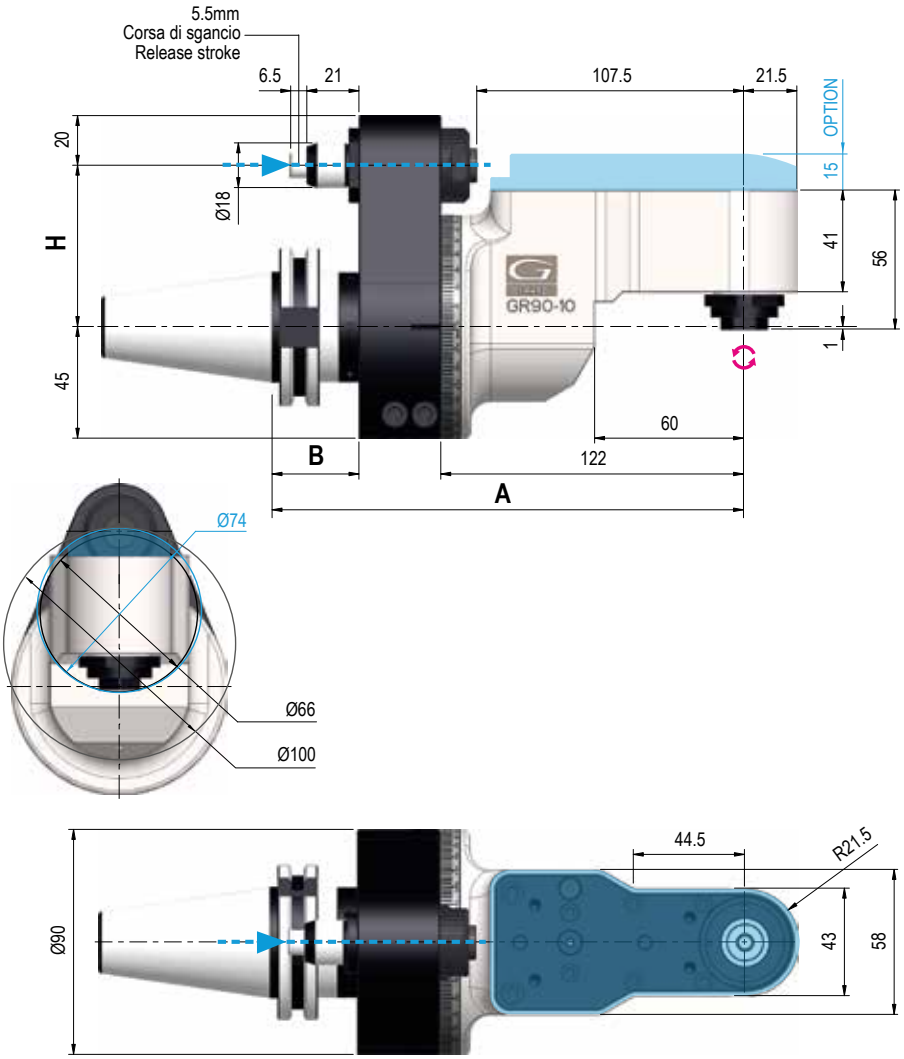
INTERASSE SPECIALE
SPECIAL PITCH

optional

USCITA
OUTPUT

Schaublin

Page 1.90



GR90-10

TYPE 1

Code: 9.GR9.10000

Price:

NEW



Dati tecnici - Technical data

Ratio 1:1,6	Kg 6,2
Rpm 4.000	Ø 10
N 620	M 8
Nm 20	ER16 Ø1/10

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	190		190		190	196	197		200	193		195
B	35		35		35	41	42		45	38		40

Dotazione Standard
Standard Equipment

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
optional

USCITA
OUTPUT
Weldon Max Ø10
optional

USCITA
OUTPUT
Toolholder Ø13
optional

INTERASSE SPECIAL
SPECIAL PITCH
optional

REFR. DAL CONO
COOLANT THROUGH SHANK
DRY RUNNING NOT POSSIBLE
Max 70 bar
optional

1

GR90-16

TYPE 1

Code: 9.GR9.16000

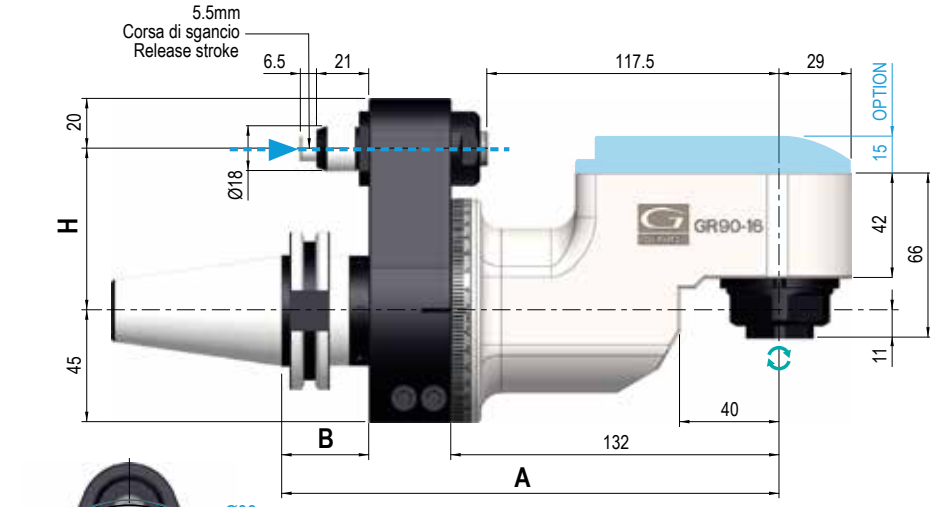
Price:

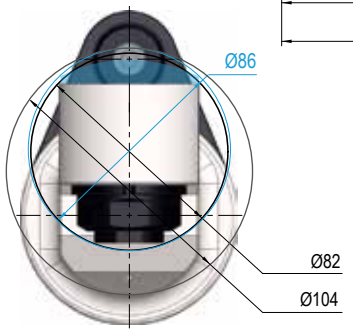
NEW

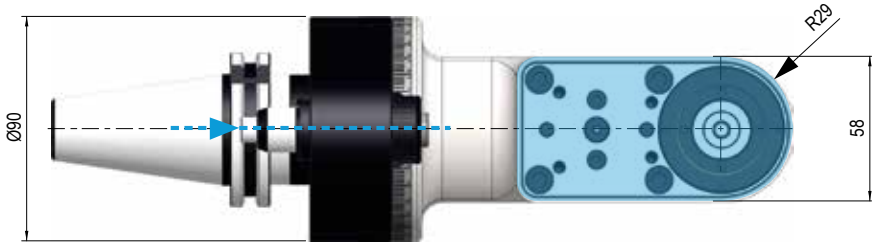


Dati tecnici - Technical data

- Ratio 1:1
- Kg 6
- Rpm 4.000
- Ø 16
- N 620
- M 12
- Nm 20
- ER-25 Ø1/16







SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80		80	65 / 80		80
H Optional 110 *EXTRA Price* €	optional		optional		optional		optional			optional		
A	200		200		200	206	207		210	203		205
B	35		35		35	41	42		45	38		40

DOTAZIONE STANDARD
STANDARD EQUIPMENT

Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO:
PACK & WEIGHT: Max. Kg



OPZIONI - OPTIONS

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
optional

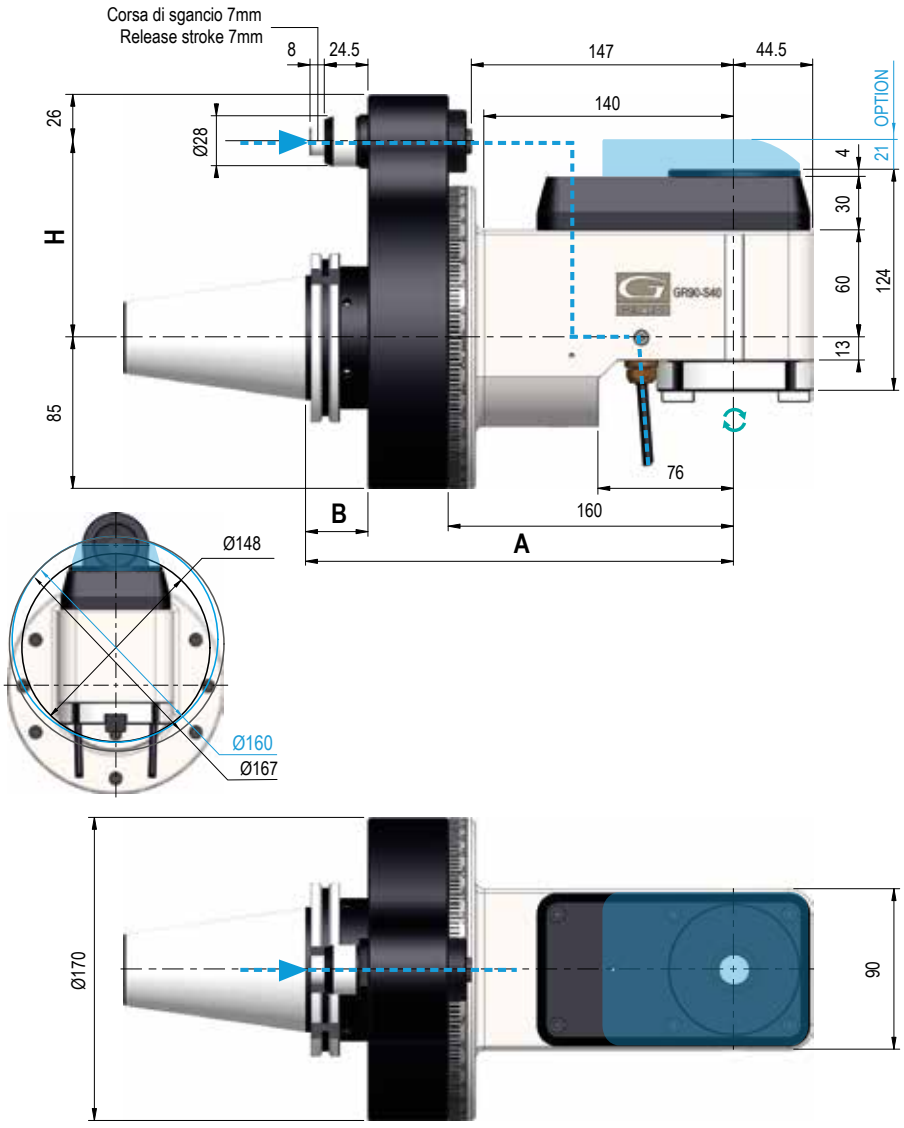
REFR. DAL CONO
COOLANT THROUGH SHANK
DRY RUNNING NOT POSSIBLE
Max 70 bar
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø16
optional

INTERASSE SPECIALE
SPECIAL PITCH
optional

USCITA
OUTPUT
Weldon Max Ø 16
optional

USCITA
OUTPUT
HSK 32
std



GR90-S40

TYPE 4

Code: 9.GR9.S4000

Price:



Dati tecnici - Technical data

Ratio 1:1	Kg 22,6
Rpm 4.000	Ø 26
N 1.800	M 20
Nm 140	ISO / CAT / BT 40

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893	C. ISO 26623
Grandezza - Size	50	50	50	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard Ø28	110	110	110	110	110
A	240	240	246	250	245
B	35	35	41	45	40

Dotazione Standard
Standard Equipment

Cassa in legno - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Stop-block - ER nut - Wrenches - Grease tube- Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

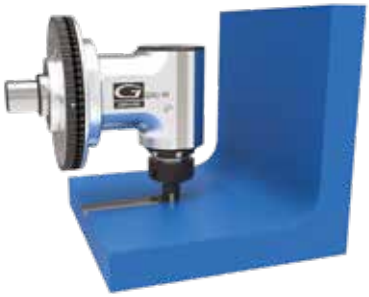
ALTA VELOCITÀ HIGH SPEED 5.000 Rpm optional	REFR. DAL PERNO COOLANT PIN THROUGH DRY RUNNING POSSIBLE Max 10 bar optional	USCITA OUTPUT Weldon Max Ø26 optional	USCITA OUTPUT Portafresa Toolholder Ø32 optional
INTERASSE SPECIALE SPECIAL PITCH optional	REFR. DAL CONO COOLANT THROUGH SHANK DRY RUNNING NOT POSSIBLE Max 70 bar optional	USCITA OUTPUT HSK 63 optional	USCITA OUTPUT C4 opt. / C5 opt.

1

SERIE MTC - CAMBIO UTENSILE MANUALE
MTC SERIES - MANUAL TOOL CHANGE

- **Serie G90**
- G90 Series

series
STD 90°

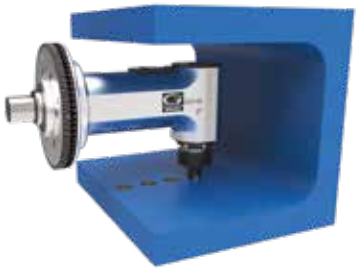


La serie ideale per fresature, forature e maschiature a ±90°

The ideal series for milling, drilling and tappint at ±90°

- **Serie G90L**
- G90L Series

series
STD 90°



La serie ideale per fresature, forature e maschiature a ±90°

The ideal series for milling, drilling and tappint at ±90°

- **Serie GMU**
- GMU Series

series
GMU



La serie di teste angolari con angolazione regolabile da 0 a 90°.

Angle heads series with adjustable angle from 0 to 90°.

- **Serie GMU**
- GMU Series

series
GMU



La serie di teste angolari con angolazione regolabile da 0 a 360°.

Angle heads series with adjustable angle from 0 to 360°.

- **Serie G90 2U**
- G90 2U Series

series
DOUB2E



La serie di teste angolari ideali per fresature, forature e maschiature attraverso 2 mandrini contrapposti di 180°

Angle Heads series for milling drilling and tapping through 2 opposite outputs

MTC SERIES
MANUAL TOOL CHANGE



INGRANAGGI
GEARS

Ingranaggi Gleason con evolvente rettificato: massime performances e minori vibrazioni

Gleason ground spiral bevel gears maximum performances and minimum vibration



CUSCINETTI - BEARINGS

Cuscinetti a sfera a contatto obliquo in classe di precisione ABEC 9

Angular contact preloaded ball bearings of precision class ABEC 9

DESIGN

Il Design compatto, insieme alle specifiche descritte, consente: alte perfomances, elevate velocità, lunga durata degli utensili.

The Compact design, along with mentioned specifications, allows: highest performances, high speeds, long tools life

Anello graduato
Graduated ring



Flangia universale
Universal flange

USCITE
OUTPUTS:

- **Portapinza ER (standard)**
- **Weldon**
- **Portafresa**
- **Speciale**

- ER collet (standard)
- Weldon
- Shell mill holder
- Special

Corpo testa orientabile a 360° con pressurizzazione interna. In acciaio trattato, massima rigidità e resistenza alla corrosione. Minima dilatazione termica.

Treated steel head body with 360° position and internal air pressure, maximum rigidity and corrosion resistant. Minimum thermal expansion

E' la linea di teste adatte a macchine utensili tradizionali e da fissare al mandrino tramite flangiatura. La cava a "T" ricavata sulla flangia universale permette un facile posizionamento del corpo testa sui 360° intorno al suo asse verticale. Un sistema modulare componibile, rende possibile variare la lunghezza del corpo testa aggiungendo l'elemento di prolunga. Modulo di prolunga, coni e flangia universale sono modulari e quindi intercambiabili su tutti i corpi testa appartenenti allo stesso ordine di grandezza.

This is a range of heads for traditional machine tools with flange attachment. The T-slot on the universal flange facilitates positioning the head 360° around its vertical axis. The modular system makes it possible to extend the lenght of the body by additing a spacer.
The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.

PROLUNGHE MTC
MTC EXTENSIONS



Prolunghe MTC

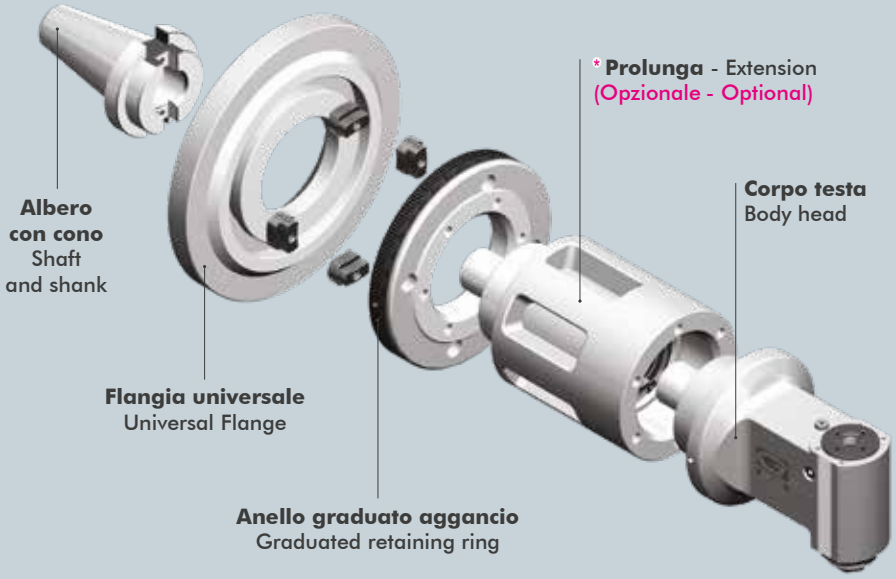
pag 1.87

Sulla serie di teste MTC è possibile variare la lunghezza del corpo aggiungendo il modulo di prolunga.

MTC Extension

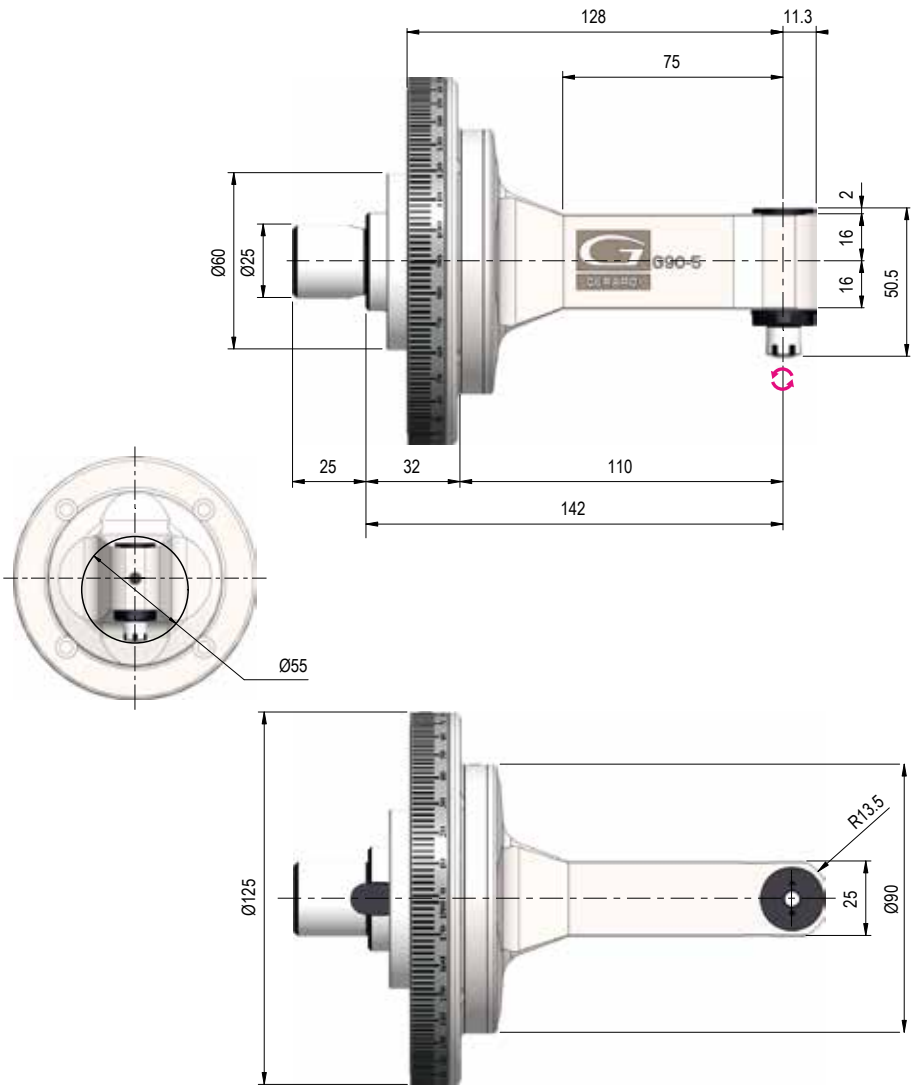
pag 1.87

On MTC series is possible to extend the lenght of the body by adding an extension



La cava a "T", ricavata sulla flangia universale, permette un facile posizionamento del corpo testa sui 360° intorno al suo asse verticale. Un sistema modulare componibile, rende possbile variare la lunghezza del corpo testa aggiungendo l'elemento di *prolunga (Opzionale). Massimo 2 elementi di prolunga ammessi.

The T-slot on the universal flange facilitates the positioning the head 360° around its vertical axis. The modular system makes it possible to extend the lenght of the body by adding a *extension (Optional). Max. 2 extensions admitted.



G90-5

TYPE 1

Code: 9.G90.05001

Price:

NEW



Per MICRO lavorazioni
For **MICRO** machining

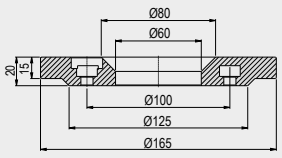
Dati tecnici - Technical data

Ratio 1:1	Kg 4
Rpm 10.000	Ø 5
N 60	M 4
Nm 4	ER-8 Ø0,5/5

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

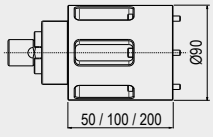
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono std - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO:
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED

10.000 Rpm

Included !!

USCITA
OUTPUT

Weldon Max Ø6

optional

1

G90-7

TYPE 1

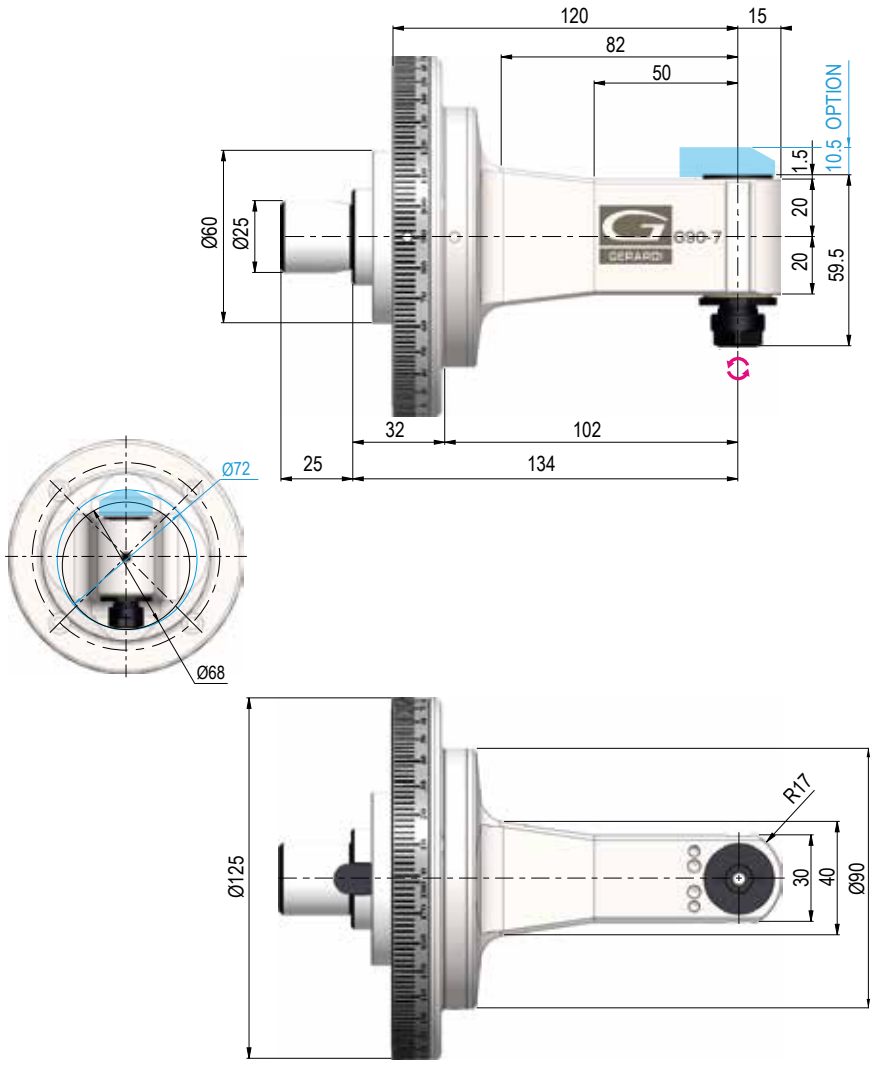
Code: 9.G90.07001

Price:



Dati tecnici - Technical data

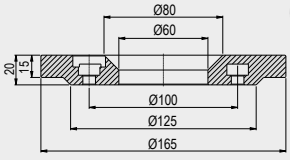
- Ratio 1:1
- Kg 3,7
- Rpm 10.000
- Ø 7
- N 120
- M 6
- Nm 5
- ER-11 Ø1/7



SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

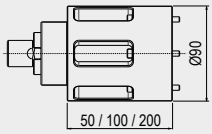
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
10.000 Rpm
Included !!

DOPPIA USCITA
DOUBLE OUTPUT
ER11 - ER8 M
optional

USCITA
OUTPUT
Weldon Max Ø8
optional

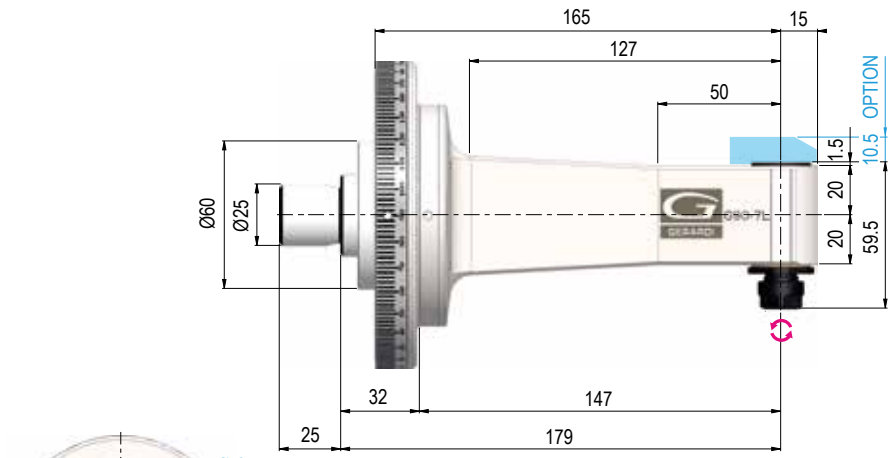
REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR
DRY RUNNING POSSIBLE
Max 10 bar
optional

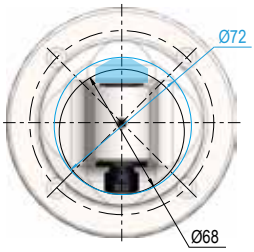
G90-7L

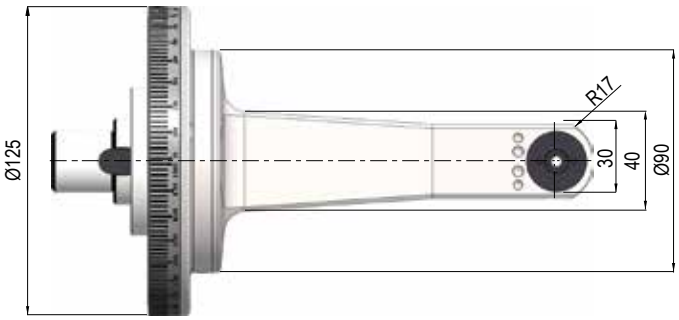
TYPE 1

Code: 9.G90.07L01

Price:









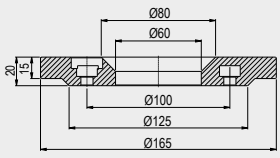
Dati tecnici - Technical data

- Ratio 1:1
- Kg 4
- Rpm 10.000
- Ø 7
- N 120
- M 6
- Nm 5
- ER-11 Ø1/7

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

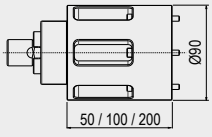
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono std - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
10.000 Rpm
Included !!

DOPPIA USCITA
DOUBLE OUTPUT
ER11 - ER8 M
optional

USCITA
OUTPUT
Weldon Max Ø8
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR
DRY RUNNING POSSIBLE
Max 10 bar
optional

1

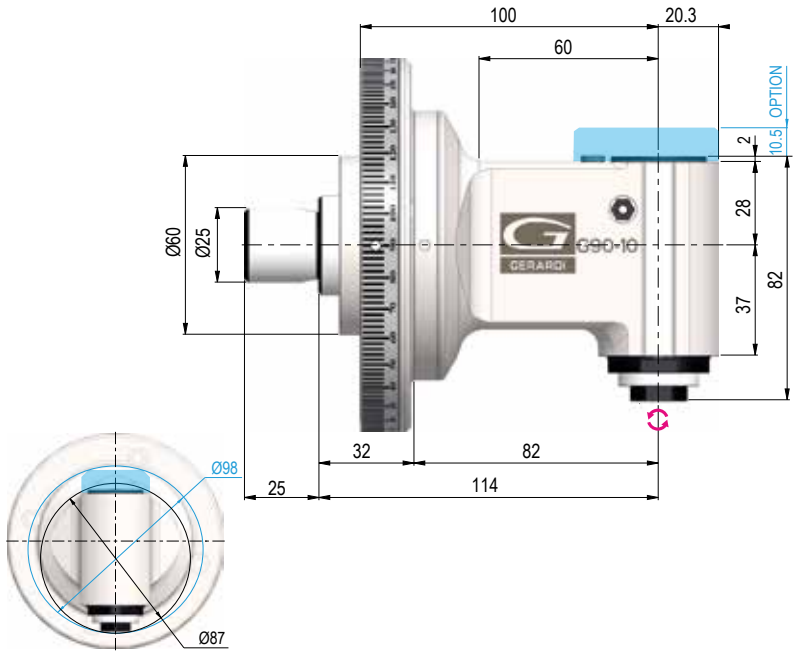
G90-10

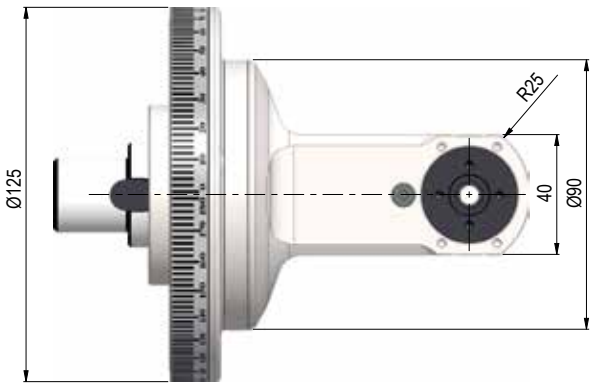
TYPE 1

Code: 9.G90.10001

Price:







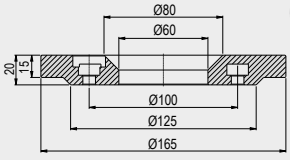
Dati tecnici - Technical data

- Ratio 1:1
- Kg 4,3
- Rpm 10.000
- Ø 10
- N 250
- M 8
- Nm 10
- ER-16 Ø1/10

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

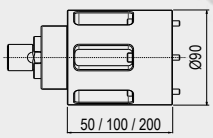
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max.9,5 Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
10.000 Rpm
Included !!

USCITA
OUTPUT
Weldon Max Ø10
optional

DOPPIA USCITA
DOUBLE OUTPUT
ER 16 / ER 11 M
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE	DRY RUNNING NOT POSSIBLE
Max 10 bar	Max 40 bar

optional

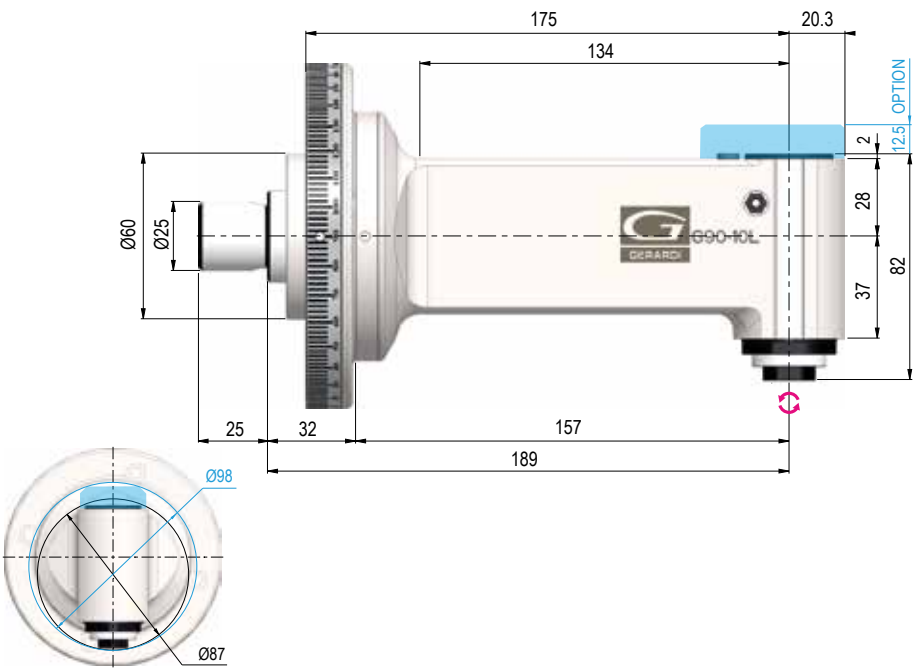
USCITA
OUTPUT
Portafresa - Toolholder Ø13
optional

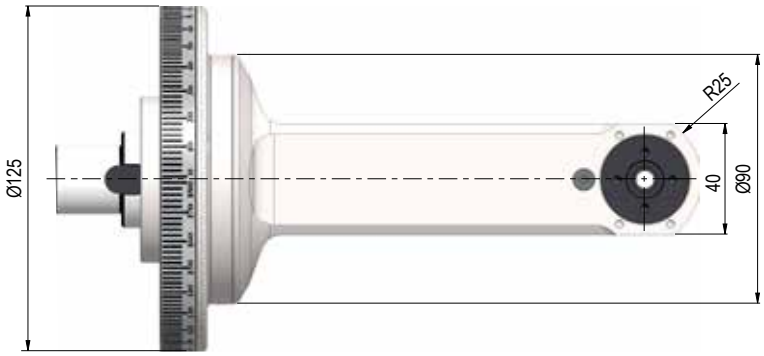
G90-10L

TYPE 1

Code: 9.G90.10L01

Price:







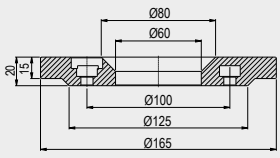
Dati tecnici - Technical data

Ratio 1:1	Kg 6
Rpm 10.000	ER 16
N 250	M 8
Nm 10	ER-16 Ø1/10

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

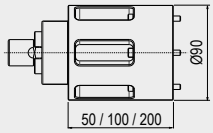
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono std - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
10.000 Rpm
Included !!

USCITA
OUTPUT
Weldon Max Ø10
optional

DOPPIA USCITA
DOUBLE OUTPUT
ER 16 / ER 11 M
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR
DRY RUNNING POSSIBLE | DRY RUNNING NOT POSSIBLE
Max 10 bar | Max 40 bar
optional

USCITA
OUTPUT
Portafresa - Toolholder Ø13
optional

1

G90-16

TYPE 1

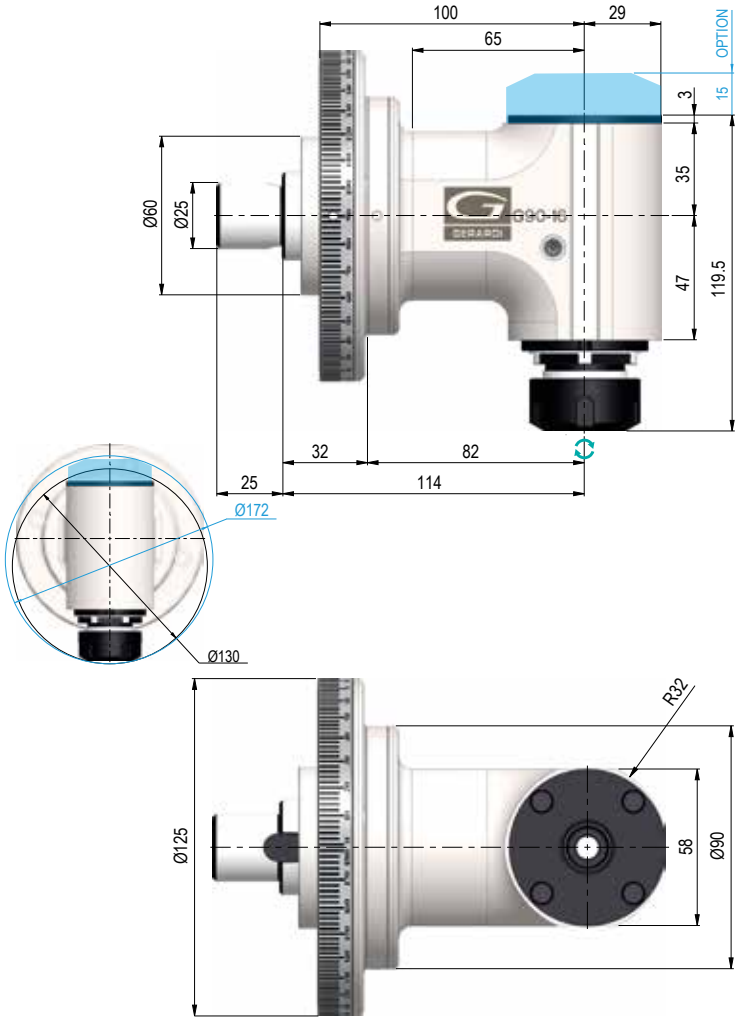
Code: 9.G90.16001

Price:



Dati tecnici - Technical data

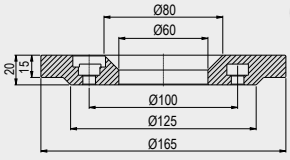
- Ratio 1:1
- Kg 4,5
- Rpm 8.000
- Ø 16
- N 510
- M 12
- Nm 24
- ER-25 Ø1/16



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

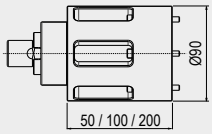
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
Included !!

USCITA
OUTPUT
Weldon Max Ø16
optional

USCITA
OUTPUT
HSK 32
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR
DRY RUNNING POSSIBLE | DRY RUNNING NO POSSIBLE
Max 10 bar | Max 40 bar
optional

USCITA
OUTPUT
Portafresa - Toolholder Ø16
optional

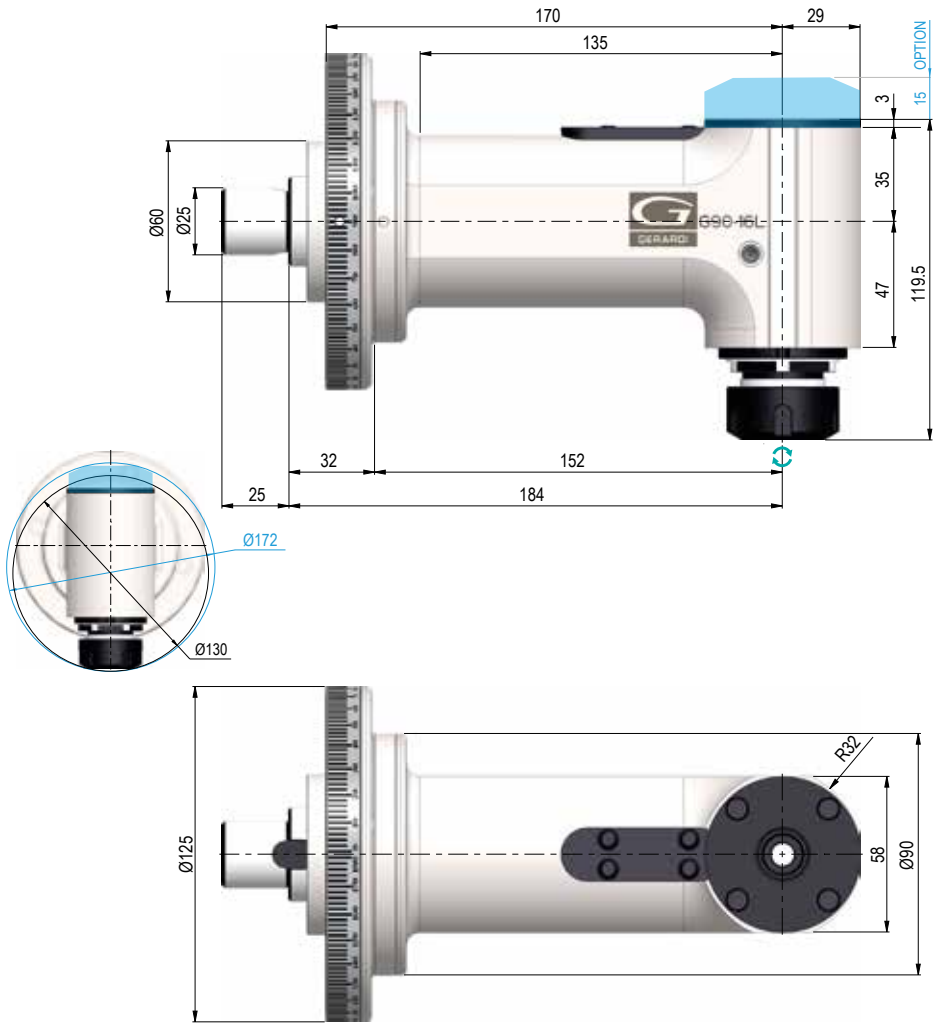
DOPPIA USCITA
DOUBLE OUTPUT
ER 25 / ER 16 M
optional

G90-16L

TYPE 1

Code: 9.G90.16L01

Price:





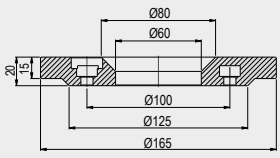
Dati tecnici - Technical data

Ratio 1:1	Kg 6,1
Rpm 8.000	Ø 16
N 510	M 12
Nm 24	ER-25 Ø1/16

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

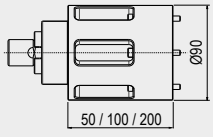
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono std - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
Included !!

USCITA
OUTPUT
Weldon Max Ø16
optional

USCITA
OUTPUT
HSK 32
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR
DRY RUNNING POSSIBLE | DRY RUNNING NO POSSIBLE
Max 10 bar | Max 40 bar
optional

USCITA
OUTPUT
Portafresa - Toolholder Ø16
optional

DOPPIA USCITA
DOUBLE OUTPUT
ER 25 / ER 16 M
optional

1

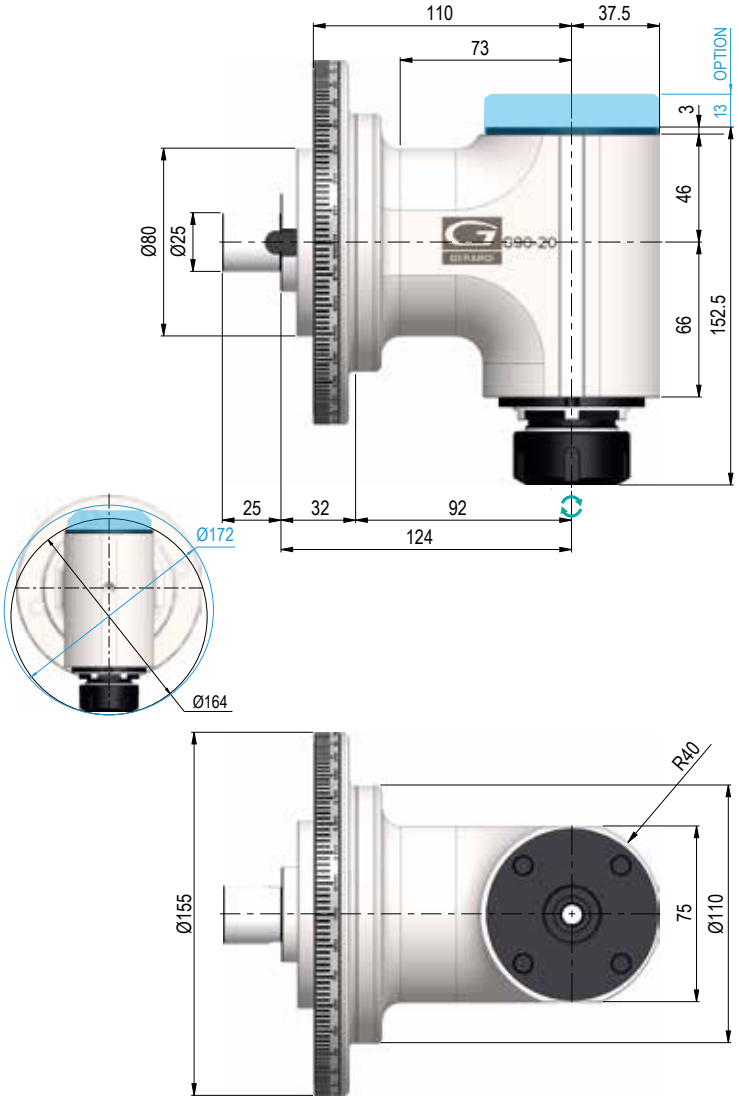
G90-20

TYPE 2

Code: 9.G90.20001

Price:





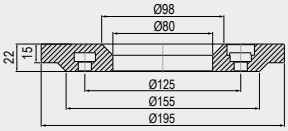
Dati tecnici - Technical data

Ratio 1:1	Kg 10
Rpm 4.000	Ø 20
N 1.250	M 16
Nm 40	ER-32 Ø2/20

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

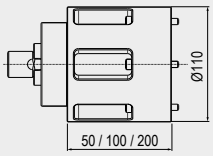
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 2





Prolunga
Extension
TIPO - TYPE 2





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ HIGH SPEED 6.000 Rpm optional	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR DRY RUNNING POSSIBLE MAX 10bar optional	USCITA OUTPUT Weldon Max Ø20 optional	USCITA OUTPUT Portafresa Toolholder Ø22 optional	DOPPIA USCITA DOUBLE OUTPUT ER32 - ER20 M optional
USCITA OUTPUT C4 € 480	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR DRY RUNNING NOT POSSIBLE MAX 40bar € 460	USCITA OUTPUT HSK 40 € 445	USCITA OUTPUT ISO/CAT/ BT 30 optional	

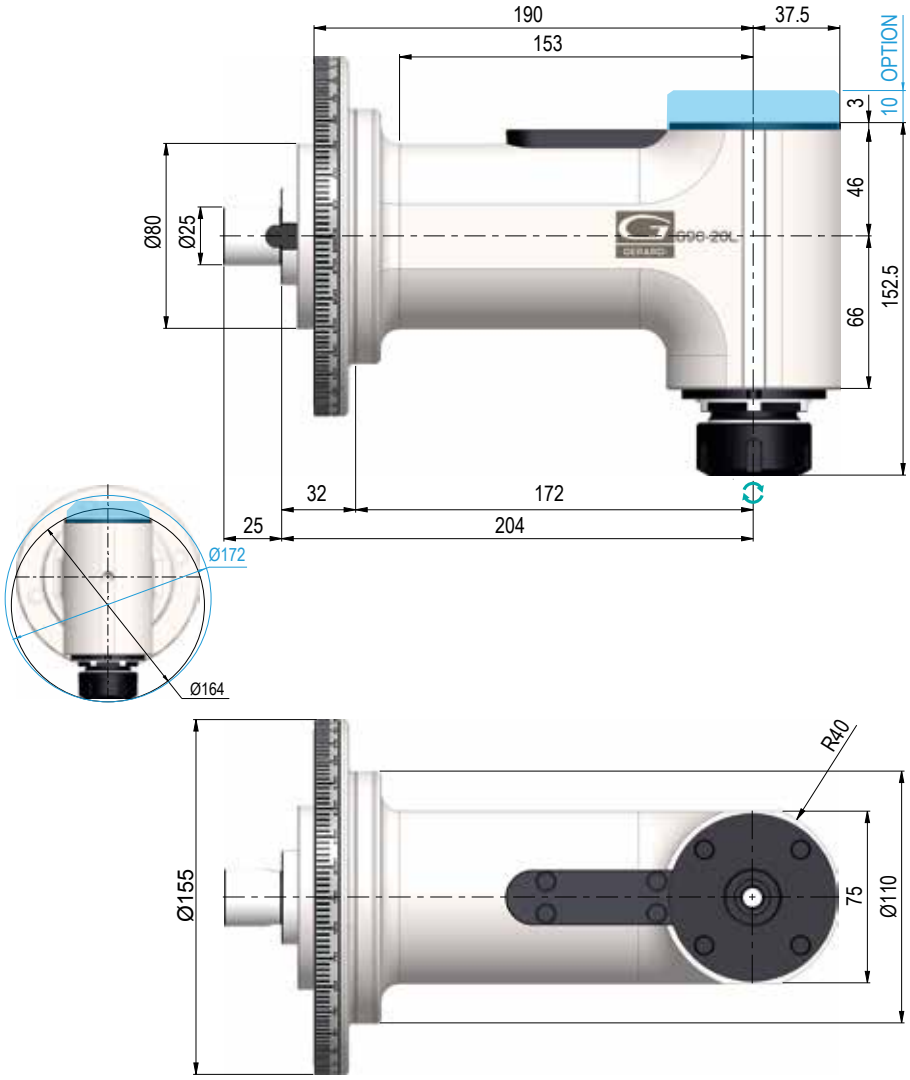
G90-20L

TYPE 2

Code: 9.G90.20L01

Price:





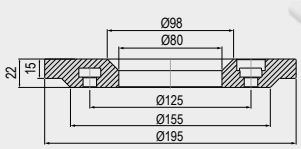
Dati tecnici - Technical data

Ratio 1:1	Kg 12,2
Rpm 4.000	Ø 20
N 1.250	M 16
Nm 40	ER-32 Ø2/20

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

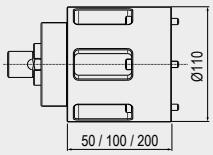
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 2





Prolunga
Extension
TIPO - TYPE 2





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ HIGH SPEED 6.000 Rpm optional	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR DRY RUNNING POSSIBLE MAX 10bar optional	USCITA OUTPUT Weldon Max Ø20 optional	USCITA OUTPUT Portafresa Toolholder Ø22 optional	DOPPIA USCITA DOUBLE OUTPUT ER32 - ER20 M optional
USCITA OUTPUT C4 optional	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR DRY RUNNING NOT POSSIBLE MAX 40bar optional	USCITA OUTPUT HSK 40 optional	USCITA OUTPUT ISO/CAT/ BT 30 optional	

1

G90-30

TYPE 3

Code: 9.G90.30001

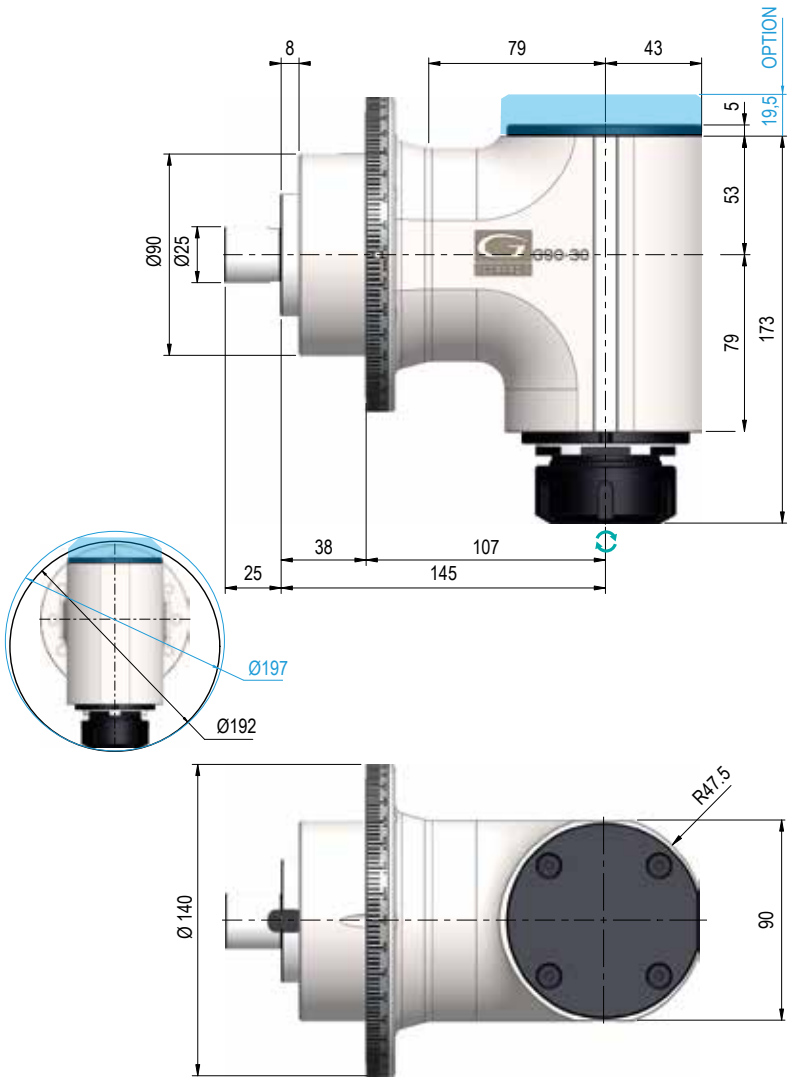
Price:

NEW



Dati tecnici - Technical data

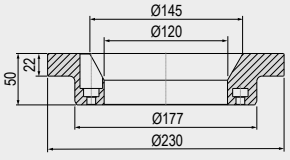
- Ratio 1:1
- Kg 17
- Rpm 4.000
- Ø30
- N 1.750
- M20
- Nm 75
- ER-40 Ø3/30



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

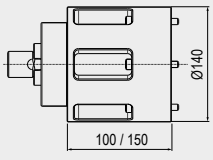
Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 3





Prolunga
Extension
TIPO - TYPE 3





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank Instruction book

IMBALLO & PESO
PACK & WEIGHT:



Opzioni - Options

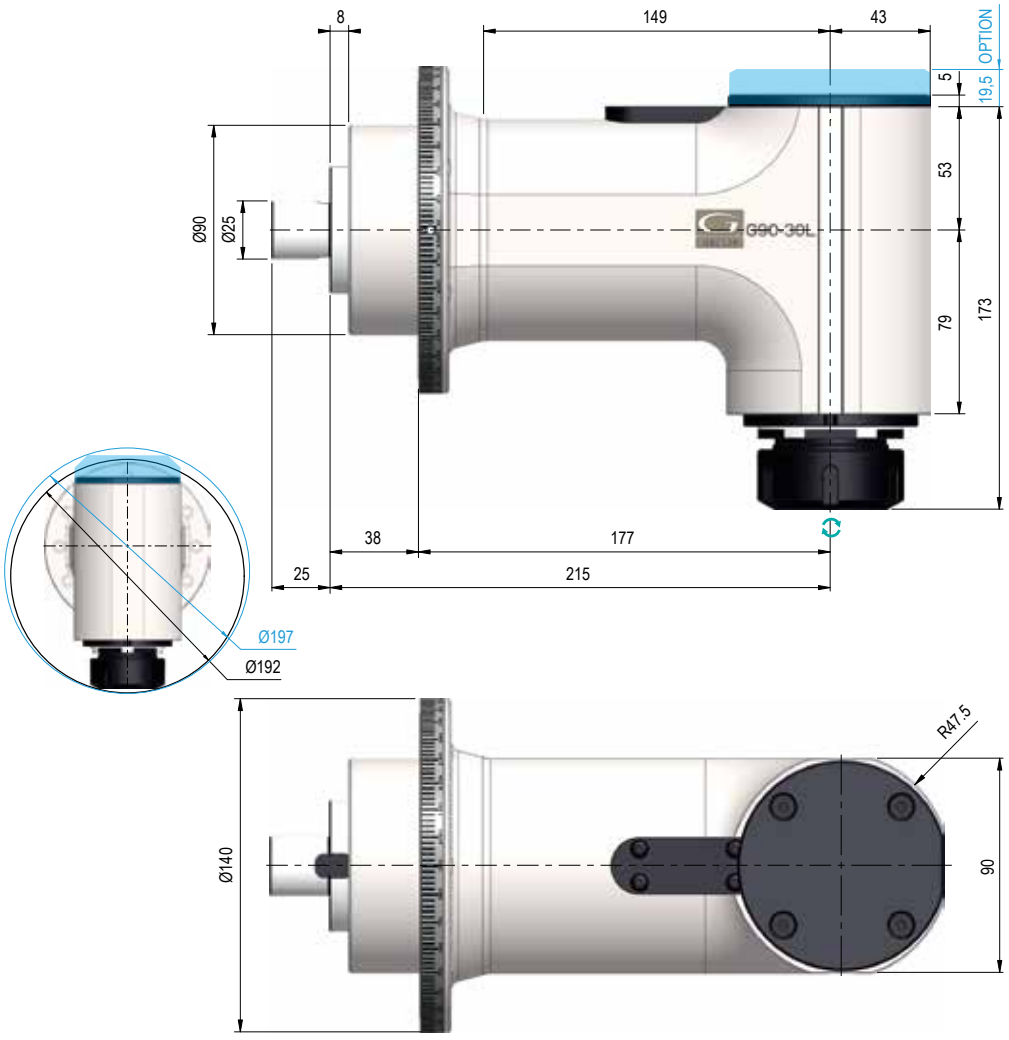
ALTA VELOCITÀ HIGH SPEED 6000 Rpm optional	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR DRY RUNNING POSSIBLE MAX 10bar optional	USCITA OUTPUT Weldon Max Ø25 optional	USCITA OUTPUT Portafresa Toolholder Ø27 optional	USCITA OUTPUT ISO 30 optional	
DOPPIA USCITA DOUBLE OUTPUT ER40 - ER25M optional	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR DRY RUNNING NOT POSSIBLE MAX 30bar optional	USCITA OUTPUT HSK 40 optional	USCITA OUTPUT C4 optional		

G90-30L

TYPE 3

Code: 9.G90.30L01

Price:





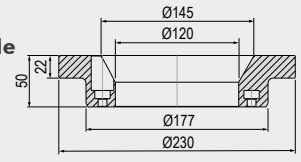
Dati tecnici - Technical data

Ratio 1:1	Kg 20
Rpm 4.000	Ø30
N 1.750	M20
Nm 75	ER-40 Ø3/30

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

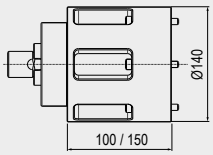
Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 3





Prolunga
Extension
TIPO - TYPE 3





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank Instruction book

IMBALLO & PESO
PACK & WEIGHT:



Opzioni - Options

ALTA VELOCITÀ HIGH SPEED 6000 Rpm optional	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR DRY RUNNING POSSIBLE MAX 10bar optional	USCITA OUTPUT Weldon Max Ø25 optional	USCITA OUTPUT Portafresa Toolholder Ø27 optional	USCITA OUTPUT ISO 30 optional
DOPPIA USCITA DOUBLE OUTPUT ER40 - ER25M optional	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR DRY RUNNING NOT POSSIBLE MAX 30bar optional	USCITA OUTPUT HSK 40 optional	USCITA OUTPUT C4 optional	

1

G90-S40

TYPE 4

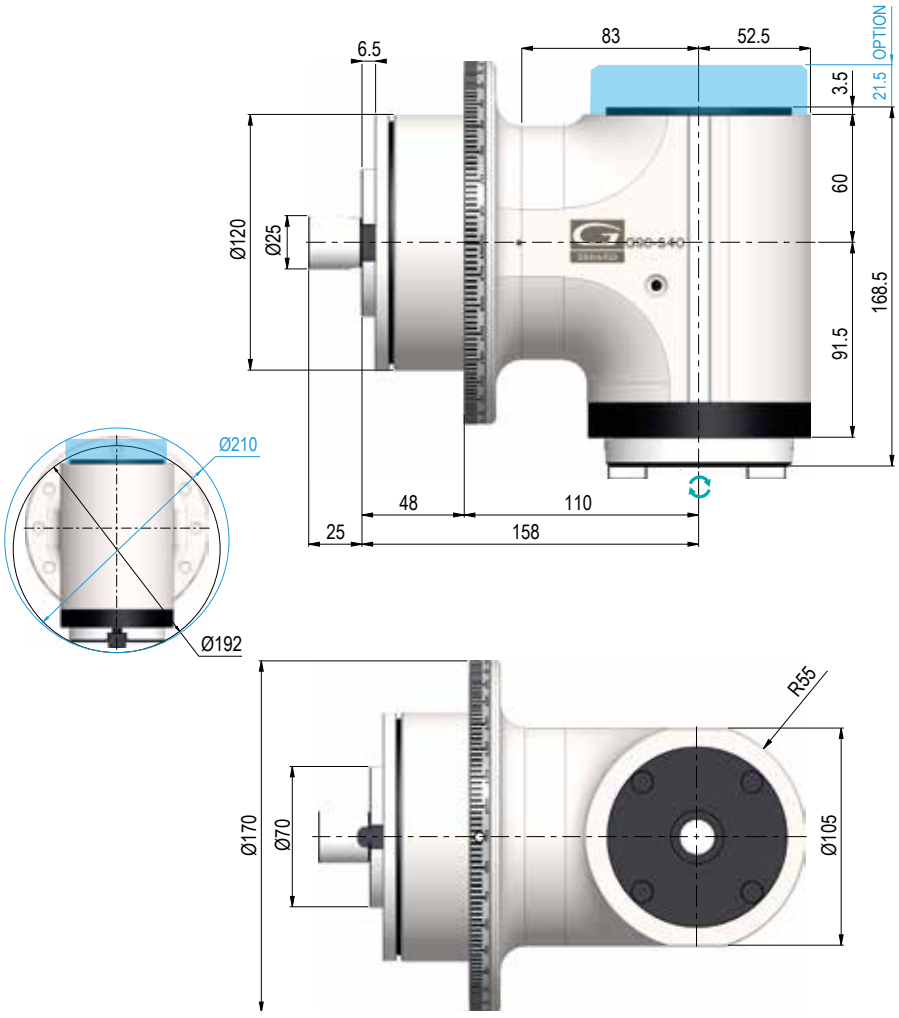
Code: 9.G90.S4001

Price:



Dati tecnici - Technical data

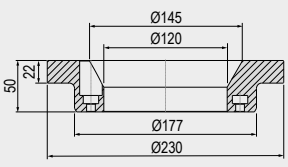
- Ratio 1:1
- Kg 22
- Rpm 4.000
- Ø26
- N 1.800
- M20
- Nm 140
- ISO / CAT / BT 40



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 4





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
5.000 Rpm
optional

USCITA
OUTPUT
HSK 63
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE	DRY RUNNING NOT POSSIBLE
Max 10 bar	Max 30 bar

optional

USCITA
OUTPUT

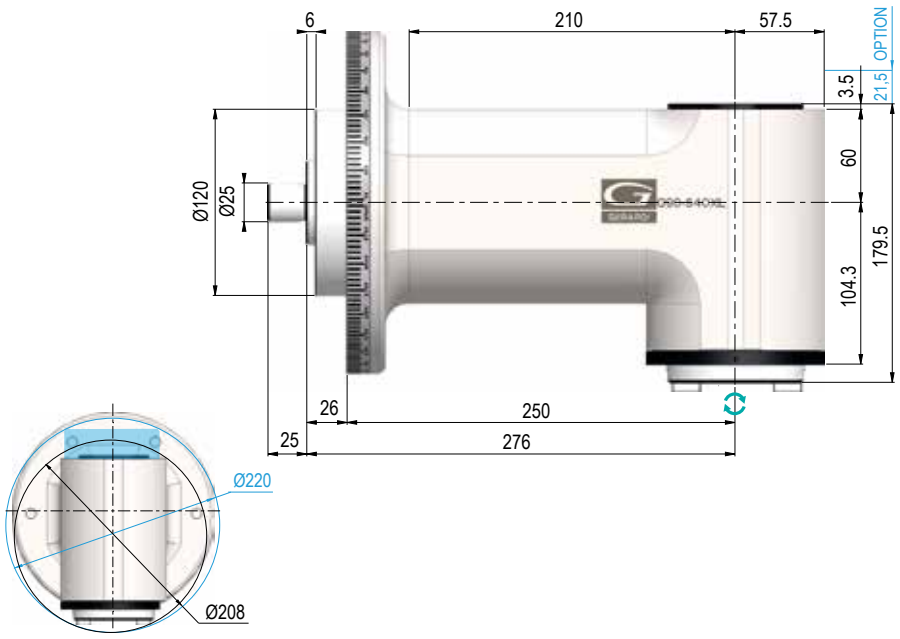
C4	C5
optional	optional

G90-S40XL

TYPE 5

Code: 9.G90.S40XL1

Price:





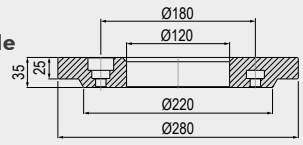
Dati tecnici - Technical data

Ratio 1:1	Kg 32,5
Rpm 4.000	Ø30
N 2.400	M22
Nm 140	ISO / CAT / BT 40

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 5





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max.70 Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
5.000 Rpm
optional

USCITA
OUTPUT
HSK 63
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE	DRY RUNNING NOT POSSIBLE
Max 10 bar	Max 30 bar
optional	

USCITA
OUTPUT

C4	C5
optional	optional

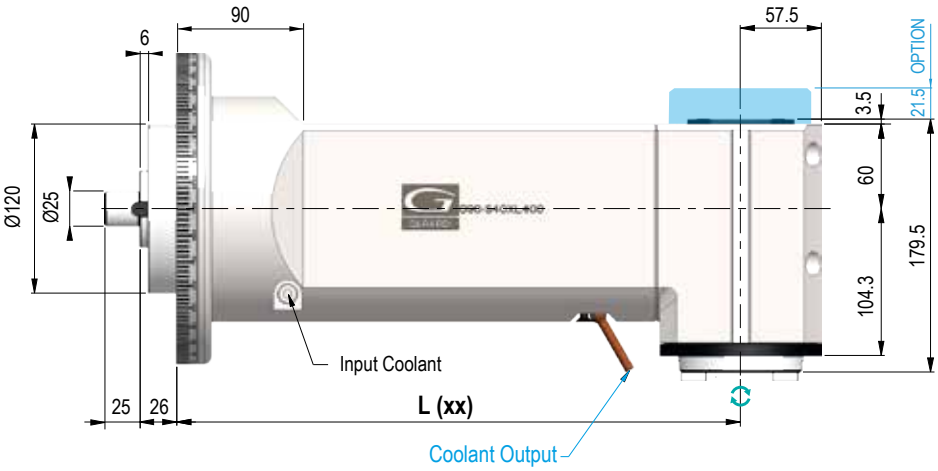
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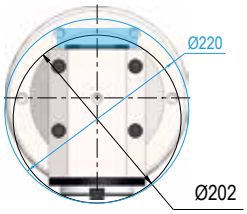
G90-S40XL xx

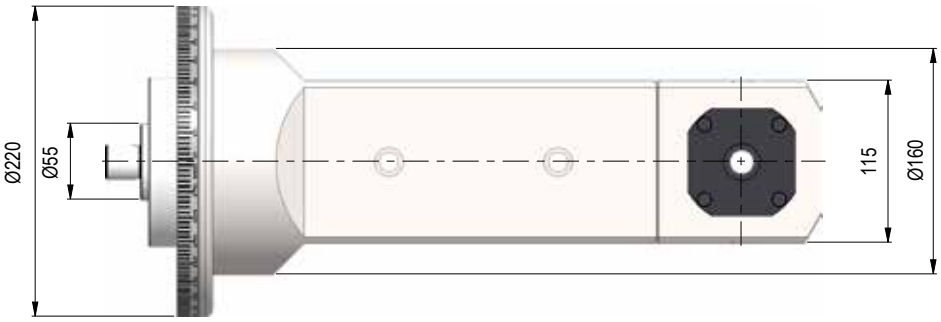
TYPE 5

9.G90.S40XL	.400	.500	.600	.700









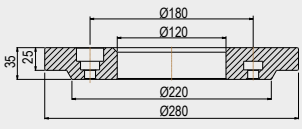
Dati tecnici - Technical data

- Ratio 1:1
- *L= 400 - 57 Kg*
- *L= 500 - 67 Kg*
- *L= 600 - 78 Kg*
- *L= 700 - 86 Kg*
- Rpm 4.000
- Ø30
- N 2.400
- M22
- Nm 140
- ISO / CAT / BT40

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 5





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
5.000 Rpm
optional

USCITA
OUTPUT
HSK 63
optional

LUNGHEZZE SPECIALI
SPECIAL LENGHT
on request

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE	DRY RUNNING NOT POSSIBLE
Max 10 bar	Max 30 bar
optional	

USCITA
OUTPUT

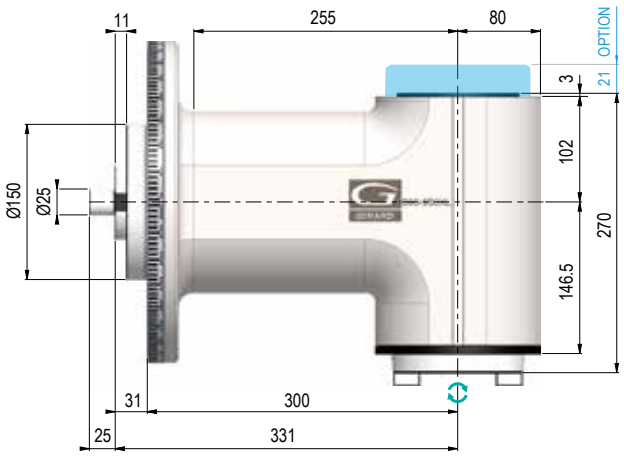
C4	C5
opt.	opt.

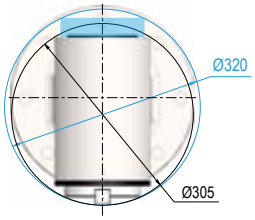
G90-S50

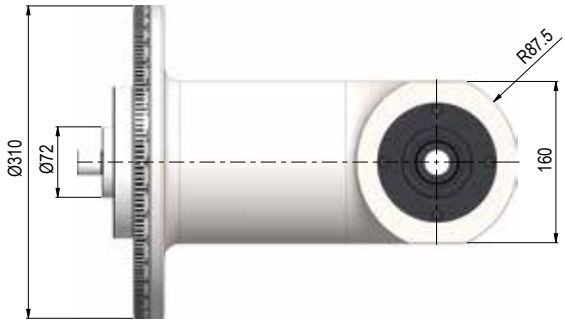
TYPE 6

Code: 9.G90.S5001

Price:









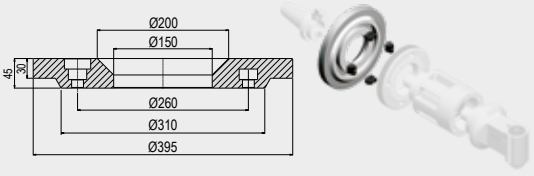
Dati tecnici - Technical data

- Ratio 1:1
- Kg 77
- Rpm 3.000
- Ø45
- N 3.300
- M36
- Nm 400
- ISO / CAT / BT 50

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 6



Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg

Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
4.000 Rpm
optional

USCITA
OUTPUT
HSK 63
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE	DRY RUNNING NOT POSSIBLE
Max 10 bar	Max 30 bar

optional

USCITA
OUTPUT

C6	C8
on request	

1

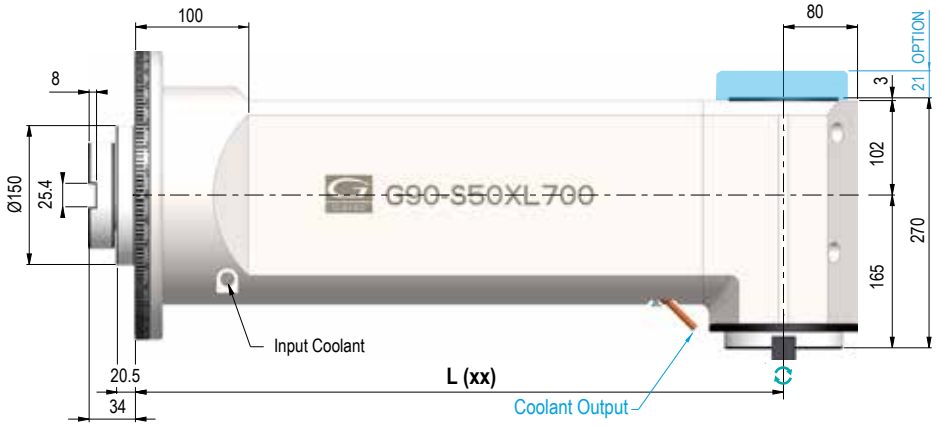
G90-S50XL xx

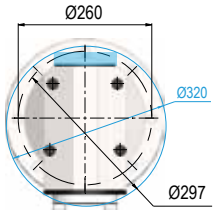
TYPE 6

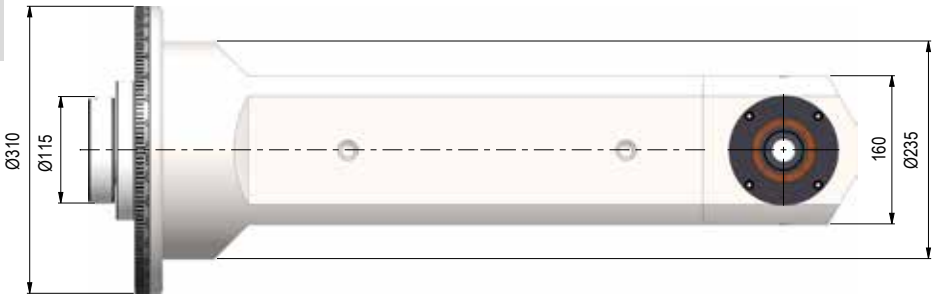
9.G90.S50XL	.400	.500	.600	.700	.800

NEW









Dati tecnici - Technical data

Ratio 1:1

Kg

L= 400 - 149 Kg
L= 500 - 169 Kg
L= 600 - 190 Kg
L= 700 - 211 Kg
L= 800 - 231 Kg

Rpm 3.000

Ø45

N 3.300

M36

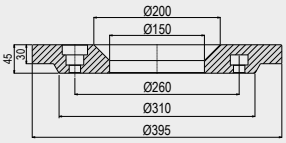
Nm 400

ISO /CAT BT 50

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 6





DOTAZIONE STANDARD
STANDARD EQUIPMENT

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



OPZIONI - OPTIONS

ALTA VELOCITÀ
HIGH SPEED
4.000 Rpm
optional

USCITA
OUTPUT
HSK 63
optional

LUNGHEZZE SPECIALI
SPECIAL LENGHT
on request

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE	DRY RUNNING NOT POSSIBLE
Max 10 bar	Max 30 bar

optional

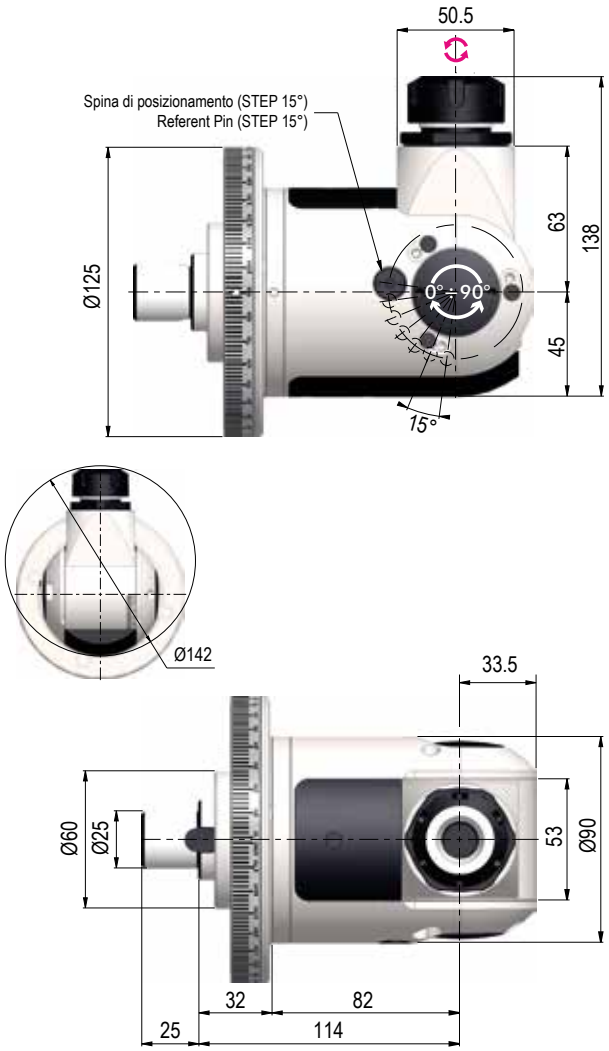
USCITA
OUTPUT
C6 | C8
on request

GMU-16

TYPE 1

Code: 9.GMU.16001

Price:





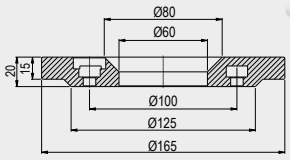
Dati tecnici - Technical data

Ratio 1:1	Kg 6,3
Rpm 4.000	Ø16
N 480	M14
Nm 18	ER-25 Ø1/16

SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

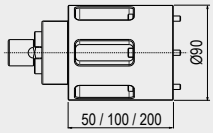
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono std - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø16
optional

USCITA
OUTPUT
Weldon Max Ø16
optional

SPINA POSIZIONE RAPIDA
QUICK POSITIONING PIN
Angolazioni personalizzate
Customized angles
optional

1

GMU-20

TYPE 2

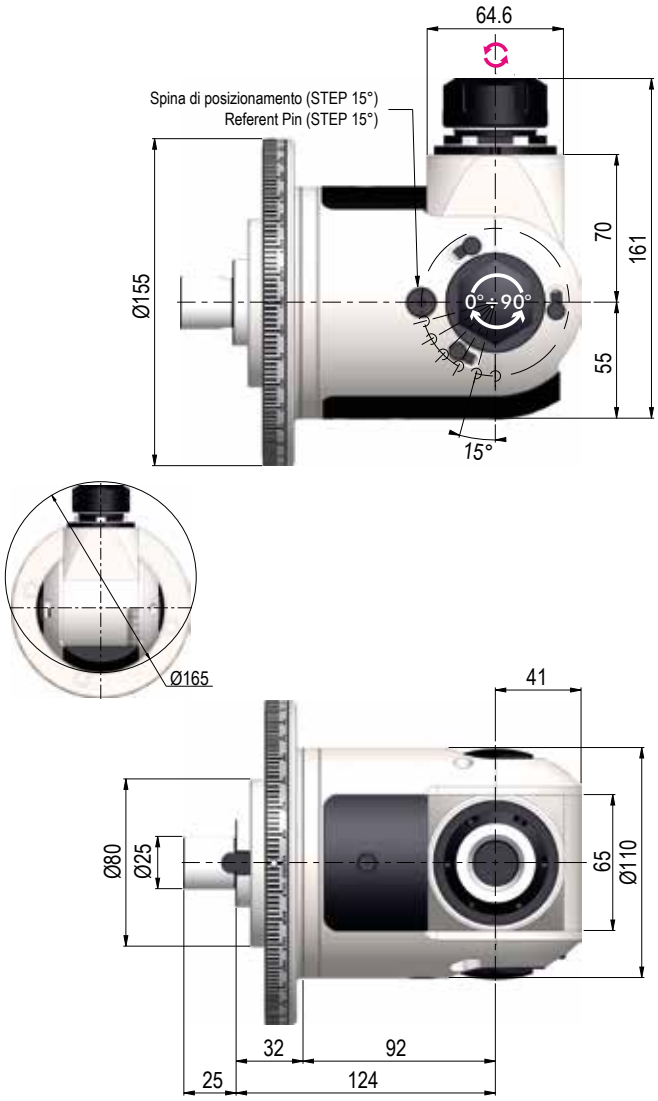
Code: 9.GMU.20001

Price:



Dati tecnici - Technical data

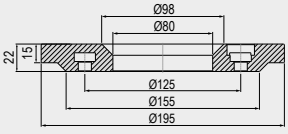
- Ratio 1:1
- Kg 13
- Rpm 4.000
- Ø20
- N 715
- M16
- Nm 32
- ER32 Ø2/20



SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

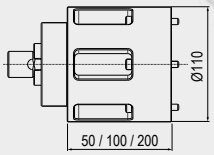
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 2





Prolunga
Extension
TIPO - TYPE 2





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

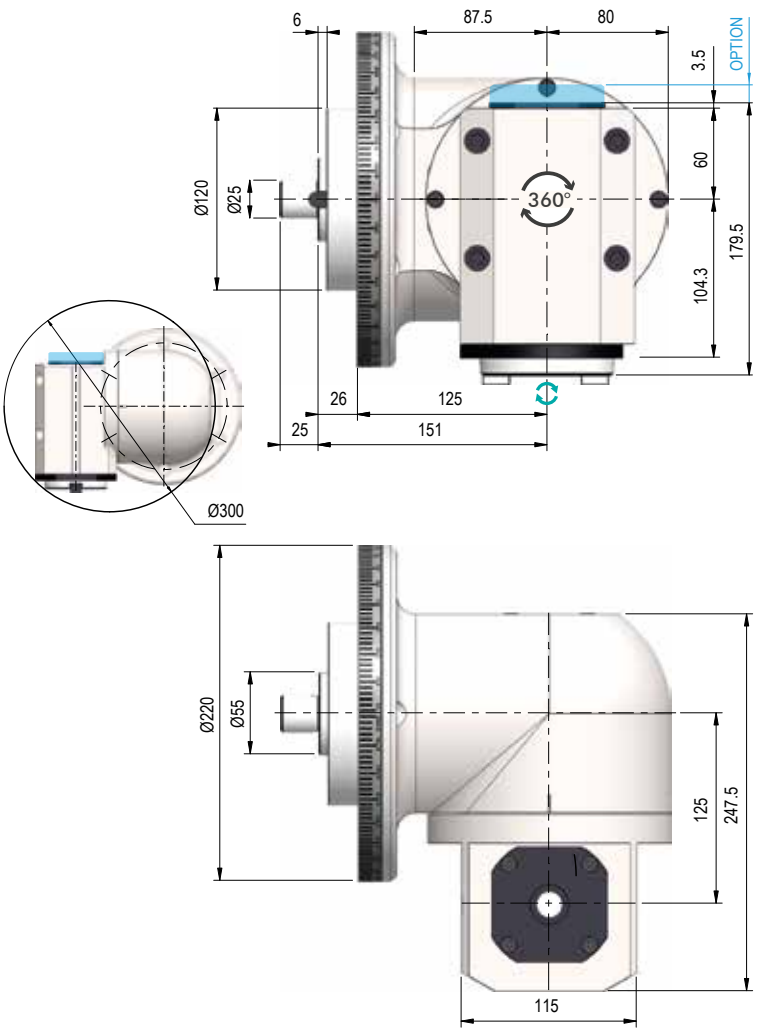
SPINA POSIZIONE RAPIDA
QUICK POSITIONING PIN
Angolazioni personalizzate
Customized angles
optional

USCITA
OUTPUT
Weldon Max Ø20
optional

GMU-S40-125 TYPE 6

Code: 9.GMU.S4001.125

Price:





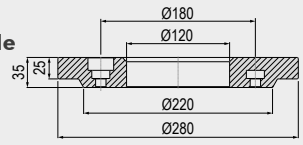
Dati tecnici - Technical data

- Ratio 1:1
- Kg 59,3
- Rpm 3.000
- Ø30
- N 2.400
- M22
- Nm 100
- ISO /CAT BT 40

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 6





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
4.000 Rpm
optional

USCITA
OUTPUT
HSK 63
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR
DRY RUNNING POSSIBLE
Max 10 bar
optional

USCITA
OUTPUT
C4
optional

1

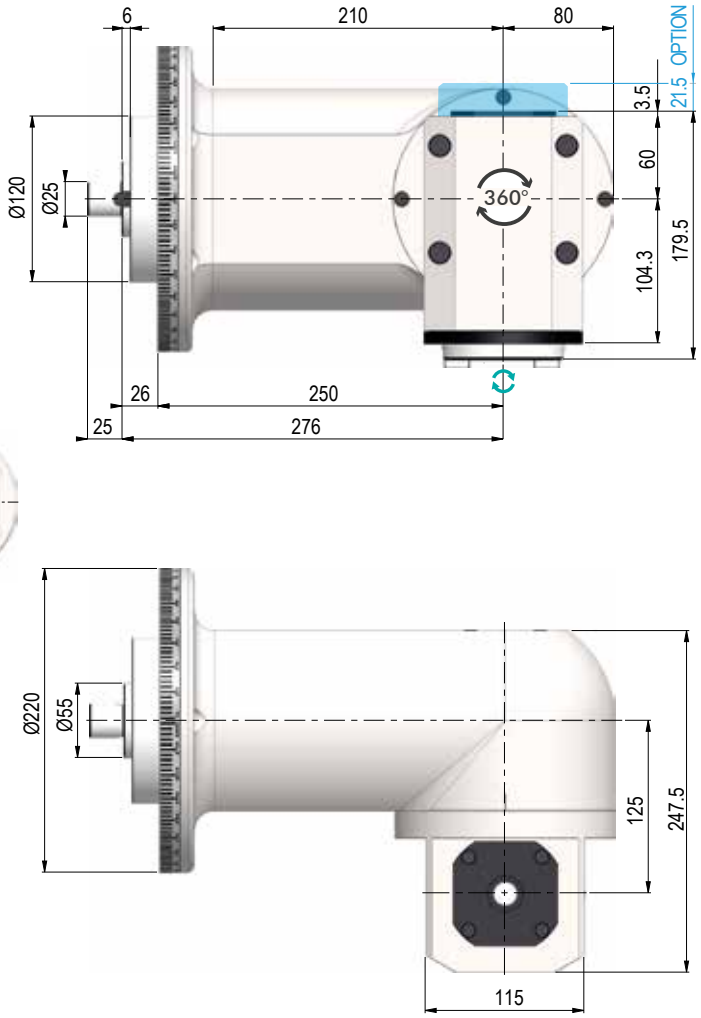
GMU-S40

TYPE 5

Code: 9.GMU.S4001

Price:





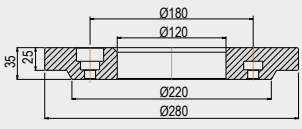
Dati tecnici - Technical data

- Ratio 1:1
- Kg 49,5
- Rpm 3.000
- Ø 30
- N 2.400
- M 22
- Nm 100
- ISO /CAT BT 40

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional		opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 5





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
4.000 Rpm
optional

USCITA
OUTPUT
HSK 63
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR
DRY RUNNING POSSIBLE
Max 10 bar
optional

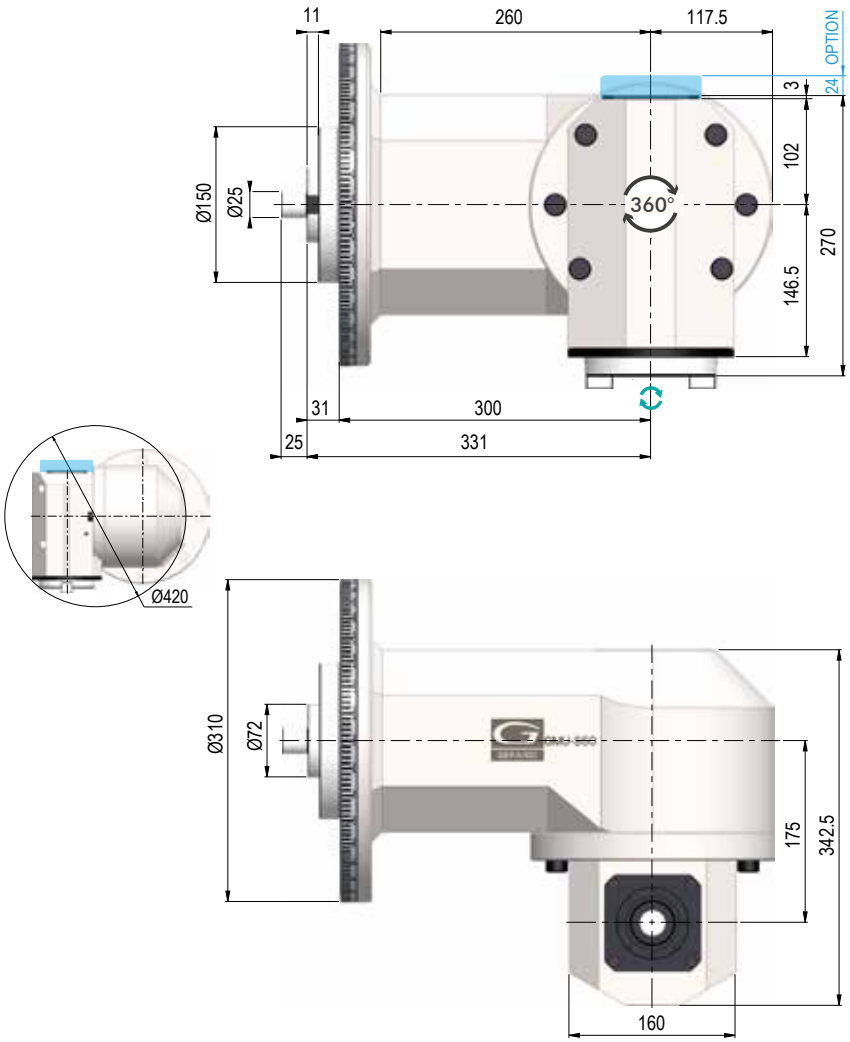
USCITA
OUTPUT
C4
optional

GMU-S50

TYPE 6

Code: 9.GMU.S5001

Price:





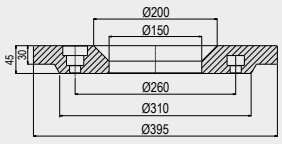
Dati tecnici - Technical data

Ratio 1:1	Kg 121
Rpm 3.000	Ø45
N 3.300	M36
Nm 220	ISO /CAT BT 50

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 6





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
4.000 Rpm
optional

USCITA
OUTPUT
HSK 63
optional

REFR. DAL DISTRIBUTORE
COOLANT THROUGH ROTATING DISTRIBUTOR
DRY RUNNING POSSIBLE
Max 10 bar
optional

USCITA
OUTPUT
C6
optional

1

G90-16 2U

TYPE 1

Code: 9.G90.162U01

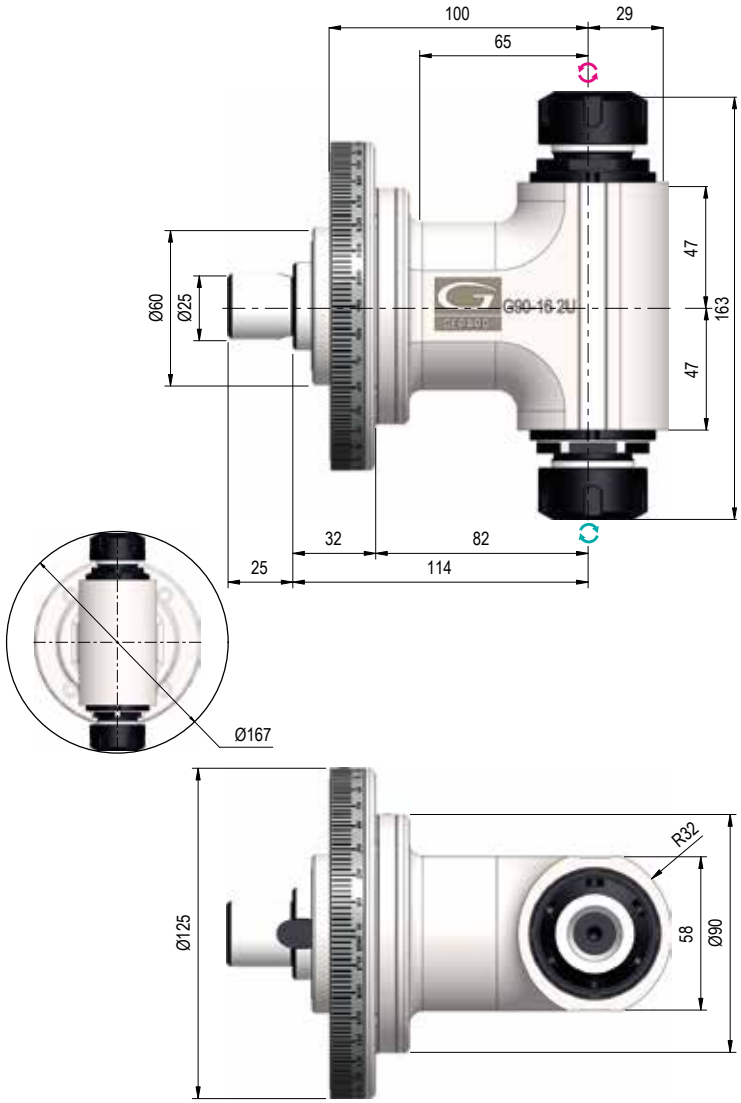
Price:

NEW



Dati tecnici - Technical data

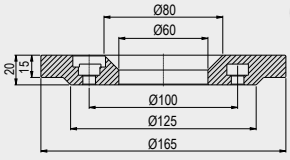
- Ratio 1:1
- Kg 5,6
- Rpm 4.000
- Ø 16
- N 510
- M 12
- Nm 24
- ER-25 Ø1/16



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

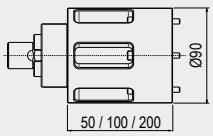
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
optional

USCITA
OUTPUT
HSK 32 (X2)
-

USCITA
OUTPUT
Weldon Max Ø16 (X2)
optional

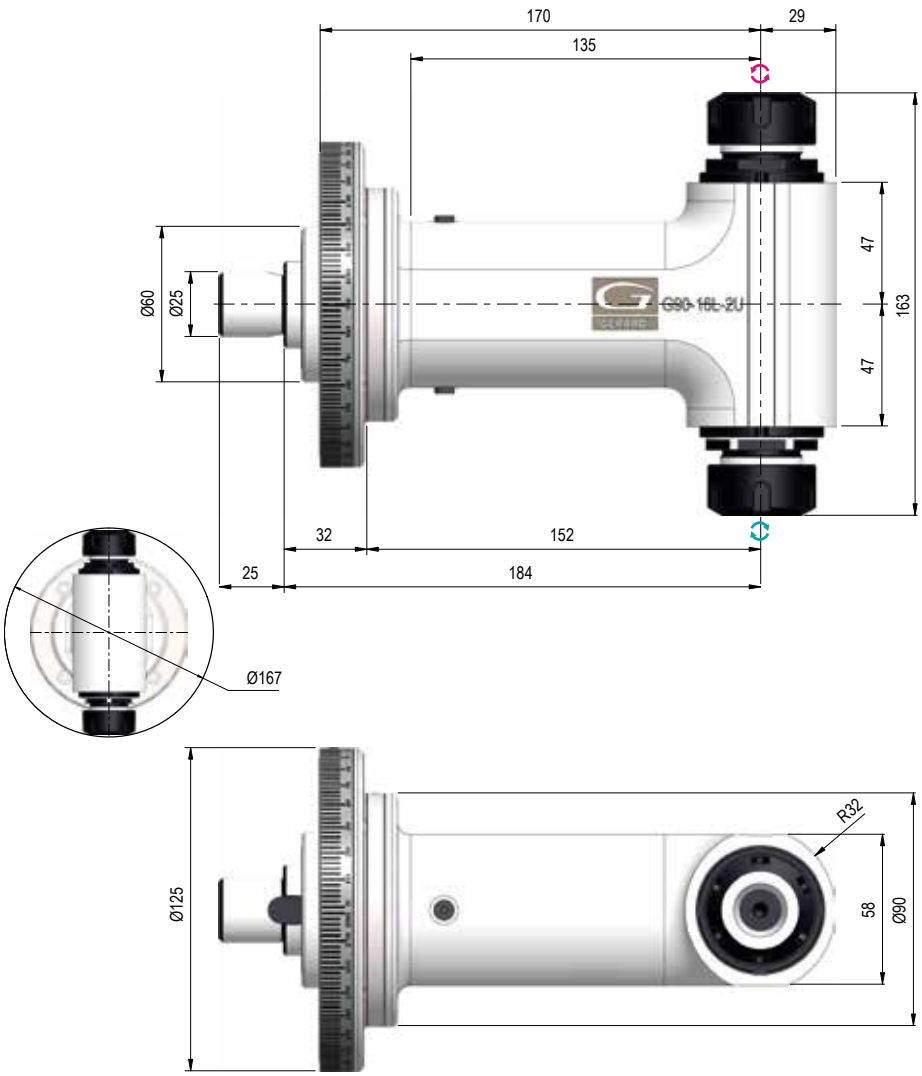
USCITA
OUTPUT
Portafresa
Toolholder Ø16 (X2)
optional

G90-16L 2U

TYPE 1

Code: 9.G90.16L2U1

Price:





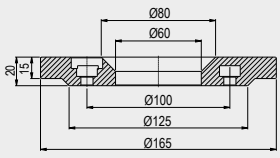
Dati tecnici - Technical data

Ratio 1:1	Kg 6,1
Rpm 4.000	Ø 16
N 510	M 12
Nm 24	ER-25 Ø1/16

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

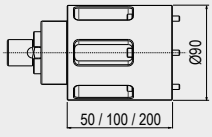
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 1





Prolunga
Extension
TIPO - TYPE 1





Dotazione Standard
Standard Equipment

Valigetta - Flangia universale - Ghiera ER - Cono std - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
8.000 Rpm
optional

USCITA
OUTPUT
HSK 32 (X2)
-

USCITA
OUTPUT
Weldon Max Ø16 (X2)
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø16 (X2)
optional

1

G90-20 2U

TYPE 2

Code: 9.G90.202U01

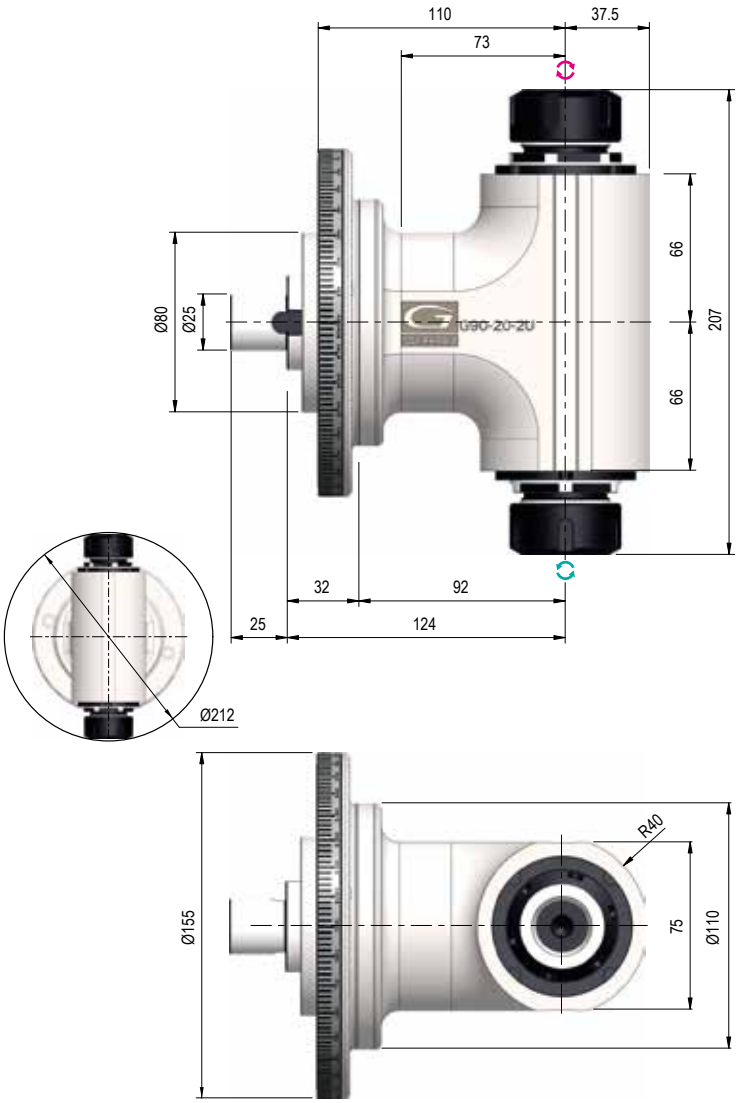
Price:

NEW



Dati tecnici - Technical data

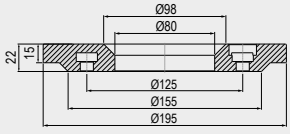
- Ratio 1:1
- Kg 14
- Rpm 4.000
- Ø 20
- N 1.250
- M 16
- Nm 40
- ER-32 Ø2/20



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

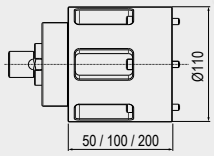
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 2





Prolunga
Extension
TIPO - TYPE 2





Dotazione Standard
Standard Equipment

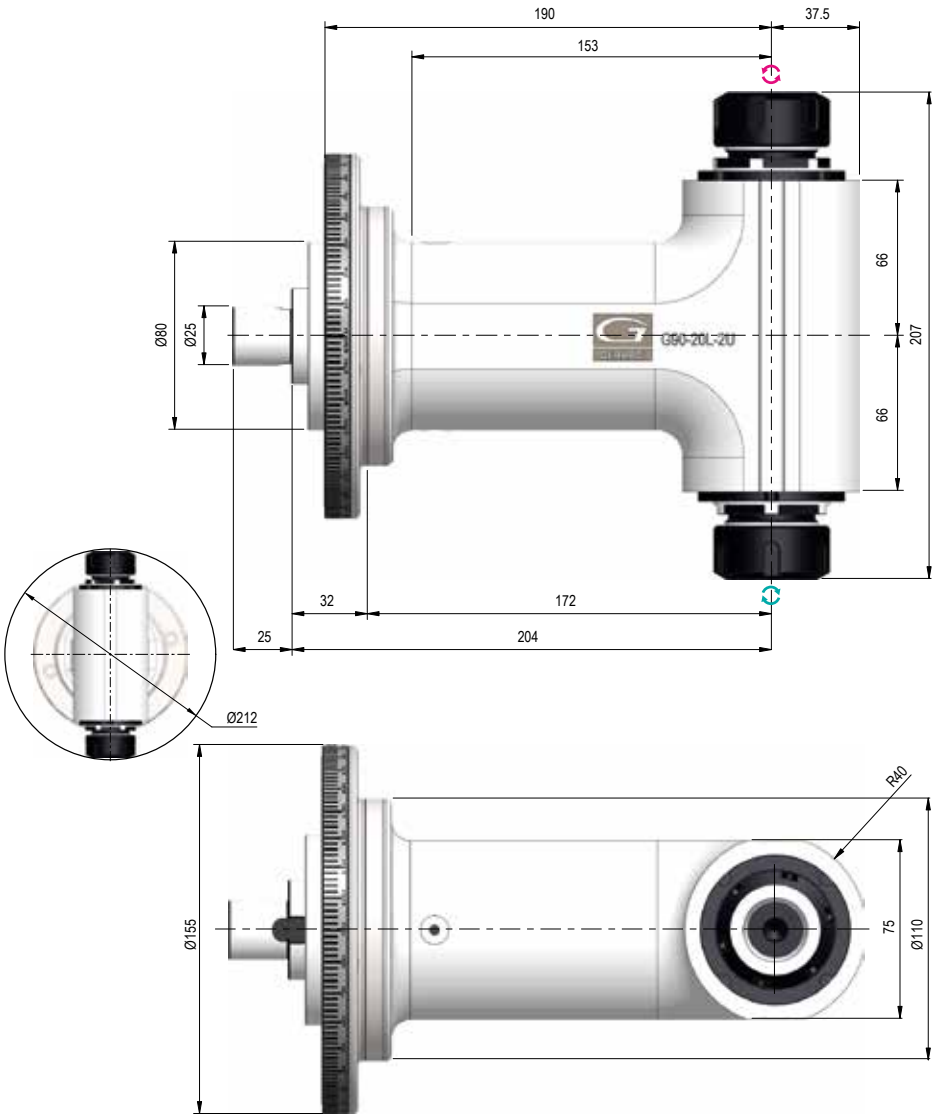
Valigetta - Flangia universale - Ghiera ER - Cono - Chiavi di servizio - Tubetto di grasso - Libro istruzioni
Special bag - Universal flange - ER nut - Shank - Wrenches - Grease tube - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ HIGH SPEED 6.000 Rpm optional	USCITA OUTPUT HSK 40 (X2) optional
USCITA OUTPUT Weldon Max Ø20 (X2) optional	USCITA OUTPUT Portafresa Toolholder Ø20 (X2) optional



G90-20L 2U

TYPE 2

Code: 9.G90.20L2U1

Price:

1

NEW



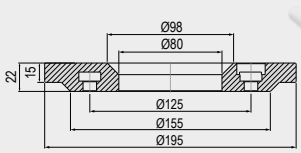
Dati tecnici - Technical data

- Ratio 1:1
- Kg 15,5
- Rpm 4.000
- Ø 20
- N 1.250
- M 16
- Nm 40
- ER-32 Ø2/20

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

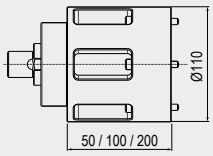
Coni Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 2





Prolunga
Extension
TIPO - TYPE 2





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
HSK 40 (X2)
optional

USCITA
OUTPUT
Weldon Max Ø20 (X2)
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø22 (X2)
optional

1

G90-30 2U

TYPE 3

Code: 9.G90.302U01

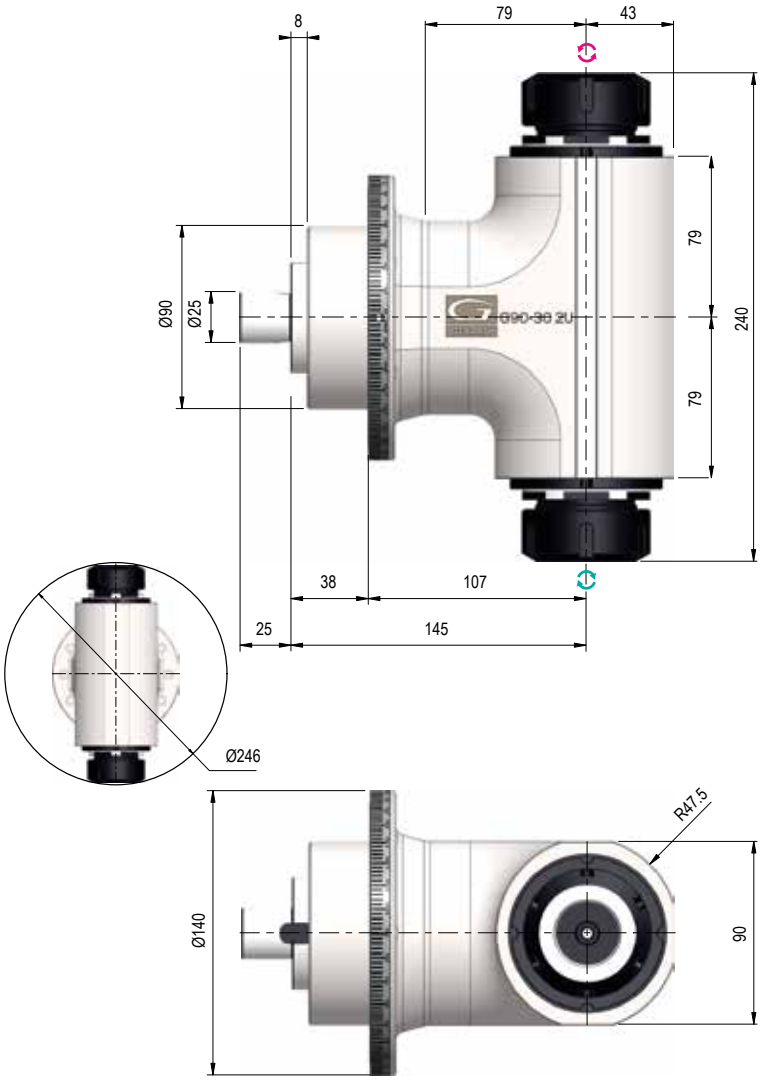
Price:

NEW



Dati tecnici - Technical data

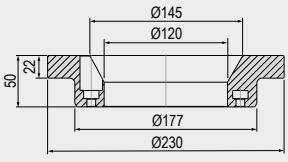
- Ratio 1:1
- Kg 20
- Rpm 4.000
- Ø 30
- N 1.750
- M 20
- Nm 75
- ER-40 Ø3/30



SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

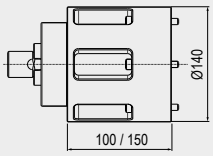
Coni Shanks	SK DIN 69871			CAT ANSI B5.50			BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	30	40	50	30	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	opt.	std	std	opt.	std	std	opt.	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 3





Prolunga
Extension
TIPO - TYPE 2





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
HSK 40 (X2)
optional

USCITA
OUTPUT
Weldon Max Ø25 (X2)
optional

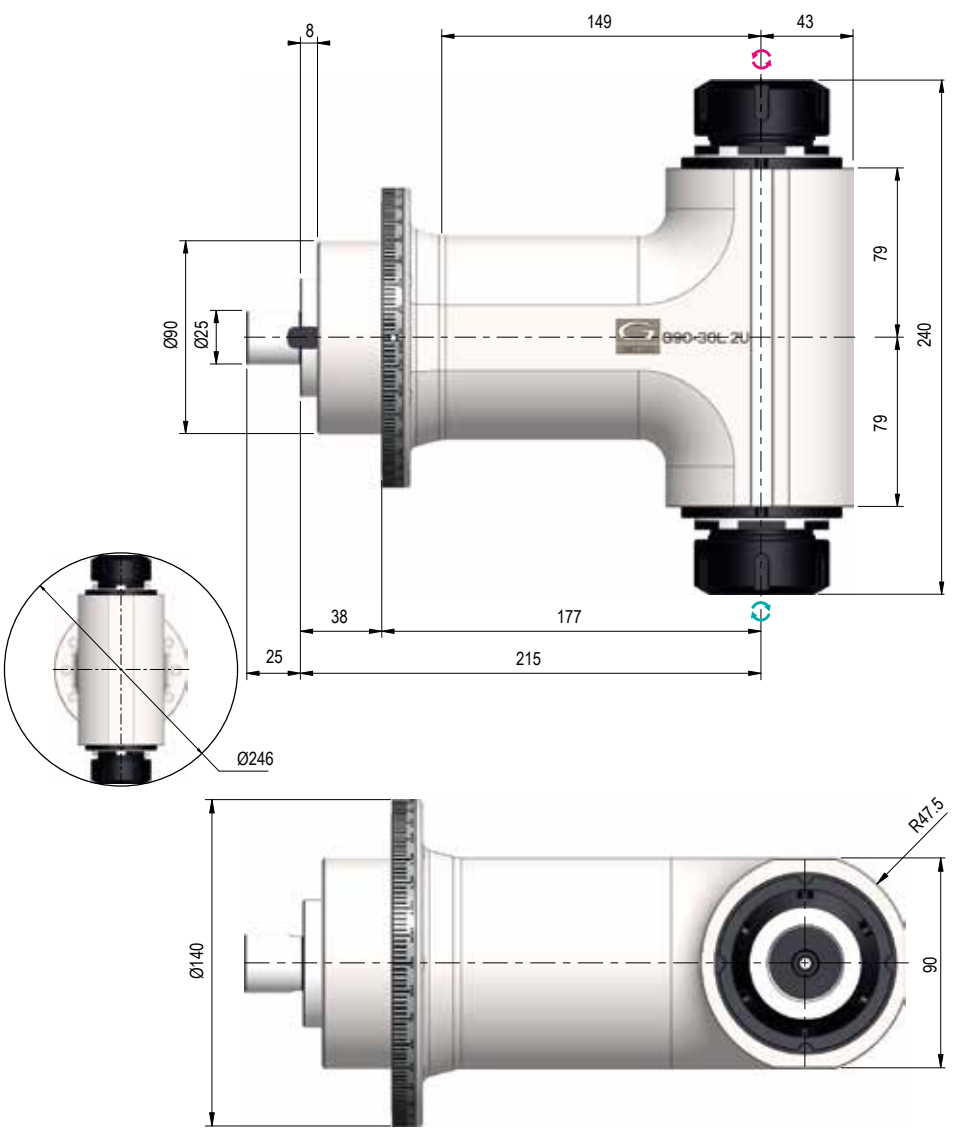
USCITA
OUTPUT
Portafresa
Toolholder Ø27 (X2)
optional

G90-30L 2U

TYPE 3

Code: 9.G90.30L2U1

Price:





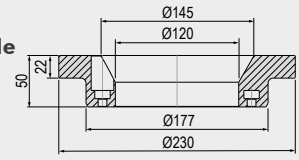
Dati tecnici - Technical data

Ratio 1:1	Kg 23
Rpm 4.000	Ø 30
N 1.750	M 20
Nm 75	ER-40 Ø3/30

SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

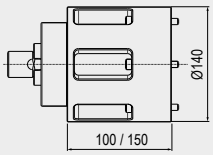
Coni Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional			opt.	opt.

Flangia Universale
Universal Flange
TIPO - TYPE 3





Prolunga
Extension
TIPO - TYPE 2





Dotazione Standard
Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER - Cono - Chiavi di servizio -Tubetto di grasso - Libro istruzioni
Wood box - Universal flange - ER nut - Wrenches - Grease tube- Shank - Instruction book

IMBALLO & PESO
PACK & WEIGHT: Max. Kg



Opzioni - Options

ALTA VELOCITÀ
HIGH SPEED
6.000 Rpm
optional

USCITA
OUTPUT
HSK 40 (X2)
optional

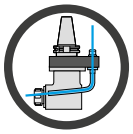
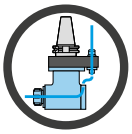
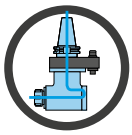
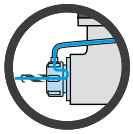
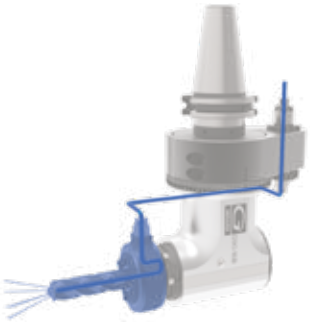
USCITA
OUTPUT
Weldon Max Ø25 (X2)
optional

USCITA
OUTPUT
Portafresa
Toolholder Ø27 (X2)
optional

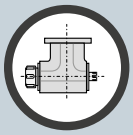
ACCESSORI ATC & MTC
ATC & MTC ACCESSORIES



OPZIONE REFRIGERANTE INTERNO
INTERNAL COOLANT OPTION

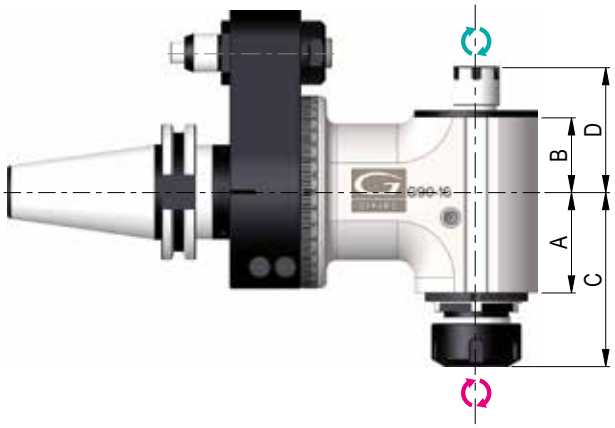
	Opzione B B option	Opzione RI RI option	Opzione Re-Cool Re-Cool option
 **10bar**	 **10bar**	 **UP TO 70bar**	 **10bar**
			
Perno » Utensile Positioning Pin » Tool	**Perno » Distributore » Utensile** Positioning Pin » Rotating Distributor » Tool	**Cono » Distributore » Utensile** Shank » Rotating Distributor » Tool	**Perno » Ghiera ReCool » Utensile** Positioning Pin » ReCool Nut » Tool
Passaggio refrigerante esterno all'utensile 10bar External coolant 10bar through the tool	**Passaggio refrigerante interno all'utensile 10bar dal perno attraverso distributore rotante** Internal coolant 10bar through the tool from positioning pin and through rotating distributor	**Passaggio refrigerante interno all'utensile da 30 a 70 bar dal cono e attraverso il distributore rotante** Internal coolant through the tool from 30 to 70 bar from the shank and through the rotating distributor	**Passaggio refrigerante interno l'utensile per mezzo della ghiera ReCool.** Internal coolant through the tool from the special nut ReCool
ROTAZIONE A SECCO - DRY RUNNING **POSSIBILE** - POSSIBLE	**ROTAZIONE A SECCO -** DRY RUNNING **POSSIBILE** - POSSIBLE	**ROTAZIONE A SECCO -** DRY RUNNING **NON POSSIBILE** - NOT POSSIBLE	**PAG. 1.77 -** PAG. 1.77

OPZIONE DOPPIA USCITA
DOUBLE OUTPUT OPTION



Disponibile per i modelli - Available for following types:

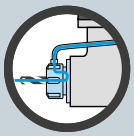
MODELLO MODEL	USCITA OUTPUT	A	B	C	D
GL90-7 G90-5 / G90-7 / G90-7L	ER-11 ER-8 MINI	20	20	38	34
GL90-10 G90-10 / G90-10L	ER-16 ER-11 MINI	37	28	52	44,5
GL90-16 G90-16 / G90-16L	ER-25 ER-16 MINI	47	35	81,5	58,5
G90-20 / G90-20L	ER-32 ER-20 MINI	66	46	103,5	72,5
G90-30 / G90-30L	ER-40 ER-25 MINI	79	53	120	82

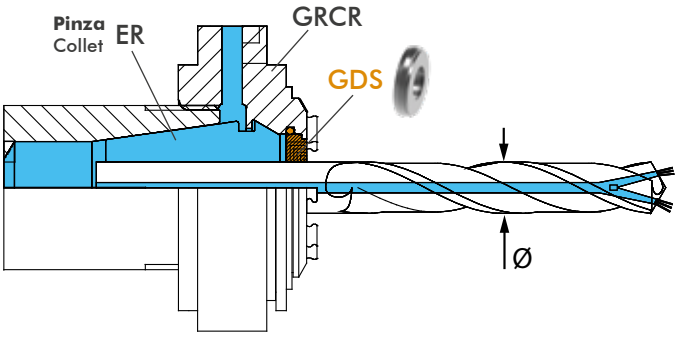


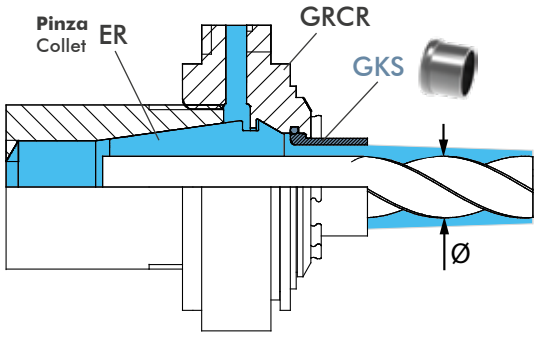
Teste angolari ATC doppia uscita
Double output ATC angle heads

GHIERE ER ReCool
ReCool ER NUTS

Con queste ghiere speciali è possibile ottenere il passaggio refrigerante tramite utensile anche su teste che non prevedono questa opzione.
With these special nuts it is possible to get coolant through the tool even on angle heads which do not have this option.









GRCR
(**Ghiera** / Nut)



GDS
(**Disco di tenuta** / Sealing ring)



GKS
(**Disco di tenuta** / Sealing ring)



AX (EXTRA)

MODELLO TESTA ANGOLARE ANGLE HEADS TYPE	**Pinza** Collet	**Ghiera** Nut / Code
G90-10 / 10L GL90-10 /	ER16	GRCR16 / 9.GR.CR16
GMU-13	ER20	GRCR20 / 9.GR.CR20
G90-16 / 16L GL90-16 / GMU-16	ER25	GRCR25 / 9.GR.CR25
G90-20 / 20L GMU-20	ER32	GRCR32 / 9.GR.CR32
G90-S40	ER40	GRCR40 / 9.GR.CR40

Disco di tenuta per refr.interno Sealing ring for int. coolant — Code
GDS16
9.GD.S16/...
GDS20
9.GD.S20/...
GDS 25
9.GD.S25/...
GDS32
9.GD.S32/...
GDS40
9.GD.S40/...

Disco di tenuta per refr. esterno Sealing ring for est. coolant — Code
GKS16
9.GK.S16/...
GKS20
9.GK.S20
GKS 25
9.GK.S25
GKS32
9.GK.S32

Chiavi Wrenches — Code
CH-16AX
9.CH.16AX
CH-20AX
9.CH.20AX
CH-25AX
9.CH.25AX
CH-32AX
9.CH.32AX
CH-40AX
9.CH.40AX

INDICARE SEMPRE IN FASE D'ORDINE Ø UTENSILE - IN CASE OF ORDER SPECIFY THE Ø TOOL

■ **ER: Pinza ER** / ER Collet ■ **GRCR:** Ghiera / Nut ■ **GDS: Disco di tenuta** / Sealing ring ■ **GKS: Disco di tenuta** / Sealing ring

Dotazione Standard
Standard Equipment





1 - Ghiera con anello esterno
Clamping nut with outer ring.
2 - Tubo refrigerante con protezione Ø6mm, 400mm
Coolant pipe with protector Ø6mm, 400mm
3 - Raccordi dritti da 1/8"
Fitting 1/8" straight
4 - Raccordi a 90° da 1/8"
Fitting 1/8" 90° elbow

Tipo di ghiera Nut type	≤3000 Rpm	≤6000 Rpm	≤9000 Rpm	≤12000 Rpm
GRCR16	5 bar	7,5 bar	10 bar	15 bar
GRCR20	5 bar	7,5 bar	10 bar	15 bar
GRCR25	5 bar	7,5 bar	10 bar	15 bar
GRCR32	5 bar	10 bar	15 bar	20 bar
GRCR40	5 bar	10 bar	-	-

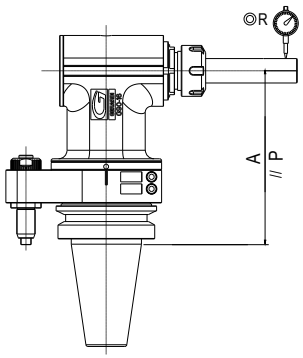
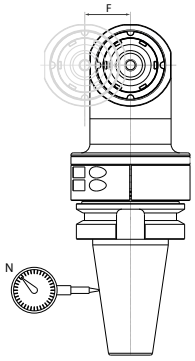
Il tubo e gli accessori in dotazione sono progettati e testati per la pressione massima del refrigerante di 58 bar / 840 PSI.
Maggiore pressione del refrigerante su richiesta.

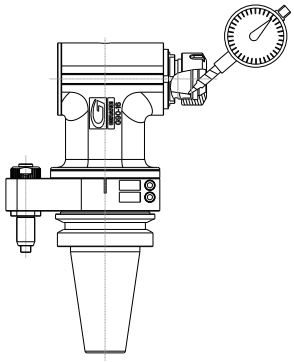
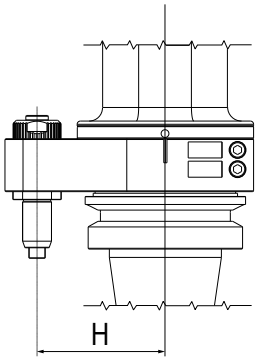
The supplied hose and fittings are designed and tested for maximum coolant pressure of 58 bar / 840 PSI.
Higher coolant pressure on request.

Esempio di ordine Ghiera:GRCR16 (Cod. 9.GR.CR16) - Disco tenuta: GDS16-Ø10 (Cod. 9.GD.S16/10)
Example of order Nut: GRCR16 (Code 9.GR.CR16) - Sealing ring: GDS16-Ø10 (Code 9.GD.S16/10)

ESEMPIO SCHEDA DI COLLAUDO
INSPECTION SHEET EXAMPLE

Tipo - Type	G90-16 ATC
Codice - Code	9.G90.16000
Numero seriale - Serial number	18-011
Attacco cono - Input shank	CAT50 - H=80
Note speciali - Special notes	

TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error
Quota e parallelismo da filo cono ad asse principale. Oscillazione asse utensile. Height and parallelism from gauge line to main axis. Runout cutter axis.		**Ammesso** Allowed A= ±0,03 R=±0,025 P=±0,015/100 **Rilevato** Checked A = +0,010 R = 0,015 P = 0,012/100
Concentricità tra cono e asse principale. Disassamento tra gli assi principali. Concentricity beetween shank and main axis. offset beetween main axis		**Ammesso** Allowed F= ±0,02 N=±0,02 **Rilevato** Checked F = 0,010 N = 0,016

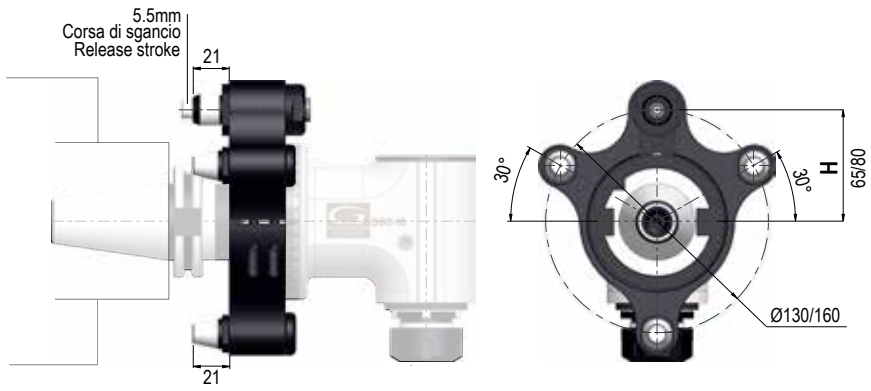
TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error
Oscillazione mandrino porta utensile. Runout in cutter spindle.		**Ammesso** Allowed 0,010 **Rilevato** Checked 0,008
Interasse cono-perno di posizionamento. Pitch shank-positioning pin.		**Ammesso** Allowed 0,010 **Rilevato** Checked -0,010

RODAGGIO TESTA - RUN-IN

RPM in entrata RPM	Durata Time	Temperatura Ambiente Room Temperature	Temperaratura Sonda Sensor Temperature	Note Notes
1000	00:10:00	22°	27°	
2000	00:10:00		32°	
3000	00:05:00		36°	
4000	00:05:00		42°	
5000				
6000				

Revisioni - Revisions	**Timbro** - Stamp	**Data** - Date
		Firma - Signature

SISTEMA ANTIROTANTE MULTIPOINT
MULTIPOINT ANTIROTATION SYSTEM



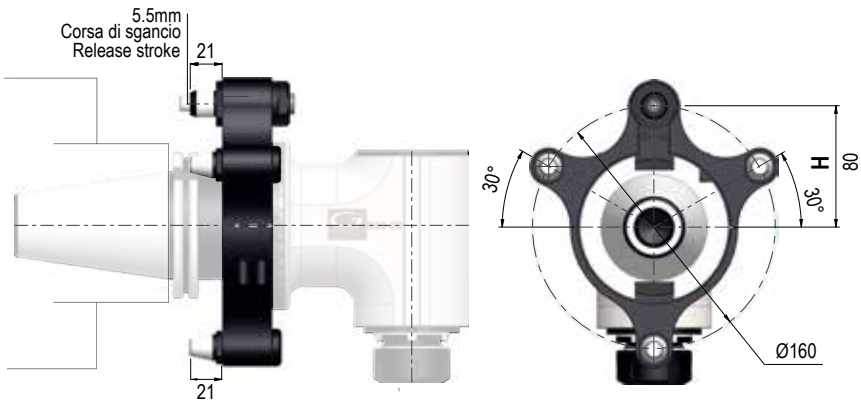
TYPE 1

Code 9.G90.16T00/...*

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

Prezzo Extra €	
Extra Price €	
Solo flangia	*A richiesta*
Only flange**	*On request*

**In caso di acquisto contestuale alla testa angolare
In case of purchase together with angle head



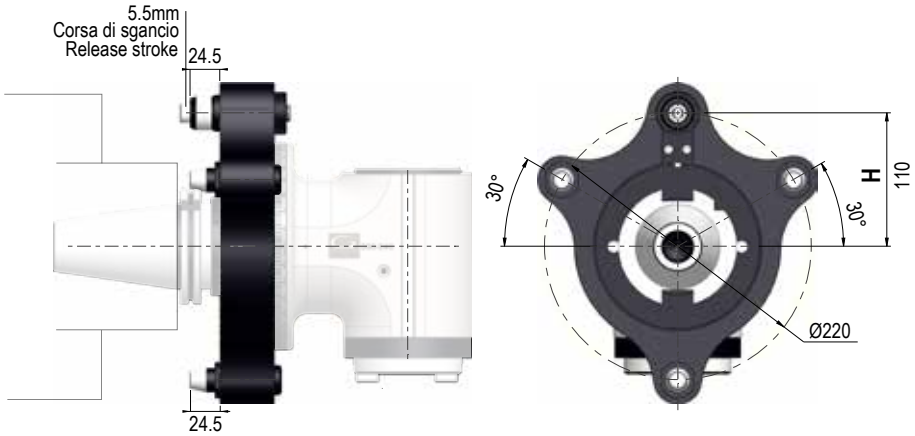
TYPE 2

Code 9.G90.20T00/...*

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

Prezzo Extra €	
Extra Price €	
Solo flangia	*A richiesta*
Only flange**	*On request*

**In caso di acquisto contestuale alla testa angolare
In case of purchase together with angle head



TYPE 3/4

Code 9.G90.30T00/...*
Code 9.G90.S40T0/...*

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

Prezzo Extra €	
Extra Price €	
Solo flangia	*A richiesta*
Only flange**	*On request*

**In caso di acquisto contestuale alla testa angolare
In case of purchase together with angle head



Il sistema antirotante MULTIPOINT è composto da 4 punti d'appoggio di cui uno standard e tre supplementari ed è stato studiato per i seguenti motivi:
- Garantire una rigidità superiore allo standard
- Poter eseguire lavorazioni pesanti
- Annullare ogni tipo di vibrazione
- Applicabile ad ogni tipo di mandrino macchina

The anti-rotation MULTIPOINT system is made of 4 brace points (one standard and 3 additional) for:
-Granting a higher than standard rigidity
-Allowing heavy duty machining
-Avoiding any type of vibration
-Mounting on any type of machine spindle



* **In fase di ordine specificare tipo di cono e grandezza**
In fase di ordine specificare tipo di cono e grandezza

ESEMPIO di MONTAGGIO SERIES ATC
ATC SERIES MOUNTING EXAMPLE

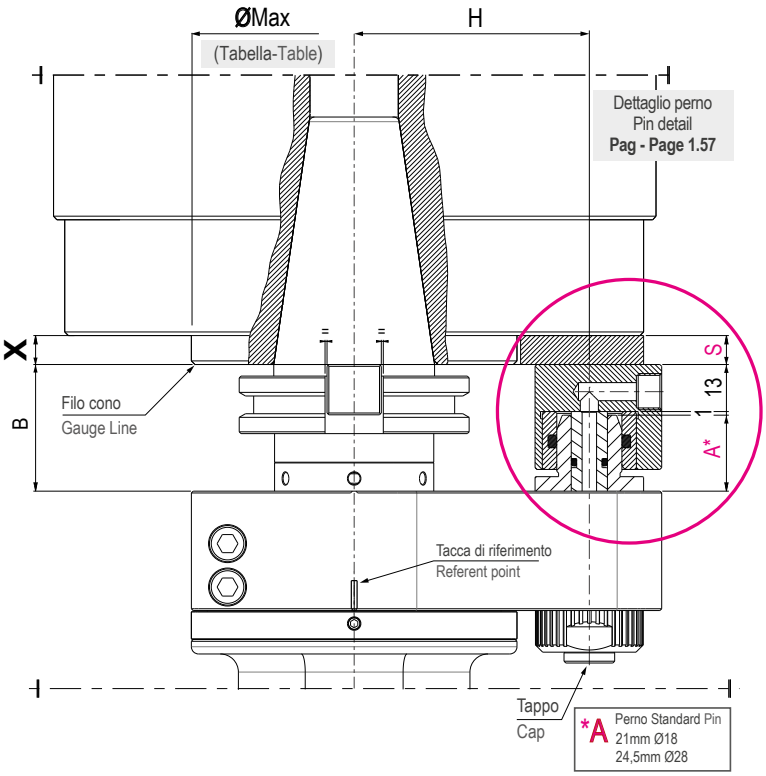
PER UN CORRETTO ORDINE VERIFICARE L'IDONEITÀ DEL PERNO DI POSIZIONAMENTO
FOR A RIGHT PURCHASE ORDER CHECK THE POSITIONING PIN SUITABILITY

1) STOP-BLOCK GIÀ PRESENTE SUL MANDRINO MACCHINA

- Per Stop-block Gerardi è sufficiente indicare il tipo di testa, interasse H, diametro perno ed altezza perno
- In caso di Stop-block NON Gerardi, inviateci il disegno del suddetto e del mandrino macchina per determinare il perno. Se possibile si consiglia di smontare lo stop block presente e di utilizzare il nostro standard.

STOP-BLOCK ALREADY MOUNTED ON THE MACHINE SPINDLE

- For Gerardi items, please indicate the type of Angle Head, the H dimension, the pin diameter and height.
- For non-Gerardi items, please send us the stop-block and the machine spindle drawings in order to design the right pin. If possible, we suggest you to use Gerardi standard stop block, taking off the one already placed on the machine.



2) NESSUNO STOP-BLOCK MONTATO SUL MANDRINO MACCHINA

Rilevare la quota X sul mandrino della macchina e mediante la seguente formula calcolare lo spessore del distanziale. In caso di spessori inferiori a 8 mm è possibile richiedere un apposito stop-block con base lavorabile (Pag. 3.25)

NO STOP-BLOCK MOUNTED ON THE MACHINE SPINDLE

Please check the X dimension on the machine spindle and calculate the width of the spacer through the following formula. In case of widths of less than 8 mm, a special stop block with machineable base can be ordered (Pag. 1.83)

S=X+B-35

Se sei in possesso di una testa angolare con perno Ø18
If you have an Angle Head with pin Ø18

S=X+B-38,5

Se sei in possesso di una testa angolare con perno Ø28
If you have an Angle Head with pin Ø28

X	B
12mm	35mm (SK40)
S= X (12) + B (35) - 35 = 12	

Esempio di calcolo spessore distanziale
Example of calculation for spacer thickness

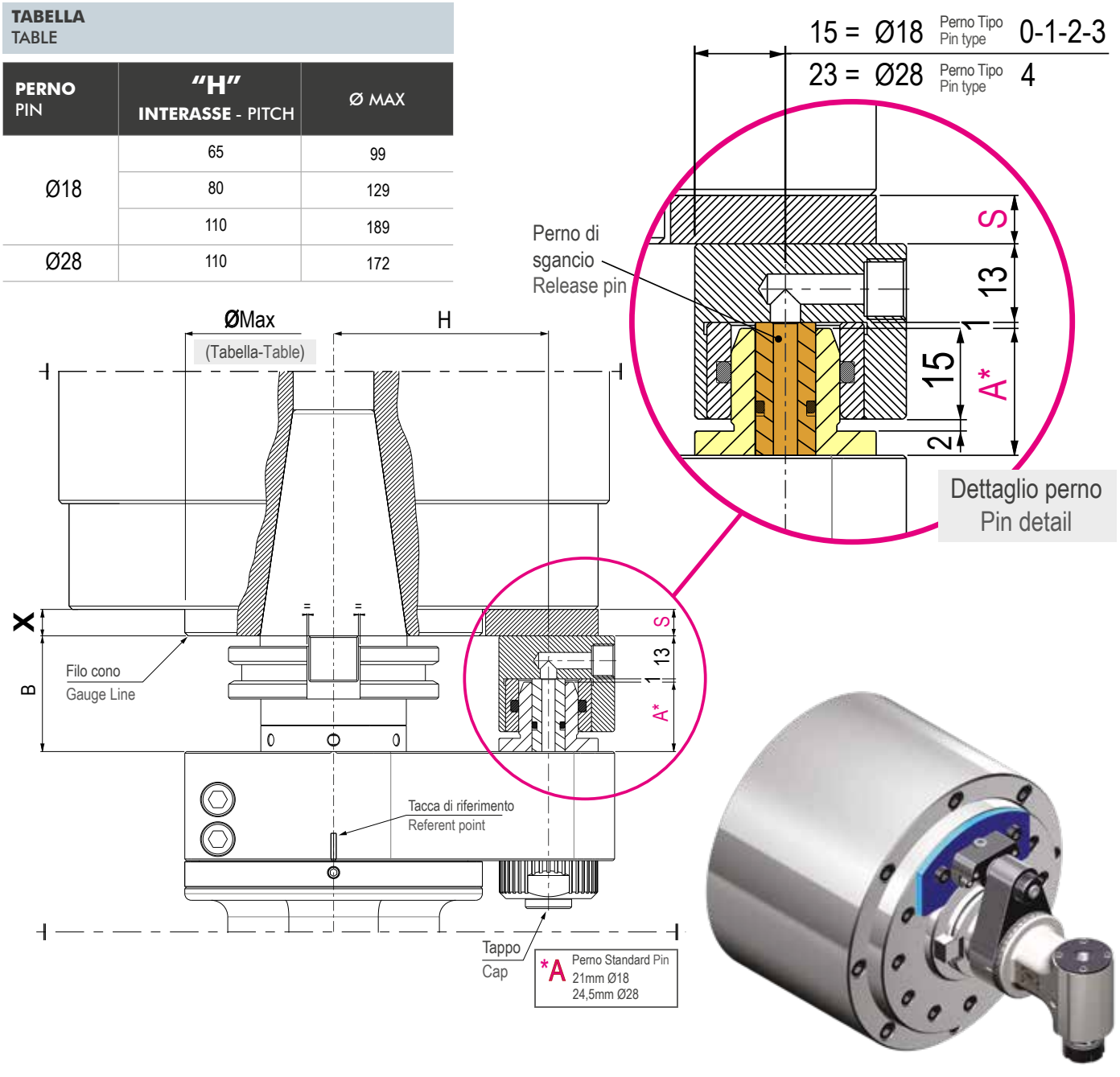
ESEMPIO di MONTAGGIO SERIE ATC
ATC SERIES MOUNTING EXAMPLE

PER UN CORRETTO ORDINE VERIFICARE L'IDONEITA' DELL'INTERASSE "H"
FOR A RIGHT PURCHASE ORDER CHECK PITCH "H" SUITABILITY

Verificare l'idoneità dell'interasse "H" tramite tabella - Check pitch "H" through table

TABELLA
TABLE

PERNO PIN	**"H" INTERASSE** - PITCH	Ø MAX
Ø18	65	99
	80	129
	110	189
Ø28	110	172



ATTENZIONE - ATTENTION

Il distanziale per il posizionamento dello stop-block, deve essere realizzato di uno spessore tale da comprimere il perno di sgancio NON per l'intera corsa, ma in modo da lasciare sempre 1mm di gioco.
I calcoli della pagina precedente sono già fatti in tal senso.

The spacer for the stop-block must be done in order to push the release pin NOT for the whole stroke release, but leaving always 1mm play. Previous page calculations are already considering this issue.

1

STOP-BLOCK Standard

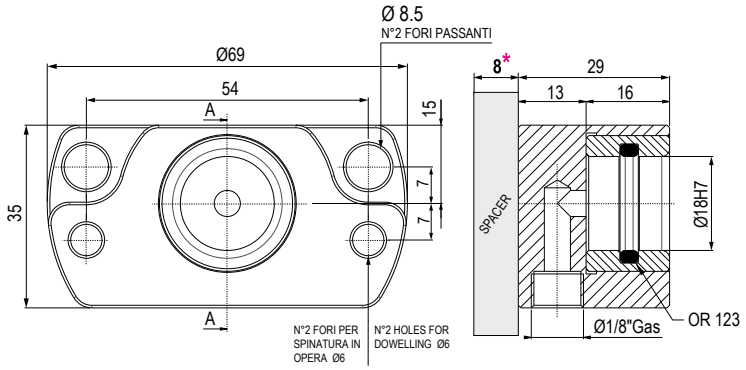
Ø18



Con bussola temprata - with hardened bushing

STOP BLOCK Code	
9.INDEX.18	
NO STOP BLOCK INCLUDED	

BUSHING Code	
9.G18.INDEX.2	



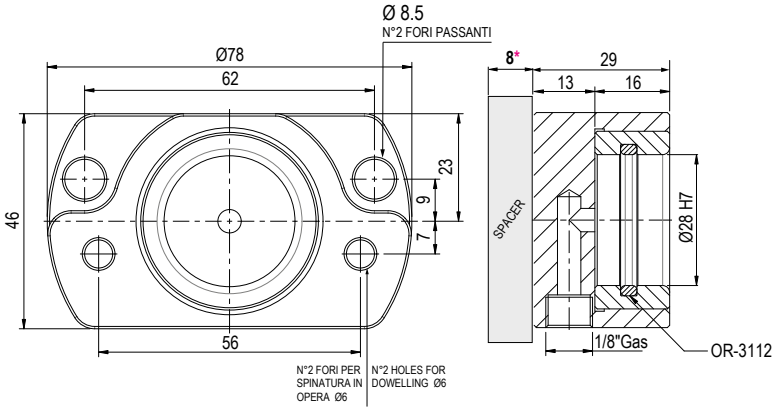
Ø28



Con bussola temprata - with hardened bushing

STOP BLOCK Code	
9.INDEX.28	
NO STOP BLOCK INCLUDED	

BUSHING Code	
9.G28.INDEX.2	



STOP-BLOCK Conico - Conical

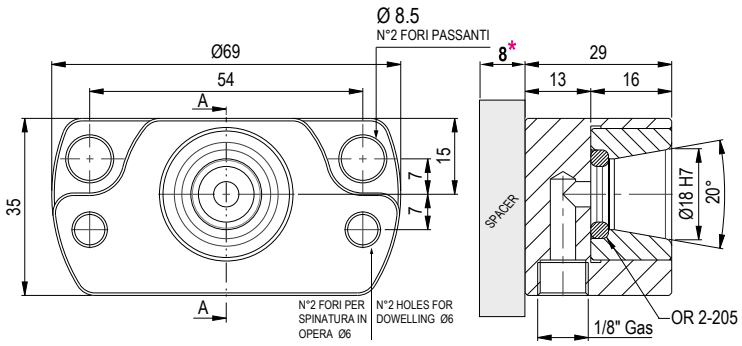
Ø18



Con bussola temprata - with hardened bushing

STOP BLOCK Code	
9.INDEX.18C	
NO STOP BLOCK INCLUDED	

BUSHING Code	
9.G18.INDEX.2C	



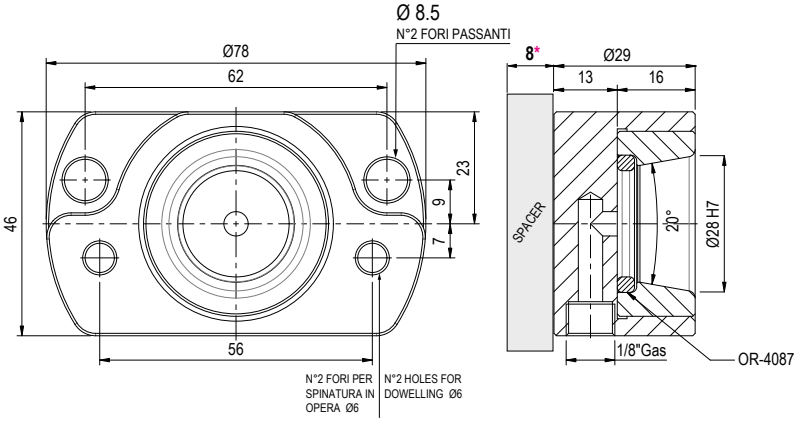
Ø28



Con bussola temprata - with hardened bushing

STOP BLOCK Code	
9.INDEX.28C	
NO STOP BLOCK INCLUDED	

BUSHING Code	
9.G18.INDEX.2C	



* **Misura minima per distanziale sotto la quale è necessario utilizzare lo stop-block lavorabile**
* Specer minimum dimension under this dimension it is necessary to use the machineable stop-block

STOP-BLOCK Lavorabile** - Machineable**

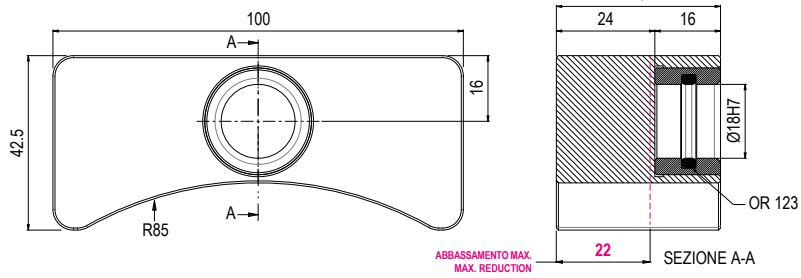
Ø18



Con bussola temprata - with hardened bushing

STOP BLOCK Code	
9.G18.INDEX	
NO STOP BLOCK INCLUDED	

BUSHING Code	
9.G18.INDEX.2	



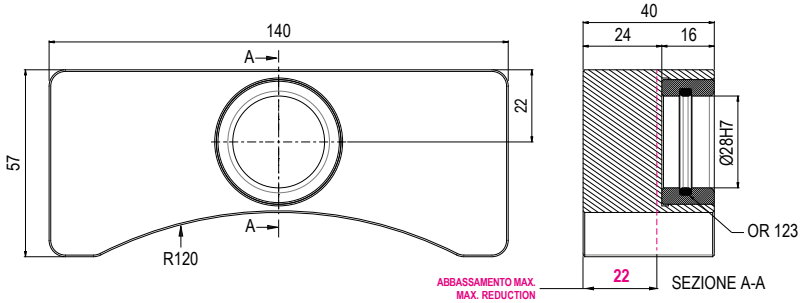
Ø28



Con bussola temprata - with hardened bushing

STOP BLOCK Code	
9.G28.INDEX	
NO STOP BLOCK INCLUDED	

BUSHING Code	
9.G28.INDEX.2	



STOP-BLOCK Lavorabile conico** - Conic machineable**

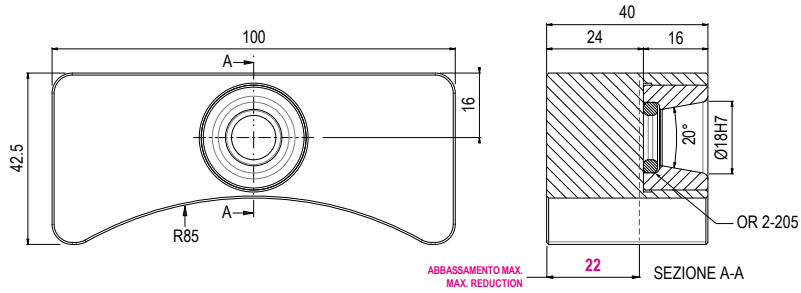
Ø18



Con bussola temprata - with hardened bushing

STOP BLOCK Code	
9.G18.INDEXC	
NO STOP BLOCK INCLUDED	

BUSHING Code	
9.G18.INDEX.2C	



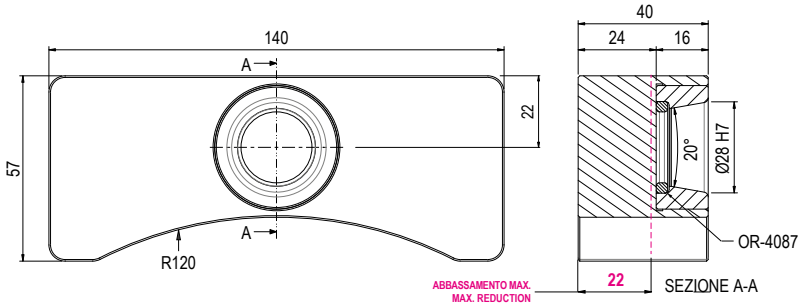
Ø28



Con bussola temprata - with hardened bushing

STOP BLOCK Code	
9.G28.INDEXC	
NO STOP BLOCK INCLUDED	

BUSHING Code	
9.G28.INDEX.2C	

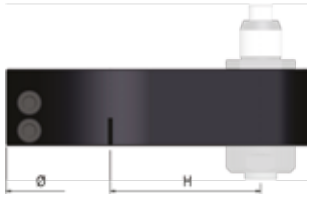


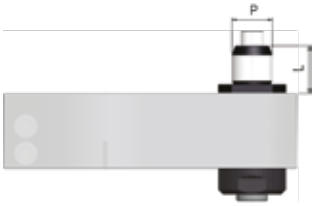
** **A richiesta**
** On request

1

GRUPPO ANTIROTANTE
ANTI-ROTATION GROUP





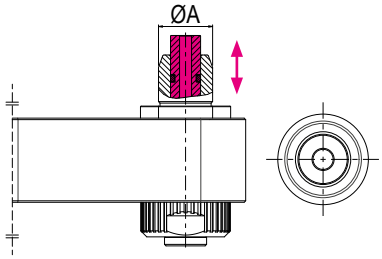
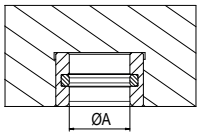
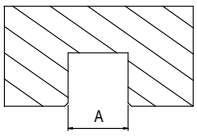
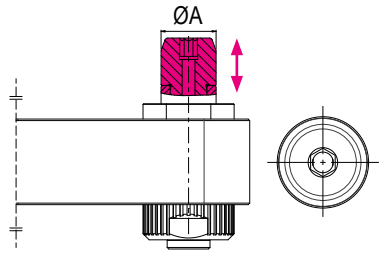
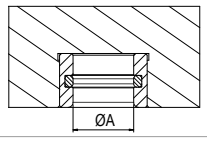
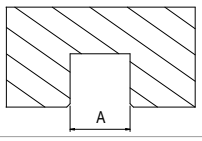
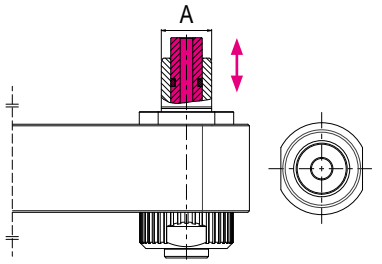
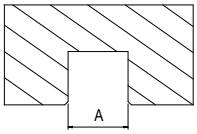
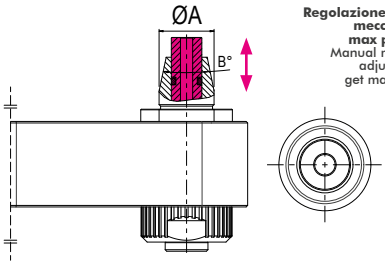
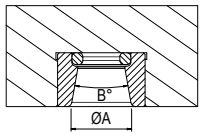
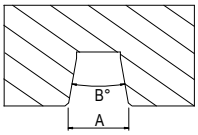
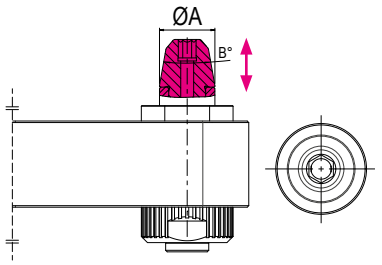
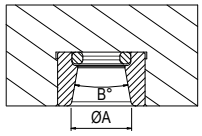
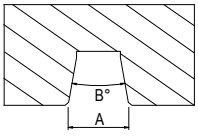
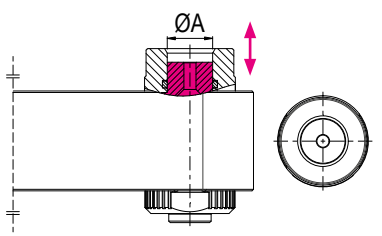
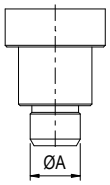


TESTA ANGOLARE ANGLE HEADS	**GRUPPO ANTIROTANTE** ANTI-ROTATION GROUP	**FLANGIA INTEGRALE** INTEGRAL FLANGE	**GRUPPO PERNO** PIN GROUP

MODELLO Model	TIPO Type	Code	Code	Ø	H	Code	FORMA Shape	P	L
GL90-7 GL90-10 GL90-16 GTU-10	0 (Ø73)	9.GMU.13050C/65	9.GMU.13030/65	(Ø73)	65	9.GMU.13070/E12	E	Ø18	21
		9.GMU.13050C/80				9.GMU.13070/E13	E	Ø18	35
		9.GMU.13050C/110	9.GMU.13030/80		80	9.GMU.13070/A12	A	Ø18	21
		9.GMU.13050/65							
GMU 13 / 13L		9.GMU.13050/80	9.GMU.13030/110		110	9.GMU.13070/A13	A	Ø18	35
		9.GMU.13050/110							
G90-5 G90-7 / 7L G90-7 / 7L 2U G90-10 / 10L G90-10 / 10L 2U G90-16 / 16L G90-16 / 16L 2U GMU-16 GR90-5 GR90-10 GR90-16	1 (Ø90)	9.G90.16050/65	9.G90.16030/65	(Ø90)	65	9.G90.16070/A12	A	Ø18	21
		9.G90.16050/80	9.G90.16030/80		80				
		9.G90.16050/110	9.G90.16030/110		110	9.G90.16070/A13	A	Ø18	35
G90-20 / 20L G90-20 / 20L 2U GMU 20	2 (Ø110)	9.G90.20050/80	9.G90.20030/80	(Ø110)	80	9.G90.16070/A24	A	Ø28	24,5
		9.G90.20050/110	9.G90.20030/110		110				
G90-30 / 30L G90-30 / 30L 2U	3 (Ø140)	9.G90.30050/110	9.G90.30030/110	(Ø140)	110	9.G90.16070/A23	A	Ø28	35
G90-S40 G90-S40L GR90-S40	4 (Ø170)	9.G90.S4050/110	9.G90.S4023/110	(Ø170)	110	9.G90.S4070/A24	A	Ø28	24,5
						9.G90.S4070/A23	A	Ø28	35

* **Con l'acquisto della flangia universale il kit di 4 dadi è già incluso nel prezzo**
* The nuts kit is just included in the price of the flange purchase

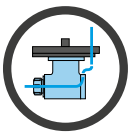
GRUPPO PERNO SPECIALE
SPECIAL PIN GROUP

FORMA Shape	TIPI DI PERNI Pin Types		TIPI DI STOP-BLOCK Stop-block Types	
Cilindrico standard Cylindrical standard **A**			**Standard con bussola cilindrica** Standard with cylindric bushing 	**Prismatico** Prismatic 
Cilindrico flottante Cylindrical floating **B**			**Standard con bussola cilindrica** Standard with cylindric bushing 	**Prismatico** Prismatic 
Prismatico Prismatic **C**				**Prismatico** Prismatic 
Conico regolabile Adjustable conic **D**	 **Regolazione manuale meccanica per max precisione** Manual mechanical adjustement to get max accuracy		**Bussola conica** Conic bushing 	**Prismatico conico** Conic prismatic 
Conico flottante Floating conical **E**			**Bussola conica** Conic bushing 	**Prismatico conico** Conic prismatic 
Cilindrico femmina Female cylindric **F**			**Cilindrico maschio** Cylindric male 	

* **Extra prezzo perno speciale**
* Extra price special pin

OPZIONE REFRIGERANTE INTERNO
INTERNAL COOLANT OPTION

Opzione B
B option



Up to 40bar

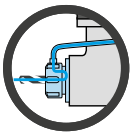


Mandrino macchina » Distributore » Utensile
Machine spindle » Rotating Distributor » Tool

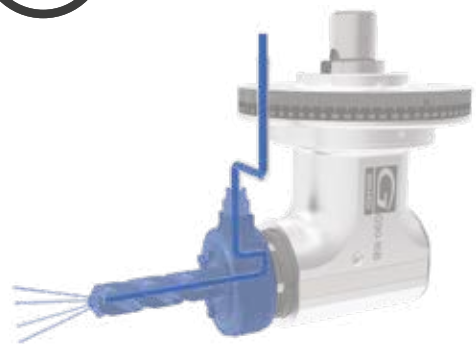
Passaggio refrigerante interno all' utensile.
Dal mandrino macchina e attraverso il distributore rotante
Internal coolant through the tool from the machine spindle and through rotating distributor

ROTAZIONE A SECCO - DRY RUNNING
10 BAR POSSIBILE - POSSIBLE
30/40 BAR NON POSSIBILE - NOT POSSIBLE

Opzione Re-Cool
Re-Cool option



10bar



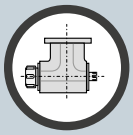
Perno » Ghiera ReCool » Utensile
Positioning Pin » ReCool Nut » Tool

Passaggio refrigerante interno l'utensile per mezzo della ghiera ReCool.
Internal coolant through the tool from the special nut ReCool

PAG. 1.77 - PAG. 1.77

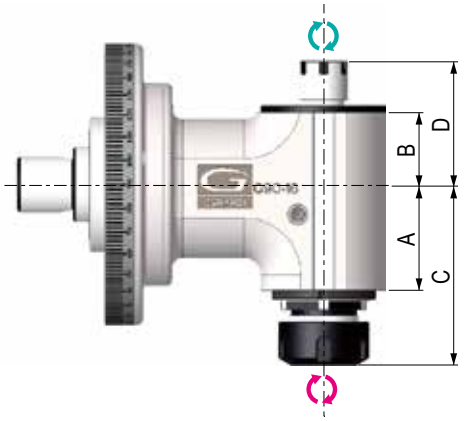
Passaggio refrigerante interno tramite cono » Distributore » Utensile SU RICHIESTA
Internal coolant through shank » roatating distributor » tool ON REQUEST

OPZIONE DOPPIA USCITA serie MTC
DOUBLE OUTPUT OPTION MTC series



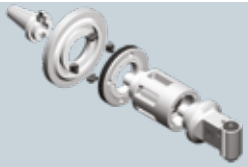
Disponibile per i modelli - Available for following types:

MODELLO MODEL	USCITA OUTPUT	A	B	C	D
G90-5 / G90-7 / G90-7L	ER-11 ER-8 MINI	20	20	38	34
G90-10 / G90-10L	ER-16 ER-11 MINI	37	28	52	44,5
G90-16 / G90-16L	ER-25 ER-16 MINI	47	35	81,5	58,5
G90-20 / G90-20L	ER-32 ER-20 MINI	66	46	103,5	72,5
G90-30 / G90-30L	ER-40 ER-25 MINI	79	53	120	82



Teste angolari MTC doppia uscita
Double output MTC angle heads

CONI / FLANGE / PROLUNGHE
SHANKS / FLANGES / EXTENSIONS



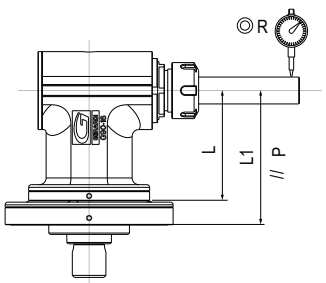
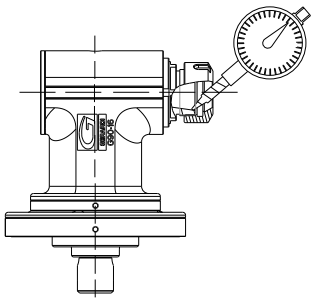
TESTA ANGOLARE / ANGLE HEADS		FLANGIA UNIVERSALE / UNIVERSAL FLANGE	PROLUNGA / EXTENSION		CONO MODULARE / MODULAR SHANK	
MODELLO / MODEL	TIPO / TYPE	Code	H	Code	Code	MODELLO / MODEL
G90-5 G90-7 / 7L G90-10 / 10L G90-16 / 16L GMU-16 G90-16 / 16L 2U	1	9.UF.00001 NO FLANGE	50 100 200	9.GEX.10050 9.GEX.10100 9.GEX.10200	9.SK30.ISO	SK DIN 69871 30/40/50
G90-20 / 20L GMU-20 G90-20 / 20L 2U	2	9.UF.00002 NO FLANGE	50 100 200	9.GEX.20050 9.GEX.20100 9.GEX.20200	9.SK40.ISO 9.SK50.ISO	BT MAS 403 30/40/50
G90-30 / 30L G90-30 / 30L 2U	3	9.UF.00003 NO FLANGE	100 150	9.GEX.30100 9.GEX.30150	9.SK40.CAT40 9.SK50.CAT50	CAT ANSI B5.50 40/50
G90-S40	4	9.UF.00004 NO FLANGE			9.SK30.2080 9.SK40.2080 9.SK50.2080	ISO DIN 2080 30/40/50
G90-S40XL G90-S40XLxx GMU-S40-125 GMU-S40	5	9.UF.00005 NO FLANGE			9.HSK.63000 9.HSK.80000 9.HSK.10000	HSK DIN 69893 63/80/100
G90-S50 G90-S50XLxx GMU-S50	6	9.UF.00006 NO FLANGE			9.CPT.C5000 9.CPT.C6000 9.CPT.C8000	C. ISO 26623 C5/C6/C8

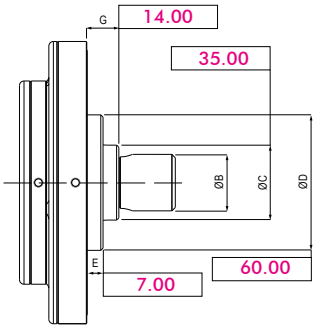
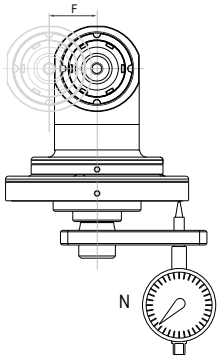
Senza cono -100 €
No shank -100 €

1

ESEMPIO SCHEDA DI COLLAUDO
INSPECTION SHEET EXAMPLE

Tipo - Type	G90-16 MTC
Codice - Code	9.G90.16001
Numero seriale - Serial number	17-127
Attacco cono - Input shank	DIN-69871/40
Note speciali - Special notes	

TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	**ERRORE** Error
Quota e parallelismo da filo cono ad asse principale. Oscillazione asse utensile. Height and parallelism from gauge line to main axis. Runout cutter axis.		**Ammesso** Allowed A= ±0,03 R=±0,025 P=±0,015/100 **Rilevato** Checked L = +0,020 L1 = +0,010 R = 0,025 P = 0,012/100
Oscillazione mandrino porta utensile. Runout in cutter spindle.		**Ammesso** Allowed 0,010 **Rilevato** Checked 0,008

TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	**ERRORE** Error
Verifica delle quote per l'attacco del cono e della flangia. Main input shaft dimension checked.		**Ammesso** Allowed E/G=0,1/-0,5 C/D=+0/-0,03 **Rilevato** Checked B = 25h7 ok E = -0,100 G = -0,150 C = -0,020 D = -0,030
Perpendicolarità e disassamento tra gli assi principali. Perpendicularity and offset between main axes.		**Ammesso** Allowed F = ± 0,020 N = 0,010/100 **Rilevato** Checked F = 0,015 N = 0,010/100

RODAGGIO TESTA - RUN-IN

RPM in entrata RPM	**Durata** Time	**Temperatura Ambiente** Room Temperature	**Temperaratura Sonda** Sensor Temperature	**Note** Notes
1000	00:10:00	20°	28°	
2000	00:10:00		37°	
3000	00:05:00		41°	
4000	00:05:00		48°	
5000				
6000				

Revisioni - Revisions	**Timbro** - Stamp	**Data** - Date **Firma** - Signature

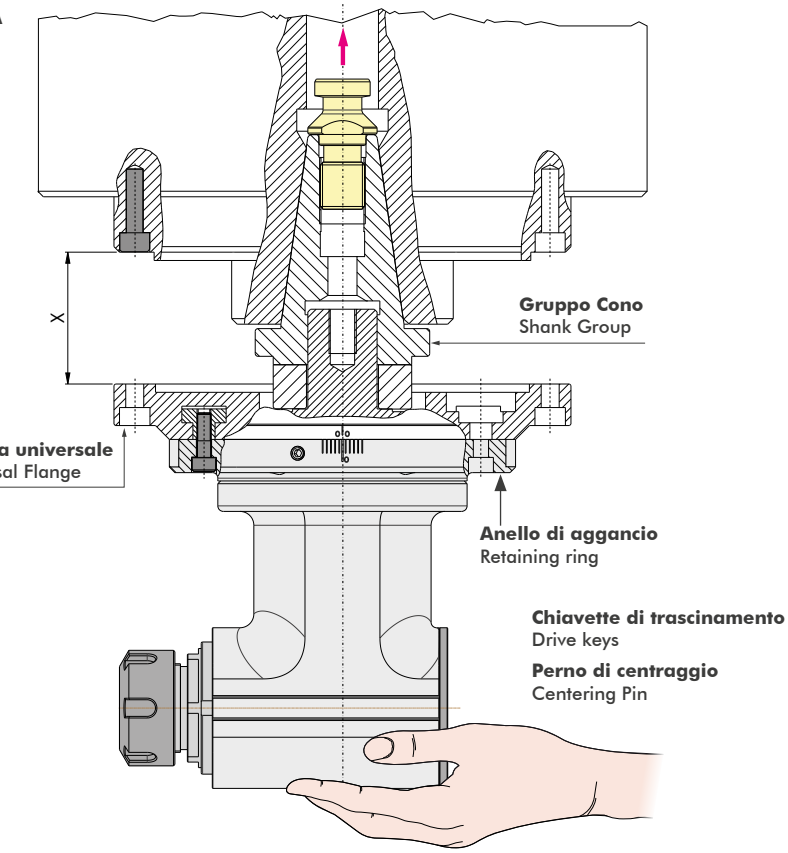
ESEMPIO di MONTAGGIO
MOUNTING EXAMPLE

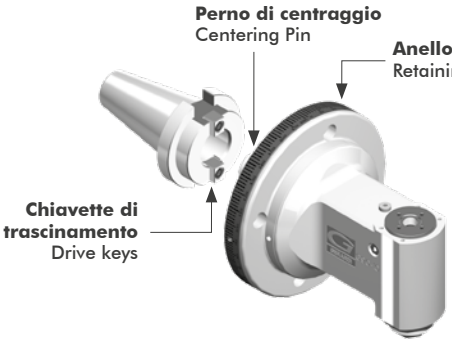
DISTANZIALE REALIZZATO IN OPERA
SPACER TO BE MADE

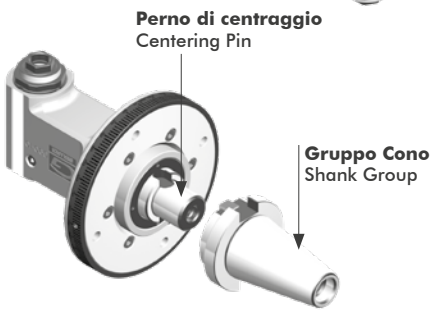
FASE 1 - STEP 1

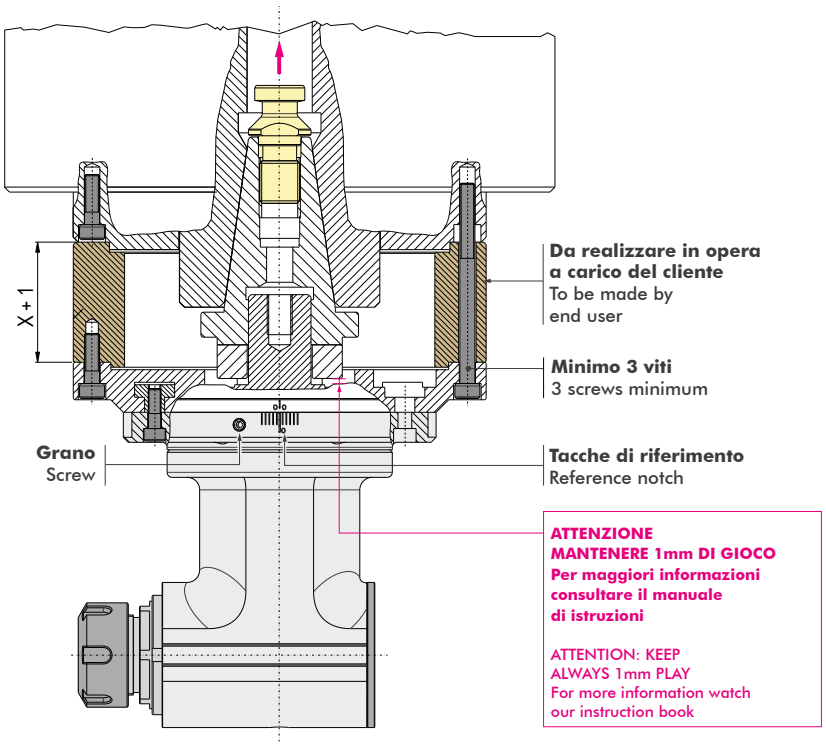
- Montare l'anello di aggancio e la flangia universale sulla testa
- Applicare il cono alla testa
- Inserire la testa nel mandrino macchina.
- Rilevare la misura "X"

- Mount the retaining ring and the universal flange
- Mount the shank on the Head.
- Mount the head into the machine spindle.
- Check dimension "X"









FASE 2 - STEP 2

- Realizzare un distanziale con spessore X+1mm
- Rimontare il tutto in macchina.
- Orientare e posizionare correttamente la testa angolare
- Azzerare l'anello graduato tramite il grano e le tacche di riferimento

- Make a spacer with X + 1mm thickness.
- Reassemble the Head on the machine.
- Turn the angle head in the correct position.
- Set the graduated ring by rotating the screw to the 0 position.

PINZE - COLLETS
SCHAUBLIN



MODELLO MODEL	PINZA COLLET	Ø	Code	
GR90-5	Schaublin P6	0,3 - 0,4 - 0,5 - 0,6 - 0,7 - 0,8 - 0,9	9.P6.D0XXX	
		1 - 1,1 - 1,2 - 1,3 - 1,4 - 1,5 - 1,59 (1/16") - 1,6 - 1,7 - 1,8 - 1,9		
		2 -2,5 - 3 - 3,5		
		4 - 4,5 - 5		

Esempio di ordinazione: Schaublin P6 - Ø0,3 = 9.P6.D003 - Ø1,59 = 9.P6.D0159
Example to order: **Schaublin P6 - Ø0,3 = 9.P6.D003 - Ø1,59 = 9.P6.D0159**

ER-DIN 6499



Foratura-fresatura / drilling-milling

MODELLO MODEL	PINZA COLLET	Ø	Code	
G90-5	ER8	Ø0,5 / 5	9.ER.08000/...	
GL90-7 G90-7 / 7L	ER11	Ø1 / 7	9.ER.11000/...	
GL90-7B G90-7B/ 7LB	ER11 WP	Ø3 / 7	9.ER.11WP0/...	
GTU 10 GL90-10 G90-10 / 10L GR90-10	ER16	Ø1 / 10	9.ER.16000/...	
GL90-10B G90-10B / 10LB G90-10RI / 10LRI GR90-10RI	ER16 WP	Ø1 / 10	9.ER.16WP0/...	
GMU-13 / 13L	ER20	Ø1/13	9.ER.20000/..	
GL90-16 G90-16 / 16L GMU-16 GR90-16 G90-16 / 16L 2U	ER25	Ø1 / 16	9.ER.25000/...	
GL90-16B / RI G90-16B / 16LB G90-16RI / 16LRI GR90-16RI	ER25 WP	Ø1 / 16	9.ER.25WP0/...	
G90-20 / 20L G90-20L/272 GMU-20 G90-20 / 20L 2U	ER32	Ø2 / 20	9.ER.32000/...	
G90-20B / 20LB G90-20L/272B G90-20RI 20LRI	ER32 WP	Ø2 / 20	9.ER.32WP0/...	
G90-30 / 30L G90-30 / 30L 2U	ER40	Ø3 / 30	9.ER.40000/...	
G90-30B 30LB G90-30RI 30LRI	ER40 WP	Ø3 / 30	9.ER.40WP0/...	



Maschiatura / tapping

PINZA ET1 (compensate) COLLET ET1 (compensation)	Code	
-	-	
-	-	
-	-	
ET 1-16 (M2 - M8)	9.ET.16000	
-	-	
-	-	
ET 1-25 (M2 - M12)	9.ET.25000	
-	-	
ET 1-32 (M3,5 - M16)	9.ET.32000	
-	-	
-	-	
-	-	

Esempio di ordinazione: ER25 - Ø10=9.ER.25000/10
Example to order: ER25 - Ø10=9.ER.25000/10

WP= Resistenza all'acqua
WP= Waterproof

GHIERE - NUTS
ES - STD

MODELLO MODEL	GHIERA NUT	Code	COPPIA SERRAGGIO CLAMPING FORCE (Nm)	
GR90-5	-	-	-	


ES


STD


AX

MODELLO MODEL	GHIERA NUT	Code	COPPIA SERRAGGIO CLAMPING FORCE (Nm)	
G90-5	ER8	9.ER.080ES	5 (6)	
GL90-7 G90-7 / 7L	ER11 ES	9.ER.110ES	12 (15)	
GL90-7B G90-7B/ 7LB	ER11 ES	9.ER.110ES	12 (15)	
GTU 10 GL90-10 G90-10 / 10L GR90-10	ER16 ES	9.ER.170ES/C	24 (30)	
GL90-10B G90-10B / 10LB G90-10RI / 10LRI GR90-10RI	ER16 ES	9.ER.160ES	24 (30)	
GMU-13	ER20 STD	9.ER.20STD	28 (35)	
	ER20 AX	9.ER.200AX	52	
GL90-16 G90-16 / 16L GMU-16 GR90-16 G90-16 / 16L 2U	ER25 STD	9.ER.25STD	32 (40)	
	ER25 AX	9.ER.250AX	80	
GL90-16B / RI G90-16B / 16LB G90-16RI / 16LRI GR90-16RI	ER25 STD	9.ER.25STD	32 (40)	
G90-20 / 20L G90-20L/272 GMU-20 G90-20 / 20L 2U	ER32 STD	9.ER.32STD	136 (70)	
	ER32 AX	9.ER.320AX	104	
G90-20B / 20LB G90-20L/272B G90-20RI 20LRI	ER32 STD	9.ER.32STD	136 (70)	
G90-30 / 30L G90-30 / 30L 2U	ER40 STD	9.ER.40STD	176 (220)	
G90-30B 30LB G90-30RI 30LRI	ER40 STD	9.ER.40STD	176 (220)	

CHIAVI - WRENCHES
ES - STD

CHIAVI WRENCHES	Code	
-	-	
-	-	


ES


STD


AX

CHIAVI WRENCHES	Code	
CH-8 STD	9.CH.08STD	
CH-21 ES	9.CH.210ES	
CH-17 ES	9.CH.170ES	
CH-27 ES	9.CH.270ES	
CH-17 ES	9.CH.170ES	
CH-27 ES	9.CH.270ES	
CH-17 ES	9.CH.170ES	
CH-32 ES	9.CH.320ES	
CH-17 ES	9.CH.170ES	
CH-32 ES	9.CH.320ES	
CH-32 ES	9.CH.320ES	
CH-20 STD	9.CH.20STD	
CH-20 AX	9.CH.200AX	
CH-39 ES	9.CH.390ES	
CH-25 STD	9.CH.25STD	
CH-44 ES	9.CH.440ES	
CH-25 AX	9.CH.250AX	
CH-39 ES	9.CH.390ES	
CH-25 STD	9.CH.25STD	
CH-46 ES	9.CH.460ES	
CH-32 STD	9.CH.32STD	
CH-32 AX	9.CH.320AX	
CH-46 ES	9.CH.460ES	
CH-32 STD	9.CH.32STD	
CH-59-ES	9.CH.590ES	
CH-40STD	9.CH.40STD	
CH-59-ES	9.CH.590ES	
CH-40STD	9.CH.40STD	

SIRINGA PER INGRASSAGGIO
SYRINGE FOR GREASING

NEW



Sistema di ingrassaggio rapido mediante siringa specifico per la lubrificazione degli ingranaggi delle teste angolari.

Quick greasing system through syringe. Designed specifically for the lubrication of Angle Heads' gears.

MODELLO MODEL	**CAPACITÀ** Capacity	Code	
Siringa grasso Grease syringe	**30ml**	9.FA.018055	

CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE ADAPTORS

NEW

Compatibili con tutte le uscite ER - Compatible with all ER outputs

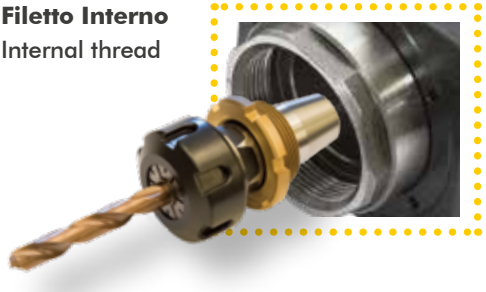
Vedi intera gamma nel capitolo Accessori pag. 5.134 / 5.135 - See the full range in the Accessories chapter at pages 5.134 / 5.135



Sono un facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).
Idonei a refrigerazione esterna o interna mantenendo il presetting precedentemente realizzato.

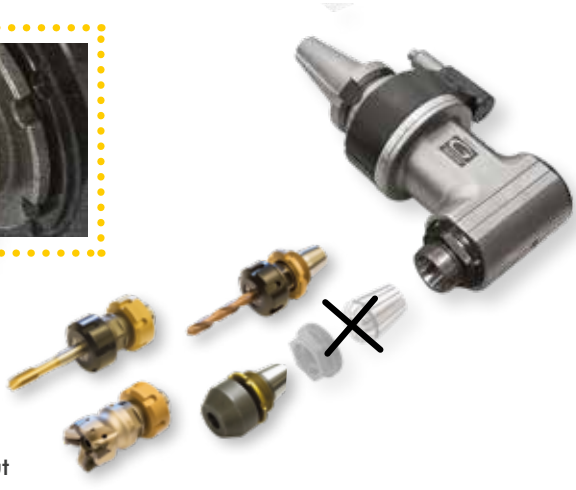
They are a modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs. All Adaptors are suitable for external and internal coolant supply and keep the presetting already done.

Filetto Interno
Internal thread



Filetto Esterno
External thread





Preparazione della Testa Angolare
Preparing the Angle Heads

1- **Rimuovere pinza e ghiera di serraggio** / Remove collet and clamping nut
2- **Introdurre il cambio rapido** / Introduce the quick change adaptor
3- **Stringere la ghiera del cambio rapido** / Lock the quick change nut.