



# OFFSET ANGLE HEADS

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

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

**Classic:** Pag - Page 1.40 - 1.43

**Evolution:** Pag - Page 2.46



## **CLASSIC LINE**

TESTE ANGOLARI - ANGLE HEADS

### **LE INTEGRALI - THE INTEGRAL**



1

## **EVOLUTION LINE**

TESTE ANGOLARI - ANGLE HEADS

### **LE MODULARI - THE MODULAR**



2

## **EVOLUTION LINE**

MOLTIPLICATORI - SPINDLE SPEEDERS

### **ALTA VELOCITÀ - HIGH SPEED MACHINING**



3

## **MOTORIZZATI - DRIVEN TOOLS**

VDI: DIN5480 / 5482 / BARUFFALDI / 1809

### **TORRETTE UNIFICATE - VDI LATHES TURRETS**



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## **MOTORIZZATI - DRIVEN TOOLS**

BIGLIA / BMT / DMG MORI / HAAS / MAZAK /  
MIYANO / NAKAMURA / OKUMA / TSUGAMI

### **TORNI CNC - CNC LATHES**



5

## **PORATAUTENSILI STATICI - STATIC TOOLS**

VDI DIN69880 / BMT / HAAS / MAZAK / TSUGAMI



6

## **PINZE - COLLETS**

ER-DIN 5499 / WP / ET1 / HP



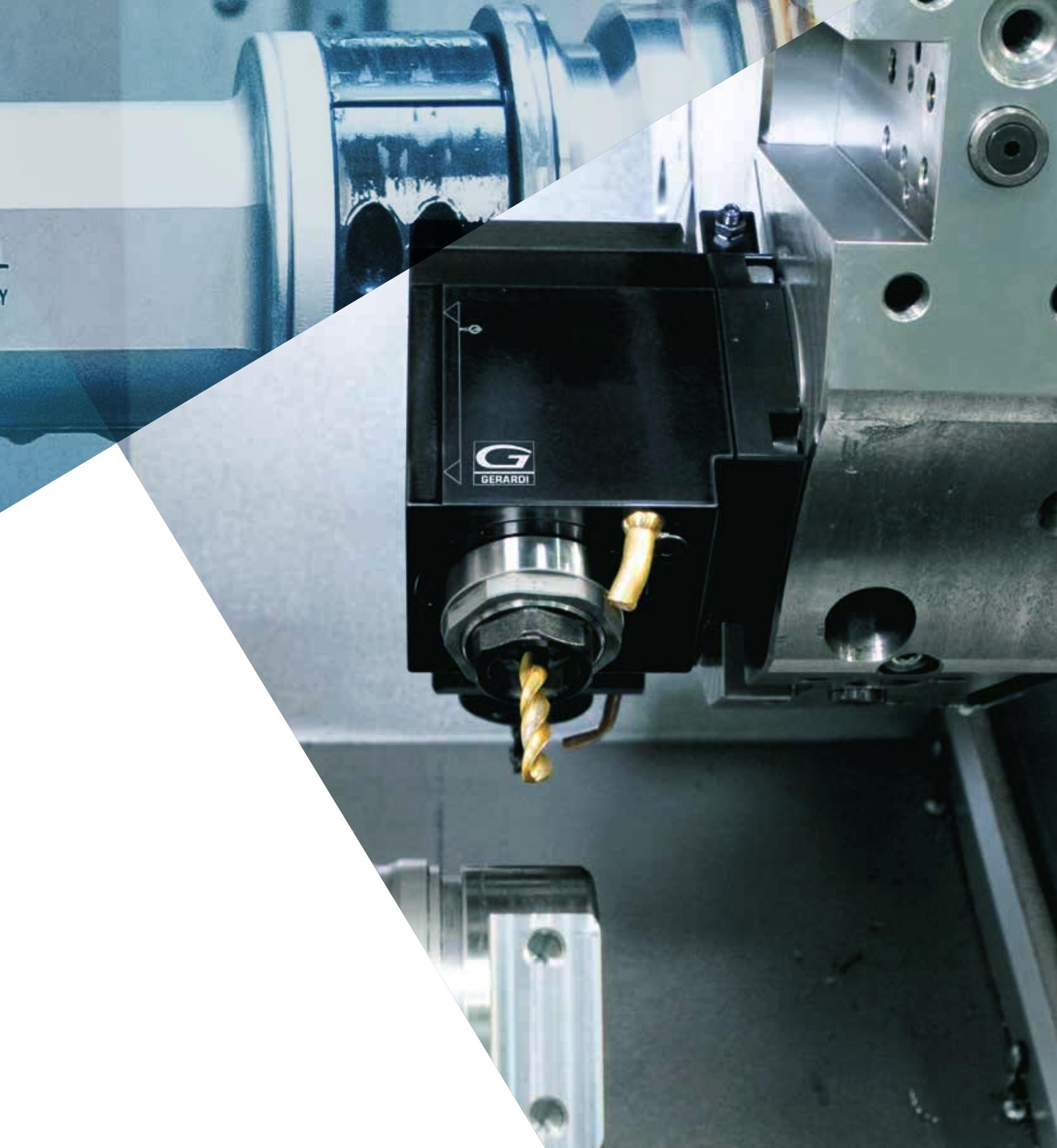
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G90-16

MADE IN ITALY

“  
Teste Angolari e Motorizzati  
Ideali per il settore  
Aerospaziale & Automotive  
Angle Heads and Driven Tools  
Ideal for Aerospace &  
Automotive application  
”  
**What does  
tooling mean?**



Dal 1985 Gerardi affianca alla sua ampia gamma di prodotti "workholding" la linea di portautensili Tooling composta da Teste Angolari e Motorizzati per torni CNC per lavorazioni foratura, fresatura e filettatura **ideali per il settore aerospaziale, automotive e qualunque altro settore di lavorazioni di precisione.** Tutti i prodotti Gerardi sono in grado di soddisfare gli standard più elevati e le richieste speciali dei nostri clienti e tutta la linea di prodotti tooling è interamente progettata e realizzata in Italia.

Since 1985 Gerardi supplies high performance Angle Heads for modern Machine centers and conventional machines and Driven Tools for CNC Lathes. These fixtures allow milling, drilling and tapping and have become internationally appreciated for their high quality and reliability. **Ideal for aerospace, automotive or otherhigh precision applications.** All Gerardi products are able to meet the highest standards and customers special requests. The whole range of Tooling products is entirely designed and realized in Italy

## ANGLE HEADS

# Evolution Line



### STD 90° series

- La nuova testa GTU permette lavorazioni sotto squadra impossibili prima d'ora su normali teste ATC
- The new GTU head allows to perform works undercut, which were impossible before with standard ATC heads.

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### GMU series

- 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.

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### STD 90° series

- 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.

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### OFFSET series

- Nuova gamma di teste disassate con refrigerante interno fino a 70bar.
- New offset heads range with internal coolant up to 70 bar.

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### STD 90° series

- 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

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### DOUBLE series

- Nuova gamma di teste con doppia uscita simmetrica.
- New double symmetric output heads range.

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# classic Line ANGLE HEADS

# Main inside news



### LIGHT series

- Nuova testa angolare in alluminio FLU con angolazione regolabile 0-90°
- New angle heads FLU with aluminum bodies with adjustable angle from 0 to 90°

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### LIGHT series

- Nuova testa angolare con corpo in alluminio con uscita speculare
- New angle headswith aluminum body with double specular outputs

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### STD 90° series

- Nuove teste angolari F90-13 e F90-13L
- New angle heads F90-13 and F90-13L

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### OFFSET series

- Nuove teste angolari disassate con refrigerante interno fino a 70bar
- New offset angle heads range with internal coolant up to 70bar

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### DOUBLE series

- Nuove teste angolari con doppia uscita simmetrica
- New double simmetric outputs angle heads range

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# Gerardi

DRIVEN TOOLS



## BIGLIA lathes

- Nuovi motorizzati BMT40
- New BMT40 driven tools

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## BMT lathes

- Motorizzati rotazione concorde
- BMT65 compatibili con torrette HAAS
- Uscite C.ISO26623 su richiesta
- Driven Tools with the same rotation as mach. spindle
- BMT65 now compatibles with HAAS turrets
- Driven Tools with C.ISO26623 on request

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## DMG MORI lathes

- Nuovi modelli per torni NLX e NZ
- Nuovi modelli con uscite multiple
- Nuovi portacreatore
- Uscite C.ISO26623 su richiesta
- New driven tools for NLX and NZ lathes
- Available new multiple outputs types
- Available new driven gear hobber
- Driven Tools with C.ISO26623 on request

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## HAAS lathes

- BMT65 compatibili con torrette HAAS
- Driven Tools with C.ISO26623 on request

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## MAZAK lathes

- Nuova motorizzati QTN2
- Uscite C.ISO26623 su richiesta
- New driven tools for QTN2 lathes
- Driven Tools with C.ISO26623 on request

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## OKUMA lathes

- Motorizzati OKUMA presto in aumento
- Uscite C.ISO26623 su richiesta
- OKUMA driven tools soon in progress
- Driven Tools with C.ISO26623 on request

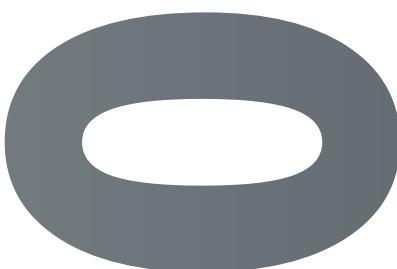
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## TSUGAMI lathes

- Nuovi motorizzati per torni TSUGAMI
- New driven tools for TSUGAMI lathes

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## BMT lathes

- Nuova gamma di portautensili statici BMT 45/55/65/75
- New BMT45/55/65/75 range of Static Tools toolholders

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## TSUGAMI lathes

- Nuova gamma di portautensili statici TSUGAMI BMT65
- New TSUGAMI BMT65 range of Static Tools toolholders

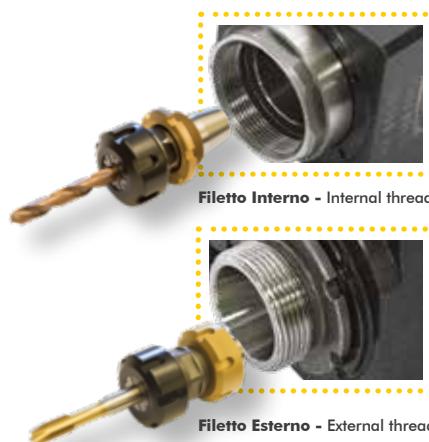
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Gerardi  
DRIVEN TOOLS

## NUOVI CAMBI RAPIDI MODULARI NEW MODULAR QUICK CHANGE ADAPTORS

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



TEMPI di INSTALLAZIONE RIDOTTI e POSSIBILITÀ di PRE-SETTING A BORDO MACCHINA

REDUCE SET-UP TIME and ALLOW OFFLINE TOOL PRESETTING !

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## 1971



**Gerardi S.p.A. Co. was established by Ivano Gerardi Sr. in 1971 with a background of 20 years experience in all kinds of machine shops throughout Canada and U.S.A. Today the company is located just 5 Km far from the Milan International Airport Malpensa 2000.**



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## 1980



**Dal 1985 la gamma di prodotti accessori per macchine utensili si è completata affiancando alle attrezzature portapezzi, una serie di testine angolari per macchine utensili tradizionali e per centri di lavoro ed una serie di motorizzati per torni a C.N.C. Oggi i migliori mercati per questi prodotti sono quelli in cui i settori automobilistico e aeronautico sono più sviluppati. Nel corso degli anni 80 l'azienda sviluppò un concetto totalmente nuovo di rettificatrice. Alla base del nuovo progetto furono alcune soluzioni innovative nel processo di rettifica.**



In the Eighties the company grows to become the largest Italian vise manufacturer and one of the leaders in the European Common Market and the quality of its products gains worldwide renown. Meanwhile the company develops its own Grinding machines with a totally new concept at the base of the project. Moreover Gerardi S.p.A. launches a wide range of Angle Heads for traditional machine tools and machining centers and Driven Tools for C.N.C. lathes. With worldwide marketing efforts, the company has brought the production from few pieces to thousands with products and technologies known and sold all over the world.

## 1990



**Alla fine degli anni '80 la Gerardi ha stretto i rapporti di collaborazione con l'industria aerospaziale cinese, che sono sfociati nella costituzione di una joint-venture in Cina per la produzione sia di accessori standard che parti per le attrezzature. Tale joint-venture, di cui Gerardi oggi ha il pieno controllo grazie agli enormi investimenti nelle macchine rettificatrici di nuova generazione, opera secondo gli standard di qualità ISO 9001:2000 e sta conseguendo in Asia e nel mondo gli stessi eccellenti risultati ottenuti in Europa dalla casa madre.**



The research and development of the grinding technologies have never stopped. In the same period the company established a joint-venture in China for the manufacturing of parts and types of vises together with the Chinese aerospace industry. Thanks to major investments the new company is today fully controlled by Gerardi and is achieving the same excellent leadership results in Asia as those accomplished in Europe.

## 2000



**Dopo l'apertura della filiale statunitense Gerardi USA nel 2000 LLC a Chicago (IL), nel 2007 è stata costituita la Gerardi GMBH in Germania, nei pressi di Stoccarda e nel 2010 la Gerardi UK. E' facile intuire quali siano stati gli Investimenti e lo sforzo finanziario necessario per avviare e rendere operativa tale iniziative, ma la veloce evoluzione e l'adeguamento continuo a mercati molto competitivi è stata, da sempre, la prerogativa principale della Gerardi S.p.A.**



After the set up of a US subsidiary Co. near Chicago (Huntley - IL), a new German branch has been established in Stuttgart / Germany in 2007 in order to better penetrate and service the local market. Of course this meant a huge financial effort and investment, but the fast evolution and continuous adjustment to high competitive markets has always been the main Gerardi S.p.A. feature.

# Our history

## 2012



**La Gerardi investe in un nuovo stabilimento per la produzione di Teste Angolari a LONATE POZZOLO ed un nuovo stabilimento in INDIA per la produzione di attrezzature destinate al mercato locale**



Gerardi sets up a new plant for manufacturing in LONATE POZZOLO to increase the Angle Heads production and a new company in INDIA for the manufacturing of fixtures for the Indian market.

## 2018



**Il gruppo Gerardi comprende oggi più di 200 collaboratori, la cui età media è inferiore ai 40 anni. Nell'azienda tutte le qualifiche di rilievo e le posizioni manageriali sono state raggiunte attraverso formazione ed esperienze interne, valorizzando le forze e le capacità individuali. Attualmente esportiamo oltre il 70% dei nostri prodotti in più di 60 paesi nel mondo e investiamo circa il 10% del fatturato totale in ricerche, studi e progetti per nuovi prodotti. Gli investimenti totali dell'azienda superano i 15 milioni di €.**



The Gerardi S.p.A. Co. staff now numbers over 200 employees with an average age of under 40. In the company all the top roles and manager positions were acquired through internal training and experience geared to develop individual skills and abilities. Our total export is today more than 70% of our total production in more than 50 countries around the world and we invest about 10% of our total turnover in advanced technological research for new products. The overall investments of the company exceed €15 Million.





**Progettazione, produzione  
e distribuzione internazionale di  
attrezzature per macchine utensili.**

**Rispetto e protezione dei nostri  
agenti e distributori è uno dei  
nostri valori fondamentali**

Designing, manufacturing and worldwide distribution of workholding & tooling equipment fixtures for machine tools

Support and protection of our agents reps and distributors are our value and pride!

### What's next ?

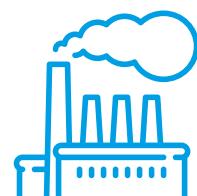


**1 Stabilimento produttivo in India**  
1 Manufacturing plant in India



**1 Ufficio commerciale in Brasile**  
1 Commercial Branch in Brazil

# Where we are



**3 stabilimenti in Italia**  
80 dipendenti

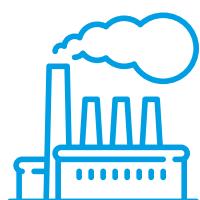
**3 plants in Italy**  
80 employees





**Sin dall'inizio abbiamo sviluppato la distribuzione dei nostri prodotti creando una solida partnership con la nostra rete di distributori in tutto il mondo. Riteniamo sia la base per un lavoro continuo e una profonda penetrazione del mercato mondiale.**

**Since the beginning we've been developing our products distribution by building up a strong partnership with our worldwide distributors network, which is the base for continuous work and a deep market penetration.**



**1 stabilimenti in Cina**  
120 dipendenti

**1 plant in China**  
120 employees



**1 Ufficio Commerciale**  
Chicago, U.S.A

**1 Commercial branch**  
Chicago, U.S.A



**1 Ufficio Commerciale**  
vicino a Stoccarda in Germania

**1 Commercial branch**  
near Stuttgart, Germany



# CERTIFICATO

DI GARANZIA 



## CERTIFICATO DI GARANZIA GERARDI GARANTISCE I MATERIALI DELLA MIGLIOR QUALITÀ

La **GERARDI SPA** garantisce, per un periodo di **5 ANNI**, la buona qualità dei materiali impiegati e la perfetta costruzione su tutta la gamma di morse modulari e cubi portapezzi ad azionamento manuale. Per quanto riguarda i sistemi pneumatici, idraulici e magnetici e teste angolari la garanzia si estende per **12 MESI** mentre per portautensili motorizzati a rotazione meccanica la garanzia si estende per **24 MESI**. Per effetto di questa garanzia, la **GERARDI SPA** si impegna a provvedere alla riparazione o sostituzione di quelle parti che risultassero difettose per impiego di cattivo materiale o per vizio di costruzione, purché dette parti vengano consegnate in ogni caso in porto franco al suo stabilimento. La garanzia non si estende a guasti o rotture derivati da imperizia, trascuratezza o cattivo uso del prodotto da parte dell'acquirente e cessa qualora i pagamenti non vengano effettuati dal compratore alle scadenze convenienti o quando il prodotto venga modificato o riparato dall'utilizzatore. Tutti i prodotti Gerardi sono marchiati e riconoscibili a vista. Su prodotti di dubbia provenienza e non marchiati non sarà riconosciuta nessuna garanzia.

FIRMA



FIRMA

# CERTIFICATE OF GUARANTEE



## GERARDI GUARANTEE CERTIFICATE OF THE BEST QUALITY OF MATERIAL EMPLOYED

GERARDI SPA guarantees for a period of **5 YEARS** the good quality of materials employed and the perfect construction of the complete range of modular vises and tombstones with manual control. As far as pneumatic, hydraulic and magnetic items and angular heads the warranty extends for **12 MONTHS** while for driven tools with mechanical running the warranty extends for **24 MONTHS**. For this warranty **GERARDI SPA** commits herself to repair or substitute any part which shall result defected by workmanship or for the use of bad quality material only on condition that such parts shall be delivered free port to our factory. This warranty does not extend to breakages arising from unskillfulness or carelessness and negligent use of the items from the buyer side and terminate in case the payments are not made as agreed and when the item shall be modified or repaired by the user. Each Gerardi item has been branded and it is easy recognizable at first sight. On items of uncertain origin and not marked no warranty will be allowed.

SIGNATURE



SIGNATURE

### ATTENZIONE - ATTENTION

Le caratteristiche tecniche indicate in questo catalogo non sono impegnative e possono essere modificate senza preavviso

The technical data contained herein are given for information only and are subject to change without notice



# **CONDIZIONI GENERALI DI VENDITA**

## **1- ORDINAZIONI:**

L'importo minimo delle ordinazioni è fissato in Euro 150,00 netto (IVA esclusa). Solo su specifica richiesta del cliente importi inferiori saranno evasi con un addebito fisso di 10,00 euro per spese di gestione.

## **2- PREZZI:**

I prezzi indicati nel seguente listino sono espressi in Euro (IVA esclusa) e sono suscettibili di modifiche senza preavviso. Consigliamo pertanto di indicare sempre nei Vostri ordini il riferimento del listino in Vostre mani (N° / Anno). I listini aggiornati in tempo reale sono disponibili on line [www.gerardi.it](http://www.gerardi.it) come anche eventuali Errata Corrige.

Il Costruttore declina inoltre ogni responsabilità per eventuali errori di stampa contenuti in questa pubblicazione

## **3- PAGAMENTO:**

I pagamenti devono essere effettuati nei termini e alle condizioni concordate. In caso di ritardato pagamento, verranno addebitate le spese e gli interessi di mora al tasso bancario corrente maggiorato di due punti.

## **4- MODIFICHE:**

Modifiche di ogni tipo o errori di stampa dei nostri cataloghi o listini non danno diritto a reclami. Le rappresentazioni grafiche non sono impegnative.

## **5- RESA:**

I prezzi si intendono per merce resa franca ns. magazzino in Lurate Pozzolo (VA).

## **6- IMBALLO:**

L'imballo verrà addebitato al costo in caso fosse necessario.

## **7- TRASPORTO:**

La merce viaggia sempre a rischio e pericolo del committente.

## **8- TERMINI DI CONSEGNA:**

La maggior parte degli ordini viene evaso entro le 48 ore successive al ricevimento degli stessi (Il nostro personale addetto avviserà per la conferma del ritiro). I termini di consegna per gli articoli non disponibili in stock sono puramente indicativi e pertanto non vincolanti. Non assumiamo responsabilità alcuna per eventuali ritardi di consegna causati da motivi di forza maggiore.

## **9- VALIDITA' OFFERTE:**

Le offerte sono valide trenta giorni dalla data della loro emissione.

## **10- RECLAMI:**

Ogni particolare ed ogni spedizione è accuratamente controllata, eventuali reclami dovranno pervenire in forma scritta, entro otto giorni dal ricevimento del materiale.

## **11- GARANZIE:**

La precisione, la qualità e le caratteristiche tecniche dei nostri prodotti sono garantite e gli articoli che saranno riconosciuti difettosi, verranno sostituiti gratuitamente, senza che ciò possa dar luogo ad alcun addebito a nostro carico per spese o danni in genere.

Sono esclusi dalla nostra garanzia i pezzi manomessi, modificati, danneggiati per normale logorio, o per uso scorretto.

## **12- RESI:**

Al fine di regolamentare le richieste di RESO PER ERRATA ORDINAZIONE da parte della Clientela, siamo costretti a precisare alcune regole, alle quali preghiamo scrupolosamente di volerVi attenere:  
**A)** Le richieste di reso dovranno pervenire entro 8 giorni dalla data di ricezione della merce.

**B)** Le richieste, necessariamente scritte, devono attendere la risposta della Gerardi S.p.A. che si riserva la facoltà di accettarle.

**C)** Nella bolla di reso devono essere riportati gli estremi della fattura o bolla di consegna.

**D)** Il materiale viaggerà a spese del cliente.

**E)** Le confezioni dovranno essere integre ed originali.

**F)** nell'eseguire la nota di accredito verranno trattenuti 15,00 Euro ogni 150,00 Euro del valore del reso stesso per spese di ricolloado e nuovo stoccaggio.

## **13-GIURISDIZIONE:**

Il foro competente in via esclusiva per la risoluzione di qualsivoglia controversia in relazione alla interpretazione e/o esecuzione delle presenti condizioni di vendita sarà quello di Busto Arsizio (VA).

# **GENERAL SALES CONDITIONS**

## **1- PURCHASE ORDERS:**

The minimum order value is Euro 150,00 net. Customers may request a lower minimum order amount on specific items that will be delivered with a fixed charge of 20,00 euro to cover administration expenses.

## **2- PRICES:**

Prices shown on Gerardi Price lists are in Euro and are subject to change without prior notice. When submitting Purchase Orders, please show the Price List reference (Number and Year). Up-dated Price lists are available on-line at [www.gerardisp.com](http://www.gerardisp.com) The Manufacturer declines all responsibility for any pricing errors contained in these publications.

## **3- PAYMENT and TERMS:**

Standard Payment Terms are strictly Net 30 Days. Should alternative Payment Terms be agreed outside of our Standard Payment Terms, must be agreed in advance of order placement. In case of payment delays, expenses and interest will be charged.

## **4- CHANGES:**

Gerardi S.p.A should be notified immediately if any changes or mistakes are identified within our catalogues or our Price Lists. These changes or mistakes should be notified immediately, but will not entitle a customer to the right to submit claims or complaints. Graphic representations in our catalogues and any marketing materials provide an indicative representation of the products and are not contractually binding. Should a customer require additional information, this should be requested from Gerardi S.p.A

## **5- FREIGHT AND DUTY:**

The Prices quoted in our catalogues and Price lists are Ex-Works, Lurate, Pozzolo, Italy. Freight and Duty will be charged at the applicable rates valid at the time of delivery.

## **6- PACKING:**

Were necessary, any special packaging will be charged at cost

## **7- LIABILITY:**

Goods supplied will be the responsibility of the buyer during transportation

## **8- DELIVERY:**

### **A) Standard Products:**

All incoming Purchase Orders will be acknowledged within 24 hours of receipt. Delivery dates will be confirmed and wherever possible, goods will be shipped within the following working day.

For goods not available from stock, our employees will provide delivery information based on that available from within the Gerardi system. We do not accept any responsibility for delays in delivery due to circumstances that are beyond our control. Partial shipments for Purchase Orders with multiple units can be made. Cancellation of Purchase Orders cannot be made without agreement with Gerardi Spa, requests to cancel a Purchase Order must be made in writing and agreed and approved by Gerardi Spa.

### **B) Non-Standard or Special Products:**

All incoming Purchase Orders for Non-Standard or Special Products will be acknowledged within 48 hours of receipt and delivery dates will be confirmed as soon as practically possible.

Cancellation of Purchase Orders cannot be made without agreement with Gerardi Spa, requests to cancel a Purchase Order for Non-Standard Products must be made in writing and agreed and approved by Gerardi Spa. Any costs incurred at the time of cancellation will be to the customers account.

## **9- OFFER VALIDITY:**

Any complaint regarding shipment of goods from Gerardi S.p.A, must be made in writing within 8 days of receipt of the said goods.

## **10- COMPLAINT:**

Any item and component and each shipment is checked carefully and any possible complaints must be written, within 8 days from goods receiving.

## **11- GUARANTEES:**

All Gerardi spa products carry a 1 Year guarantee. This guarantee covers the performance, accuracy, quality and technical features stated in our catalog. Non-conforming products will be exchanged without charge

or expense for any failure caused by defective work or components, supplied or carried out by Gerardi Spa. Any items or components that have been modified, damaged or suffered fair wear and tear, are excluded from this guarantee.

## **12- RETURNS POLICY:**

The following procedure must be followed when returning goods, regardless of the reason for the return.

**A)** gerardi spa must receive written notification regarding any goods that are being returned, this notification must be received within 8 days of receipt of the goods. this notification must be sent in writing to gerardi spa.

**B)** goods should not be returned until gerardi spa has authorized the return and provided a delivery address to which the goods should be sent.

**C)** when returning goods, details of the invoice and any other relevant information must accompany the goods.

**D)** goods being returned must be returned free of charge.

**E)** goods should be returned in the original packaging and be without damage or wear.

**F)** a total of 10% of the invoiced value of the goods will be deducted from any credit note which gerardi issues, this charge is to cover administration and re-stocking charges only.

## **13-JURISDICTION:**

Purchasers agree to submit any claim or discussion related to these Standard Conditions of Sale to the relevant and competent Law Courts that will be in Busto Arsizio (VA) Italy whose decision will be final.



**PIÙ SEMPLICE / PIÙ INFO / PIÙ PRODOTTI - EASIER / MORE INFO / MORE PRODUCTS**

TROVA IL TUO PRODOTTO IN POCHI CLICK - FIND YOUR PRODUCT IN FEW CLICKS



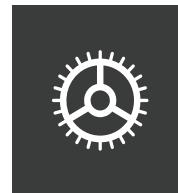
by category



by code



by description



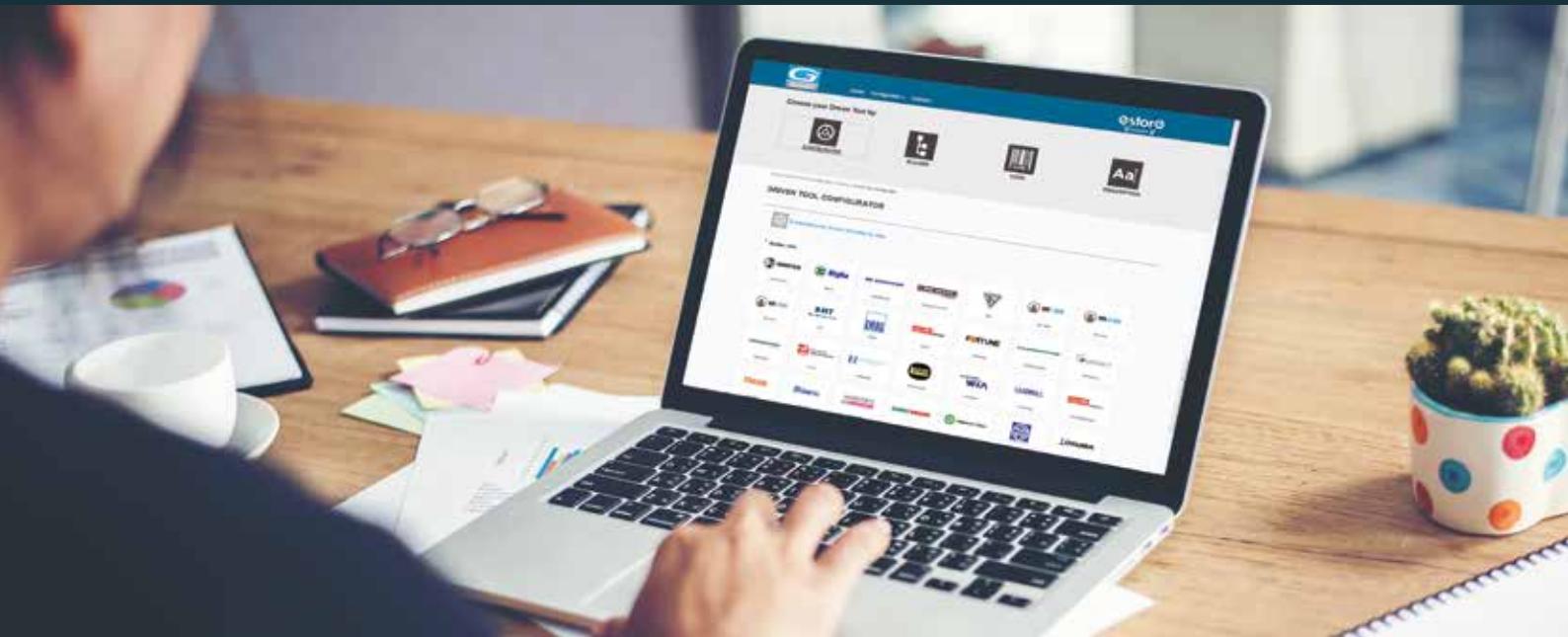
by configurator

#### Un nuovo modo facile e veloce per ordinare la tua attrezzatura Gerardi

Il nuovo Gerardi estore offre la possibilità di visualizzare e ordinare qualsiasi articolo Gerardi appartenente alle categorie Workholding o Tooling presenti sui nostri listini in modo semplice, veloce e completo. Da ora puoi ordinare la morsa, la testa angolare o il motorizzato che ti interessa direttamente on-line dal nostro estore senza costi aggiuntivi.

A new quick and easy way to order your equipment branded Gerardi.

The new Gerardi estore offers the ability to view and order any item available on our Workholding and Tooling catalogues with the easiest, fastest and comprehensive way. You can now order the vise, angle head or driven tool of your interest directly online from our store without any additional cost.





1

## Classic Line

# TESTE ANGOLARI - ANGLE HEADS



MADE IN ITALY



# INDICE - INDEX

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**LIGHT**  
series

**MINI**  
<sub>90°</sub>  
series

**STD 90°**  
series

## ATC - AUTOMATIC TOOL CHANGE

GL90-7	G90-3 100	GS90-2	G90-20 / 20L
GL90-10	G90-3 200	G90-5	G90-30 / 30L
GL90-16	G90-3 300	G90-7 / 7L	G90-20L/272
GTU-10	G90-3 300 S	G90-10 / 10L	G90-S40/280
		G90-16 / 16L	G90-S40 / S40L

**1.47 - 1.57**
**1.58 - 1.62**
**STD 90°**  
series

**XL**  
series

## MTC - MANUAL TOOL CHANGE

G90-5	G90-30 / 30L	G90-S40
G90-7 / 7L		G90-S40 XL
G90-10 / 10L		G90-S40 XLxx
G90-16 / 16L		G90-S50
G90-20 / 20L		G90-S50 XLxx

**1.76 - 1.85**

# 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 PERO SPECIALE**  
SPECIAL PIN GROUP

**SISTEMA ANTIROTANTE MULTIPONT**  
MULTIPOINT ANTIROTATION SYSTEM

1.34 - 1.37

**NEW**

1.30 - 1.33

1.34 - 1.39

1.40 - 1.43

series  
**EXTENDED**

series  
**GMU**

series  
**DOUB2E**

series  
**OFFSET**

## ATC - AUTOMATIC TOOL CHANGE

G90-10L 240

GMU-13

G90-16 / 16L 2U

GR90-5

G90-16L 270

GMU-13L

G90-20 / 20L 2U

GR90-10

G90-20L 332

GMU-16

G90-30 / 30L 2U

GR90-16

G90-30L 287

GMU-20

GR90-S40

1.63 - 1.67

1.68 - 1.73

series  
**GMU**

series  
**DOUB2E**

## 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

1.86 - 1.89

1.90 - 1.91

## 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

PINZE / GHIERE / CHIAVI  
COLLETS / NUTS / WRENCHES

### ATC & MTC

# 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., correddati 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 obliqui, 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.


**Prolunga**

# 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.

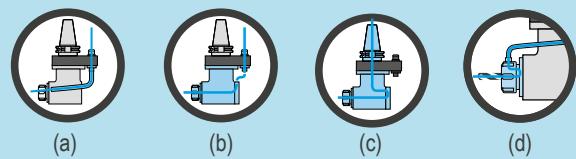
**INTEGRAL  
Shank & Shaft**



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 lubrication 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 mesh, more power transmitted, longer gear life, almost no noise
  - 5- New types of longer angular heads with reduced weights and overall 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 transferred 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 length of the body by adding a spacer.

The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.



## Novità / News

# Linea Classic / Classic Line



### Teste angolari integrali

Integral angle heads



*series*  
**MINI** 90°

La nuova serie di teste angolari con mandrino ad angolo intercambiabile per lavorazioni con utensile da Ø1,6 a Ø3

New series of angle heads with interchangeable angle chuck for machining with Ø1,6 to Ø 3



*series*  
**EXTENDED**

La serie di teste angolari EXTRA LUNGHE con torretta riportata.

New EXTENDED series angle heads with reported turret.



*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



*series*  
**OFFSET**

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

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

## Esempi applicativi / Applications examples

# Linea Classic / Classic Line

### Teste angolari integrali serie ATC (Cambio utensile automatico)

Integral angle heads ATC series (Automatic tool change)



*series*  
**MINI** 90°

**La nuova serie di teste angolari con mandrino ad angolo intercambiabile per lavorazioni in ingombri minimi**  
New series of angle heads with interchangeable angle chuck for machining in minimum overall spaces



*series*  
**EXTENDED**

**La serie di teste con torretta riportata ideale per fresature, forature e maschiature in profondità.**  
The angle head series with reported turret for deep milling, drilling and tapping.



*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



*series*  
**GMU**

**La serie di teste angolari con angolazione regolabile da 0 a 90°. Spina di posizionamento rapido (Step 15°)**  
Angle heads series with adjustable angle from 0 to 90°. Quick positioning pin (Step 15°)



*series*  
**DOUB2E**

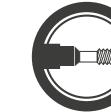
**La serie di teste angolari ideali per fresature, forature e maschiature attraverso 2 mandrini contrapposti di 180°**  
Angle Heads series for milling drilling and tapping through 2 opposite outputs



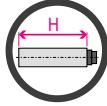
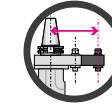
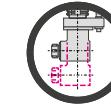
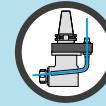
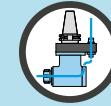
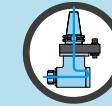
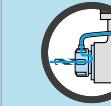
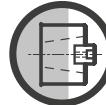
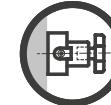
*series*  
**OFFSET**

**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

## SIMBOLOGIA DATI TECNICI TECHNICAL DATA LOGOS

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

## INDICE OPZIONI OPTIONS INDEX

<b>OPZIONI</b> OPTIONS						
	<b>Prolunga per mandrino ad angolo</b> Extension for angular chuck	<b>Alta velocità</b> High speed	<b>Spina per posizionamento rapido</b> Quick positioning pin	<b>Interasse speciale</b> Special pitch	<b>Lunghezze speciali</b> Special lenght	<b>Flangia Multipoint</b> Multipoint flange
<b>PASSAGGIO REFRIGERANTE</b> COOLANT						
		<b>Attraverso il perno</b> Through the Pin  <b>10bar (standard)</b>	<b>Perno » Distrib » Utensile</b> Pin » Distributor » Tool <b>10bar</b>	<b>Cono » Distrib » Utensile</b> Shank » Distributor » Tool <b>30 / 40 / 70bar</b>	<b>Distributore » Utensile</b> Distributor » Tool <b>10bar</b>	<b>Perno » Ghiera » Utensile</b> Pin » Distrib » Tool <b>ReCool NUT</b>
<b>USCITA</b> OUTPUT						
	<b>Mandrino ad angolo</b> Angular chuck	<b>Uscita HSK</b> HSK output	<b>Uscita ISO</b> ISO output	<b>Uscita portafresa</b> Toolholder output	<b>Uscita WELDON</b> WELDON output	<b>Uscita C.</b> C. output
						<b>Doppia uscita</b> Double output

# ATC SERIES

## AUTOMATIC TOOL CHANGE

1

### 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 bushing and gasket



### DESIGN

Il Design compatto, insieme alle specifiche descritte, consente: alte performances, 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



### USCITE - OUTPUTS:

- Portapinza ER (standard)
  - Weldon
  - Portafresa
  - Speciale
- ER collet (standard)
  - Weldon
  - Shell mill holder
  - Special

#### 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

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.

**GL90-7**

TYPE 0

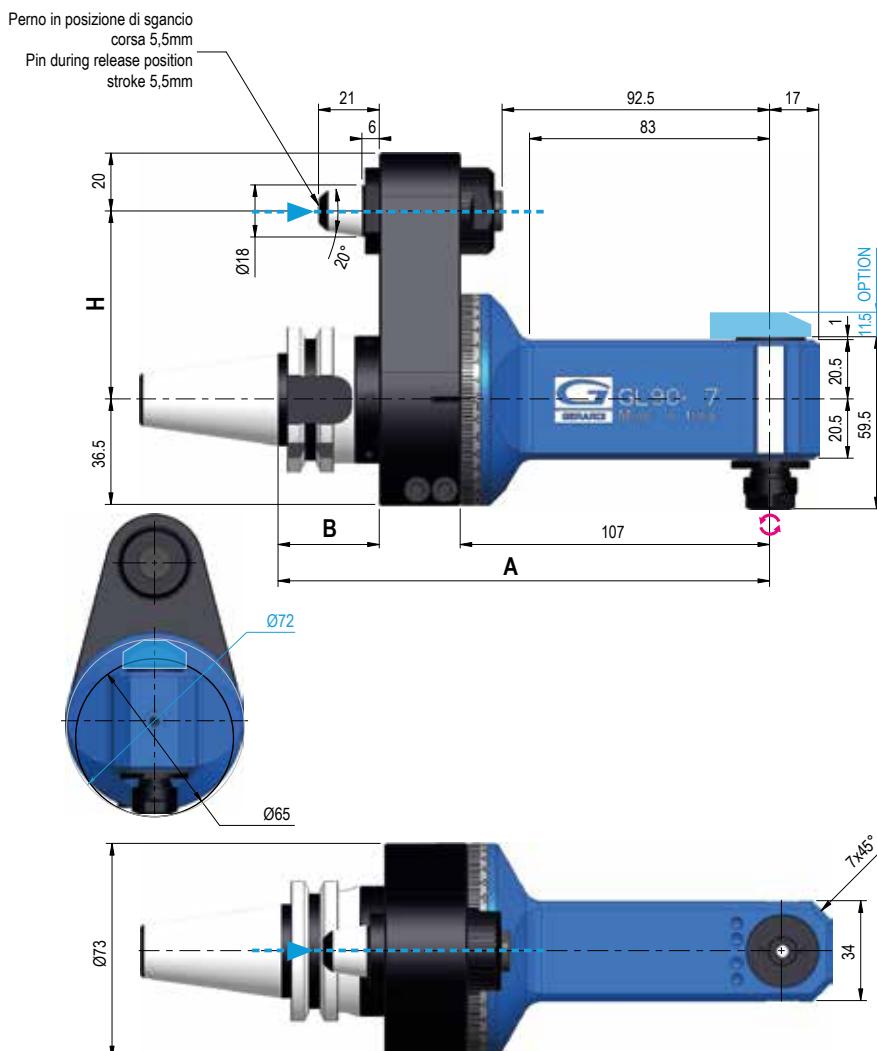
Code:

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	50 / 63
Prezzo EXTRA Price €	std      std	std	std      std	optional
Standard	65 / 80	65 / 80	65 / 80	65 / 80
H Optional 110 EXTRA Price €	optional	optional	optional	optional
A	150	150	145	157
B	35	35	30	42

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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



REFR. DALPERNO  
COOLANT PIN THROUGH

DRY RUNNING POSSIBLE

Max 10 bar

optional

DOPPIA USCITA  
DOUBLE OUTPUT

ER 11 / ER 8M

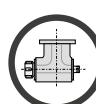
optional

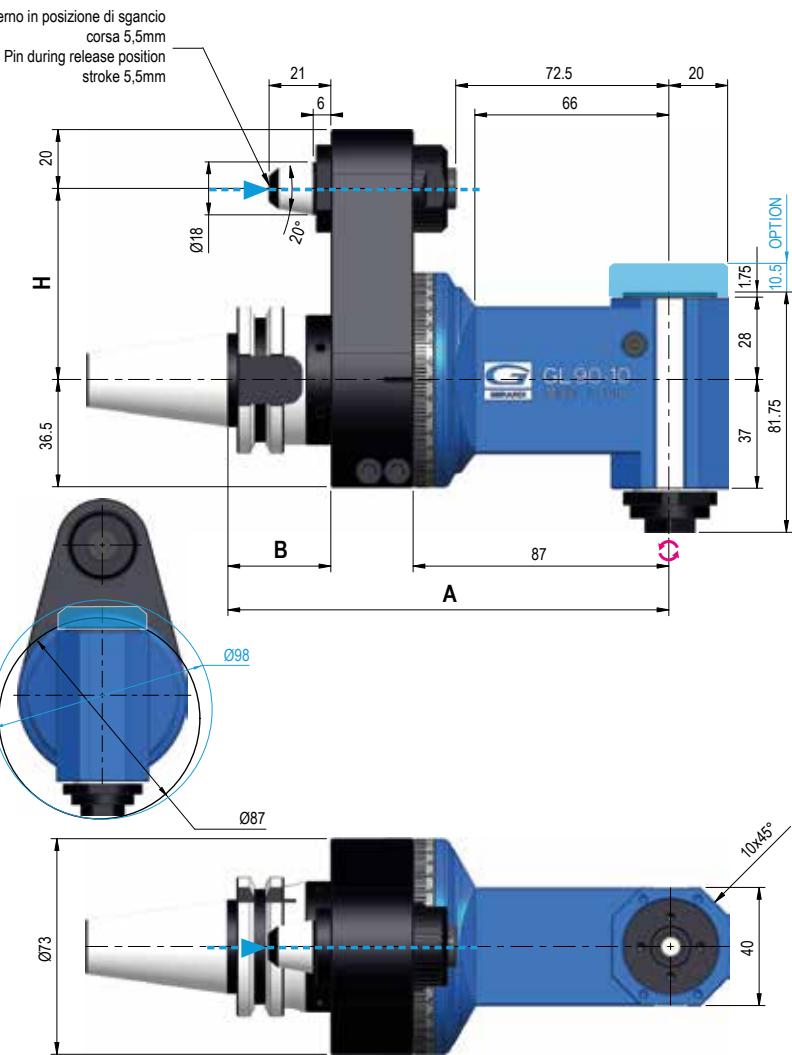


USCITA  
OUTPUT

Weldon Max Ø 6

optional




**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	157
B	35	35	30	42

**Dotazione Standard  
Standard Equipment**
**Opzioni - Options**

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

REFR. DAL PENO  
COOLANT PIN THROUGH

DRY RUNNING POSSIBLE

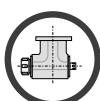
Max 10 bar

optional

DOPPIA USCITA  
DOUBLE OUTPUT

ER 11 / ER 8M

optional

USCITA  
OUTPUT

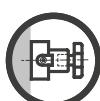
Weldon Max Ø 6

optional

USCITA  
OUTPUT

Portafresa - Toolholder Ø13

optional



IMBALLO & PESO  
PACK & WEIGHT: Max. Kg



**GL90-16**

TYPE 1

Code:

9.GL9.16000

Price:

**Dati tecnici - Technical data**Ratio  
1:1ISO/BT40  
5,1 Kg  
ISO/BT50  
7,2 KgRpm  
8.000

Ø 16



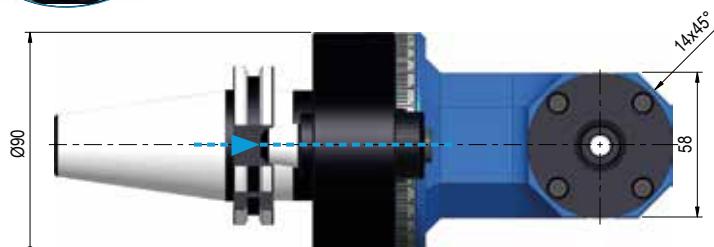
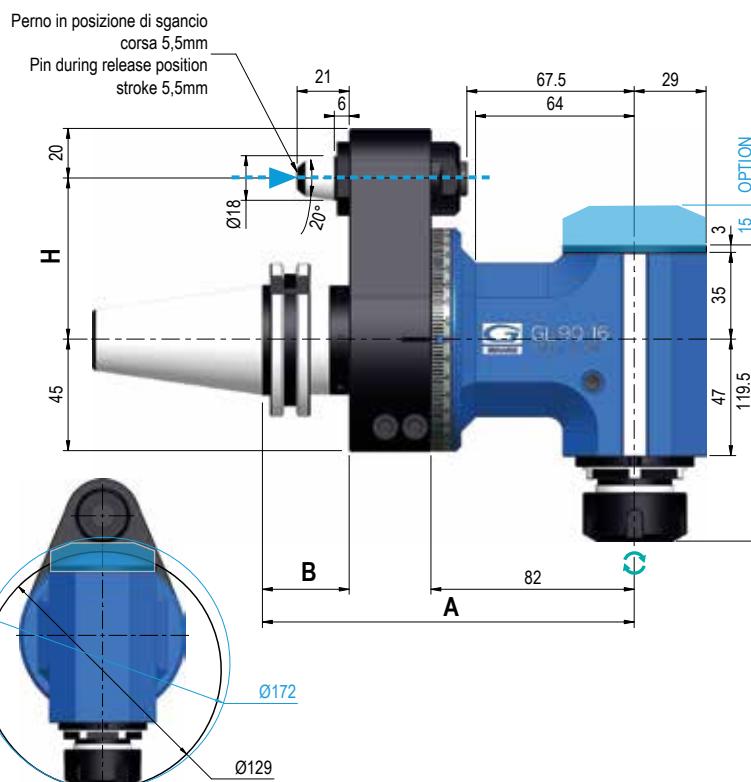
N 510



M 12



Nm 24

ER25  
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	63	80
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 EXTRA Price €	optional	optional	optional	optional	optional
A	150	150	150	157	160
B	35	35	35	42	45
153					155
40					

**Dotazione Standard  
Standard Equipment****Opzioni - Options**

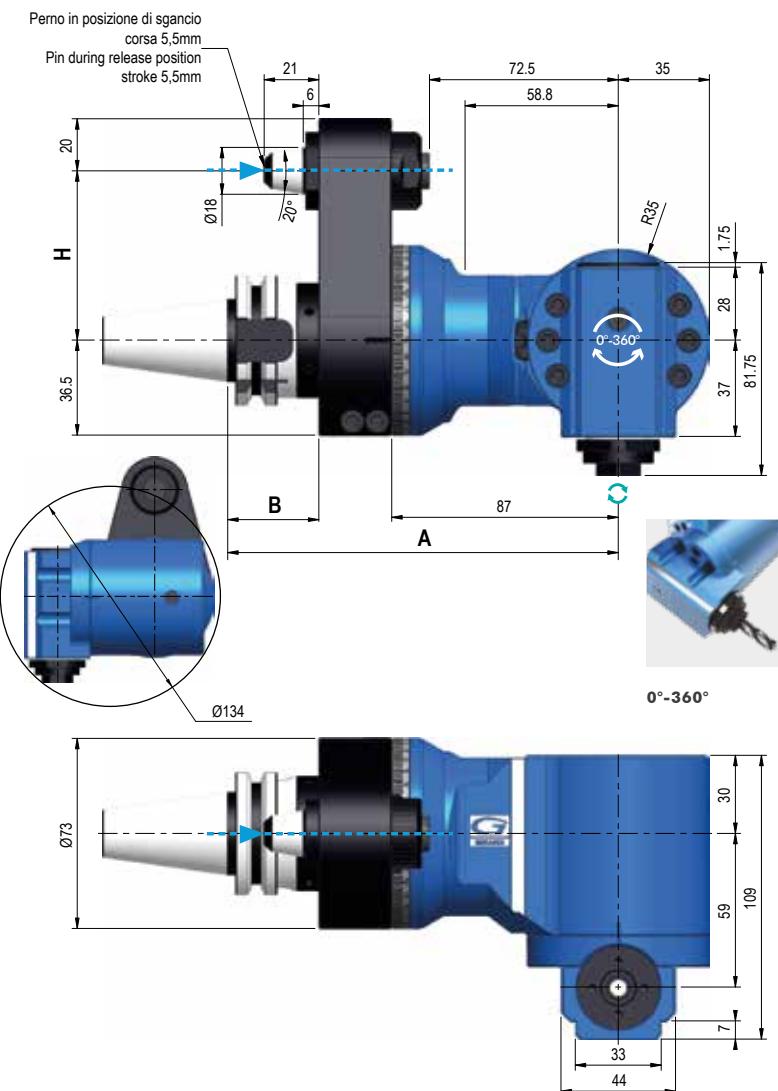
Valigetta - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni  
Special bag - Stop-block - ER nut - Wrenches - Grease tube - Instruction book

**IMBALLO & PESO**

PACK &amp; WEIGHT: Max. Kg



 REFR. DAL CONICO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> Max 40 bar optional	 REFR. DAL PENO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional	 USCITA OUTPUT Weldon max Ø16 optional	 USCITA OUTPUT Portafresa Toolholder 16 optional
 USCITA OUTPUT HSK 32 optional	 DOPPIA USCITA DOUBLE OUTPUT ER25 - ER16M optional		


**GTU-10**

TYPE 0

9.GTU.10000

Code:

Price:


**Dati tecnici - Technical data**
Ratio  
1:1ISO/BT40  
3,8 KgRpm  
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	optional    optional    optional	optional
H Standard	65 / 80	80	65 / 80	80	65 / 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**
**Opzioni - Options**

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 &amp; WEIGHT: Max. Kg

USCITA  
OUTPUT

Weldon Max Ø10

optional

SPINA POSIZIONE RAPIDA  
QUICK POSITIONING PINAngolazioni personalizzate  
Customized angles

optional

ALTA VELOCITÀ  
HIGH SPEED

8.000 Rpm

**G90-3 100**

TYPE 1

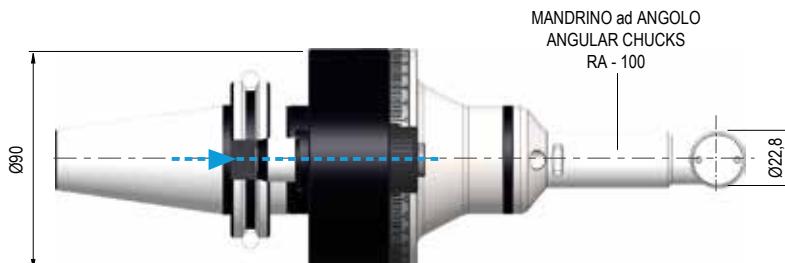
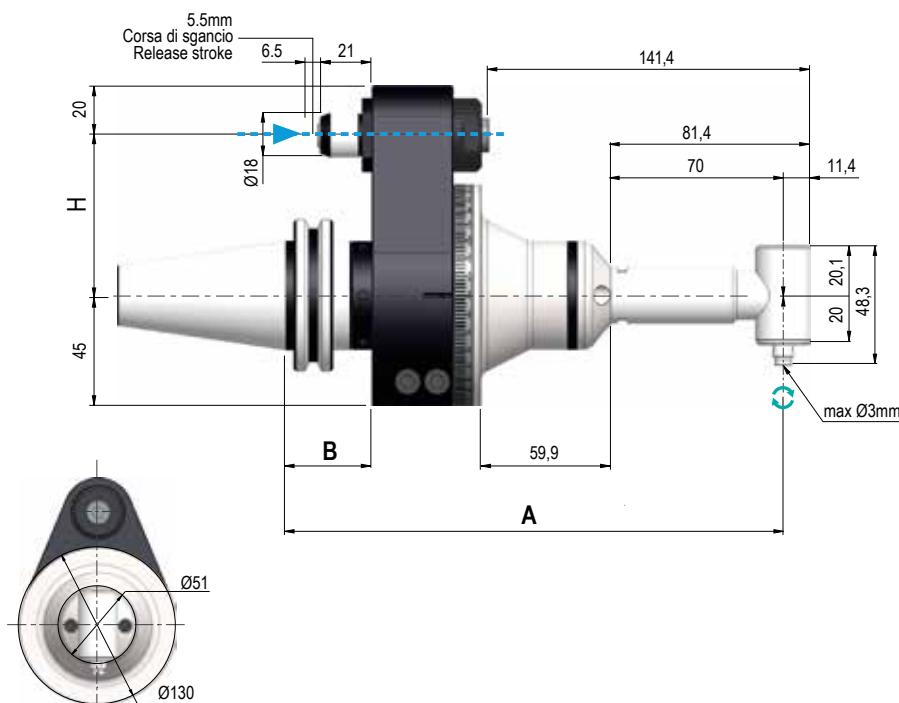
Code:

9.G90.03100

Price:

**Dati tecnici - Technical data**

	Ratio 1:2,67		Kg 3,8
	Rpm 7.490		Max Ø3
	Nm 4		CH8: Ø 3mm



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	optional	optional	optional	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	202		202		202		208		209		
B	35		35		35		41		42		
A		205		207		212		205		207	
B		38		45		40					

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

Valigetta - Stop-block - Chiavi di servizio -  
Tubetto di grasso - Libro istruzioni -  
Special bag - Stop-block - Wrenches -  
Instruction book

**IMBALLO & PESO**  
PACK & WEIGHT: Max. - Kg

MANDRINO AD ANGOLO  
ANGULAR CHUCKS

RA-200

optional

MANDRINO AD ANGOLO  
ANGULAR CHUKS

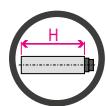
MFC-300 S

optional

MANDRINO AD ANGOLO  
ANGULAR CHUKS

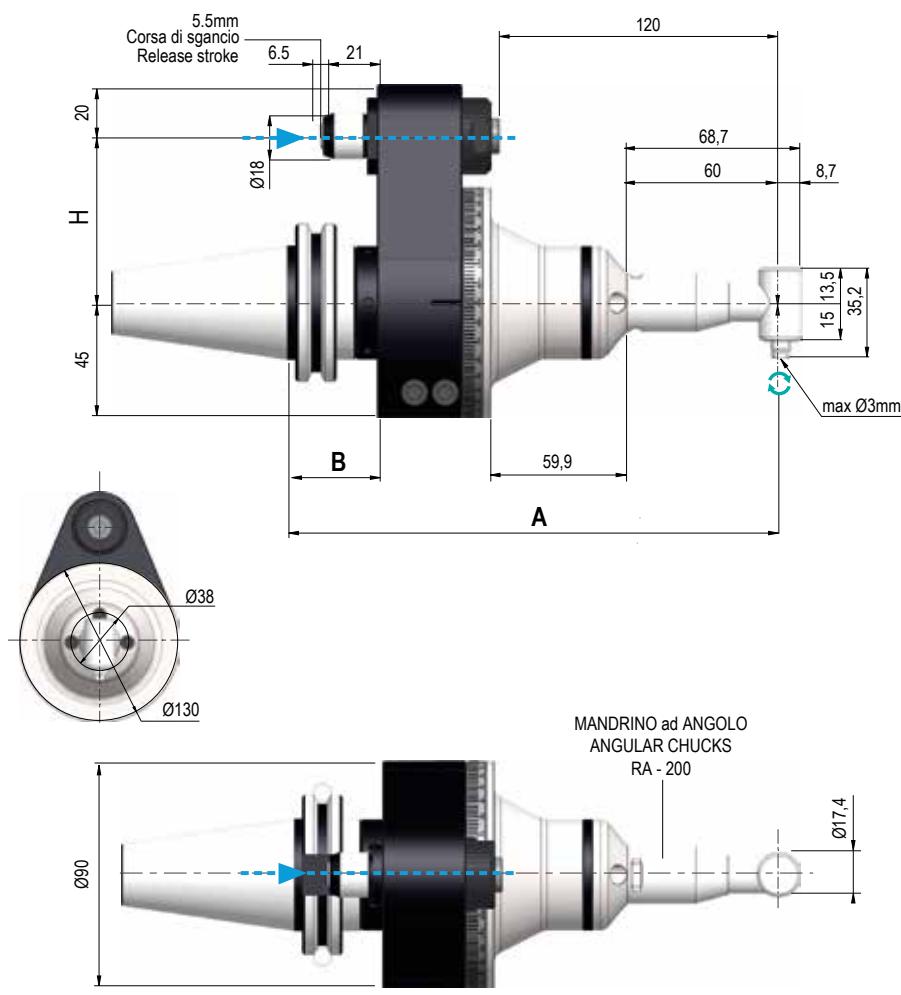
IC-300

optional

PROLUNGA  
EXTENSION CN-01

H=50,1 mm

optional


**G90-3 200**

TYPE 1

9.G90.03200

Code:

Price:


**Dati tecnici - Technical data**

	Ratio 1:1,5		Kg 3,7
	Rpm 13.300		Max Ø3
	Nm 4		CHS: Ø 3mm



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	optional	optional	optional	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		192		192		192	198	199	202	195
B		35		35		35	41	42	45	38
										197

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

Valigetta - Stop-block - Chiavi di servizio -  
 Tubetto di grasso - Libro istruzioni  
 Special bag - Stop-block - Wrenches -  
 Instruction book

**IMBALLO & PESO**  
 PACK & WEIGHT: Max. Kg
MANDRINO AD ANGOLO  
ANGULAR CHUKS

RA-100

optional

MANDRINO AD ANGOLO  
ANGULAR CHUKS

IC-300

optional

MANDRINO AD ANGOLO  
ANGULAR CHUKS

MFC-300 S

optional

PROLUNGA  
EXTENSION CN-01

H=50,1 mm

optional



series  
MINI 90°

Classic Line - ATC Series  
ANGLE HEADS

1

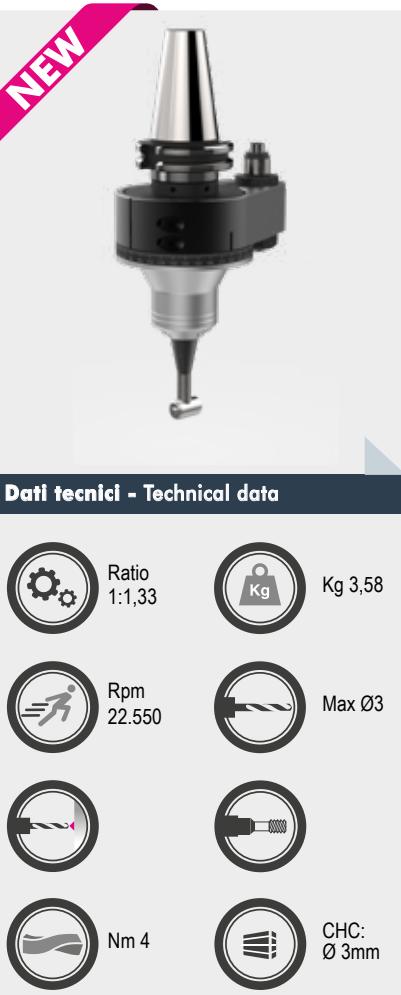
G90-3 300

TYPE 1

Code:

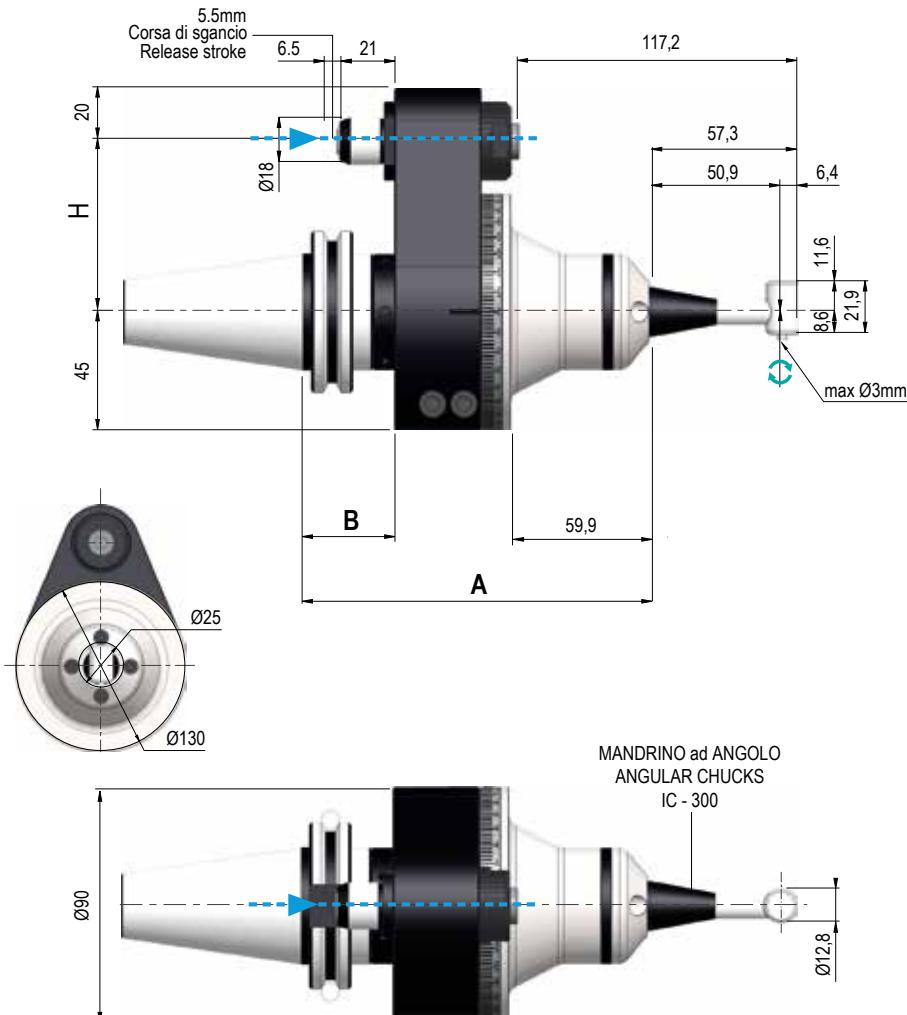
9.G90.03300

Price:



#### Dati tecnici - Technical data

	Ratio 1:1,33		Kg 3,58
	Rpm 22.550		Max Ø3
	Nm 4		CHC: Ø 3mm



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	63	80
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard	65 / 80	80	65 / 80	80	65 / 80
H Optional 110 EXTRA Price €	optional	optional	optional	optional	optional
A	183	183	183	190	193
B	35	35	35	42	45
				186	188
					40

#### Dotazione Standard Standard Equipment

#### Opzioni - Options

Valigetta - Stop-block - Chiavi di servizio -  
Tubetto di grasso - Libro istruzioni -  
Special bag - Stop-block - Wrenches -  
Instruction book

**IMBALLO & PESO**  
PACK & WEIGHT: Max. - Kg



MANDRINO AD ANGOLO  
ANGULAR CHUKS

RA-100



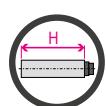
MANDRINO AD ANGOLO  
ANGULAR CHUKS

RA-200



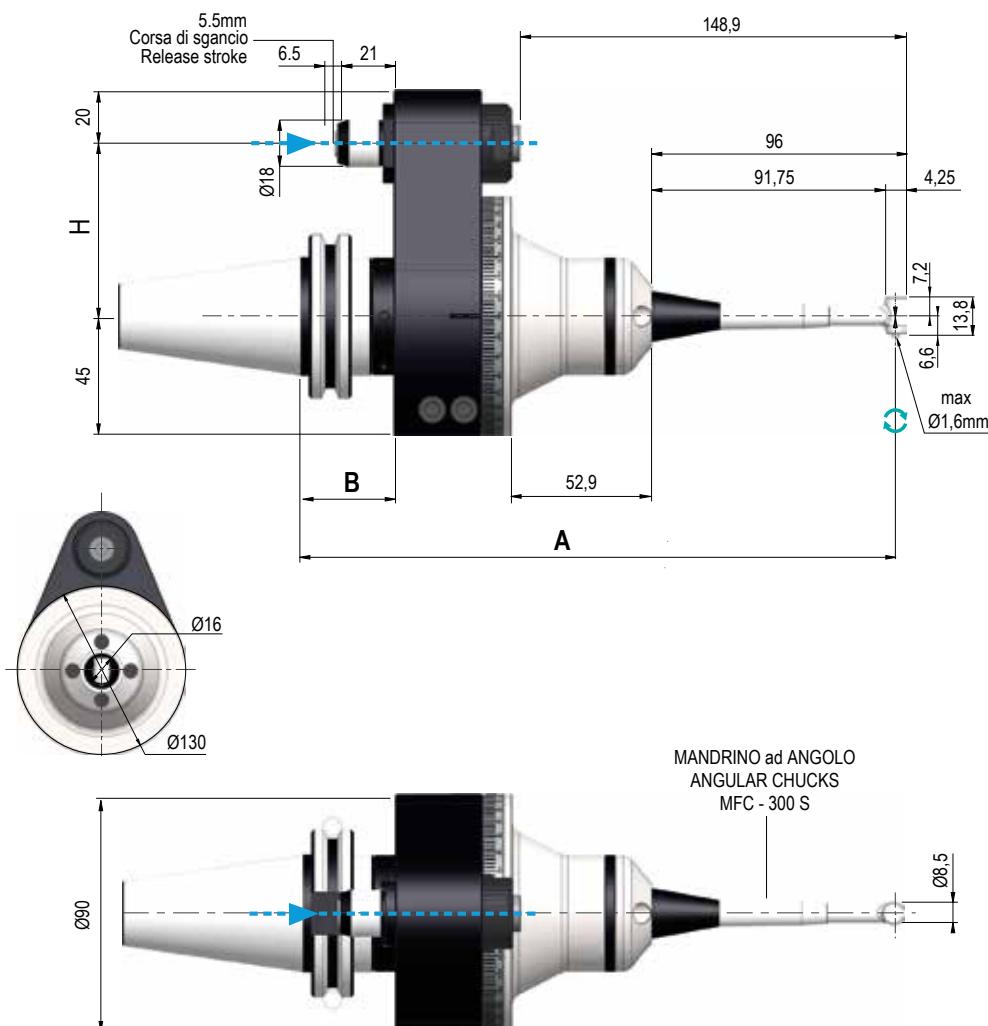
MANDRINO AD ANGOLO  
ANGULAR CHUKS

MFC-300 S



PROLUNGA  
EXTENSION CN-01

H=50,1 mm



## G90-3 300S

TYPE 1

9.G90.0330S

Code:

Price:



### Dati tecnici - Technical data

	Ratio 1:1,1		Kg 3,6
	Rpm 13.636		Max Ø1,6
	Nm 4		K252: Ø1,6mm



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	63	80
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 EXTRA Price €	optional	optional	optional	optional	optional
A	223,8	223,8	223,8	229,8	230,8
B	35	35	35	41	42
				233,8	226,8
					228,8

**Dotazione Standard  
Standard Equipment**
**Opzioni - Options**

 Valigetta - Stop-block - Chiavi di servizio -  
 Tubetto di grasso - Libro istruzioni -  
 Special bag - Stop-block - Wrenches -  
 Instruction book

**IMBALLO & PESO  
PACK & WEIGHT:**

 MANDRINO AD ANGOLO  
 ANGULAR CHUCKS

RA-100

optional


 MANDRINO AD ANGOLO  
 ANGULAR CHUCKS

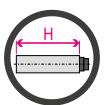
RA-200

optional


 MANDRINO AD ANGOLO  
 ANGULAR CHUCKS

IC-300

optional


 PROLUNGA  
 EXTENSION CN-01

H=50,1 mm

optional

**GS90-2**

TYPE 0

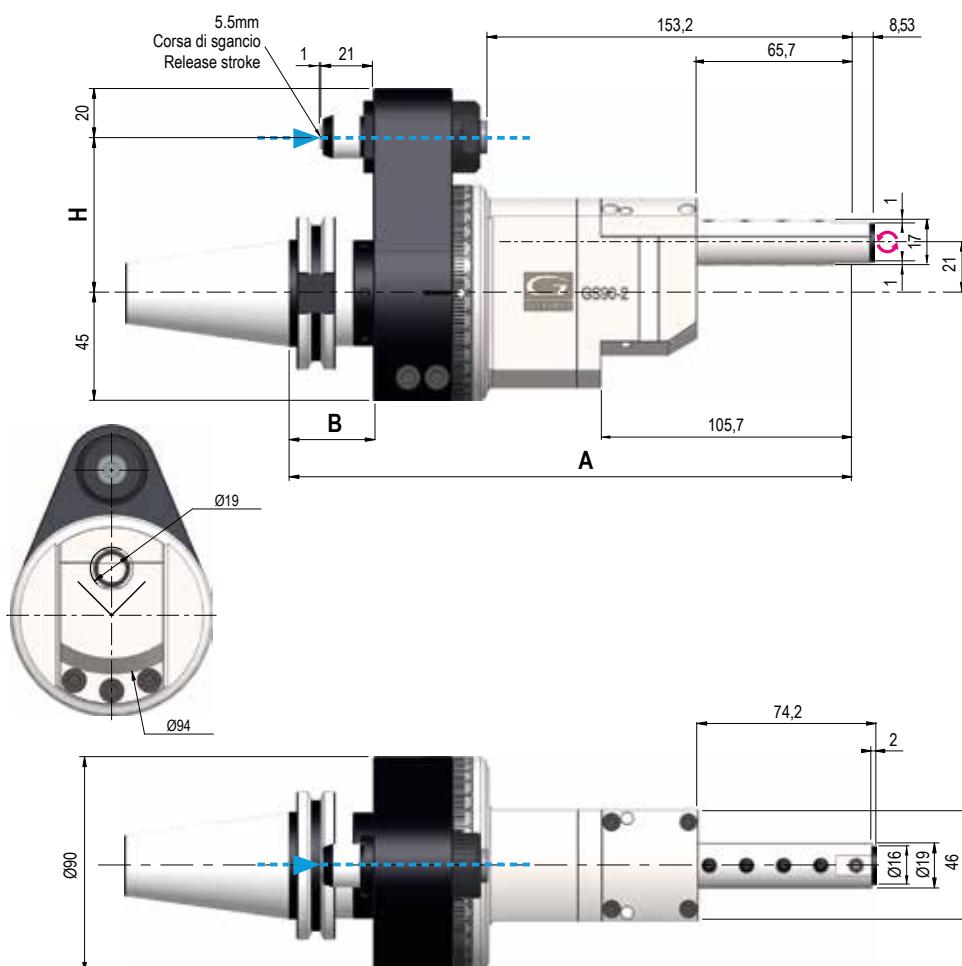
Code:

9.GS9.02000

Price:

**Dati tecnici - Technical data**

	Ratio 1:2.475		ISO/BT40 4,96 Kg
	Rpm 6.000		Ø-
	N-		M-
	Nm 1.6		CH4 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    opt.	optional    optional    optional	optional
H Standard	65 / 80	80	65 / 80	80	65 / 80
H Optional 110 EXTRA Price €	optional	optional	optional	optional	optional
A	235,7	235,7	230,7    235,7    241,7	242,7	245,7
B	35	35	30    35    41	42	45

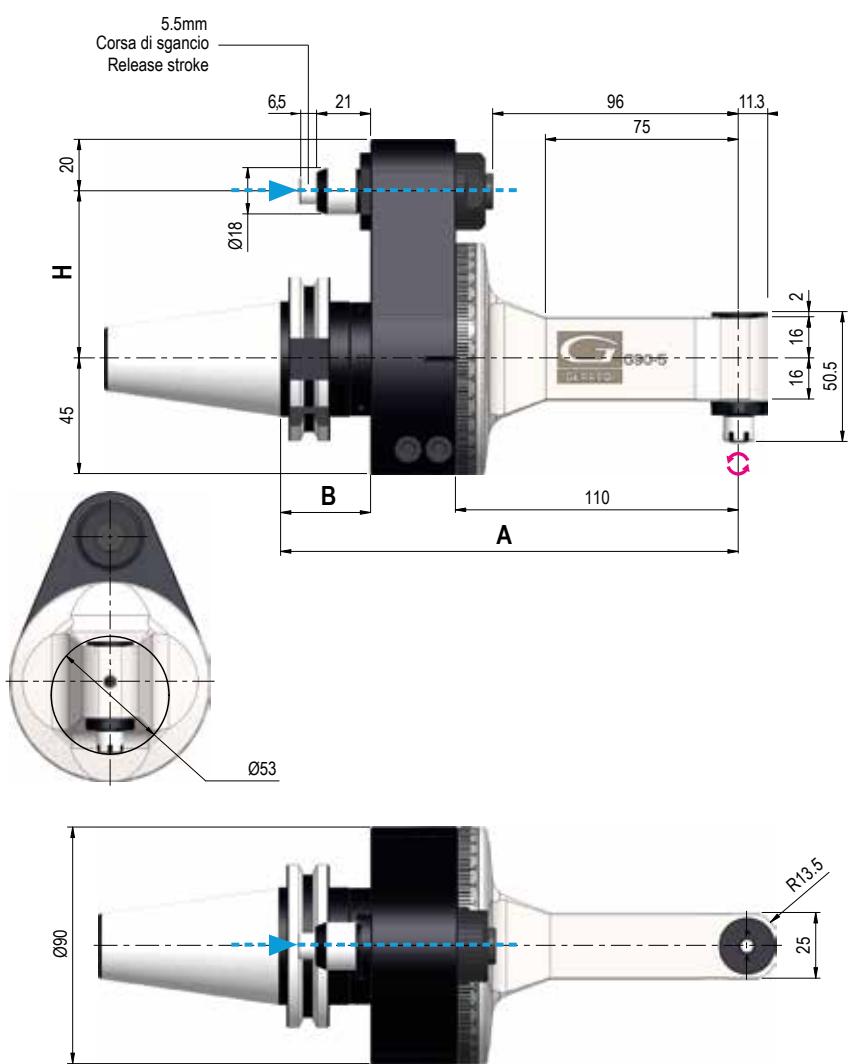
**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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 &amp; WEIGHT: Max. Kg


 USCITA  
 OUTPUT  
 Weldon Max Ø 6  
 optional


**G90-5**

TYPE 1

Code:

9.G90.05000

Price:


**Dati tecnici - Technical data**

	ISO/BT30 Ratio 1:1		ISO/BT40 4 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	optional	optional	optional	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**
**Opzioni - Options**

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 &amp; WEIGHT: Max. Kg



USCITA  
OUTPUT  
Weldon Max Ø 6  
optional

**G90-7**

TYPE 1

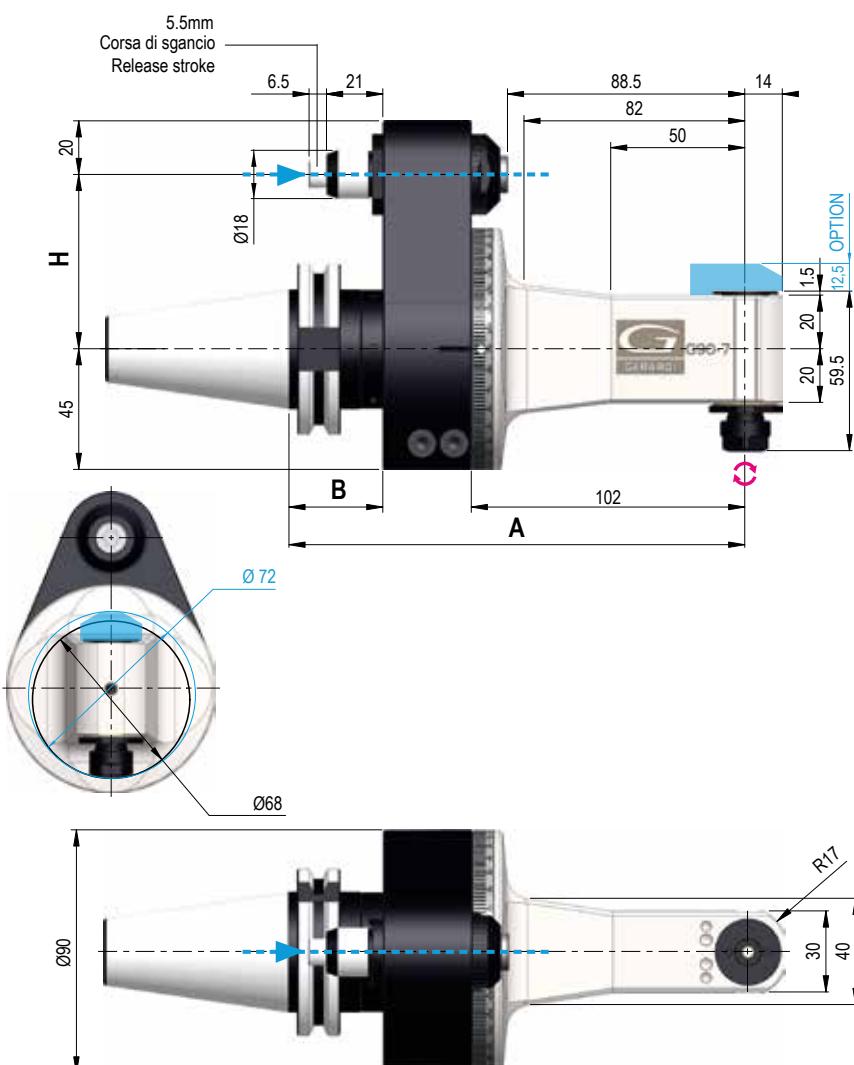
Code:

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	optional    optional    optional	optional
H Standard	65 / 80	80	65/80	80	65 / 80
H Optional 110 EXTRA Price €	optional	optional	optional	optional	optional
A	170	170	165    170    176	177	180
B	35	35	35    35    41	42	45
					173    175

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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

REFR. DAL PERNO  
COOLANT PIN THROUGH

DRY RUNNING POSSIBLE

Max 10 bar

optional

DOPPIA USCITA  
DOUBLE OUTPUT

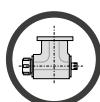
ER 11 / ER 8M

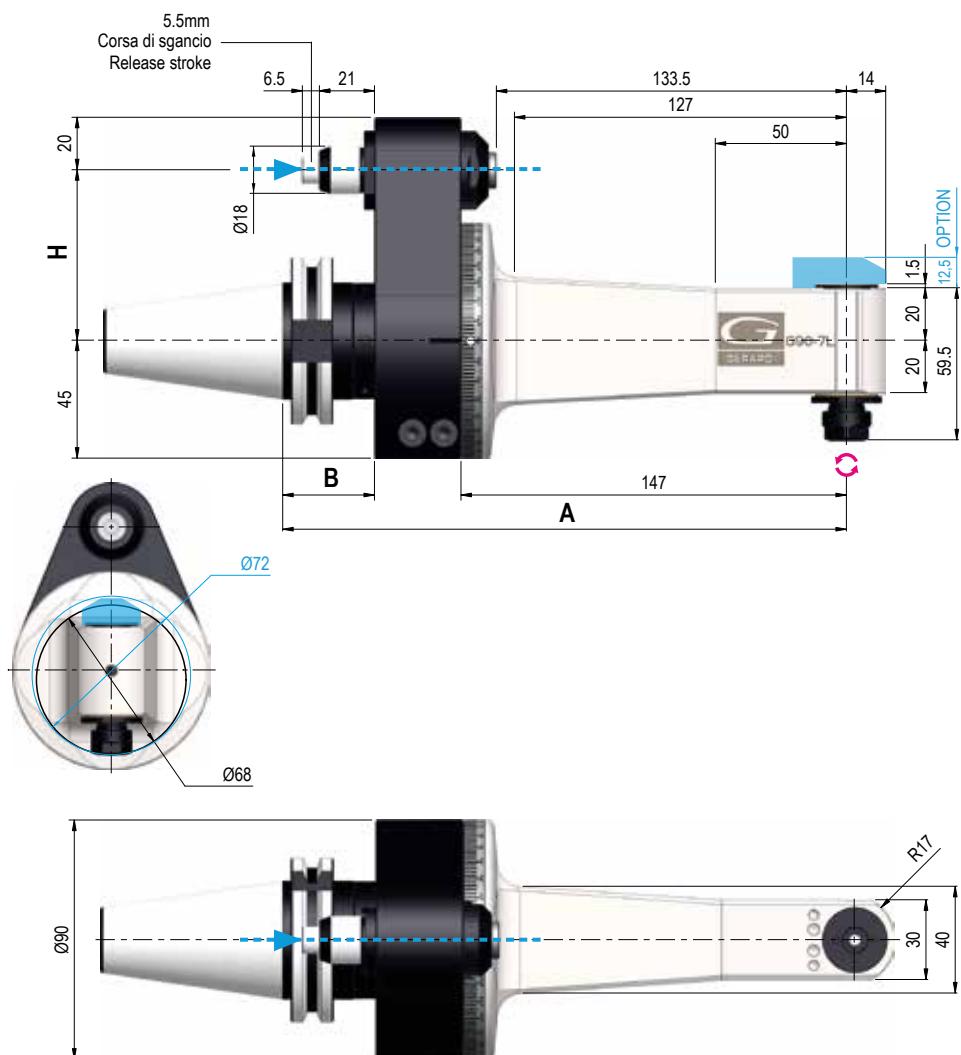
optional

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	optional	optional	optional	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**
**Opzioni - Options**

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


 REFR. DAL PERNÒ  
 COOLANT PIN THROUGH

DRY RUNNING POSSIBLE

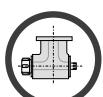
Max 10 bar

optional

 DOPPIA USCITA  
 DOUBLE OUTPUT

ER 11 / ER 8M

optional

USCITA  
OUTPUT

Weldon Max Ø 8

optional



**G90-10**

TYPE 1

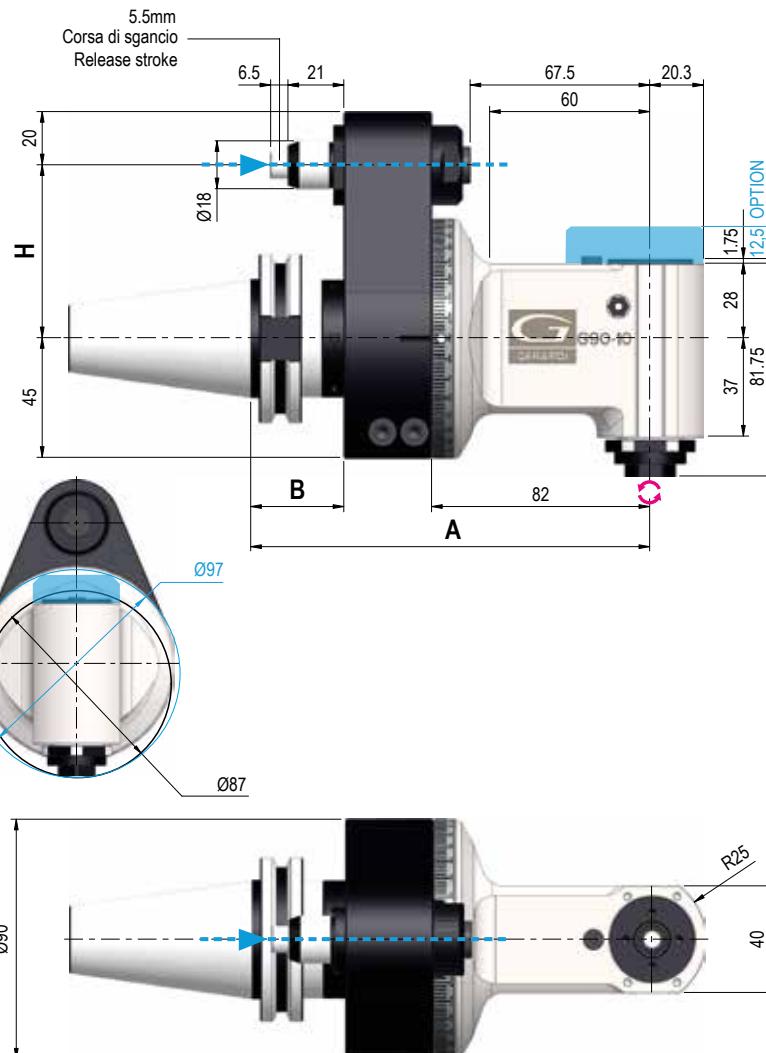
Code:

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    optional	opt.    std    std	optional    optional    optional	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
B	35	35	30    35    41	42	45
					153    155
					40

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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

REFR. DAL PERNOD  
COOLANT PIN THROUGH**DRY RUNNING POSSIBLE**

Max 10 bar

optional

USCITA  
OUTPUT

Weldon Max Ø10

optional

USCITA  
OUTPUT

Toolholder Ø16

optional

REFR. DAL PERNOD  
COOLANT PIN THROUGH**DRY RUNNING NOT POSSIBLE**

Max 40 bar

optional

DOPPIA USCITA  
DOUBLE OUTPUT

ER16 - ER11 M

optional

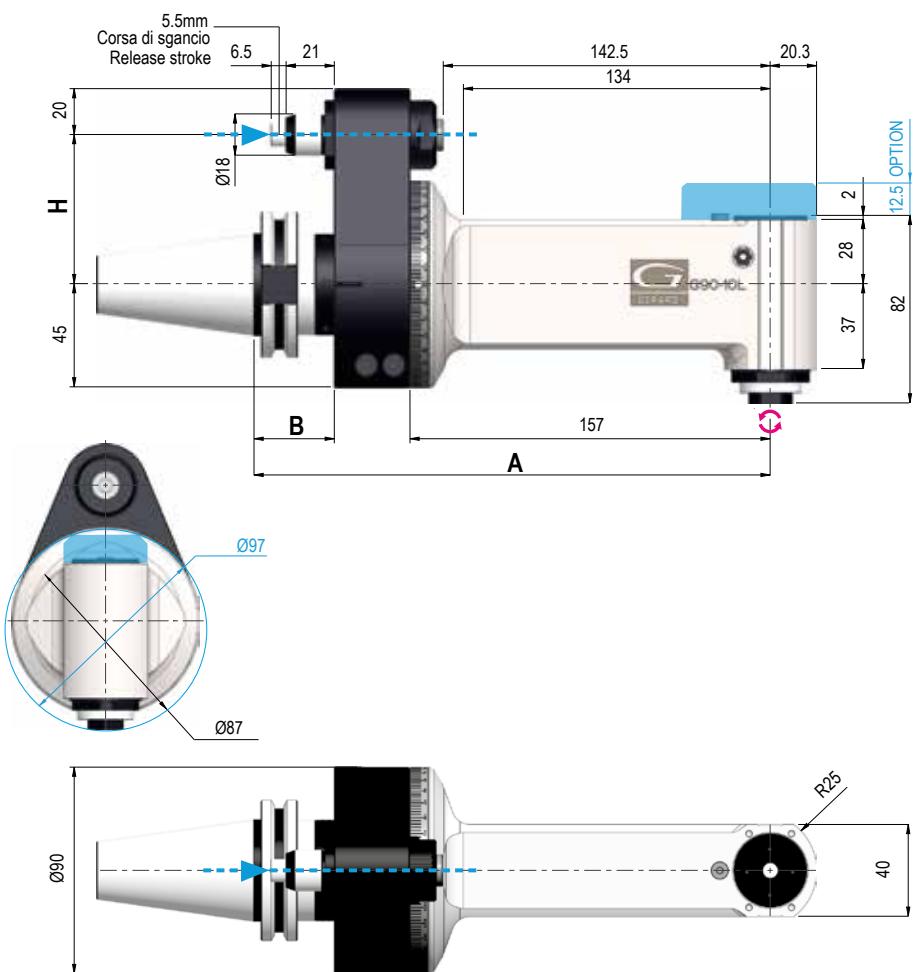
**G90-10L**

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	optional	optional	opt.	std	std	optional	optional	optional	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**
**Opzioni - Options**

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 &amp; WEIGHT: Max. 10,5 Kg


 REFR. DAL PERNONE  
 COOLANT PIN THROUGH

**DRY RUNNING POSSIBLE**

Max 10 bar

**optional**

 USCITA  
 OUTPUT

Weldon Max Ø10

**optional**

 USCITA  
 OUTPUT

Toolholder Ø16

**optional**

 REFR. DAL PERNONE  
 COOLANT PIN THROUGH

**DRY RUNNING NOT POSSIBLE**

Max 40 bar

**optional**

 DOPPIA USCITA  
 DOUBLE OUTPUT

ER16 - ER11 M

**optional**

**G90-16**

TYPE 1

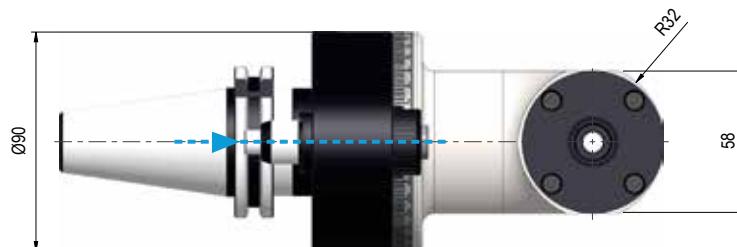
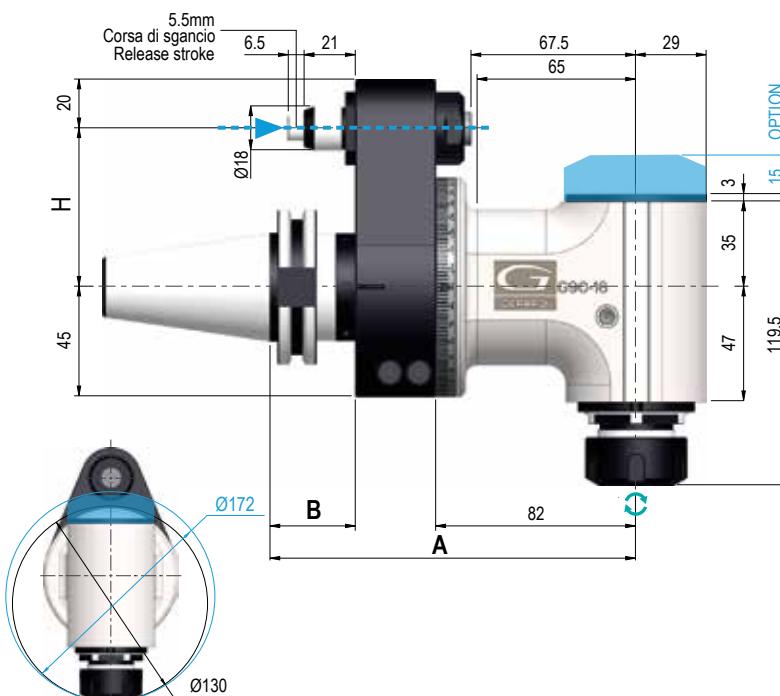
Code:

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	optional      optional      optional	optional
H Standard	65 / 80	80	65 / 80	80	65 / 80      80
H Optional 110 EXTRA Price €	optional	optional	optional	optional	optional
A	150	150	150	157	160
B	35	35	35	42	45
				153	155
					40

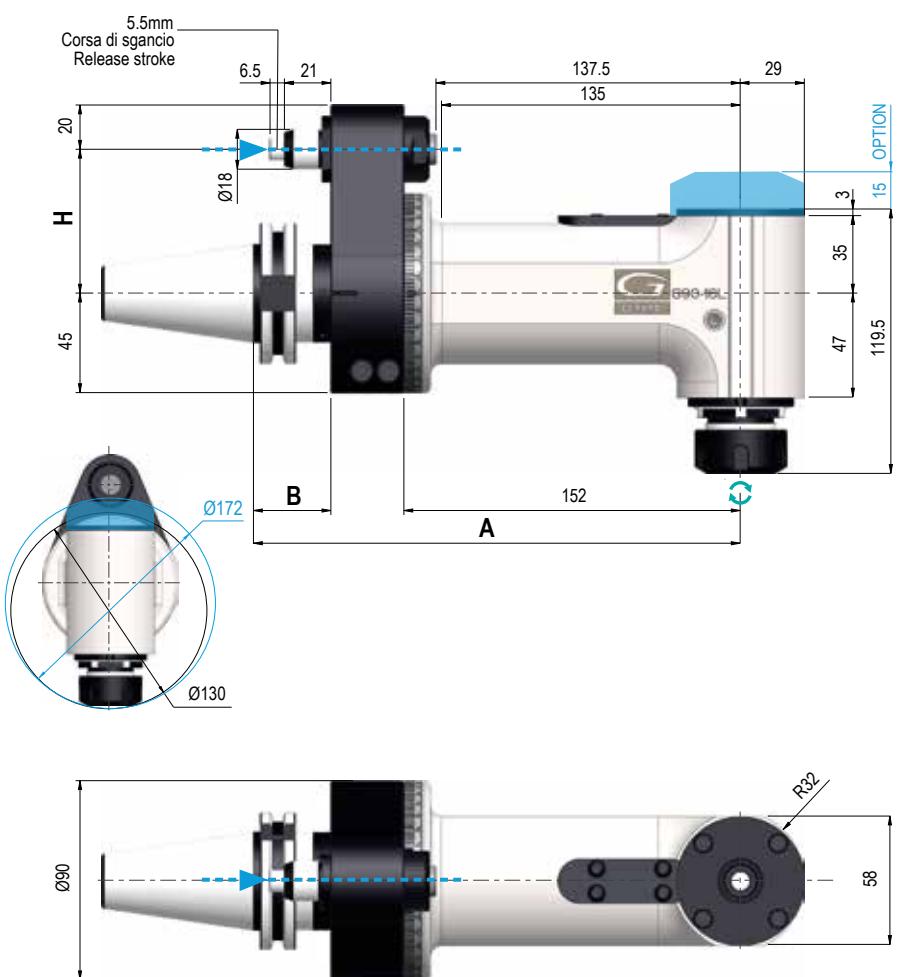
**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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



	REFR. DAL PERNO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT Weldon Max Ø16 optional		USCITA OUTPUT Toolholder Ø16 optional
	REFR. DAL PERNO COOLANT PIN THROUGH <b>DRY RUNNING NOT POSSIBLE</b> Max 40 bar optional		DOPPIA USCITA DOUBLE OUTPUT ER25 - ER16 M optional		USCITA OUTPUT HSK 32 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

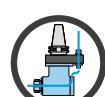
Coni Shanks		SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893		C. ISO 26623
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5 C6 C8
Prezzo EXTRA Price €	std	std	std	std	std	std	optional	optional	optional	optional
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80
H Optional 110 EXTRA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

### Opzioni - Options

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



REFR. DAL PERNOD  
COOLANT PIN THROUGH

**DRY RUNNING POSSIBLE**

Max 10 bar

optional



USCITA  
OUTPUT

Weldon Max Ø16

optional



USCITA  
OUTPUT

Toolholder Ø16

optional

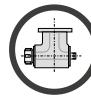


REFR. DAL PERNOD  
COOLANT PIN THROUGH

**DRY RUNNING NOT POSSIBLE**

Max 40 bar

optional



DOPPIA USCITA  
DOUBLE OUTPUT

ER25 - ER16 M

optional



USCITA  
OUTPUT

HSK 32

optional

**G90-20**

TYPE 2

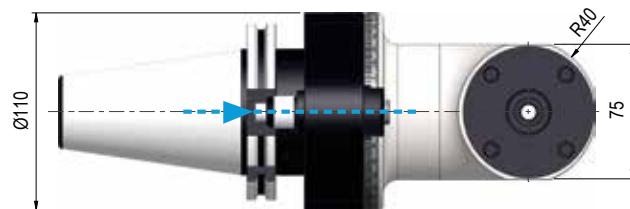
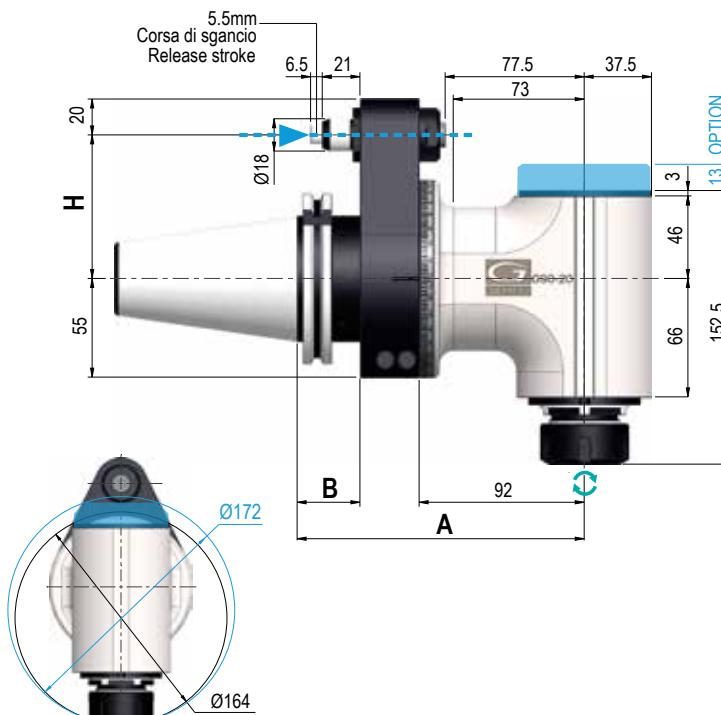
Code:

9.G90.20000

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	optional    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
B	35	35	41	42	45
163					165
40					

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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

	REFR. DAL PERNO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT Weldon Max Ø20 optional		USCITA OUTPUT Portafresa Toolholder 022 optional		USCITA OUTPUT C4 optional		ALTA VELOCITÀ HIGH SPEED 6.000 Rpm optional
	REFR. DAL CONO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> 40 bar    70 bar opt.    opt.		USCITA OUTPUT HSK 40 optional		USCITA OUTPUT ISO/CAT/ BT 30 optional		DOPPIA USCITA DOUBLE OUTPUT ER32 - ER20M optional		

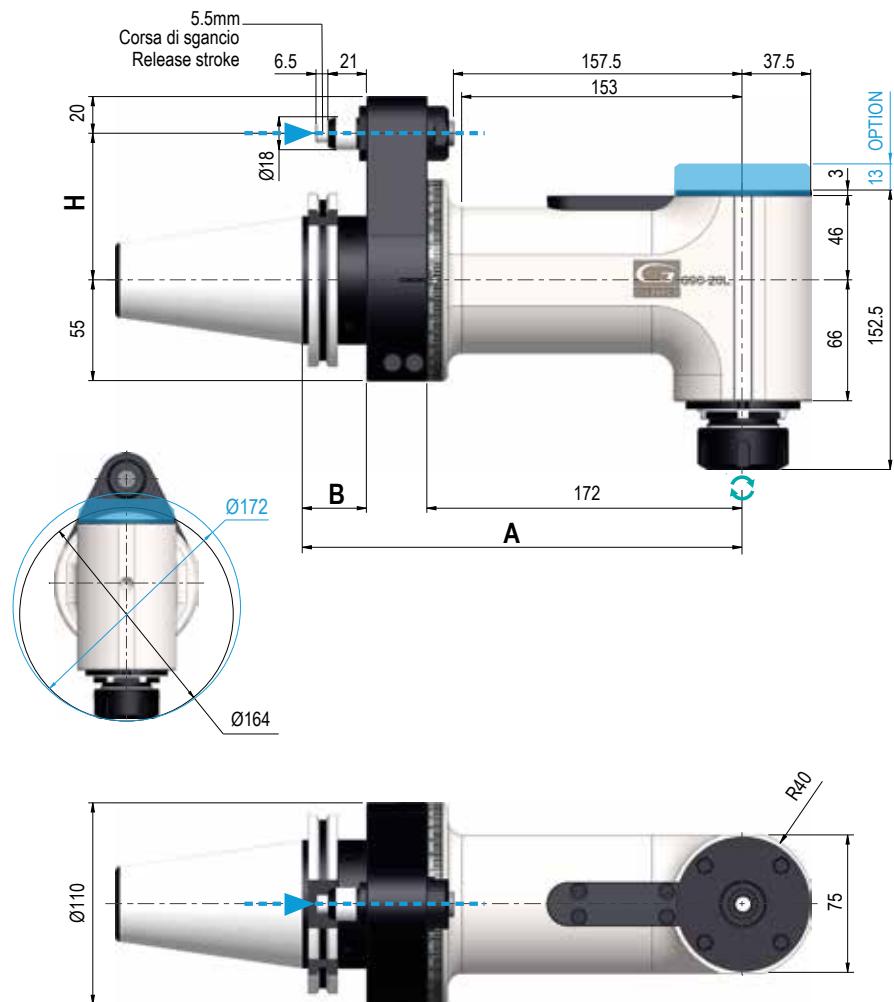
**G90-20L**

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
Prezzo EXTRA Price €	std	std	std	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
B	35	35	41	42	45
				243	245
					40

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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		REFR. DAL PENO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional
<b>IMBALLO &amp; PESO</b> PACK & WEIGHT: Max. Kg		REFR. DAL CONO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> 40 bar opt.

	USCITA OUTPUT Weldon Max Ø20 optional		USCITA OUTPUT Portafresa Toolholder Ø22 optional		USCITA OUTPUT C4 optional
	USCITA OUTPUT HSK 40 optional		USCITA OUTPUT ISO/CAT/ BT 30 optional		DOPPIA USCITA DOUBLE OUTPUT ER32 - ER20M optional

**G90-20L/272**

TYPE 2

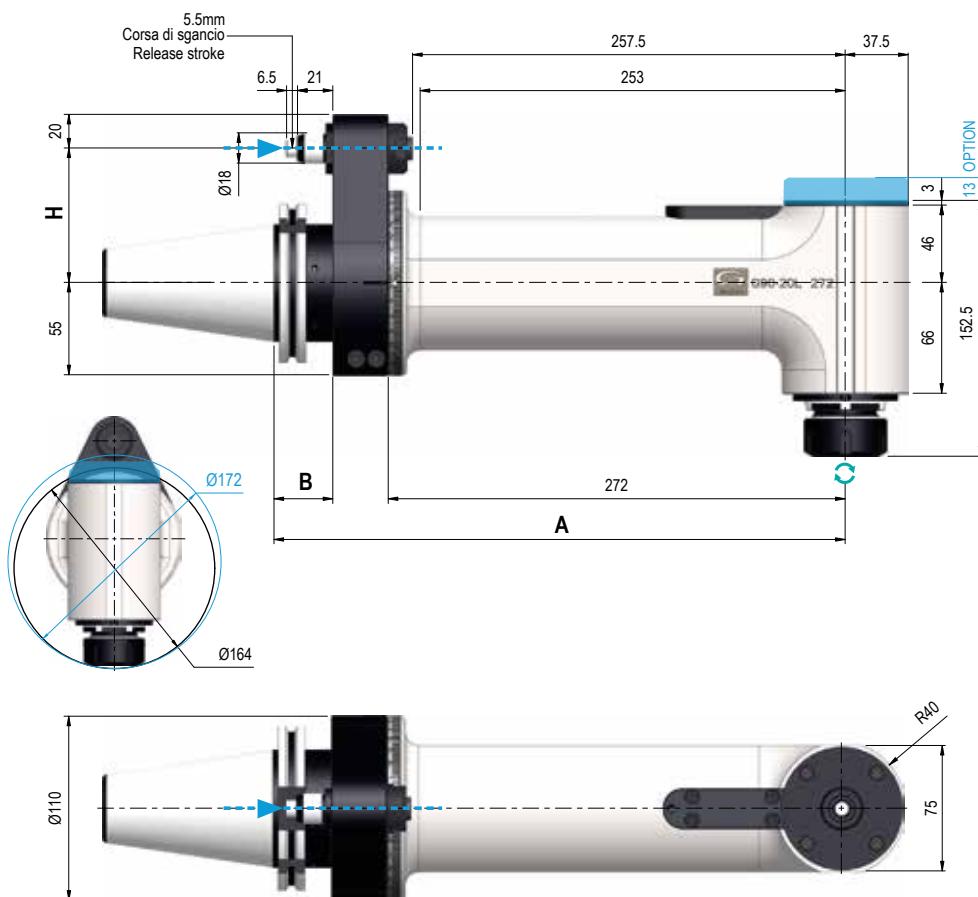
Code:

9.G90.20L00.272

Price:

**Dati tecnici - Technical data**

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

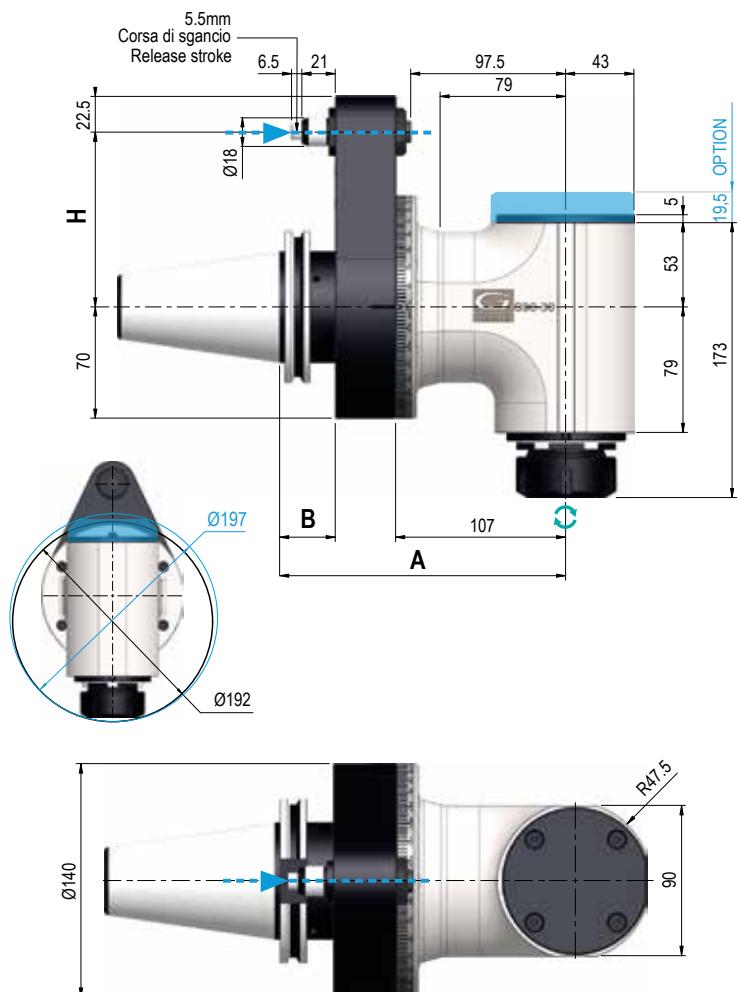


SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

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
<i>Prezzo EXTRA Price €</i>		std		std		std		optional	optional	optional
H Standard		80		80		80		80		80
H Optional 110 <i>EXTRA Price €</i>		optional		optional		optional		optional		optional
A		340		340		346		347	350	343
B		35		35		41		42	45	38
										345 40

**Dotazione Standard  
Standard Equipment****Opzioni - Options**

<b>CASSA IN LEGNO - Stop-block - Ghiera ER - Chiavi di servizio - Tubetto di grasso - Libro istruzioni</b> Wood box - Stop-block - ER nut - Wrenches - Grease tube - Instruction book		REFR. DAL PERNIO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT C4 optional		USCITA OUTPUT Weldon Max Ø20 optional		USCITA OUTPUT Portafresa Toolholder Ø22 optional
<b>IMBALLO &amp; PESO</b> PACK & WEIGHT: Max. Kg		REFR. DAL PERNIO COOLANT PIN THROUGH <b>DRY RUNNING NOT POSSIBLE</b> 40 bar 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
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard	110	110	110	110	110
A	180	180	186	187	190
B	35	35	41	42	45
					185
					40

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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 &amp; WEIGHT: Max. Kg



	REFR. DAL PERNINO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT Weldon Max Ø20 optional		USCITA OUTPUT Portafresa Toolholder Ø22 optional		USCITA OUTPUT C4 optional		ALTA VELOCITÀ HIGH SPEED 6.000 Rpm optional
	REFR. DAL CONO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> 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		

**G90-30L**

TYPE 3

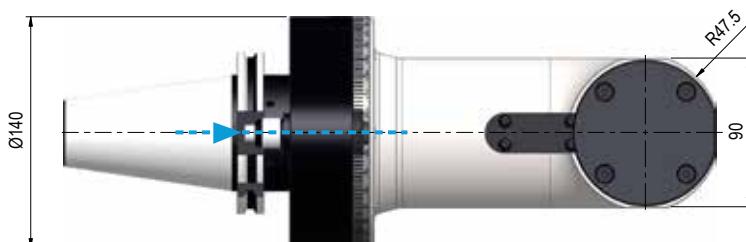
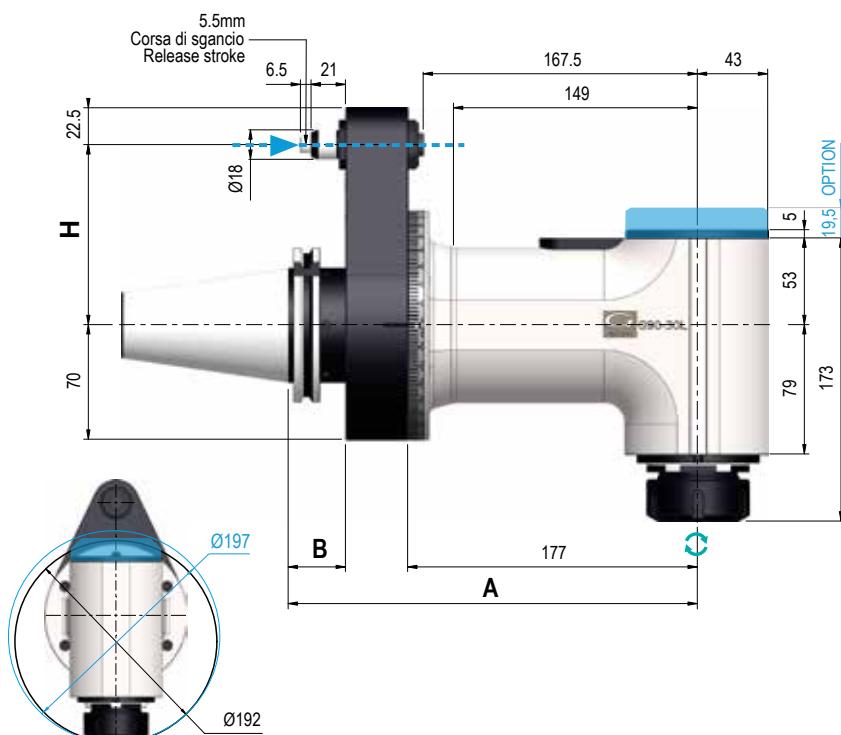
Code:

9.G90.30L00

Price:

**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
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard Ø18	110	110	110	110	110
A	250	250	256	257	260
B	35	35	41	42	45
					255
					40

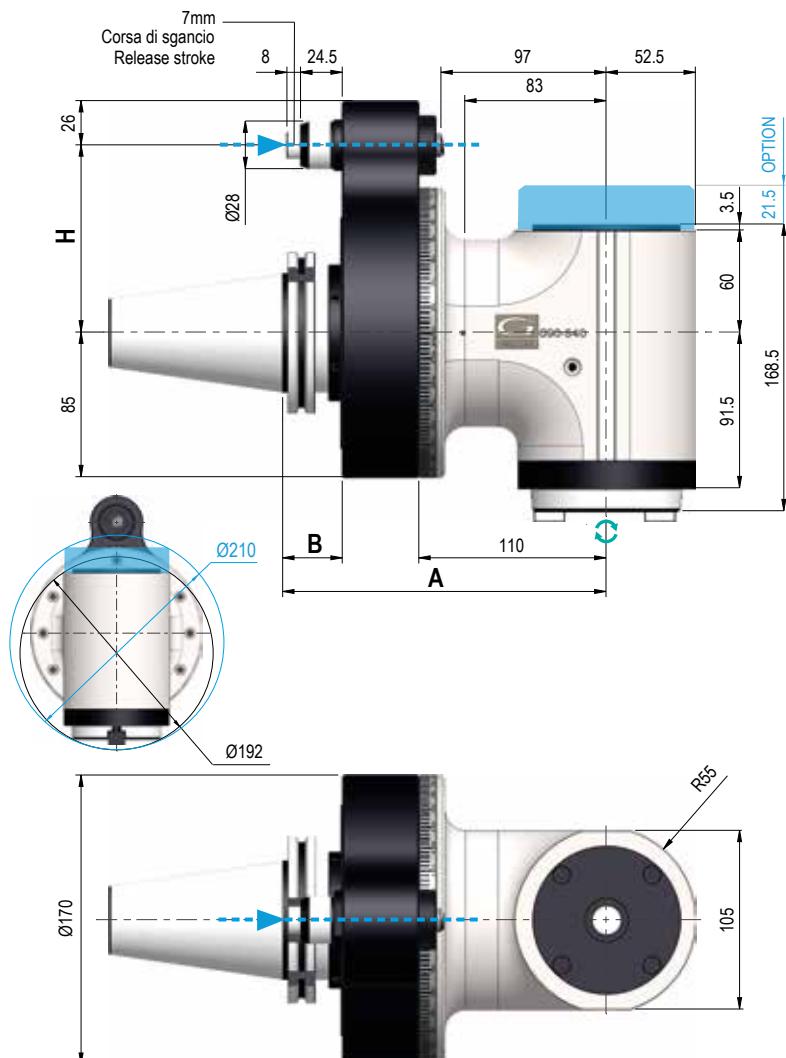
**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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



	REF. DAL PERNO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT Weldon Max Ø20 optional		USCITA OUTPUT Portafresa Toolholder Ø22 optional		USCITA OUTPUT C4 optional		ALTA VELOCITÀ HIGH SPEED 6.000 Rpm optional
	REF. DAL CONO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> 40 bar 70 bar opt. opt.		USCITA OUTPUT HSK 40 optional		USCITA OUTPUT ISO 30 optional		DOPPIA USCITA DOUBLE OUTPUT ER40 - ER25M 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
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard Ø28	110	110	110	110	110
A	190	190	196	197	200
B	35	35	41	42	45

### Dotazione Standard Standard Equipment

### Opzioni - Options

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 &amp; WEIGHT: Max. Kg



	REFR. DAL PERNO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar <b>optional</b>		USCITA OUTPUT Weldon Max Ø26 <b>optional</b>		USCITA OUTPUT C4 C5 <b>opt.</b> <b>opt.</b>		USCITA OUTPUT Portafresa Toolholder Ø27 <b>optional</b>
	REFR. DAL CONO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> 30 bar 70 bar <b>opt. opt.</b>		USCITA OUTPUT HSK 63 <b>optional</b>		ALTA VELOCITÀ HIGH SPEED 5.000 Rpm <b>optional</b>		

**G90-S40L**
**TYPE 4**

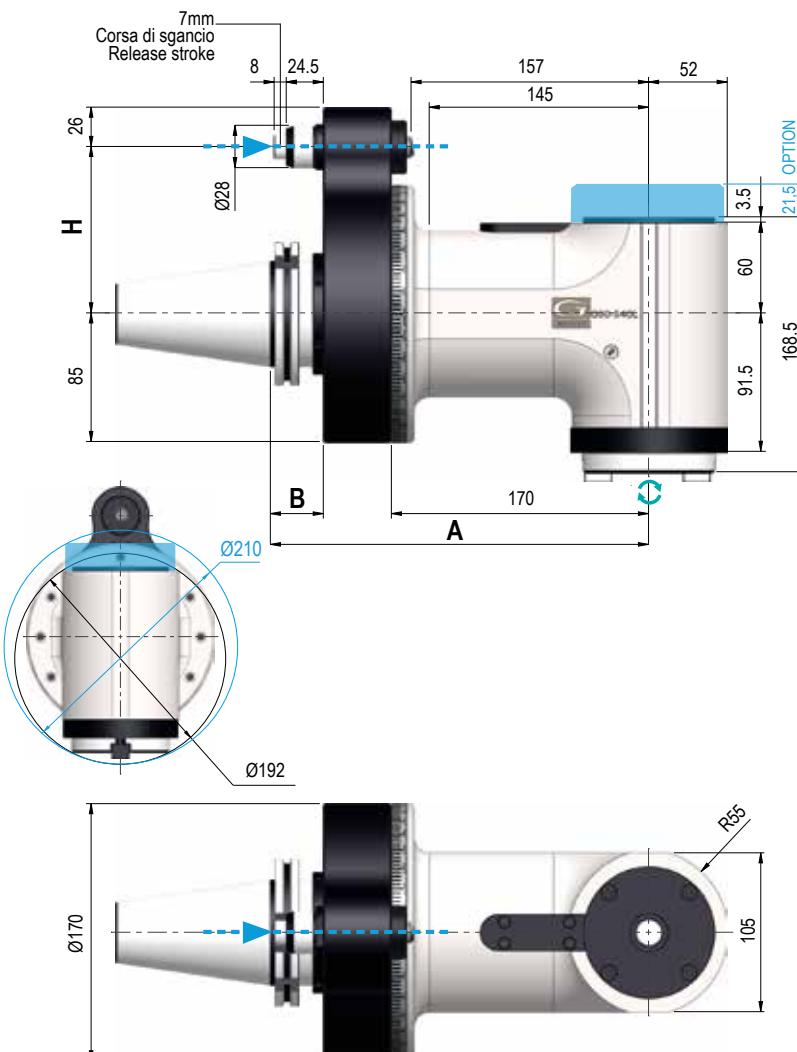
Code:

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		<b>SK DIN 69871</b>		<b>CAT ANSI B5.50</b>		<b>BT MAS 403</b>		<b>HSK DIN 69893</b>		<b>C. ISO 26623</b>
Grandezza - Size		50		50		50		80	100	C8
<b>Prezzo EXTRA Price €</b>		std		std		std		optional	optional	optional
<b>H</b> Standard Ø28		110		110		110		110		110
<b>A</b>		250		250		256		257	260	255
<b>B</b>		35		35		41		42	45	40

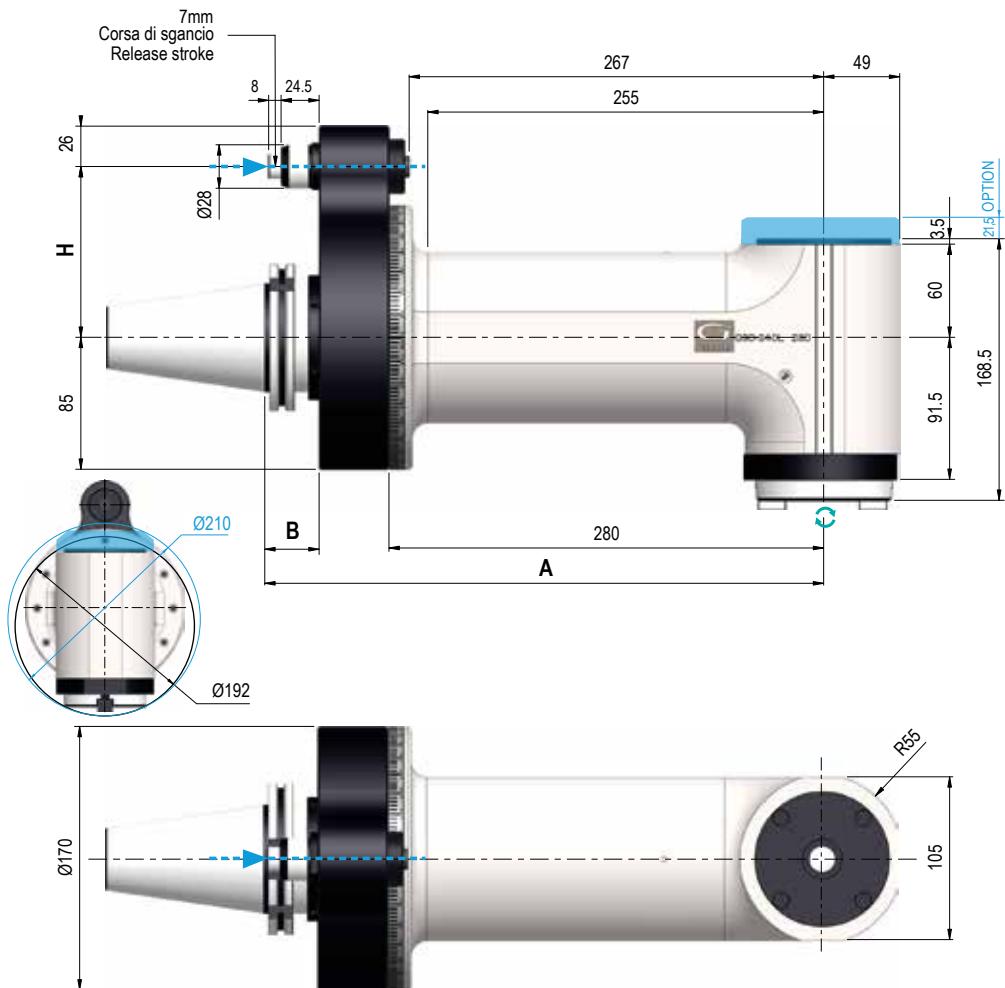
**Dotazione Standard**  
**Standard Equipment**

 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**

	REFR. DAL PENO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT Weldon Max Ø26 optional		USCITA OUTPUT C4 C5 opt. opt.		USCITA OUTPUT Portafresa Toolholder Ø32 optional
	REFR. DAL CONO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> 30 bar opt.		USCITA OUTPUT HSK 63 optional		ALTA VELOCITÀ HIGH SPEED 5.000 Rpm optional		


**G90-S40L/280** TYPE 4  
Code: 9.G90.S40L0.280

Price:

**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****Opzioni - Options**

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 &amp; WEIGHT: Max. Kg



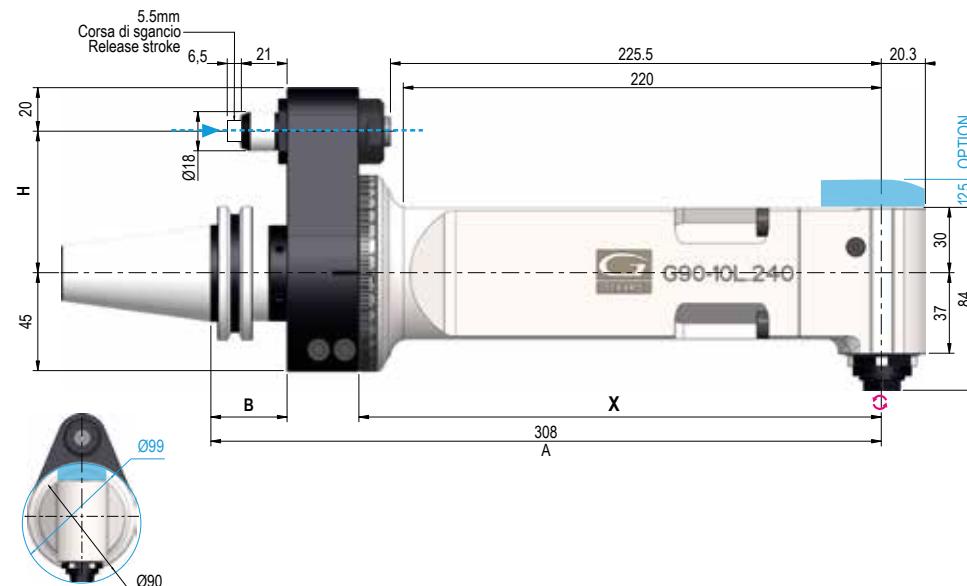
	REFR. DAL PERO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT Weldon Max Ø26 optional		USCITA OUTPUT C4 C5 opt. opt.		USCITA OUTPUT Portafresa Toolholder Ø32 optional
	REFR. DAL CONO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> 30 bar optional		USCITA OUTPUT HSK 63 optional		ALTA VELOCITÀ HIGH SPEED 5.000 Rpm optional		

## G90-10L 240

TYPE 1

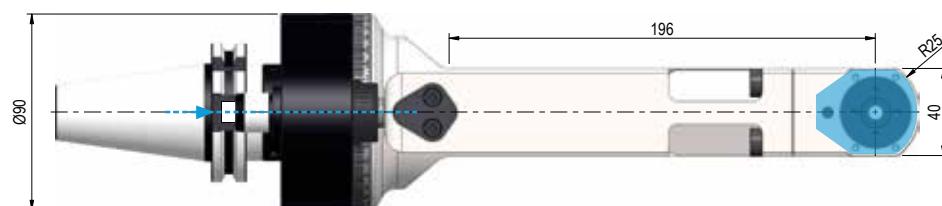
Code:

Price:

**NEW**

## Dati tecnici - Technical data

	Ratio 1:1		Kg 6,3
	Rpm 10.000		Ø 10
	N 250		M 8
	Nm 10		ER16 Ø1/10

POSSIBILITÀ DI LUNGHEZZE DIFFERENTI  
POSSIBILITY OF DIFFERENT LENGTH

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	63	80
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard	65 / 80	80	65 / 80	80	65 / 80
H Optional 110 EXTRA Price €	optional	optional	optional	optional	optional
A	308	308	308	315	318
B	35	35	35	42	45
				311	313
					40

Dotazione Standard  
Standard Equipment

## Opzioni - Options

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

REFR. DAL PERNO  
COOLANT PIN THROUGH

DRY RUNNING POSSIBLE

Max 10 bar

optional

USCITA  
OUTPUT

Weldon Max Ø10

optional

USCITA  
OUTPUT

Toolholder Ø16

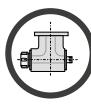
optional

REFR. DAL PERNO  
COOLANT PIN THROUGH

DRY RUNNING NOT POSSIBLE

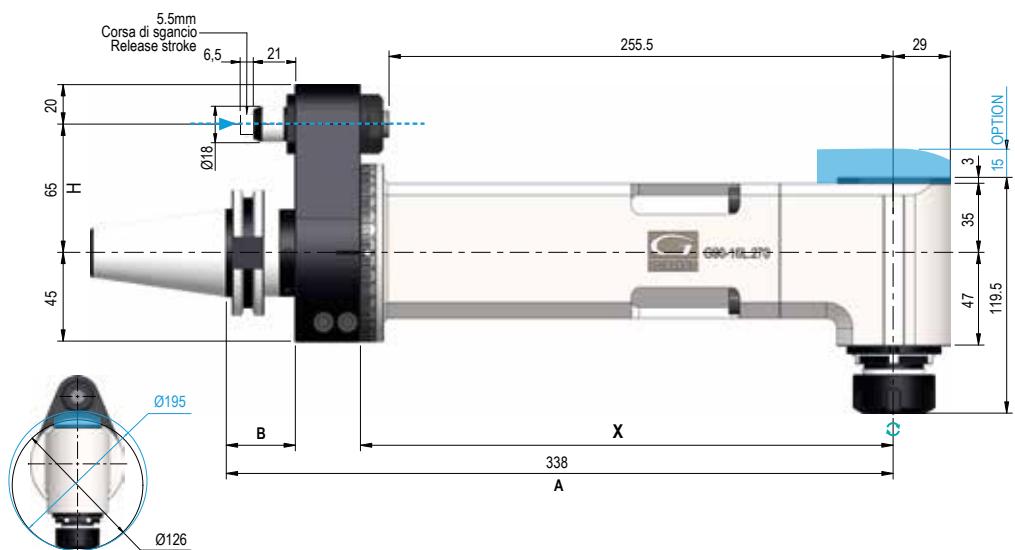
Max 40 bar

optional

DOPPIA USCITA  
DOUBLE OUTPUT

ER16 - ER11 M

optional



## G90-16L 270

TYPE 1

Code:

Price:



### Dati tecnici - Technical data



Ratio

1:1



Kg

8,9



Rpm

8.000



Ø

16



N 510



M 12



Nm

24



ER25

Ø1/16

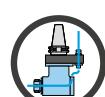
 POSSIBILITÀ DI LUNGHEZZE DIFFERENTI  
 POSSIBILITY OF DIFFERENT LENGTH


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	63	100
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard	65 / 80	80	65 / 80	80	65 / 80
H Optional 110 EXTRA Price €	optional	optional	optional	optional	optional
A	338	338	338	345	348
B	35	35	35	42	45
				341	343
					40

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

 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

 REFR. DAL PERNOD  
 COOLANT PIN THROUGH

**DRY RUNNING POSSIBLE**

Max 10 bar

optional


 USCITA  
 OUTPUT

Weldon Max Ø16

optional


 USCITA  
 OUTPUT

Toolholder Ø16

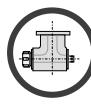
optional


 REFR. DAL PERNOD  
 COOLANT PIN THROUGH

**DRY RUNNING NOT POSSIBLE**

Max 40 bar

optional


 DOPPIA USCITA  
 DOUBLE OUTPUT

ER25 - ER16 M

optional


 USCITA  
 OUTPUT

HSK 32

optional

## G90-20L 332

TYPE 2

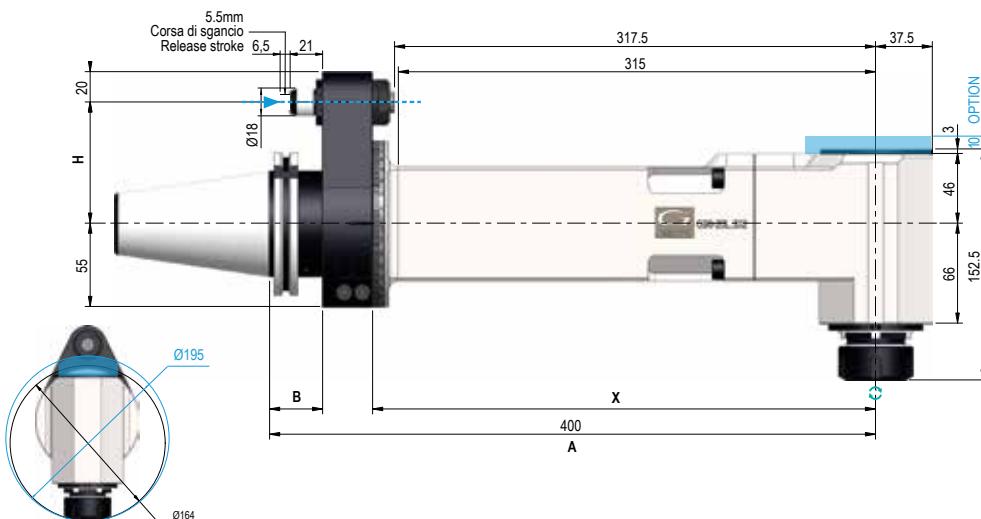
Code:

Price:



## Dati tecnici - Technical data

	Ratio 1:1		Kg 20,5
	Rpm 4.000		Ø 20
	N 1250		M 16
	Nm 24		ER32 Ø2/20

POSSIBILITÀ DI LUNGHEZZE DIFFERENTI  
POSSIBILITY OF DIFFERENT LENGTH

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
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard Ø28	80	80	80	80	80
A	400	400	406	407	410
B	35	35	41	42	45
					405

Dotazione Standard  
Standard Equipment

## Opzioni - Options

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



	REFR. DAL PERNO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT C4 optional		USCITA OUTPUT Weldon Max Ø20 optional		USCITA OUTPUT Portafresa Toolholder Ø22 optional
	USCITA OUTPUT HSK 40 optional		USCITA OUTPUT ISO/CAT/ BT 30 optional		DOPPIA USCITA DOUBLE OUTPUT ER32 - ER20M optional		

**G90-30L 287**

TYPE 3

Code:

Price:

**NEW****Dati tecnici - Technical data**

Ratio

1:1



Kg

22,5



Rpm

4.000



Ø

30



N 1750



M 20

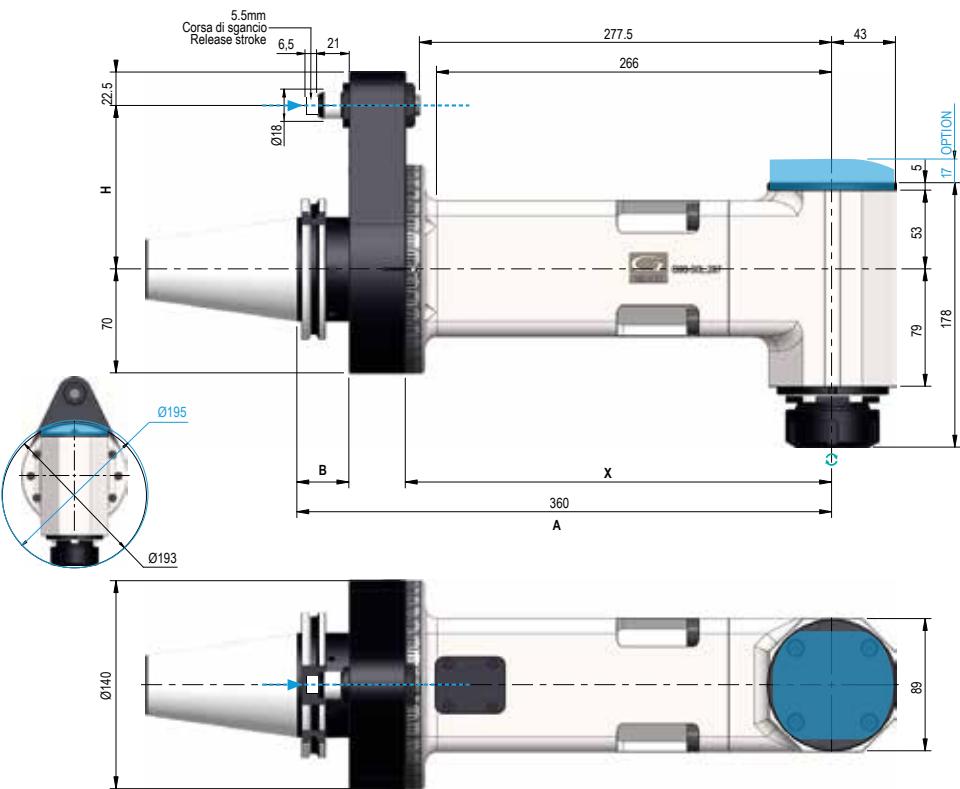


Nm 75



ER40

Ø3/30


**POSSIBILITÀ DI LUNGHEZZE DIFFERENTI**  
**POSSIBILITY OF DIFFERENT LENGTH**


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
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard Ø28	110	110	110	110	110
A	360	360	366	367	370
B	35	35	41	42	45

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**
 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 &amp; WEIGHT: Max. Kg



	REFR. DAL PERNO COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT Weldon Max Ø25 optional		DOPPIA USCITA DOUBLE OUTPUT ER40 - ER25M optional		USCITA OUTPUT Portafresa Toolholder 027 optional
	USCITA OUTPUT C4 optional		USCITA OUTPUT HSK 40 optional		USCITA OUTPUT ISO 30 optional		ALTA VELOCITÀ HIGH SPEED 6.000 Rpm optional



# GMU-13

TYPE 0

Code:

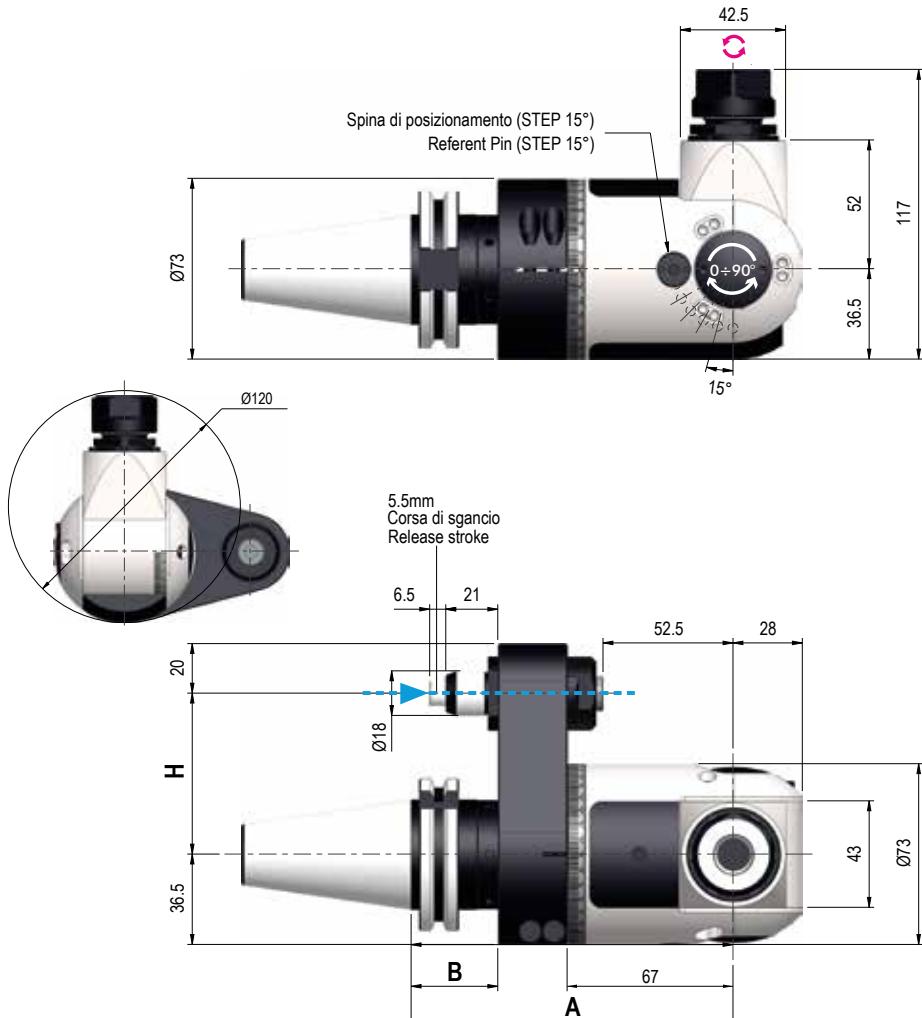
9.GMU.13000

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	optional	optional	optional	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

## Opzioni - Options

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

USCITA  
OUTPUT

Weldon Max Ø16

optional

SPINA POSIZIONE RAPIDA  
QUICK POSITIONING PINAngolazioni personalizzate  
Customized angles

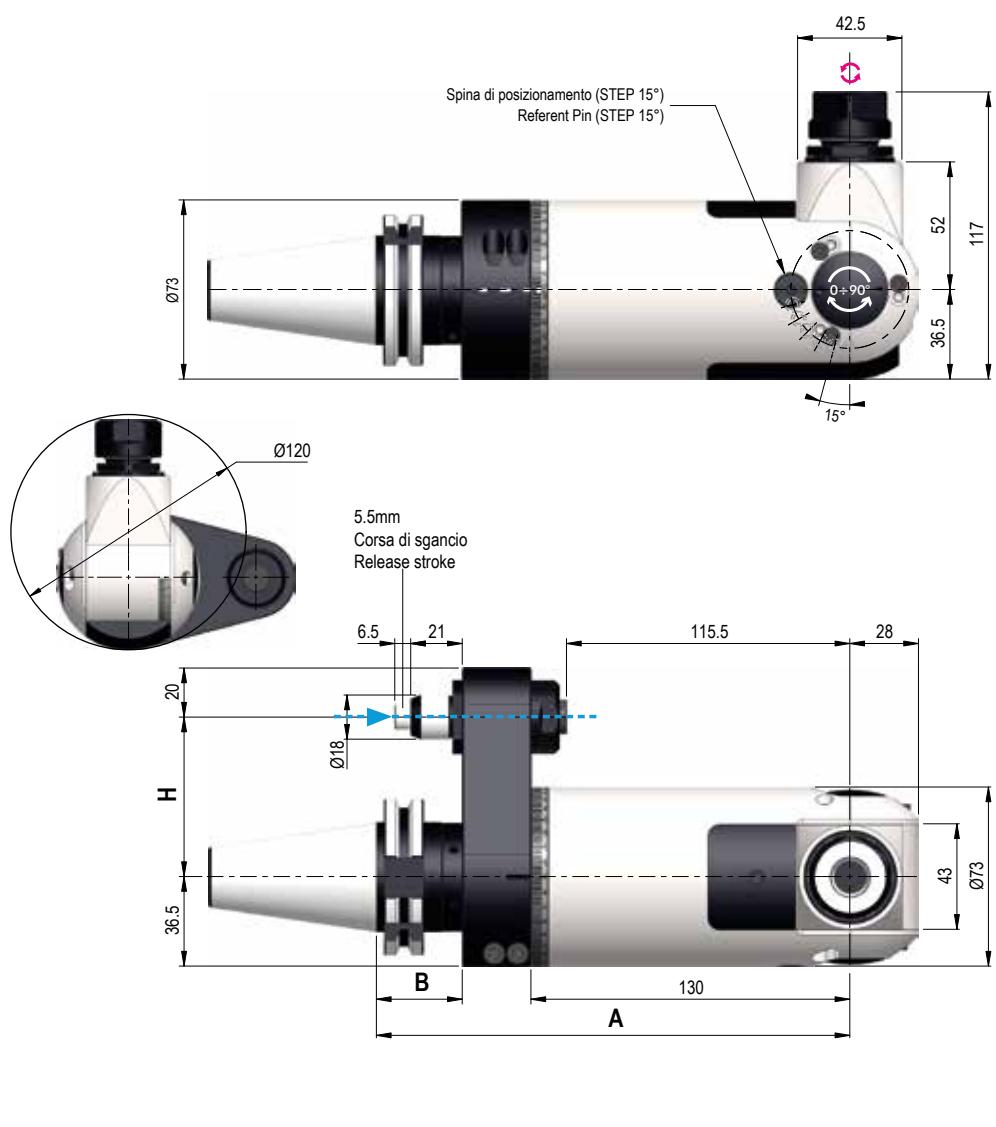
optional

ALTA VELOCITÀ  
HIGH SPEED

6.000 Rpm

optional




**GMU-13L**

TYPE 0

9.GMU.13L00

Code:

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	optional      optional      optional	optional
H Standard	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
B	35	35	30      35      41	42	45
196	198	38	40		

**Dotazione Standard  
Standard Equipment**
**Opzioni - Options**

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


 USCITA  
 OUTPUT  
 Weldon Max Ø20

 SPINA POSIZIONE RAPIDA  
 QUICK POSITIONING PIN  
 Angolazioni personalizzate  
 Customized angles

**IMBALLO & PESO  
PACK & WEIGHT: Max. Kg**

 ALTA VELOCITÀ  
 HIGH SPEED  
 6.000 Rpm  
 optional

optional

optional

**GMU-16**

TYPE 1

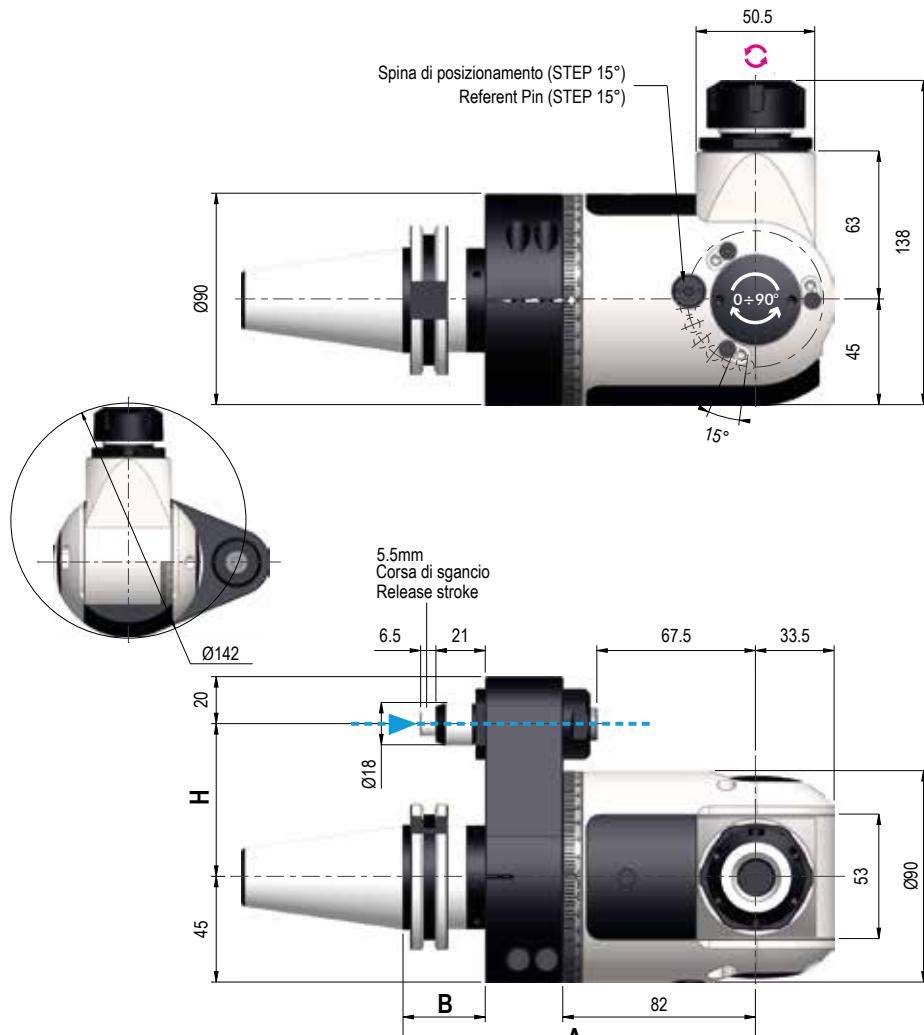
Code:

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	optional	optional	optional	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**
**Opzioni - Options**

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


 USCITA  
OUTPUT

Weldon Max Ø16

optional

 SPINA POSIZIONE RAPIDA  
QUICK POSITIONING PIN

 Angolazioni personalizzate  
Customized angles

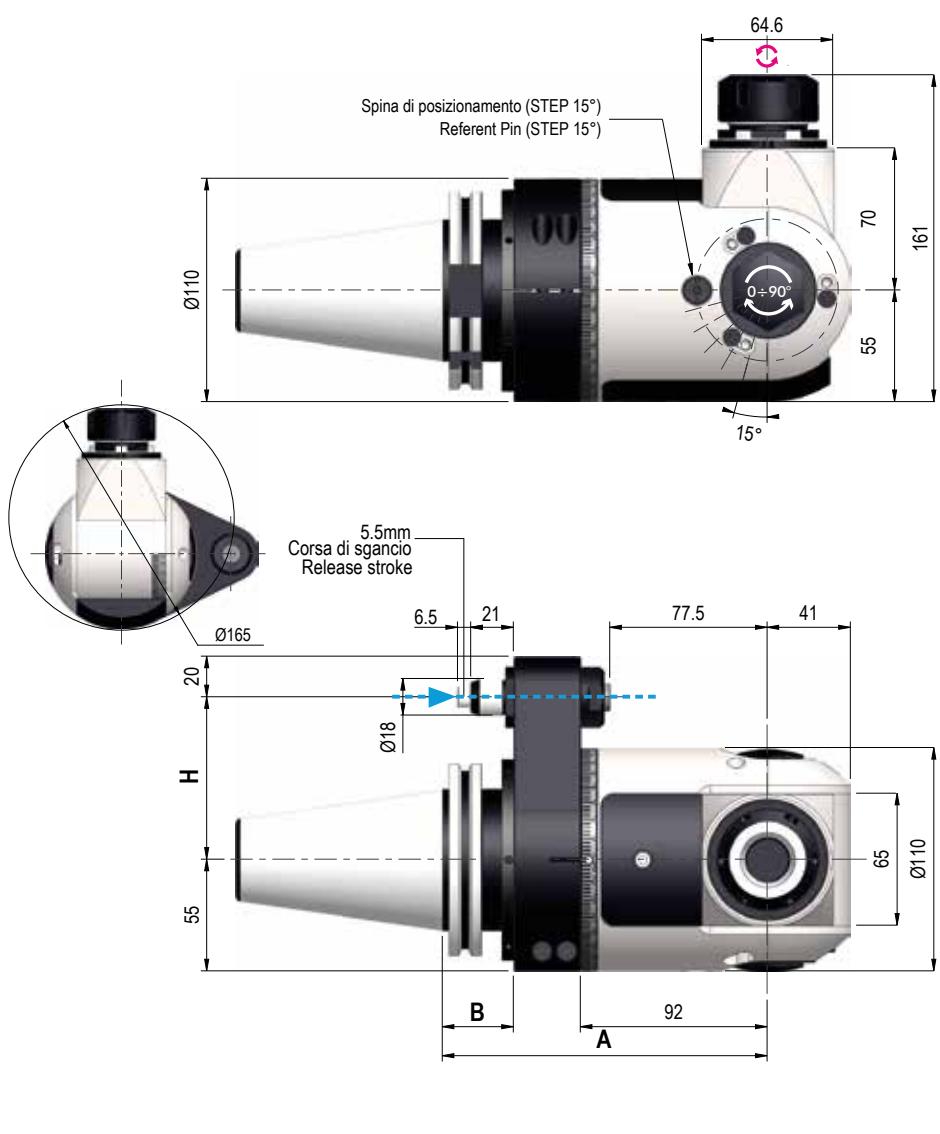
optional


 ALTA VELOCITÀ  
HIGH SPEED

6.000 Rpm

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

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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



USCITA  
OUTPUT

Weldon Max Ø20

optional



SPINA POSIZIONE RAPIDA  
QUICK POSITIONING PIN

Angolazioni personalizzate  
Customized angles

optional



ALTA VELOCITÀ  
HIGH SPEED

6.000 Rpm

optional

**G90-16-2U**

TYPE 1

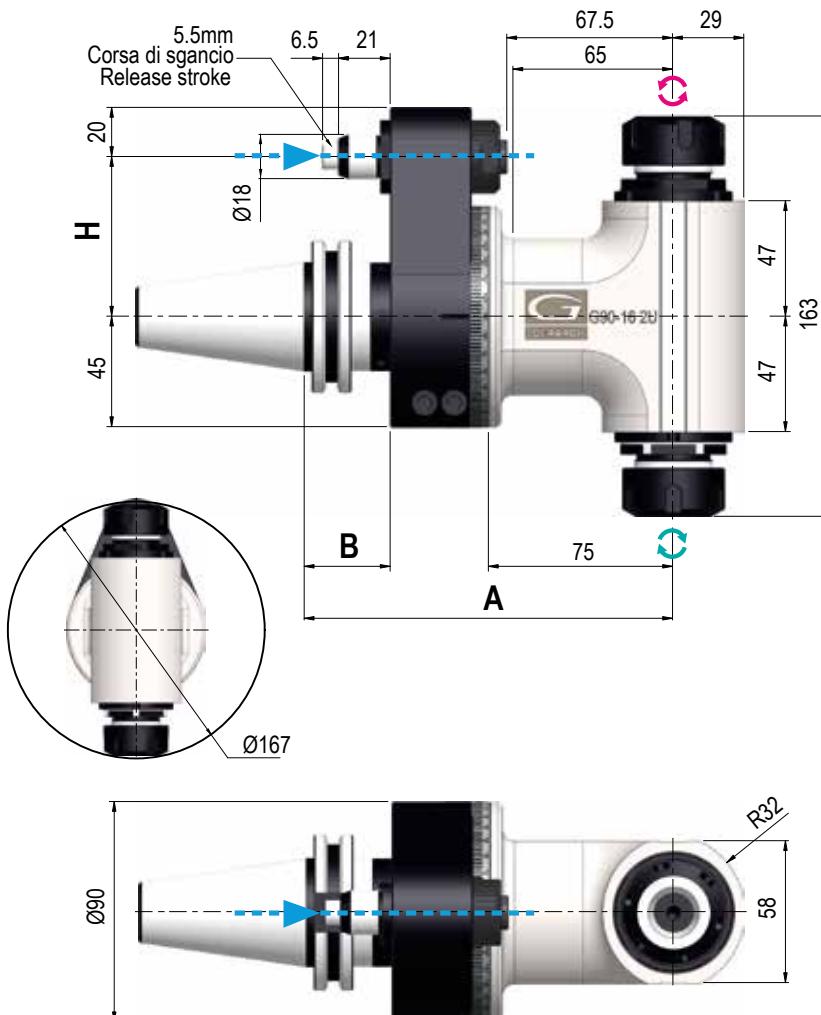
9.G90.162U0

Code:

Price:

**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	optional optional optional	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	157	160
B	35	35	35	42	45
153					155
40					

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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

USCITA OUTPUT  
Portafresa Toolholder Ø16 (X2)

optional


USCITA OUTPUT  
Weldon Max Ø16 (X2)

optional

ALTA VELOCITÀ HIGH SPEED  
8.000 Rpm  
optional


## G90-16L-2U

TYPE 1

9.G90.16L2U0

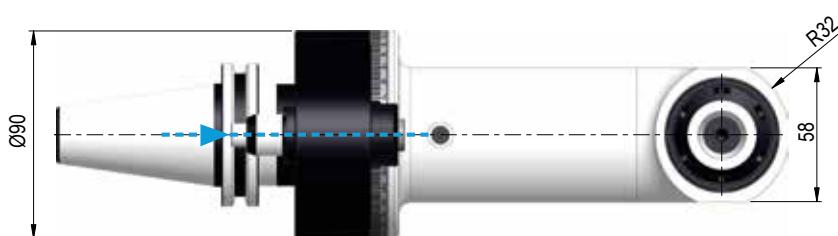
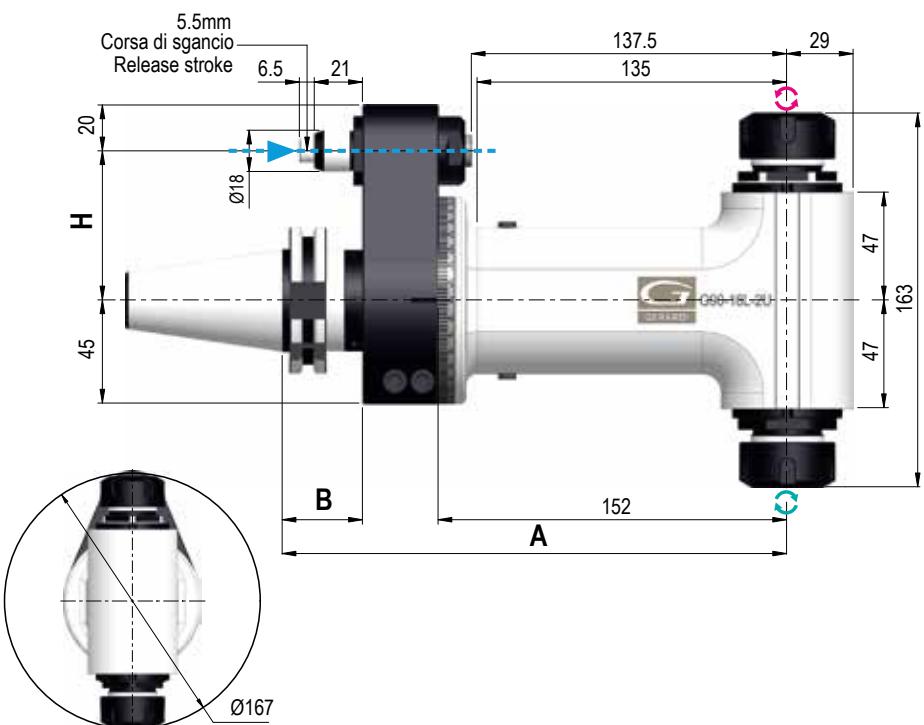
Code:

Price:



## 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	optional	optional	optional	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
B		35		35		35	41	42	45	39
										225

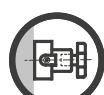
Dotazione Standard  
Standard Equipment

## Opzioni - Options

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 &amp; PESO

PACK &amp; WEIGHT: Max. Kg



USCITA  
OUTPUT  
Portafresa  
Toolholder Ø16 (X2)

optional



USCITA  
OUTPUT  
Weldon Max Ø16 (X2)

optional



ALTA VELOCITÀ  
HIGH SPEED  
8.000 Rpm  
optional

## G90-20-2U

Type 2

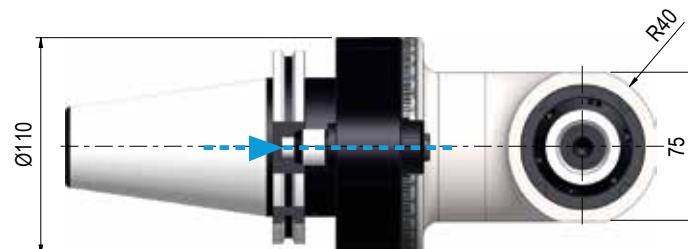
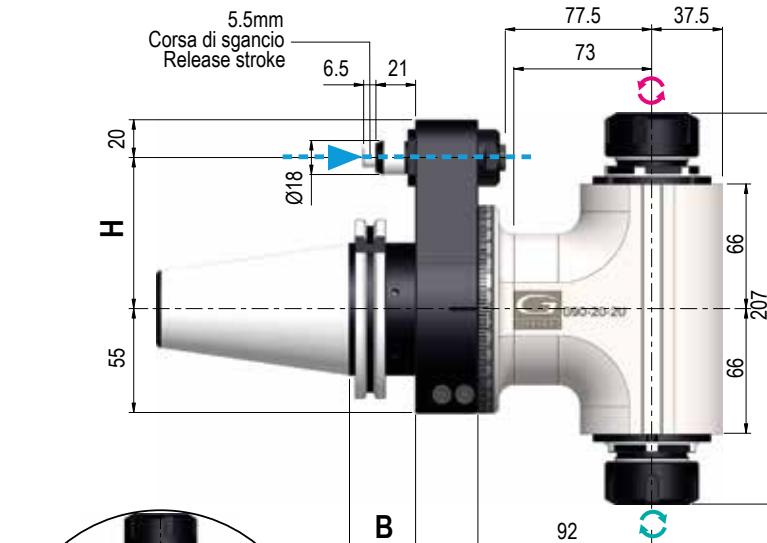
Code: 9.G90.202U0

Price:



### 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
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
B		35		35		41		42	45	38
										165

### Dotazione Standard Standard Equipment

### Opzioni - Options

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



USCITA  
OUTPUT  
Portafresa  
Toolholder Ø27 (X2)

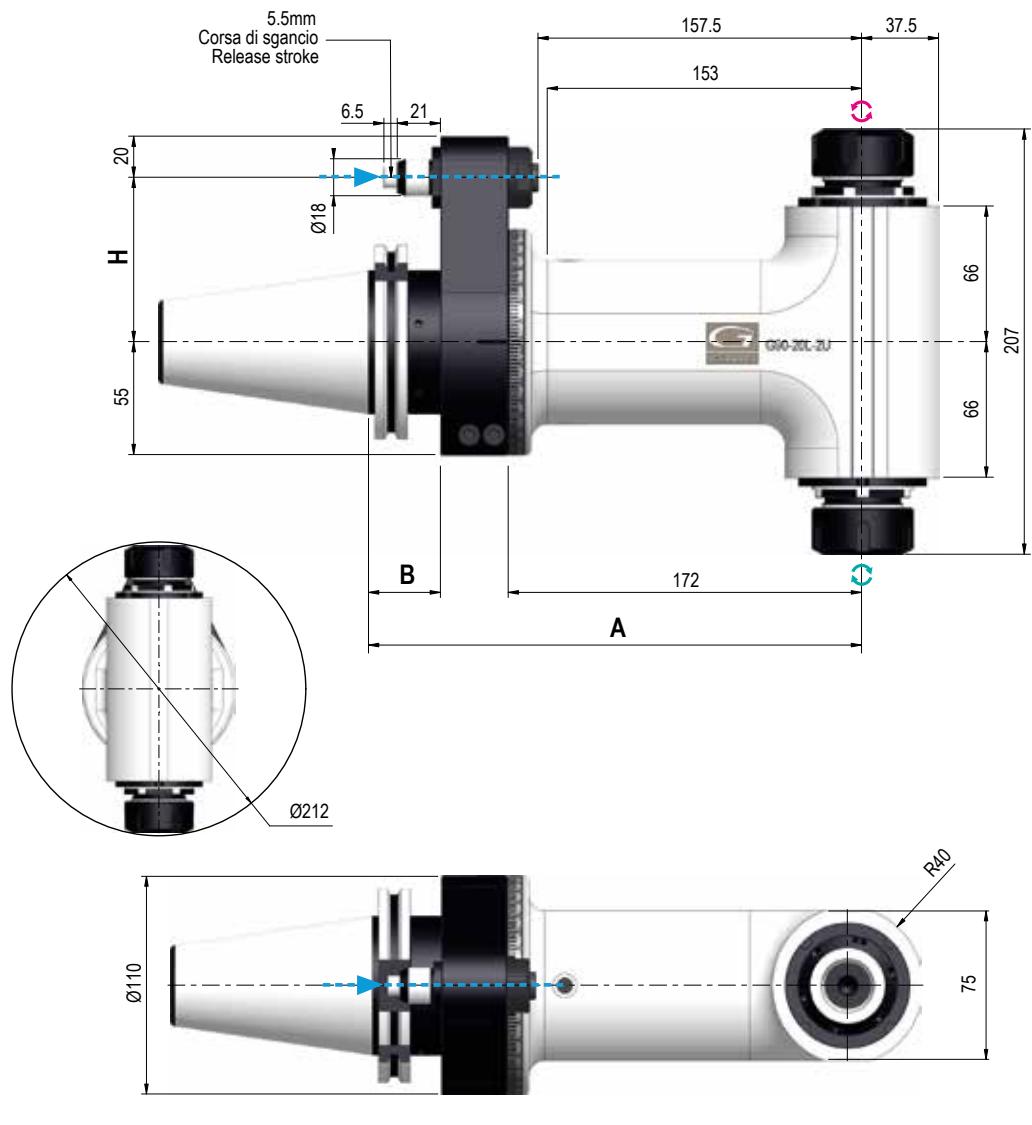
optional

USCITA  
OUTPUT  
Weldon Max Ø20 (X2)

optional



ALTA VELOCITÀ  
HIGH SPEED  
6.000 Rpm  
optional


**G90-20L-2U**

TYPE 2

9.G90.20L2U0

Code:

Price:

**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

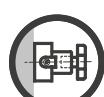
Coni Shanks		<b>SK DIN 69871</b>		<b>CAT ANSI B5.50</b>		<b>BT MAS 403</b>		<b>HSK DIN 69893</b>		<b>C. ISO 26623</b>
Grandezza - Size	50	50	50	50	80	100	C6	C8		
<b>Prezzo EXTRA Price €</b>	std	std	std	std	optional	optional	optional			
<b>H</b> Standard	80	80	80	80	80	80	80			
<b>H</b> Optional 110 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

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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 &amp; WEIGHT: Max. Kg


 USCITA  
OUTPUT  
Portafresa  
Toolholder 027 (X2)

optional


 USCITA  
OUTPUT  
Weldon Max Ø20 (X2)

optional


 ALTA VELOCITÀ  
HIGH SPEED  
6.000 Rpm  
optional

**G90-30-2U**

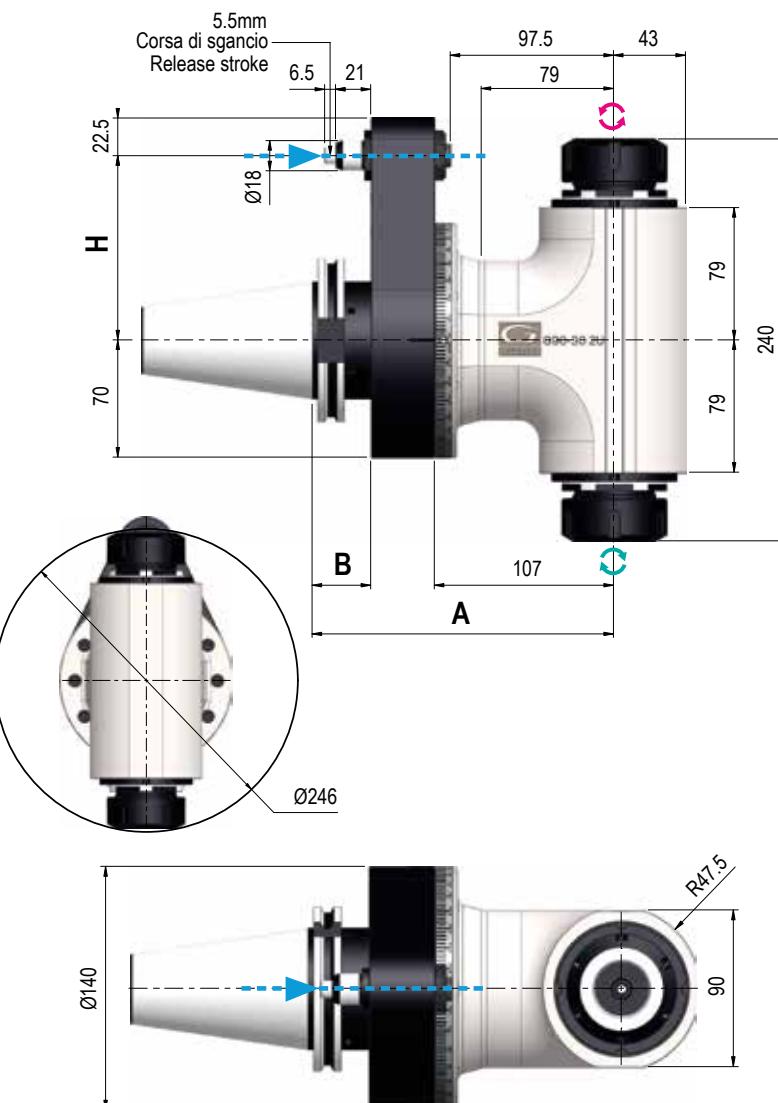
TYPE 3

Code: 9.G90.302U0

Price:

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

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**
 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

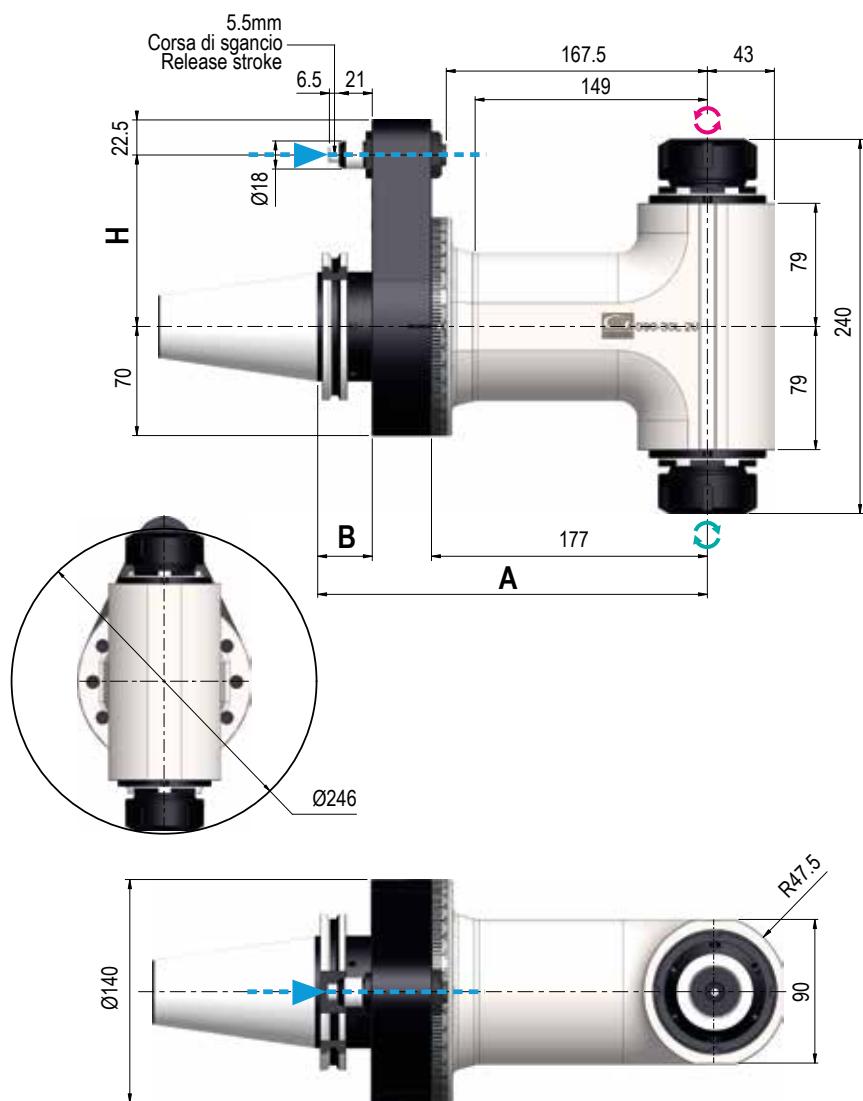
 USCITA  
OUTPUT  
 Portafresa  
Toolholder Ø27 (X2)

 USCITA  
OUTPUT  
 Weldon Max Ø25 (X2)

optional

optional


 ALTA VELOCITÀ  
HIGH SPEED  
 6.000 Rpm  
 optional



## G90-30L-2U

TYPE 3

9.G90.30L2U0

Code:

Price:



### Dati tecnici - Technical data



Ratio

1:1



Kg 23



Rpm

4.000



Ø 30



N 1.750

M 20



M 20



Nm 75



ER-40

Ø3/30

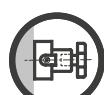


SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

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
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard Ø18	110	110	110	110	110
A	250	250	256	257	260
B	35	35	41	42	45

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

 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

 USCITA  
 OUTPUT  
 Portafresa  
 Toolholder 027 (X2)

 USCITA  
 OUTPUT  
 Weldon Max Ø25 (X2)

optional

optional

**IMBALLO & PESO**  
 PACK & WEIGHT: Max. Kg

 ALTA VELOCITÀ  
 HIGH SPEED  
 6.000 Rpm  
 optional

**GR90-5**

TYPE 1

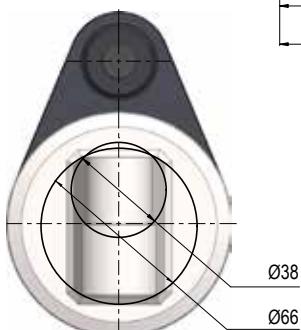
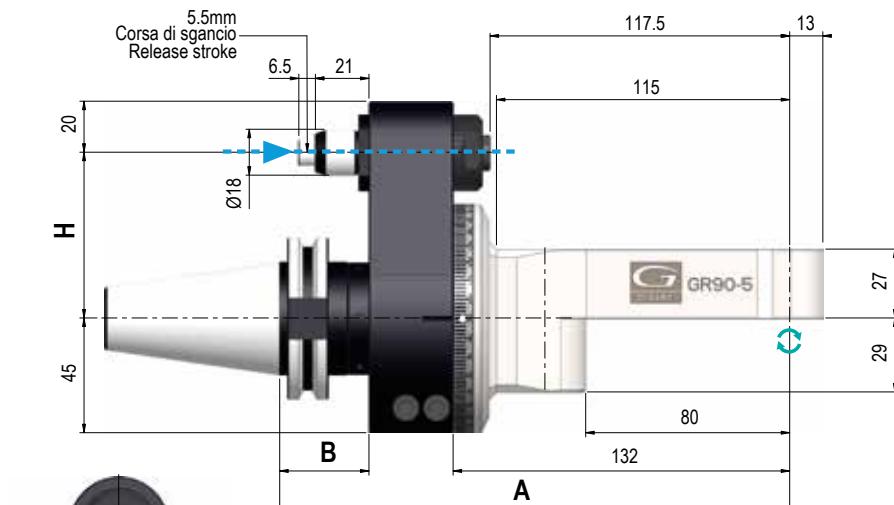
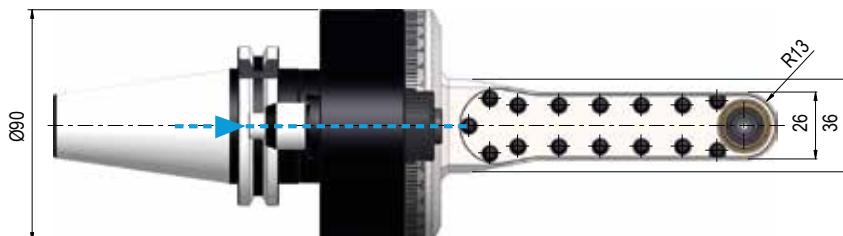
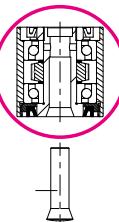
Code:

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 €	opt.    std    std	std	std	optional	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
B	35	35	30    35    41	42	45
203	205	38	40		

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

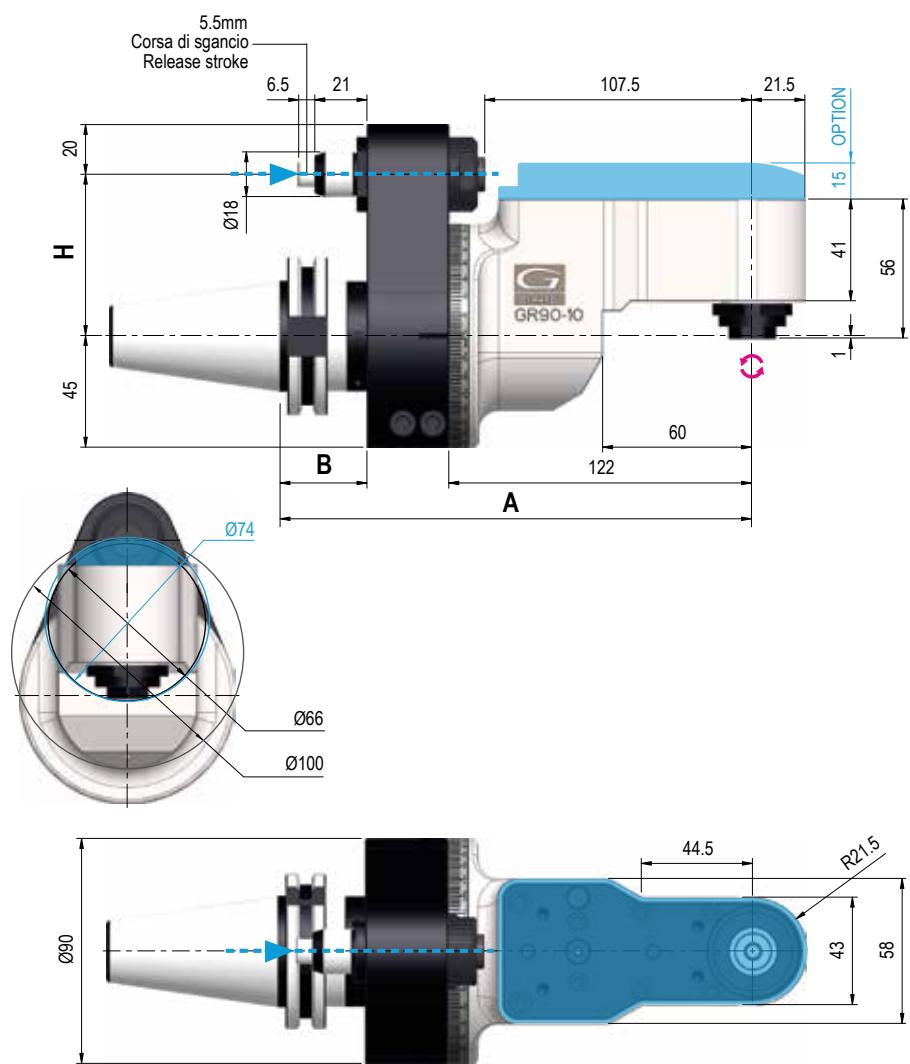
Valigetta - Stop-block - Ghiera ER -  
Chiavi di servizio - Tubetto di grasso -  
Libro istruzioni  
Special bag - Stop-block - ER nut -  
Wrenches - Grease tube - Instruction book

USCITA  
OUTPUT

Schaublin

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg


Page 1.90


**GR90-10**

TYPE 1

9.GR9.10000

Code:

Price:


**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

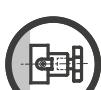
Coni Shanks		<b>SK DIN 69871</b>		<b>CAT ANSI B5.50</b>		<b>BT MAS 403</b>		<b>HSK DIN 69893</b>		<b>C. ISO 26623</b>
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5 C6 C8
<b>Prezzo EXTRA Price €</b>	std	std	std	std	std	std	optional	optional	optional	optional
<b>H</b> Standard	65 / 80	80	65 / 80	80	65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

**Dotazione Standard  
Standard Equipment**
**Opzioni - Options**

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 &amp; WEIGHT: Max. Kg

USCITA  
OUTPUTPortafresa  
Toolholder Ø27 (X2)USCITA  
OUTPUT

Weldon Max Ø25 (X2)

REFR. DAL CONO  
COOLANT THROUGH SHANK

DRY RUNNING NOT POSSIBLE

Max 70 bar

optional

ALTA VELOCITÀ  
HIGH SPEED

8.000 Rpm

optional

## GR90-16

TYPE 1

Code:

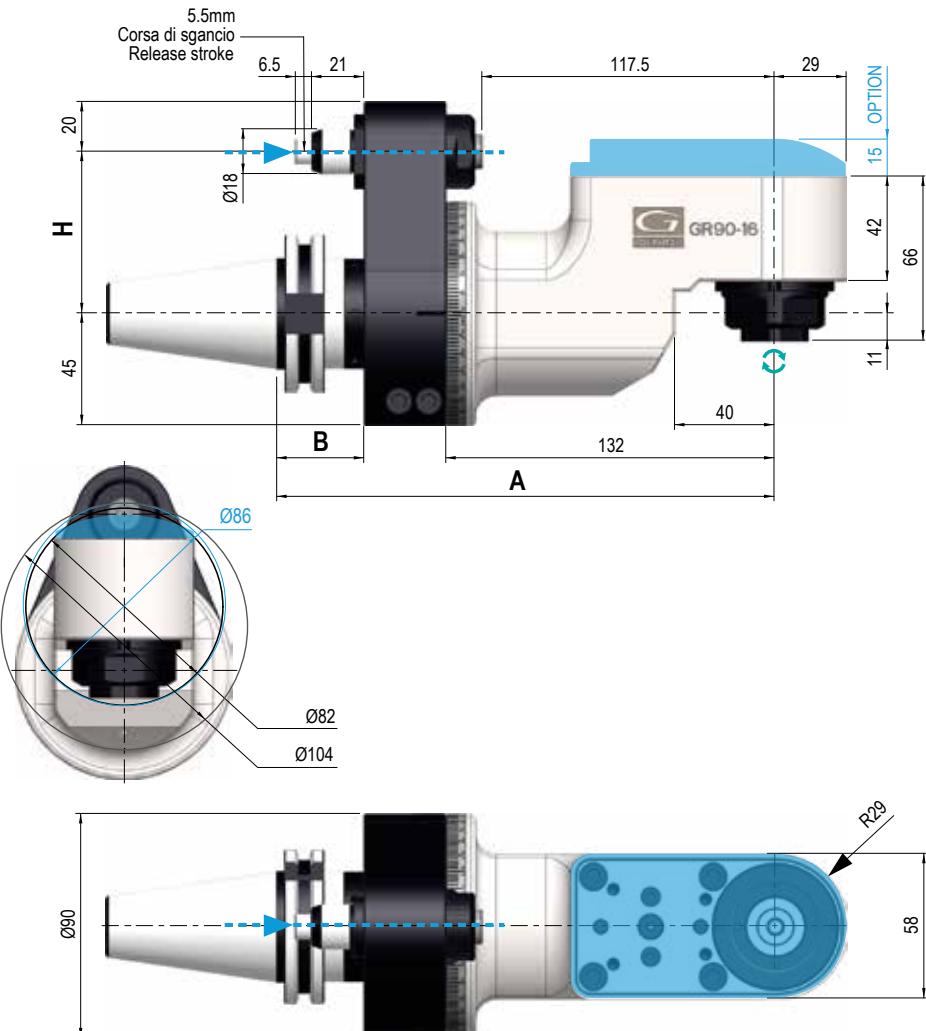
9.GR9.16000

Price:



## 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	optional optional optional	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	207	210
B	35	35	35 41	42	45 38
					205 40

DOTAZIONE STANDARD  
STANDARD EQUIPMENT

## OPZIONI - OPTIONS

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
USCITA OUTPUT  
Portafresa Toolholder Ø16USCITA OUTPUT  
Weldon Max Ø16

optional

optional



REFR. DAL CONO COOLANT THROUGH SHANK

DRY RUNNING NOT POSSIBLE

Max 70 bar

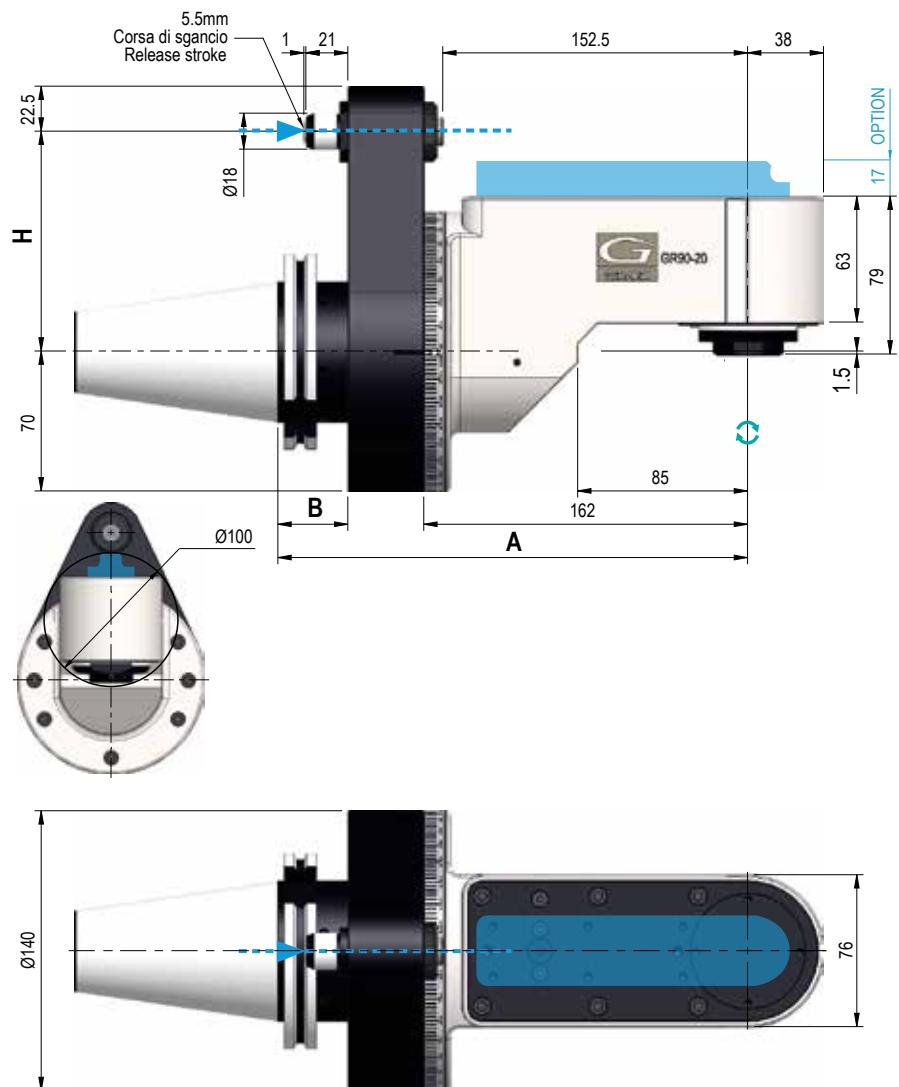
optional

ALTA VELOCITA HIGH SPEED

8.000 Rpm

optional





## GR90-20

TYPE 3

Code: 9.GR9.20000

Price:



### Dati tecnici - Technical data

	Ratio 1:1		Kg 15,6
	Rpm 4.000		Ø -
	N 1.750		M -
	Nm 75		ER32 Ø2/20



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

Coni Shanks					
Grandezza - Size	50	50	50	100	C8
Prezzo EXTRA Price €	std	std	std	optional	optional
H Standard Ø18	110	110	110	110	110
A	235	235	241	245	240
B	35	35	41	45	40

### Dotazione Standard Standard Equipment

### Opzioni - Options

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 &amp; WEIGHT: Max. Kg


 USCITA  
OUTPUT

 Portafresa  
Toolholder Ø16

 USCITA  
OUTPUT

Weldon Max Ø16

optional

optional



COOLANT THROUGH SHANK

DRY RUNNING NOT POSSIBLE

Max 70 bar

optional

 ALTA VELOCITÀ  
HIGH SPEED

8.000 Rpm

optional



series  
**OFFSET**

**Classic Line - ATC Series**  
ANGLE HEADS

1

**GR90-S40**

TYPE 4

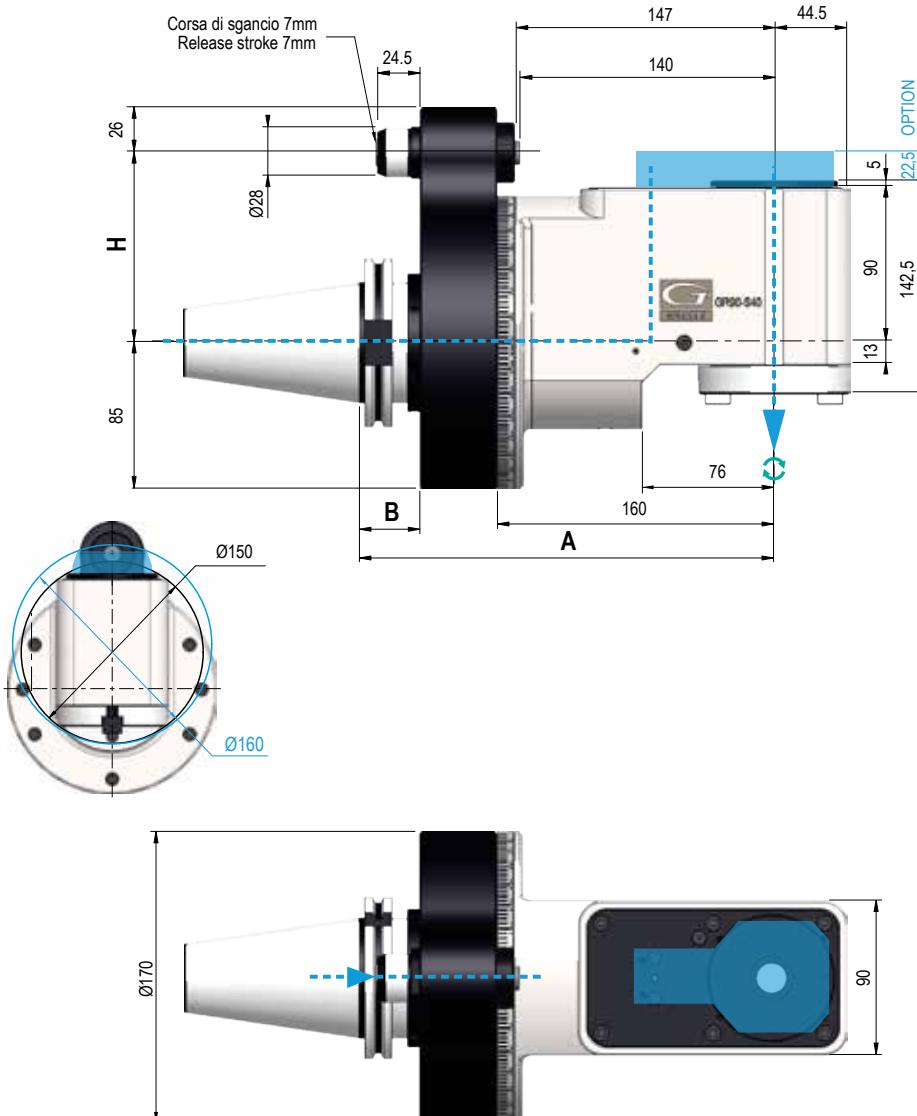
Code:

9.GR9.S4000

Price:

**NEW****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



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 Ø18	110	110	110	110	110
A	240	240	246	250	245
B	35	35	41	45	40

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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



	REFR. DAL PERNÒ COOLANT PIN THROUGH <b>DRY RUNNING POSSIBLE</b> Max 10 bar optional		USCITA OUTPUT Weldon Max Ø26 optional		DOPPIA USCITA DOUBLE OUTPUT C4 C5 opt. opt.		USCITA OUTPUT Portafresa Toolholder 027 optional
	REFR. DAL CONO COOLANT THROUGH SHANK <b>DRY RUNNING NOT POSSIBLE</b> 70 bar optional		USCITA OUTPUT HSK 63 optional		ALTA VELOCITÀ HIGH SPEED 5.000 Rpm optional		

## Esempi applicativi / Applications examples

# Linea Classic / Classic Line

**Teste angolari integrali serie MTC (Cambio utensile manuale)**

*Integral angle heads MTC series (Manual tool change)*



*series*  
**STD 90°**

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

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



*series*  
**STD 90°**

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

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



*series*  
**GMU**

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

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



*series*  
**GMU**

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

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



*series*  
**DOUB2E**

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

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

# 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 possibile 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.**

# MTC SERIES

## MANUAL TOOL CHANGE

1

### 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 performances, 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

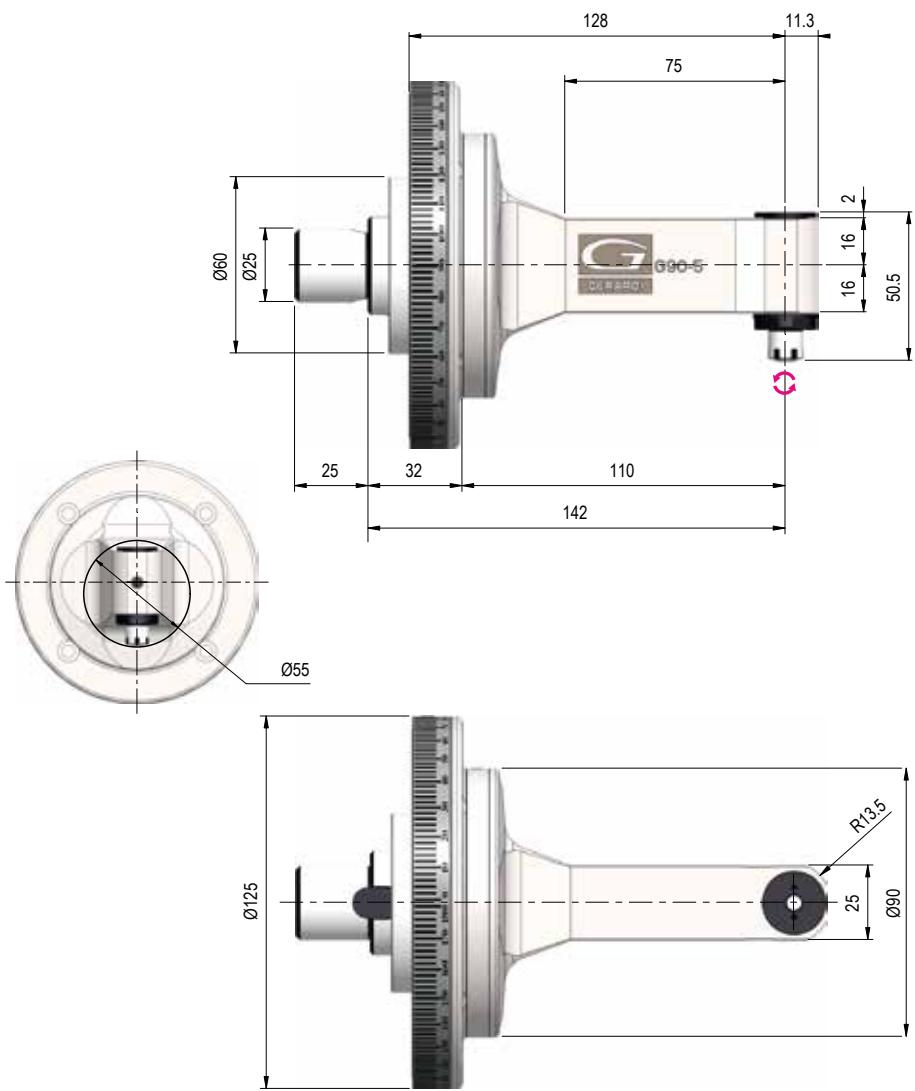
**Corpo testa orientabile a 360° con pressurizzazione interna.**  
In acciaio trattato, massima rigidità e resistenza alla corrosione. Minima dilatazione termica.

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 length of the body by adding a spacer. The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.




**G90-5**

TYPE 1

9.G90.05001

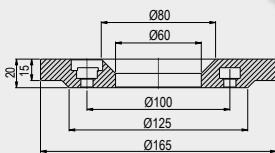
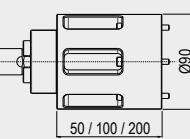
**NEW****Dati tecnici - Technical data**

	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	optional optional

**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

**Opzioni - Options**
USCITA  
OUTPUT

Weldon Max Ø6

optional


**IMBALLO & PESO:**  
 PACK & WEIGHT: Max. Kg

optional

**G90-7**

TYPE 1

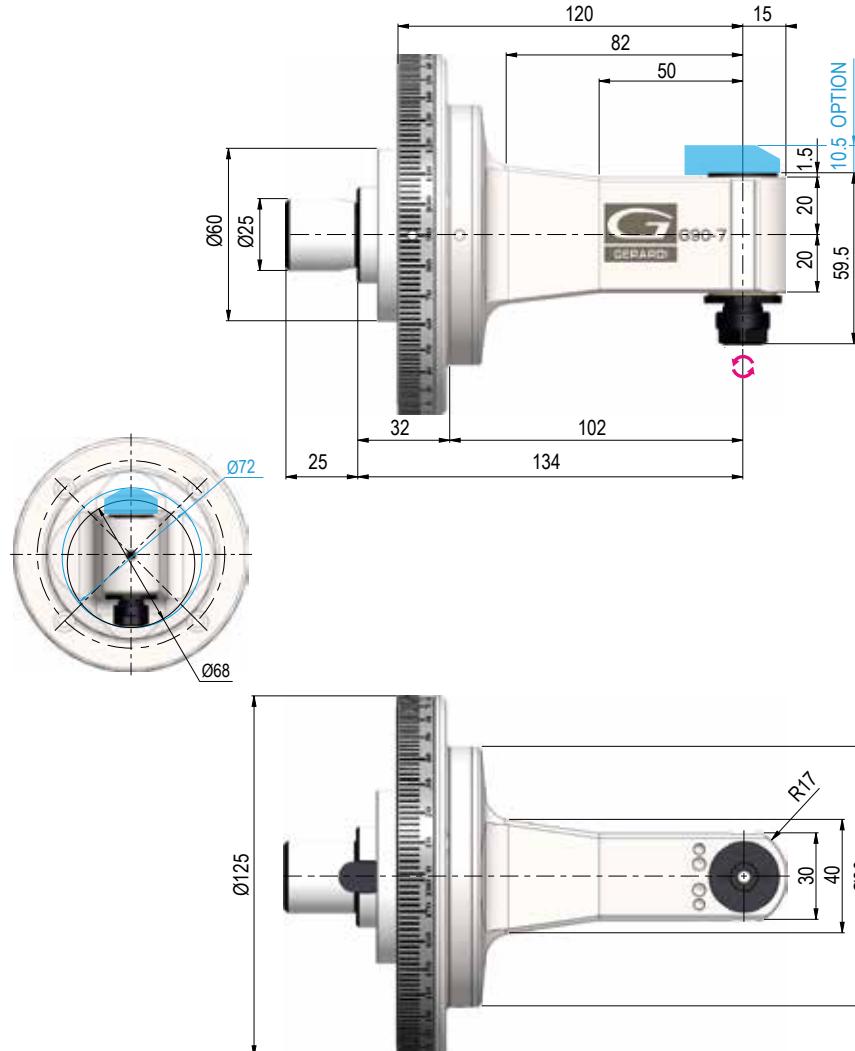
Code:

9.G90.07001

Price:

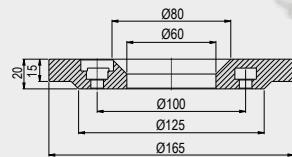
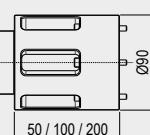
**Dati tecnici - Technical data**

	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	optional    optional

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 1**

**Prolunga**  
Extension  
**TIPO - TYPE 1**
**Dotazione Standard**  
Standard Equipment

Valigetta - Flangia universale - Ghiera ER -  
Cone - 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**REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING DISTRIBUTOR**DRY RUNNING POSSIBLE**

Max 10 Bar

optional

USCITA  
OUTPUT

Weldon Max Ø8

optional

DOPPIA USCITA  
DOUBLE OUTPUT

ER11 - ER8 M

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

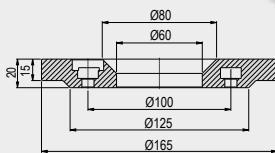
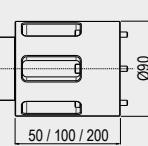


Nm 5

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	opt.	opt.	optional

**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

**Opzioni - Options**

 REFR. DAL DISTRIBUTORE  
 COOLANT THROUGH ROTATING DISTRIBUTOR

**DRY RUNNING POSSIBLE**

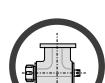
Max 10 Bar

optional

 DOPPIA USCITA  
 DOUBLE OUTPUT

ER11 - ER8 M

optional


**IMBALLO & PESO**  
**PACK & WEIGHT:** Max. Kg
USCITA  
OUTPUT

Weldon Max Ø8

optional

**G90-10**

TYPE 1

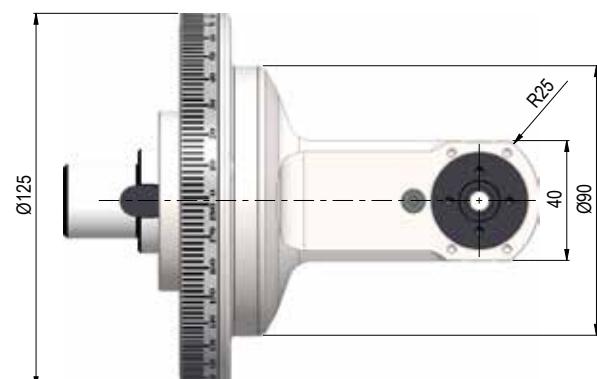
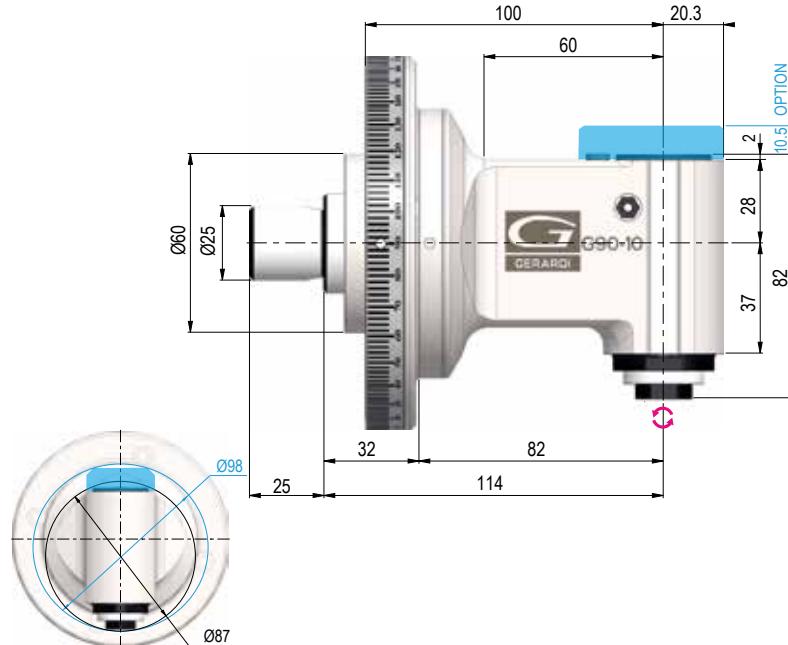
Code:

9.G90.10001

Price:

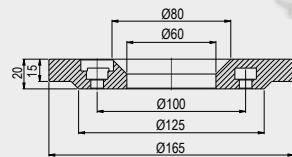
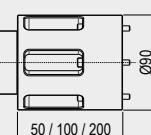
**Dati tecnici - Technical data**

	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	optional    optional

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 1**

**Prolunga**  
Extension  
**TIPO - TYPE 1**
**Dotazione Standard**  
Standard Equipment

Valigetta - Flangia universale - Ghiera ER -  
Cone - 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**REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE    DRY RUNNING NOT POSSIBLE

Max 10 Bar    Max 40 bar

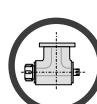


optional

DOPPIA USCITA  
DOUBLE OUTPUT

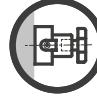
ER 16 / ER 11 M

optional

USCITA  
OUTPUT

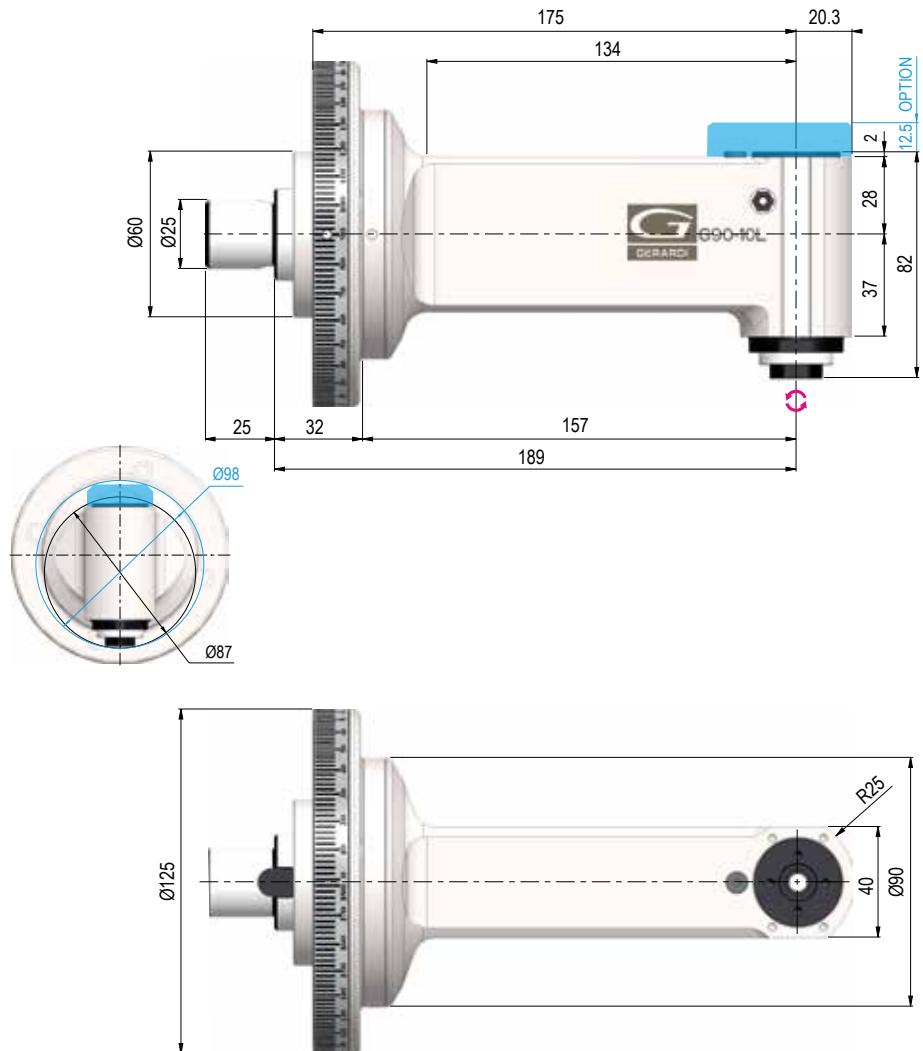
Weldon Max Ø10

optional

USCITA  
OUTPUT  
Portafresa - Toolholder  
Ø13

optional




**G90-10L**

TYPE 1

Code:

9.G90.10L01

Price:

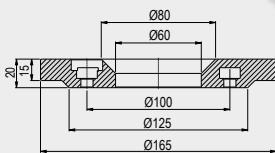
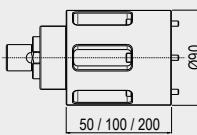

**Dati tecnici - Technical data**

	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	optional    optional

**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 &amp; WEIGHT: Max. Kg

REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE    DRY RUNNING NOT POSSIBLE

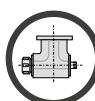
Max 10 Bar    Max 40 bar

optional

DOPPIA USCITA  
DOUBLE OUTPUT

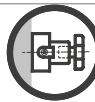
ER 16 / ER 11 M

optional

USCITA  
OUTPUT

Weldon Max Ø10

optional

USCITA  
OUTPUT  
Portafresa - Toolholder  
Ø13

optional

**G90-16**

TYPE 1

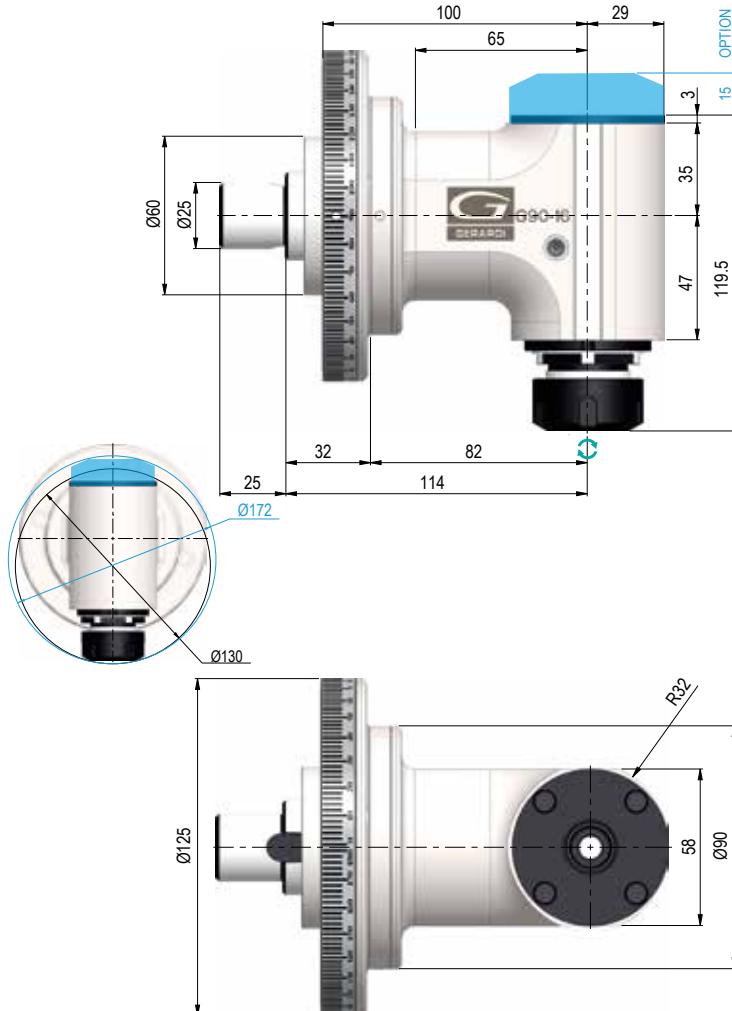
Code:

9.G90.16001

Price:

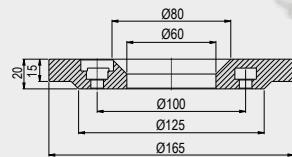
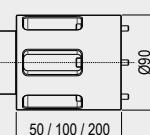
**Dati tecnici - Technical data**

	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	optional    optional

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 1**

**Prolunga**  
Extension  
**TIPO - TYPE 1**
**Dotazione Standard**  
Standard Equipment

Valigetta - Flangia universale - Ghiera ER -  
Cone - 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**
USCITA  
OUTPUT  
Portafresa - Toolholder  
Ø16  
**optional**

USCITA  
OUTPUT  
Weldon Max Ø16  
**optional**

DOPPIA USCITA  
DOUBLE OUTPUT  
ER 25/ ER 16 M  
**optional**

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

USCITA  
OUTPUT  
HSK 32  
**optional**

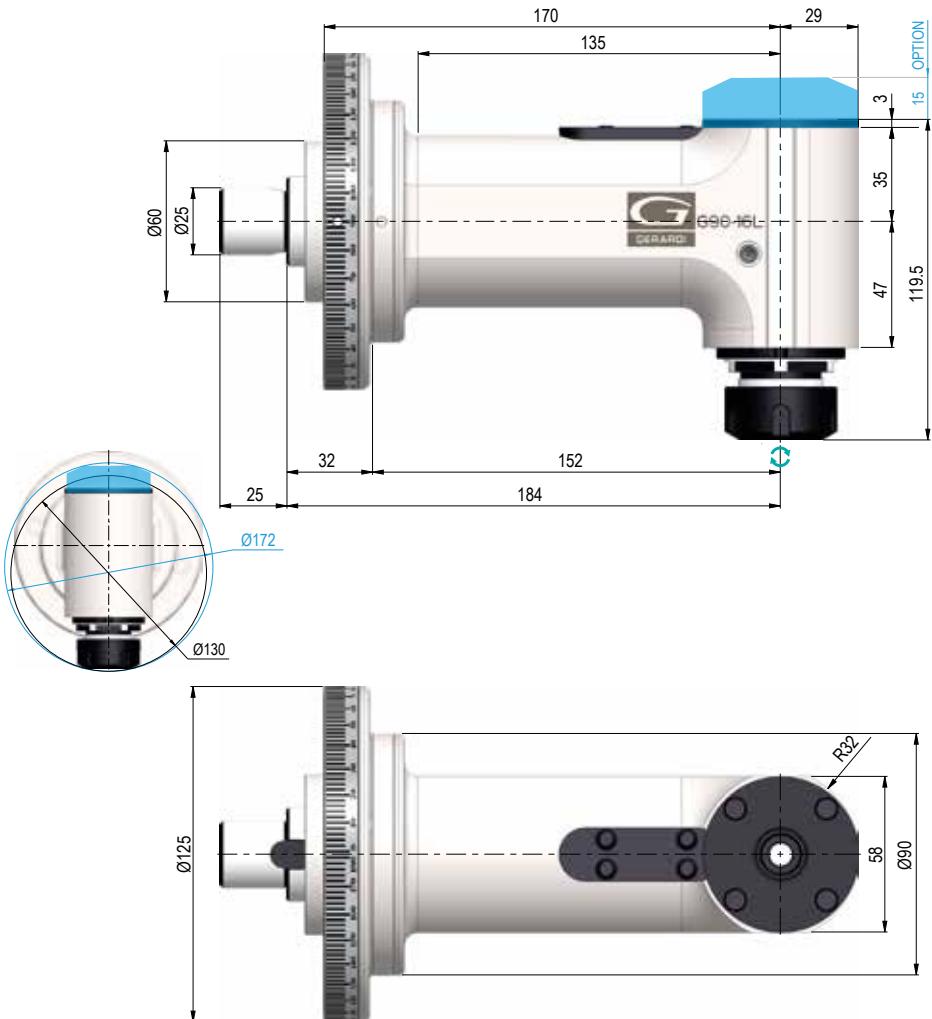
**G90-16L**

TYPE 1

Code:

9.G90.16L01

Price:

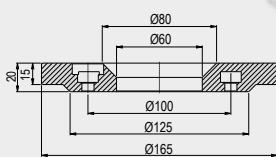
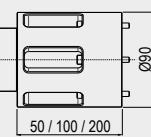

**Dati tecnici - Technical data**

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

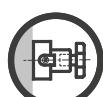


SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

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	50
Prezzo EXTRA Price €	opt.	std	std	std	opt.	std

**Flangia Universale**  
**Universal Flange**  
**TIPO - TYPE 1**

**Prolunga**  
**Extension**  
**TIPO - TYPE 1**

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

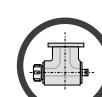
 Valigetta - Flangia universale - Ghiera ER -  
 Cono std - Chiavi di servizio - Tubetto di  
 grasso - Libro istruzioni  
 Special bag - Universal flange - ER nut - Shank -  
 Wrenches - Grease tube - Instruction book

**IMBALLO & PESO**  
 PACK & WEIGHT: Max. Kg

 USCITA  
 OUTPUT  
 Portafresa - Toolholder  
 Ø16
 

optional


 USCITA  
 OUTPUT  
 Weldon Max Ø16
 

optional


 USCITA  
 OUTPUT  
 DOPPIA USCITA  
 DOUBLE OUTPUT  
 ER 25 / ER 16 M
 

optional


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

optional


 USCITA  
 OUTPUT  
 HSK 32
 

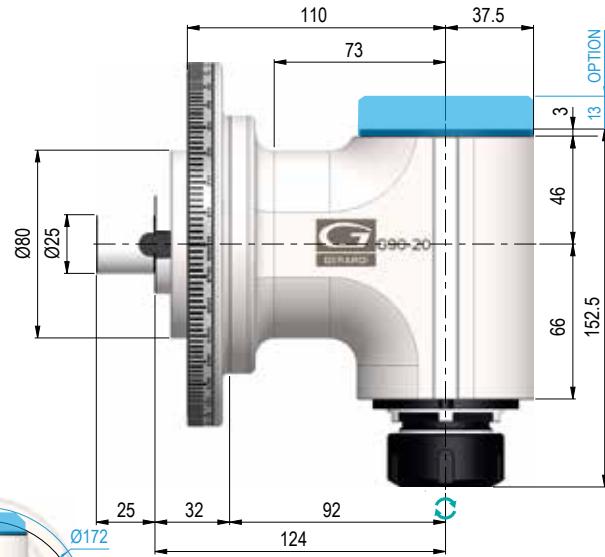
optional

**G90-20**
**TYPE 2**

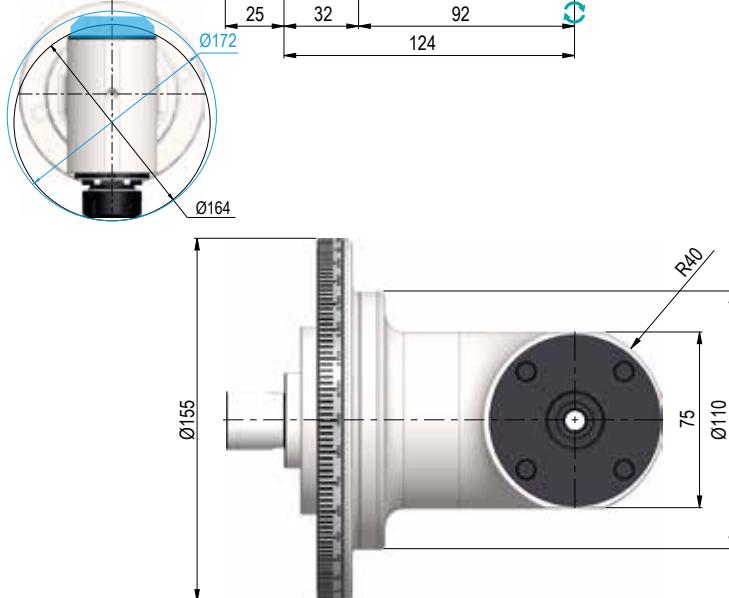
Code:

9.G90.20001

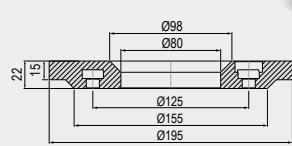
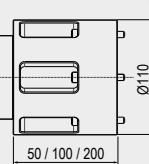
Price:


**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
<i>Prezzo EXTRA Price €</i>	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional	optional optional

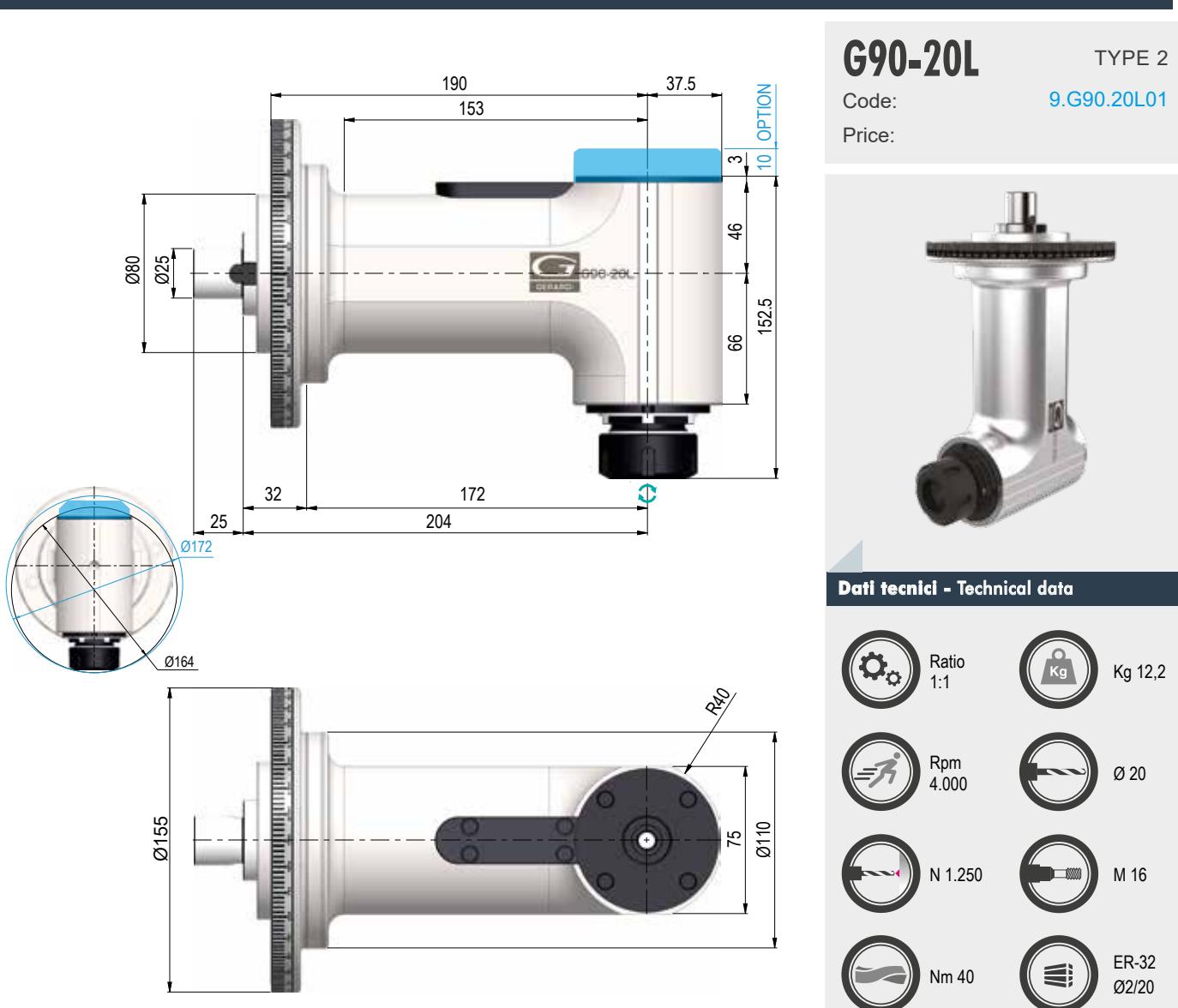
**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 2**

**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 <b>optional</b>		REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR <b>DRY RUNNING POSSIBLE</b> MAX 10bar <b>optional</b>		USCITA OUTPUT Weldon Max Ø20 <b>optional</b>		USCITA OUTPUT Portafresa Toolholder Ø22 <b>optional</b>		DOPPIA USCITA DOUBLE OUTPUT ER32 - ER20 M <b>optional</b>
	USCITA OUTPUT C4 <b>optional</b>		REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR <b>DRY RUNNING NOT POSSIBLE</b> MAX 40bar <b>optional</b>		USCITA OUTPUT HSK 40 <b>optional</b>		USCITA OUTPUT ISO/CAT/ BT 30 <b>optional</b>		



## G90-20L

TYPE 2

Code:

9.G90.20L01

Price:



### Dati tecnici - Technical data

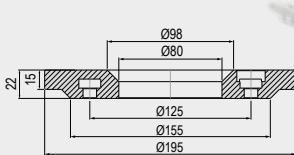
	Ratio 1:1		Kg 12,2
	Rpm 4.000		Ø 20
	N 1.250		M 16
	Nm 40		ER-32 Ø2/20



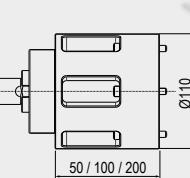
SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

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 std	opt. opt. opt.	optional optional optional	optional optional

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 2**



**Prolunga**  
Extension  
**TIPO - TYPE 2**



### Dotazione Standard Standard Equipment

### Opzioni - Options

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



	ALTA VELOCITÀ HIGH SPEED 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		USCITA OUTPUT 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		

**G90-30**

TYPE 3

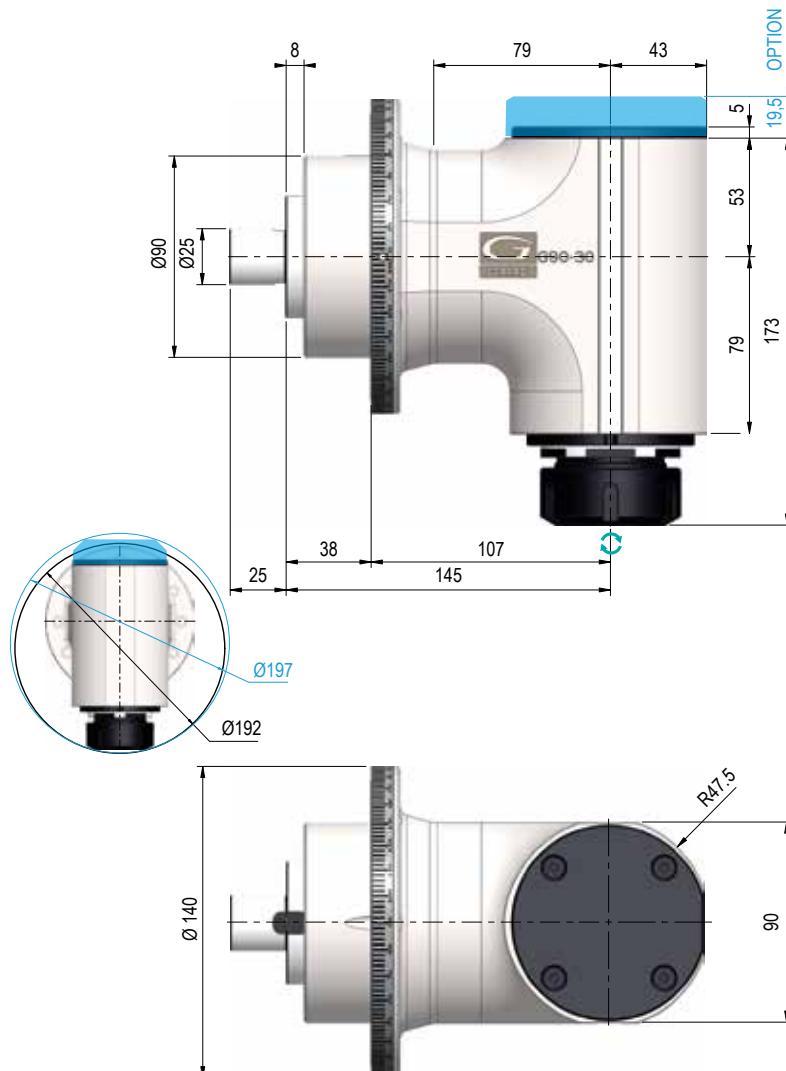
Code:

9.G90.30001

Price:

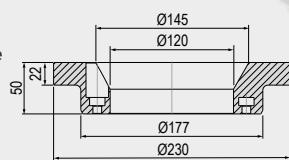
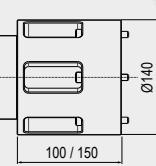
**Dati tecnici - Technical data**

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

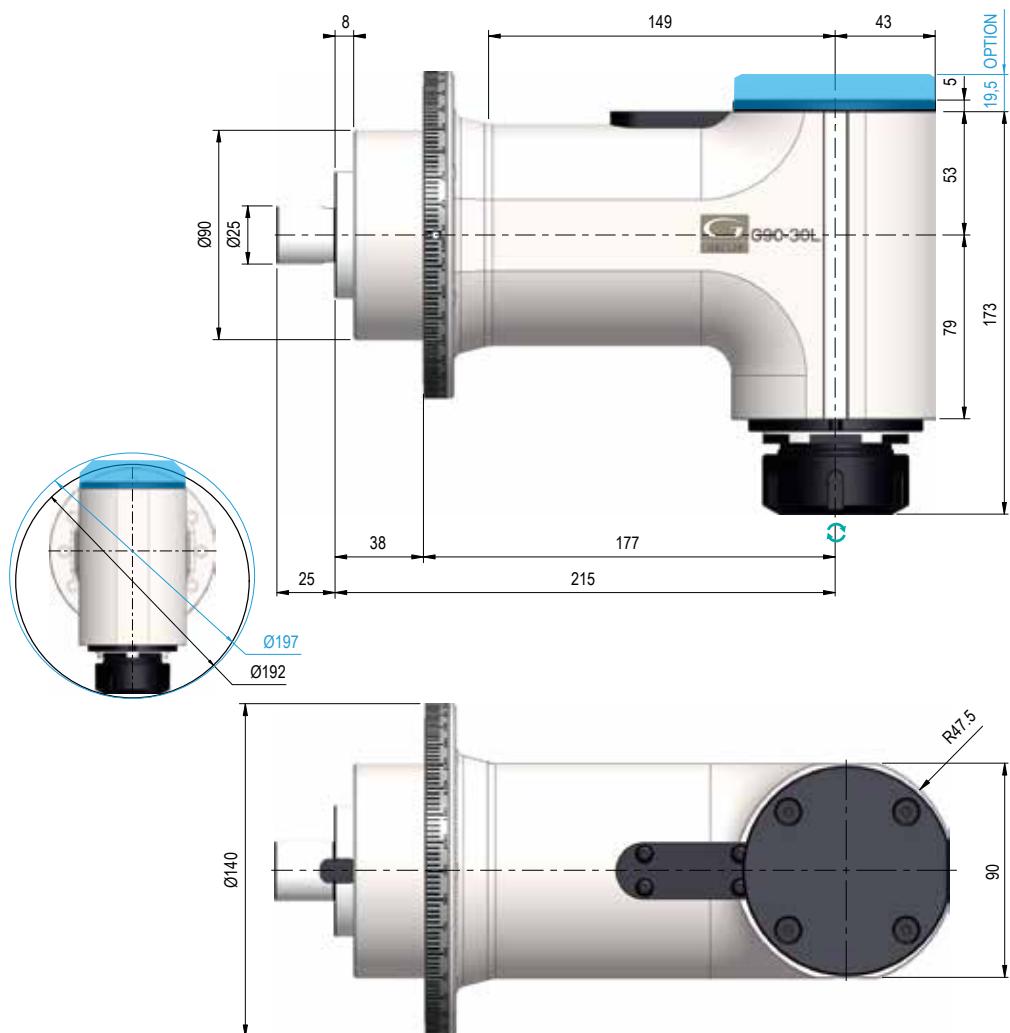


SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

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	63	80
Prezzo EXTRA Price €	std	std	std	std	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 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 Ø27 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 30bar optional		USCITA OUTPUT HSK 40 optional		USCITA OUTPUT ISO 30 optional		


**G90-30L**

TYPE 3

Code:

9.G90.30L01

Price:

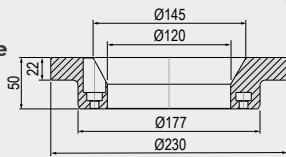
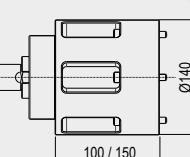

**Dati tecnici - Technical data**

	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	63	80
Prezzo EXTRA Price €	std	std	std	std	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 optional		REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR <b>DRY RUNNING POSSIBLE</b> MAX 10bar optional		USCITA OUTPUT Weldon Max Ø20 optional		USCITA OUTPUT Portafresa Toolholder Ø27 optional		DOPPIA USCITA DOUBLE OUTPUT ER32 - ER20 M optional
	USCITA OUTPUT C4 optional		REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR <b>DRY RUNNING NOT POSSIBLE</b> MAX 30bar optional		USCITA OUTPUT HSK 40 optional		USCITA OUTPUT ISO 30 optional		

**G90-S40**

TYPE 4

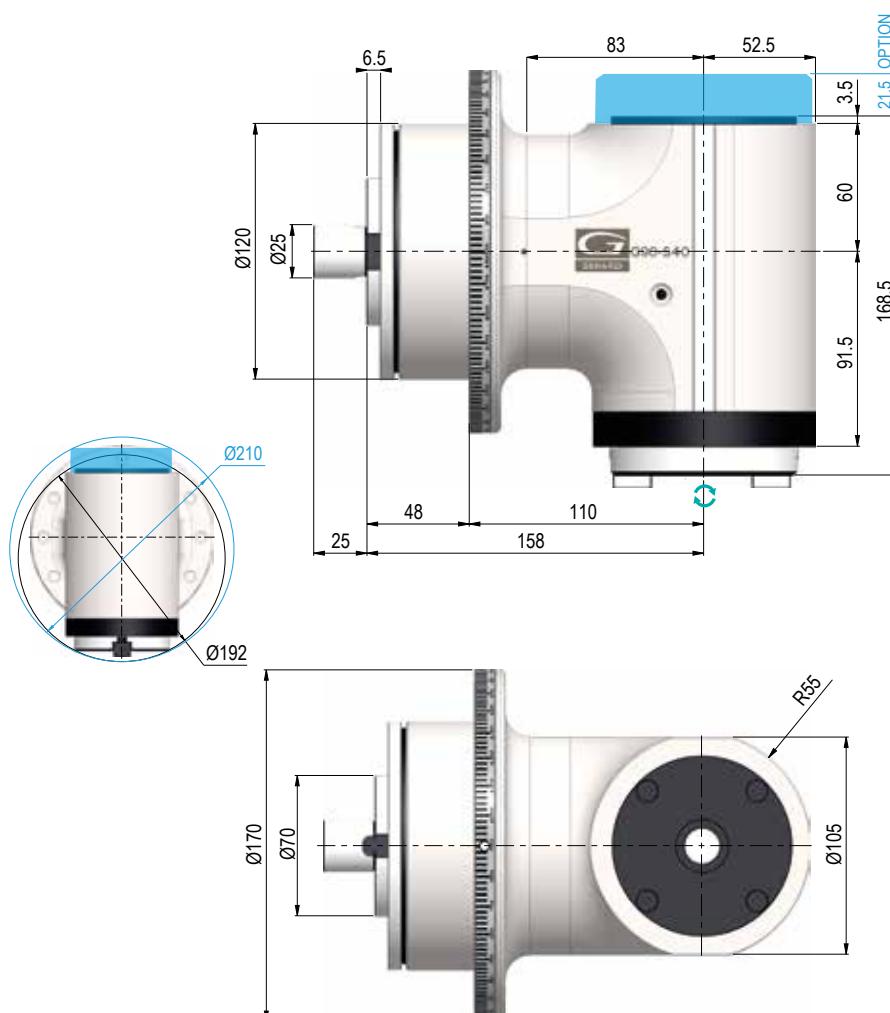
Code:

9.G90.S4001

Price:

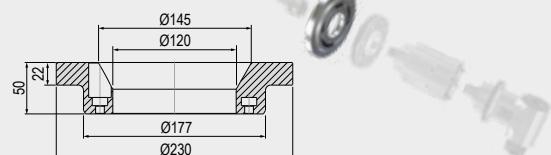
**Dati tecnici - Technical data**

	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
Prezzo EXTRA Price €	std	std	std	std	std	std	opt.	opt.	opt.	optional	optional	optional	50

**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**

	USCITA OUTPUT		USCITA OUTPUT
	C4		C5
optional		optional	
	REFR. DAL DISTRIBUTORE COOLANT THROUGH ROTATING DISTRIBUTOR		ALTA VELOCITÀ HIGH SPEED
		DRY RUNNING POSSIBLE	5.000 Rpm
		Max 10 bar	
		DRY RUNNING NOT POSSIBLE	
		Max 30 bar	
	optional		optional

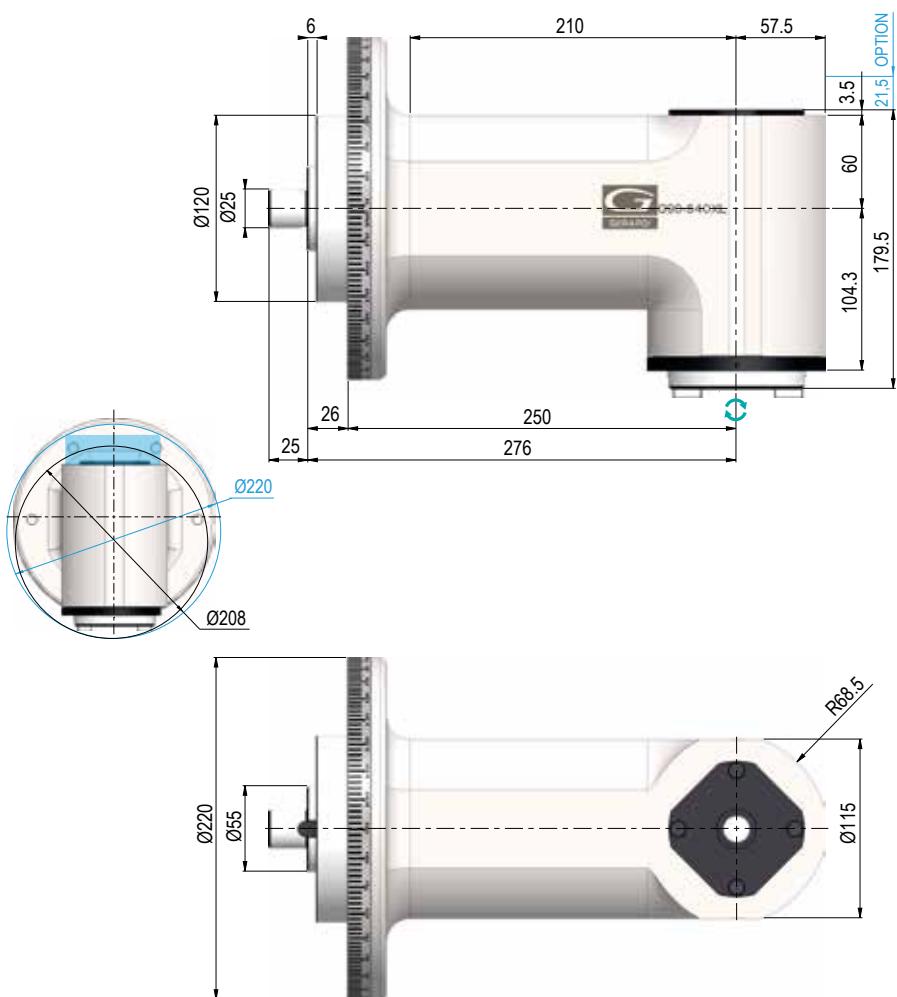
**G90-S40XL**

TYPE 5

Code:

9.G90.S40XL1

Price:

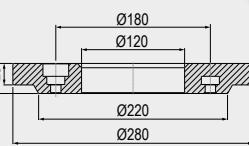

**Dati tecnici - Technical data**

	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	63	80
Prezzo EXTRA Price €	std	std	std	std	opt.	opt.

**Flangia Universale**  
Universal Flange  
**TIPPO - TYPE 5**

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

Cassa in legno - Flangia universale - Ghiera ER -  
Cone - 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

USCITA  
OUTPUT

C4

C5

REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING DISTRIBUTOR

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

optional

USCITA  
OUTPUT

HSK 63

optional

ALTA VELOCITÀ  
HIGH SPEED

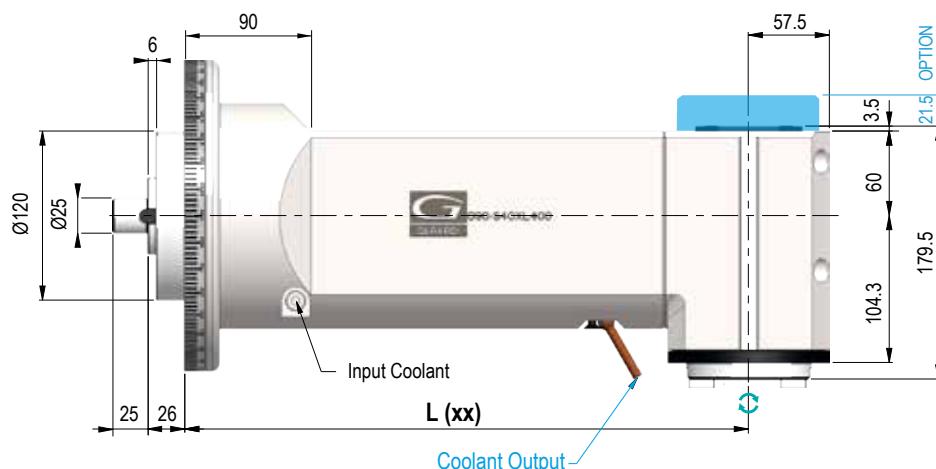
5.000 Rpm

optional

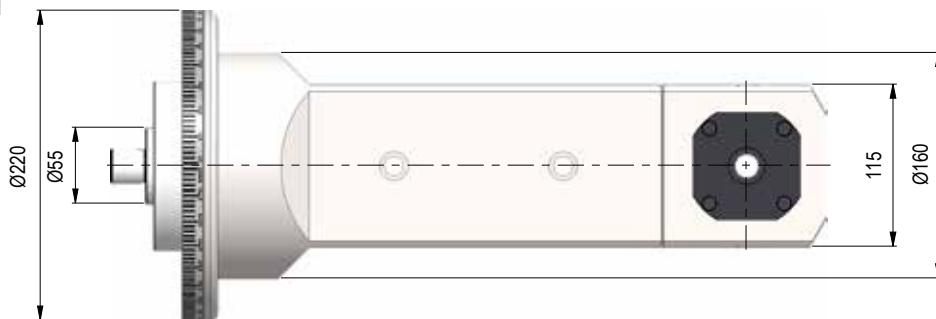
**G90-S40XL xx**

TYPE 5

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

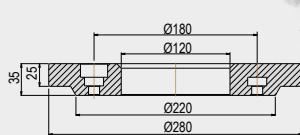
**Dati tecnici - Technical data**

	Ratio 1:1		$L = 400 - 57 \text{ Kg}$ $L = 500 - 67 \text{ Kg}$ $L = 600 - 78 \text{ Kg}$ $L = 700 - 86 \text{ Kg}$
	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	63	80
Prezzo EXTRA Price €	std	std	std	std	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**
LUNGHEZZE SPECIALI  
SPECIAL LENGTH

on request

USCITA  
OUTPUT

HSK 63



optional

USCITA  
OUTPUT

C4

optional

C5

optional

REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING  
DISTRIBUTORDRY RUNNING  
POSSIBLE

Max 10 bar

DRY RUNNING  
NOT POSSIBLE

Max 30 bar



optional

ALTA VELOCITÀ  
HIGH SPEED

5.000 Rpm

optional

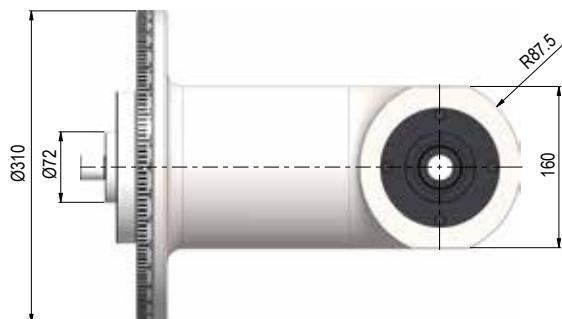
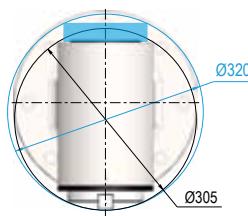
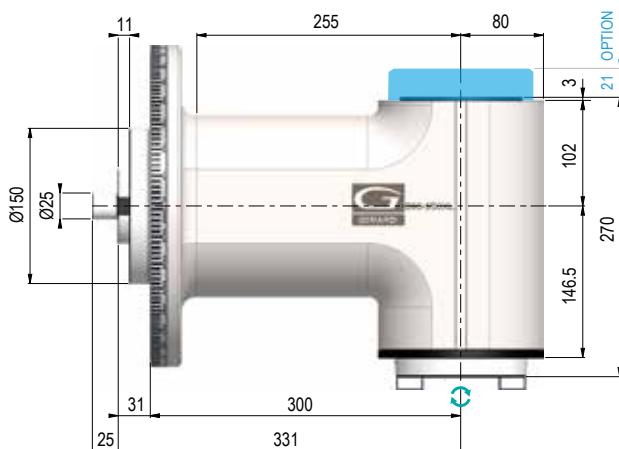
**G90-S50**

TYPE 6

Code:

9.G90.S5001

Price:

**Dati tecnici - Technical data**

1:1



Kg 77



3.000



Ø45



N 3.300



M36

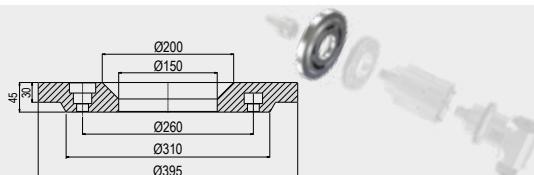


Nm 400

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	63	80
Prezzo EXTRA Price €	std	std	std	std	opt.	opt.

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 6**
**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**
Cassa in legno - Flangia universale - Ghiera ER -  
Cone - 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


C6

C8

on request

USCITA  
OUTPUT

HSK 63

optional

USCITA  
OUTPUT

C6

C8

on request

REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING DISTRIBUTOR

DRY RUNNING POSSIBLE DRY RUNNING NOT POSSIBLE

Max 10 bar Max 30 bar

optional

ALTA VELOCITÀ  
HIGH SPEED

4.000 Rpm

optional

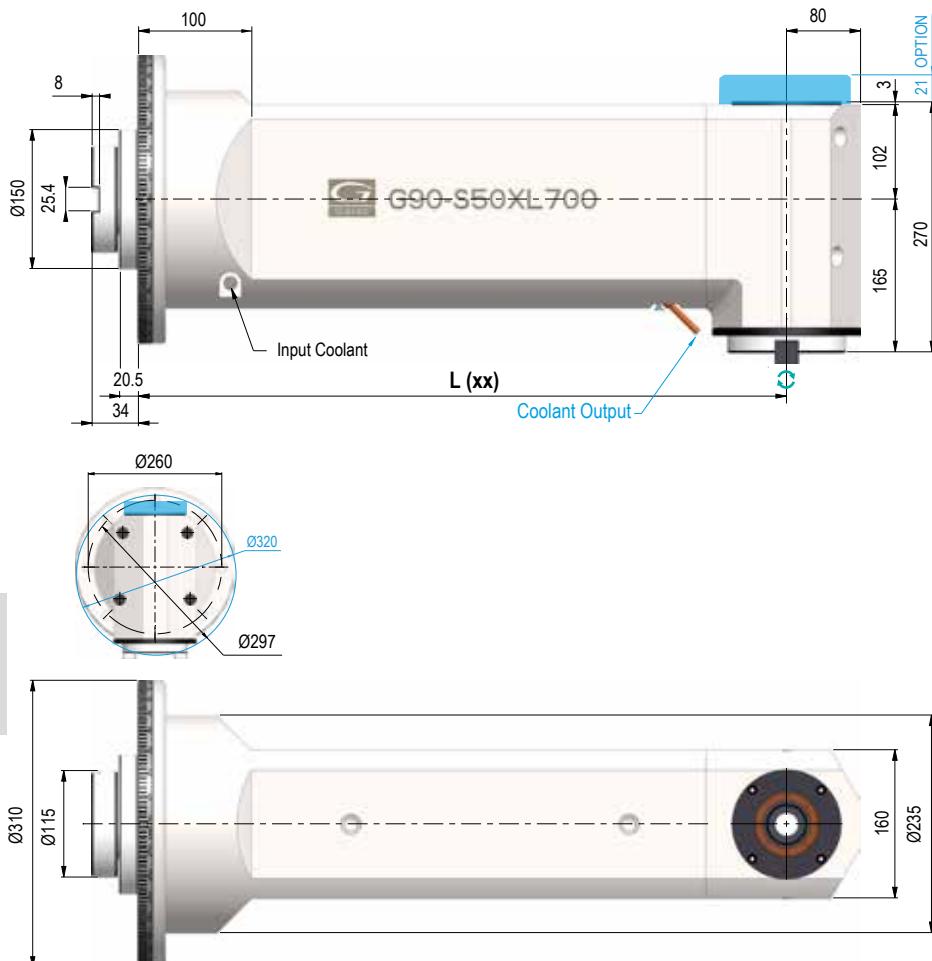
**G90-S50XL xx**

TYPE 6

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

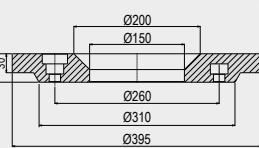

**Dati tecnici - Technical data**

	Ratio 1:1		$L = 400 - 149 \text{ Kg}$ $L = 500 - 169 \text{ Kg}$ $L = 600 - 190 \text{ Kg}$ $L = 700 - 211 \text{ Kg}$ $L = 800 - 231 \text{ Kg}$
	Rpm 3.000		$\varnothing 45$
	N 3.300		M36
	Nm 400		ISO /CAT BT 50

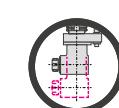


SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE

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
Prezzo EXTRA Price €	std	std	std	std	opt.	opt.

**Flangia Universale**  
 Universal Flange  
**TIPO - TYPE 6**

**DOTAZIONE STANDARD**  
**STANDARD EQUIPMENT**
**OPZIONI - OPTIONS**

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

**IMBALLO & PESO**  
 PACK & WEIGHT: Max. Kg
LUNGHEZZE SPECIALI  
SPECIAL LENGTH
 REFR. DAL DISTRIBUTORE  
 COOLANT THROUGH ROTATING  
 DISTRIBUTOR  
 DRY RUNNING  
 POSSIBLE  
 Max 10 bar | Max 30 bar  
 optional
USCITA  
OUTPUT

HSK 63

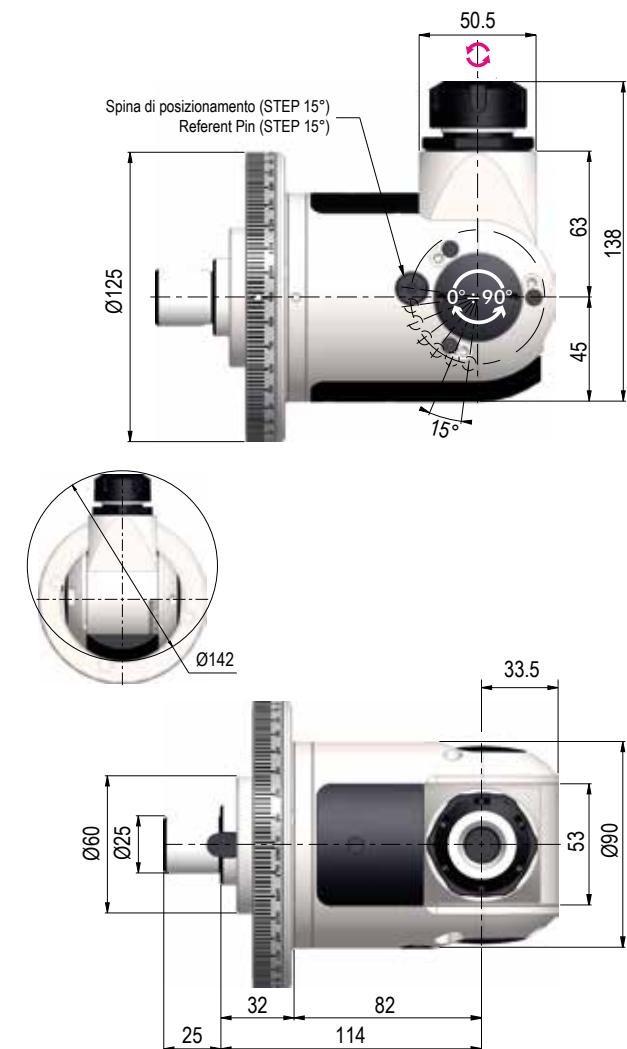
optional

USCITA  
OUTPUT

C6 | C8

on request

 ALTA VELOCITÀ  
 HIGH SPEED  
 4.000 Rpm  
 optional


**GMU-16**

TYPE 1

Code: 9.GMU.16001

Price:

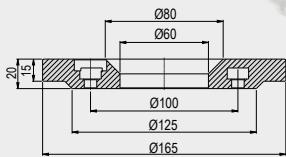
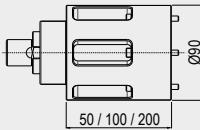

**Dati tecnici - Technical data**

	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	opt.    std    std	opt.    opt.    opt.	optional	optional    optional

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 1**

**Prolunga**  
Extension  
**TIPO - TYPE 1**

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

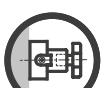
Valigetta - Flangia universale - Ghiera ER -  
Cono std - Chiavi di servizio - Tubetto di  
grasso - Libro istruzioni  
Special bag - Universal flange - ER nut - Shank -  
Wrenches - Grease tube - Instruction book

**IMBALLO & PESO**

PACK &amp; WEIGHT: Max. Kg

SPINA POSIZIONE RAPIDA  
QUICK POSITIONING PINPortafresa  
Toolholder Ø16

optional

USCITA  
OUTPUTPortafresa  
Toolholder Ø16

optional

USCITA  
OUTPUT  
Weldon Max Ø16

optional

ALTA VELOCITÀ  
HIGH SPEED

6.000 Rpm

optional

**GMU-20**

TYPE 2

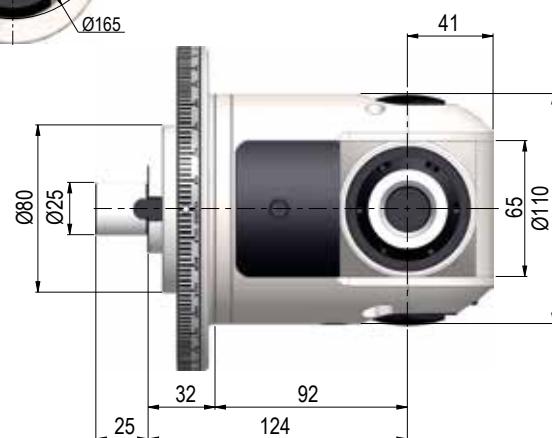
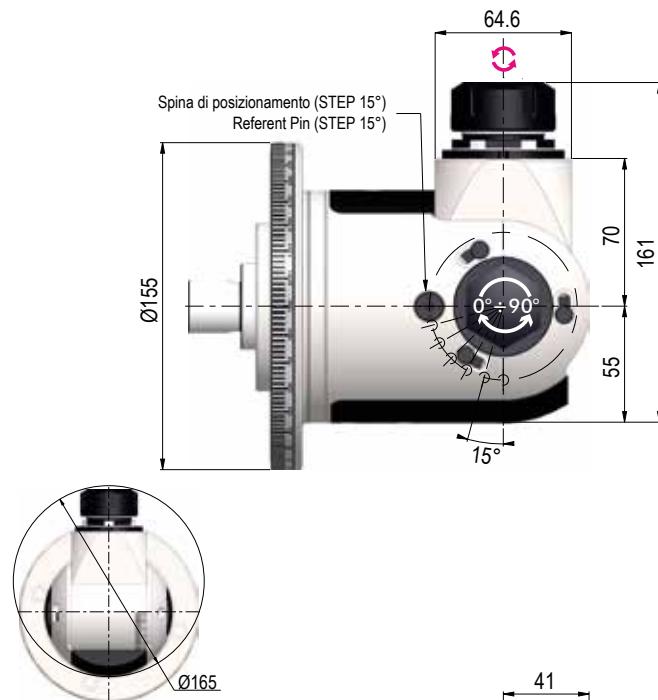
Code:

9.GMU.20001

Price:

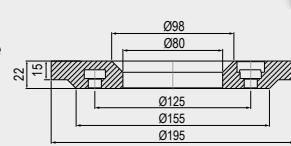
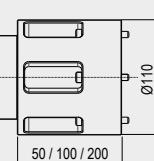

**Dati tecnici - Technical data**

	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	optional    optional

**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**

 USCITA  
 OUTPUT  
 Weldon Max Ø20

optional

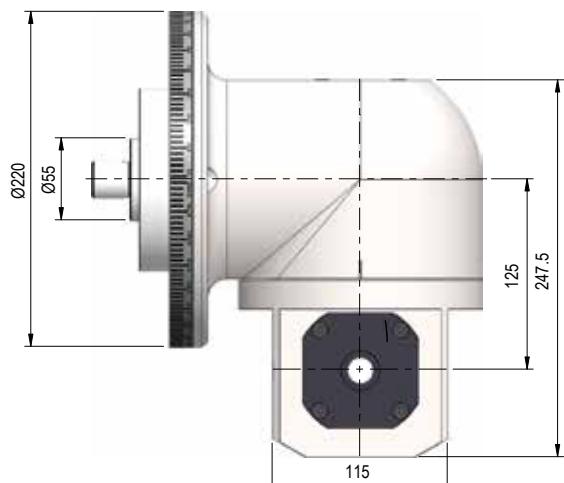
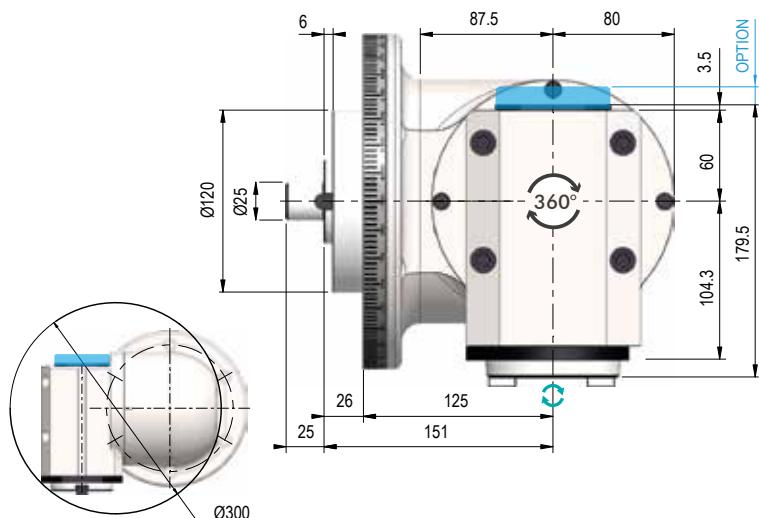

 SPINA POSIZIONE RAPIDA  
 QUICK POSITIONING PIN  
 Angolazioni personalizzate  
 Customized angles

optional

 ALTA VELOCITÀ  
 HIGH SPEED

6.000 Rpm

optional


**GMU-S40-125** TYPE 6  
Code: 9.GMU.S4001.125

Price:

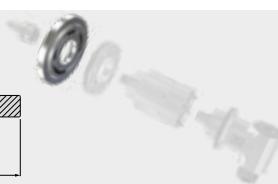
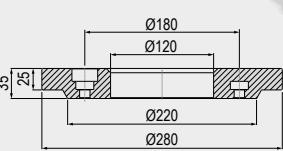
**Dati tecnici - Technical data**

	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		optional	optional

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 6**

**Dotazione Standard**  
**Standard Equipment**

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

**Opzioni - Options**

REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING DISTRIBUTOR

**DRY RUNNING POSSIBLE**

Max 10 bar

optional

USCITA  
OUTPUT

HSK 63

optional


**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg
USCITA  
OUTPUT

C4

optional

ALTA VELOCITÀ  
HIGH SPEED

4.000 Rpm

optional





series  
**GMU**

**Classic Line - MTC Series**  
ANGLE HEADS

1

## GMU-S40

TYPE 5

Code:

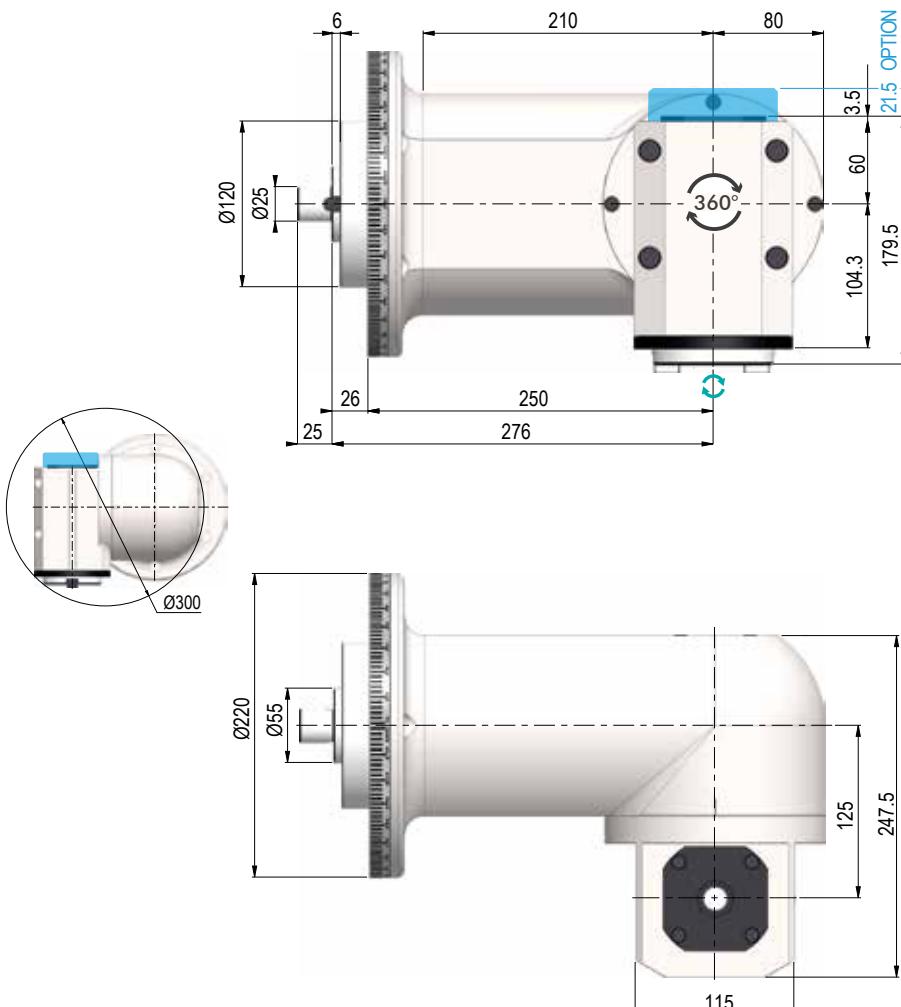
9.GMU.S4001

Price:



### Dati tecnici - Technical data

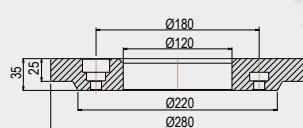
	Ratio 1:1		Kg 49,5
	Rpm 3.000		Ø 30
	N 2.400		M 22
	Nm 100		ISO /CAT BT 40



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	63	80
Prezzo EXTRA Price €	std	std	std	std	opt.	opt.

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 5**



### Dotazione Standard Standard Equipment

Cassa in legno - Flangia universale - Ghiera ER -  
Cone - 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

REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING DISTRIBUTOR

#### DRY RUNNING POSSIBLE

Max 10 bar

optional

USCITA  
OUTPUT

HSK 63

optional

USCITA  
OUTPUT

C6

optional

ALTA VELOCITÀ  
HIGH SPEED

4.000 Rpm

optional

TYPE 6

**GMU-S50**

9.GMU.S5001

Code:

Price:

**Dati tecnici - Technical data**Ratio  
1:1

Kg 121

Rpm  
3.000

Ø45



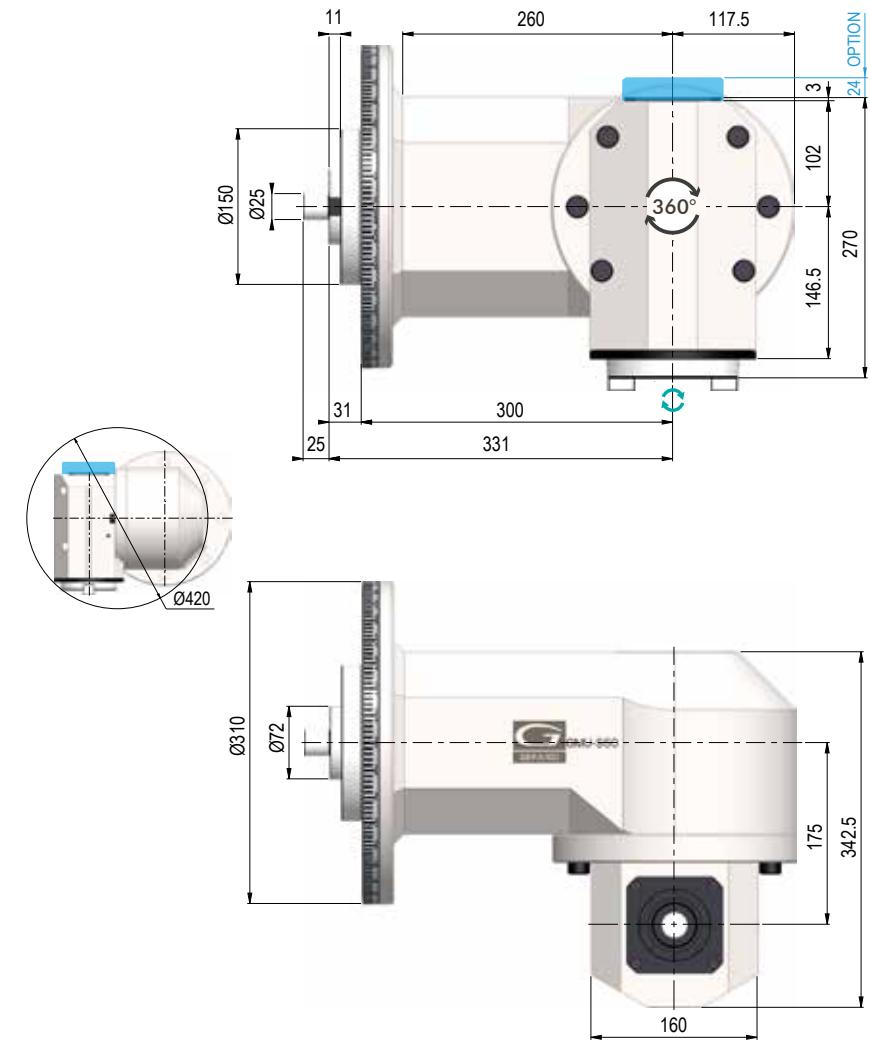
N 3.300



M36

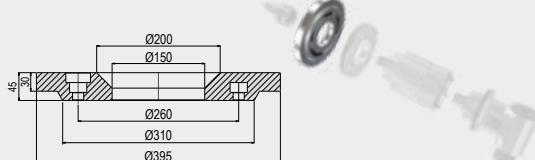


Nm 220

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	63	80
Prezzo EXTRA Price €	std	std	std	std	opt.	opt.

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 6**
**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**
Cassa in legno - Flangia universale - Ghiera ER -  
Cone - Chiavi di servizio - Tubetto di  
grasso - Libro istruzioni  
Wood box - Universal flange - ER nut - Wrenches -  
Grease tube - Shank - Instruction book

REFR. DAL DISTRIBUTORE  
COOLANT THROUGH ROTATING DISTRIBUTOR
**DRY RUNNING POSSIBLE**

Max 10 bar

optional

USCITA  
OUTPUT

HSK 63

optional

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg
USCITA  
OUTPUT

C6

optional

ALTA VELOCITÀ  
HIGH SPEED

4.000 Rpm

optional



series  
**DOUB2E**

**Classic Line - MTC Series**  
ANGLE HEADS

1

## G90-16 2U

TYPE 1

Code:

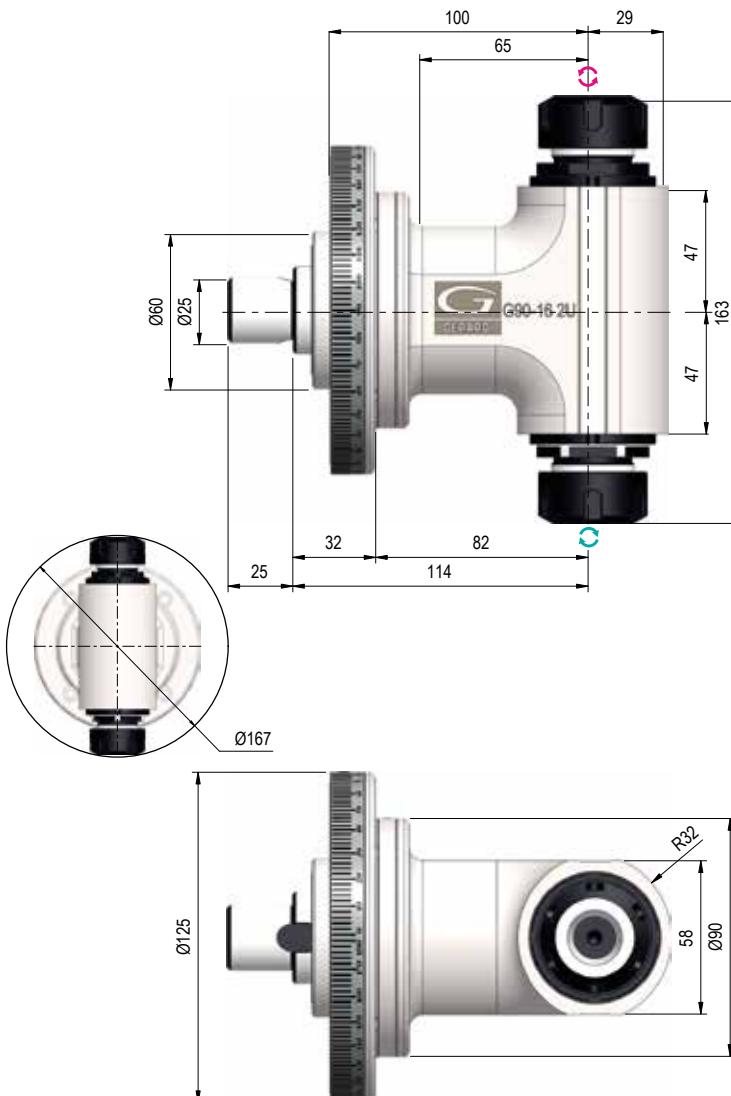
9.G90.162U01

Price:



### Dati tecnici - Technical data

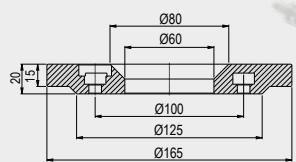
Ratio 1:1	Kg 5,6
Rpm 4.000	Ø 16
N 510	M 12
Nm 24	ER-25 Ø1/16



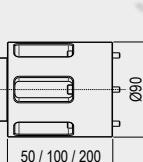
SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE  
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

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	optional    optional

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 1**



**Prolunga**  
Extension  
**TIPO - TYPE 1**



### Dotazione Standard Standard Equipment

Valigetta - Flangia universale - Ghiera ER -  
Cone - 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



USCITA  
OUTPUT  
Portafresa  
Toolholder Ø16 (X2)  
optional



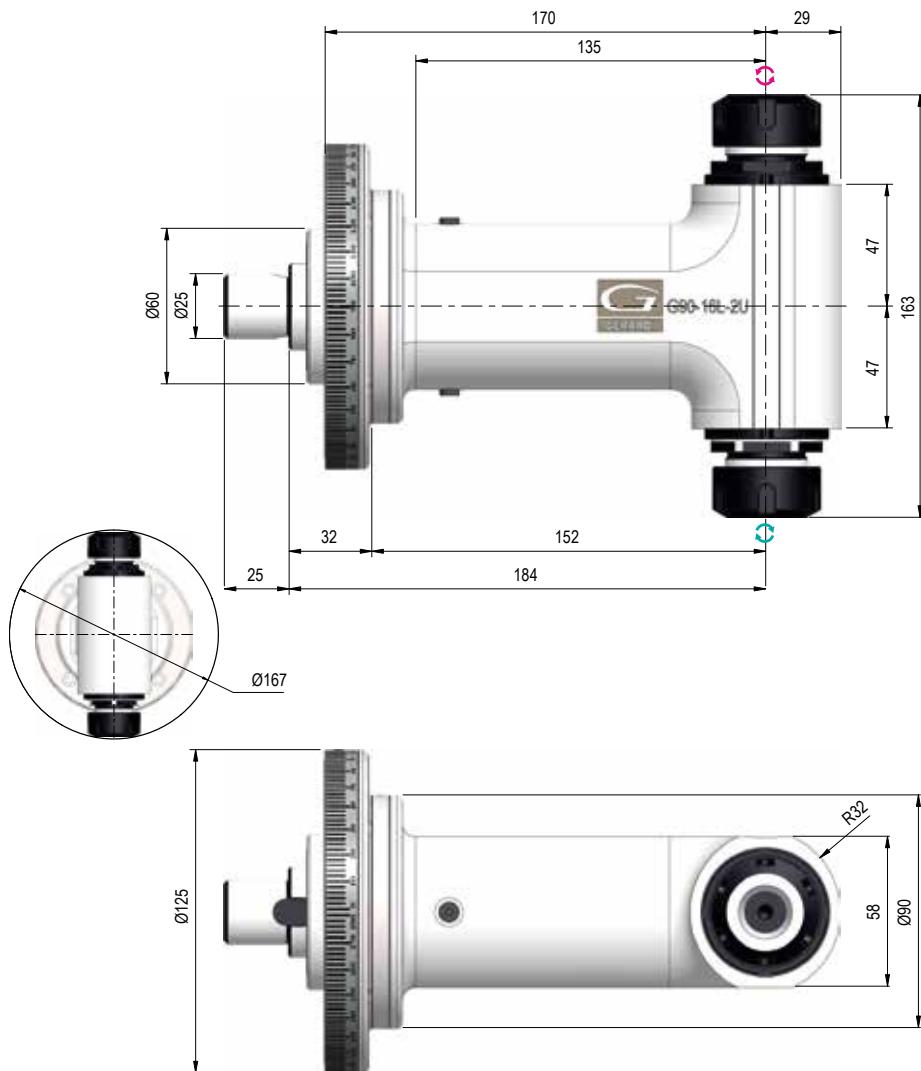
USCITA  
OUTPUT  
HSK 32 (X2)  
-



USCITA  
OUTPUT  
Weldon Max Ø16 (X2)  
optional



ALTA VELOCITÀ  
HIGH SPEED  
8.000 Rpm  
optional


**G90-16L 2U**

TYPE 1

Code: 9.G90.16L2U1

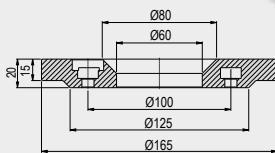
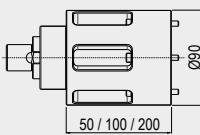
Price:


**Dati tecnici - Technical data**

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


 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	optional    optional

**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 &amp; WEIGHT: Max. Kg


**Opzioni - Options**

 USCITA  
 PORTAFRESA  
 TOOLHOLDER Ø16 (X2)  
 optional

 USCITA  
 HSK 32 (X2)  
 -

 USCITA  
 WELDON MAX Ø16 (X2)  
 optional

 ALTA VELOCITÀ  
 HIGH SPEED  
 8.000 Rpm  
 optional



series  
**DOUB2E**

**Classic Line - MTC Series**  
ANGLE HEADS

1

## G90-20 2U

TYPE 2

Code:

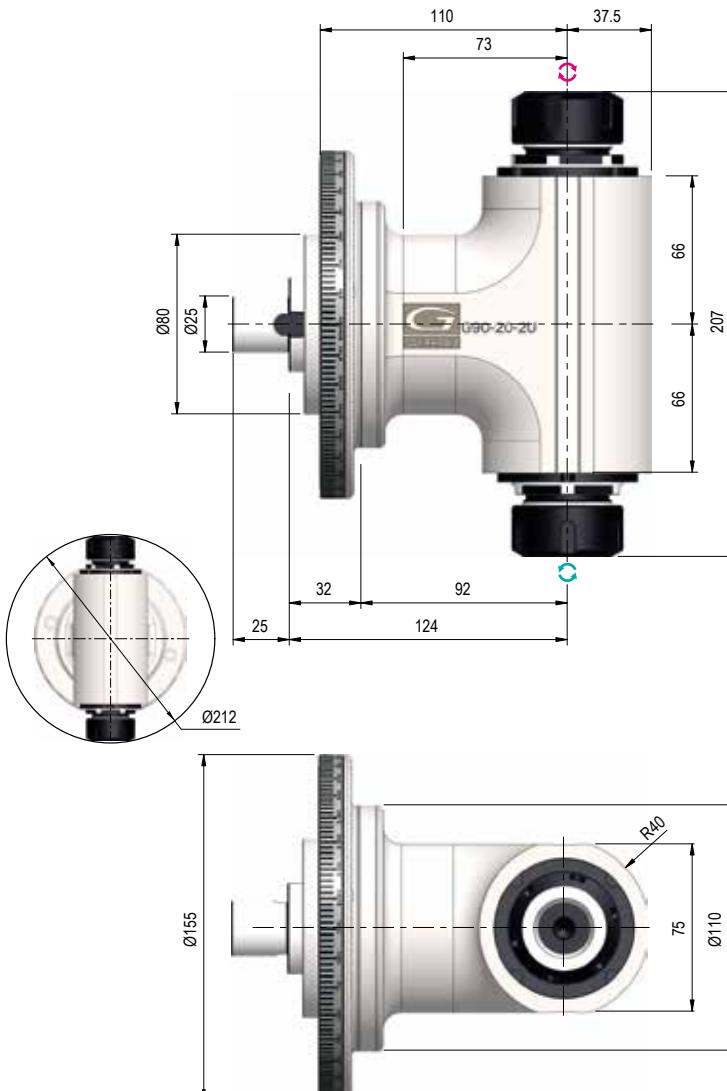
9.G90.202U01

Price:



### Dati tecnici - Technical data

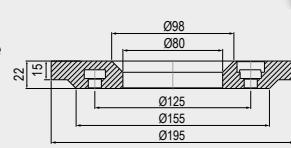
Ratio 1:1	Kg 14
Rpm 4.000	Ø 20
N 1.250	M 16
Nm 40	ER-32 Ø2/20



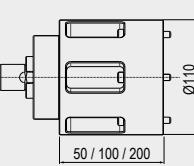
SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE  
 SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

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
Prezzo EXTRA Price €	opt.	std	std	std	std	opt.	std	std	opt.	opt.	opt.	optional optional optional

### Flangia Universale Universal Flange TIPO - TYPE 2



### Prolunga Extension TIPO - TYPE 2



### Dotazione Standard Standard Equipment

### Opzioni - Options

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



USCITA  
OUTPUT  
Portafresa  
Toolholder Ø20 (X2)

optional



USCITA  
OUTPUT  
HSK 40 (X2)

optional



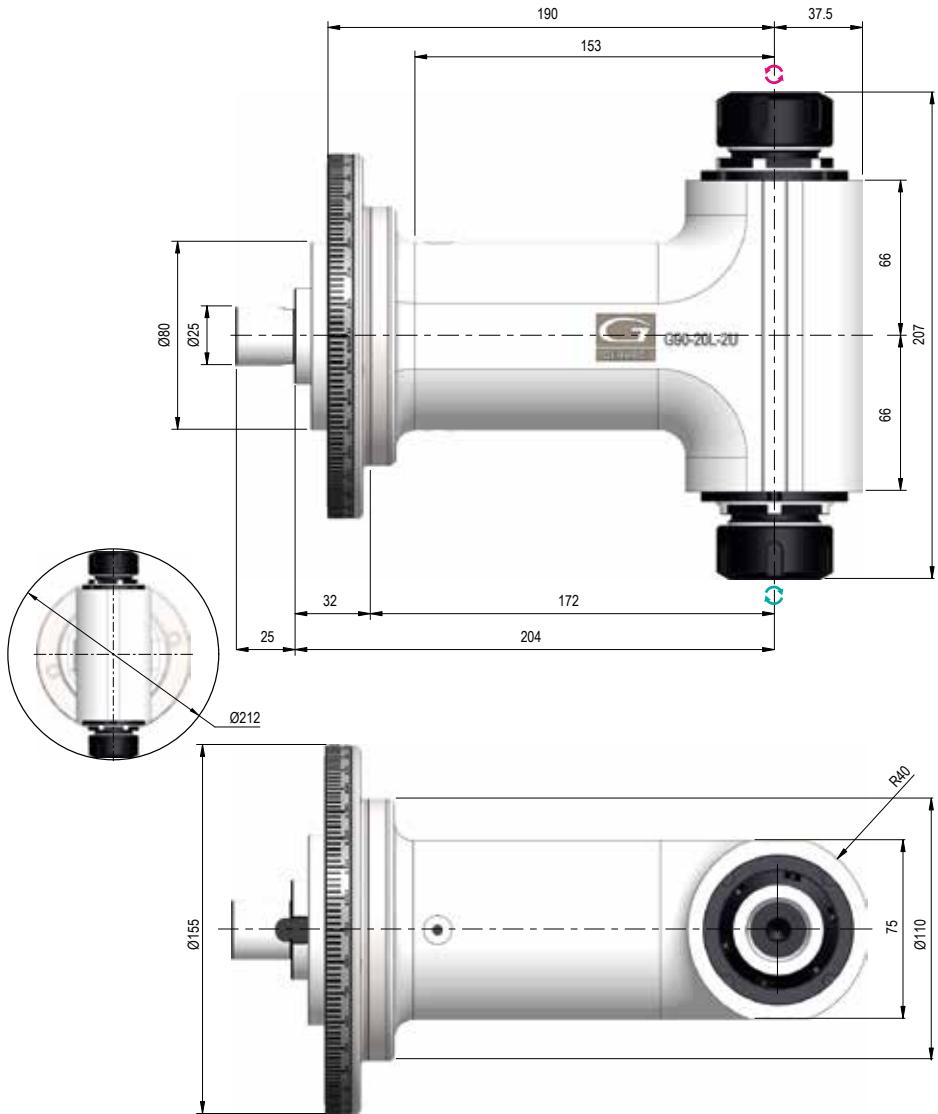
USCITA  
OUTPUT  
Weldon Max Ø20 (X2)

optional



ALTA VELOCITÀ  
HIGH SPEED  
6.000 Rpm

optional



## G90-20L 2U

TYPE 2

9.G90.20L2U1

Code:

Price:



### Dati tecnici - Technical data

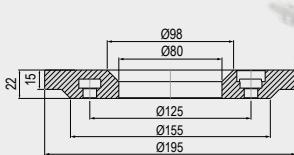
	Ratio 1:1		Kg 15,5
	Rpm 4.000		Ø 20
	N 1.250		M 16
	Nm 40		ER-32 Ø2/20



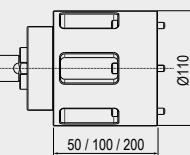
SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE  
 SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

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	optional    optional

**Flangia Universale**  
 Universal Flange  
**TIPO - TYPE 2**



**Prolunga**  
 Extension  
**TIPO - TYPE 2**

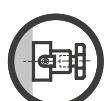


### Dotazione Standard Standard Equipment

### Opzioni - Options

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



USCITA  
 OUTPUT  
 Portafresa  
 Toolholder Ø22 (X2)

optional

USCITA  
 OUTPUT

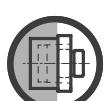
HSK 40(X2)

optional



USCITA  
 OUTPUT  
 Weldon Max Ø20 (X2)

optional



ALTA VELOCITÀ  
 HIGH SPEED  
 6.000 Rpm

optional



series  
DOUB2E

Classic Line - MTC Series  
ANGLE HEADS

1

## G90-30 2U

TYPE 3

Code:

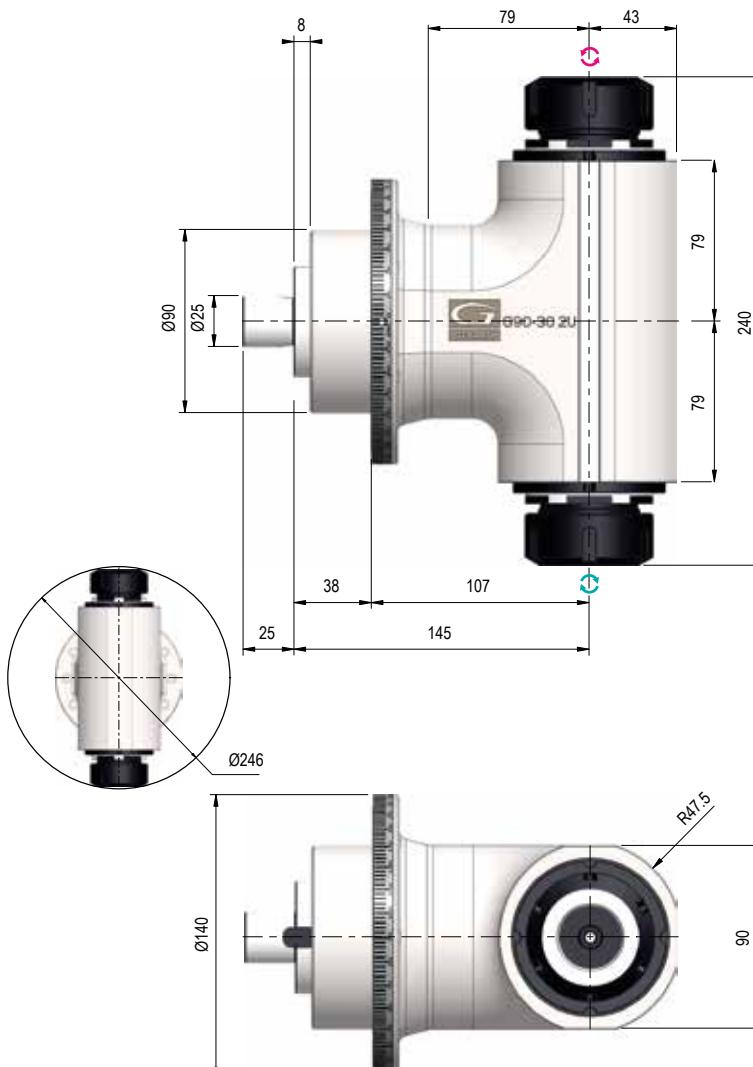
9.G90.302U01

Price:



### Dati tecnici - Technical data

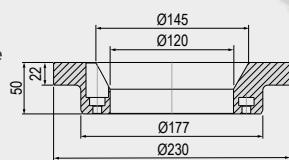
	Ratio 1:1		Kg 20
	Rpm 4.000		Ø 30
	N 1.750		M 20
	Nm 75		ER-40 Ø3/30



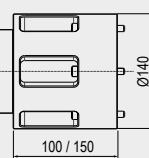
SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE  
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

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	
Prezzo EXTRA Price €	opt	std	std	opt	std	std	opt	std	std	opt.	opt.	opt.	optional

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 3**



**Prolunga**  
Extension  
**TIPO - TYPE 2**

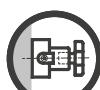


### Dotazione Standard Standard Equipment

### Opzioni - Options

Cassa in legno - Flangia universale - Ghiera ER -  
Cone - 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



USCITA  
OUTPUT  
Portafresa  
Toolholder Ø27 (X2)

optional

USCITA  
OUTPUT

HSK 40 (X2)

optional



USCITA  
OUTPUT  
Weldon Max Ø25 (X2)

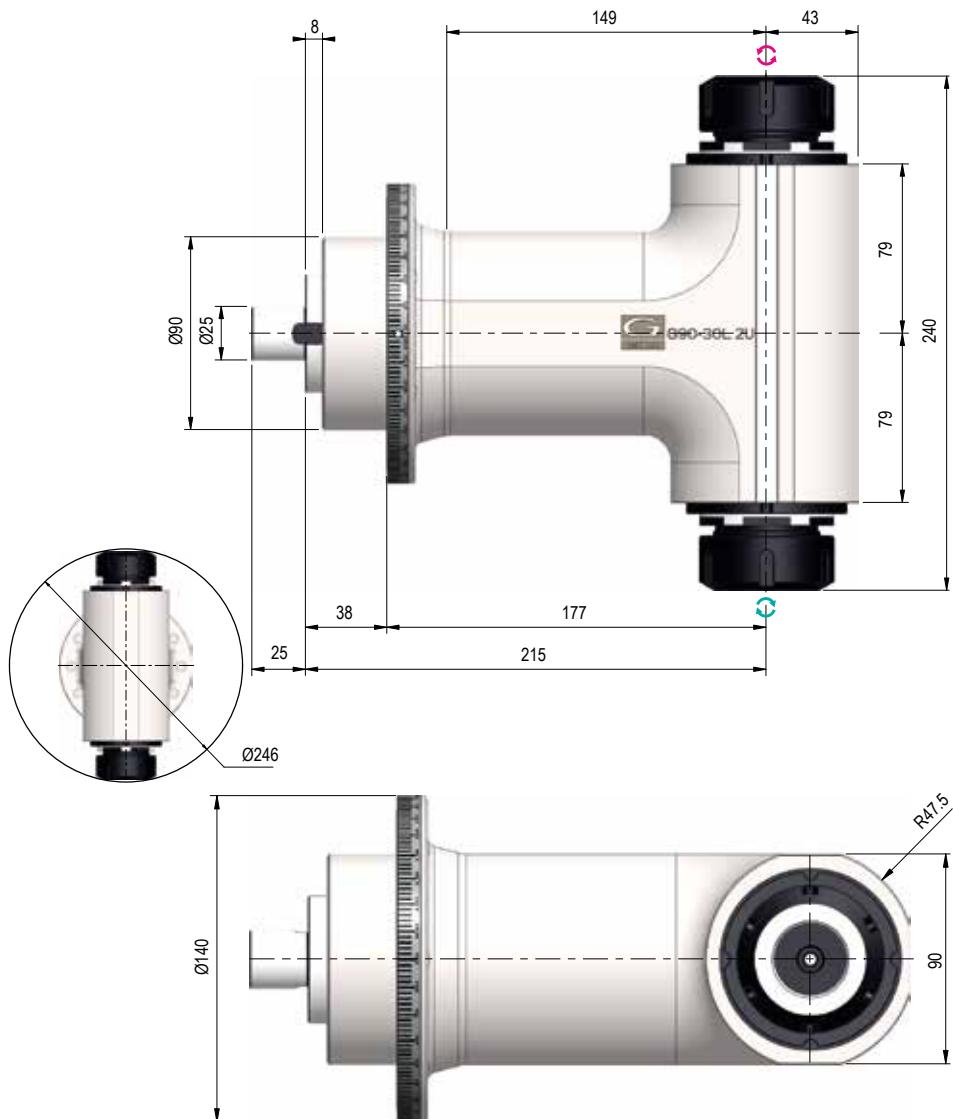
optional

ALTA VELOCITÀ  
HIGH SPEED

6.000 Rpm

optional





## G90-30L 2U

TYPE 3

9.G90.30L2U1

Code:

Price:



## Dati tecnici - Technical data

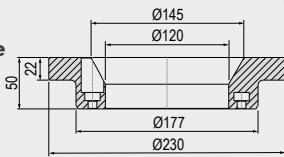
	Ratio 1:1		Kg 23
	Rpm 4.000		Ø 30
	N 1.750		M 20
	Nm 75		ER-40 Ø3/30



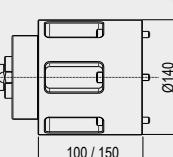
SENSO DI ROTAZIONE UGUALE AL MANDRINO - DIRECTION OF ROTATION SAME AS MACHINE SPINDLE  
 SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

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	63	80
Prezzo EXTRA Price €	std	std	std	std	opt.	opt.

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 3**



**Prolunga**  
Extension  
**TIPO - TYPE 2**

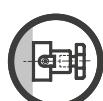


**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

Cassa in legno - Flangia universale - Ghiera ER -  
Cone - 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



USCITA  
OUTPUT  
Portafresa  
Toolholder Ø27 (X2)

optional

USCITA  
OUTPUT

HSK 40(X2)

optional



USCITA  
OUTPUT  
Weldon Max Ø25 (X2)

optional

USCITA  
OUTPUTALTA VELOCITÀ  
HIGH SPEED

6.000 Rpm

optional





**Classic Line - MTC Series**  
ANGLE HEADS

1

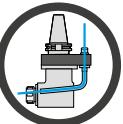
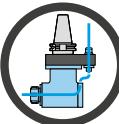
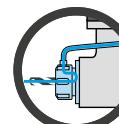
# ACCESSORI ATC & MTC

## ATC & MTC ACCESSORIES

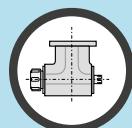
1



## OPZIONE REFRIGERANTE INTERNO INTERNAL COOLANT OPTION

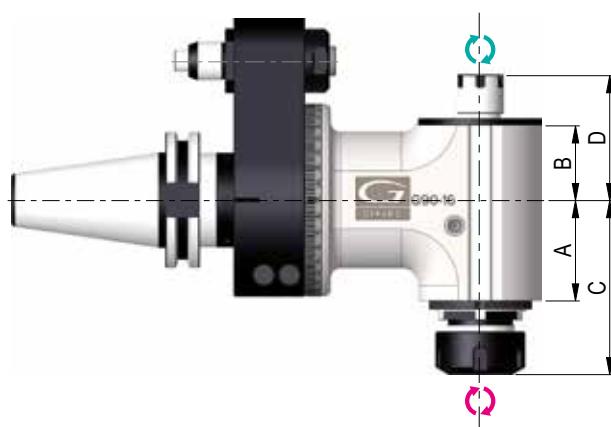
	<b>Opzione B B option</b>	<b>Opzione RI RI option</b>	<b>Opzione Re-Cool Re-Cool option</b>
 <b>10bar</b>	 <b>10bar</b>	 <b>UP TO 70bar</b>	 <b>10bar</b>
<b>Perno » Utensile</b> Positioning Pin » Tool	<b>Perno » Distributore » Utensile</b> Positioning Pin » Rotating Distributor » Tool	<b>Cono » Distributore » Utensile</b> Shank » Rotating Distributor » Tool	<b>Perno » Ghiera ReCool » Utensile</b> Positioning Pin » ReCool Nut » Tool
<b>Passaggio refrigerante esterno all'utensile 10bar</b> External coolant 10bar through the tool	<b>Passaggio refrigerante interno all'utensile 10bar dal perno attraverso distributore rotante</b> Internal coolant 10bar through the tool from positioning pin and through rotating distributor	<b>Passaggio refrigerante interno all'utensile da 30 a 70 bar dal cono e attraverso il distributore rotante</b> Internal coolant through the tool from 30 to 70 bar from the shank and through the rotating distributor	<b>Passaggio refrigerante interno l'utensile per mezzo della ghiera ReCool.</b> Internal coolant through the tool from the special nut ReCool
<b>ROTAZIONE A SECCO - DRY RUNNING POSSIBILE - POSSIBLE</b>	<b>ROTAZIONE A SECCO - DRY RUNNING POSSIBILE - POSSIBLE</b>	<b>ROTAZIONE A SECCO - DRY RUNNING NON POSSIBILE - NOT POSSIBLE</b>	<b>PAG. 1.87 - PAG. 1.87</b>

## OPZIONE DOPPIA USCITA DOUBLE OUTPUT OPTION



**Disponibile per i modelli - Available for following types:**

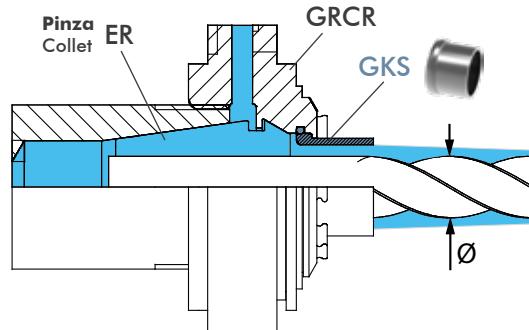
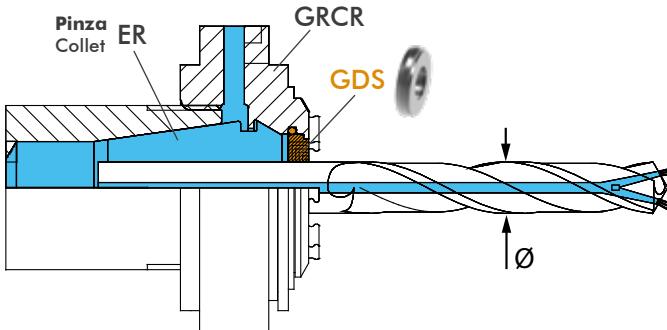
<b>MODELLO</b> <b>MODEL</b>	<b>USCITA</b> <b>OUTPUT</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
GL90-7	ER-11				
G90-5 / G90-7 / G90-7L	ER-8 MINI	20	20	38	34
GL90-10	ER-16				
G90-10 / G90-10L	ER-11 MINI	37	28	52	44,5
GL90-16	ER-25				
G90-16 / G90-16L	ER-16 MINI	47	35	81,5	58,5
G90-20 / G90-20L	ER-32 ER-20 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	ER16	GRCR16	
GL90-10 /		9.GR.CR16	
GMU-13	ER20	GRCR20	
		9.GR.CR20	
G90-16 / 16L	ER25	GRCR25	
GL90-16 / GMU-16		9.GR.CR25	
G90-20 / 20L	ER32	GRCR32	
GMU-20		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 ext. 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.  
Maggiori pressioni del refrigerante su richiesta.

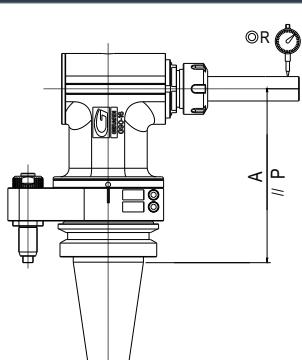
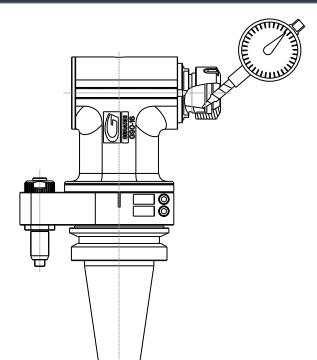
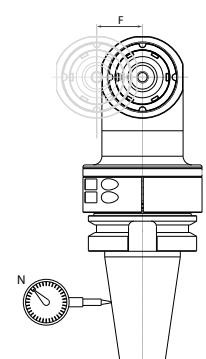
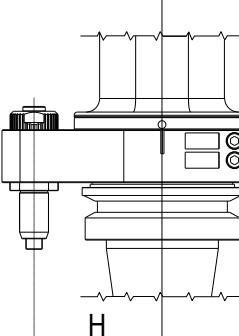
The supplied hose and fittings are designed and tested for maximum coolant pressure of 58 bar / 840 PSI.  
Higher coolant pressure on request.

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

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

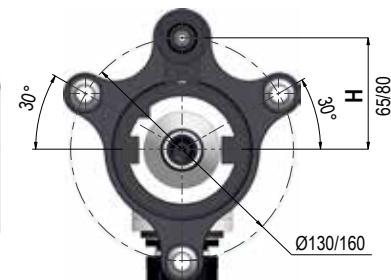
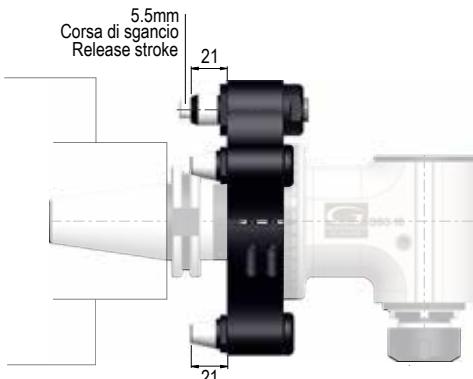
TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error	TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error
<p><b>Quota e parallelismo da filo cono ad asse principale.</b> Oscillazione asse utensile.</p> <p>Height and parallelism from gauge line to main axis. Runout cutter axis.</p>		<p><b>Ammesso</b> Allowed <math>A = \pm 0,03</math> <math>R = \pm 0,025</math> <math>P = \pm 0,015/100</math></p> <p><b>Rilevato</b> Checked</p> <p><math>A = +0,010</math></p> <p><math>R = 0,015</math></p> <p><math>P = 0,012/100</math></p>	<p><b>Oscillazione mandrino porta utensile.</b> Runout in cutter spindle.</p>		<p><b>Ammesso</b> Allowed 0,010</p> <p><b>Rilevato</b> Checked</p> <p><math>R = 0,008</math></p>
<p><b>Concentricità tra cono e asse principale.</b> Disassamento tra gli assi principali.</p> <p>Concentricity between shank and main axis. offset between main axis</p>		<p><b>Ammesso</b> Allowed <math>F = \pm 0,02</math> <math>N = \pm 0,02</math></p> <p><b>Rilevato</b> Checked</p> <p><math>F = 0,010</math></p> <p><math>N = 0,016</math></p>	<p><b>Interasse cono-perno di posizionamento.</b> Pitch shank-positioning pin.</p>		<p><b>Ammesso</b> Allowed 0,010</p> <p><b>Rilevato</b> Checked</p> <p><math>H = -0,010</math></p>

### RODAGGIO TESTA - RUN-IN

RPM in entrata RPM	Durata Time	Temperatura Ambiente Room Temperature	Temperatura 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 MULTIPONT MULTIPOINT ANTIROTATION SYSTEM



## TYPE 1

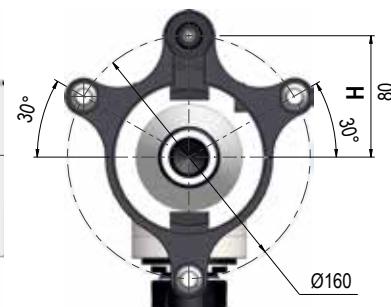
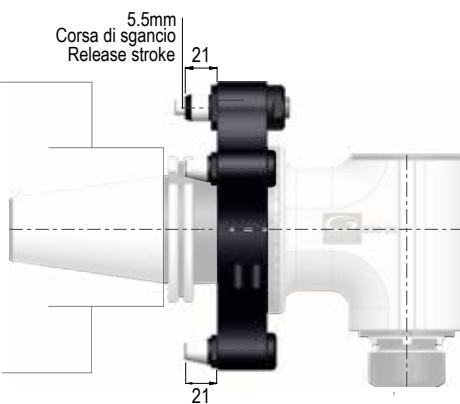
Code 9.G90.16T00/...\*

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

**Solo flangia**  
Only flange\*\*

**A richiesta**  
*On request*

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



## TYPE 2

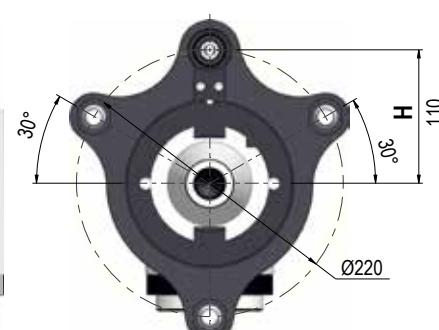
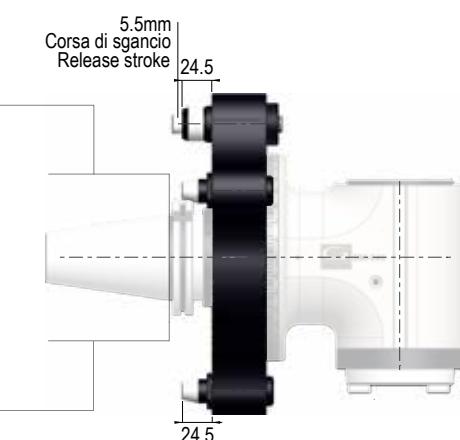
Code 9.G90.20T00/...\*

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

**Solo flangia**  
Only flange\*\*

**A richiesta**  
*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

**Solo flangia**  
Only flange\*\*

**A richiesta**  
*On request*

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



Il sistema antirotante MULTIPONT 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
- Poder eseguire lavorazioni pesanti
- Annullare ogni tipo di vibrazione
- Applicabile ad ogni tipo di mandrino macchina

The anti-rotation MULTIPONT 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 CORRETO 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

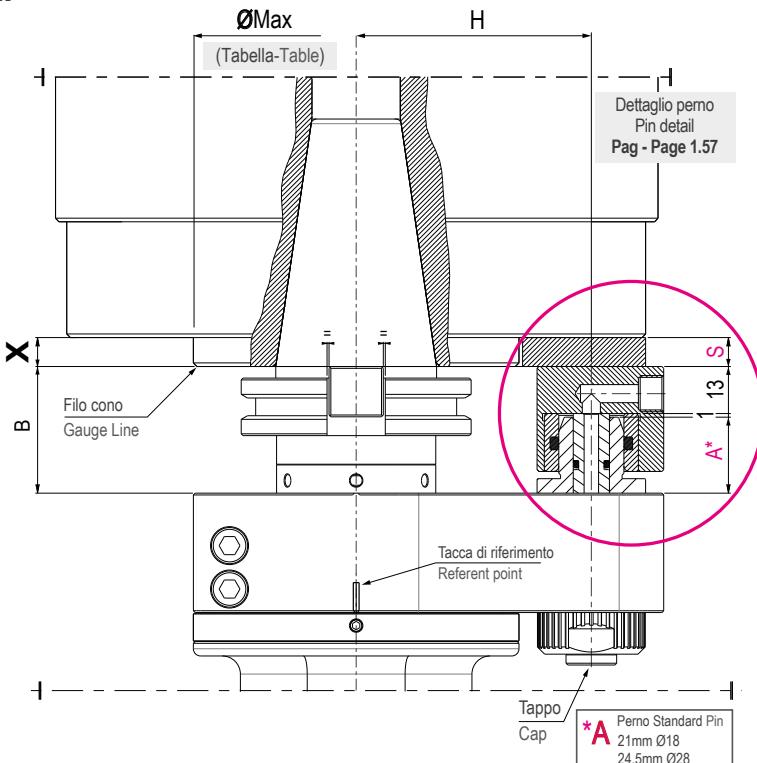
- For Gerardi items, please indicate the type of Angle Head, the H dimension, the pin diameter and height.
- For non-Gerardi items, please send us the stop-block and the machine spindle drawings in order to design the right pin. If possible, we suggest you to use Gerardi standard stop block, taking off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

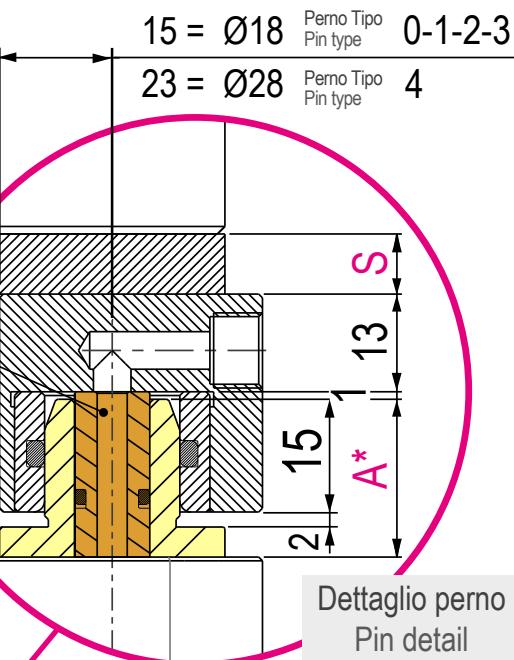
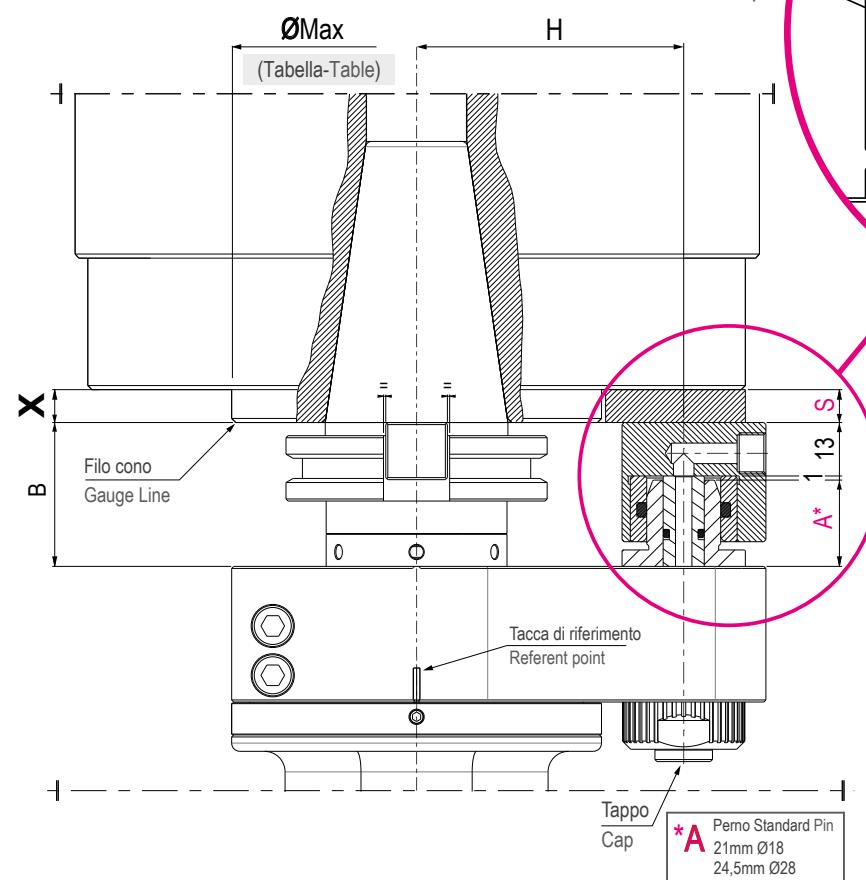
Example of calculation for spacer thickness

## 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	$\varnothing$ MAX
$\varnothing 18$	65	99
	80	129
	110	189
$\varnothing 28$	110	172



### ATTENZIONE - ATTENTION

Il distanziatore 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.

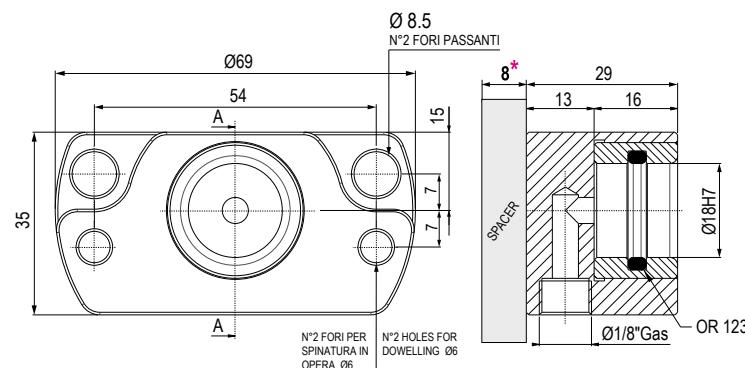
## STOP-BLOCK Standard



**Ø18**

Con bussola temprata - with hardened bushing

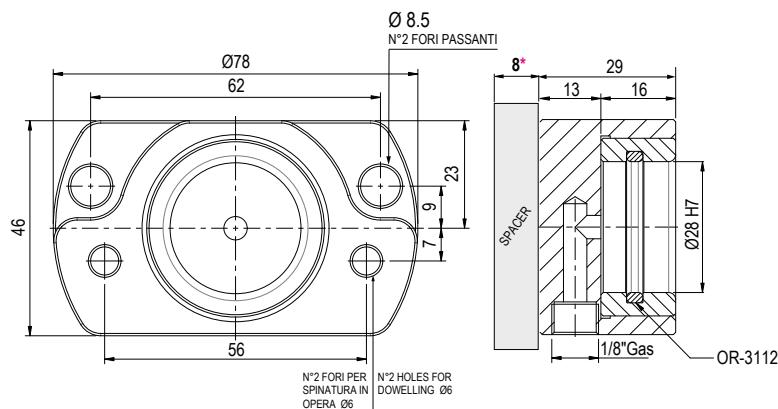
<b>STOP BLOCK</b> Code	
9.INDEX.18	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2	



**Ø28**

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.INDEX.28	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2	



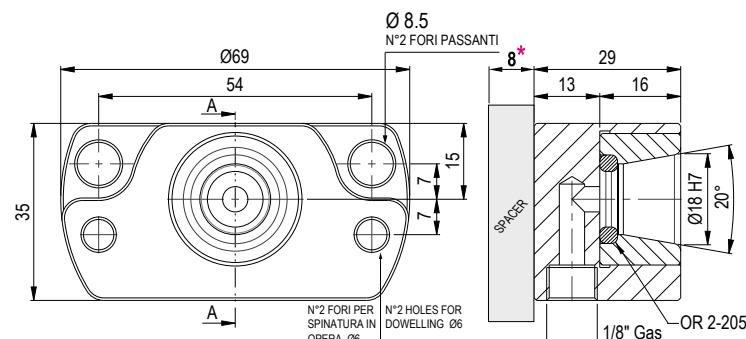
## STOP-BLOCK Conico - Conical



**Ø18**

Con bussola temprata - with hardened bushing

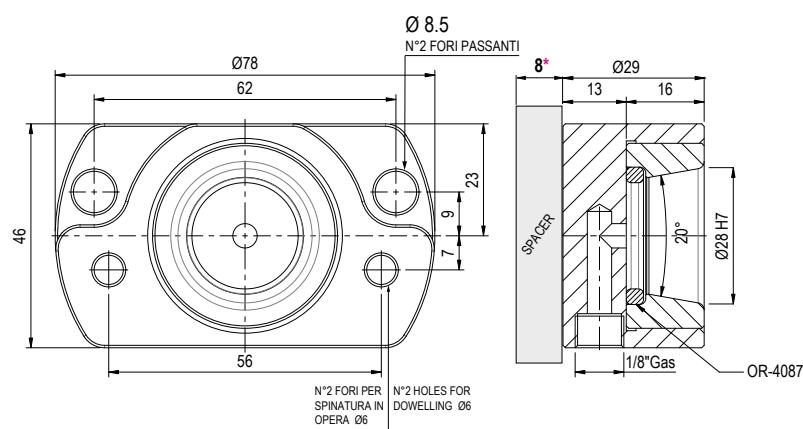
<b>STOP BLOCK</b> Code	
9.INDEX.18C	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2C	



**Ø28**

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.INDEX.28C	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> 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

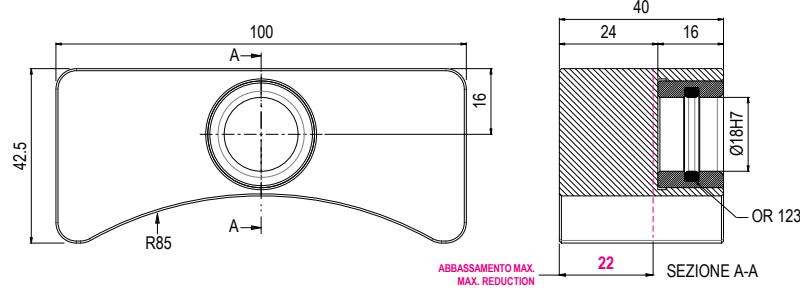
## STOP-BLOCK Lavorabile\*\* - Machineable\*\*



**Ø18**

Con bussola temprata - with hardened bushing

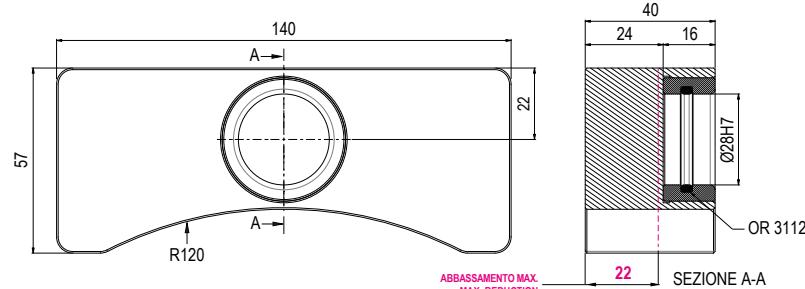
<b>STOP BLOCK</b> Code	
9.G18.INDEX	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2	



**Ø28**

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.G28.INDEX	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2	



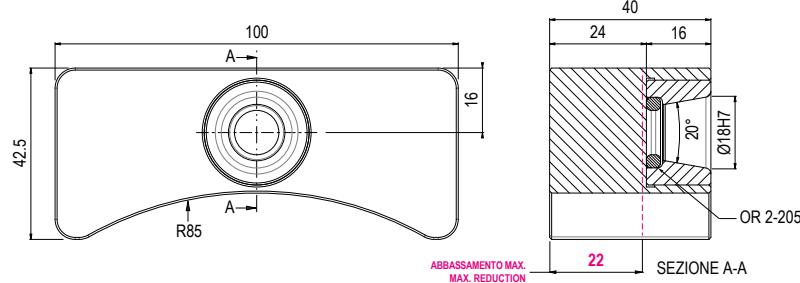
## STOP-BLOCK Lavorabile conico\*\* - Conic machineable\*\*



**Ø18**

Con bussola temprata - with hardened bushing

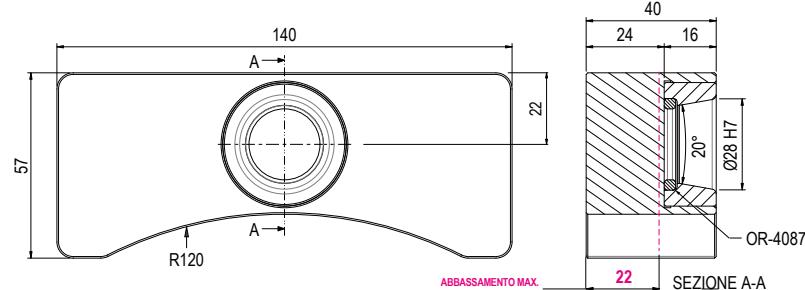
<b>STOP BLOCK</b> Code	
9.G18.INDEXC	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2C	



**Ø28**

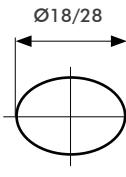
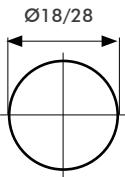
Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.G28.INDEXC	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2C	



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

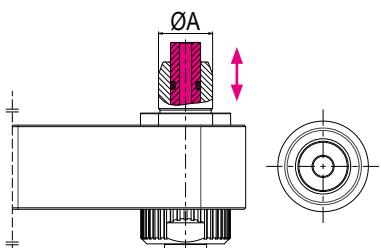
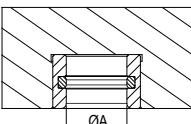
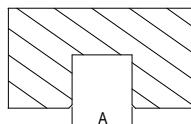
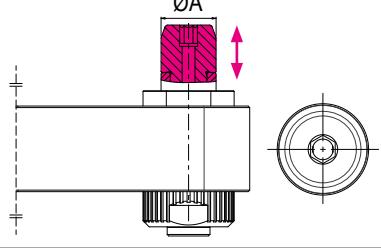
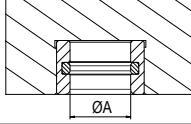
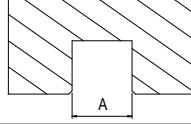
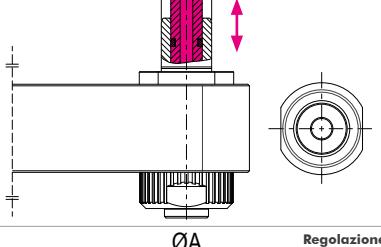
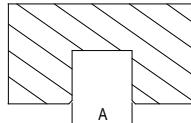
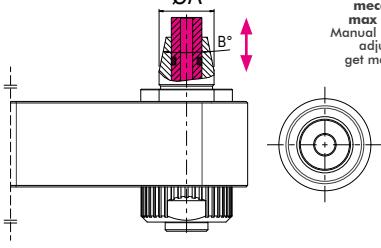
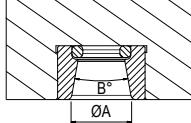
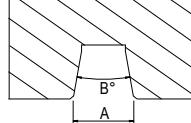
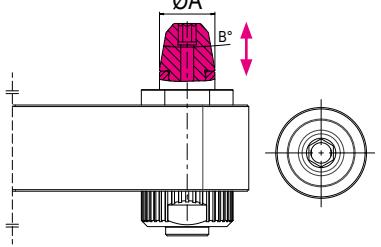
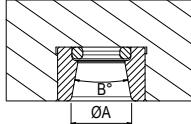
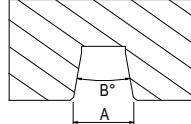
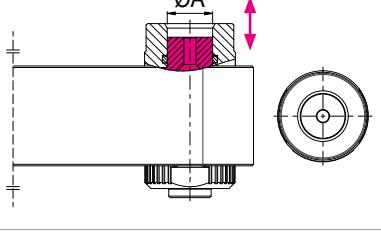
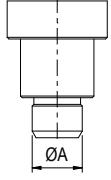
# GRUPPO ANTIROTANTE ANTI-ROTATION GROUP



TESTA ANGOLARE ANGLE HEADS		GRUPPO ANTIROTANTE ANTI-ROTATION GROUP		FLANGIA INTEGRALE INTEGRAL FLANGE		STANDARD 2 AXIS		ON REQUEST 1 AXIS		GRUPPO PERNO PIN GROUP	
MODELLO Model	TIPO Type	Code		Code	$\emptyset$	H				P	L
GL90-7	0	9.GMU.13050C/65		9.GMU.13030/i65	$\emptyset 73$	65		9.GMU.130	Ø18	21	
GL90-10		9.GMU.13050C/80									
GL90-16		9.GMU.13050C/110									
GTU-10		9.GMU.13050/i65									
GMU 13 / 13L		9.GMU.13050/i80									
		9.GMU.13050/110									
G90-5	1	9.G90.16050/i65		9.G90.16030/i65	$\emptyset 90$	65		9.G90.16071C	Ø18	21	
G90-7 / 7L		9.G90.16050/80									
G90-7 / 7L2U		9.G90.16050/110									
G90-10 / 10L		9.G90.16050/110									
G90-10 / 10L2U		9.G90.16050/110									
G90-16 / 16L		9.G90.16050/110									
GMU-16	2	9.G90.16050/110		9.G90.16030/110	$\emptyset 110$	80		9.G90.16071C	Ø18	21	
GR90-5		9.G90.16050/110									
GR90-10		9.G90.16050/110									
GR90-16	3	9.G90.20050/110		9.G90.20030/110	$\emptyset 140$	110		9.G90.16071C	Ø28	35	
G90-20 / 20L		9.G90.20050/110									
G90-20 / 20L2U		9.G90.20050/110									
GMU 20	4	9.G90.S4050/110		9.G90.S4023/110	$\emptyset 170$	110		9.G90.16072C	Ø28	24,5	
G90-S40		9.G90.S4050/110									
G90-S40L		9.G90.S4050/110									
GR90-S40		9.G90.S4050/110									

# GRUPPO PERNO SPECIALE

## SPECIAL PIN GROUP

FORMA Shape	TIPI DI PERNI Pin Types	TIPI DI STOP-BLOCK Stop-block Types	
Cilindrico standard Cylindrical standard <b>A</b>		<b>Standard con bussola cilindrica</b> Standard with cylindric bushing 	<b>Prismatico</b> Prismatic 
Cilindrico flottante Cylindrical floating <b>B</b>		<b>Standard con bussola cilindrica</b> Standard with cylindric bushing 	<b>Prismatico</b> Prismatic 
Prismatico Prismatic <b>C</b>			<b>Prismatico</b> Prismatic 
Conico regolabile Adjustable conic <b>D</b>		<b>Bussola conica</b> Conic bushing 	<b>Prismatico conico</b> Conic prismatic 
Conico flottante Floating conical <b>E</b>		<b>Bussola conica</b> Conic bushing 	<b>Prismatico conico</b> Conic prismatic 
Cilindrico femmina Female cylindric <b>F</b>		<b>Cilindrico maschio</b> 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

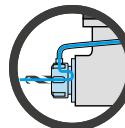
**Passaggio refrigerante interno all' utensile.**  
**Dal mandrino macchina e attraverso il distributore rotante**  
Internal coolant through the tool from the machine spindle and through  
rotating distributor

**ROTAZIONE A SECCO - DRY RUNNING**

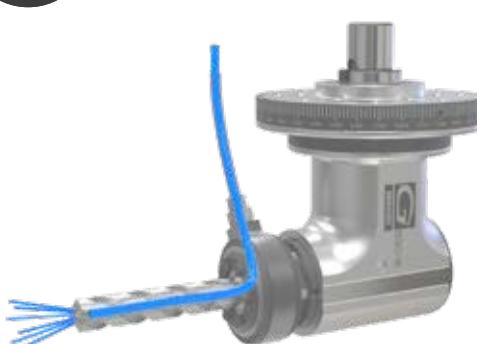
**10 BAR POSSIBILE - POSSIBLE**

**30/40 BAR NON POSSIBILE - NOT POSSIBLE**

**Opzione Re-Cool**  
Re-Cool option



**10bar**



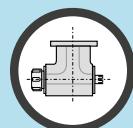
**Perno » Ghiera ReCool » Utensile**  
Positioning Pin » ReCool Nut » Tool

**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**

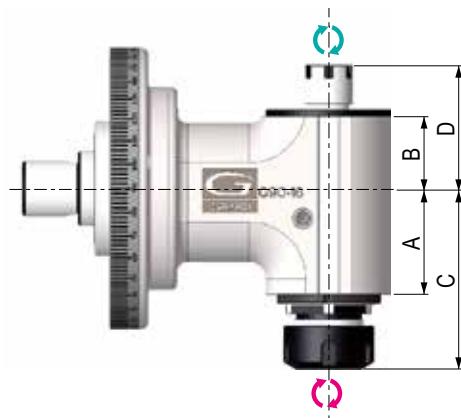
**Passaggio refrigerante interno tramite cono » Distributore » Utensile **SU RICHIESTA****  
Internal coolant through shank » rotating distributor » tool **ON REQUEST**

## OPZIONE DOPPIA USCITA serie MTC DOUBLE OUTPUT OPTION MTC series



**Disponibile per i modelli - Available for following types:**

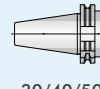
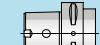
MODELLO MODEL	USCITA OUTPUT	A	B	C	D
G90-5 / G90-7 / G90-7L	ER-11 ER-8 MINI	20	20	38	34
G90-10 / G90-10L	ER-16 ER-11 MINI	37	28	52	44,5
G90-16 / G90-16L	ER-25 ER-16 MINI	47	35	81,5	58,5
G90-20 / G90-20L	ER-32 ER-20 MINI	66	46	103,5	72,5
G90-30 / G90-30L	ER-40 ER-25 MINI	79	53	120	82



**Teste angolari MTC doppia uscita**  
Double output MTC angle heads

# CONI / FLANGE / PROLUNGHE SHANKS / FLANGES / EXTENSIONS

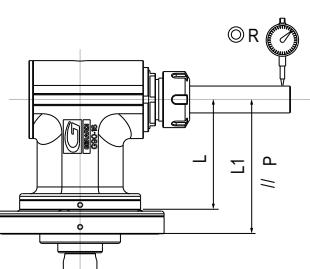
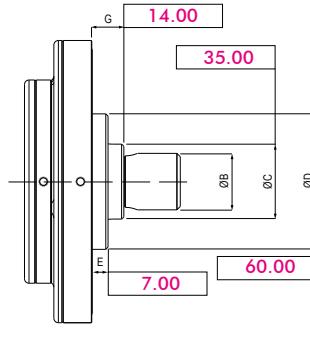
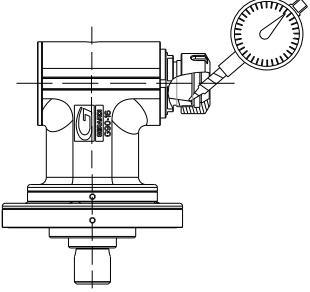
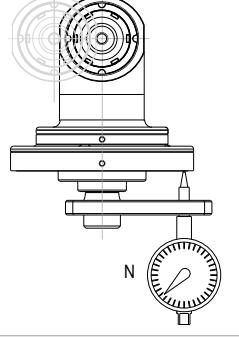


TESTA ANGOLARE ANGLE HEADS		FLANGIA UNIVERSALE UNIVERSAL FLANGE		PROLUNGA EXTENSION		CONO MODULARE MODULAR SHANK		
MODELLO MODEL	TIPO TYPE	Code		H	Code		Code	MODELLO MODEL
G90-5 G90-7 / 7L G90-10 / 10L G90-16 / 16L GMU-16 G90-16 / 16L 2U	1	9.UF.00001 NO FLANGE		50 100 200	9.GEX.10050 9.GEX.10100 9.GEX.10200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

Senza cono -100 €  
No shank -100 €

# ESEMPIO SCHEDA DI COLLAUDO INSPECTION SHEET EXAMPLE

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

TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error	TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error
<b>Quota e parallelismo da filo cono ad asse principale. Oscillazione asse utensile.</b>  Height and parallelism from gauge line to main axis. Runout cutter axis.		<b>Ammesso</b> Allowed A = ±0,03 R = ±0,025 P = ±0,015/100  <b>Rilevato</b> Checked  L = +0,020 L1 = +0,010 R = 0,025 P = 0,012/100	<b>Verifica delle quote per l'attacco del cono e della flangia.</b>  Main input shaft dimension checked.		<b>Ammesso</b> Allowed E/G = 0,1/-0,5 C/D = +0/-0,03  <b>Rilevato</b> Checked  B = 25h7 ok E = -0,100 G = -0,150 C = -0,020 D = -0,030
<b>Oscillazione mandrino porta utensile.</b>  Runout in cutter spindle.		<b>Ammesso</b> Allowed 0,010  <b>Rilevato</b> Checked  0,008	<b>Perpendicolarità e disassamento tra gli assi principali.</b>  Perpendicularity and offset between main axes.		<b>Ammesso</b> Allowed F = ± 0,020 N = 0,010/100  <b>Rilevato</b> Checked  F = 0,015 N = 0,010/100

## RODAGGIO TESTA - RUN-IN

RPM in entrata RPM	Durata Time	Temperatura Ambiente Room Temperature	Temperatura 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				

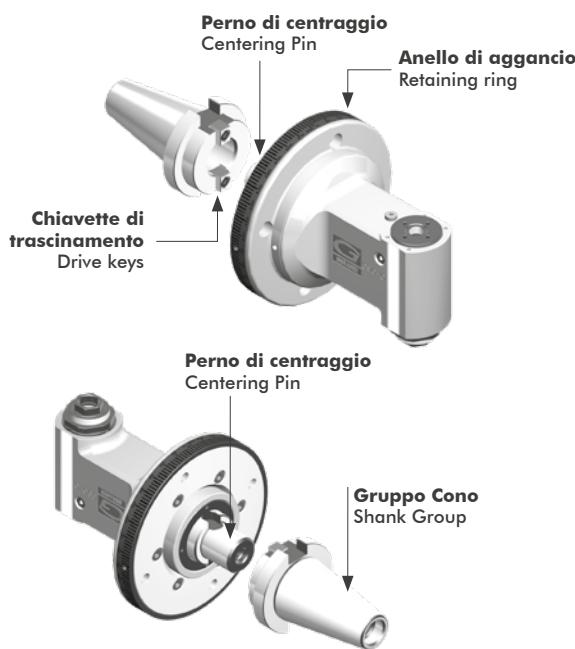
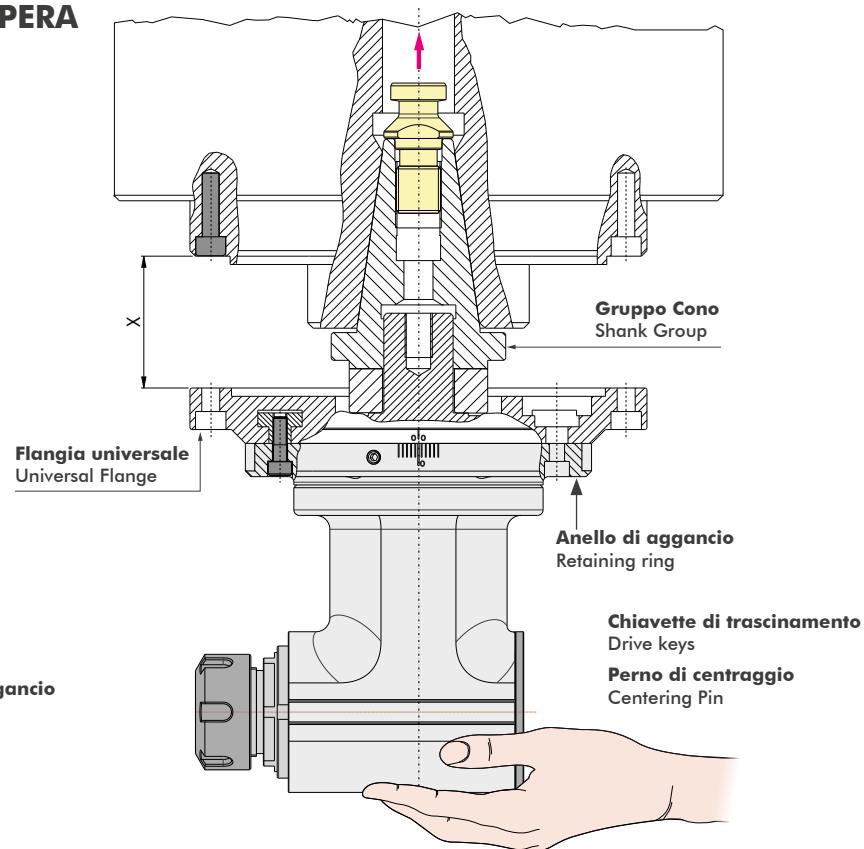
Revisioni - Revisions	Timbro - Stamp	Data - Date
		Firma - Signature

# ESEMPIO di MONTAGGIO MOUNTING EXAMPLE

## DISTANZIALE REALIZZATO IN OPERA SPACER TO BE MADE

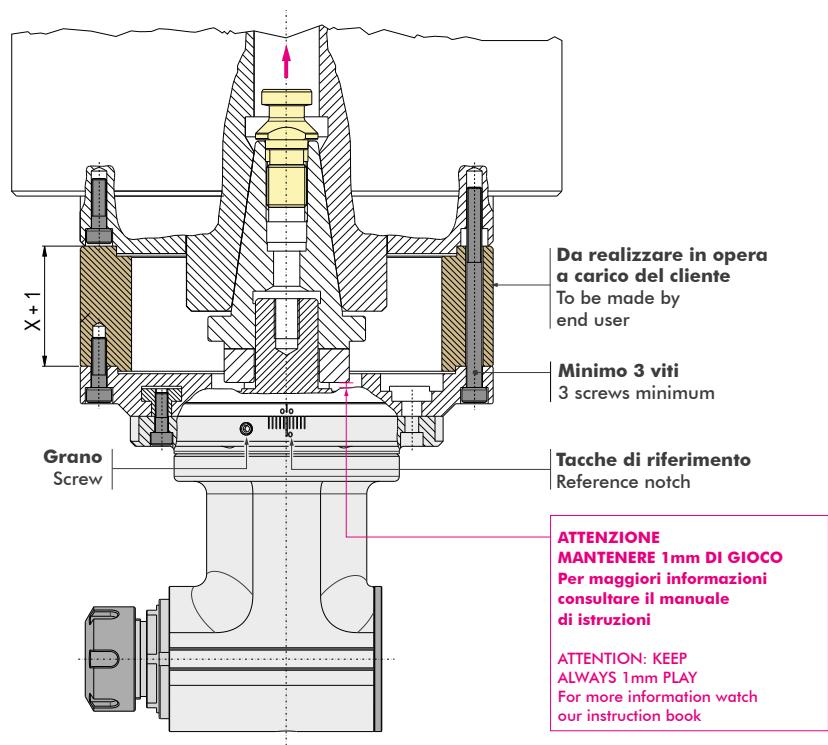
### FASE 1 - STEP 1

- 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  $X+1\text{mm}$
- 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  $X + 1\text{mm}$  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/...	



PINZA ET1 (compensate) COLLET ET1 (compensation)	Code	
-	-	
-	-	
-	-	
ET / 16 (M1 - M6)	9.ET.16000/...	
-	-	
ET / 20 (M2 - M8)	9.ET.20000/...	
-	-	
ET / 25 (M2 - M12)	9.ET.25000/...	
-	-	
ET / 32 (M3,5 - M16)	9.ET.32000/...	
-	-	
ET / 40 (M6 - M16)	9.ET.40000/...	
-	-	

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	-	-	-	



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.160ES	24 (30)	
GL90-10B G90-10B / 10LB G90-10RI / 10LRI GR90-10RI	ER16 ES	9.ER.160ES	24 (30)	
GMU-13 / 13L	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	
-	-	
-	-	



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



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 2.0 MODULAR QUICK CHANGE ADAPTORS 2.0



## 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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

## Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !**  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI**  
MONEY SAVER

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE**  
VERSATILITY & PERFORMANCE IMPROVED

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ**  
EXTREME COMPATIBILITY

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.



## Evolution Line

# TESTE ANGOLARI - ANGLE HEADS

2



MADE IN ITALY



# INDICE - INDEX

2

| 2.12 - 2.17  
*series*  
**LIGHT**

**NEW** | 2.18 - 2.23  
*series*  
**SLIM**

## ATC - AUTOMATIC TOOL CHANGE

FL90-7	FS90-3	FS90-6L
FL90-13 / 13L	FS90-3L	
FL90-16 / 16L	FS90-4	
<b>FL90-16 2U</b>	FS90-4L	
<b>FLU-7</b>	FS90-6	

| 2.49 - 2.51

*series*  
**FM U**

| 2.52 - 2.59

*series*  
**DOUB2E**



## ATC - AUTOMATIC TOOL CHANGE

FMU-10	F90-7 2U	F90-16L 2U
FMU-16	F90-7L 2U	F90-20 2U
FMU-20	F90-10 2U	F90-20L 2U
	F90-10L 2U	F90-30 2U
	F90-16 2U	F90-30L 2U

| 2.72 - 2.77

## ACCESSORIES

### ATC - AUTOMATIC TOOL CHANGE

OPZIONE REFRIGERANTE INTERNO MODULAR QUICK CHANGE ADAPTORS	STOP-BLOCK STOP-BLOCK
GHIERE RECOOL RECOOL NUTS	GRUPPO ANTIROTANTE ANTI-ROTATION GROUP
ESEMPIO SCHEDA DI COLLAUDO INSPECTION SHEET EXAMPLE	GRUPPO PERO PIN GROUP
SISTEMA ANTIROTANTE MULTIPONT MULTIPOINT ANTIROTATION SYSTEM	
ESEMPIO DI MONTAGGIO MOUNTING EXAMPLE	

**2.24 - 2.36**

*series*  
**STD 90°**

**2.37 - 2.44**

*series*  
**COOLANT**

**2.45 - 2.48**

*series*  
**OFFSET**

## **ATC - AUTOMATIC TOOL CHANGE**

F90-7 / 7L	F90-16 / 16L	F90-7 10Bar	F90-20 10Bar	FR90-10 70BAR
F90-10 / 10L	F90-20 / 20L	F90-7L 10Bar	F90-S40 70Bar	<b>FR90-13 70BAR</b>
<b>F90-13 / 13L</b>	F90-S40	F90-10 10Bar		FR90-16 70BAR
F90-16S		F90-16S 10Bar		FR90-20 70BAR
F90-20S		F90-16 10Bar		

**2.62 - 2.66**

*series*  
**STD 90°**

*series*  
**XL**

## **MTC - MANUAL TOOL CHANGE**

F90-16S	F90-S40
F90-16L	
F90-20	
F90-20L	

**2.78 - 2.81**

## **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

**2.82 - 2.84**

**PINZE / GHIERE / CHIAVI**  
COLLETS / NUTS / WRENCHES

<b>OPZIONE REFRIGERANTE INTERNO</b> INTERNAL COOLANT OPTION	<b>PINZE / GHIERE / CHIAVI</b> COLLETS / NUTS / WRENCHES
<b>CONI / FLANGE / PROLUNGHE</b> SHANKS / FLANGES / EXTENSIONS	
<b>ESEMPIO SCHEDA DI COLLAUDO</b> INSPECTION SHEET EXAMPLE	
<b>ESEMPIO DI MONTAGGIO</b> MOUNTING EXAMPLE	

### **ATC & MTC**

# Linea Evolution

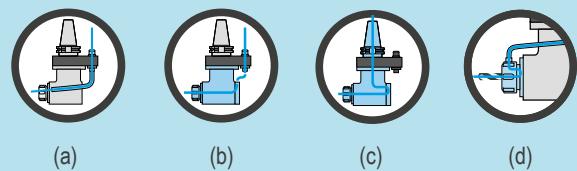
## Teste Angolari Modulari

Le teste angolari Gerardi della nuovissima Linea Evolution nascono da solide basi tecniche e dall'esperienza maturata in 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. 91 modelli di teste angolari standard, ideati, realizzati e distribuiti in oltre 50 paesi nel mondo dalla Gerardi S.p.A., correddati da una gamma di opzioni che ne completano le potenzialità applicative e prestazionali.



## Caratteristiche tecniche principali:

- 1- Corpo in acciaio ad alta resistenza trattato per resistere alla corrosione e per garantire dilatazioni minime.
- 2- Modularità: albero con cono intercambiabile (Doppio contatto cono-piano) e quindi possibilità di utilizzare la testa su più centri di lavoro anche con mandrini diversi. E' infatti possibile sostituire il gruppo antirotante ed il cono in entrata senza compromettere rigidità e precisione.
- 3- Ciascun albero di trasmissione supportato da coppie di cuscinetti a contatto obliqui di precisione precaricati in classe di precisione ABEC 9 e lubrificati con grasso a vita.
- 4- Coppia conica di ingranaggi spirodiali Gleason con evolvente rettificato ottimizzata per una maggior coppia disponibile
- 5- Oltre 40 modelli di teste disponibili.
- 6- Nuovissimi modelli di teste con Pesi ed Ingombri ridotti serie Slim in grado di entrare in diametri di 35mm.
- 7- Adduzione refrigerante tramite perno e pressurizzazione interna compresa (a)
- 8- Opzione adduzione refrigerante attraverso l' utensile:
- 10- bar tramite distributore rotante (b)
- 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- Design ottimizzato per una migliore dispersione del calore e tempi più lunghi di rotazione alle alte velocità.
- 10- Compatibilità con le teste da sempre installate (stop block identici).
- 11- 100% Made in Italy, le teste angolari Gerardi Evolution 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 2.11 a 2.59



Le teste ATC (Automatic Tool Change) sono ideali per le macchine di produzione a controllo numerico con cambio utensili automatico. Sono trasportabili automaticamente dal magazzino utensili al mandrino macchina e viceversa. L'anello di orientamento e la flangia di indexaggio che supporta il perno di fermo, sono entrambi posizionabili su 360° per ottimizzare gli orientamenti angolari. Sulle teste modello FMU, il supporto del mandrino portautensile ha possibilità di inclinarsi di ±90°. Se la testa non è in posizione di lavoro, un sistema di aggancio impedisce la rotazione del cono rispetto al corpo testa.

## Serie MTC

da pag 2.61 a 2.66



Linea di teste per le macchine non dotate di cambio utensili automatico. Le teste MTC (Manual Tool Change) vanno montate manualmente e fissate al mandrino tramite flangiatura. Sulle teste modello FMU, il supporto del mandrino portautensile ha la possibilità di inclinarsi e di posizionarsi di ±90°.



# Evolution Line

## Modular Angle Heads

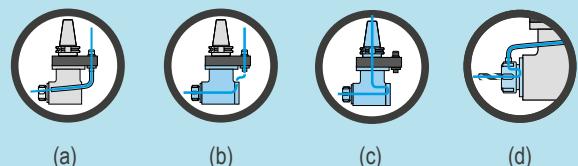
The new Evolution line of Gerardi angle heads has been designed from a technical base derived from 40 years experience of solving thousands of production problems, finding optimum solutions and always guaranteeing the highest product quality. 91 standard angle head types are now offered, designed, built and distributed in more than 50 countries the world over by Gerardi S.p.A., and available with a range of options to complete their application and performance potentials.

INTERCHANGEABLE  
Shank



## Main Technical features:

- 1- Minimum thermal expansion and high corrosion resistant treated steel body
  - 2- Modularity: main shaft with interchangeable Drive Taper (Double contact) allows an EVOLUTION angle head to be used on other machining centres with different spindle types and sizes. It is also possible to exchange the anti-rotation (arrester) sub-assembly and the input drive taper with no effect on rigidity or accuracy.
  - 3- All spindles are supported by pairs of preloaded angular contact ball bearings with ABEC 9 precision and long life lubrication.
  - 4- Gleason computer based calculations for the Gleason cut spiral bevel drive gears with ground teeth in order to guarantee a bigger torque
  - 5- More than 0 angle head types available.
  - 6- Among the new range of angle head types the slim series have reduced weights and overall dimensions. The Slim series are even able to enter a minimum Ø 35mm.
  - 7- Up to 10 bar coolant through the pin included in the standard heads. (Fig.a)
  - 8- Coolant feed through the tool options:
  - 10- bar through rotary distributor (Fig.b)
  - 70- bar through machine spindle, dry running allowed (Fig.c)
  - Special ReCool nuts to get the internal coolant through the tool even on angle heads that aren't fitted for this option. (Fig.d)
  - 9-Designed for superior heat dissipation and for sustained periods of high speed operations
  - 10- 100% compatibility with heads installed during the last 40 years (same anti-rotation/arrester pin and stop block dimensions)
  - 11- GERARDI Evolution 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 present catalogue.



## ATC Series

from pag 2.11 to 2.59



ATC angle heads are ideal for CNC machines with automatic tool change and can be automatically transferred from the tool store to the machine spindle and vice-versa.

The orientation ring and arrester arm support ring are both 360° adjustable to allow the best angular orientation.

On FMU heads, the cutter spindle housing can be adjusted at ±90°.

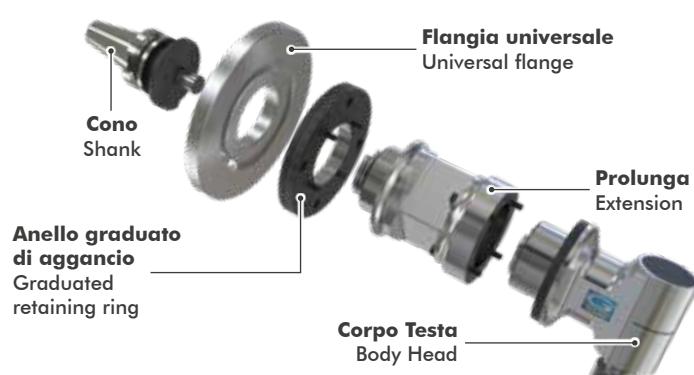
If an ATC angle head is not placed into the machine spindle, a locking system prevents shank rotation relative to the head body.

## MTC Series

from pag 2.61 to 2.66



This is a range of heads is for conventional machines without automatic tool change. MTC angle heads (Manual Toll Change) are manually mounted on the machine headstock through a flange. On FMU heads, the cutter spindle housing can be adjusted at ±90°.



# MODULARITÁ SENZA MODULARITY WITHOUT

**UNA SOLA TESTA PER PIÙ CENTRI DI LAVORO**  
ONE HEAD FOR MANY MACHINES

**Coni intercambiabili per un utilizzo su più centri di lavoro!!**

Interchangeable drive tapers to suit any machine spindle!!



**PERNO DI POSIZIONAMENTO MODULARE  
INTERCAMBIABILE A SCELTA**  
A CHOICE OF MODULAR INTERCHANGEABLE  
ARRESTER PINS

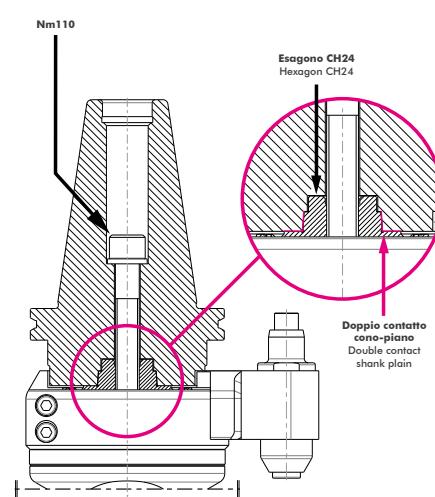
**UN INVESTIMENTO CHE  
SI RIPAGA VELOCEMENTE !!**  
QUICKEST RETURN ON YOUR  
INVESTMENT !!



F90-10/ATC ISO-40/65

HSK-63

STOP-BLOCK



**IL DOPPIO CONTATTO CONO E PIANO ASSI-  
CURANO RIGIDITÀ E PRECISIONE !!**  
THE UNIQUE GERARDI TAPER AND FACE LOCA-  
TION ENSURE RIGIDITY AND ACCURACY !!

# COMPROMESSI COMPROMISES

UN SOLO CENTRO DI LAVORO CON PIÙ TESTE

THE SAME MACHINE WITH MANY HEADS

Lavorare nelle migliori condizioni risparmiando sui costi di acquisto !!

A system to save costs !!



UNA SOLUZIONE  
APERTA PER IL LAVORO DI OGGI ,  
PENSANDO A QUELLO DI DOMANI !!  
BE READY FOR TOMORROW  
WITH THE HEAD YOU BUY TODAY !!

## Novità / News

# Linea Evolution / Evolution Line

NEW

### Teste angolari Modulari

### Modular angle heads

2



series  
**LIGHT**

Nuove teste angolari con corpo in alluminio FL90-13L e FL90-16L

New angle heads with aluminum body FL90-13L and FL90-16L



series  
**LIGHT**

Nuova testa angolare in alluminio FLU con angolazione regolabile da 0° a 180°

New angle head FLU with aluminum bodies with adjustable angle from 0° to 180°



series  
**STD 90°**

Nuovo modello di testa angolare con cono integrale F90-20L

New angle head model F90-20L with integral shank



series  
**OFFSET**

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

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

## Esempi applicativi / Applications examples

# Linea Evolution / Evolution Line

### Teste angolari modulari serie ATC (Cambio utensile automatico)

Modular angle heads ATC series (Automatic tool change)

2



*series*  
**SLIM**

Ideali per Microlavorazioni in spazi ristretti  
Ideal for Micromachining in narrow spaces



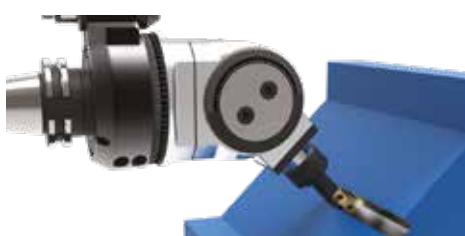
*series*  
**STD 90°**

La serie ideale per fresature, forature e maschiature a ±90°  
The ideal series for milling, drilling and tapping at ±90°



*series*  
**COOLANT**

La serie di teste angolari con passaggio refrigerante dal mandrino, uscita utensile 10bar  
With coolant input from the main spindle and output through the tool at 10bar



*series*  
**FMU**

La serie di teste angolari con angolazione regolabile da 0 a 90°.  
Spina di posizionamento rapido (Step 15°)  
Angle heads series with adjustable angle from 0 to 90°. Quick positioning pin (Step 15°)



*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



*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

# SIMBOLOGIA DATI TECNICI

## TECHNICAL DATA LOGOS

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

## INDICE OPZIONI

### OPTIONS INDEX

<b>OPZIONI</b> OPTIONS					
	<b>Alta velocità</b> High speed	<b>Spina per posizionamento rapido</b> Quick positioning pin	<b>Interasse speciale</b> Special pitch	<b>Lunghezze speciali</b> Special lenght	<b>Flangia Multipoint</b> Multipoint flange
<b>PASSAGGIO REFRIGERANTE</b> COOLANT					
	<b>Attraverso il perno</b> Through the Pin	<b>Perno » Distrib » Utensile</b> Pin » Distributor » Tool	<b>Cono » Distrib » Utensile</b> Shank » Distributor » Tool	<b>Distributore » Utensile</b> Distributor » Tool	<b>Perno » Ghiera » Utensile</b> Pin » Distrib » Tool
	<b>10bar (standard)</b>	<b>10bar</b>	<b>70bar</b>	<b>10bar</b>	<b>ReCool NUT</b>
	<b>ROTAZ. a SECCO</b> DRY RUNNING	<b>ROTAZ. a SECCO</b> DRY RUNNING	<b>ROTAZ. a SECCO</b> DRY RUNNING	<b>ROTAZ. a SECCO</b> DRY RUNNING	
<b>USCITA</b> OUTPUT					
	<b>Uscita HSK</b> HSK output	<b>Uscita ISO</b> ISO output	<b>Uscita portafresa</b> Toolholder output	<b>Uscita WELDON</b> WELDON output	<b>Uscita C.</b> C. output
					<b>Doppia uscita</b> Double output

# ATC SERIES

## AUTOMATIC TOOL CHANGE

2

### 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 bushing and gasket



### DESIGN

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

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

#### Albero cementato, temprato, rettificato

Case hardened and ground shank and shaft



#### Perno di riferimento con sbloccaggio automatico del porta utensile

Positioning pin with automatic release

#### Gruppo antirotante modulare

Modular antirotation group

#### 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 (standard)
  - Weldon
  - Portafresa
  - Speciale
- ER collet (standard)
  - Weldon
- Shell mill holder
- Special

Ciascun albero di trasmissione supportato da cuscinetti a contatto obliqui, 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.

## LIGHT SERIES ANGLE HEADS LIGHT SERIES

2

# series **L****GHT**

### Serie **LIGHT**

da pag 2.13 a 2.19

Caratteristiche tecniche principali:

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

### **LIGHT** Series

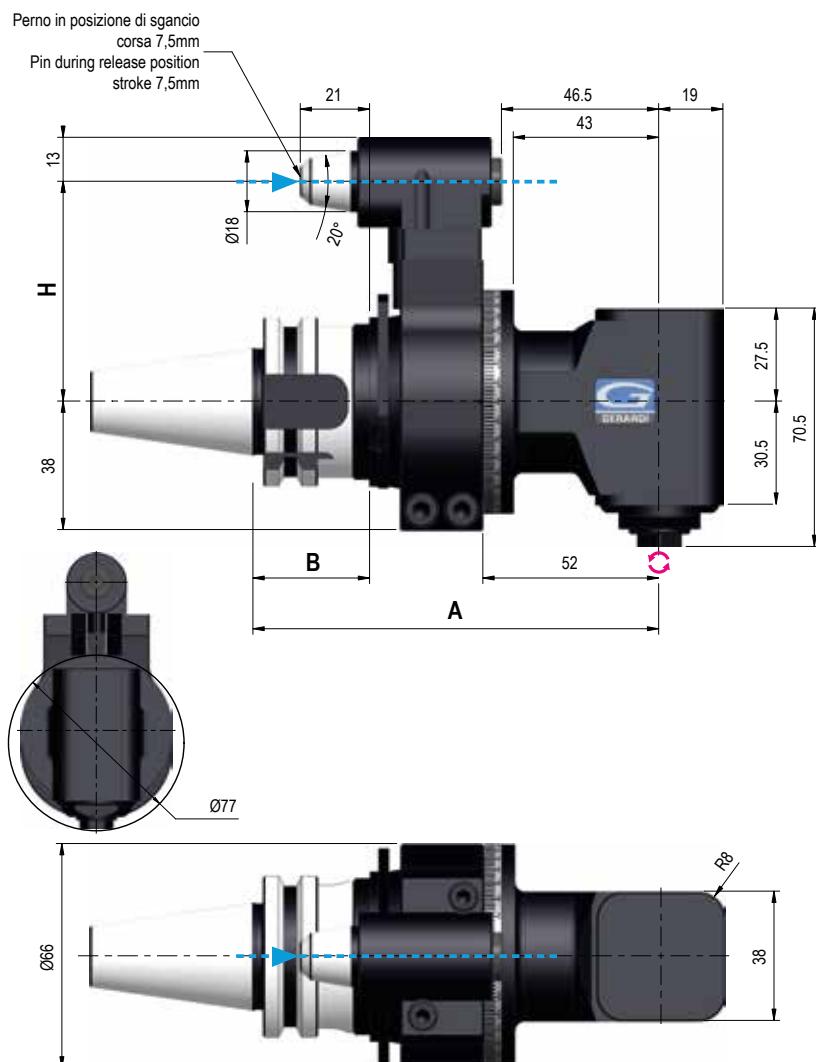
from page 2.13 to 2.20

Main technical features:

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



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


**FL90-7**

TYPE 0

Code:

9.FL9.07000

Price:


**Dati tecnici - Technical data**


Ratio

1:1


**ISO/BT30**  
2,1 Kg


Rpm

8.000



Ø 7



Nm

5



M 6


**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	80	
Prezzo EXTRA Price €	optional	std	std	optional	std	optional	std	
H Standard Ø18	65	65		65		65		
	optional		optional		optional		optional	
A		120		120		120		129
B		35		35		35		44

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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

 PINZA  
COLLET

 INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg


ER11 - Ø1/7



optional

optional

**FL90-13**

TYPE 1

Code:

9.FL9.13000

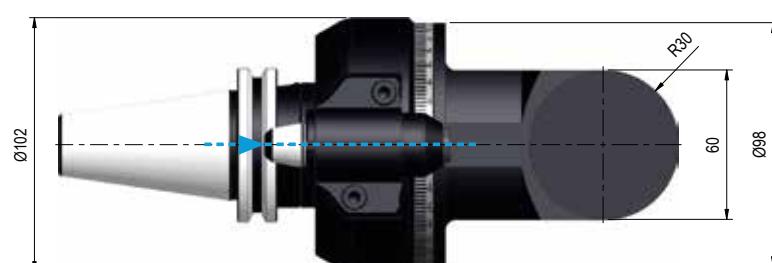
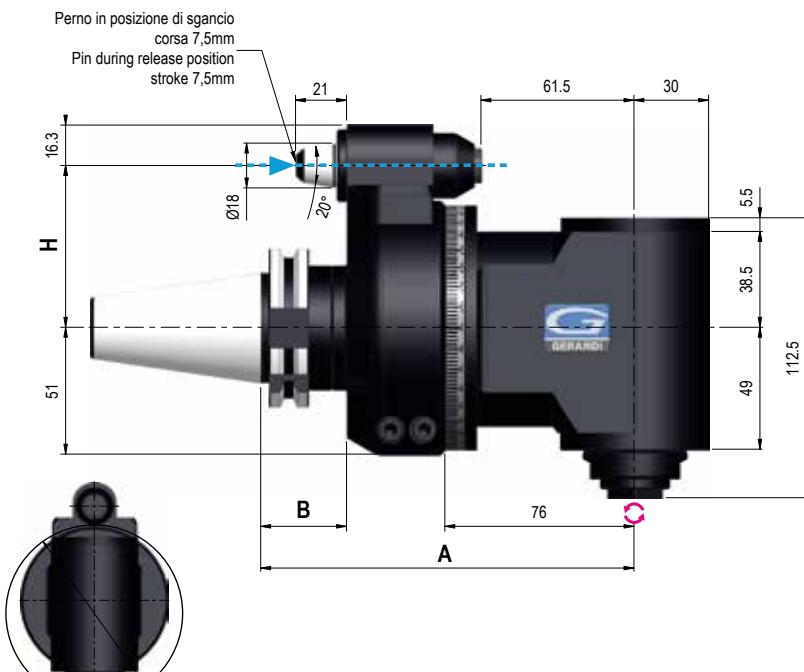
Price:



2

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT30 4,6 Kg ISO/BT40 5 Kg ISO/BT50 7,5 Kg
	Rpm 6.000		Ø 13
	N -		M 10
	Nm 20		ER20 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.	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	30 40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	opt. std opt.	opt. opt. opt.	opt. opt. opt.	on request on request	opt. opt.
H	Standard Ø18 110 - Ø18 110 - Ø28	65 / 80 optional	80 optional	65 / 80 optional	80 optional	65 / 80 optional	65 / 80 optional
A	150	150	150	158	159	-	-
B	35	35	35	43	44	-	-

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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

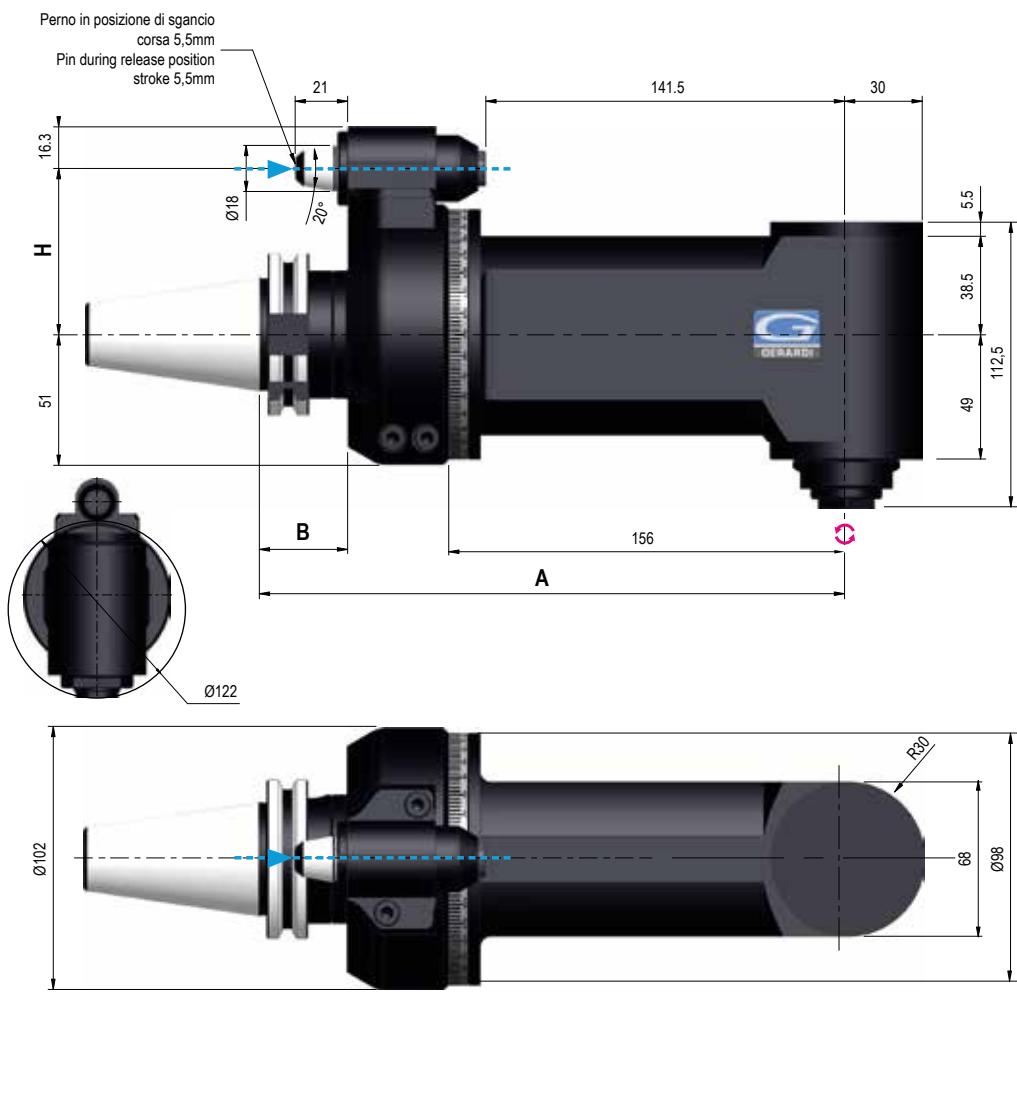
PINZA  
COLLETINTERASSE SPECIALE  
SPECIAL PITCHIMBALLO & PESO  
PACK & WEIGHT: Max. Kg

ER20 - 01/13



optional

optional


**FL90-13L**

TYPE 1

Code:

9.FL9.13L00

Price:


**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT40 5.7 Kg ISO/BT50 8 Kg
	Rpm 6.000		Ø 13
	N -		M 10
	Nm 20		ER20 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			KM		ISO DIN 2080			
Grandezza - Size	30	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt.	opt.	
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	
	110 - Ø18	optional		optional		optional		optional		optional		optional		optional		optional		
	110 - Ø28																	
A		150		150		150		158		159		-		-		-		
B		35		35		35		43		44		-		-		-		

**Dotazione Standard  
Standard Equipment**
**Opzioni - Options**

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

PINZA  
COLLETINTERASSE SPECIALE  
SPECIAL PITCH
**IMBALLO & PESO  
PACK & WEIGHT:**

Max. 12Kg



ER25 - Ø1/16



optional

optional



**FL90-16**

TYPE 1

Code:

9.FL9.16000

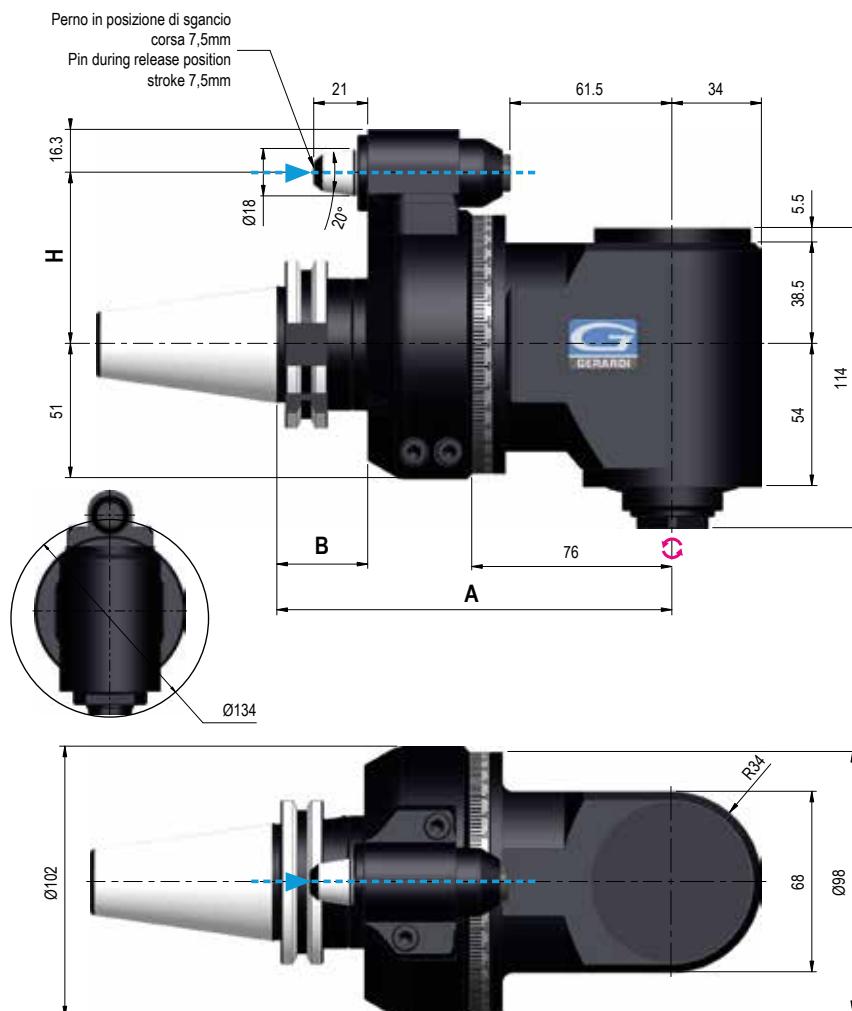
Price:



2

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT40 5 Kg
	Rpm 4.000		Ø 16
	N -		M 12
	Nm 26		ER25 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	KM	ISO DIN 2080
Grandezza - Size	40	50	40	50	40	50	63 80 100
Prezzo EXTRA Price €	std	opt.	std	opt.	std	opt.	opt. on request
H	Standard Ø18 110 - Ø18 110 - Ø28	65 / 80 optional	65 / 80 optional	80 optional	65 / 80 optional	80 optional	65 / 80 optional
A		150	150	150	158	159	-
B		35	35	35	43	44	-

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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

PINZA  
COLLETINTERASSE SPECIALE  
SPECIAL PITCH**IMBALLO & PESO**

PACK &amp; WEIGHT: Max. Kg

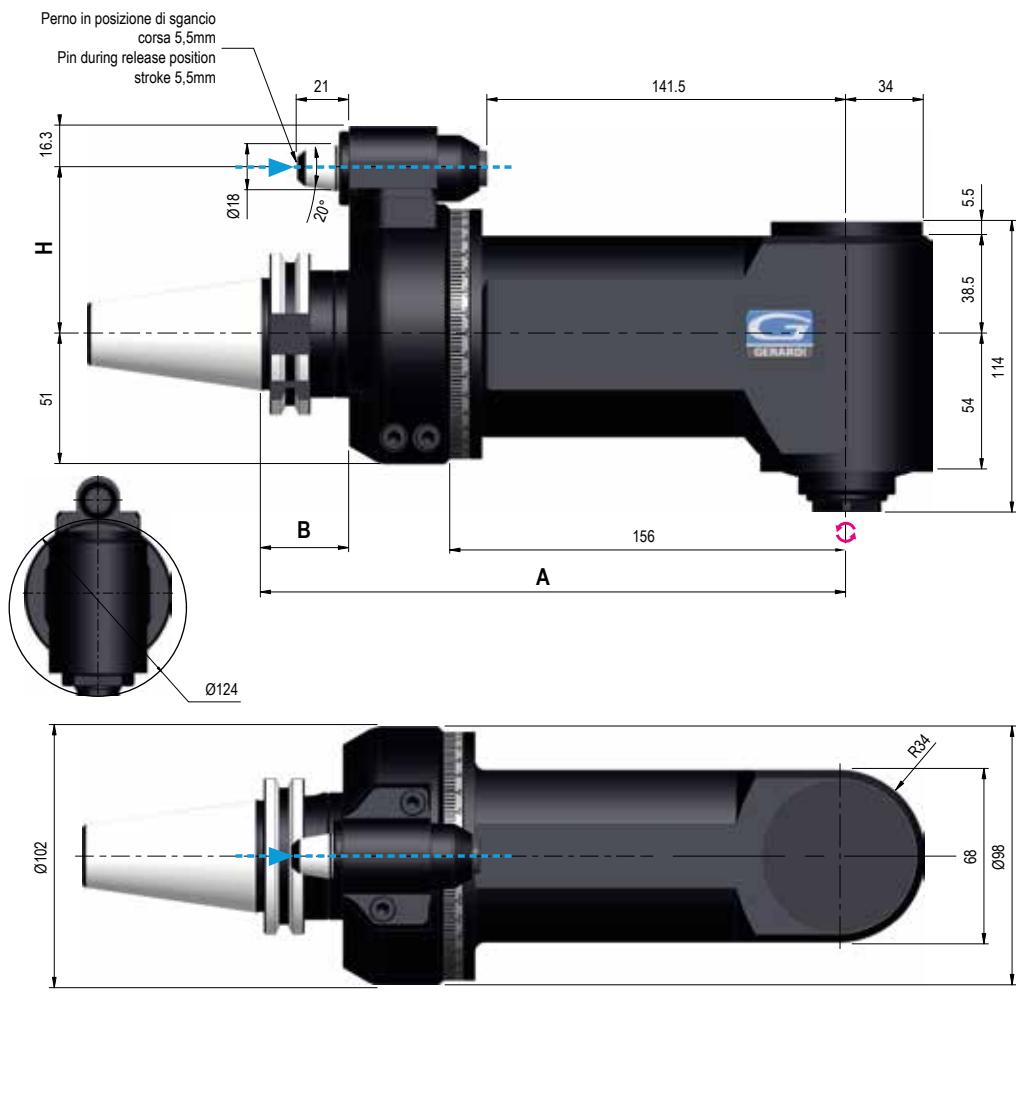


ER20 - 01/13



optional

optional


**FL90-16L**

TYPE 1

Code:

9.FL90.16L00

Price:


**Dati tecnici - Technical data**
Ratio  
1:1ISO/BT40  
6.5 Kg  
ISO/BT50  
8.5 KgRpm  
4.000

Ø 16



N -



M 12



Nm 26

ER25  
Ø1/16

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

<b>Coni</b> <b>Shanks</b>		<b>SK</b> DIN 69871		<b>CAT</b> ANSI B5.50		<b>BT</b> MAS 403		<b>HSK</b> DIN 69893		<b>C.</b> ISO 26623		<b>KM</b>		<b>ISO</b> DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100
<b>Prezzo EXTRA Price €</b>	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt. opt.
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65/80	80	65 / 80	80	65 / 80	80
	110 - Ø18	optional		110 - Ø28	optional		optional		optional		optional		optional		
A		150			150		150	158	159		-		-		-
B		35			35		35	43	44		-		-		-

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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

PINZA  
COLLETINTERASSE SPECIALE  
SPECIAL PITCH
**IMBALLO & PESO**  
PACK & WEIGHT: Max. 12Kg


ER25 - Ø1/16



optional

optional



series  
**LIGHT**

**Evolution Line - ATC Series**  
ANGLE HEADS

## FL90-16 2U

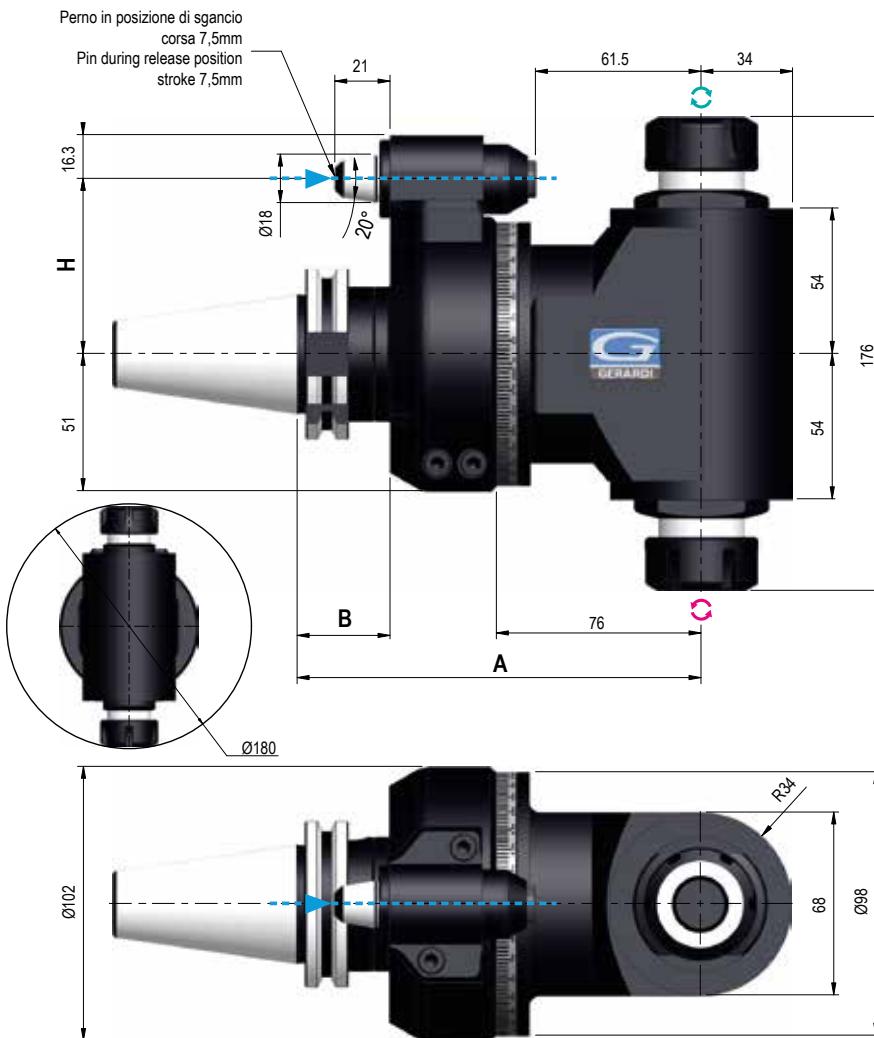
TYPE 1  
9.FL9.162U0

Code:  
Price:



### Dati tecnici - Technical data

	Ratio 1:1		6 Kg
	Rpm 4.000		Ø16
	N -		M12
	Nm 26		ER25 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		KM		ISO DIN 2080		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	
Prezzo EXTRA Price €	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt.	opt.
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65/80	80	65 / 80	80	65 / 80	80	
	110 - Ø18 110 - Ø28	optional		optional		optional		optional		optional		optional		optional		
A		150		150		150	158	159		-		-		-		
B		35		35		35	43	44		-		-		-		

### Dotazione Standard Standard Equipment

### Opzioni - Options

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



PINZA  
COLLET

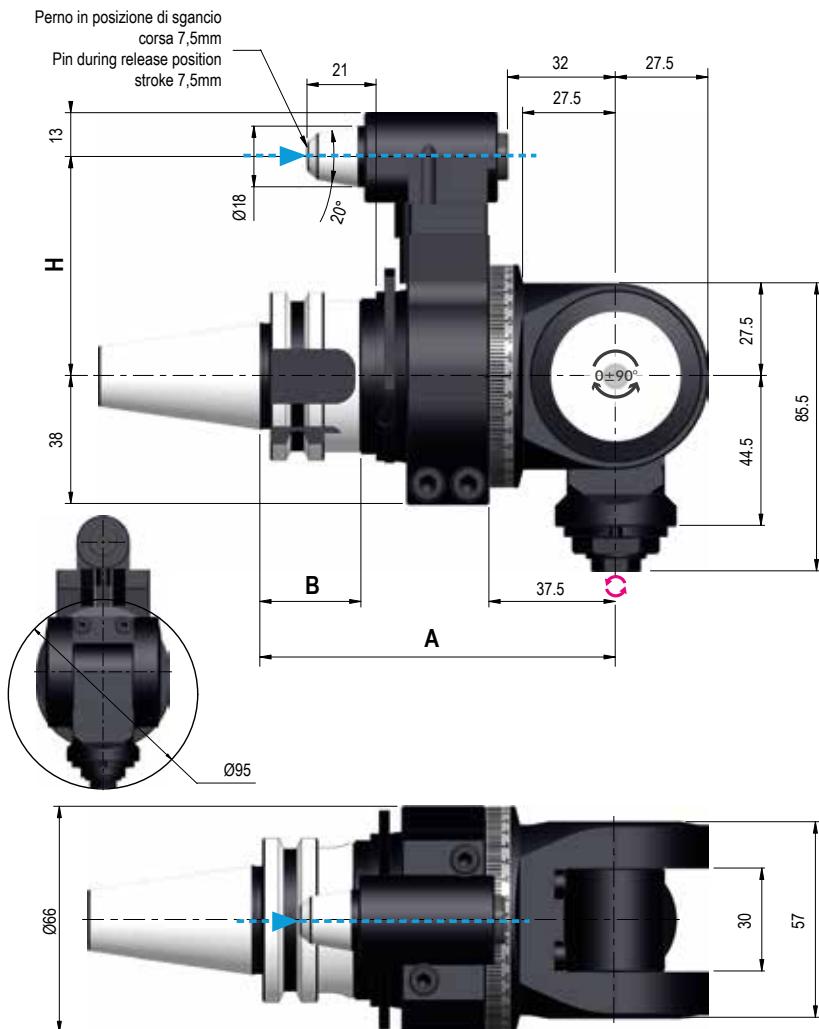
ER25 - Ø1/16

optional

INTERASSE SPECIALE  
SPECIAL PITCH



optional


**FLU-7**

TYPE 0

9.FLU.07000

Code:

Price:


**Dati tecnici - Technical data**


Ratio

1:1



ISO/BT30

- Kg

ISO/BT40

2 Kg



Rpm

8.000



Ø 7



N -



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	80	
Prezzo EXTRA Price €	optional	optional	std	optional	std	optional	std	
H Standard Ø18	65	65			65		65	
	std	std			std		std	
A		105,5		105,5	100,5	105,5		114,5
B		35		35	30	35		44

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg



ER11 - Ø1/7



optional

optional



series  
**SLIM**

**Evolution Line - ATC Series**  
ANGLE HEADS

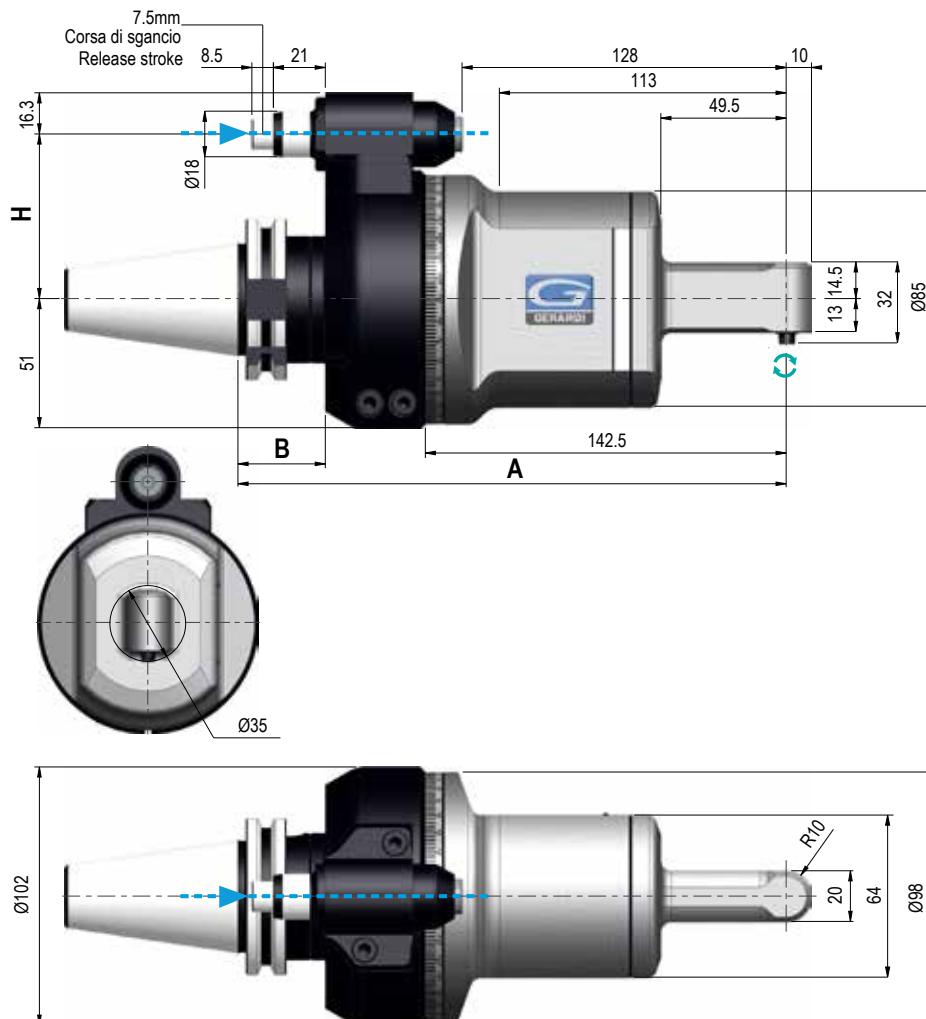
**FS90-3**

TYPE 1

Code:

9.FS9.03000

Price:



**Dati tecnici - Technical data**

	Ratio 1:1,2308		ISO/BT40 5,5 Kg ISO/BT50 7,5 Kg
	Rpm 8.000		Ø3
	N 70		M3
	Nm 2		6023E Ø1/3



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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	std opt.	opt. opt. opt.	opt. opt. opt.	on request on request	opt. opt.
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80 80	65 / 80 80	65 / 80 80
	110 - Ø18		110 - Ø28				
	optional	optional	optional	optional	optional	optional	optional
A	216,5	216,5	216,5	225,5	220,5	216,5	216,5
B	35	35	35	44	39	-	35

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg

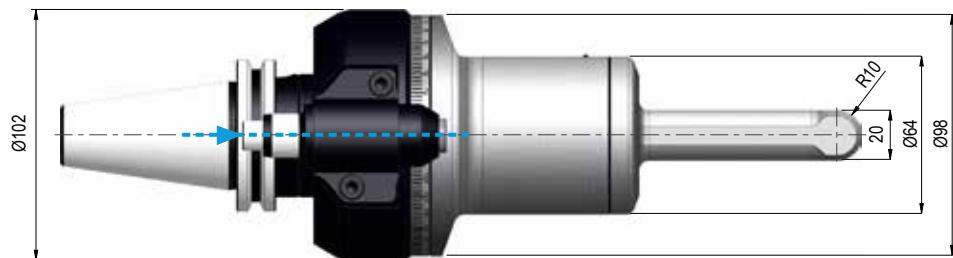
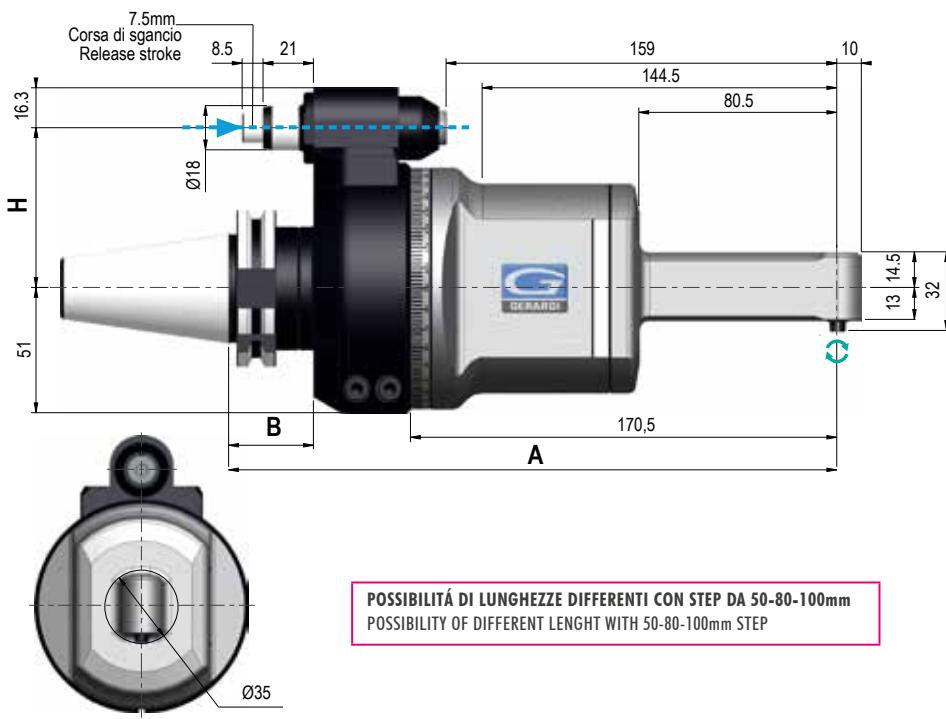


6023E



Page 2.82

optional



## FS90-3L

TYPE 1

Code:

9.FS9.03L00

Price:



### Dati tecnici - Technical data

Ratio  
1:1,2308ISO/BT40  
6.4 Kg  
ISO/BT50  
8.6 KgRpm  
8.000

Ø3



N 70



M3



Nm 2

6023E  
Ø1/3

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			KM			ISO DIN 2080					
Grandezza - Size	30	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50				
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt.	opt.				
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80					
	110 - Ø18	optional		optional		optional		optional		optional		optional		optional		optional						
A		247,5			247,5			247,5	255,5	256,5			251,5			247,5		247,5				
B		35			35			35	43	44			39			-		35				

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLETINTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg



6023E



optional

Page 2.82



series  
**SLIM**

**Evolution Line - ATC Series**  
ANGLE HEADS

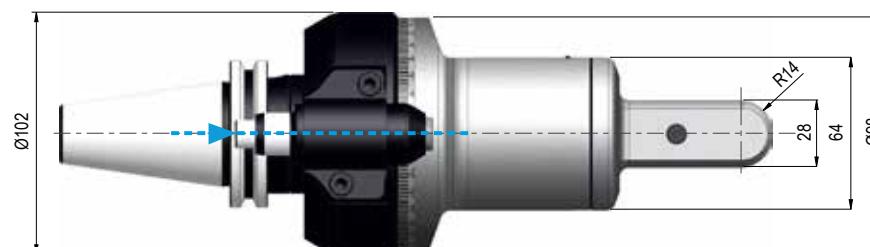
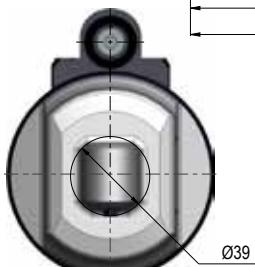
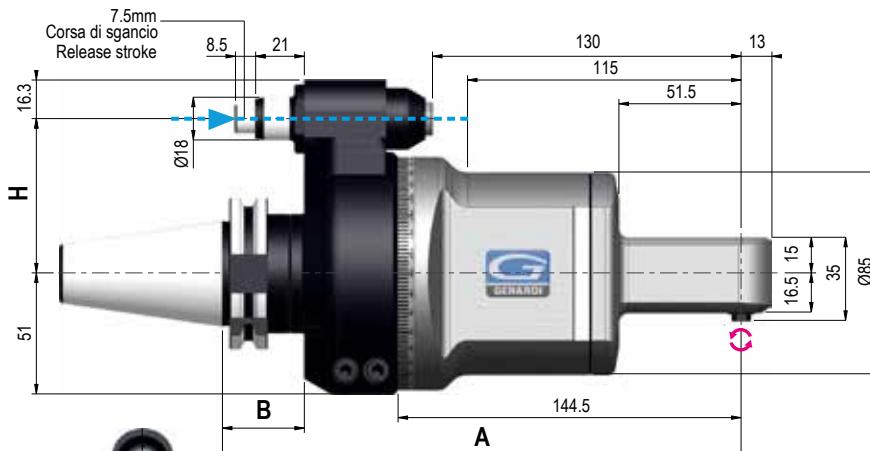
**FS90-4**

TYPE 1

Code:

9.FS9.04000

Price:



**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT40 5,5 Kg ISO/BT50 7,5 Kg
	Rpm 8.000		Ø4
	N 120		M3
	Nm 3,5		600E Ø1/4



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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	std opt.	opt. opt. opt.	opt. opt. opt.	on request on request	opt. opt.
H	Standard Ø18 110 - Ø18 110 - Ø28	65 / 80 optional	65 / 80 optional	65 / 80 optional	65/80 optional	65 / 80 optional	65 / 80 optional
A	218,5	218,5	218,5 226,5	227,5	222,5	218,5	218,5
B	35	35	35 43	44	39	-	35

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**

PACK & WEIGHT: Max. Kg

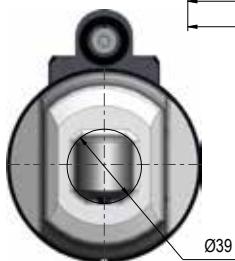
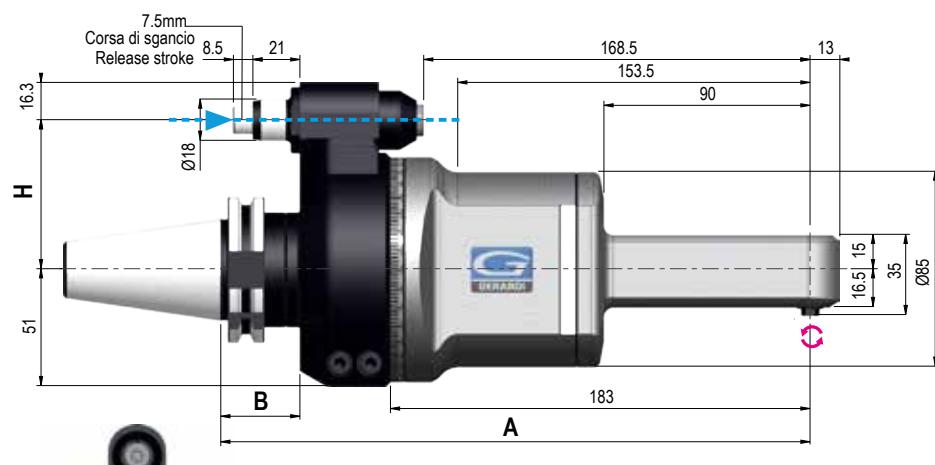


600E

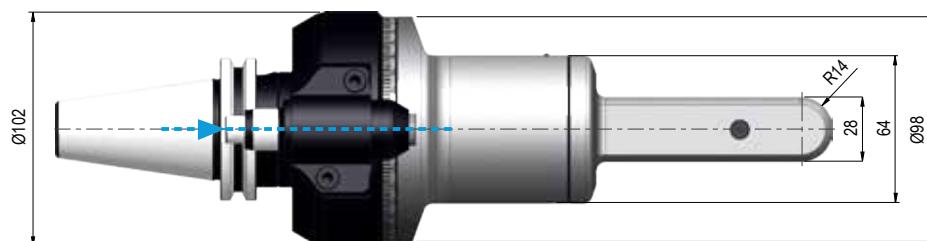


Page 2.82

optional



POSSIBILITÀ DI LUNGHEZZE DIFFERENTI CON STEP DA 50-80-100mm  
POSSIBILITY OF DIFFERENT LENGTH WITH 50-80-100mm STEP



## FS90-4L

TYPE 1

9.FS9.04L00

Code:

Price:



### Dati tecnici - Technical data



Ratio  
1:1



ISO/BT40  
6.8 Kg  
ISO/BT50  
9 Kg



Rpm  
8.000



Ø4



N 120



M3



Nm 3,5



600E  
Ø1/4



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			KM			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt.	opt.
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	
	110 - Ø18	optional		optional		optional		optional		optional		optional		optional		optional		
	110 - Ø28																	
A		257		257		257	265	266		261		257		257		257		
B		35		35		35	43	44		39		-		35				

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

### IMBALLO & PESO PACK & WEIGHT

Max.11,3 Kg



600E



optional



series  
**SLIM**

**Evolution Line - ATC Series**  
ANGLE HEADS

## FS90-6

TYPE 1

Code:

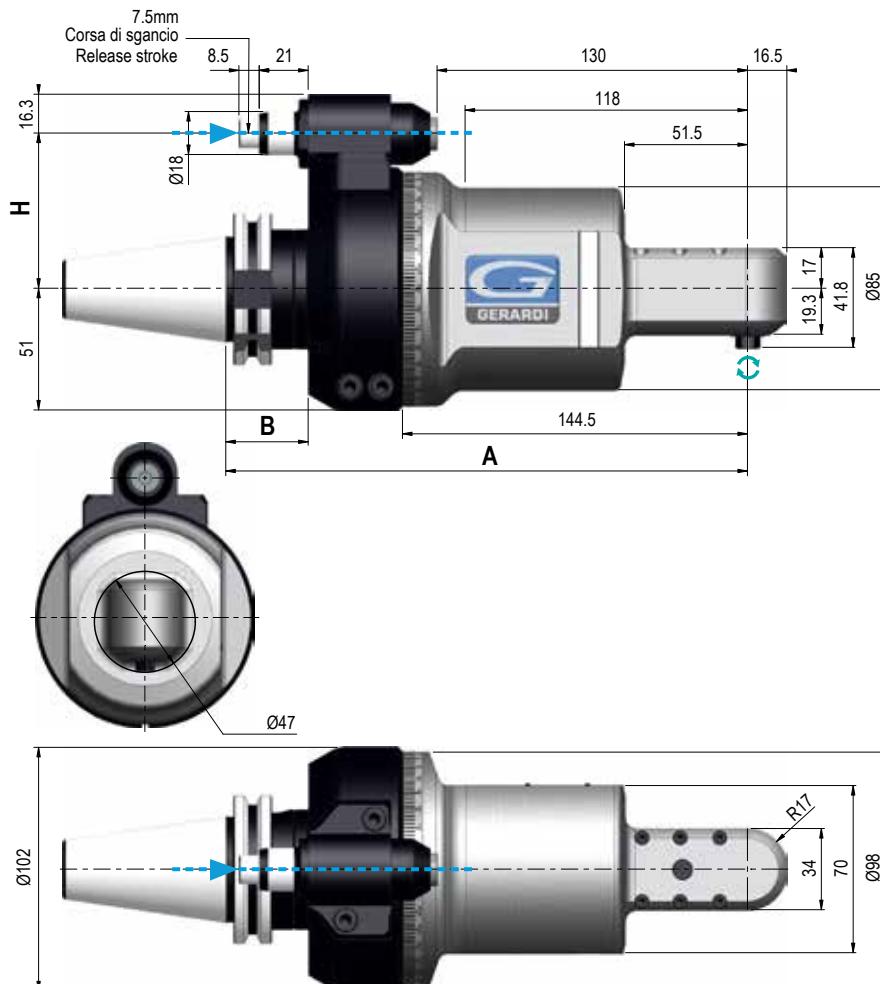
9.FS9.06000

Price:



### Dati tecnici - Technical data

	Ratio 1:1		ISO/BT40 6 Kg ISO/BT50 - Kg
	Rpm 8.000		Ø6
	N -		M6
	Nm 4		601E Ø1/6



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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	std opt.	opt. opt. opt.	opt. opt. opt.	on request on request	opt. opt.
H Standard Ø18	65 / 80	80	65 / 80	80	65	80	65
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	218,5	218,5	218,5	227,5	222,5	218,5	218,5
B	35	35	35	44	39	-	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg



PINZA COLLET  
601E

INTERASSE SPECIALE  
SPECIAL PITCH

Page 2.82

optional

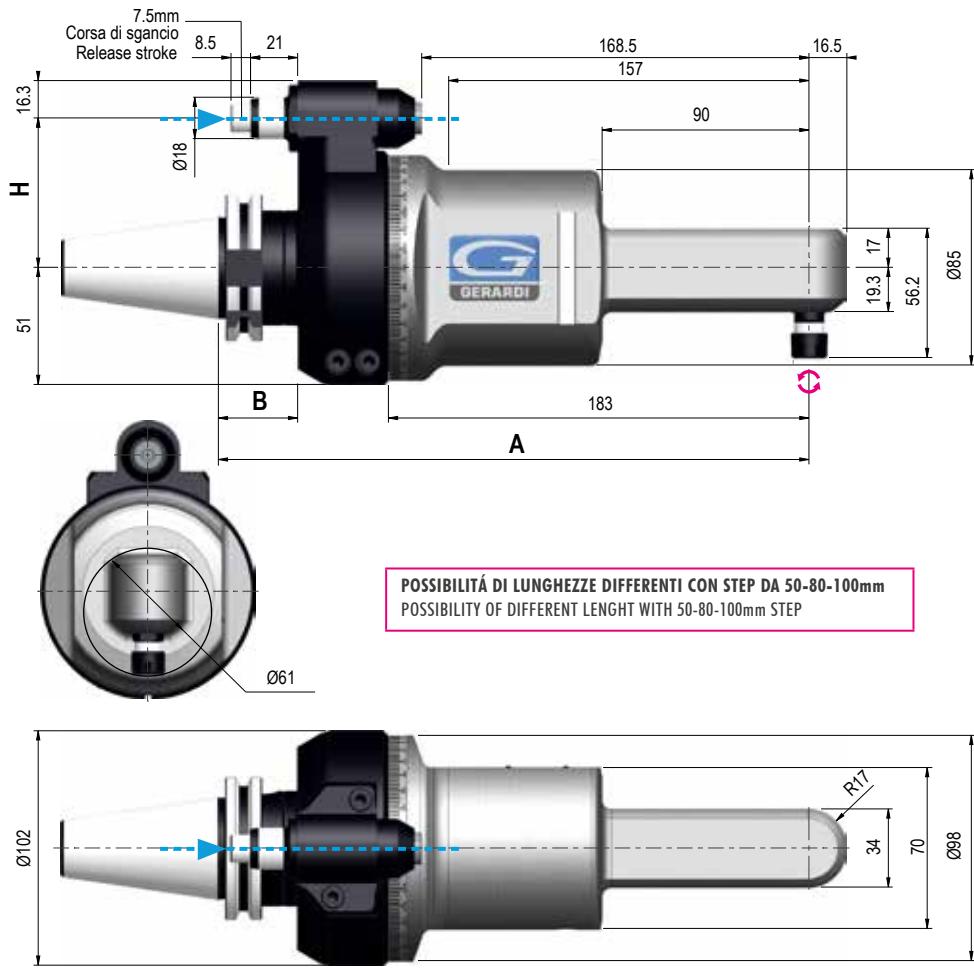


USCITA OUTPUT

ER11 Ø1/7



optional


**FS90-6L**

TYPE 1

9.FS9.06L00

Code:

Price:


**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT40 6 Kg ISO/BT50 8,3 Kg
	Rpm 8.000		Ø7
	N -		M6
	Nm 4		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			KM		ISO DIN 2080						
Grandezza - Size	30	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50				
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt.	opt.				
H	Standard Ø18		65 / 80		80		65 / 80		80		65 / 80		80		65 / 80		80					
	110 - Ø18		optional		optional		optional		optional		optional		optional		optional		optional					
	110 - Ø28																					
A	257			257			257		265		266			261			257	257				
B	35			35			35		43		44			39			-	35				

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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



USCITA  
OUTPUT  
601E - Ø1/6

optional

INTERASSE SPECIAL  
SPECIAL PITCH

optional

**F90-7**

TYPE 1

Code:

9.F90.07000

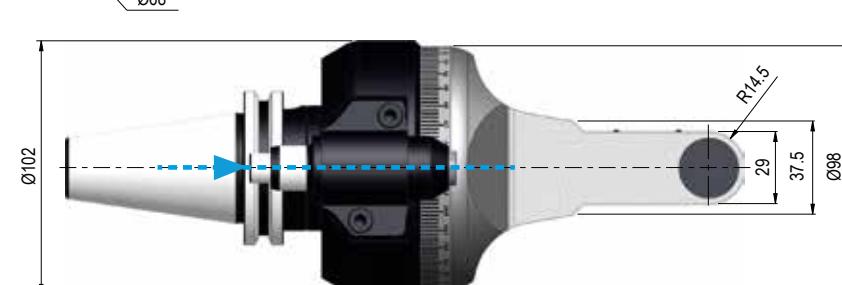
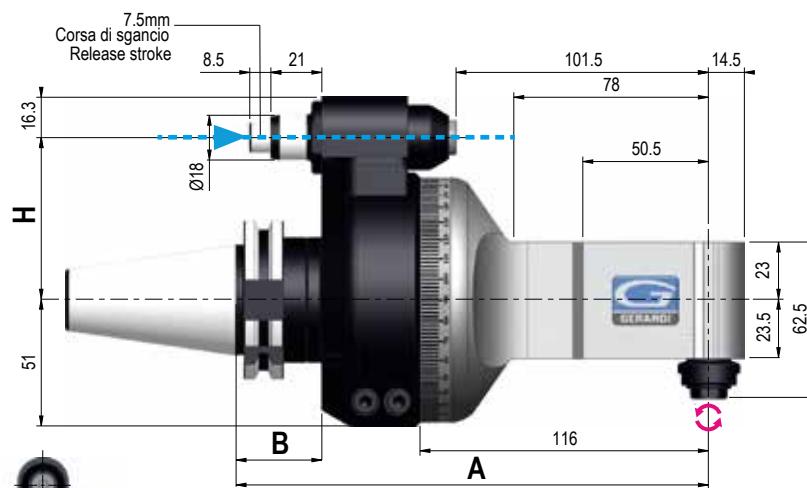
Price:



2

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT40
	5 Kg		ISO/BT50
	10.000		Ø7
	N 127		M6
	Nm 6		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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt. std opt. std opt.	opt. opt. opt. opt. opt.	opt. opt. opt. opt. opt.	opt. opt. opt. opt. opt.	on request on request	on request on request	opt. opt.
H	Standard Ø18 110 - Ø18 110 - Ø28	65 / 80 80	65 / 80 80	65 / 80 80	65/80 80	65 / 80 80	65 / 80 80
A	190	190	190	199	194	190	190
B	35	35	35	44	39	-	35

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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 Kg



PINZA COLLET

ER11 Ø1/7

optional

INTERASSE SPECIALE  
SPECIAL PITCH

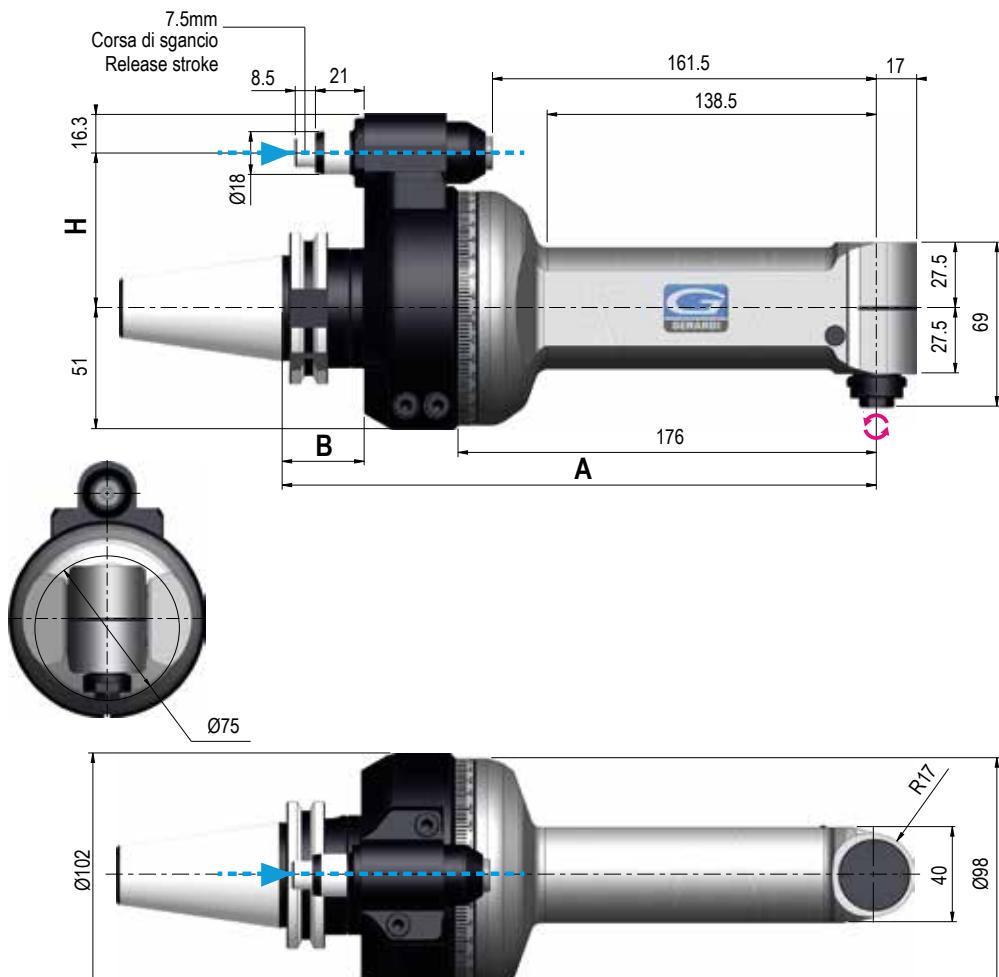
optional



USCITA OUTPUT

Weldon Max Ø10

optional


**F90-7L**

TYPE 1

Code:

9.F90.07L00

Price:


**Dati tecnici - Technical data**
Ratio  
1:1ISO/BT40  
6.3 Kg  
ISO/BT50  
8.5 KgRpm  
10.000

Ø7



N 180



M6



Nm 6

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			KM		ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt.	opt.
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65/80	80	65 / 80	80	65 / 80	80	
	110 - Ø18	optional		optional		optional		optional		optional		optional		optional			
	110 - Ø28																
A		250		250		250		259		254		250		250			
B		35		35		35		43		44		39		-			

**Dotazione Standard  
Standard Equipment**
**Opzioni - Options**

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 &amp; WEIGHT: Max.10,5 Kg

PINZA  
COLLET

ER11 Ø1/7

INTERASSE SPECIAL  
SPECIAL PITCH

optional

USCITA  
OUTPUT

Weldon Max Ø10

optional

**F90-10**

TYPE 1

Code:

9.F90.10000

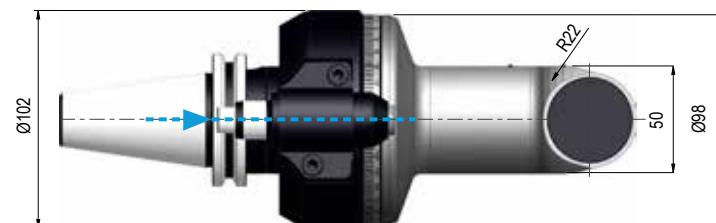
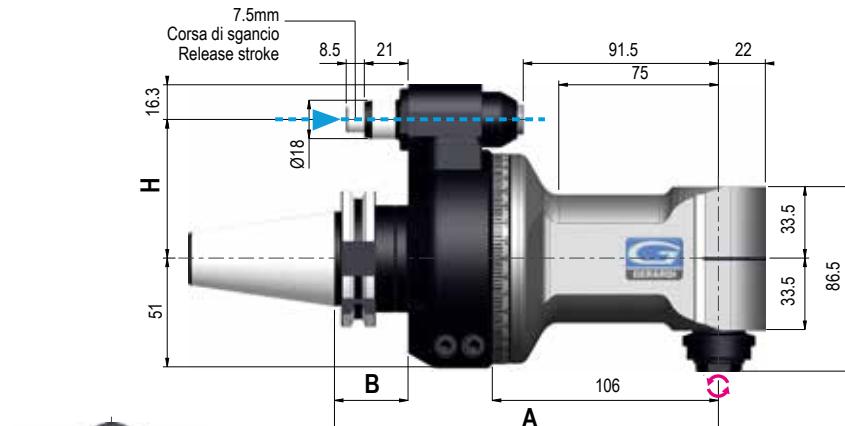
Price:



2

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT40
	5,3 Kg		ISO/BT50 7,5 Kg
	10.000		Ø10
	N 400		M8
	Nm 11		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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	30 40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	opt. std opt.	opt. opt. opt.	opt. opt. opt.	opt. on request on request	opt. opt.
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80
	110 - Ø18	optional	110 - Ø28	optional	optional	optional	optional
	110 - Ø18		110 - Ø28				
A	180	180	180	188	189	184	180
B	35	35	35	43	44	39	-
							35

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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



PINZA COLLET

ER16 - Ø1/10

optional

INTERASSE SPECIALE  
SPECIAL PITCH

optional



USCITA OUTPUT

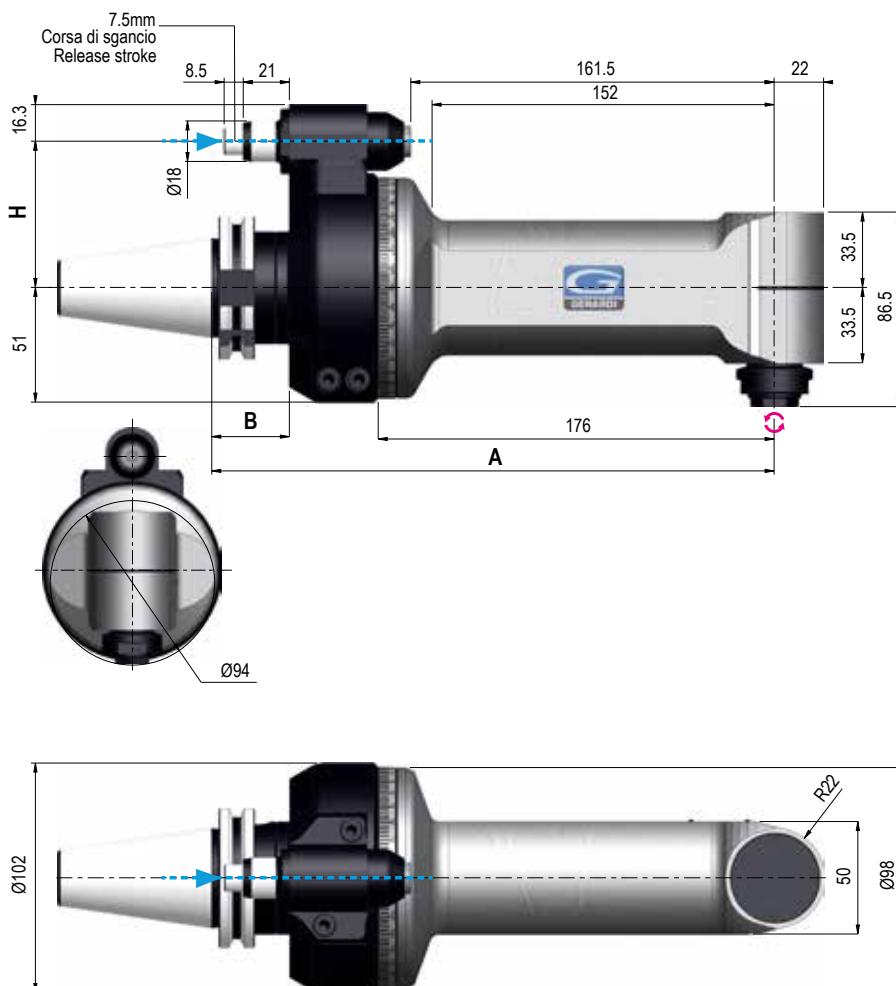
Weldon Max Ø10

optional

USCITA  
OUTPUT

Toolholder Ø16

optional


**F90-10L**

TYPE 1

Code:

9.F90.10L00

Price:


**Dati tecnici - Technical data**

	ISO/BT40 1:1		ISO/BT50 6.9 Kg
	Rpm 10.000		Ø10
	N 400		M8
	Nm 11		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			KM			ISO DIN 2080	
Grandezza - Size	30	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt.	opt.
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	80	
	110 - Ø18	optional		optional		optional		optional		optional		optional		optional		optional		
	110 - Ø28																	
A		250		250		250		258		259		254		250		250		
B		35		35		35		43		44		39		-		35		

**Dotazione Standard  
Standard Equipment**
**Opzioni - Options**

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**

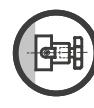
PACK & WEIGHT: Max.12,3 Kg

PINZA  
COLLET

ER16 - Ø1/10

INTERASSE SPECIAL  
SPECIAL PITCH

optional

USCITA  
OUTPUT  
Weldon Max Ø10USCITA  
OUTPUT  
Toolholder Ø16

optional

## F90-13

TYPE 1

Code:

9.F90.13000

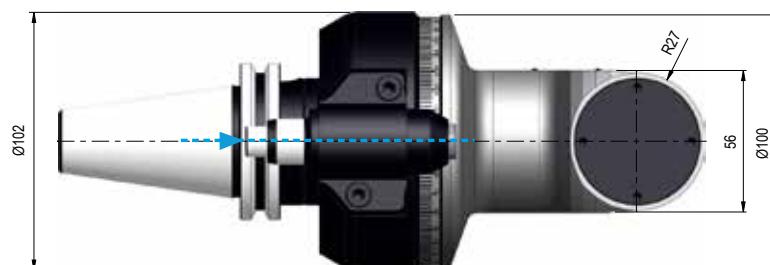
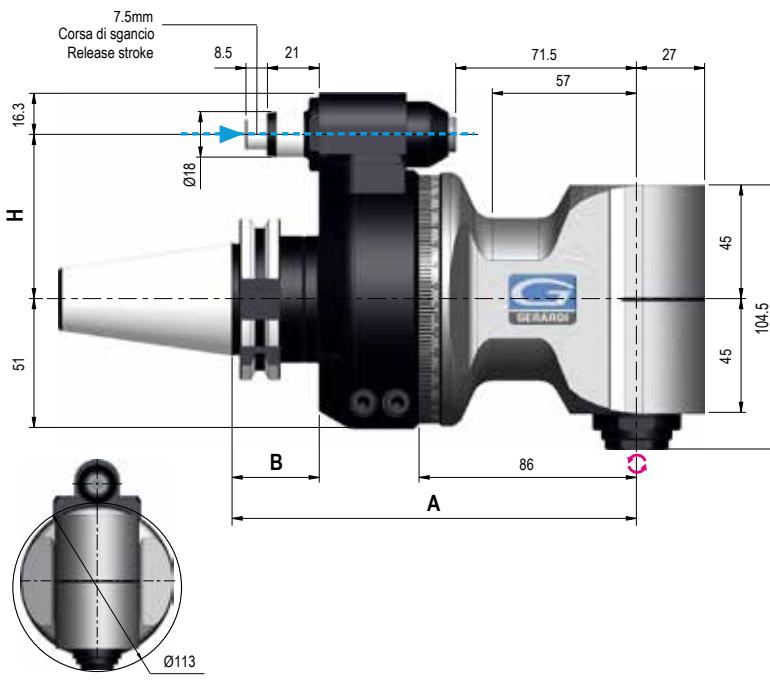
Price:



2

## Dati tecnici - Technical data

	Ratio 1:1		ISO/BT40 6,3 Kg
	Rpm 8.000		Ø 13
	N 810		M 10
	Nm 27		ER20 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	KM	ISO DIN 2080
Grandezza - Size	40	50	40	50	40	50	63
Prezzo EXTRA Price €	std	opt.	std	opt.	std	opt.	std
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	160	160	160	168	169	164	160
B	35	35	35	43	44	39	-
							160
							35

Dotazione Standard  
Standard Equipment

## Opzioni - Options

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



PINZA COLLET

ER20 - Ø1/13

optional

INTERASSE SPECIALE  
SPECIAL PITCH

optional



USCITA OUTPUT

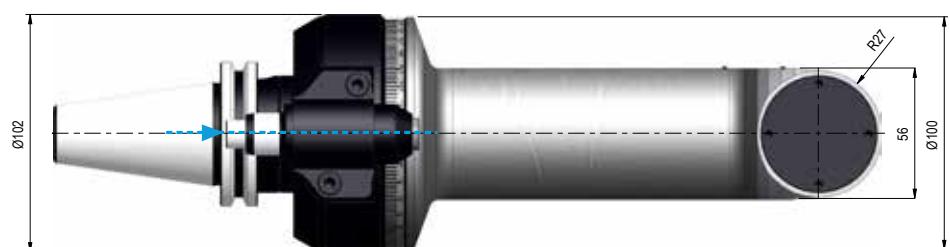
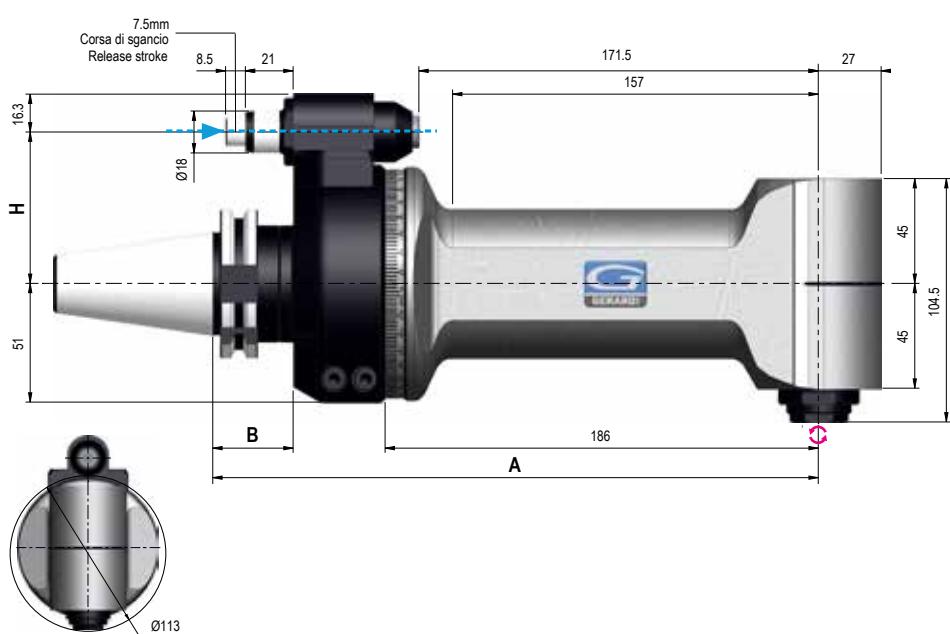
Weldon Max Ø16

optional

USCITA  
OUTPUT

Toolholder Ø16

optional


**F90-13L**

TYPE 1

Code:

9.F90.13L00

Price:


**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT40 6,5 Kg
	Rpm 8.000		Ø 13
	N 810		M 10
	Nm 27		ER20 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		KM		ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100
Prezzo EXTRA Price €	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	80	80	65 / 80	80	65 / 80	80	65 / 80	80
	110 - Ø18	optional		optional		optional		optional		optional		optional		optional	
	110 - Ø28														
A		260		260		260	268		269		264		260		260
B		35		35		35	43		44		39		-		35

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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

PINZA  
COLLET

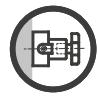
ER20 - Ø1/13

INTERASSE SPECIAL  
SPECIAL PITCH

optional

USCITA  
OUTPUT

Weldon Max Ø16

USCITA  
OUTPUT

Toolholder Ø16

optional

**F90-16S**

TYPE 1

Code:

9.F90.16S00

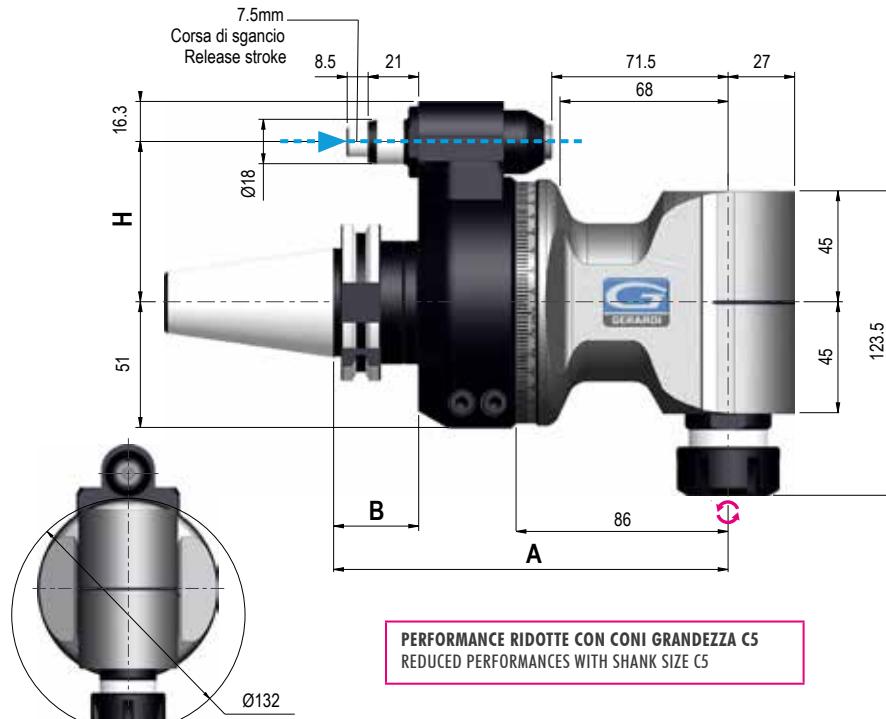
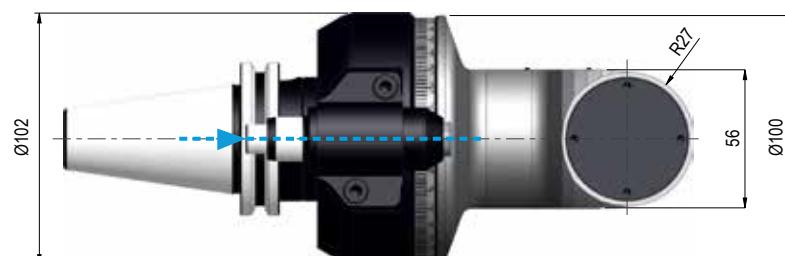
Price:



2

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT40 6,4 Kg ISO/BT50 8,7 Kg
	Rpm 8.000		Ø16
	N 810		M12
	Nm 27		ER25 Ø1/16


**PERFORMANCE RIDOTTÉ CON CONI GRANDEZZA C5**  
 REDUCED PERFORMANCES WITH SHANK SIZE C5


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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt. std opt. std opt.	opt. opt. opt.	opt. opt. opt.	opt. opt. opt.	opt. on request on request	opt. on request on request	opt. opt.
H	Standard Ø18 65 / 80 80 110 - Ø18 110 - Ø28	65 / 80 80 65 / 80 80	65 / 80 80	65 / 80 80	65/80 80	65 / 80 80	65 / 80 80
A	160	160	160 168	169	164	160	160
B	35	35	35 43	44	39	-	35

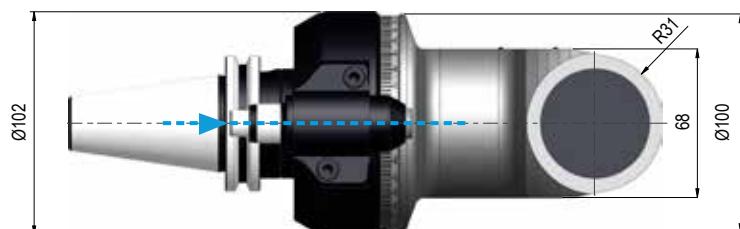
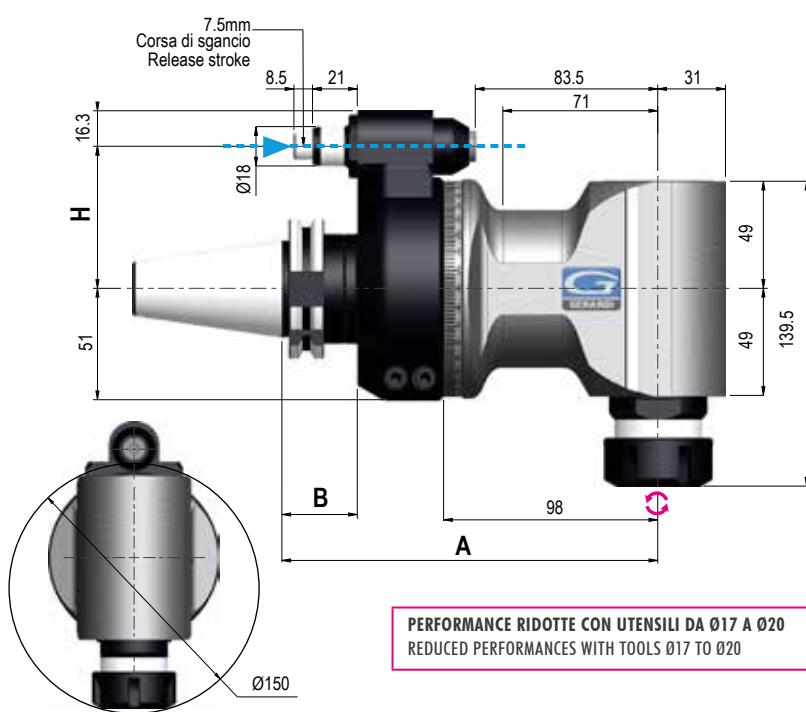
**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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.11,3 Kg



	PINZA COLLET ER25 - Ø1/16 optional		USCITA OUTPUT Weldon Max Ø16 optional		USCITA OUTPUT Toolholder Ø16 optional
	INTERASSE SPECIAL SPECIAL PITCH optional		DOPPIA USCITA DOUBLE OUTPUT ER25 - ER25 optional		



## F90-20S

TYPE 1

Code: 9.F90.20S00

Price:



### Dati tecnici - Technical data


 Ratio  
1:1

 ISO/BT40  
7 Kg  
ISO/BT50  
- Kg

 Rpm  
5.000


Ø20



N 1.040



M16



Nm 46


 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	KM	ISO DIN 2080
Grandezza - Size	40	40	40	63	C5	63	40
Prezzo EXTRA Price €	std	std	std	optional	optional	optional	optional
H	Standard Ø18	65 / 80	65 / 80	65 / 80	65/80	65 / 80	65 / 80
	110 - Ø18	optional	optional	optional	optional	optional	optional
	110 - Ø28						
A		172	172	172	181	176	172
B		35	35	35	44	39	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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 &amp; WEIGHT: Max.10,5 Kg


 PINZA  
COLLET  
ER32 - Ø2/20

optional

 INTERASSE SPECIAL  
SPECIAL PITCH

 optional  
  
USCITA  
OUTPUT  
Toolholder Ø16/22/27

 USCITA  
OUTPUT  
Weldon Max Ø20  
optional

 USCITA  
OUTPUT  
optional

**F90-16**

TYPE 2

Code:

9.F90.16000

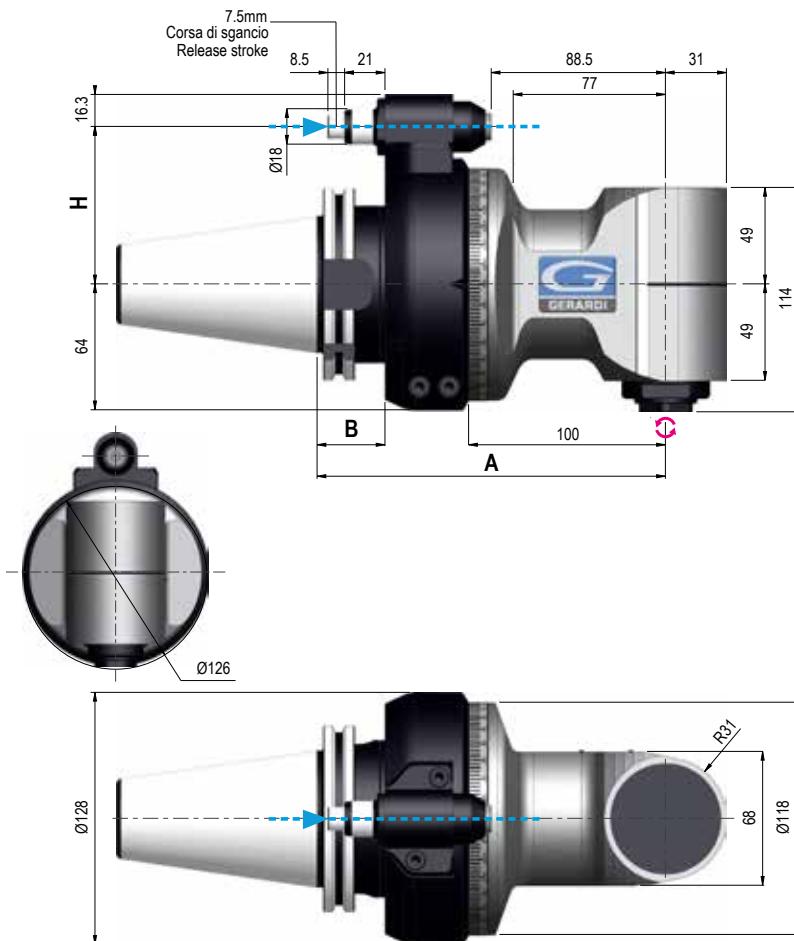
Price:



2

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT50 7 Kg
	Rpm 5.000		Ø16
	N 1.040		M12
	Nm 46		ER25 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.	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80	100	C8	80
Prezzo EXTRA Price €	std	optional	std	optional	optional	on request	optional
H	Standard Ø18	80	80	80	80	80	80
	110 - Ø18	optional	optional	optional	optional	optional	optional
	110 - Ø28						
A	177	177	185	186	181	177	177
B	35	35	43	44	39	-	35

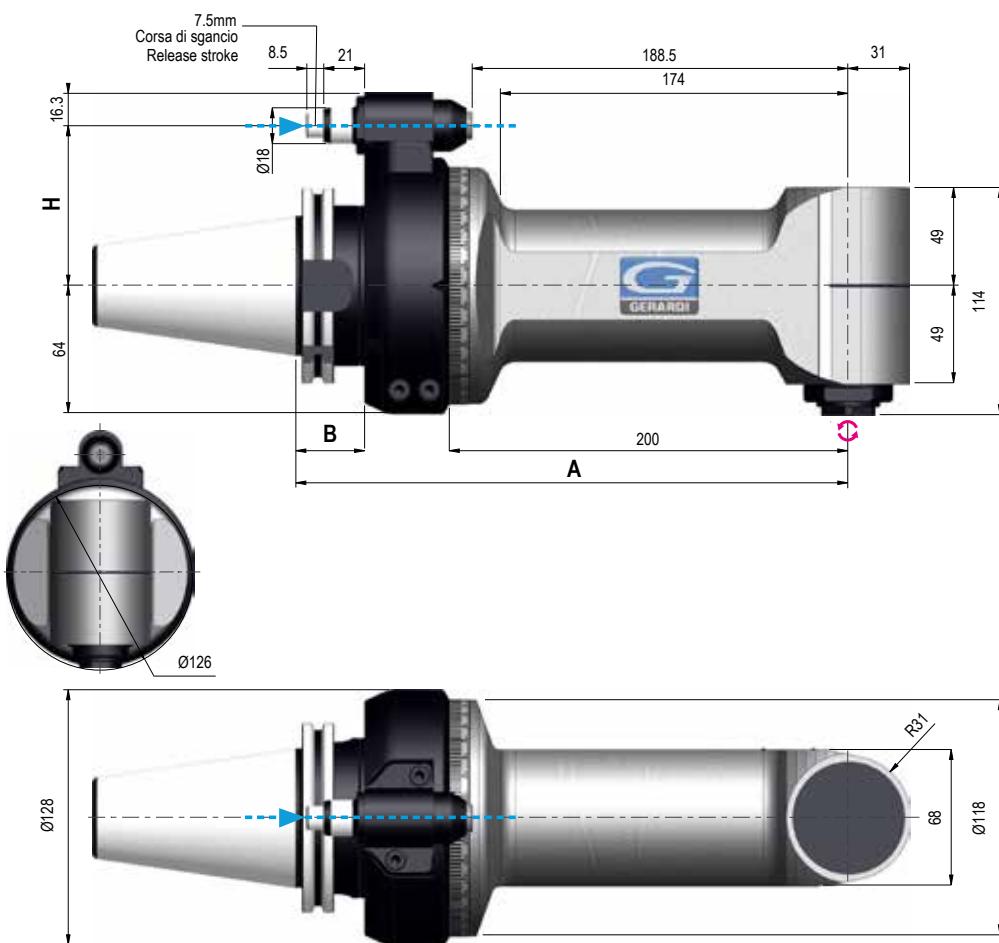
**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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. 16Kg



	USCITA OUTPUT		USCITA OUTPUT	
	HSK 32 optional		Weldon Max Ø20 optional	
	INTERASSE SPECIAL SPECIAL PITCH optional		PINZA COLLET	
			ER25 - Ø1/16 optional	


**F90-16L**

TYPE 2

Code:

9.F90.16L00

Price:


**Dati tecnici - Technical data**


Ratio

ISO/BT50  
12,7 Kg

Rpm



Ø16



N 1.040



M12



Nm 46

ER25  
Ø1/16

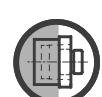
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893	C. ISO 26623	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80	100	C8	80
Prezzo EXTRA Price €	std	optional	std	optional	optional	On request	optional
H Standard Ø18	80	80	80	80	80	80	80
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	277	277	285	286	281	277	277
B	35	35	43	44	39	-	35

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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.15,8 Kg

USCITA  
OUTPUT

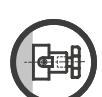
HSK 32

optional

USCITA  
OUTPUT

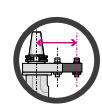
Weldon Max Ø20

optional

USCITA  
OUTPUT

Toolholder Ø16/22

optional

INTERASSE SPECIAL  
SPECIAL PITCH

optional

PINZA  
COLLET

ER25 - Ø1/16

optional

**F90-20**

TYPE 2

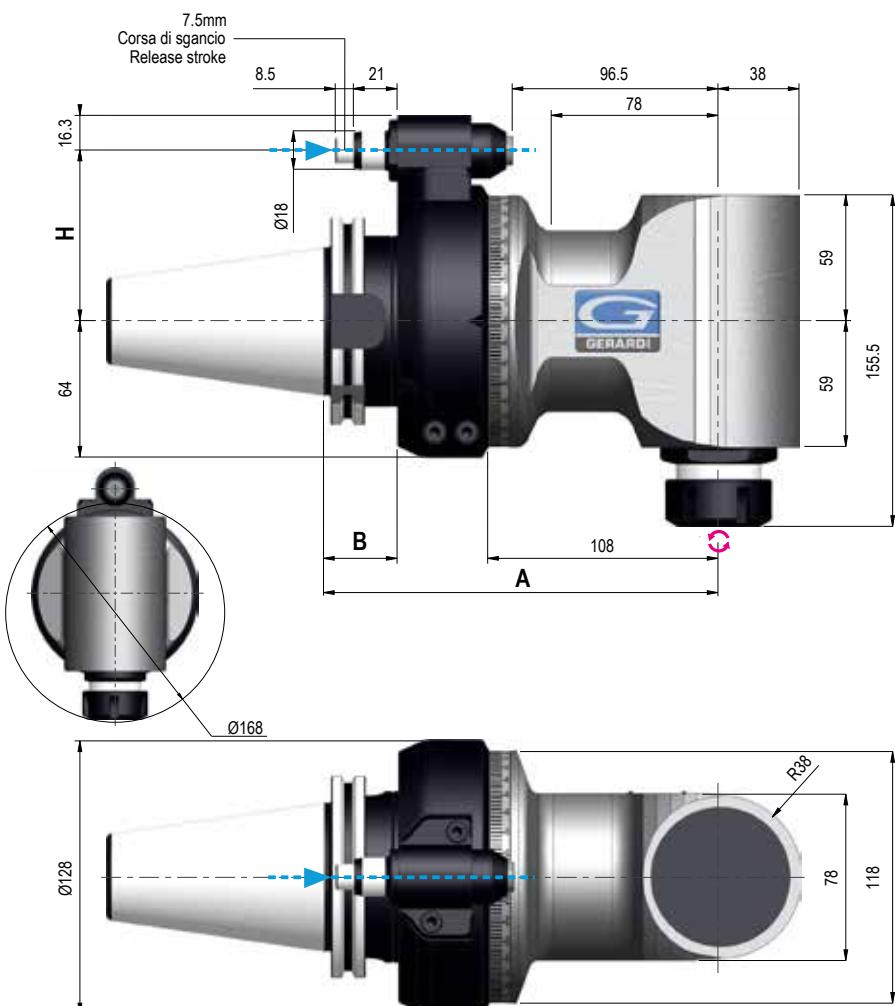
Code:

9.F90.20000

Price:

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT50 13,2 Kg
	Rpm 3.500		Ø20
	N 1.460		M14
	Nm 85		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.	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80 100	C8	80 100	50
Prezzo EXTRA Price €	std	optional	std	optional optional	optional	on request	optional
H	Standard Ø18	80	80	80	80	80	80
	110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional
A	185	185	193	194	189	185	185
B	35	35	43	44	39	-	35

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

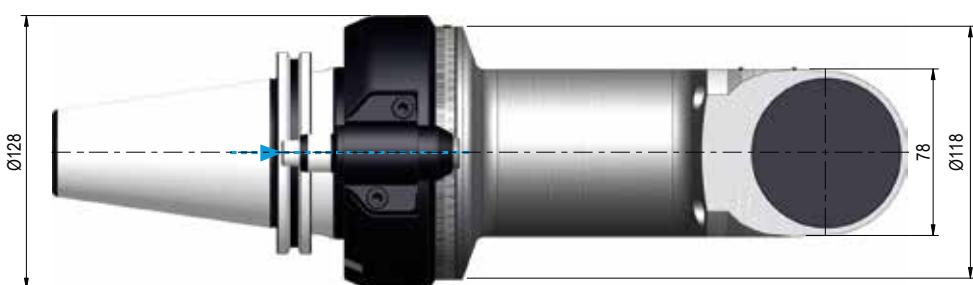
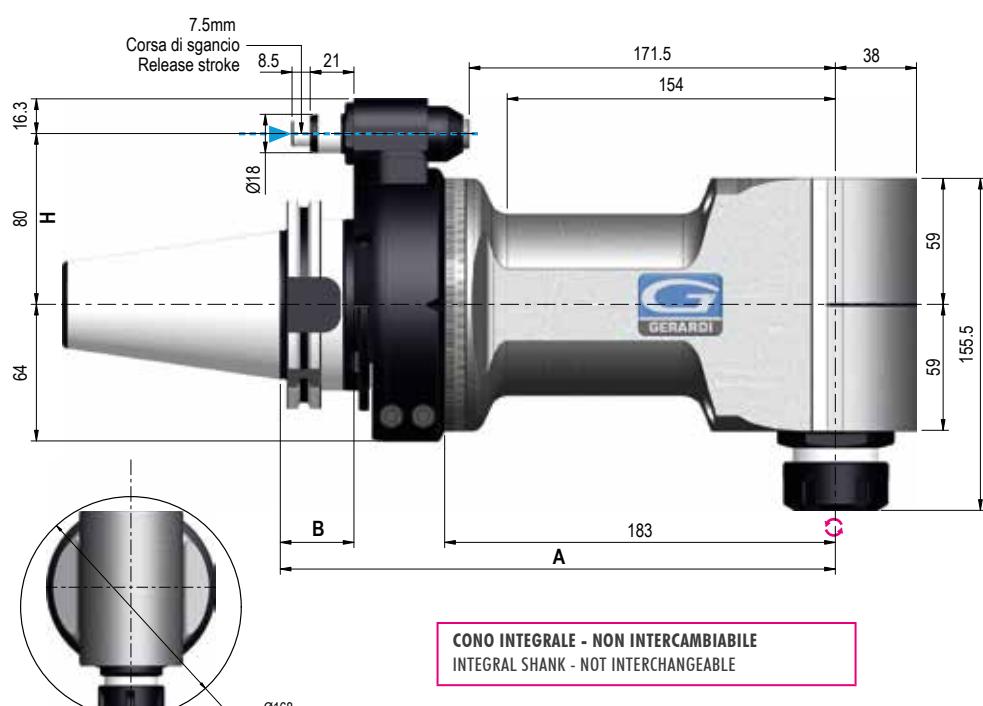
Cassa in legno - Stop-block -  
Ghiera ER - Chiavi di servizio -  
Tubetto di grasso - Libro istruzioni  
Wood box - Stop-block - ER nut -  
Wrenches - Grease tube - Instruction book

**IMBALLO & PESO**

PACK &amp; WEIGHT: Max.18 Kg



	USCITA OUTPUT ER 40 optional		USCITA OUTPUT HSK 40 optional		USCITA OUTPUT Weldon MAX 025 optional		USCITA OUTPUT ISO-CAT-BT 30 optional
	USCITA OUTPUT C4 optional		USCITA OUTPUT Toolholder Ø22-27-32 optional		INTERASSE SPECIALE SPECIAL PITCH optional		PINZA COLLET ER 32 Ø2/20 optional


**F90-20L**

TYPE 2

9.F90.20L00

Code:

Price:


**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT50 19 Kg
	Rpm 3.500		Ø20
	N 1.460		M14
	Nm 85		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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80	100	C8	80
Prezzo EXTRA Price €	std	optional	std	optional	optional	on request	optional
H	Standard Ø18	80	80	80	80	80	80
	110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional
A		260	260	268	269	264	260
B		35	35	43	44	39	35

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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



	USCITA OUTPUT ER 40 optional		USCITA OUTPUT HSK 40 optional		USCITA OUTPUT Weldon MAX Ø25 optional		USCITA OUTPUT ISO-CAT-BT 30 optional
	USCITA OUTPUT C4 optional		USCITA OUTPUT Toolholder Ø22-27-32 optional		INTERASSE SPECIALE SPECIAL PITCH optional		PINZA COLLET ER 32 Ø2/20 optional

**F90-S40**

TYPE 3

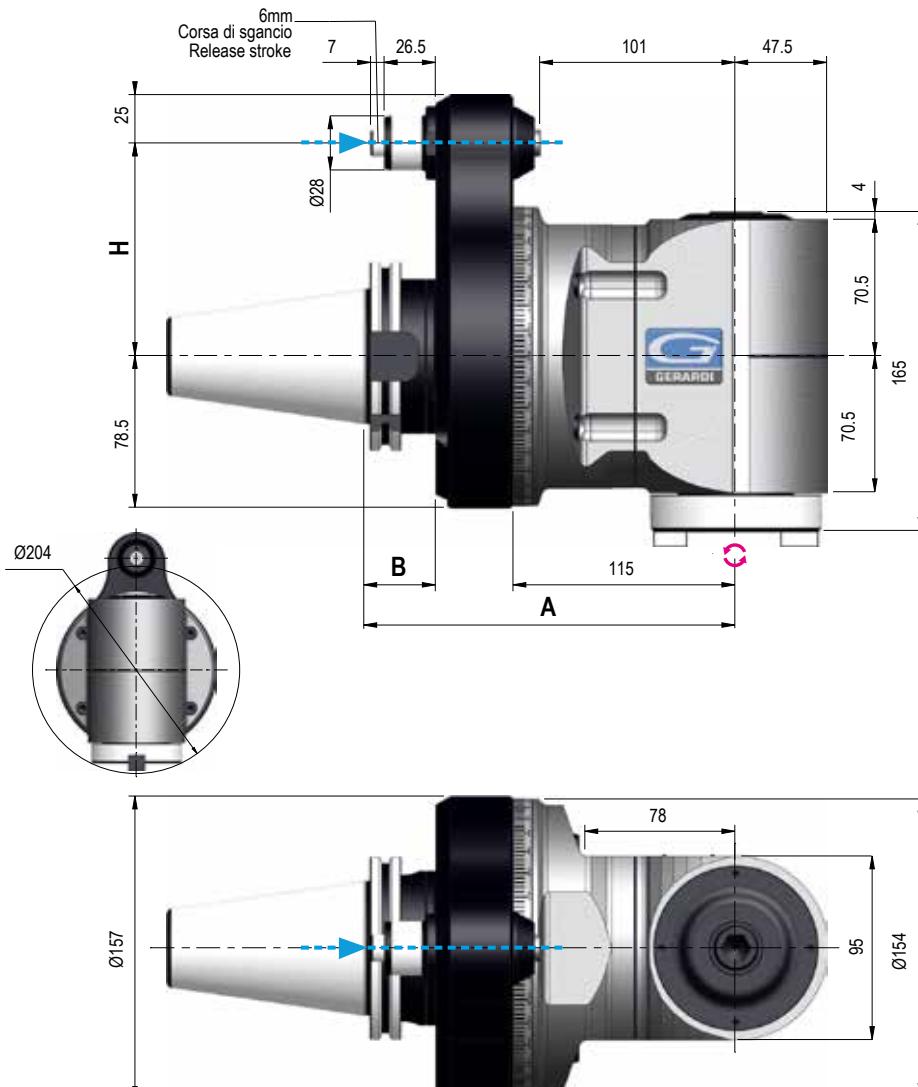
Code:

9.F90.S4000

Price:

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT50 21,7 Kg
	Rpm 2.500		Ø26
	N 3.020		M20
	Nm 135		ISO-CAT BT 40



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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80 100	C8	80 100	50
Prezzo EXTRA Price €	std	optional	std	optional optional	optional	On request	optional
H Standard Ø28	110	110	110	110	110	110	110
A	192	192	200	201	196	192	192
B	37	37	45	44	39	-	37

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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

USCITA  
OUTPUT

HSK 63

INTERASSE SPECIALE  
SPECIAL PITCH

optional

optional

USCITA  
OUTPUT

C5

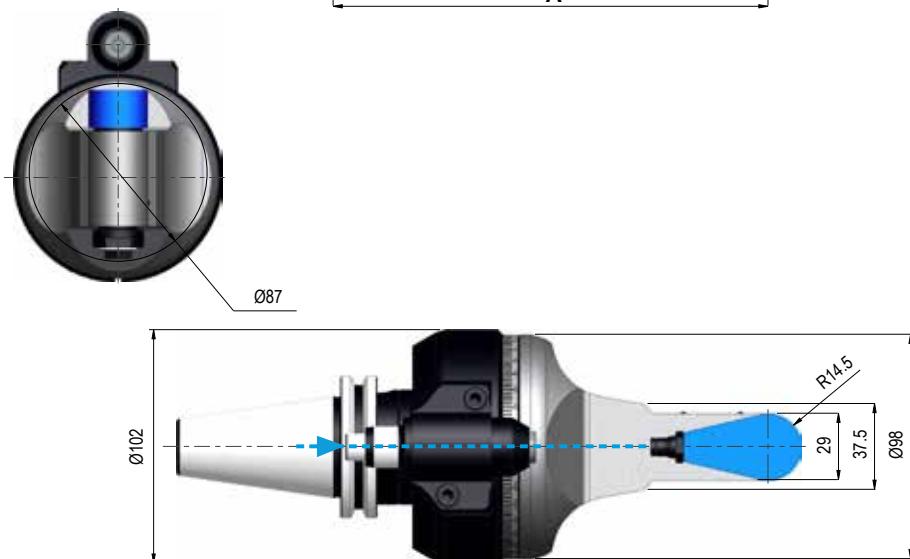
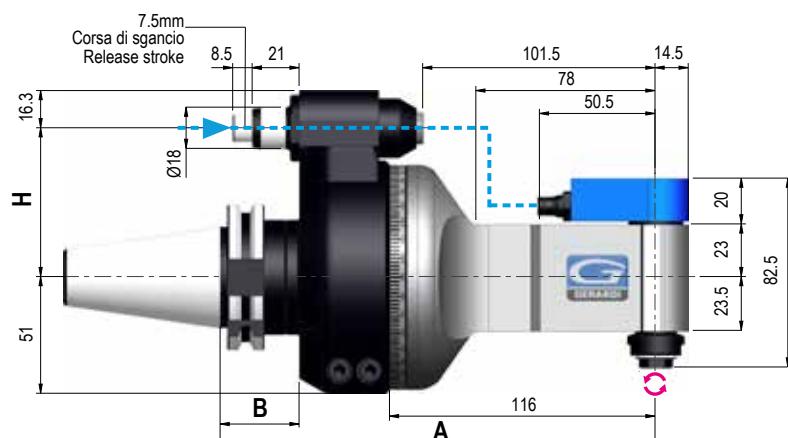
optional

USCITA  
OUTPUT

ER40 (F90-30)

-




**F90-7 10BAR**

TYPE 1

Code:

9.F90.070B0

Price:

**Dati tecnici - Technical data**Ratio  
1:1ISO/BT40  
5 KgRpm  
10.000

Ø7



N 127



M6



Nm 6

ER11WP  
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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	std opt.	opt. opt. opt.	opt. opt. opt.	on request on request	opt. opt.
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80 80
	110 - Ø18		optional	optional	optional	optional	optional
	110 - Ø28						
A	190	190	198	198	199	194	190
B	35	35	35	43	44	39	-
190							35

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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

PINZA  
COLLET

ER11 - Ø1/7

INTERASSE SPECIAL  
SPECIAL PITCH

optional

**IMBALLO & PESO**  
PACK & WEIGHT: Max.11 KgUSCITA  
OUTPUT

Weldon MAX Ø10

optional

USCITA  
OUTPUT

optional



## F90-7L 10BAR

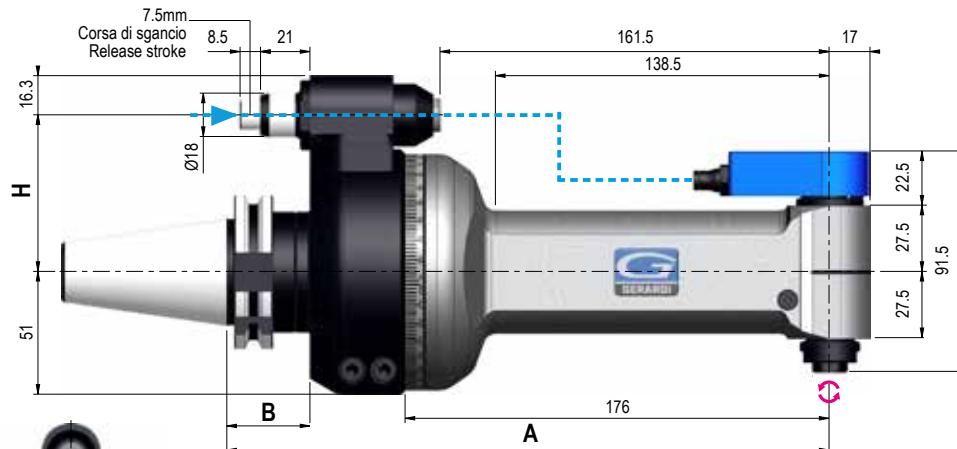
Code:

TYPE 1  
9.F90.07LB0

Price:



2

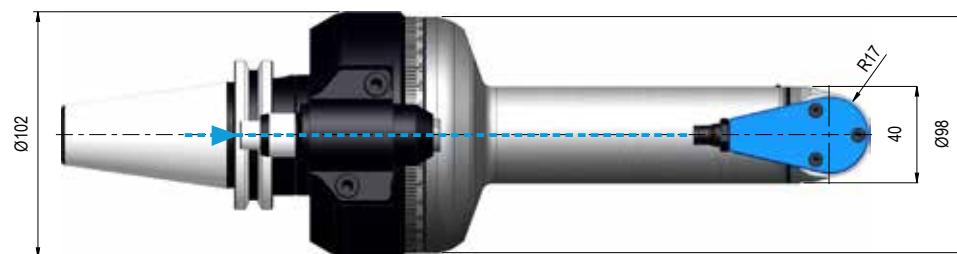


### Dati tecnici - Technical data

Ratio 1:1	ISO/BT40 6,6 Kg ISO/BT50 8,6 Kg
Rpm 10.000	Ø7
N 180	M6
Nm 6	ER11 WP 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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt. std opt. std opt.	opt. opt. opt.	opt. opt. opt.	opt. opt. opt.	opt. on request on request	opt. on request on request	opt. opt.
H	Standard Ø18 110 - Ø18 110 - Ø28	65 / 80 optional	80 optional	65 / 80 optional	80 optional	65/80 optional	80 optional
A	250	250	250 258	259	254	250	250
B	35	35	35 43	44	39	-	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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.11,5 Kg



PINZA COLLET

ER16 - Ø1/10

optional

INTERASSE SPECIALE  
SPECIAL PITCH



optional



USCITA OUTPUT

Weldon MAX Ø10

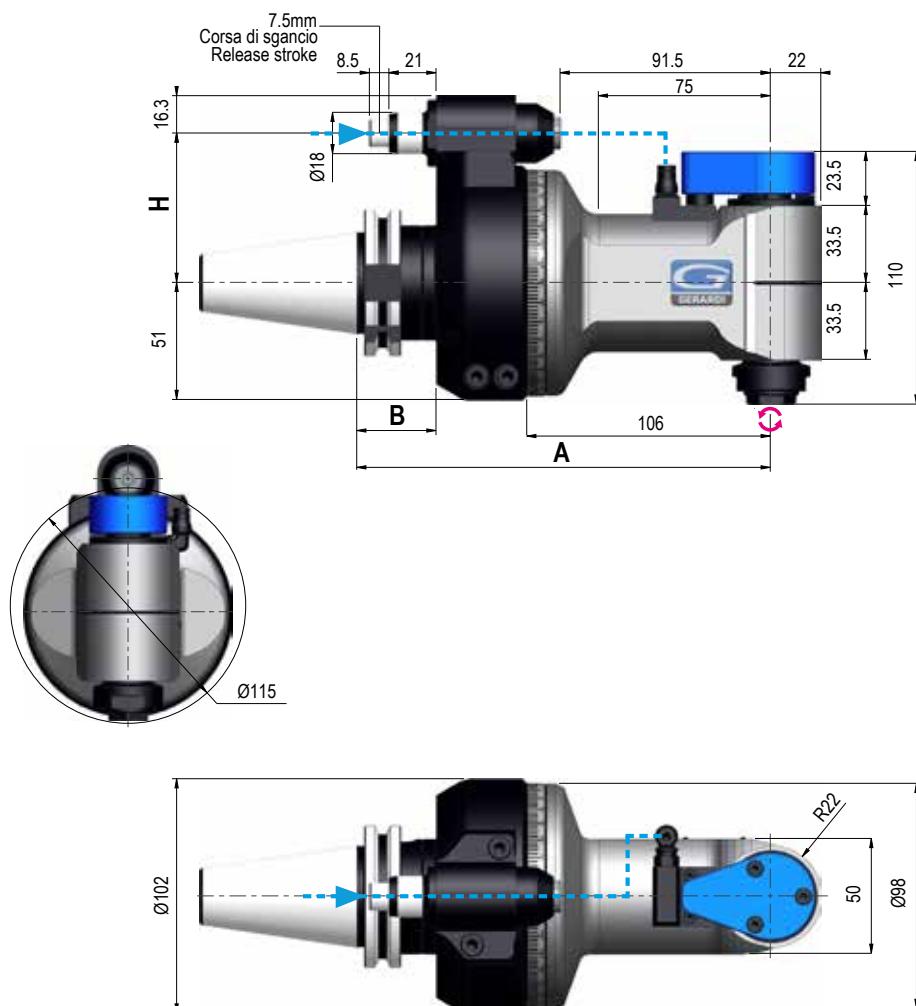
optional



USCITA OUTPUT

ER11 WP Ø3/10

optional


**F90-10 10BAR**

TYPE 1

Code:

9.F90.100B0

Price:

**Dati tecnici - Technical data**Ratio  
1:1ISO/BT40  
5,6 Kg  
ISO/BT50  
7,8 KgRpm  
10.000

Ø10



N 400



M8



Nm 11

ER16 WP  
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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt. std opt.	std opt.	opt. opt. opt.	opt. opt. opt.	opt. opt. opt.	on request on request	opt. opt.
H	Standard Ø18 110 - Ø18 110 - Ø28	65 / 80 optional	80 optional	65 / 80 optional	80 optional	65 / 80 optional	80 optional
A		180	180	180 188	189	184	180
B		35	35	35 43	44	39	-
							150 153

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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

PINZA  
COLLET

ER16 - Ø1/10

INTERASSE SPECIAL  
SPECIAL PITCH

optional

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg

USCITA  
OUTPUT

Weldon MAX Ø10

optional

USCITA  
OUTPUT

ER11 WP Ø3/10

optional



## F90-13 10BAR

TYPE 1

Code:

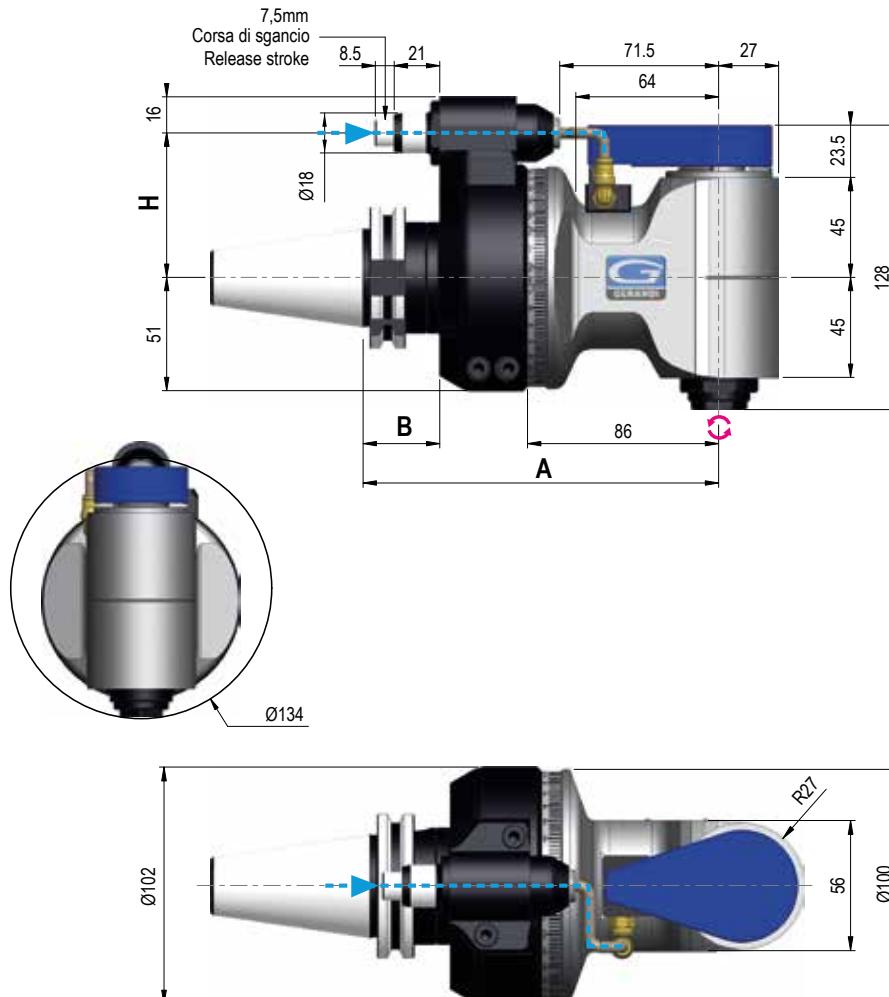
9.F90.130B0

Price:



### Dati tecnici - Technical data

Ratio 1:1	ISO/BT40 6,3 Kg
Rpm 8.000	Ø 13
N 810	M 10
Nm 27	ER20 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	KM	ISO DIN 2080
Grandezza - Size	40	50	40	50	40	50	40
Prezzo EXTRA Price €	std	opt.	std	opt.	std	opt.	std
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	160	160	160	168	169	164	160
B	35	35	35	43	44	39	35

### Dotazione Standard Standard Equipment

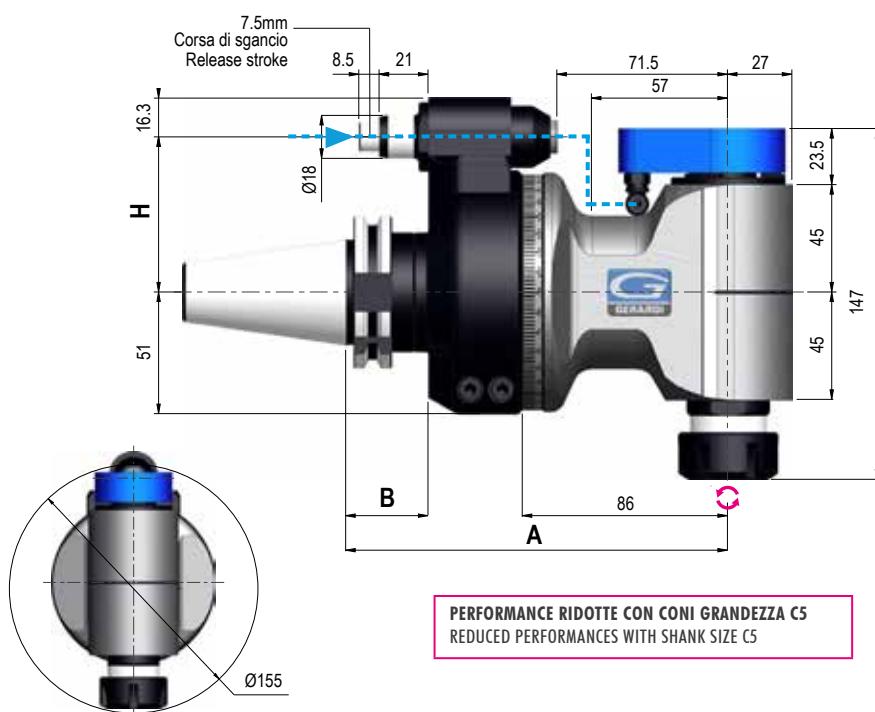
### Opzioni - Options

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



optional	optional	optional	optional
optional	optional	optional	optional
optional	optional	optional	optional
optional			


**F90-16S 10BAR**

TYPE 1

Code:

9.F90.16SB0

Price:

**Dati tecnici - Technical data**Ratio  
1:1ISO/BT40  
6.4 Kg  
ISO/BT50  
8.7 KgRpm  
8.000

Ø16



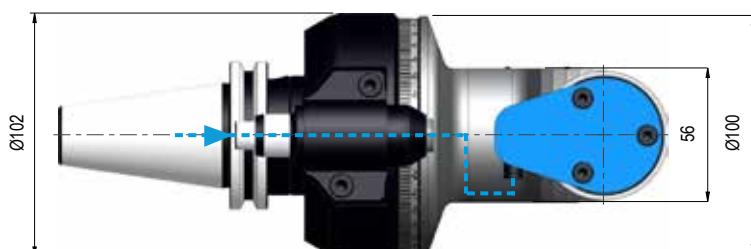
N 810



M12



Nm 25

ER25 WP  
Ø1 / 16

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

<b>Coni Shanks</b>	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893	C ISO 26623	KM	ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	50	63	
Prezzo EXTRA Price €	std	opt.	std	opt.	std	opt.	opt.	
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	
110 - Ø18	optional		optional		optional		optional	
110 - Ø28	optional		optional		optional		optional	
A	160		160		160		164	
B	35		35		43		39	

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

Valetta - 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 &amp; WEIGHT: Max.12,3 Kg

USCITA  
OUTPUT

Weldon MAX Ø20

INTERASSE SPECIAL  
SPECIAL PITCH

optional

PINZA  
COLLET

ER25 WP Ø3/16



optional

PINZA  
COLLET

ER25 Ø1/16

optional



## F90-16 10BAR

TYPE 2

Code:

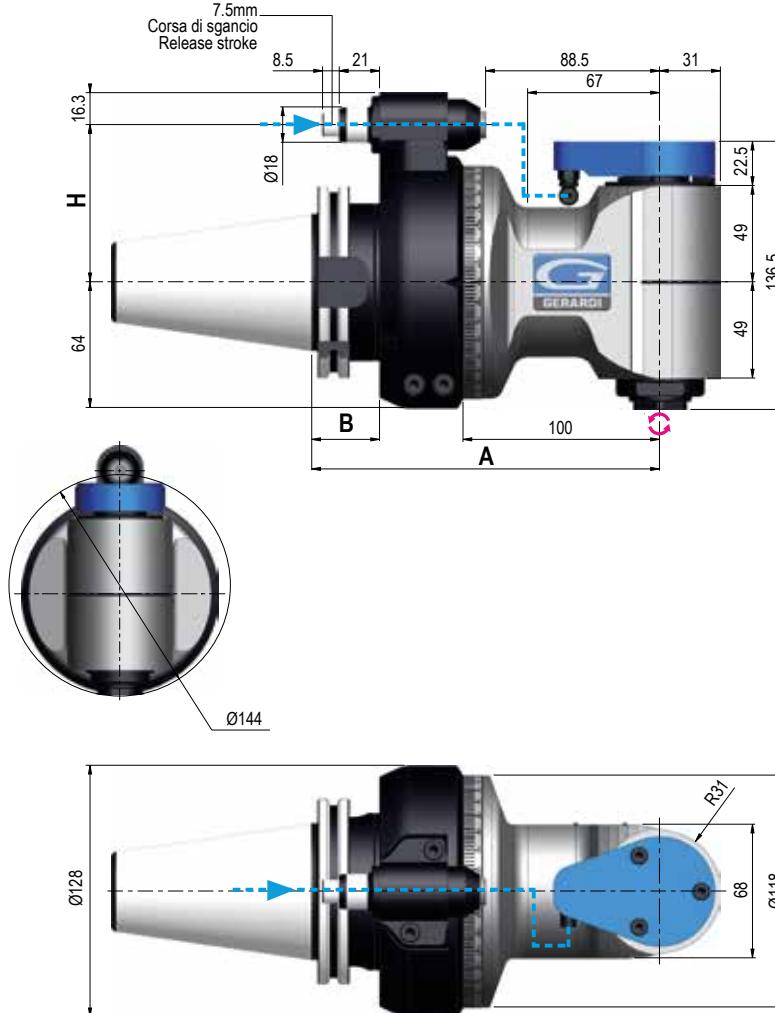
9.F90.160B0

Price:



### Dati tecnici - Technical data

	Ratio 1:1		ISO/BT50 11,5 Kg
	Rpm 5.000		Ø16
	N 1.040		M12
	Nm 46		ER25 WP 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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80 100	C8	80 100	50
Prezzo EXTRA Price €	std	optional	optional	optional optional	optional	on request	optional
H	Standard Ø18 110 - Ø18 110 - Ø28	80 optional	80 optional	80 optional	80 optional	80 optional	80 optional
A	177	177	185	186	181	177	177
B	35	35	43	44	39	-	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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



USCITA  
OUTPUT

HSK 32

optional



USCITA  
OUTPUT

Weldon MAX Ø20

optional

INTERASSE SPECIALE  
SPECIAL PITCH

optional



PINZA  
COLLET

ER20 - Ø1/13

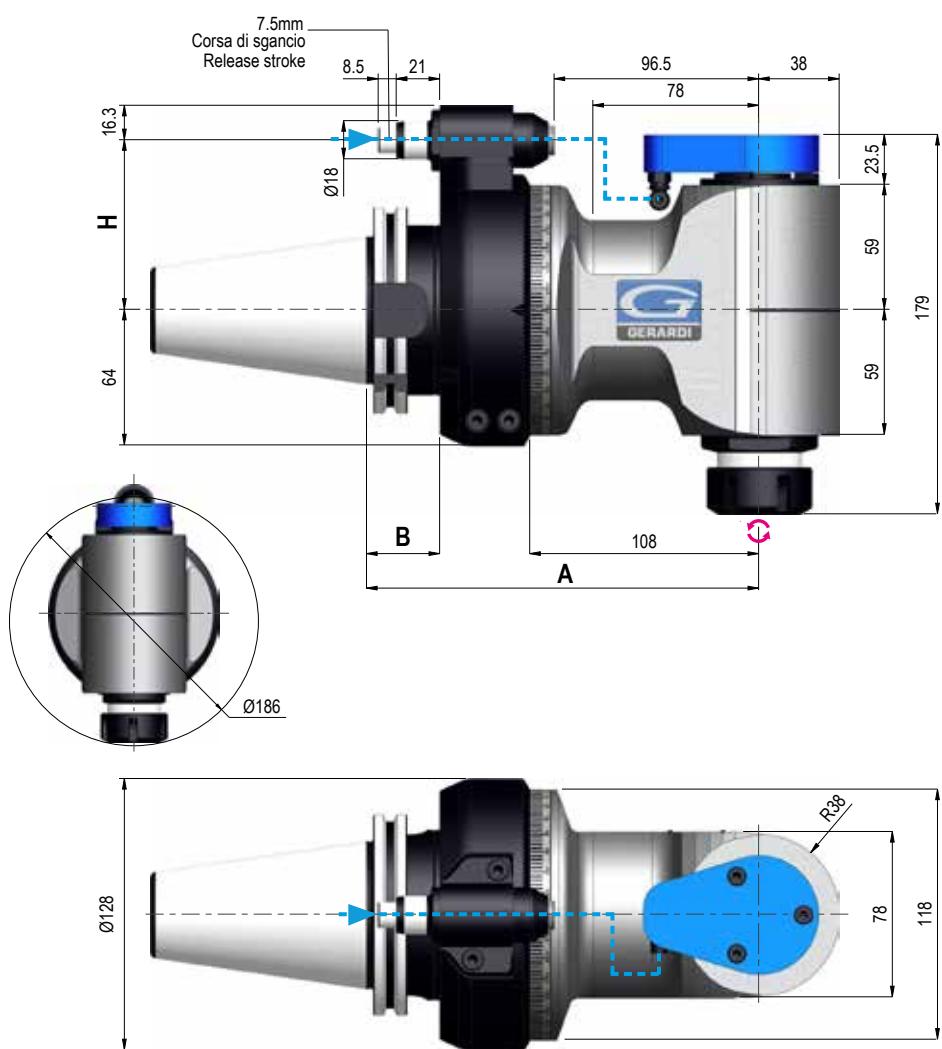
optional



PINZA  
COLLET

ER20 WP - Ø1/13

optional



## F90-20 10BAR

TYPE 2

Code:

9.F90.200B0

Price:



### Dati tecnici - Technical data



Ratio  
1:1



ISO/BT50  
13,4 Kg



Rpm  
3.500



Ø20



N 1.460



M14



Nm 85



ER32 WP  
Ø 2/20



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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80	100	C8	80
Prezzo EXTRA Price €	std	optional	std	optional	optional	On request	optional
H	Standard Ø18	80	80	80	80	80	80
	110 - Ø18	optional	optional	optional	optional	optional	optional
	110 - Ø28						
A	185	185	193	194	189	185	185
B	35	35	43	44	39	-	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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.17 Kg



	USCITA OUTPUT ER 40 optional		USCITA OUTPUT HSK 40 optional		USCITA OUTPUT Weldon MAX Ø25 optional		USCITA OUTPUT Toolholder optional
	INTERASSE SPECIALE SPECIAL PITCH C4 optional		PINZA COLLET ER32 - Ø2/20 optional		PINZA COLLET ER32WP - Ø3/20 optional		



series  
**COOLANT**

**Evolution Line - ATC Series**  
ANGLE HEADS

## F90-S40 70BAR

TYPE 3

Code:

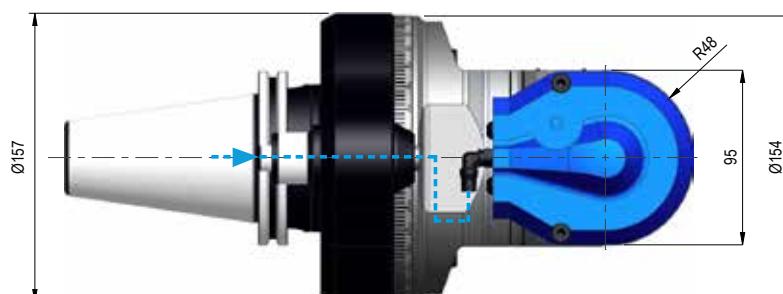
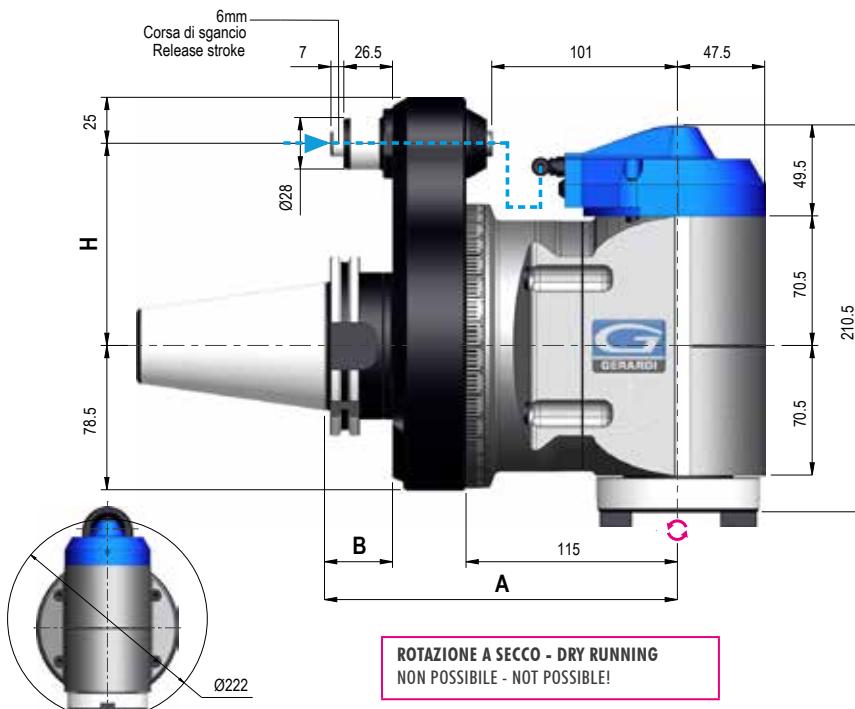
9.F90.S40B0

Price:



### Dati tecnici - Technical data

Ratio 1:1	ISO/BT50 22 Kg
Rpm 2.500	Ø26
N 3.020	M20
Nm 135	ISO40 CAT40 BT40



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.	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80	100	C8	80
Prezzo EXTRA Price €	std	optional	std	optional	optional	<b>On request</b>	optional
H	Standard Ø28	110	110	110	110	110	110
A	192	192	200	201	196	192	192
B	37	37	45	44	39	-	37

### Dotazione Standard Standard Equipment

### Opzioni - Options

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



USCITA  
OUTPUT

C5

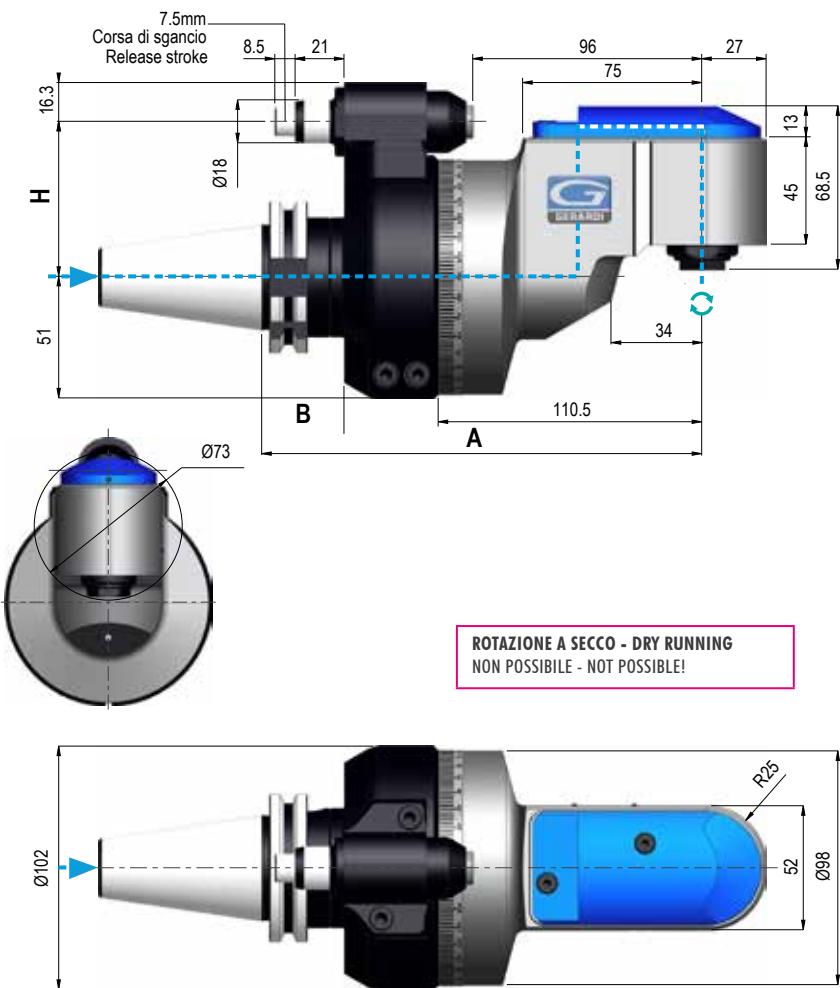
optional

USCITA  
OUTPUT



HSK 63

optional


**FR90-10 70BAR**

TYPE 1

Code:

9.FR9.100B0

Price:


**Dati tecnici - Technical data**


1:1


**ISO/BT40**  
6.2 Kg  
**ISO/BT50**  
8.7 Kg


6.000



Ø10



N 500



M8



Nm 22

ER16 WP  
Ø 1/10

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	KM	ISO DIN 2080	
Grandezza - Size	40	50	40	50	40	63	80	
Prezzo EXTRA Price €	std	<b>120</b>	std	<b>130</b>	std	<b>120</b>	<b>170</b>	
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	
110 - Ø18	optional		optional		optional		optional	
110 - Ø28	optional		optional		optional		optional	
A	184,5		184,5		184,5		188,5	
B	35		35		43		39	

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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.11,5 Kg



SENZA PASSAGGIO REFRIGERANTE  
NO INTERNAL COOLANT



USCITA  
OUTPUT

Weldon MAX Ø10

INTERASSE SPECIAL  
SPECIAL PITCH



optional

optional

PINZA COLLET  
ER16 Ø1/10



PINZA  
COLLET

ER16 WP Ø3/10

optional

optional



series  
**OFFSET**

**Evolution Line - ATC Series**  
ANGLE HEADS

**FR90-13 70BAR**

TYPE 1

Code:

9.FR9.130B0

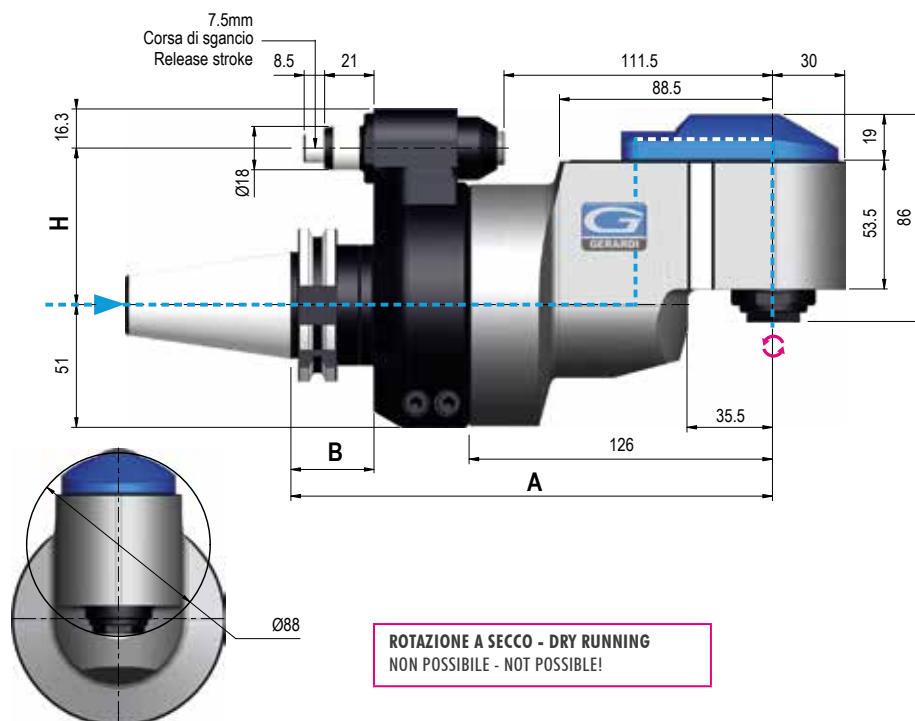
Price:

**NEW**

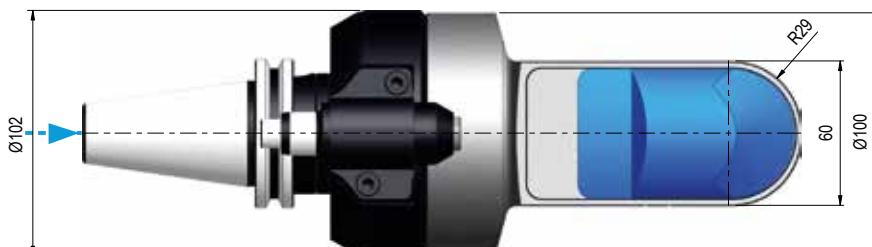


**Dati tecnici - Technical data**

Ratio 1:1	ISO/BT40 11,7 Kg
Rpm 4.500	Ø13
N 570	M10
Nm 40	ER20 WP Ø 1/13



**ROTAZIONE A SECCO - DRY RUNNING  
NON POSSIBILE - NOT POSSIBLE!**



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	KM	ISO DIN 2080
Grandezza - Size	40	50	40	50	40	50	63 80 100
Prezzo EXTRA Price €	std	optional	std	opt.	std	opt.	opt. on request on request
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 80
	110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional
A	200	200	200	209	204	200	200
B	35	35	35	44	39	-	35

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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

SENZA PASSAGGIO REFRIGERANTE  
NO INTERNAL COOLANT

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg



optional

optional

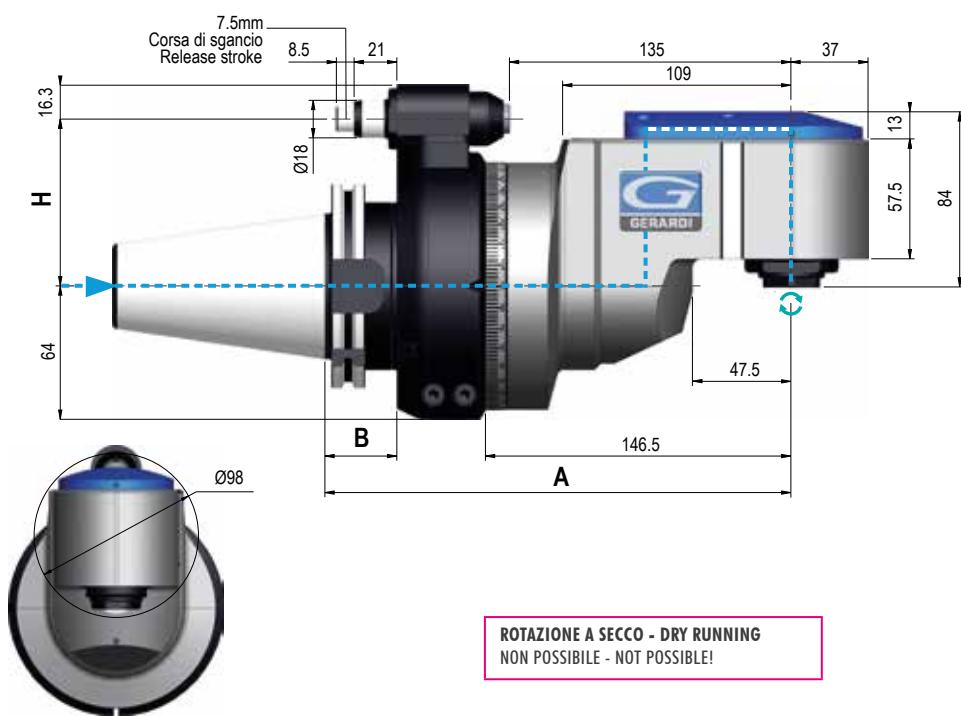
PINZA COLLET



ER20 WP Ø3/13

optional




**FR90-16 70BAR**

TYPE 2

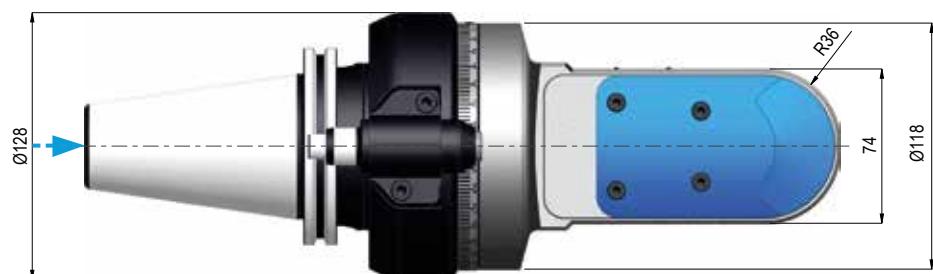
Code:

9.FR9.160B0

Price:

**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT50 11,7 Kg
	Rpm 4.000		Ø16
	N 810		M12
	Nm 80		ER25 WP Ø 1/16



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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80	100	C8	80
Prezzo EXTRA Price €	std	optional	std	optional	optional	on request	optional
H	Standard Ø18	80	80	80	80	80	80
	110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional
A	223,5	223,5	231,5	232,5	227,5	223,5	223,5
B	35	35	43	44	39	-	35

**Dotazione Standard**  
**Standard Equipment****Opzioni - Options**

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

SENZA PASSAGGIO REFRIGERANTE  
NO INTERNAL COOLANT

optional

USCITA  
OUTPUT

Weldon MAX Ø16

USCITA  
OUTPUT

HSK 32



optional

PINZA  
COLLET

ER25 Ø1/16

optional

PINZA  
COLLET

ER25 WP Ø3/16

optional

INTERASSE SPECIAL  
SPECIAL PITCH

optional



series  
**OFFSET**

**Evolution Line - ATC Series**  
ANGLE HEADS

**FR90-20 70BAR**

TYPE 2

Code:

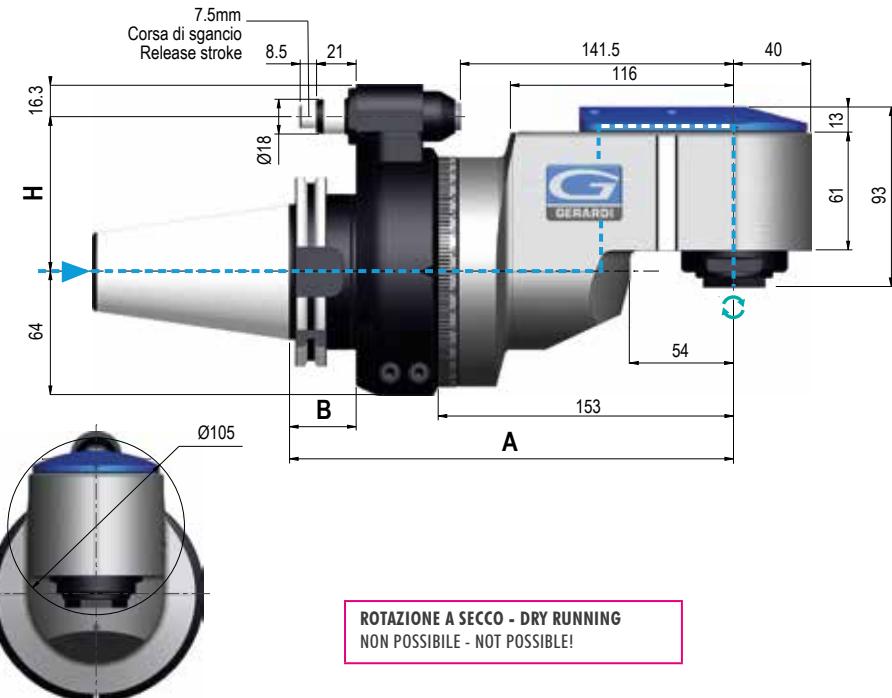
9.FR9.200B0

Price:



**Dati tecnici - Technical data**

	Ratio 1:1		ISO/BT50 14,5 Kg
	Rpm 3.500		Ø20
	N 1.150		M14
	Nm 82		ER32 WP Ø 2/20



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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80 100	C8	80 100	50
Prezzo EXTRA Price €	std	optional	std	optional optional	optional	on request	optional
H Standard Ø18	80	80	80	80	80	80	80
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	230	230	238	239	234	230	230
B	35	35	43	44	39	-	35

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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

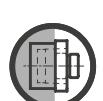


SENZA PASSAGGIO REFRIGERANTE  
NO INTERNAL COOLANT

optional



USCITA  
OUTPUT  
Weldon MAX Ø20



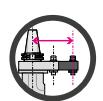
USCITA  
OUTPUT  
HSK 50

optional

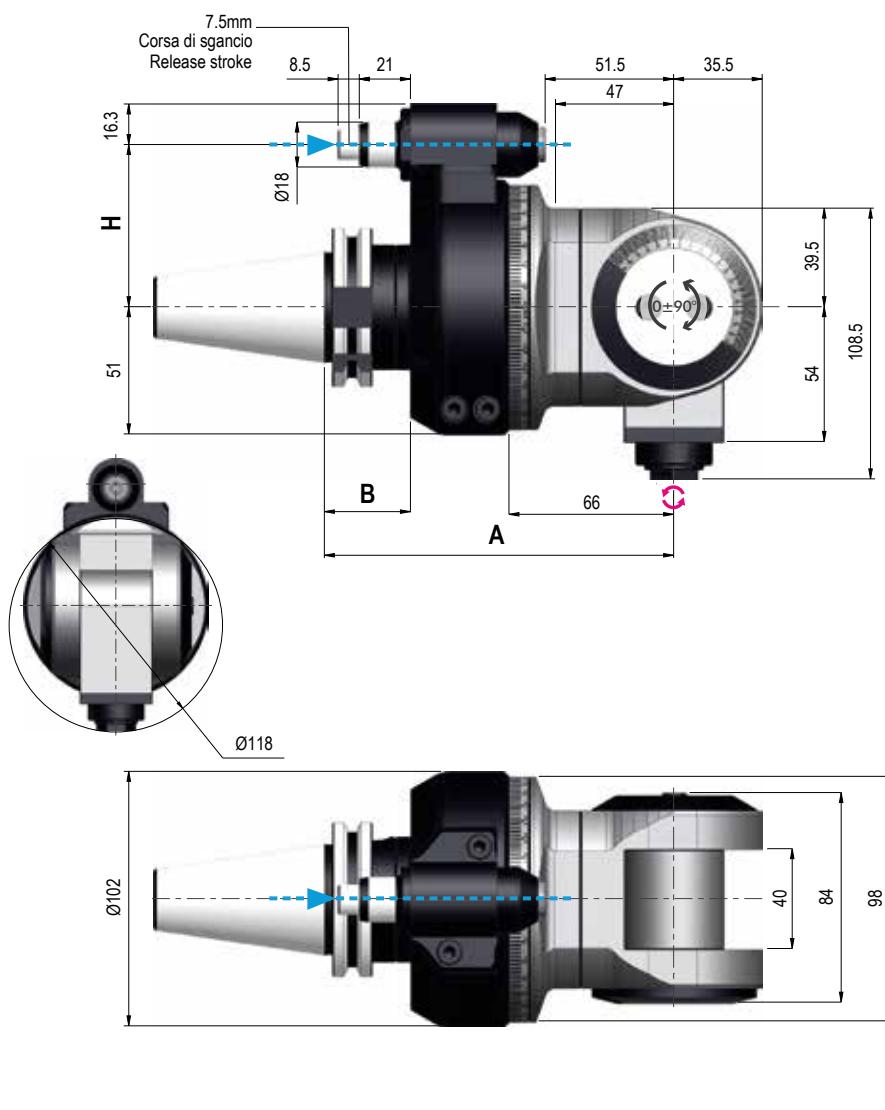
PINZA  
COLLET  
ER32 Ø1/20  
optional



PINZA  
COLLET  
ER32 WP Ø3/20  
optional



INTERASSE SPECIALE  
SPECIAL PITCH  
optional


**FMU-10**

TYPE 1

Code:

9.FMU.10000

Price:


**Dati tecnici - Technical data**
Ratio  
1:1
**ISO/BT40**  
6.3 Kg  
**ISO/BT50**  
8.8 Kg
Rpm  
8.000

Ø10



N 550



M8



Nm 9

ER16  
Ø 1/10

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	KM	ISO DIN 2080
Grandezza - Size	40	50	40	50	40	63	50
Prezzo EXTRA Price €	std	opt.	std	opt.	std	opt.	opt.
H	Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80
	110 - Ø18	optional	optional	optional	optional	optional	optional
	110 - Ø28						
A		140	140	140	148	149	144
B		35	35	35	43	44	39
						140	140
						-	35

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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 &amp; WEIGHT: Max. Kg

USCITA  
OUTPUT

Weldon MAX Ø10

optional

PINZA  
COLLET

ER 16 Ø1/10

optional

INTERASSE SPECIALE  
SPECIAL PITCH

optional

REFR. DAL CONO  
COOLANT BY SHANK

DRY RUNNING NOT POSSIBLE

Max 70 bar

optional



series  
FM U

Evolution Line - ATC Series  
ANGLE HEADS

## FMU-16

TYPE 1

Code:

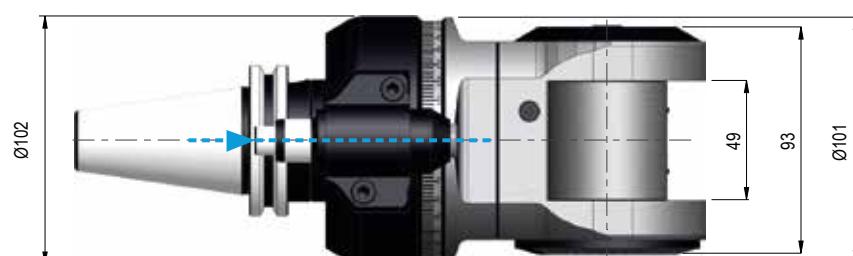
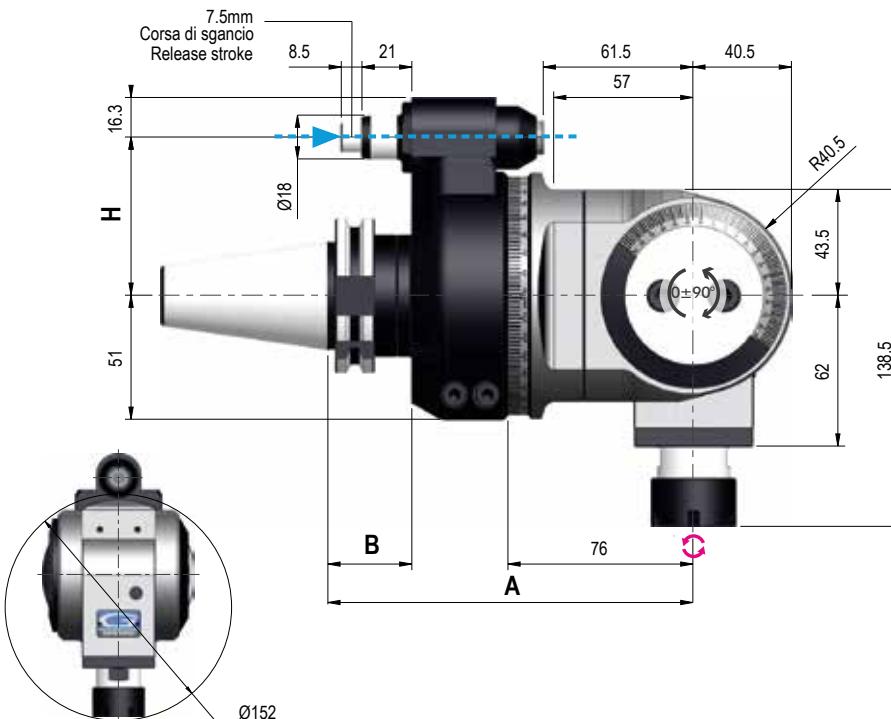
9.FMU.16000

Price:



### Dati tecnici - Technical data

	Ratio 1:1		ISO/BT40 8,2 Kg ISO/BT50 10,5 Kg
	Rpm 6.000		Ø16
	N 630		M12
	Nm 15		ER25 Mini Ø 1/16



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	KM	ISO DIN 2080
Grandezza - Size	40	50	40	50	40	50	40
Prezzo EXTRA Price €	optional	opt.	std	opt.	std	opt.	opt.
H Standard Ø18	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	150	150	150	158	159	154	150
B	35	35	35	43	44	39	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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



USCITA  
OUTPUT

Weldon MAX Ø16

optional

PINZA  
COLLET

ER 16 Ø1/10

optional



INTERASSE SPECIALE  
SPECIAL PITCH

optional

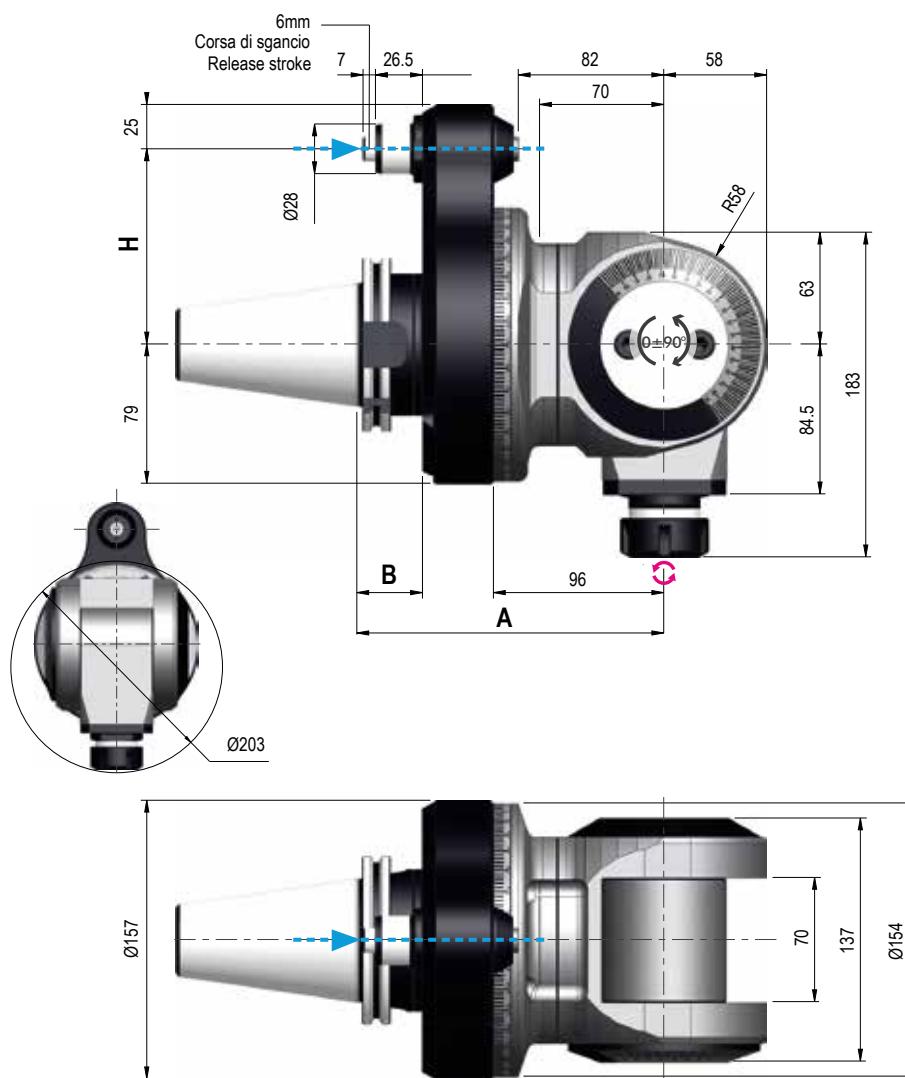


REFR. DAL CONO  
COOLANT BY SHANK

DRY RUNNING NOT POSSIBLE

Max 70 bar

optional


**FMU-20**

TYPE 3

9.FMU.20000

Code:

Price:


**Dati tecnici - Technical data**
Ratio  
1:1ISO/BT50  
22 KgRpm  
4.000

Ø20



N 1.740



M16



Nm 48

ER32 Mini  
Ø 2/20

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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80	100	C8	80
Prezzo EXTRA Price €	std	optional	std	optional	optional	On request	optional
H Standard Ø28	110	110	110	110	110	110	110
A	173	173	181	182	177	173	173
B	37	37	45	44	39	-	37

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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.45 Kg



USCITA OUTPUT  
 ER40  
 on request



USCITA OUTPUT  
 Weldon MAX Ø25  
 optional



USCITA OUTPUT  
 HSK 50  
 optional



PINZA COLLET  
 ER32 Ø2/20  
 optional



PINZA COLLET  
 ER40 Ø3/30  
 optional



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

## F90-7 2U

TYPE 1

Code:

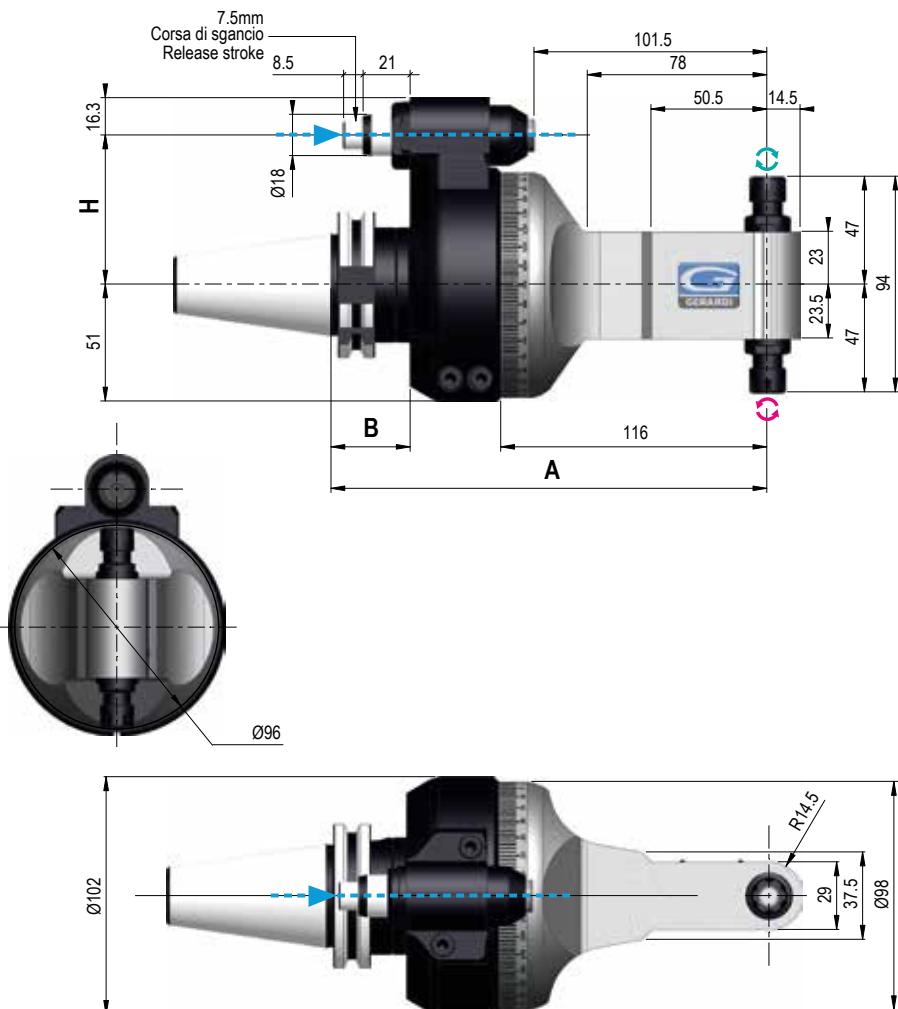
9.F90.072U0

Price:



### Dati tecnici - Technical data

	Ratio 1:1		5 Kg
	Rpm 10.000		Ø7
	N 127		M6
	Nm 6		ER11 Mini Ø1/7



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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	std opt.	opt. opt. opt.	opt. opt. opt.	on request on request	opt. opt.
H Standard Ø18	65 / 80	80	65 / 80	80	65 80	65 80	65 80
	110 - Ø18		optional	optional	optional	optional	optional
	110 - Ø28						
A	190	190	190	199	194	190	190
B	35	35	35	44	39	-	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

### IMBALLO & PESO

PACK & WEIGHT: Max. Kg

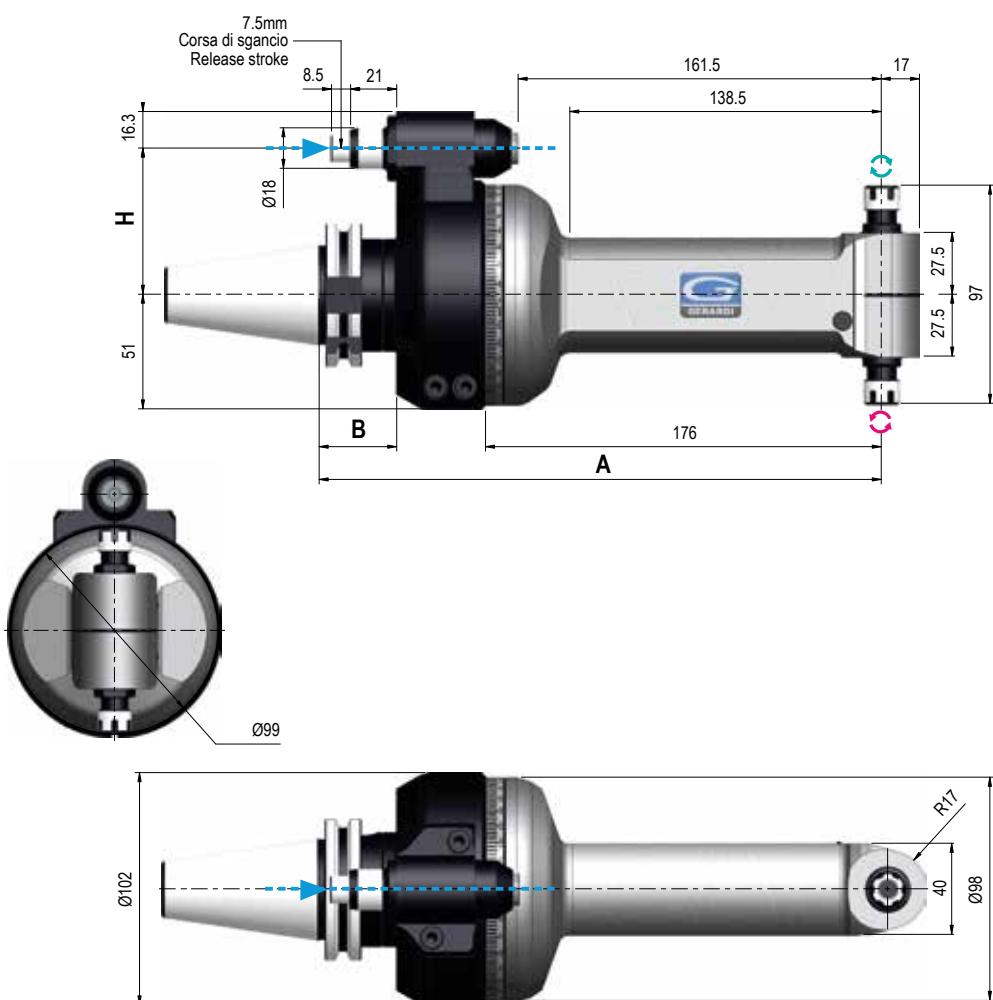


ER11 Ø1/7



optional

optional



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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt. std opt. std opt. opt. opt. opt. opt. on request on request	opt. std opt. std opt. std opt. opt. opt. opt. opt. opt. opt. opt.	opt. std opt. std opt. std opt. opt. opt. opt. opt. opt. opt. opt.	opt. std opt. std opt. std opt. opt. opt. opt. opt. opt. opt. opt.	opt. std opt. std opt. std opt. opt. opt. opt. opt. opt. opt. opt.	opt. std opt. std opt. std opt. opt. opt. opt. opt. opt. opt. opt.	opt. std opt. std opt. std opt. opt. opt. opt. opt. opt. opt.
H	Standard Ø18 110 - 018 110 - 028	65 / 80 80 65 / 80 80 optional optional	65 / 80 80 65 / 80 80 optional optional	65 80 65 80 optional optional	65 / 80 80 65 / 80 80 optional optional	65 80 65 80 optional optional	65 80 65 80 optional optional
A		250	250	250 258	259	254	250
B		35	35	35 43	44	39	- 35

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
 PACK & WEIGHT: Max. Kg



ER11 - Ø1/7



optional

optional

## F90-10 2U

TYPE 1

Code:

9.F90.102U0

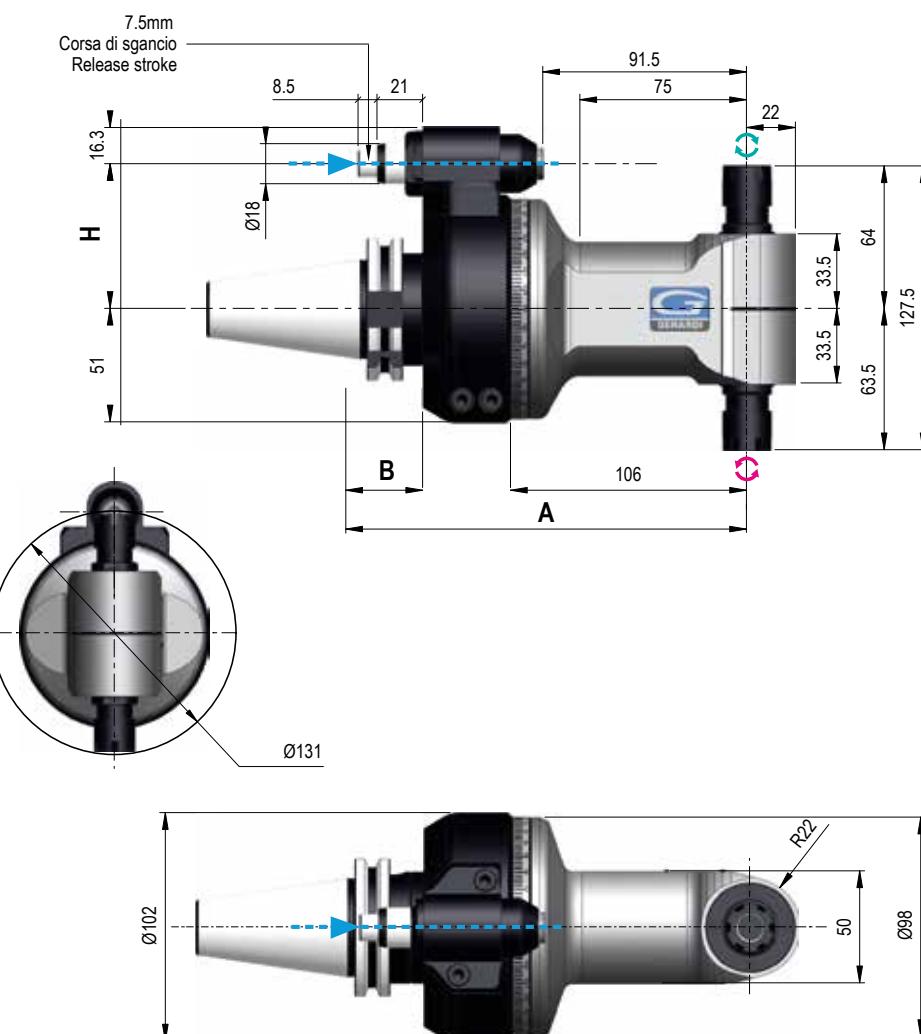
Price:

**NEW**



### Dati tecnici - Technical data

	Ratio 1:1		5,3 Kg
	Rpm 10.000		Ø10
	N 400		M8
	Nm 11		ER16 Mini Ø1/10



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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	std opt.	opt. opt. opt.	opt. opt. opt.	on request on request	opt. opt.
H Standard Ø18	65 / 80	80	65 / 80	80	65 80	65 80	65 80
	110 - Ø18		110 - Ø28		optional optional optional optional optional optional optional optional optional		
A	180	180	180	188	189	184	180
B	35	35	35	43	44	-	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg

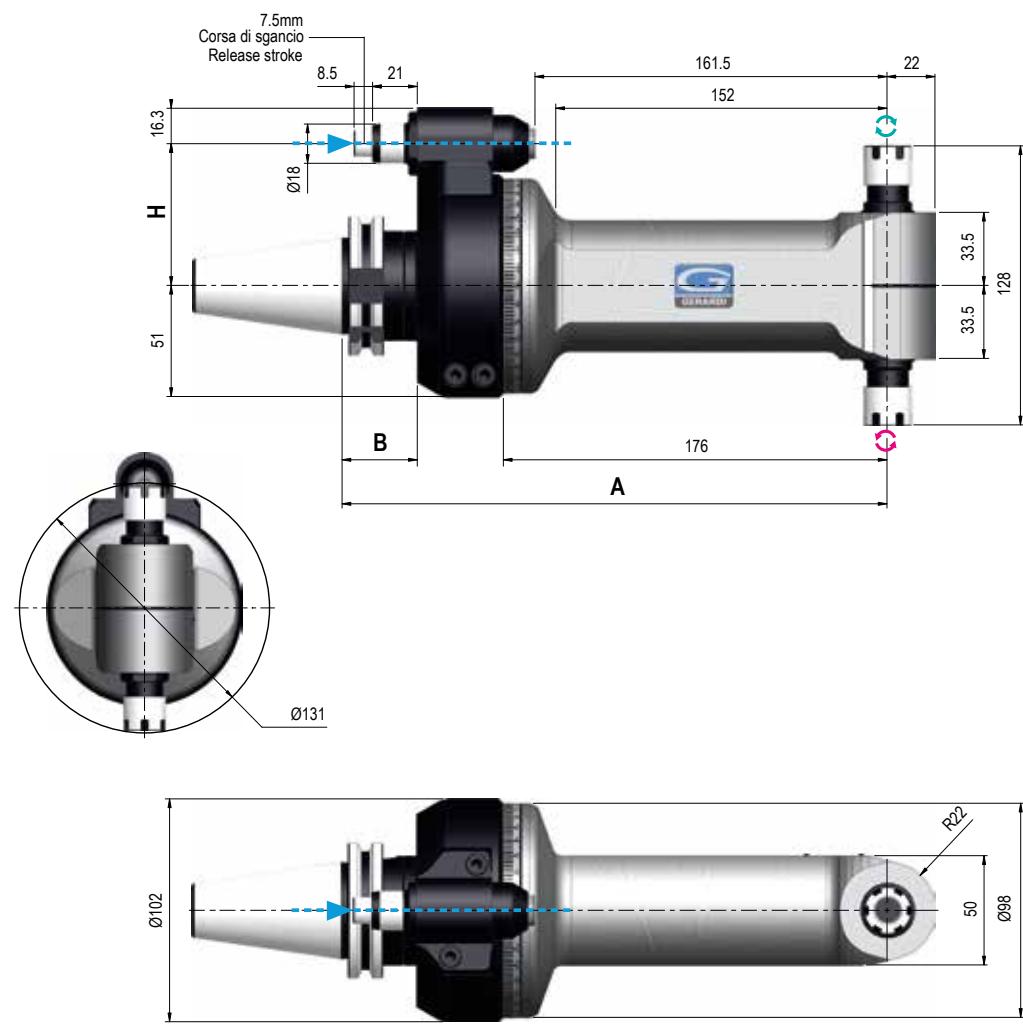


ER16 Ø1/10



optional

optional



## F90-10L 2U

TYPE 1

Code:

9.F90.10L2U0

Price:



### Dati tecnici - Technical data

Ratio  
1:1

6,9 Kg

Rpm  
10.000

Ø10



N 400



M8



Nm 11

ER16 Mini  
Ø 1/10

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			KM			ISO DIN 2080			
Grandezza - Size	30	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50	
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	std	opt.	opt.	opt.	opt.	opt.	opt.	opt.	opt.	on request	on request	opt.	opt.	
H	Standard Ø18	65 / 80	80	65 / 80	80	65	80	65	80	65	80	80	65	80	80	65	80	65	80
	110 - Ø18	optional		optional		optional		optional		optional		optional		optional		optional			
	110 - Ø28																		
A		250		250		250		258		259		254		250		250			
B		35		35		35		43		44		-		34,5		35			

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
 PACK & WEIGHT: Max. Kg



ER16 Ø1/10



optional

optional



series  
**DOUB2E**

**Evolution Line - ATC Series**  
ANGLE HEADS

**F90-16 2U**

TYPE 2

Code:

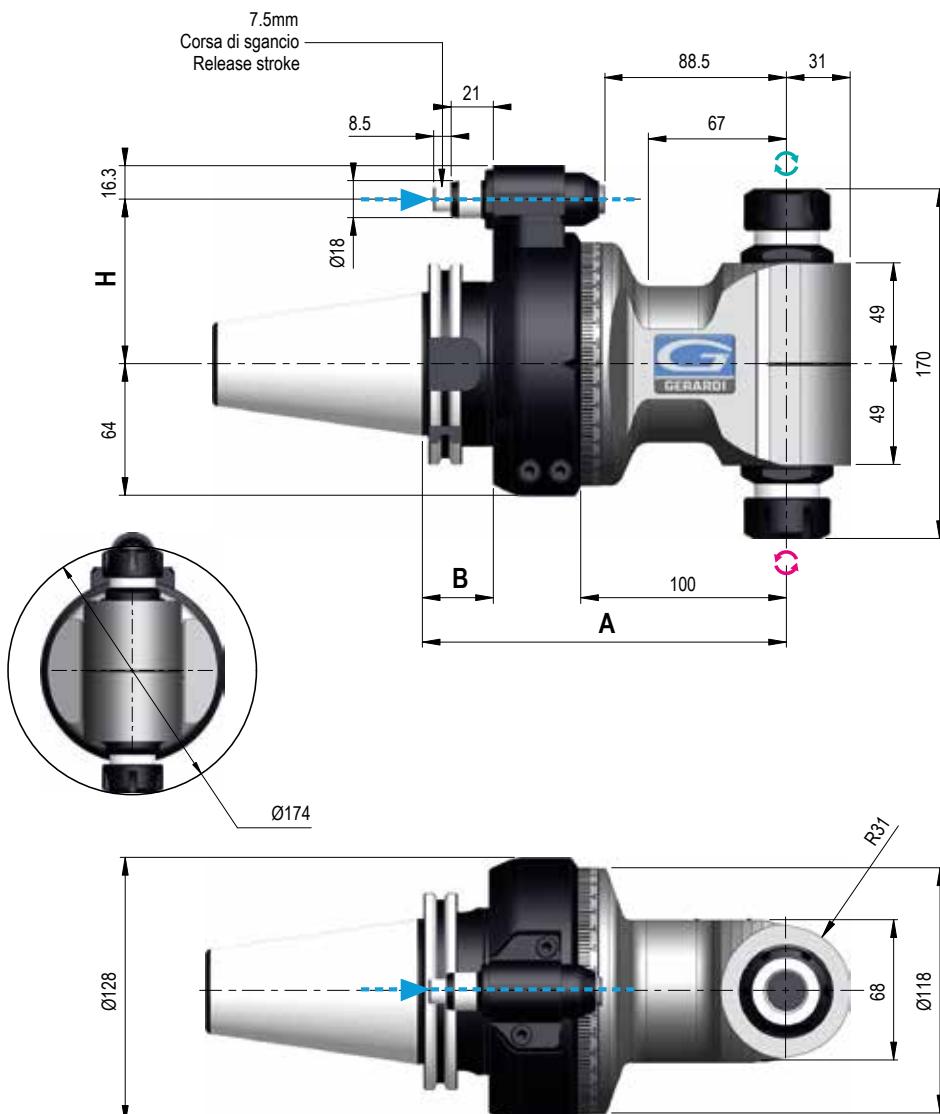
9.F90.162U0

Price:



**Dati tecnici - Technical data**

	Ratio 1:1		11 Kg
	Rpm 5.000		Ø16
	N 1.040		M12
	Nm 46		ER25 Ø 1/16



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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80 100	C8	80 100	50
Prezzo EXTRA Price €	std	optional	std	optional optional	optional	On request	optional
H Standard Ø18	80	80	80	80	80	80	80
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	177	177	185	186	181	177	177
B	35	35	43	44	-	-	35

**Dotazione Standard**  
Standard Equipment

**Opzioni - Options**

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



PINZA  
COLLET

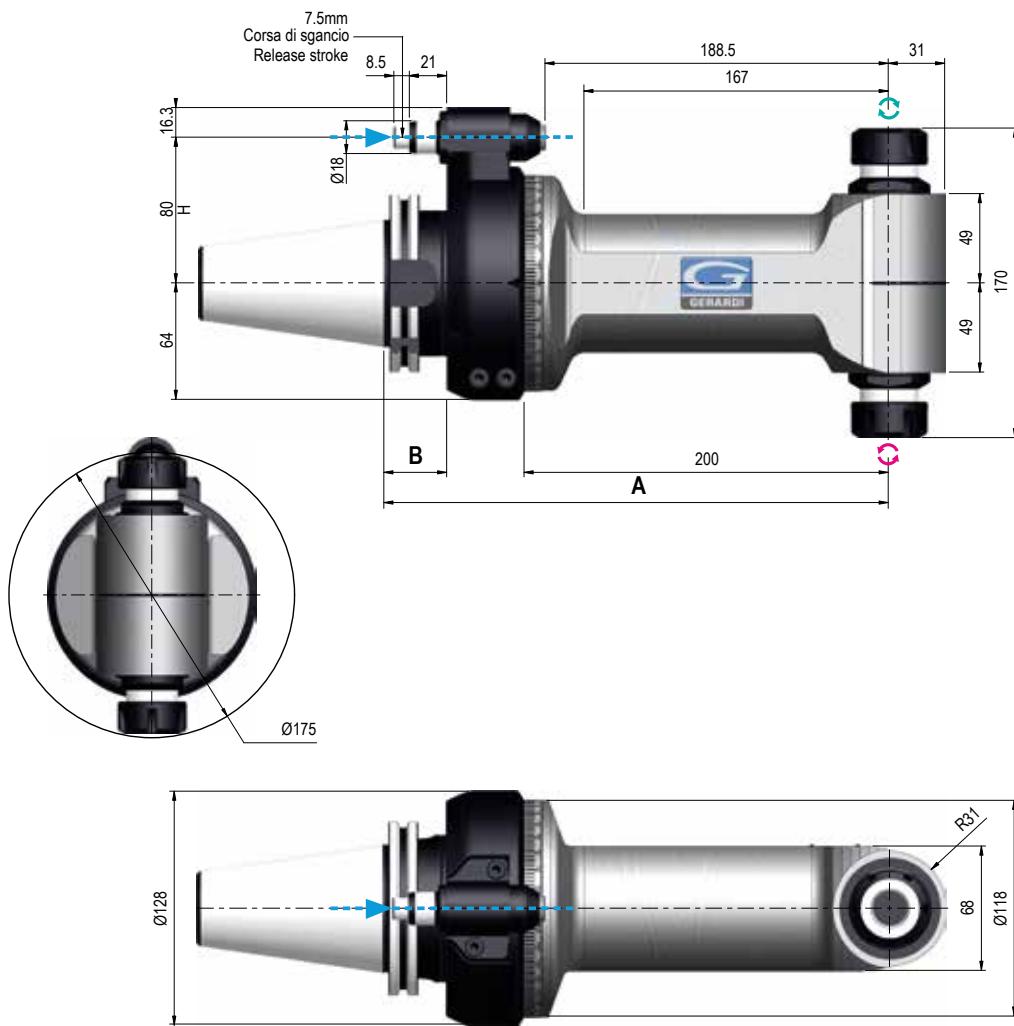
ER 25 Ø1/16

optional

INTERASSE SPECIALE  
SPECIAL PITCH



optional



## F90-16L 2U

TYPE 2

Code:

9.F90.16L2U0

Price:



### Dati tecnici - Technical data



1:1



11 Kg



5.000



Ø16



N 1.040



M12



Nm 46

ER25  
Ø 1/16

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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80	100	C8	80
Prezzo EXTRA Price €	std	optional	std	optional	optional	On request	optional
H Standard Ø18	80	80	80	80	80	80	80
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	277	277	285	286	281	277	277
B	35	35	43	44	-	-	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLETINTERASSE SPECIALE  
SPECIAL PITCH

ER 25 Ø1/16



optional

optional



### IMBALLO & PESO

PACK &amp; WEIGHT: Max. Kg



## F90-20 2U

TYPE 1

Code:

9.F90.202U0

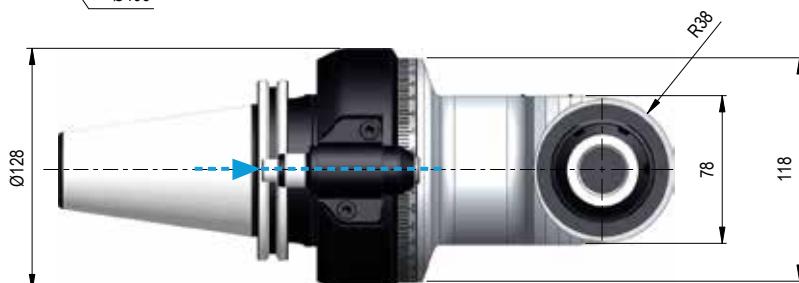
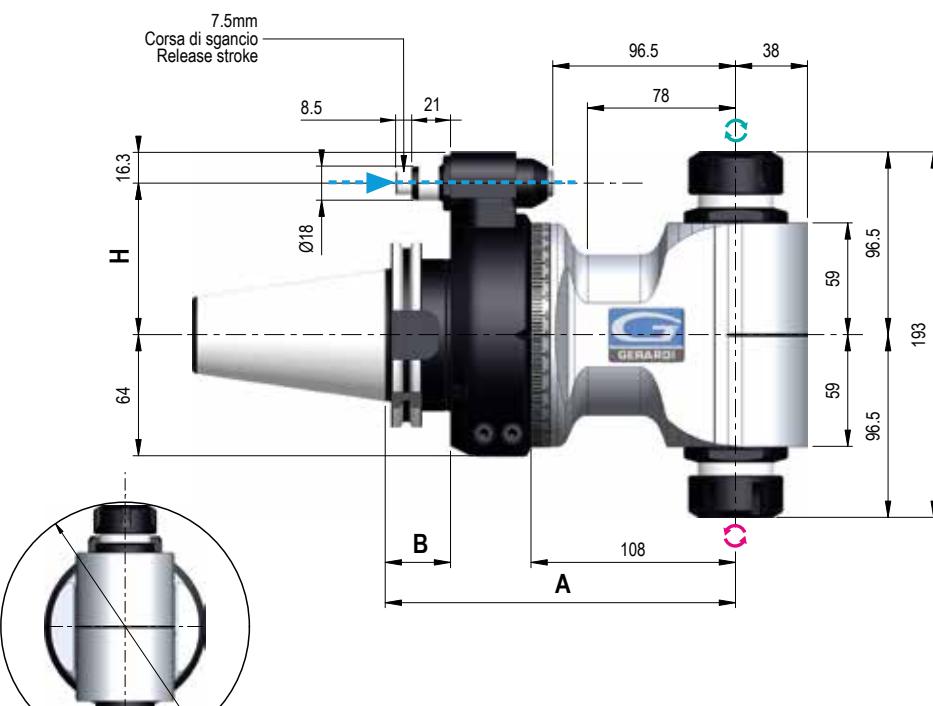
Price:

**NEW**



### Dati tecnici - Technical data

	Ratio 1:1		13,2 Kg
	Rpm 3.500		Ø20
	N 1.460		M14
	Nm 85		ER32 Ø 2/20



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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80 100	C8	80 100	50
Prezzo EXTRA Price €	std	optional	std	optional optional	optional	On request	optional
H Standard Ø18	80	80	80	80	80	80	80
110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	185	185	193	194	189	185	185
B	35	35	43	44	39	-	35

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
PACK & WEIGHT: Max. Kg

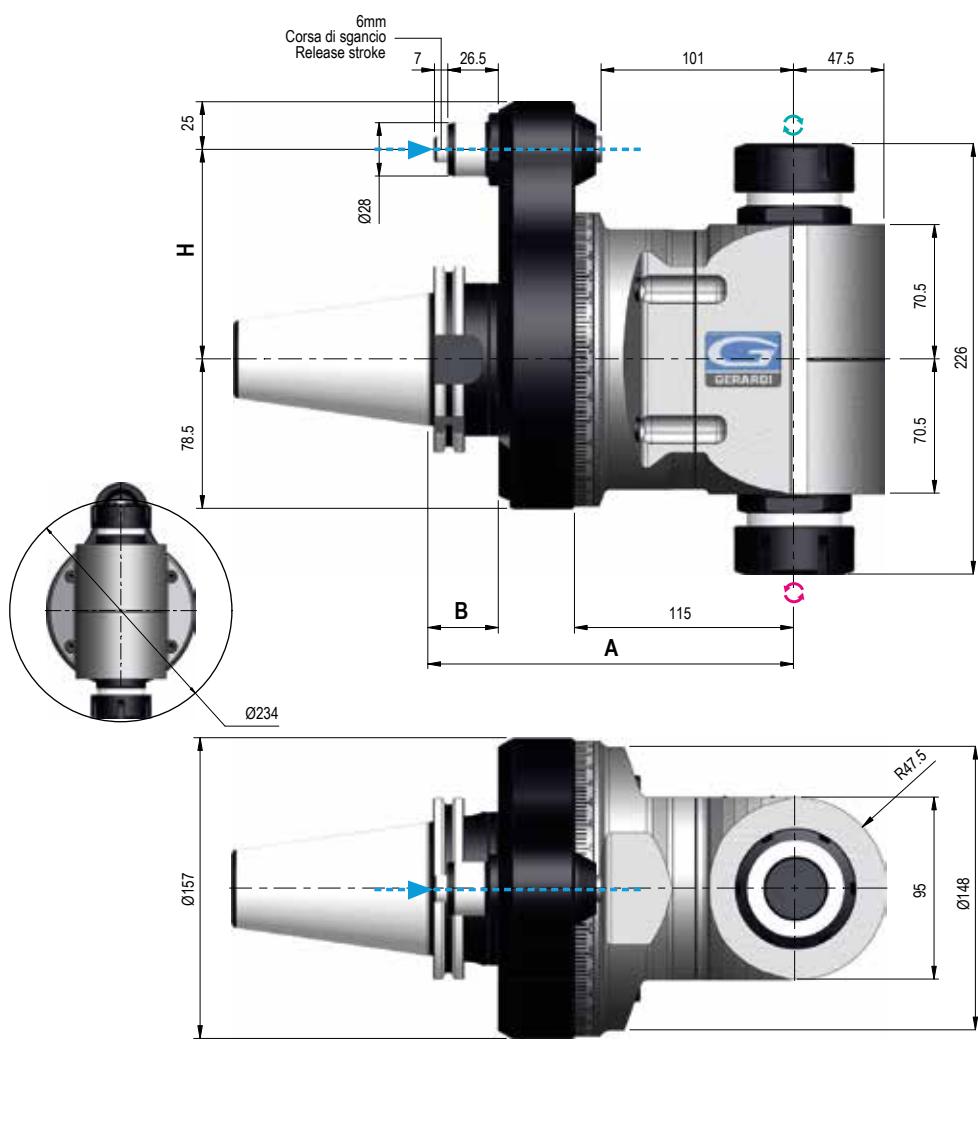


ER 32 Ø2/20



optional

optional



## F90-30 2U

TYPE 3

Code:

9.F90.302U0

Price:



### Dati tecnici - Technical data

	Ratio 1:1		21,7 Kg
	Rpm 2.500		Ø26
	N 3.020		M20
	Nm 135		ER40 Ø 3/30



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	KM	ISO DIN 2080
Grandezza - Size	50	50	50	80 100	C8	80 100	50
Prezzo EXTRA Price €	std	optional	std	optional optional	optional	On request	optional
H	Standard Ø28	110	110	110	110	110	110
A	192	192	200	201	196	192	192
B	37	37	45	44	39	-	37

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLETINTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO**  
 PACK & WEIGHT: Max. Kg



ER 40 Ø3/30



optional

optional

## Esempi applicativi / Applications examples

# Linea Evolution / Evolution Line

### Teste angolari modulari serie MTC (Cambio utensile manuale)

Modular angle heads MTC series (Manual tool change)



**STD 90°**  
series

La serie ideale per fresaure, forature e maschiature a  $\pm 90^\circ$

The ideal series for milling, drilling and tapping at  $\pm 90^\circ$



**STD 90°**  
series

La serie di teste angolari lunghe per lavorazioni più in profondità

Long angle head series for machining at deep positions



La cava a "T", ricavata sulla flangia universale, permette un facile posizionamento del corpo testa sui  $360^\circ$  intorno al suo asse verticale. Un sistema modulare componibile, rende possibile 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  $360^\circ$  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.

# MTC SERIES

## MANUAL TOOL CHANGE

2

### 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 performances, 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 length of the body by adding a spacer. The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.



series  
STD 90°

Evolution Line - MTC Series  
ANGLE HEADS

## F90-16S

TYPE 1

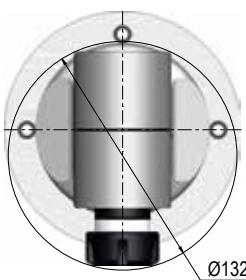
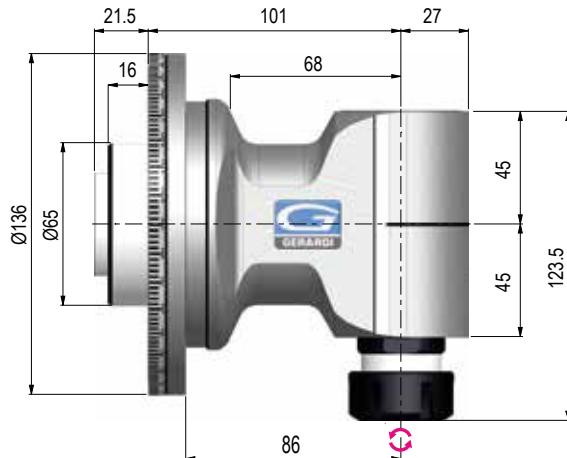
Code:

9.F90.16S01

Price:

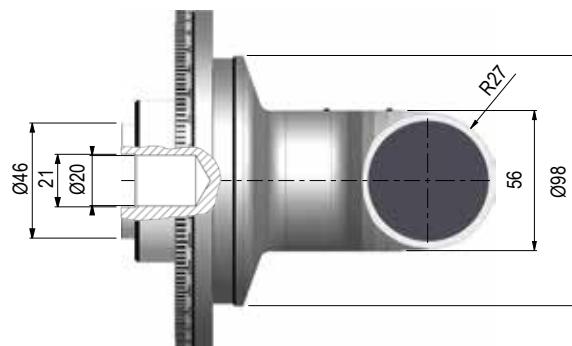


2



### Dati tecnici - Technical data

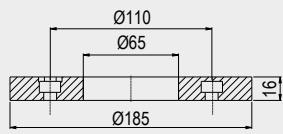
	Ratio 1:1		6 Kg
	Rpm 8.000		Ø16
	N 810		M12
	Nm 27		ER 25 Ø 1/16



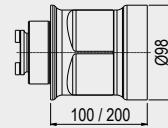
SENSO DI ROTAZIONE CONTRARIO AL MANDRINO - DIRECTION OF ROTATION OPPOSITE TO THE MACHINE SPINDLE

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

Flangia Universale  
Universal Flange  
TIPO - TYPE 1



Prolunga  
Extension  
TIPO - TYPE 1



### Dotazione Standard Standard Equipment

### Opzioni - Options

Valigetta - Flangia universale - Ghiera ER -  
Cone - 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



DOPPIA USCITA  
DOUBLE OUTPUT

ER25 - ER25

optional



USCITA  
OUTPUT

Weldon MAX Ø16

optional



USCITA  
OUTPUT

Toolholder Ø16

optional



PINZA  
COLLET

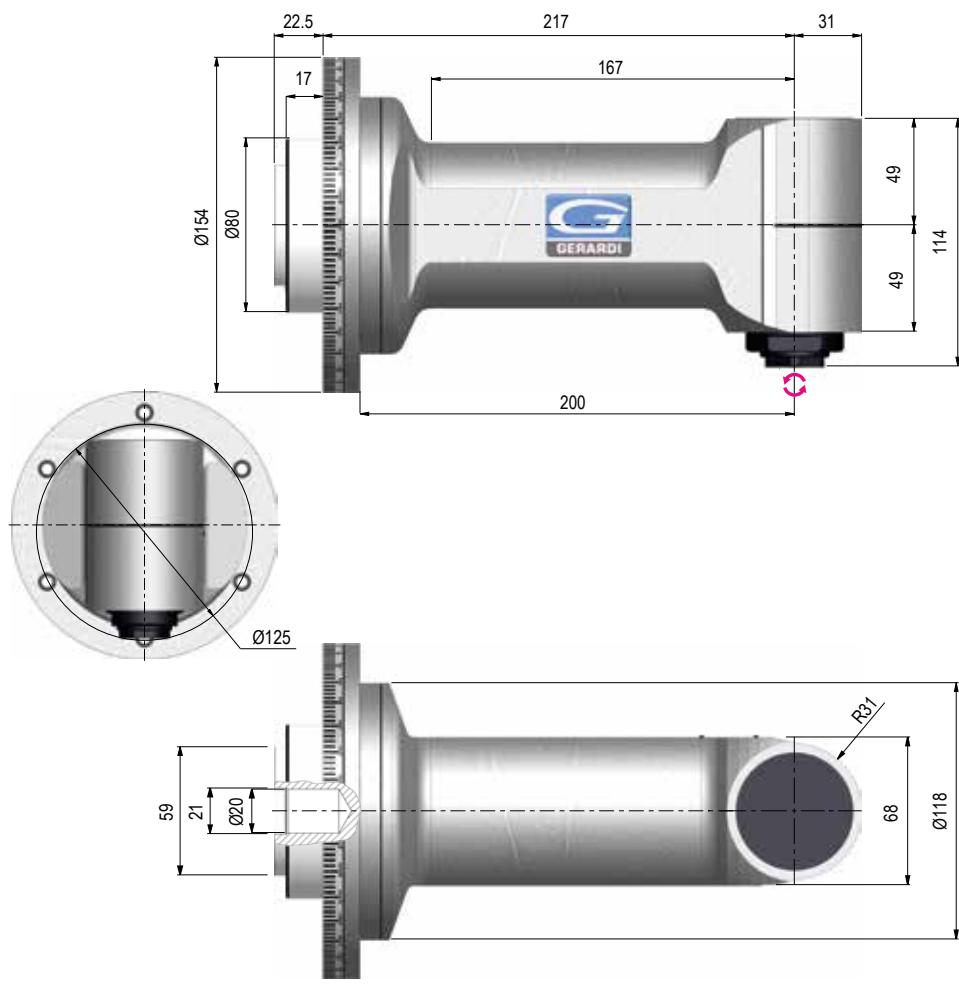
ER25 - Ø1/16

optional



REFR.INT  
INT.COOL

On request


**F90-16L**

TYPE 2

Code:

9.F90.16L01

Price:

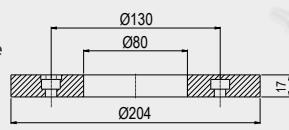
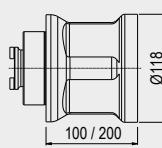

**Dati tecnici - Technical data**

	Ratio 1:1		7,5 Kg
	Rpm 5.000		Ø16
	N 1.040		M12
	Nm 46		ER25 Ø 1/16



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

Coni Shanks																			
Grandezza - Size	30	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	30	40	50
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	std	opt.	on request	on request	std	std	opt.							

**Flangia Universale**  
**Universal Flange**  
**TIPO - TYPE 2**

**Prolunga**  
**Extension**  
**TIPO - TYPE 2**

**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 &amp; WEIGHT: Max. Kg


**Opzioni - Options**
USCITA  
OUTPUT

HSK 32

optional

USCITA  
OUTPUT

Weldon MAX Ø20

optional

USCITA  
OUTPUTToolholder  
Ø16-22

optional

PINZA  
COLLET

ER25 - Ø1/16

optional

REFR.INT  
INT.COOL

On request

DOPPIA USCITA  
DOUBLE OUTPUT

ER25 - ER25

optional

**F90-20**

TYPE 2

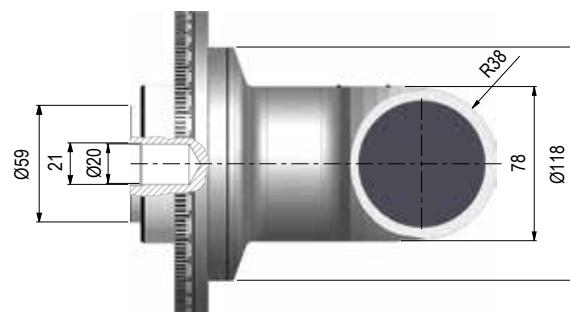
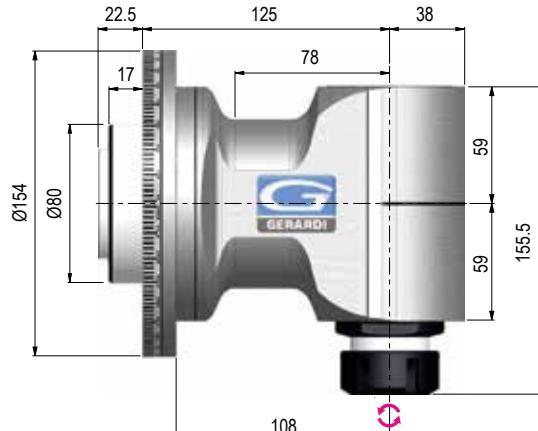
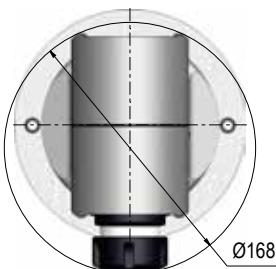
Code:

9.F90.20001

Price:

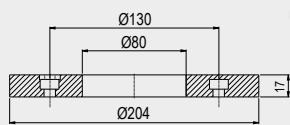
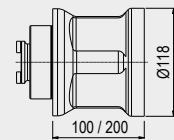
**Dati tecnici - Technical data**

	Ratio 1:1		7,5 Kg
	Rpm 3.500		Ø20
	N 1.460		M14
	Nm 85		ER 32 Ø 2/20



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	KM	ISO DIN 2080
Grandezza - Size	30 40 50	40 50	40 50	63 80 100	C5 C6 C8	63 80 100	30 40 50
Prezzo EXTRA Price €	opt. std opt.	std opt.	std opt.	opt. opt. opt.	opt. opt. opt.	on request on request	std std opt.

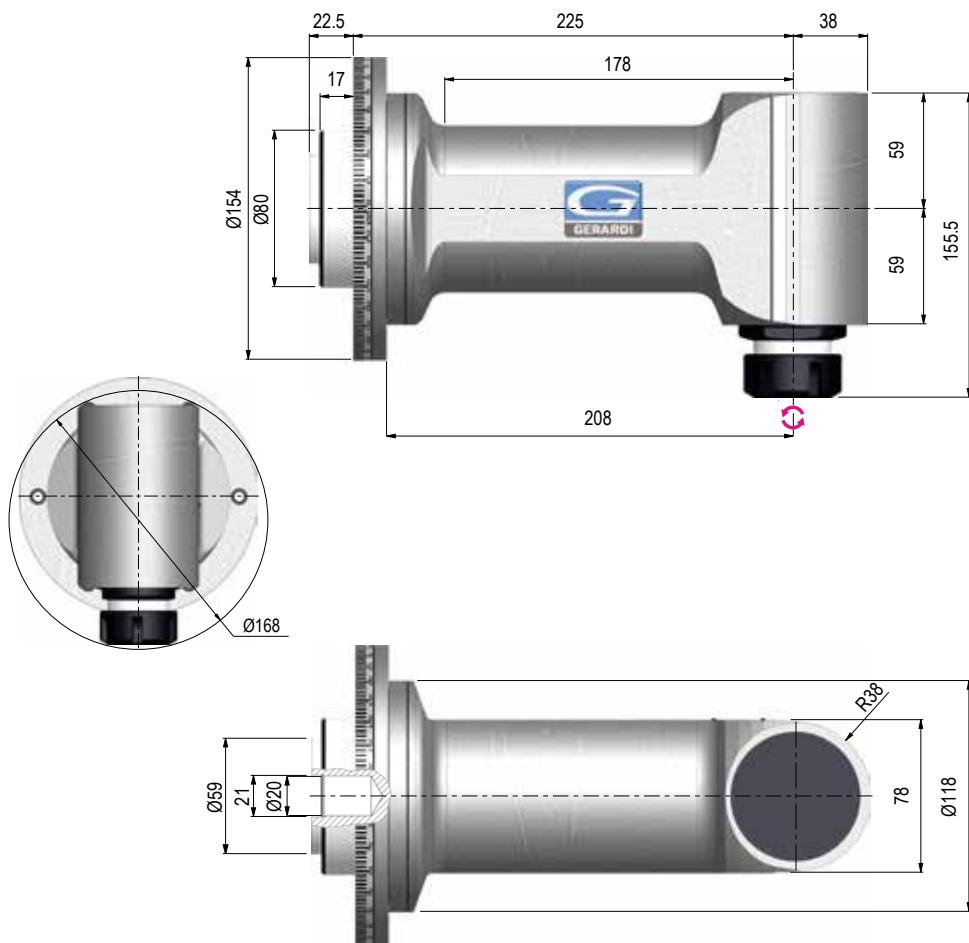
**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 2**

**Prolunga**  
Extension  
**TIPO - TYPE 2**
**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

Valigetta - Flangia universale - Ghiera ER -  
Cone - 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



 optional	 optional	 optional	 optional	 optional
 optional	 optional	 optional	 optional	 optional
 optional	 optional	 optional	 optional	 optional


**F90-20L**

TYPE 2

Code:

9.F90.20L01

Price:

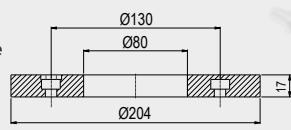
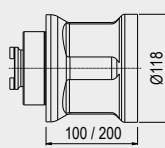

**Dati tecnici - Technical data**

	Ratio 1:1		10,5 Kg
	Rpm 3.500		Ø20
	N 1.460		M14
	Nm 85		ER32 Ø 2/20



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	KM	ISO DIN 2080
Grandezza - Size	30    40    50	40    50	40    50	63    80    100	C5    C6    C8	63    80    100	30    40    50
Prezzo EXTRA Price €	opt.	std	opt.	std	opt.	opt.	std

**Flangia Universale**  
**Universal Flange**  
**TIPO - TYPE 2**

**Prolunga**  
**Extension**  
**TIPO - TYPE 2**

**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**

	DOPPIA USCITA DOUBLE OUTPUT ER32 - ER32 optional		REFR. INTERNO INT. COOLANT On req.		USCITA OUTPUT Weldon MAX Ø25 std		USCITA OUTPUT Toolholder Ø22-27-32 optional		USCITA OUTPUT C4 optional
	USCITA OUTPUT ER40 optional		USCITA OUTPUT ISO-CAT-BT 30 optional		USCITA OUTPUT HSK 40 optional		PINZA COLLET ER32 - Ø2/20 optional		

**F90-S40**

TYPE 3

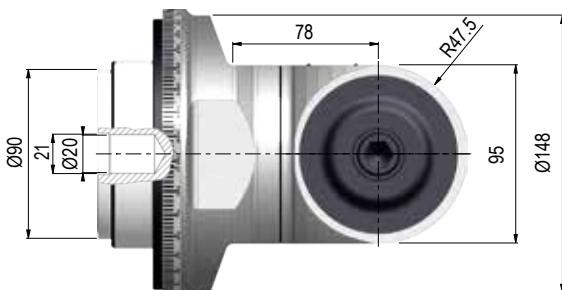
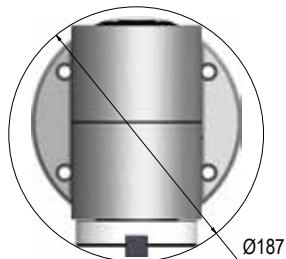
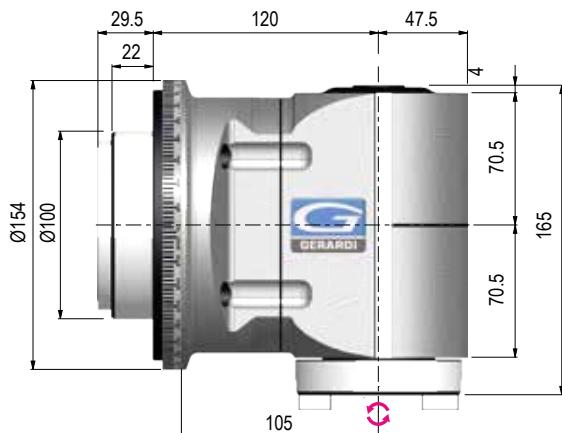
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9.F90.S4001

Price:



2

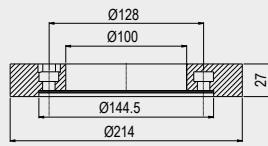
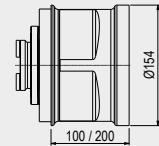
**Dati tecnici - Technical data**

	Ratio 1:1		21 Kg
	Rpm 2.500		Ø26
	N 3.020		M20
	Nm 135		ISO40 CAT40 BT40



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	KM	ISO DIN 2080
Grandezza - Size	40	50	40	50	40	50	63    80    100    C5    C6    C8    63    80    100    40    50
Prezzo EXTRA Price €	std	opt.	std	opt.	std	opt.	opt.    on request    on request    std    opt.

**Flangia Universale**  
Universal Flange  
**TIPO - TYPE 3**

**Prolunga**  
Extension  
**TIPO - TYPE 3**
**Dotazione Standard**  
**Standard Equipment**

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

**IMBALLO & PESO:**  
PACK & WEIGHT: Max. Kg
**Opzioni - Options**

	USCITA OUTPUT ER40 (F90-30) std		USCITA OUTPUT HSK 63 optional		USCITA OUTPUT C5 optional
	PINZA COLLET ER40 (F90-30) optional		REFR.INT INT.COOL On request		DOPPIA USCITA DOUBLE OUTPUT ER40 - ER40 optional

# ACCESSORI ATC & MTC

## ATC & MTC ACCESSORIES

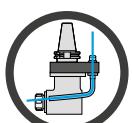
2



# OPZIONE REFRIGERANTE SERIE ATC

## INTERNAL COOLANT OPTION ATC SERIES

**Opzione B**  
B option

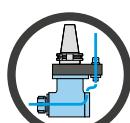


**10bar**



**Perno »**  
Positioning Pin »

**Passaggio refrigerante 10bar  
Dal perno.**  
Coolant 10bar through the positioning pin.



**10bar**

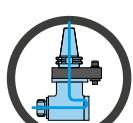


**Perno » Distributore » Utensile**  
Positioning Pin » Rotating Distributor» Tool

**Passaggio refrigerante interno  
10bar dal perno e attraverso il  
distributore rotante.**  
Internal coolant 10bar by the positioning pin and through the distributor

**ROTAZIONE A SECCO - DRY RUNNING  
POSSIBILE - POSSIBLE**

**Opzione RI**  
RI option



**70bar**



**Cono » Distributore » Utensile**  
Shank » Rotating Distributor » Tool

**Passaggio refrigerante interno  
70bar dal cono e attraverso il  
distributore rotante**  
Internal coolant 40bar by the shank and through the distributor

**ROTAZIONE A SECCO - DRY RUNNING  
NON POSSIBILE  
NOT POSSIBLE**

**Opzione Re-Cool**  
Re-Cool option



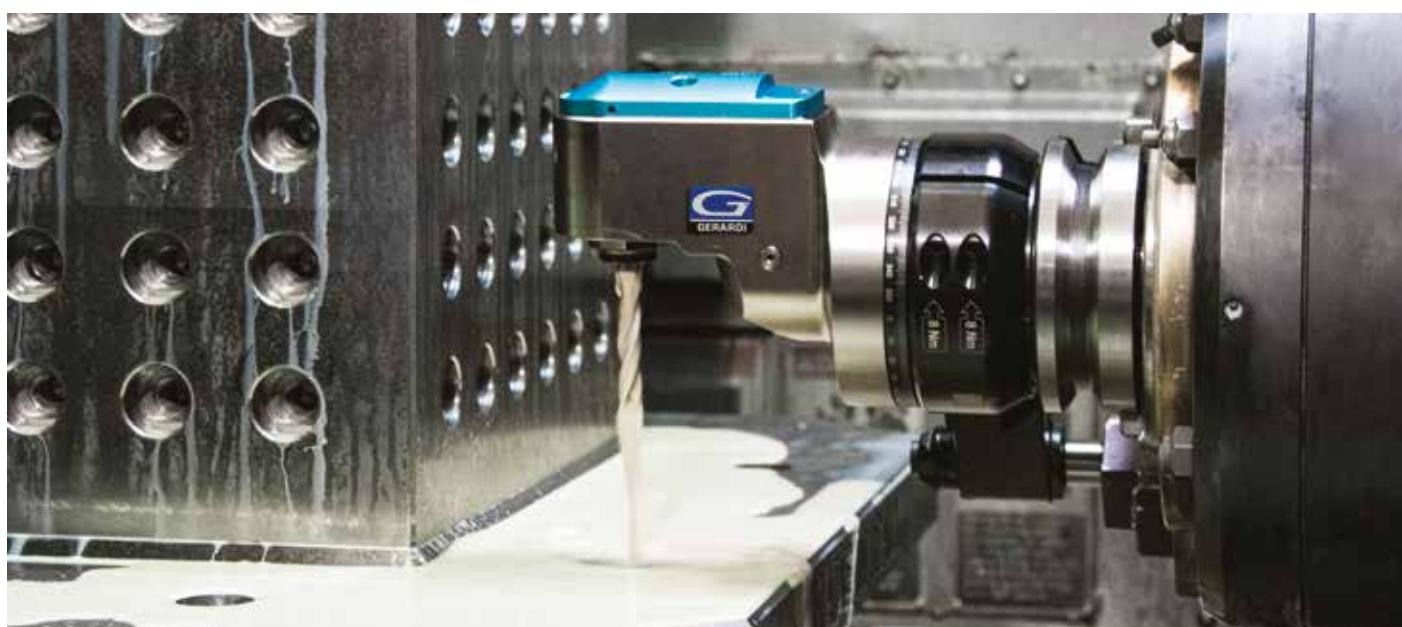
**10bar**



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

**Passaggio refrigerante interno  
per mezzo della ghiera RE-COOL**  
Internal coolant by the special nut  
RE COOL nut

**PAG. 2.69 - PAG. 2.69**

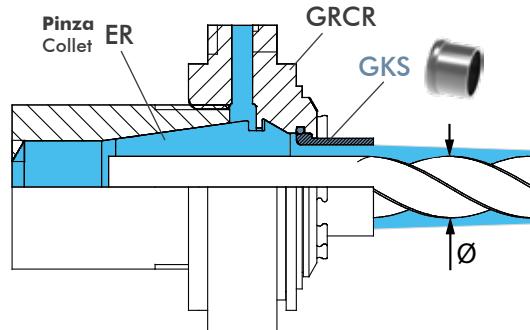
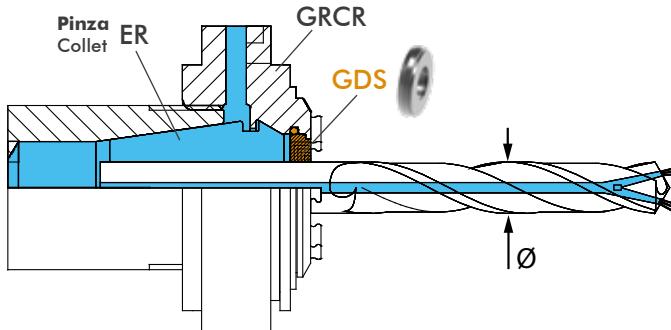


**Testa angolare FR90-10B 70bar in lavorazione**  
Angle heads FR90-10B 70bar during works

## 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.



**GCR**  
(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				
F90-10 / 10L FMU-10	ER16	GRCR16		GDS16		GKS16
		9.GR.CR16		9.GD.S16/...		9.GK.S16/...
F90-13 / 13L FL90-13	ER20	GRCR20		GDS20		GKS20
		9.GR.CR20		9.GD.S20/...		9.GK.S20
F90-16 / 16L / 16S FL90-16 / FMU-16	ER25	GRCR25		GDS 25		GKS 25
		9.GR.CR25		9.GD.S25/...		9.GK.S25
F90-20 / 20L / 20S FMU-20	ER32	GRCR32		GDS32		GKS32
		9.GR.CR32		9.GD.S32/...		9.GK.S32
F90-S40	ER40	GRCR40		GDS40		CH-16AX
		9.GR.CR40		9.GD.S40/...		9.CH.16AX
						CH-20AX
						9.OH.20AX
						CH-25AX
						9.CH.25AX
						CH-32AX
						9.OH.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 ■ **GCR:** 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 diritti 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.

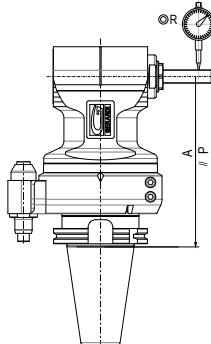
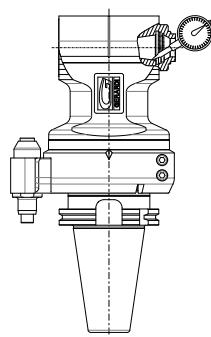
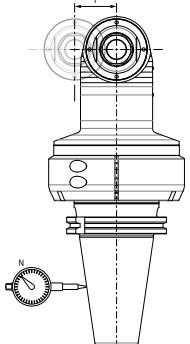
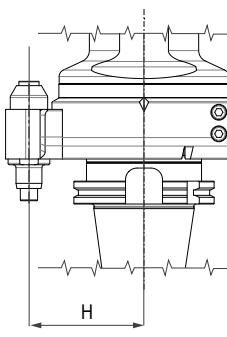
The supplied hose and fittings are designed and tested for maximum coolant pressure of 58 bar / 840 PSI.  
Higher coolant pressure on request.

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

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

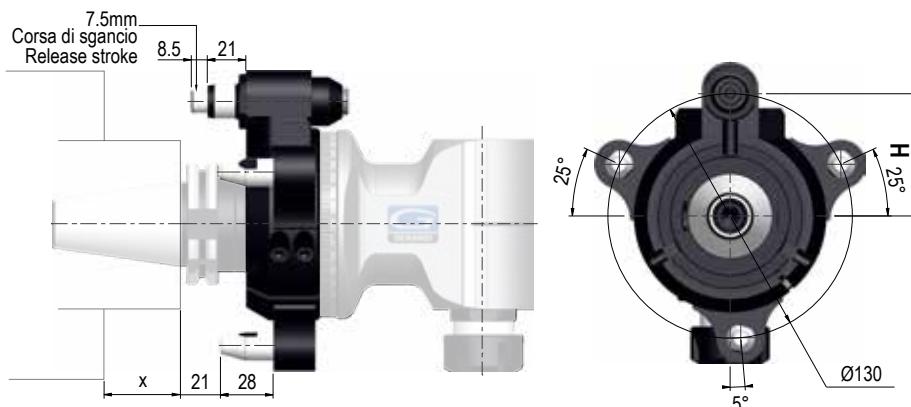
TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error	TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error
<b>Quota e parallelismo da filo cono ad asse principale.</b> <b>Oscillazione asse utensile.</b>  Height and parallelism from gauge line to main axis. Runout cutter axis.		<b>Ammesso</b> Allowed $A = \pm 0,03$ $R = \pm 0,025$ $P = \pm 0,015/100$  <b>Rilevato</b> Checked  $A = +0,010$  $R = 0,015$  $P = 0,012/100$	<b>Oscillazione mandrino porta utensile.</b>  Runout in cutter spindle.		<b>Ammesso</b> Allowed 0,010
<b>Concentricità tra cono e asse principale.</b> <b>Disassamento tra gli assi principali.</b>  Concentricity between shank and main axis. offset between main axis		<b>Ammesso</b> Allowed $F = \pm 0,02$ $N = \pm 0,02$  <b>Rilevato</b> Checked  $F = 0,010$  $N = 0,016$	<b>Interasse cono-perno di posizionamento.</b>  Pitch shank-positioning pin.		<b>Ammesso</b> Allowed 0,010  <b>Rilevato</b> Checked  $-0,010$

### RODAGGIO TESTA - RUN-IN

RPM in entrata RPM	Durata Time	Temperatura Ambiente Room Temperature	Temperatura 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				

<b>Revisioni - Revisions</b>	<b>Timbro - Stamp</b>	<b>Data - Date</b>
		<b>Firma - Signature</b>

# SISTEMA ANTIROTANTE MULTIPONT MULTIPOINT ANTIROTATION SYSTEM



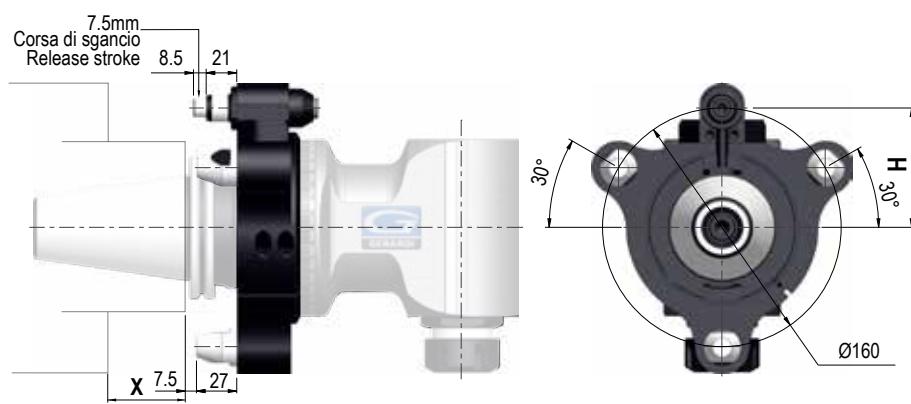
## TYPE 1

Code:

9.GAT1./...\*

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

Coni Shank	SK 40	BT 40	BT 50	Solo flangia Only Flange**
				on request

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


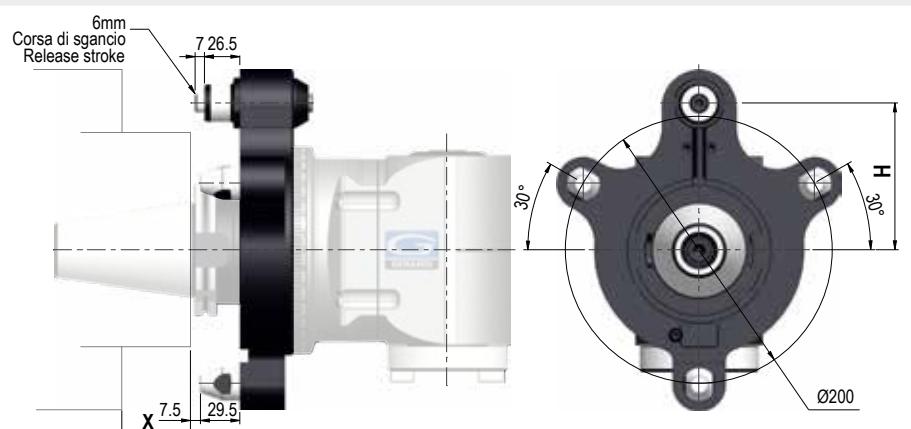
## TYPE 2

Code:

9.GAT2./...\*

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

Coni Shank	SK 50	BT 50	CAT 50	HSK 80	Solo flangia Only Flange**
					on request

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


## TYPE 3

Code:

9.GAT3./...\*

**Teste ad angolo con interasse H=110**  
 Angle heads with centre distance H=100

Coni Shank	SK 50	BT 50	Solo flangia 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:

- Garantisce una rigidità superiore allo standard
- Pode 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 ESEMPIO : Flangia **MULTIPOINT** per testa tipo3 con cono SK50 = 9.GAT3.SK50  
 In case of order specify shank type and size. EXAMPLE : MULTIPOINT flange for angle head type3 with SK50 shank = 9.GAT3.SK50

## ESEMPIO di MONTAGGIO SERIE ATC ATC SERIES MOUNTING EXAMPLE

**PER UN CORRETO 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

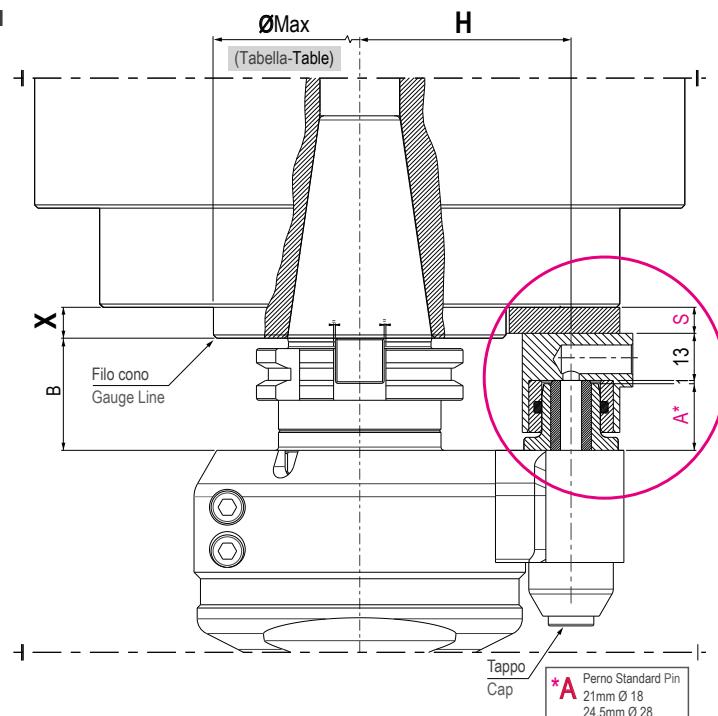
- For Gerardi items, please indicate the type of Angle Head, the H dimension, the pin diameter and height.
- For non-Gerardi items, please send us the stop-block and the machine spindle drawings in order to design the right pin. If possible, we suggest you to use Gerardi standard stop block, taking off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

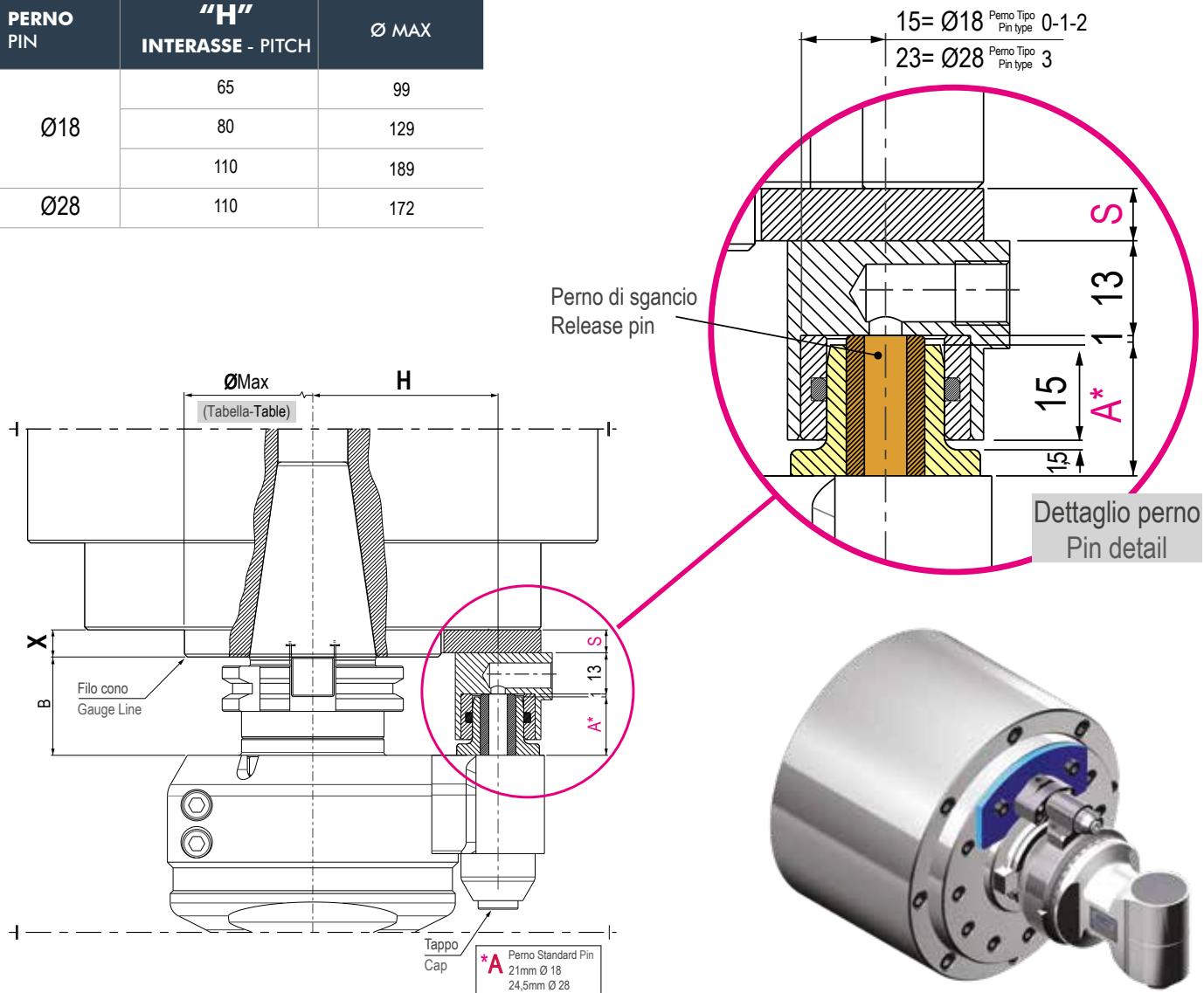
## ATC SERIES MOUNTING EXAMPLE

**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	$\varnothing$ MAX
$\varnothing$ 18	65	99
	80	129
	110	189
$\varnothing$ 28	110	172



### ATTENZIONE - ATTENTION

Il distanziatore 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.

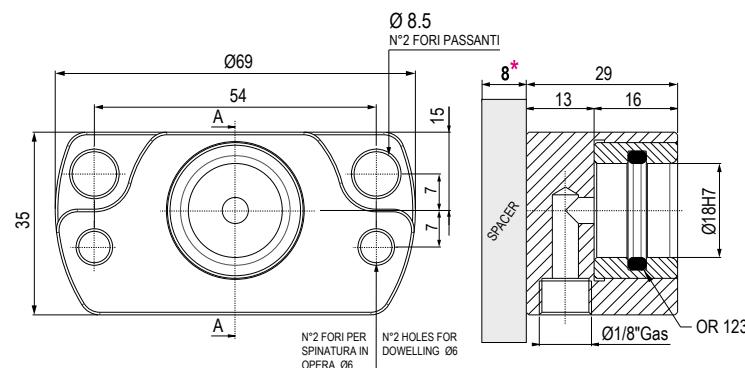
## STOP-BLOCK Standard



**Ø18**

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.INDEX.18	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2	



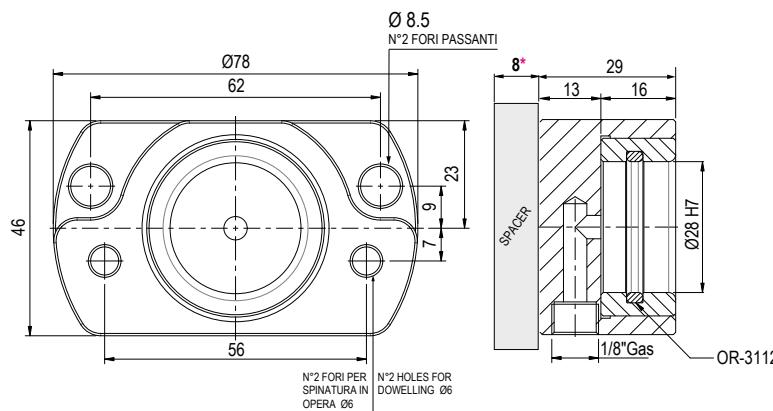
2



**Ø28**

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.INDEX.28	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2	



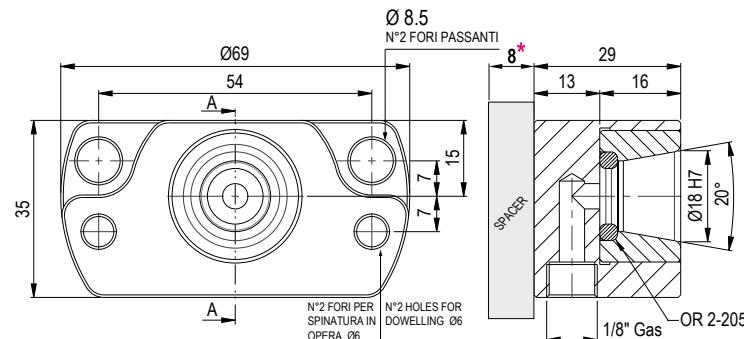
## STOP-BLOCK Conico - Conical



**Ø18**

Con bussola temprata - with hardened bushing

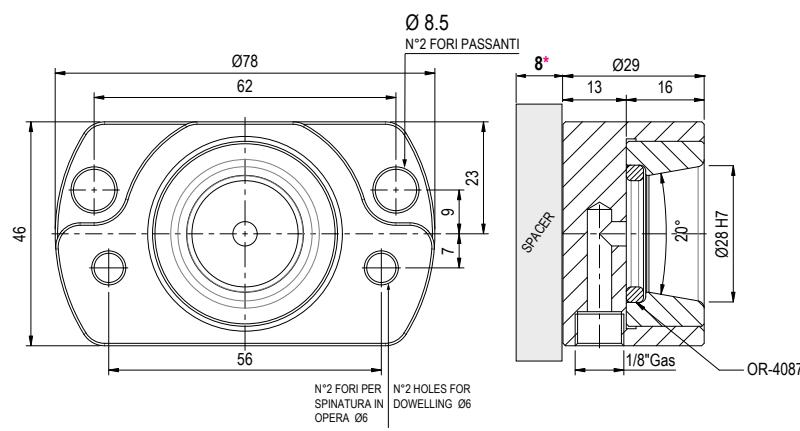
<b>STOP BLOCK</b> Code	
9.INDEX.18C	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2C	



**Ø28**

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.INDEX.28C	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> 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

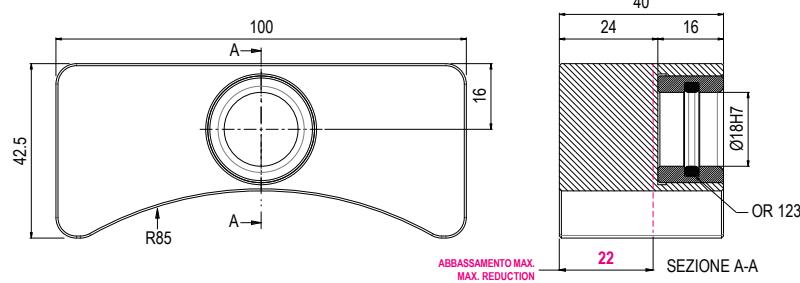
## STOP-BLOCK Lavorabile\*\* - Machineable\*\*



**Ø18**

Con bussola temprata - with hardened bushing

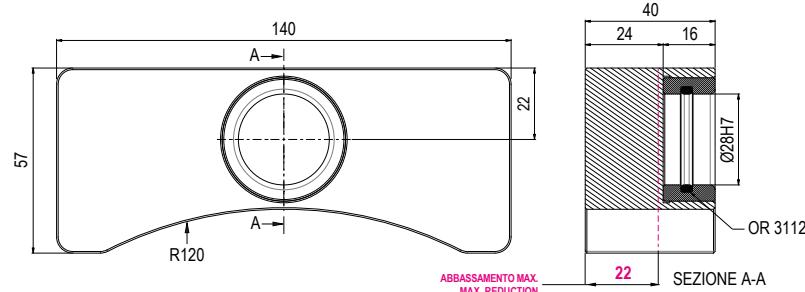
<b>STOP BLOCK</b> Code	
9.G18.INDEX	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2	



**Ø28**

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.G28.INDEX	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2	



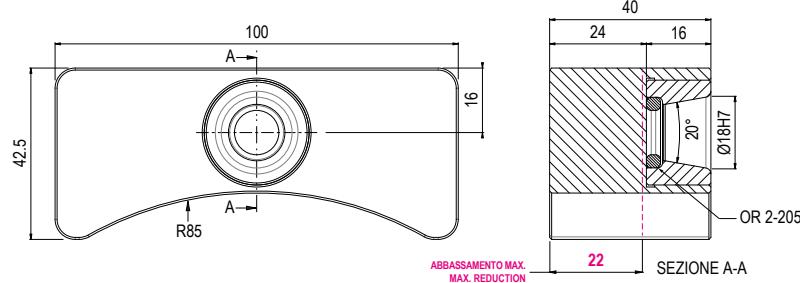
## STOP-BLOCK Lavorabile conico\*\* - Conic machineable\*\*



**Ø18**

Con bussola temprata - with hardened bushing

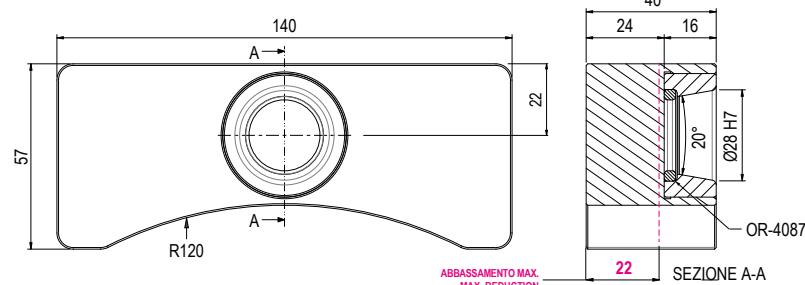
<b>STOP BLOCK</b> Code	
9.G18.INDEXC	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2C	



**Ø28**

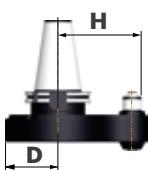
Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.G28.INDEXC	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2C	



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

# GRUPPO ANTIROTANTE ANTI-ROTATION GROUP



TIPO - TYPE 1-2   TIPO - TYPE 3

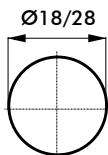
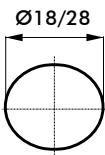


TESTA ANGOLARE ANGLE HEADS		GRUPPO ANTIROTANTE ANTI-ROTATION GROUP		GRUPPO CONO SHANK GROUP		ANELLO RING			
MODELLO MODEL	TIPO TYPE	Code		Code	MODELLO MODEL	Code	Ø	A	
FLU-7	<b>0</b> (Ø66)	9.GA0.SK3065		9.SK30.1ATC		<b>SK</b> DIN 69871	9.FL0.ATC00	<b>Ø66</b>	-
FL90-7		9.GA0.SK4065		9.SK40.1ATC					
FL90-13	<b>1</b> (Ø102)	9.GA1.SK5080		9.SK50.1ATC					
FL90-16 / 2U		9.GA1.CT4065		9.CT40.1ATC					
FS90-3 / 3L		9.GA1.CT5080		9.CT50.1ATC					
FS90-4 / 4L		9.GA1.BT4065		9.BT40.1ATC					
FS90-6 / 6L		9.GA1.BT5080		9.BT50.1ATC					
F90-7 / 7L 2U		9.GA1.BT10080		9.HSK63.1ATC					
F90-10 / 10L 2U		9.GA1.HSK8080		9.HSK80.1ATC					
F90-13 / 13L		9.GA1.HSK10080		9.HSK100.1ATC					
F90-16S		9.GA1.C56500		9.C5.1ATC					
F90-20S*		9.GA1.C68000		9.C6.1ATC					
F90-7 / 7L 10BAR	<b>2</b> (Ø128)	9.GA1.C88000		9.C8.1ATC		<b>CAT</b> ANSI B5.50	9.FL2.ATC00	<b>Ø128</b>	56,75
F90-10 / 10L* 10BAR		9.GA1.KM6365		9.KM63.1ATC					
F90-13 / 13L 10BAR		9.GA1.KM8080		9.KM80.1ATC					
F90-16S 10BAR		9.GA1.KM10080		9.KM100.1ATC					
FMU-10-16		9.GA1.20804065		9.208040.1ATC					
FR90-10		9.GA1.20805080		9.208050.1ATC					
FR90-10 70BAR		9.GA2.SK5080		9.SK50.2ATC					
F90-16 / 16L 2U		9.GA2.CT5080		9.CT50.2ATC					
F90-20 / 20L 2U		9.GA2.BT5080		9.BT50.2ATC					
F90-S30*		9.GA2.HSK8080		9.HSK80.2ATC					
F90-16 10BAR	<b>3</b> (Ø157)	9.GA2.HSK10080		9.HSK100.2ATC		<b>HSK</b> DIN 69893	9.FL3.ATC00	<b>Ø157</b>	-
F90-20 10BAR		9.GA2.C68000		9.C6.2ATC					
FR90-16 70BAR		9.GA2.C88000		9.C8.2ATC					
FR90-20 70BAR		9.GA2.KM8080		9.KM80.2ATC					
FR90-16*		9.GA2.KM10080		9.KM100.2ATC					
FR90-20*		9.GA2.20805080		9.208050.2ATC					
F90-S40		9.GA3.SK50110		9.SK50.3ATC					
F90-S40 70BAR		9.GA3.CT50110		9.CT50.3ATC					
F90-30 (ER40)* 2U		9.GA3.BT50110		9.BT50.3ATC					
FMU-20		9.GA3.HSK80110		9.HSK80.3ATC					
*		9.GA3.HSK100110		9.HSK100.3ATC					
*		9.GA3.C6110		9.C6.3ATC					
*		9.GA3.C8110		9.C8.3ATC					
*		9.GA3.KM80110		9.KM80.3ATC					
*		9.GA3.KM100110		9.KM100.3ATC					
*		9.GA3.208050110		9.208050.3ATC					

**A richiesta: Specificare per gruppi antirotante a 70BAR Esempio: (9.GA1.SK40 49/70) (Chip Balluf su coni HSK)**  
 On request: Specify for 70BAR antirotation group Example: (9.GA1.SK40 49/70) (Chip Balluf on HSK shanks)

# GRUPPO PERNO

## PIN GROUP


**STANDARD**  
2 AXIS

**ON REQUEST**  
1 AXIS

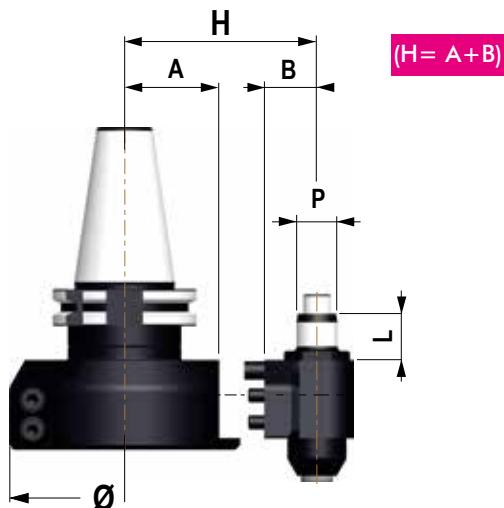
**GRUPPO PERNO**  
PIN GROUP

PERNO CILINDRICO CYLINDRICAL PIN	PERNO ELLITICO ELLiptIC PIN	P	B	L	H	
9.F18.T165	9.F18.T165.1 637030	Ø18	23,25	21	65	
9.F18.T180	9.F18.T180.1 637031	Ø18	38,25	21	80	
9.F28.T1110	9.F28.T1110.1 637032	Ø28		20,5		
9.F18.T1110	9.F18.T1110.1 637035	Ø18		68,25	110	
9.F18.T265	9.F18.T265.1 637033	Ø18	23,25	21	80	
9.F28.T2110	9.F28.T2110.1 637034	Ø28		20,5		
9.F18.T2110	9.F18.T2110.1 637036	Ø18		53,25	110	
<b>PERNO TIPO 3</b> PIN TYPE 3						
9.F28.T300	9.F28.T300.1	Ø28	-	26,5	110	
<b>SPECIALE - SPECIAL</b>						
Perno STD accorciato / Perno speciale STD Short Pin / Special Pos. Pin						
Gruppo antirotante speciale Special Anti-rotation group						

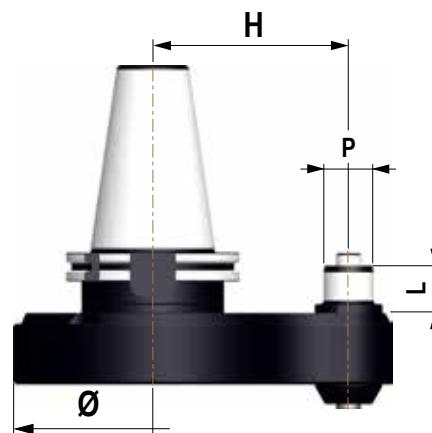
### ATTENZIONE - ATTENTION

In caso di utilizzo di più teste angolari su un'unica macchina viene consigliata la seguente configurazione: Prima testa angolare (Master) assemblata con perno cilindrico per il posizionamento preciso dello stop block successive teste angolari (Secondarie) assemblate con perno ellittico per sopperire ad eventuali difformità dell'interasse.

In case of use of more than one Angle head on the same machine, the following configuration is suggested: First Angle head (Master) – supplied with cylindrical pin for the accurate positioning of the stop block. Additional angle heads (Secondary) – supplied with elliptic pin to balance any potential pin difference.



**Gruppo antirotante tipo 1 - 2 (Anello + Gruppo perno)**  
Anti-rotation group type 1-2 (Ring + Pin group)



**Gruppo antirotante tipo 3 (Flangia integrale)**  
Anti-rotation group type 3 (Integral flange)

In caso di perni speciali fare riferimento alla tabella a Pag. 1.85  
See Page 1.85 for special pins

## OPZIONE REFRIGERANTE serie MTC INTERNAL COOLANT OPTION MTC series

**Opzione B**  
B option



**10bar**



**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**

**Opzione Re-Cool**  
Re-Cool option



**10bar**

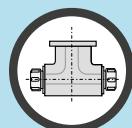


**Perno » Ghiera ReCool » Utensile**  
Positioning Pin » ReCool Nut » Tool

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

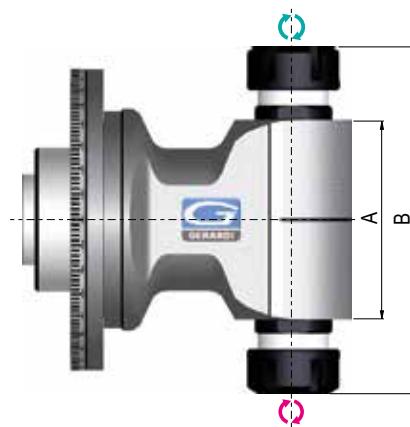
**Vedi pagina - See Page 2.69**

## OPZIONE DOPPIA USCITA serie MTC DOUBLE OUTPUT OPTION MTC series



**Disponibile per i modelli - Available for following types:**

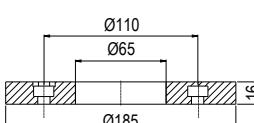
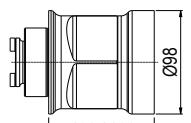
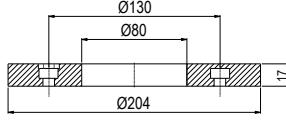
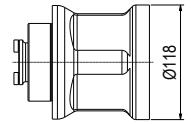
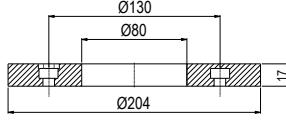
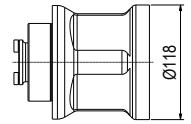
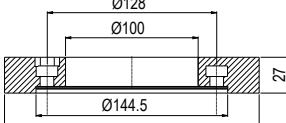
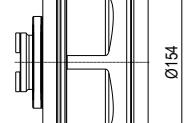
MODELLO MODEL	USCITA OUTPUT	A	B	
F90-16S 2U		90	157	
F90-16 2U	ER-25	98	170	
F90-16L 2U				
F90-20 2U	ER-32	118	193	
F90-20L 2U				
F90-30 2U	ER-40	141	226	



**Teste angolari MTC doppia uscita**  
Double output MTC angle heads

# CONI / FLANGE / PROLUNGHE

## SHANKS / FLANGES / EXTENSIONS

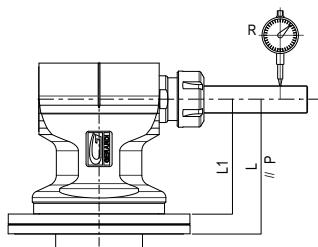
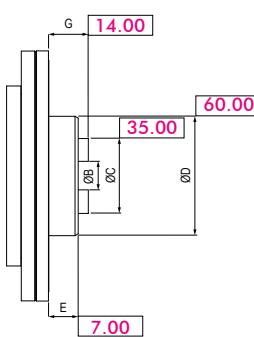
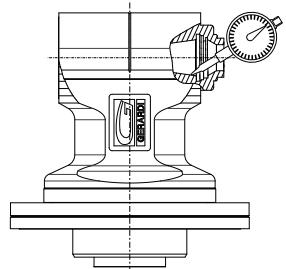
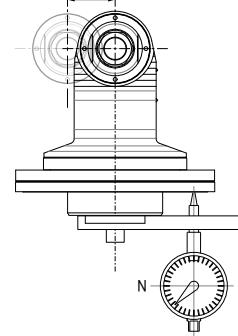
TESTA ANGOLARE ANGLE HEADS		FLANGIA UNIVERSALE * UNIVERSAL FLANGE *		PROLUNGA EXTENSION		CONO MODULARE MODULAR SHANK		
MODELLO MODEL	TIPO TYPE	Code		H	Code		Code	MODELLO MODEL
F90-16S	1	9.FL.F90T1 TNUTS KIT 9.FL.F90T1D NO FLANGE		100 200	9.FEX.10100 9.FEX.10200		9.SK30.MTC 9.SK40.MTC 9.SK50.MTC 9.BT30.MTC	SK DIN 69871 30/40/50
								
	2	9.FL.F90T2 TNUTS KIT 9.FL.F90T2D NO FLANGE		100 200	9.FEX.20100 9.FEX.20200		9.BT40.MTC 9.BTC50.MTC 9.CT40.MTC 9.CT50.MTC	BT MAS 403 30/40/50
								
F90-16L F90-20	2	9.FL.F90T3 TNUTS KIT 9.F90.F90T3D NO FLANGE		100 200	9.FEX.30100 9.FEX.30200		9.208040.MTC 9.208050.MTC 9.HSK.63.MTC 9.HSK.80.MTC 9.HSK.100.MTC	CAT ANSI B5.50 40/50
								
F90-S40	3	9.FL.F90T4		200	9.FEX.40300		9.208040.MTC 9.208050.MTC 9.HSK.63.MTC 9.HSK.80.MTC 9.HSK.100.MTC	ISO DIN 2080 30/40/50
								
F90-S50	4						9.C5.MTC 9.C6.MTC 9.C8.MTC 9.KM.63.MTC 9.KM.80.MTC 9.KM.100.MTC	HSK DIN 69893 63/80/100
							9.C5.MTC 9.C6.MTC 9.C8.MTC 9.KM.63.MTC 9.KM.80.MTC 9.KM.100.MTC	C. ISO 26623 C5/C6/C8 KM 63/80/100

Senza cono  
No shank

\* 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

## ESEMPIO SCHEDA DI COLLAUDO INSPECTION SHEET EXAMPLE

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

TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error	TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error
<b>Quota e parallelismo da filo cono ad asse principale. Oscillazione asse utensile.</b>  Height and parallelism from gauge line to main axis. Runout cutter axis.		<b>Ammesso</b> Allowed $A = \pm 0,03$ $R = \pm 0,025$ $P = \pm 0,015/100$  <b>Rilevato</b> Checked $L = +0,020$ $L1 = +0,010$ $R = 0,025$ $P = 0,012/100$	<b>Verifica delle quote per l'attacco del cono e della flangia.</b>  Main input shaft dimension checked.		<b>Ammesso</b> Allowed $E/G=0,1/-0,5$ $C/D=+0/-0,03$  <b>Rilevato</b> Checked $B = 25h7$ ok $E = -0,100$ $G = -0,150$ $C = -0,020$ $D = -0,030$
<b>Oscillazione mandrino porta utensile.</b>  Runout in cutter spindle.		<b>Ammesso</b> Allowed $0,010$  <b>Rilevato</b> Checked  $0,008$	<b>Perpendicolarità e disassamento tra gli assi principali.</b>  Perpendicularity and offset between main axes.		<b>Ammesso</b> Allowed $F = \pm 0,020$ $N = 0,010/100$  <b>Rilevato</b> Checked  $F = 0,015$ $N = 0,010/100$

### RODAGGIO TESTA - RUN-IN

RPM in entrata RPM	Durata Time	Temperatura Ambiente Room Temperature	Temperatura 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 SERIE MTC

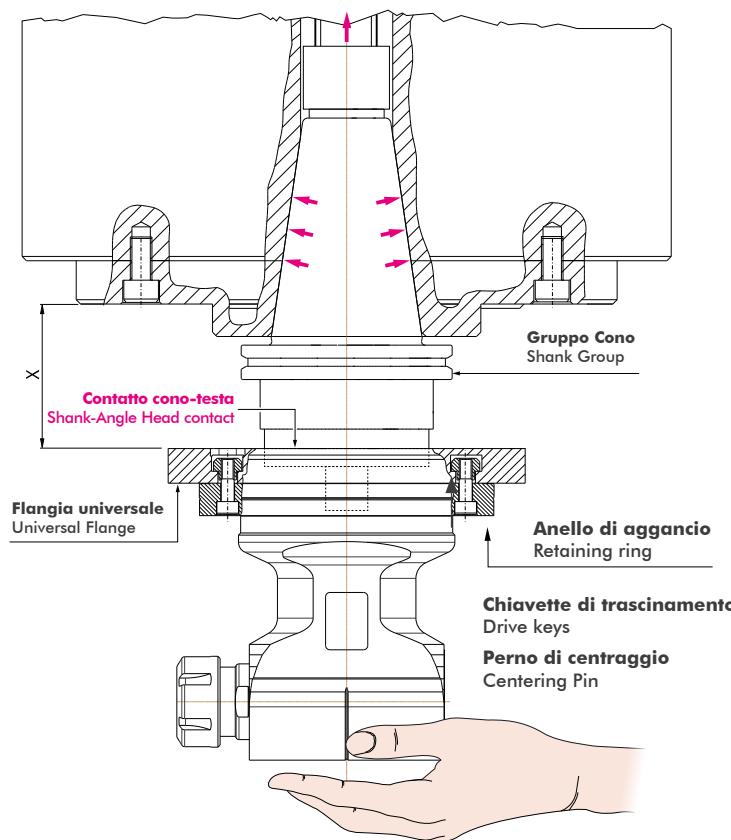
## MTC SERIES MOUNTING EXAMPLE

### DISTANZIALE REALIZZATO IN OPERA

#### SPACER TO BE MADE

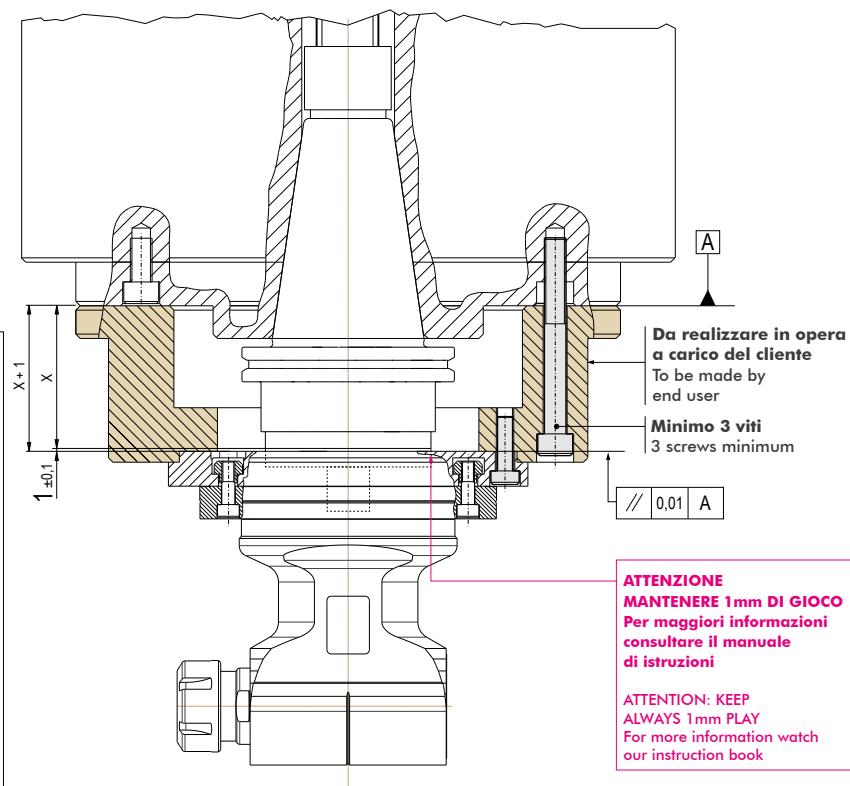
#### FASE 1 - STEP 1

- 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

### 6023E - 600E - 601E



MODELLO MODEL	PINZA COLLET	Ø	Code		Ø Intermedi - Intermediate	
FS90-3 FS90-3L	6023E	1,0	9.60.23E00/...		1,1-1,2-1,3-1,4	
		1,5-2-2,5			1,6-1,7-1,8-1,9-2,1-2,2-2,3-2,4	
		3,0			2,6-2,7-2,8-2,9	
FS90-4 FS90-4L	600E	1,0	9.60.0E000/...		1,1-1,2-1,3-1,4	
		1,5-2-2,5			1,6-1,7-1,8-1,9-2,1-2,2-2,3-2,4	
		3,0-4,0			2,6-2,7-2,8-2,9÷3,9	
FS90-6 FS90-6L	601E	1,0	9.60.1E000/...		1,1-1,2-1,3-1,4	
		1,5-2-2,5			1,6-1,7-1,8-1,9-2,1-2,2-2,3-2,4	
		3-3,5-4-4,5-5-5,5-6			3,1÷3,9-4,1÷4,9-5,1÷5,9	

Esempio di ordinazione: 600E - Ø2,3 = 9.60.0E000/2,3

Example to order: 600E - Ø2,3 = 9.60.0E000/2,3

## ER-DIN 6499

### Foratura-fresatura / drilling-milling



### Maschiatura / tapping



MODELLO MODEL	PINZA COLLET	Ø	Code		PINZA ET1 (compensate) COLLET ET1 (compensation)	Code	
FL90-7 FS90-6L F90-7 / 2U F90-7L / 2U FLU-7 F90-16S 10BAR	ER11	Ø1 / 7	9.ER.11000/...		-	-	
F90-7 10BAR F90-7L 10BAR	ER11 WP	Ø3 / 7	9.ER.11WP0/...		-	-	
FL90-10 F90-10 / 2U F90-10L / 2U FMU-10	ER16	Ø1 / 10	9.ER.16000/...		ET 1-16 (M2 - M8)	9.ET.16000	
FR90-10 70BAR F90-10 10BAR FMU-10	ER16 WP	Ø3 / 10	9.ER.16WP0/...		-	-	
F90-13 F90-13L FL90-13	ER20	Ø1/13	9.ER.20000/		ET / 20 (M2 - M8)	9.ET.20000	
F90-13 10BAR FR90-13 70BAR	ER20 WP	Ø3/13	9.ER.20WP0/...		-	-	
FL90-16 - 2U F90-16S F90-16 / 2U F90-16L / 2U FMU-16	ER25	Ø1 / 16	9.ER.25000/...		ET 1-25 (M2 - M12)	9.ET.25000	
FR90-16 70BAR F90-16S 10BAR F90-16 10BAR F90-16L 10BAR FMU-16	ER25 WP	Ø3 / 16	9.ER.25WP0/...		-	-	
F90-20 / 2U F90-20L F90-20S FMU-20	ER32	Ø2 / 20	9.ER.32000/...		ET 1-32 (M3,5 - M16)	9.ET.32000	
FR90-20 70BAR F90-20 10BAR FMU-20	ER32 WP	Ø3 / 20	9.ER.32WP0/...		-	-	
F90-30 / 2U	ER40	Ø3 / 30	9.ER.40000/...		ET / 40 (M6 - M16)	9.ET.40000	
F90-30B	ER40 WP	Ø3 / 30	9.ER.40WP0/...		-	-	

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	
FS90-3 FS90-3L	-	-	
FS90-4 FS90-4L	-	-	
FS90-6 FS90-6L	-	-	



## CHIAVI - WRENCHES ES - STD

CHIAVI WRENCHES	Code	
CH-5,5	9.CH.55000	
CH-7	9.CH.70000	
CH-9	9.CH.90000	



MODELLO MODEL	GHIERA NUT	Code	COPPIA SERRAGGIO CLAMPING FORCE (Nm)	
FL90-7 FS90-6L F90-7 F90-7L F90-7 10BAR F90-7L 10BAR	ER11 ES *	9.ER.110ES	12 (15)	
F90-10 F90-10L F90-10 10BAR	ER16 ES *	9.ER.160ES/E	24 (30)	
FL90-13	ER20ES *	9.ER.200ES	28 (35)	
FMU-10	ER16 Mini	9.ER.1600M	24 (30)	
FR90-10 70BAR	ER16 ES *	9.ER.160ES	24 (30)	
F90-16S F90-16S 10BAR	ER25 STD	9.ER.25STD	32 (40)	
FL90-16 F90-16 F90-16L F90-16 10BAR	ER25 ES *	9.ER.250ES	32 (40)	
FMU-16	ER25 Mini	9.ER.2500M	32 (40)	
FR90-16 70BAR	ER25 ES *	9.ER.250ES	32 (40)	
F90-20 F90-20 10BAR	ER32 STD	9.ER.32STD	136 (70)	
FMU-20	ER32 STD	9.ER.32STD	136 (70)	
FR90-20 70BAR	ER32 ES *	9.ER.320ES	136 (70)	
F90-S40 F90-S40B	ER40 STD	9.ER.40STD	176 (220)	

CHIAVI WRENCHES	Code	
CH-13 ES	9.CH.130ES	
CH-22 ES	9.CH.220ES	
CH-19 ES	9.CH.190ES	
CH-30 ES	9.CH.300ES	
CH-36 ES	9.CH.360ES	
CH-22 ES	9.CH.220ES	
CH-19 ES	9.CH.190ES	
CH-19 ES	9.CH.190ES	
CH-27 ES	9.CH.270ES	
CH-32 ES	9.CH.320ES	
CH-25 STD	9.CH.25STD	
CH-27 ES	9.CH.270ES	
CH-38 ES	9.CH.380ES	
CH-25 Mini	9.CH.2500M	
CH-27 ES	9.CH.270ES	
CH-27 ES	9.CH.270ES	
CH-36 ES	9.CH.360ES	
CH-47 ES	9.CH.470ES	
CH-32 STD	9.CH.32STD	
CH-40 ES	9.CH.400ES	
CH-32 STD	9.CH.32STD	
CH-32 ES	9.CH.320ES	
CH-47 ES	9.CH.470ES	
CH-52 ES	9.CH.052ES	
CH-40 STD	9.CH.40STD	

# SIRINGA PER INGRASSAGGIO SYRINGE FOR GREASING



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 2.0 MODULAR QUICK CHANGE ADAPTORS 2.0



## 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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

## Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !**  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI**  
MONEY SAVER

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE**  
VERSATILITY & PERFORMANCE IMPROVED

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ**  
EXTREME COMPATIBILITY

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.



## Evolution Line

# MOLTIPLICATORI DI GIRI - SPINDLE SPEEDERS



# INDICE - INDEX

3

PAGE 3.11 - 3.16



## ATC - AUTOMATIC TOOL CHANGE

GSS-10HS

GSS-13

GSS-16

GSS-20

GSS-26

GSS-34

3

PAGE 3.18 - 3.27

## ACCESSORIES

### ATC - AUTOMATIC TOOL CHANGE

IMPIANTO MICRONEBBIA

MICROFOG SYSTEM

GHIERE RECOOL

RECOOL NUTS

ESEMPIO SCHEDA DI COLLAUDO

INSPECTION SHEET EXAMPLE

GRUPPO ANTIROTANTE - GRUPPO PERNO

ANTI-ROTATION GROUP - PIN GROUP

ESEMPIO DI MONTAGGIO

MOUNTING EXAMPLE

STOP-BLOCK

STOP-BLOCK

PINZE

COLLETS

GHIERE E CHIAVI

NUTS &amp; WRENCHES

# Moltiplicatori di giri

Per operazioni di foratura e fresatura

I moltiplicatori di giri sono stati studiati e definiti con l'intento di offrire un prodotto che possa assicurare la massima affidabilità e precisione nelle operazioni di fresatura e foratura.

- Max. 35.000 Rpm
- Lavorazioni ad alta velocità
- Possibilità di montaggio manuale o automatico ed intercambiabili con teste angolari Evolution Line
- Consentono alla macchina di girare a bassi regimi di giri
- Possibilità di utilizzare utensili in metallo duro

La costruzione compatta, i componenti in acciaio trattato termicamente, gli ingranaggi rettificati sull'evolvente permettono la trasmissione di potenze elevate con ottimi livelli di silenziosità

Il mandrino è supportato da cuscinetti a sfere di precisione a contatto obliquo precaricati che gli conferiscono un'elevata rigidità e precisione di rotazione entro mm. 0,01.

- 3**
- Due ingranaggi satelliti rettificati per elevate potenze trasmissibili
  - Attacco utensile speciale a richiesta (Komet, DIN 1835, ecc...)
  - Adduzione liquido refrigerante attraverso il centro utensile standard o a richiesta
  - Attacco macchina speciale a richiesta (Cono Morse, DIN 69880, ecc...)
  - Perno antirottante intercambiabile e perciò personalizzabile dal cliente

**da pag 3.11 a 3.28**

I moltiplicatori di giri possono essere montati su macchine tradizionali o con cambio utensile automatico.

La lubrificazione è assicurata con grasso a base sintetica a lunga vita che non richiede praticamente interventi di manutenzione.

Il certificato di collaudo che troverete allegato ad ogni moltiplicatore di giri garantisce la qualità del prodotto.

Robustezza, versatilità, facilità d'impiego e di manutenzione sono caratteristiche che hanno sempre contraddistinto la nostra produzione ed i moltiplicatori di giri ne sono una conferma.



# Spindle Speeders

## For milling and drilling operations

The spindle speeders have been designed and developed to offer a product that ensures maximum reliability and accuracy in milling and drilling. From design to static and dynamic testing of the finished product, our spindle speeders use the most advanced technical and technological know-how

- Max 35.000 rpm
- High speed machining
- Manual or automatic tool change option and interchangeable with Evolution line angular heads
- Allow the machine to run at low Rpm
- Possibility of using hard metal tools

The compact construction, the heat-treated steel parts and the ground gears on the involute guarantee transmission of high power ratings with amazingly low noise levels. The spindle is supported by a set of preloaded precision ball bearings with oblique contact that ensure greater strength and rotation precision less than 0,01 mm.

- Two planetary ground gears for high transmission power ratings
- Special tool attachment on request (Komet, DIN 1835, etc.)
- Coolant through the tool centre standard or on request
- Special machine shank connection, on request (Morse Cone, DIN 69880 etc.)
- Interchangeable anti-rotating pin which can therefore be customized by the customer

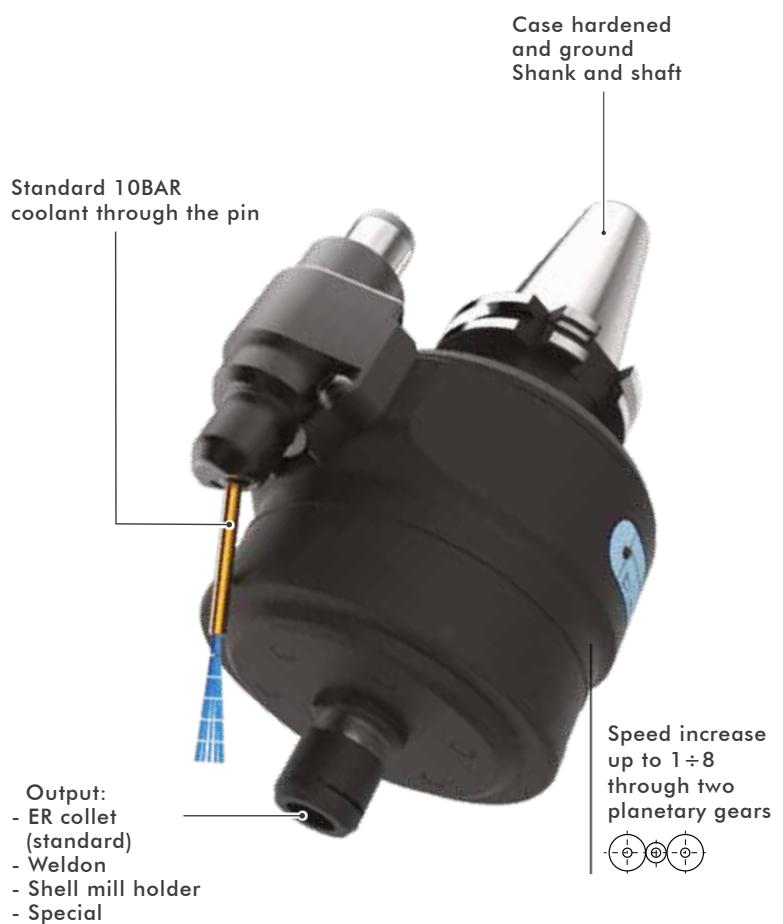
**from pag 3.11 to 3.28**

The spindle speeders series can be mounted on traditional machines and on machines with automatic tool change.

The spindle speeders series is lubricated with a long-life synthetic grease that is practically maintenance free.

The test certificate enclosed to each spindle speeders guarantees the quality of the product.

Our products have always stood out for their sturdiness, flexibility and easy use and maintenance and the spindle speeders series is an additional proof of such outstanding features.



# MODULARITÁ SENZA MODULARITY WITHOUT

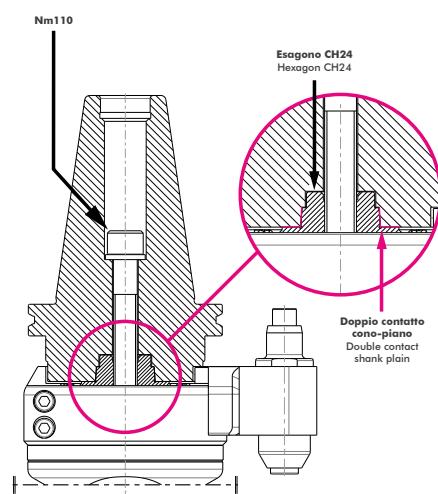
**UN SOLO MOLTIPLICATORE PER PIÙ CENTRI DI LAVORO**  
**ONE SPINDLE SPEEDER FOR MANY MACHINES**

Coni intercambiabili per un utilizzo su più centri di lavoro!!  
Interchangeable drive tapers to suit any machine spindle!!

3



**PERNO DI POSIZIONAMENTO  
MODULARE INTERCAMBIABILE A SCELTA**  
A CHOICE OF MODULAR  
INTERCHANGEABLE ARRESTER PINS



**UN INVESTIMENTO CHE  
SI RIPAGA VELOCEMENTE !!**  
**QUICKEST RETURN ON YOUR  
INVESTMENT !!**



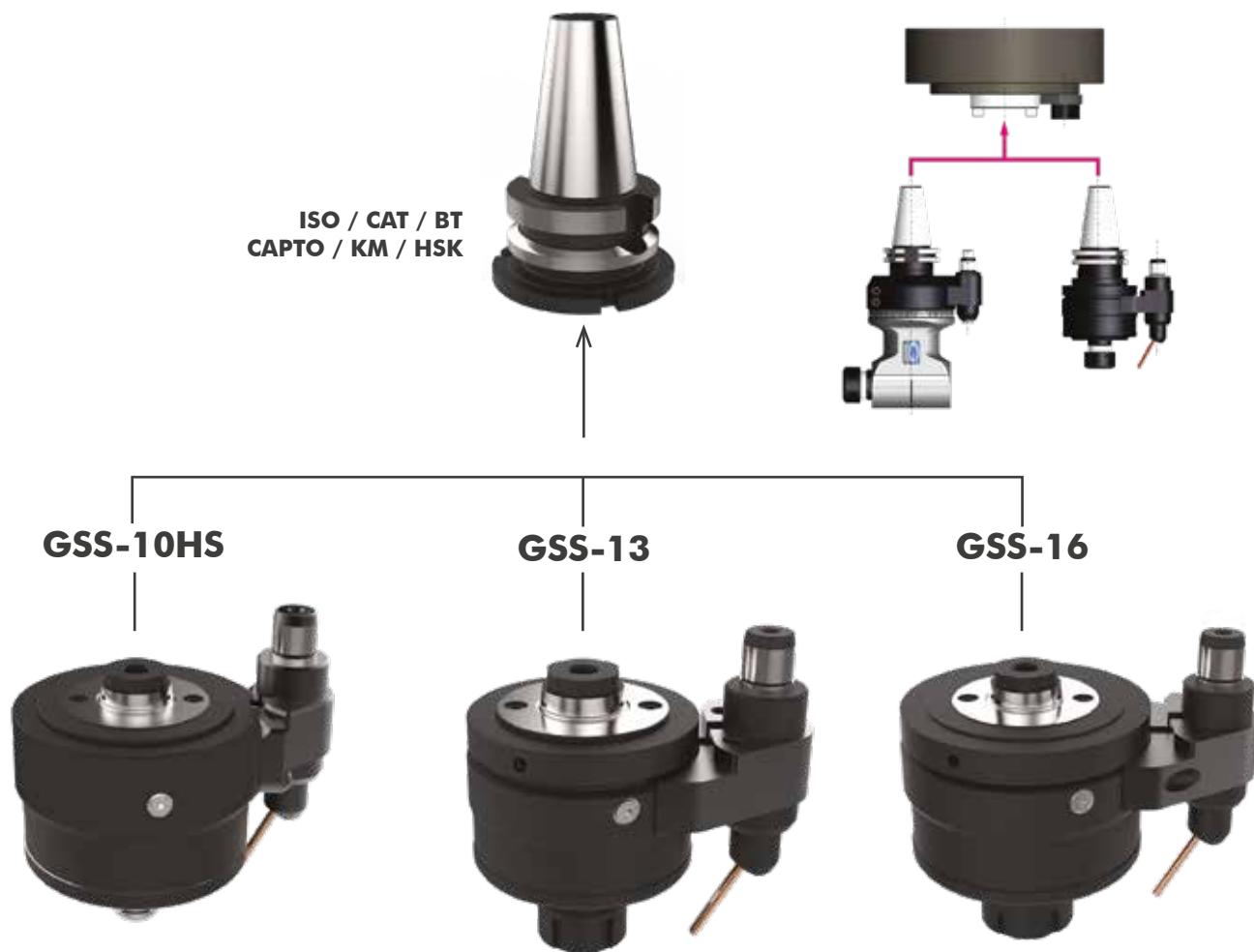
GSS 10HS / ISO-40 HSK-63 STOP-BLOCK

**IL DOPPIO CONTATTO CONO E PIANO  
ASSICURANO RIGIDITÀ E PRECISIONE !!**  
THE UNIQUE GERARDI TAPER AND FACE  
LOCATION ENSURE RIGIDITY AND ACCURACY !!

# COMPROMESSI COMPROMISES

**UN SOLO CENTRO DI LAVORO CON PIÙ MOLTIPLICATORI**  
**THE SAME MACHINE WITH MANY SPINDLE SPEEDERS**

Lavorare nelle migliori condizioni risparmiando sui costi di acquisto !!  
A system to save costs !!



UNA SOLUZIONE  
APERTA PER IL LAVORO DI OGGI ,  
PENSANDO A QUELLO DI DOMANI !!  
BE READY FOR TOMORROW  
WITH THE SPINDLE SPEEDERS YOU BUY TODAY !!

## Esempi applicativi / Applications examples

# Linea *Evolution* / Evolution Line

Moltiplicatori di giri

Spindle speeders



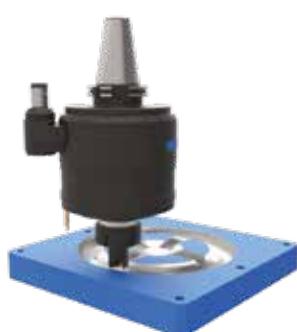
35.000 Rpm -  $\pi=1:8$



22.000 Rpm -  $\pi=1:6$



15.000 Rpm -  $\pi=1:6$



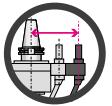
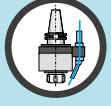
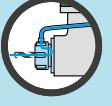
8.000 Rpm -  $\pi=1:4$

## SIMBOLOGIA DATI TECNICI TECHNICAL DATA LOGOS

							
<b>Rapporto trasmissione</b> Ratio	<b>Numero di giri</b> Revolutions per minute Rpm	<b>Potenza massima</b> Max power Kw	<b>Coppia</b> Torque Nm	<b>Peso</b> Weight Kg	<b>Uscita</b> Output Ø	<b>Maschio</b> Tapping M	<b>Pinza</b> Collet Ø

3

## INDICE OPZIONI OPTIONS INDEX

<b>OPZIONI</b> OPTIONS						
<b>PASSAGGIO REFRIGERANTE</b> COOLANT				 Attaverso il perno Through the Pin 10bar (standard)	 Cono » Utensile Shank » Tool 70bar	 Perno » Chiera » Utensile Pin » Distrib » Tool ReCool NUT
<b>USCITA</b> OUTPUT				 Uscita WELDON WELDON output		

## EVOLUTION LINE SPINDLE SPEEDERS



3

Moltiplicatori di giri progettati per  
operazioni di fresatura e foratura  
Spindle Speeders designed for milling  
ad drilling operations

### Moltiplicatori di giri

da pag 3.1 a 3.28

Caratteristiche tecniche principali:

- Giri max 35.000
- Utilizzati specialmente in operazioni di finitura
- Possibilità di montaggio manuale o automatico
- Consentono alla macchina di ruotare a bassi regimi di giri
- Possibilità di utilizzare utensili in metallo duro

### Spindle speeders

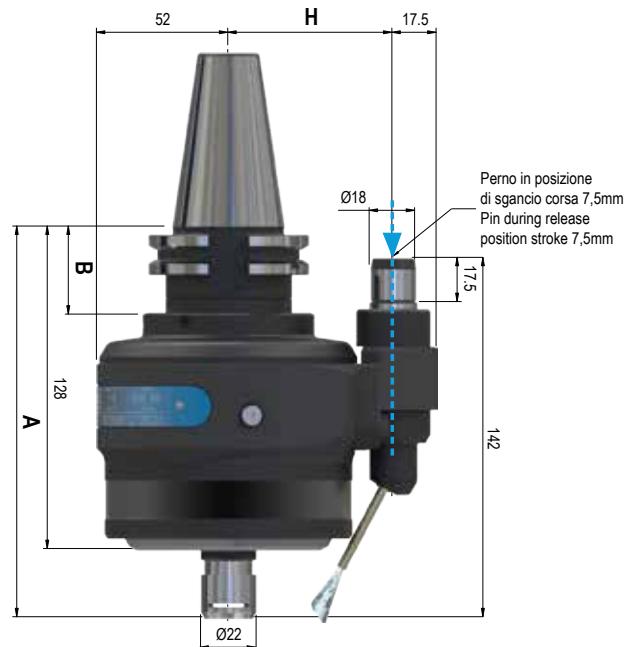
from page 3.1 to 3.28

Main technical features

- Max 35.000 rpm
- Used in particular for finishing operations
- Manual or automatic tool change option
- Allow the machine to rotate at low rpm
- Possibility of using hard metal tools



STOP BLOCK



## GSS 10.HS

TYPE 1

CODE

9.GS.S10HS



### Dati tecnici - Technical data

	ISO/BT40 Ratio 1:8		ISO/BT50 6,8 Kg
	35.000		Ø 10
	Kw 8,5		ER16 Ø1/10
	Nm 3,5		



Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893	C. ISO 26623	KM	ISO DIN 2080	NMBT ANSI B5.18
Grandezza - Size	30 40	50	40 50	30 40 50	63 80 100	C5 C6 C8	63 80 100	40 50
Prezzo EXTRA Price €	opt. std	opt.	std opt.	opt. std opt.	opt. opt. opt.	opt. opt. opt.	On request	opt. opt. opt. opt.
H	Standard Ø18	65 80	65 80	65 80	65 80	65 80	65 80	65 80
	80 - Ø18 optional	opt. std	opt. std	opt. std opt.	opt. std	opt. std	opt. std	opt. std
	110 - Ø18	optional	optional	optional	optional	optional	optional	optional
	110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	155	155	155	155	163 164	168	163	158
B	35 42	35 42	35 42	35	- 42	52	-	17,5 20,5
	124,5	127,5	124,5	127,5			17,5	20,5

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

**IMBALLO & PESO:**  
PACK & WEIGHT: Max. Kg



PINZA COLLET  
ER16HP Ø1/10      ER16 Ø1/10 WP

INTERASSE SPECIALE  
SPECIAL PITCH

optional      optional



optional

REFR. DAL CONO  
COOLANT THROUGH SHANK

DRY RUNNING NOT POSSIBLE

Max 70 bar

optional





series  
**GSS**

# Evolution Line - SPINDLE SPEEDERS

## GSS 13

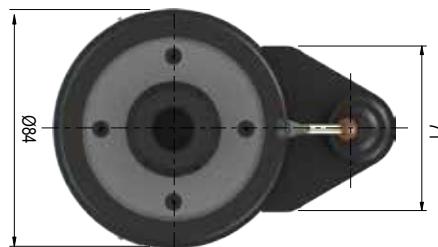
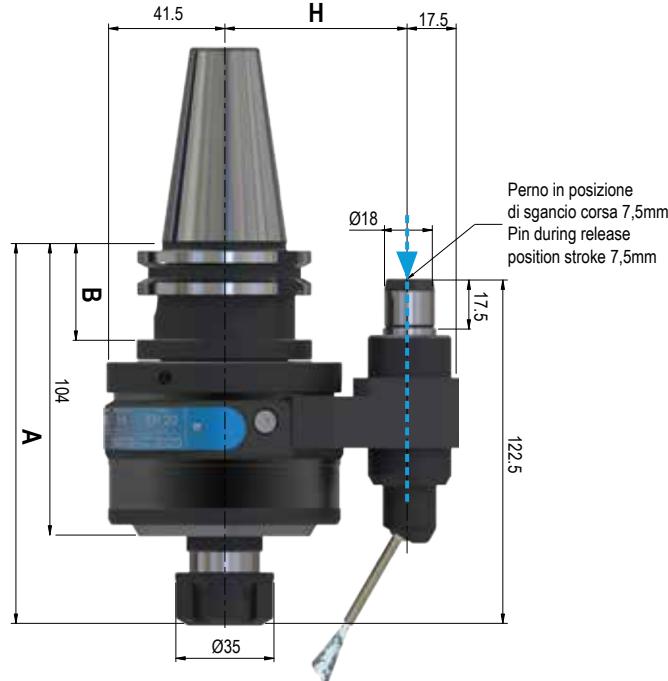
TYPE 1

9.GS.S1300



### Dati tecnici - Technical data

	Ratio 1:6		ISO/BT40 3,7 Kg
			ISO/BT50 6,5 Kg
	Rpm 22.000		Ø 13
	Kw 5,8		ER20 Ø1/13
	Nm 2,8		



Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893	C. ISO 26623	KM	ISO DIN 2080	NMBT ANSI B5.18
Grandezza - Size	30 40 45 50	40 50	30 40 50	63 80 100	C5 C6 C8	63 80 100	40 50	40 50
Prezzo EXTRA Price €	opt. std opt. opt.	std opt. opt. std	opt. opt. opt. opt.	opt. opt. opt. opt.	std opt. opt.	<i>On request</i>	opt. opt.	opt. opt.
H	Standard Ø18 80 - Ø18 110 - Ø18 110 - Ø28	65 80 optional std opt. std optional	65 80 opt. std opt. std optional					
A		135,5	135,5	135,5 143,5	144,5 148,5	143,5	139,5	105 107,5
B		35 42	35 42	35 50	42 52	-	-	35 42

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO:**  
PACK & WEIGHT: Max. Kg

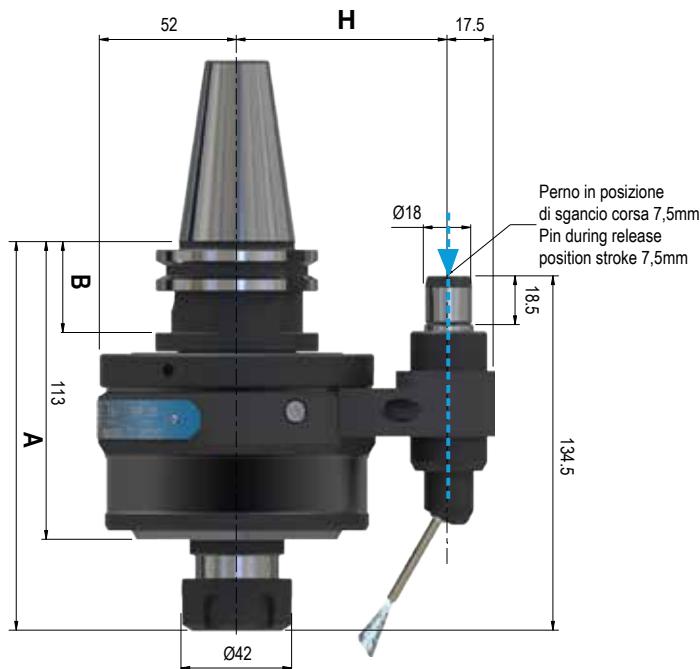


ER20 HP Ø1/13

optional



optional


**GSS 16**

TYPE 2

CODE

9.GS.S1600


**Dati tecnici - Technical data**
Ratio  
1:6ISO/BT40  
5 KgRpm  
15.000

Ø 16

ER25  
Ø1/16

Nm 7,5

3

Coni Shanks	SK DIN 69871	CAT ANSI BS.50	BT MAS 403	HSK DIN 69893	C. ISO 26623	KM	ISO DIN 2080	NMBT ANSI BS.18
Grandezza - Size	40    45    50	40    50	40    50	63    80    100	C5    C6    C8	63    80    100	40    50	40    50
Prezzo EXTRA Price €	std    opt.    opt.	std    opt.	std    opt.	opt.    opt.    opt.	std    opt.    opt.	On request	opt.    opt.	opt.    opt.
H	Standard Ø18	80	80	-	80	80	80	80
	110 - Ø18							
	110 - Ø28	optional	optional	std	490	std	optional	optional
A	147,5	147,5	131,5	155,5	156,5	160,5	155,5	151,5
B	35    42	35    42	35	50	42	52	-	11,5    15

**Dotazione Standard**  
**Standard Equipment**
**Opzioni - Options**

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

 PINZA  
 COLLET

 INTERASSE SPECIALE  
 SPECIAL PITCH

**IMBALLO & PESO:**  
 PACK & WEIGHT: Max. Kg


ER25 HP Ø1/16



optional

optional



series  
**GSS**

# Evolution Line - SPINDLE SPEEDERS

## GSS 20

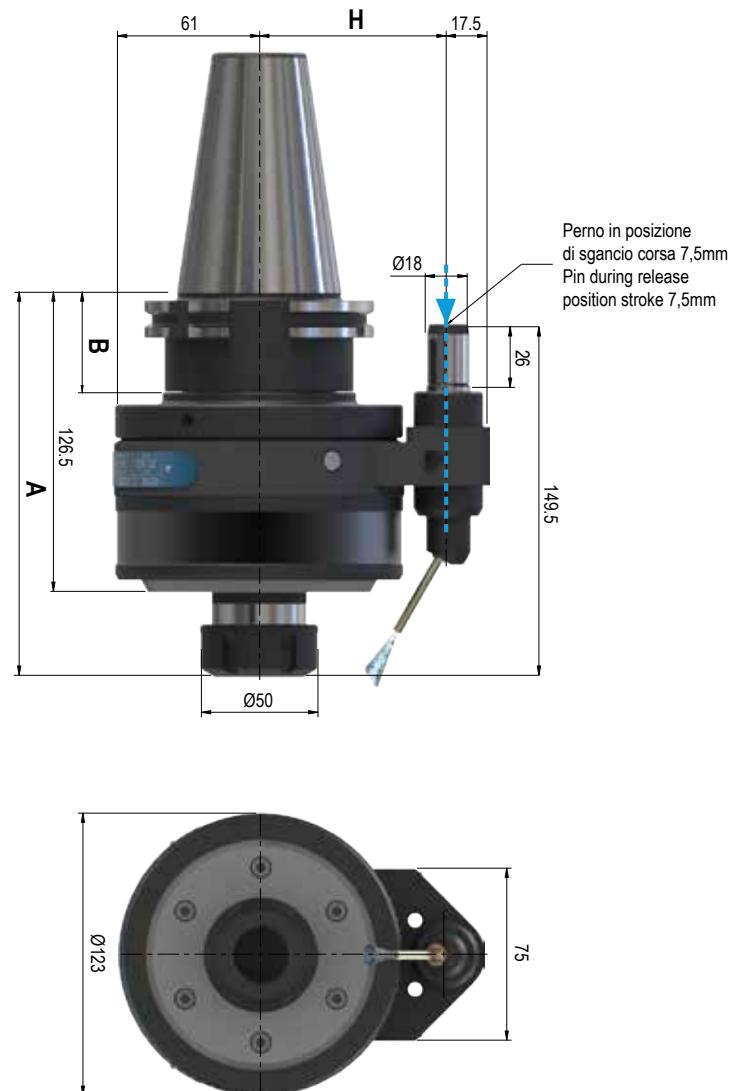
TYPE 2

9.GS.S2000



### Dati tecnici - Technical data

	Ratio 1:6		ISO/BT40 9 Kg
	ISO/BT50 10 Kg		Rpm 12.000
			Ø 20
	Kw 11		ER32 Ø2/20
	Nm 8		



Coni Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893	C. ISO 26623	KM	ISO DIN 2080	NMBT ANSI B5.18
Grandezza - Size	45	50	50	50	80	100	C6	C8
Prezzo EXTRA Price €	optional	std	std	optional	opt.	opt.	opt.	optional
H	Standard Ø18	80	80	80	80	80	80	80
	110 - Ø18 110 - Ø28	optional	optional	optional	optional	optional	optional	optional
A	162,5	162,5	170,5	171,5	170,5	166,5	132	135,5
B	35	42	35	50	42	-	11,5	20
							132	135,5
							11,5	20

### Dotazione Standard Standard Equipment

### Opzioni - Options

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

PINZA  
COLLET

INTERASSE SPECIALE  
SPECIAL PITCH

**IMBALLO & PESO:**  
PACK & WEIGHT: Max.13,2 Kg

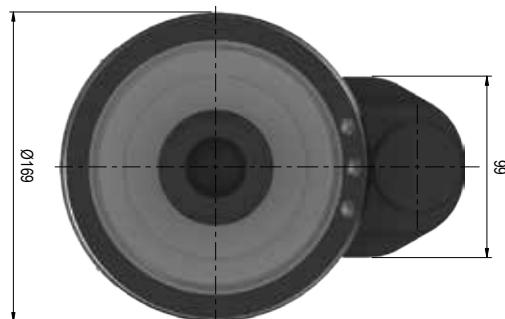
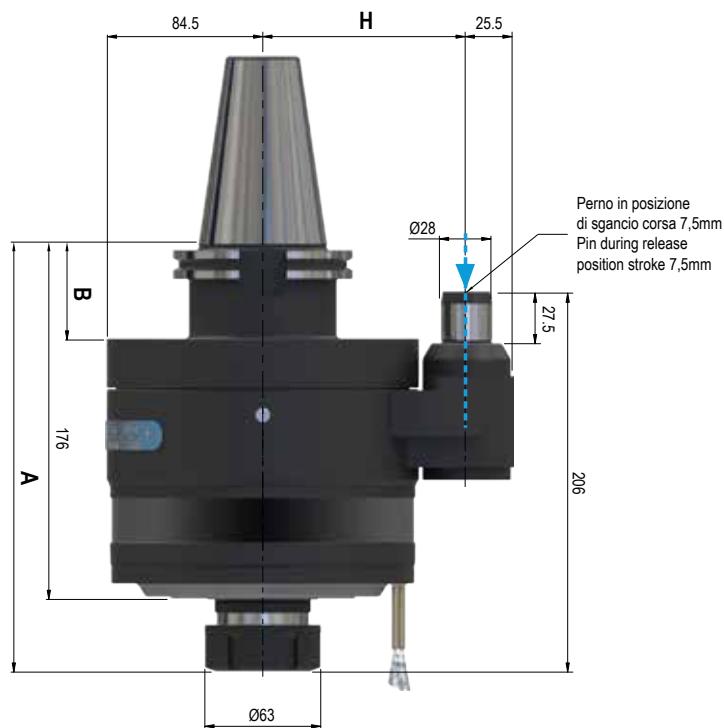


ER32 HP Ø1/20



optional

optional


**GSS 26**

TYPE 3

CODE

9.GS.S2600


**Dati tecnici - Technical data**
Ratio  
1:4,2ISO/BT50  
24 KgRpm  
10.000

Ø 26

Kw 50  
ER40  
Ø3/26

Nm 45

Coni Shanks	SK DIN 69871	CAT ANSI BS.50	BT MAS 403	HSK DIN 69893	C. ISO 26623	KM	ISO DIN 2080	NMBT ANSI BS.18
Grandezza - Size	50	60	50	50	100	C8	100	50
Prezzo EXTRA Price €	std	optional	optional	optional	On request	On request	On request	On request
H	Standard Ø28	110	110	110	110	110	110	110
A	215,5	231	231,5	231,5	234	229	225	203,5
B	35	50	35	51	53	-	23	23

**Dotazione Standard  
Standard Equipment**
**Opzioni - Options**

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

**IMBALLO & PESO:**  
PACK & WEIGHT: Max. Kg



PINZA  
COLLET  
ER40 HP Ø3/26  
ER40 Ø3/26 WP

optional optional

INTERASSE SPECIALE  
SPECIAL PITCH

optional

REFR. DAL CONO  
COOLANT THROUGH SHANK

DRY RUNNING NOT POSSIBLE

Max 70 bar

On request

USCITA  
OUTPUT

Weldon



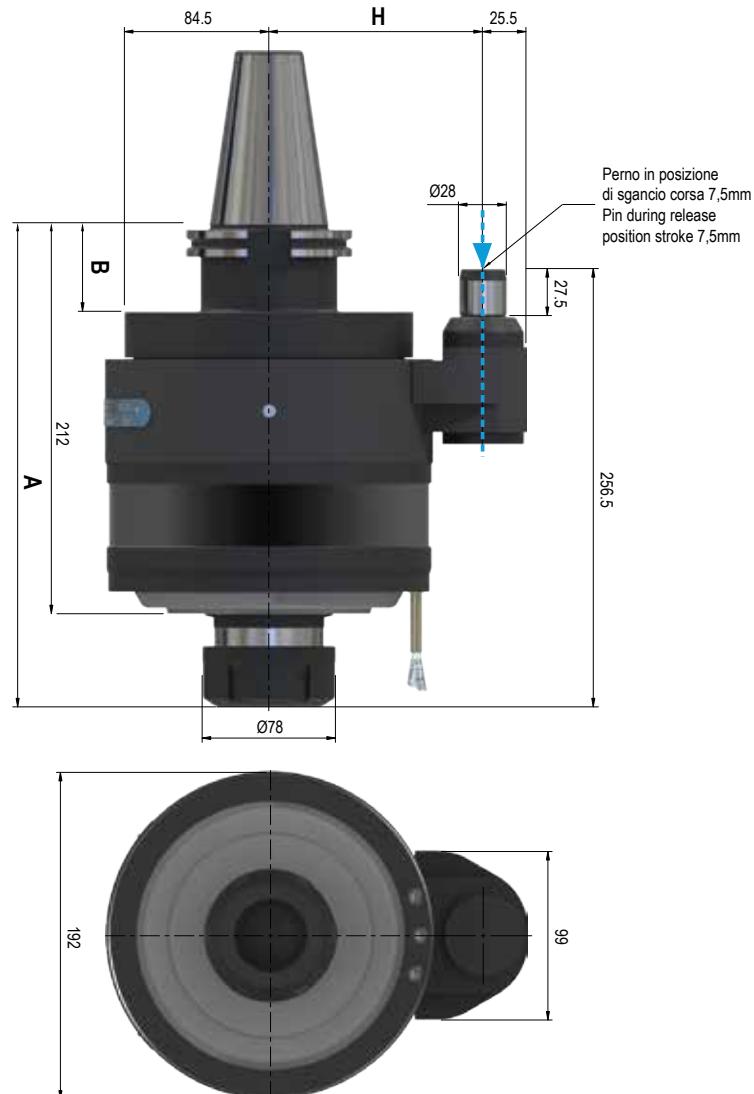
optional

**GSS 34**

CODE

TYPE 3  
9.GS.S3400**Dati tecnici - Technical data**

	Ratio 1:4		ISO/BT50 36 Kg
	Rpm 8.000		Ø 34
	Kw 80		ER50 Ø6/34
	Nm 90		



Coni Shanks		SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893		C ISO 26623		KM		ISO DIN 2080		NMBT ANSI B5.18
Grandezza - Size	50	60	50	50	100		C8		100		50		50		50	
Prezzo EXTRA Price €	std	optional	<i>On request</i>		optional	<i>On request</i>		<i>On request</i>		<i>On request</i>	opt.	optional		<i>On request</i>		
H Standard Ø28		125		125		125		125		125		125		125		
A	266,5	282,5	282,5	282,5	284,5		278,5		275,5		254,5		254,5			
B	35	51	36	51	46		-		-		23		23			

**Dotazione Standard**  
Standard Equipment**Opzioni - Options**

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

**IMBALLO & PESO:**  
PACK & WEIGHT: Max. Kg



PINZA COLLET  
ER50 06/34      ER50 06/34 WP  
std               std

USCITA OUTPUT



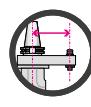
Weldon Ø20

optional

REFR. DAL CONO  
COOLANT THROUGH SHANK

DRY RUNNING NOT POSSIBLE

Max 70 bar

*On request*INTERASSE SPECIALE  
SPECIAL PITCH

optional

# ISTRUZIONI INSTRUCTIONS

## ISTRUZIONI PER UN CORRETTO FUNZIONAMENTO:

Si raccomanda ad ogni avvio di far girare il moltiplicatore di giri alcuni minuti ad 1/3 della sua velocità massima di utilizzo, dopo che è possibile aumentare fino alla velocità massima indicata a catalogo che potrà essere mantenuta in modo continuativo.

È importante che venga rispettato il limite coppia massima (Nm), oltre che il numero di giri.

Si consiglia l'utilizzo di un sistema di lubrificazione MICRO-NEBBIA\* in caso di utilizzo continuativo (oltre le 4 ore).

**ATTENZIONE:** in caso di materiali molto tenaci, il parametro di riferimento, per utilizzo in continuo, è la coppia massima disponibile. (Molto limitata nei moltiplicatori di giri).

## IN ORDER TO GUARANTEE THE PROPER SPINDLE SPEEDERS WORK:

We recommend to make it run every new start for few minutes at 1/3 (one third) of its Max Rpm then you can go at max speed as indicated on the catalogue which can be kept continuously if used as the torque indicated on the catalogue.

It is important that the Max. torque limit is respected (Nm), as well as Rpm of course.

For continuous use (over 4 hours) the recommended solution is the MICRO-FOG lubricator\*.

**ATTENTION:** in case of very strong materials the limit could be the Max torque available

(as spindle speeders have a very limited torque).

\* Si consiglia di sottoporre l'applicazione in continuo al nostro ufficio tecnico \* Check the use in continuous application with our Technical Department



\* Si consiglia di sottoporre l'applicazione in continuo al nostro ufficio tecnico  
Check the use in continuous application with our Technical Department

# IMPIANTO MICRONEBBIA

## MICROFOG SYSTEM

### Indicazioni d'impiego

Questo impianto è stato appositamente studiato da Gerardi, per la lubrificazione dei propri prodotti.

L'utilizzo è consigliato in tutte quelle applicazioni che prevedono usi intensivi o gravosi dei prodotti stessi, ad esempio:

- Tempi di lavoro superiori alle 4h in continuo.

- Elevati n° di giri

- Necessità di eliminare i fermi macchina per la sostituzione del lubrificante.

L'apporto continuo di lubrificante "pulito" ed aria all'interno del moltiplicatore di giri, aumentano la durata dei componenti meccanici in rotazione e contribuiscono a diminuirne il riscaldamento.

### Use informations:

This system has been purposely set up from Gerardi, to lubricate our products.

To use is suggested for intensive or heavy working conditions of our products, eg:

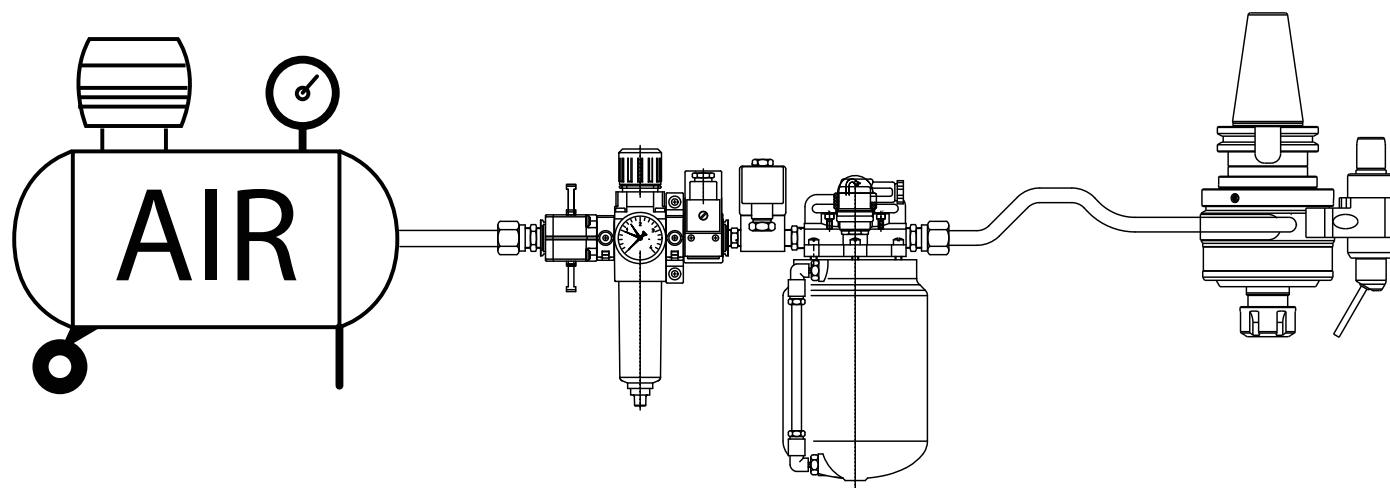
- Daily work up to 8h

- High n° turns per minute

- Eliminate the machine stops to substitute the lubricant.

The "clean" lubricant and air non-stop flow inside the spindle speeder increase the mechanical components life and reduce the heating.

3



### Caratteristiche tecniche

Technical features

Fluido Flow	Air
Pressione Max Max pressure	10 bar
Pressione d'esercizio Service pressure	0,5 - 4 bar
Connessione tubi Pipe connectors	3/8 gas
Capacità serbatoio olio Oil tank capacity	1 lt
Tipo olio Oil tank	ISO VG 32
Capacità di lubrificazione Lubrication capacity	Max.2 Spindle Speeders

Codice  
Code

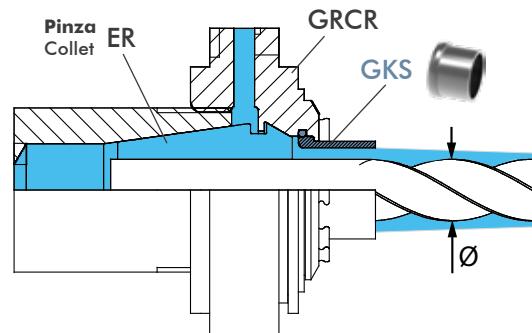
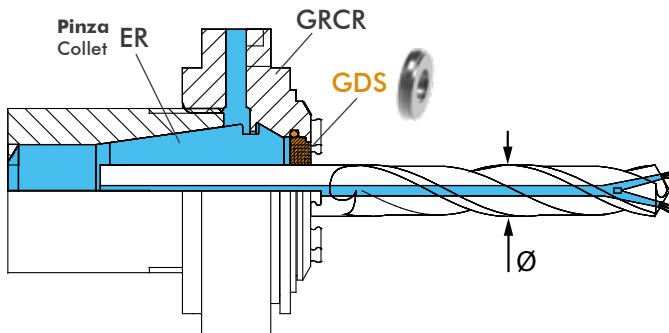
9.FA.097084



## **GHIERE ER ReCool** **ReCool ER NUTS**

Con queste ghiere speciali è possibile ottenere il passaggio refrigerante tramite utensile anche su moltiplicatori di giri che non prevedono questa opzione.

With these special nuts it is possible to get coolant through the tool even on Spindle Speeders which do not have this option.



**GRCR**  
(Ghiera / Nut)



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



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



3

MODELLO MOLTIPLICATORE DI GIRI SPINDLE SPEEDER TYPE	Pinza Collet	Ghiera Nut									
GSS 10-HS	ER16	GRCR16									
		9.GR.CR16									
GSS 13	ER20	GRCR20									
		9.GR.CR20									
GSS 16	ER25	GRCR25									
		9.GR.CR25									
GSS 20	ER32	GRCR32									
		9.GR.CR32									
GSS 26	ER40	GRCR40									
		9.GR.CR40									
<b>INDICARE SEMPRE IN FASE D'ORDINE Ø UTENSILE - IN CASE OF ORDER SPECIFY THE Ø TOOL</b>											
<b>■ ER: Pinza ER / ER Collet ■ GRCR: Ghiera / Nut ■ GDS: Disco di tenuta / Sealing ring ■ GKS: Disco di tenuta / Sealing ring</b>											

**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.  
Maggiori pressioni 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.

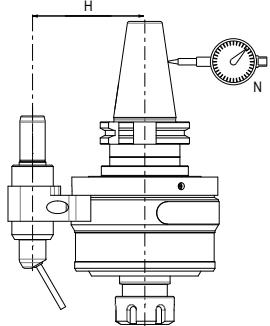
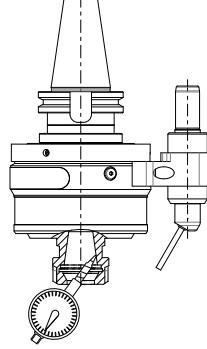
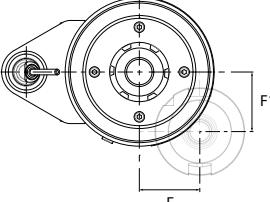
Esempio di ordine Ghiera:GRCR16 (Cod. 9.GR.CR16) - Disco tenuta: GDS16-Ø10 (Cod. 9.GD.S16/10)

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

<b>Tipo - Type</b>	GSS-16
<b>Codice - Code</b>	9.GS.S1600
<b>Numeros seriale - Serial number</b>	034856
<b>Attacco cono - Input shank</b>	BT50 - H=110
<b>Note speciali - Special notes</b>	

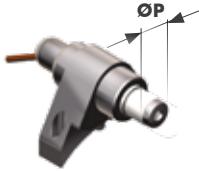
TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error	TIPO DI CONTROLLO Test type	RAFFIGURAZIONE Drawing	ERRORE Error
<p><b>Concentricità tra cono e asse principale. Interasse cono-perno di posizionamento.</b> Concentricity between shank and main axis. Pitch shank-positioning pin.</p>		<p><b>Ammesso</b> Allowed <math>H = \pm 0,01</math> <math>N = \pm 0,02</math></p> <p><b>Rilevato</b> Checked</p> <p><math>H = -0,008</math></p> <p><math>N = 0,014</math></p>	<p><b>Oscillazione mandrino porta utensile.</b> Runout in cutter spindle.</p>		<p><b>Ammesso</b> Allowed 0,010</p> <p><b>Rilevato</b> Checked</p> <p><math>0,004</math></p>
<p><b>Disassamento tra gli assi principali.</b> Offset between main axis</p>		<p><b>Ammesso</b> Allowed <math>F = \pm 0,02</math> <math>F1 = \pm 0,02</math></p> <p><b>Rilevato</b> Checked</p> <p><math>F = 0,010</math></p> <p><math>F1 = 0,006</math></p>			

### RODAGGIO TESTA - RUN-IN

RPM in entrata RPM	Durata Time	Temperatura Ambiente Room Temperature	Temperatura Sonda Sensor Temperature	Note Notes
500	00:40:00	28°	39,5°	
1000	00:17:00		47°	
1500	00:17:00		55°	
2000	00:59:00		47,5°	
2500	1:10:00		53°	

<b>Revisioni - Revisions</b>	<b>Timbro - Stamp</b>	<b>Data - Date</b>
		<b>Firma - Signature</b>

# GRUPPO ANTIROTANTE - GRUPPO PERNO ANTIROTATION GROUP - PIN GROUP



MOLTIPLICATORE DI GIRI SPINDLE SPEEDERS		KIT INTERFACCIA INTERFACE KIT		GRUPPO CONO SHANK GROUP		GRUPPO PERNO PIN GROUP		PERNO DI SGANCIO RELEASE PIN				
MODELLO MODEL	TIPO TYPE	Code		Code		MODELLO MODEL	Code	P		Code	P	L
GSS-10 HS GSS-13 GSS-16	1	9.GA1.SK3065		9.SK30.1GSS		<b>SK</b> DIN 69871  30/40/50	9.F18.HS65			9.GS18.P175		
		9.GA1.SK4065		9.SK40.1GSS			9.F18.10.HS80	Ø18		9.GS18.P175	Ø18	
		9.GA1.SK5080		9.SK50.1GSS			9.F18.10.HS110			9.GS18.P175		
		9.GA1.CT4065		9.CT40.1GSS			9.F28.10.HS110	Ø28		9.GS28.P175	Ø28	
		9.GA1.CT5080		9.CT50.1GSS			9.F18.101365			9.GS18.P175		
		9.GA1.BT4065		9.BT40.1GSS			9.F18.101380	Ø18		9.GS18.P175		
		9.GA1.BT5080		9.BT50.1GSS			9.F18.101310			9.GS18.P175		
		9.GA1.HSK6365		9.HSK63.1GSS			9.F28.1013110	Ø28		9.GS28.P175	Ø28	
		9.GA1.HSK8080		9.HSK80.1GSS			9.F18.1680	Ø18		9.GS18.P175	Ø18	
		9.GA1.HSK10080		9.HSK100.1GSS			9.F18.16110			9.GS18.P175		
GSS-20	2	9.GA1.C56500		9.C5.1GSS		<b>CAT</b> ANSI B5.50  40/50	9.F18.101380			9.GS18.P175		
		9.GA1.C68000		9.C6.1GSS			9.F18.1013110			9.GS18.P175		
		9.GA1.C88000		9.C8.1GSS			9.F28.1013110	Ø28		9.GS28.P175	Ø28	
		9.GA1.KM6365		9.KM63.1GSS			9.F18.1680	Ø18		9.GS18.P175	Ø18	
		9.GA1.KM8080		9.KM80.1GSS			9.F18.16110			9.GS18.P175		
		9.GA1.KM10080		9.KM100.1GSS		<b>ISO</b> DIN 2080  30/40/50	9.F28.16110	Ø28		9.GS28.P175	Ø28	
		9.GA1.20804065		9.208040.1GSS			9.F18.2080			9.GS18.P185		
		9.GA1.20805080		9.208050.1GSS			9.F18.20110	Ø18		9.GS18.P260	Ø18	
		9.GA2.SK5080		9.SK50.2GSS			9.F28.20110			9.GS28.P260	Ø28	
		9.GA2.CT5080		9.CT50.2GSS			9.F28.20110	Ø28		9.GS28.P260	Ø28	
GSS-26 GSS-34	3	9.GA2.BT5080		9.BT50.2GSS		<b>HSK</b> DIN 69893  63/80/100	9.F28.26110			9.GS28.P275	Ø28	27,5
		9.GA2.HSK8080		9.HSK80.2GSS			9.F28.34125	Ø28		9.GS28.P275	Ø28	
		9.GA2.HSK10080		9.HSK100.2GSS								
		9.GA2.C68000		9.C6.2GSS								
		9.GA2.C88000		9.C8.2GSS								
		9.GA2.KM8080		9.KM80.2GSS		<b>C.</b> ISO 26623  C5/C6/C8						
		9.GA2.KM10080		9.KM100.2GSS								
		9.GA2.20805080		9.208050.2GSS								
		9.GA3.SK50110		9.SK50.2GSS								
		9.GA3.CT50110		9.CT50.2GSS								

**ATTENZIONE:** Sui moltiplicatori è sconsigliabile effettuare il cambio di interasse "H"  
ATTENTION: On spindle speeders it is not suggested to change pitch dimension "H"

**PERNO SPECIALE:**  
SPECIAL PIN:

## ESEMPIO di MONTAGGIO 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

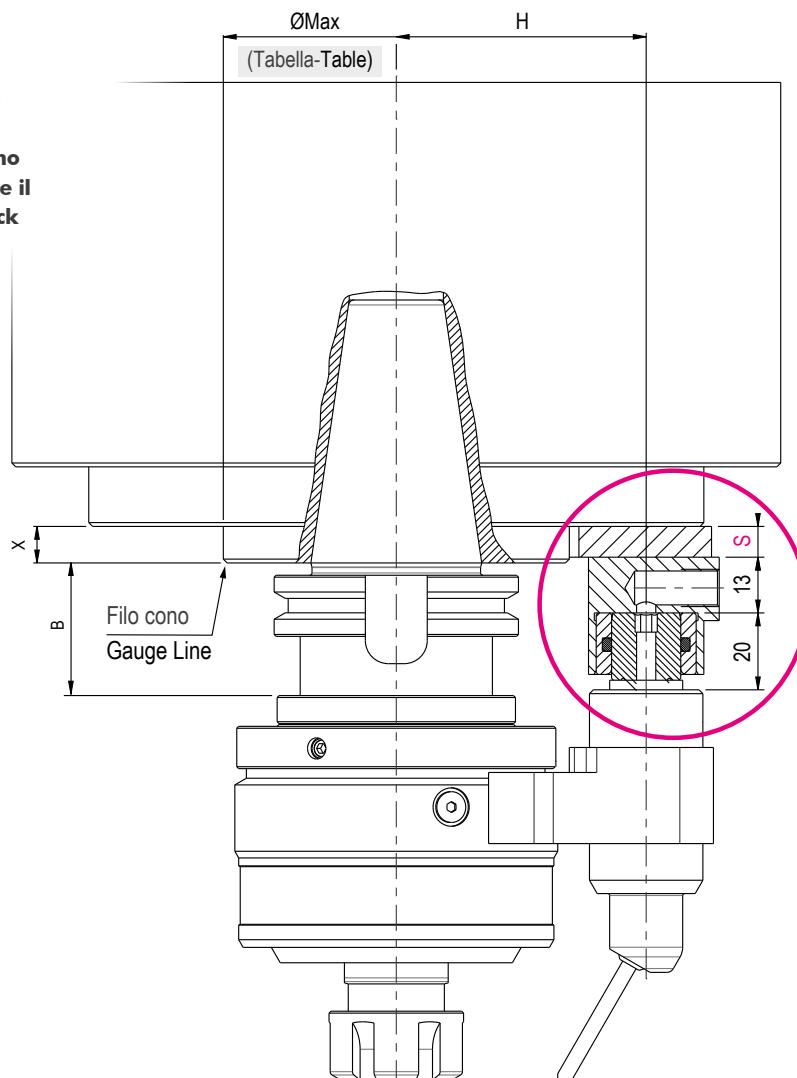
- For Gerardi items, please indicate the type of Angle Head, the H dimension, the pin diameter and height.
- For non-Gerardi items, please send us the stop-block and the machine spindle drawings in order to design the right pin. If possible, we suggest you to use Gerardi standard stop block, taking off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

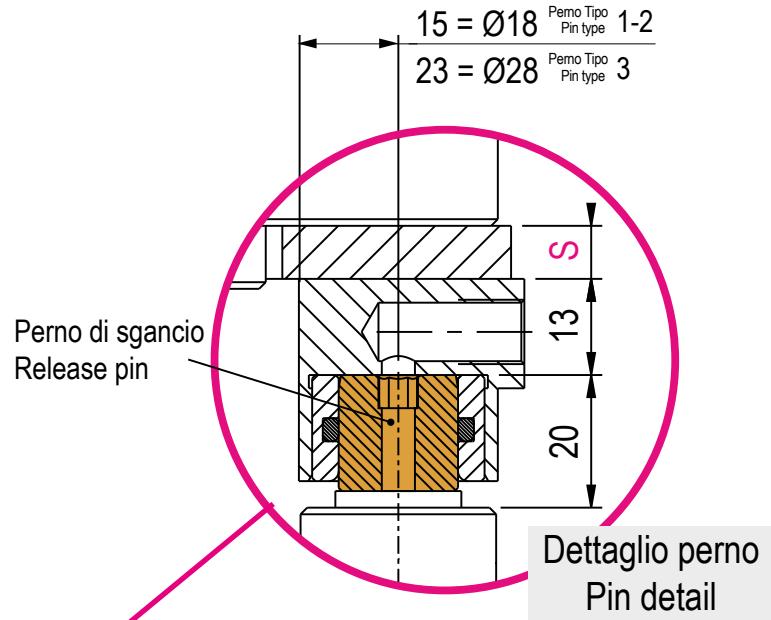
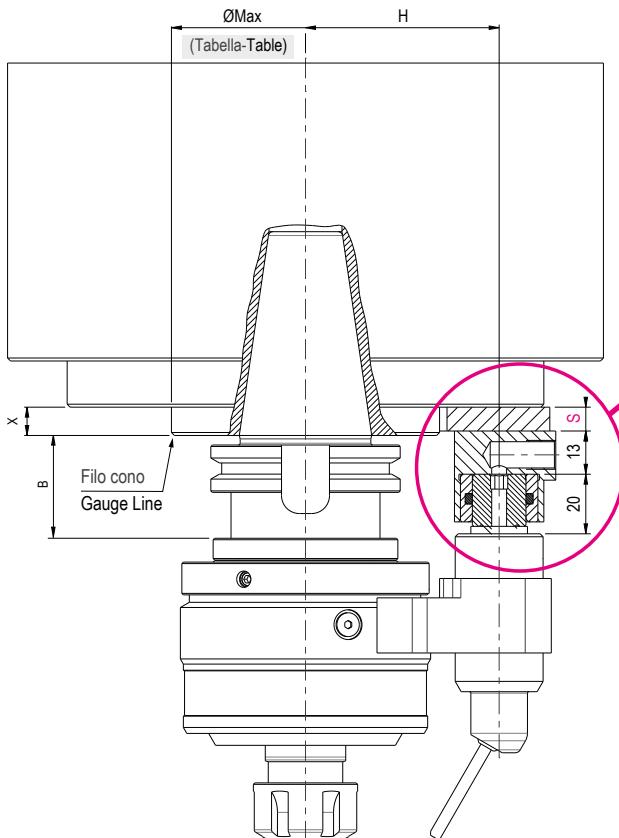
## ESEMPIO di MONTAGGIO MOUNTING EXAMPLE

**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	$\varnothing$ MAX
$\varnothing$ 18	65	99
	80	129
	110	189
$\varnothing$ 28	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.

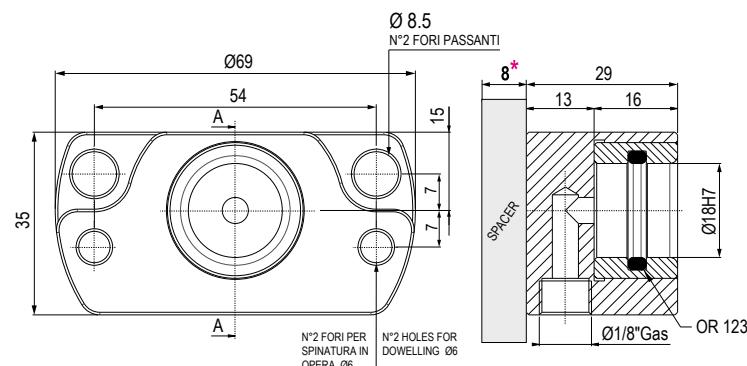
## STOP-BLOCK Standard



**Ø18**

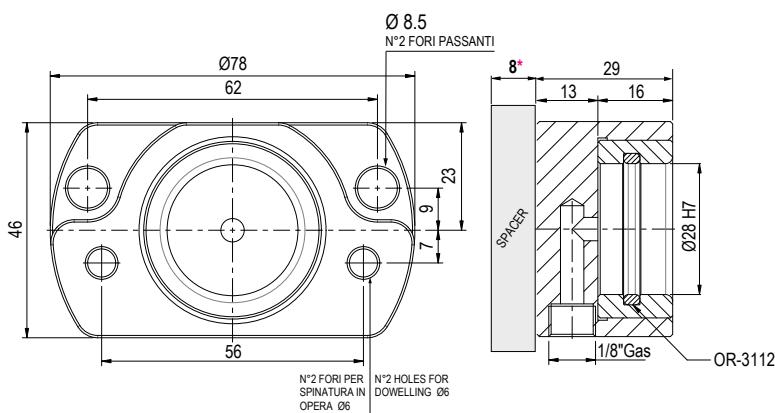
Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.INDEX.18	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2	



Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.INDEX.28	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2	



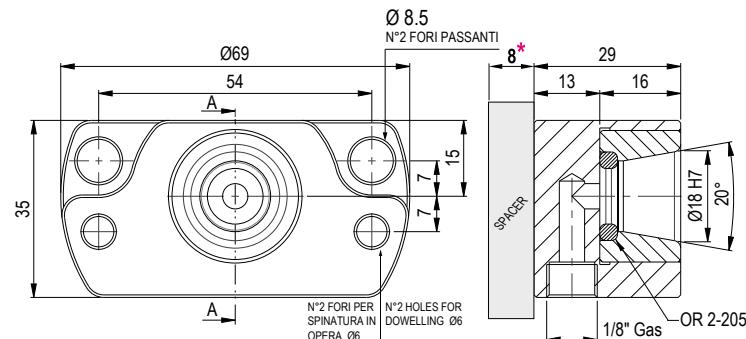
## STOP-BLOCK Conico - Conical



**Ø18**

Con bussola temprata - with hardened bushing

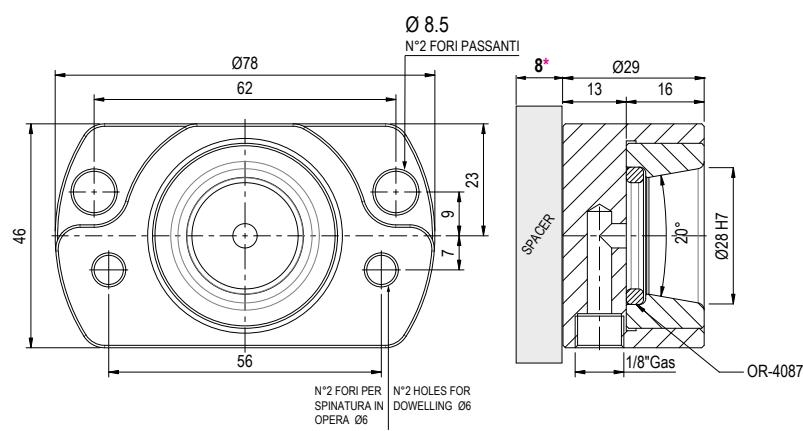
<b>STOP BLOCK</b> Code	
9.INDEX.18C	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2C	



**Ø28**

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.INDEX.28C	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> 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

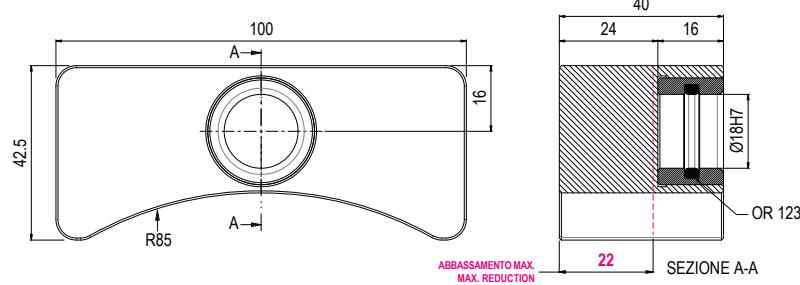
## STOP-BLOCK Lavorabile\*\* - Machineable\*\*



Ø18

Con bussola temprata - with hardened bushing

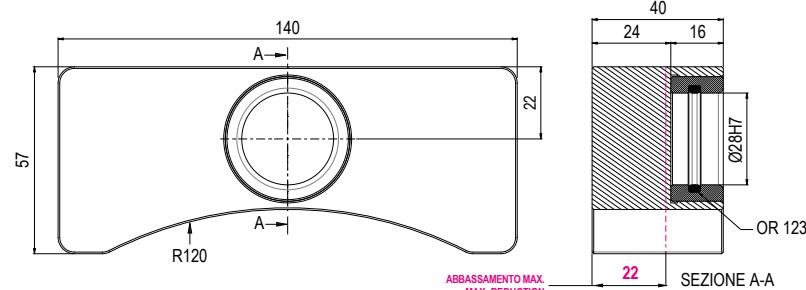
<b>STOP BLOCK</b> Code	
9.G18.INDEX	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2	



Ø28

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.G28.INDEX	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2	



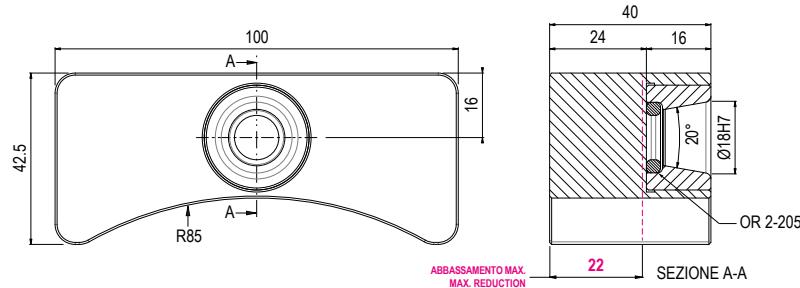
## STOP-BLOCK Lavorabile conico\*\* - Conic machineable\*\*



Ø18

Con bussola temprata - with hardened bushing

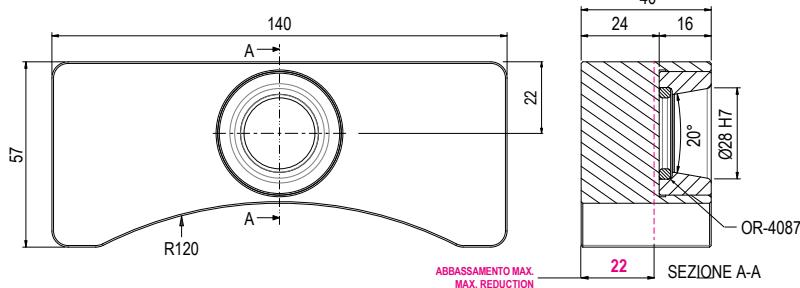
<b>STOP BLOCK</b> Code	
9.G18.INDEXC	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G18.INDEX.2C	



Ø28

Con bussola temprata - with hardened bushing

<b>STOP BLOCK</b> Code	
9.G28.INDEXC	
NO STOP BLOCK INCLUDED	
<b>BUSHING</b> Code	
9.G28.INDEX.2C	



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

## PINZE - COLLETS ER-DIN 6499



**Foratura-fresatura / drilling-milling**

MODELLO MODEL	PINZA COLLET	Ø	Code	
GSS - 10 HS OPTION 70BAR	ER16 WP	Ø1 / 10	9.ER.16WP0/...	
	ER16 HP	Ø1 / 10	9.ER.16HP0/...	
GSS - 13	ER20 HP	Ø1 / 13	9.ER.20HP0/...	
GSS - 16	ER25 HP	Ø1 / 16	9.ER.25HP0/...	
GSS - 20	ER32 HP	Ø2 / 20	9.ER.32HP0/...	
GSS - 26	ER40 HP	Ø3 / 26	9.ER.40HP0/...	
GSS - 26 OPTION 70BAR	ER40 WP	Ø3 / 26	9.ER.40WP0/...	
GSS - 34	ER50 HP	Ø6 / 34	9.ER.50HP0/...	
GSS - 34 OPTION 70BAR	ER50 WP	Ø6 / 34	9.ER.50WP0/...	

**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 BILANCIATE** **BALANCED NUTS**

## **CHIAVI - WRENCHES**


**STD**

**HS**

<b>MODELLO MODEL</b>	<b>TIPO GHIERA NUTS TYPE</b>	<b>Code</b>	<b>COPPIA SERRAGGIO CLAMPING FORCE (Nm)</b>	
GSS - 10 - HS	<b>ER16 HS</b>	9.ER.160HS	24 (30)	
GSS - 13	<b>ER20 STD</b>	9.ER.20STD	28 (35)	
GSS - 16	<b>ER25 STD</b>	9.ER.25STD	32 (40)	
GSS - 20	<b>ER32 STD</b>	9.ER.32STD	136 (70)	
GSS - 26	<b>ER40 STD</b>	9.ER.40STD	176 (220)	
GSS - 26 OPTION 70BAR	<b>ER40 STD</b>	9.ER.40STD	176 (220)	
GSS - 34	<b>ER50 STD</b>	9.ER.50STD	240 (300)	
GSS - 34 OPTION 70BAR	<b>ER50 STD</b>	9.ER.50STD	240 (300)	



<b>CHIAVI WRENCHES</b>	<b>Code</b>	
CH-15 HS	9.CH.150HS	
CH-27 ES	9.CH.270ES	
CH-20 STD	9.CH.20STD	
CH-36 ES	9.CH.360ES	
CH-25 STD	9.CH.25STD	
CH-32 STD	9.CH.32STD	
CH-40 HS	9.CH.400ES	
CH-40 STD	9.CH.40STD	
CH-52 ES	9.CH.520ES	
CH-40 STD	9.CH.40STD	
CH-52 ES	9.CH.520ES	
CH-50 STD	9.CH.50STD	
CH-65 ES	9.CH.650ES	
CH-50 STD	9.CH.50STD	
CH-65 ES	9.CH.650ES	

# CAMBI RAPIDI MODULARI 2.0 MODULAR QUICK CHANGE ADAPTORS 2.0

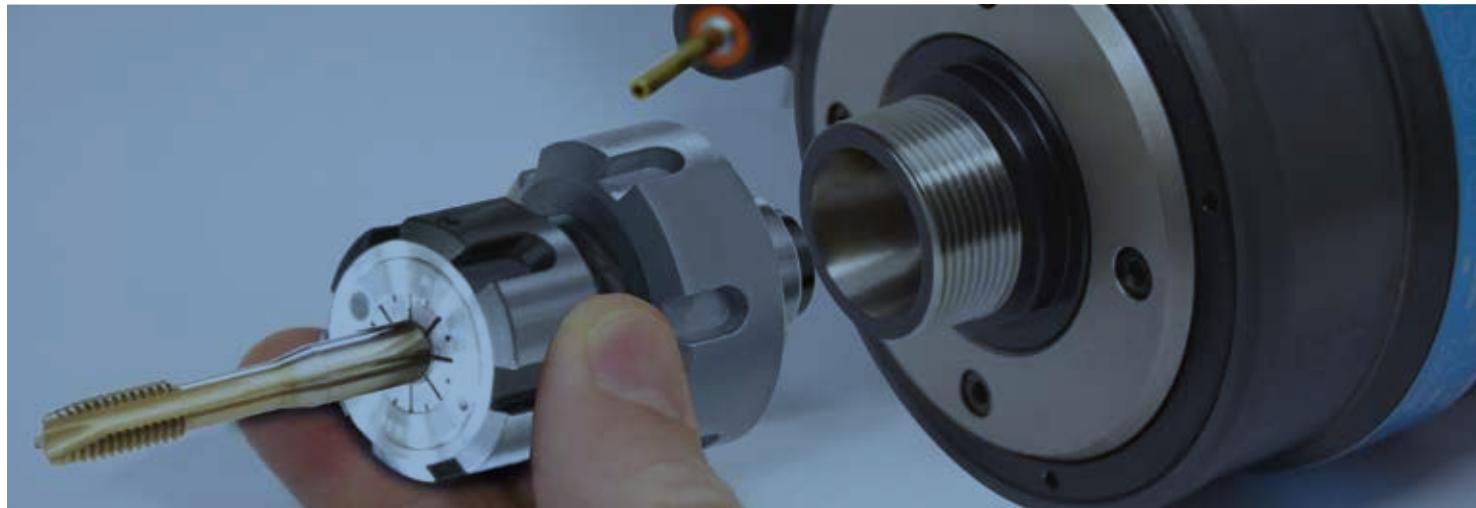
NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



## Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

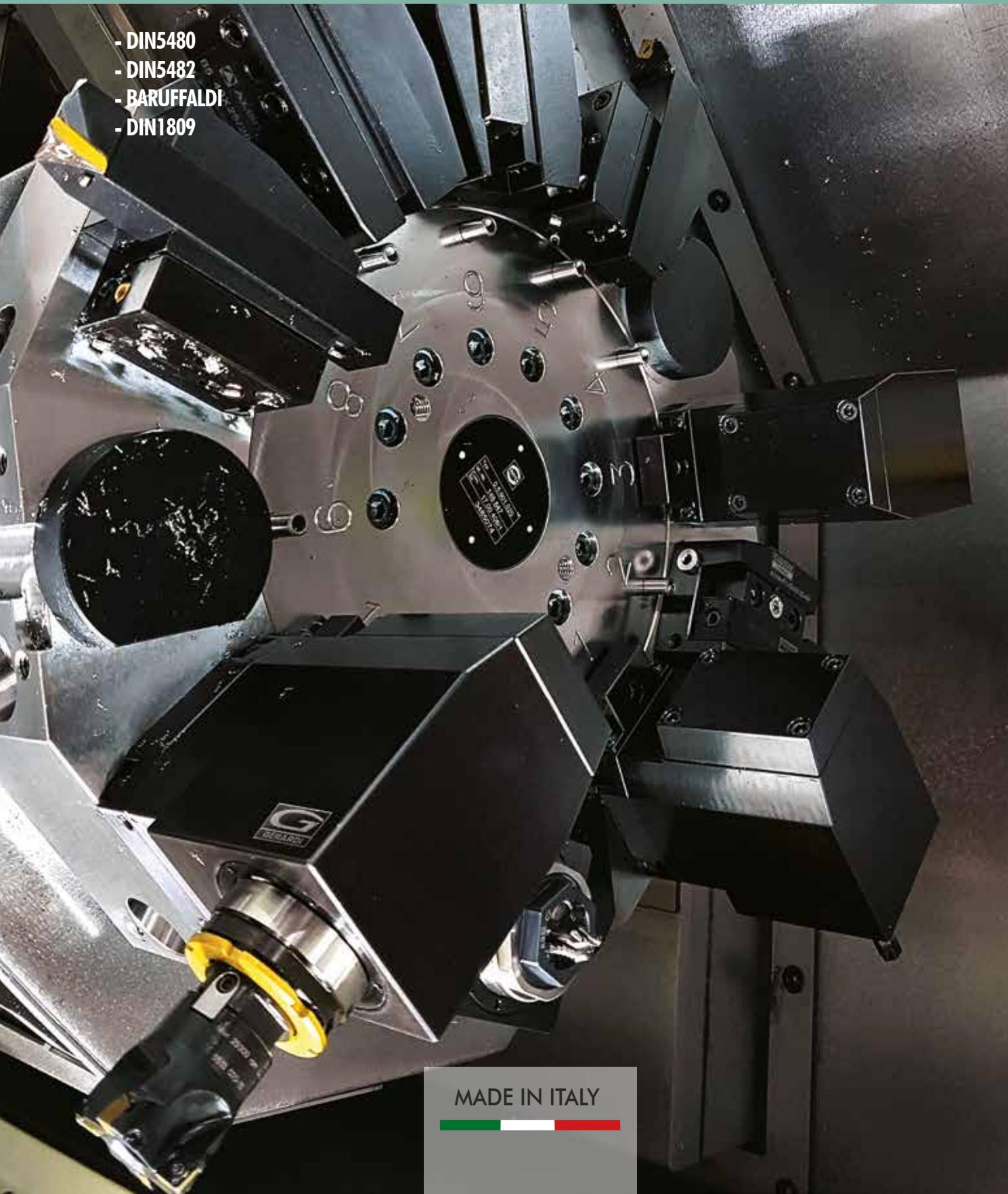
I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output



VDI  
**MOTORIZZATI - DRIVEN TOOLS**

- DIN5480
- DIN5482
- BARUFFALDI
- DIN1809



MADE IN ITALY



# INDICE - INDEX

PAGE 4.11 - 4.20

## DIN5480 DRIVEN TOOLS

<b>ASSIALE PORTA PINZA</b> AXIAL COLLET CHUCK	<b>DOPPIO RADIALE PORTA PINZA</b> DOUBLE RADIAL COLLET CHUCK
<b>ASSIALE PORTA FRESA</b> AXIAL SHELL END MILLING CUTTER	<b>DISASSATO PORTAPINZA</b> OFFSET AXIS COLLET CHUCK
<b>RADIALE PORTA PINZA</b> RADIAL COLLET CHUCK	<b>DISASSATO PORTA FRESA</b> OFFSET AXIS SHELL END MILLING CUTTER
<b>RADIALE PORTA FRESA</b> RADIAL SHELL END MILLING CUTTER	<b>ORIENTABILE ±90°</b> ADJUSTABLE ±90°
<b>ARRETRATO PORTA PINZA</b> REAR OFFSET COLLET CHUCK	

PAGE 4.29 - 4.38

## BARUFFALDI DRIVEN TOOLS

4

<b>ASSIALE PORTA PINZA</b> AXIAL COLLET CHUCK	<b>RADIALE DOPPIO PORTA PINZA</b> DOUBLE RADIAL COLLET CHUCK
<b>ASSIALE PORTA FRESA</b> AXIAL SHELL END MILLING CUTTER	<b>ORIENTABILE ±90°</b> ADJUSTABLE ±90°
<b>RADIALE PORTA PINZA</b> RADIAL COLLET CHUCK	
<b>RADIALE PORTA FRESA</b> RADIAL SHELL END MILLING CUTTER	
<b>ARRETRATO PORTA PINZA</b> REAR OFFSET COLLET CHUCK	
<b>ARRETRATO PORTA FRESA</b> REAR OFFSET SHELL END MILLING CUTTER	

PAGE 4.44 - 4.48

## ACCESSORIES DRIVEN TOOLS

<b>PINZE ER-DIN6499 / ET-1 / WP</b> ER-DIN / ET-1 / WP COLLETS	<b>GHIERA MINI</b> NUT MINI TYPE	<b>CHIAVE PER BLOCCAGGIO PORTAUTENSILE ROTANTE</b> DRIVEN TOOLS LOCK WRENCH
<b>GHIERE ZZ / ES</b> ZZ / ES NUTS	<b>CHIAVI PER GHIERE NUT</b> WRENCHES FOR NUT MINI TYPE	<b>UGELLO DI REFRIGERAZIONE</b> COOLING NOOZLE
<b>CHIAVI PER GHIERE ZZ / ES</b> WRENCHES FOR ZZ / ES NUTS	<b>VITE DI CHIUSURA PORTA FRESA</b> SHELL END MILLING CUTTER LOCK SCREW	<b>SFERA UGELLO</b> NOOZLE BALL PIN
<b>GHIERE EF / EZ</b> EF / EZ NUTS	<b>CHIAVE PER VITE DI CHIUSURA PORTA FRESA</b> WRENCH FOR SHELL END MILLING CUTTER LOCK SCREW	<b>PROLUNGHE PER UGELLO DI REFRIGERAZIONE</b> COOLING NOOZLE EXTENSIONS
<b>CHIAVI PER GHIERE EF / EZ</b> WRENCHES FOR EF / EZ NUTS	<b>CHIAVE PER VITE DI CHIUSURA PORTA FRESA</b> WRENCH FOR SHELL END MILLING CUTTER LOCK SCREW	

PAGE 4.21 - 4.28

## DIN5482 DRIVEN TOOLS

**ASSIALE PORTA PINZA**

AXIAL COLLET CHUCK

**ASSIALE PORTA FRESA**

AXIAL SHELL END MILLING CUTTER

**RADIALE PORTA PINZA**

RADIAL COLLET CHUCK

**RADIALE PORTA FRESA**

RADIAL SHELL END MILLING CUTTER

**ARRETRATO PORTA PINZA**

REAR OFFSET COLLET CHUCK

**ARRETRATO PORTA FRESA**

REAR OFFSET SHELL END MILLING CUTTER

**ORIENTABILE ±90°**

ADJUSTABLE ±90°

PAGE 4.39 - 4.43

## DIN1809 DRIVEN TOOLS

**ASSIALE PORTA PINZA**

AXIAL COLLET CHUCK

**RADIALE PORTA PINZA**

RADIAL COLLET CHUCK

**ARRETRATO PORTA PINZA**

REAR OFFSET COLLET CHUCK

**ORIENTABILE ±90°**

ADJUSTABLE ±90°

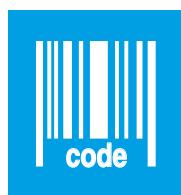


PIÙ SEMPLICE / PIÙ INFO / PIÙ PRODOTTI - EASIER / MORE INFO / MORE PRODUCTS

TROVA IL TUO PRODOTTO IN POCHE CLICK - FIND YOUR PRODUCT IN FEW CLICKS



by category



by code



by description



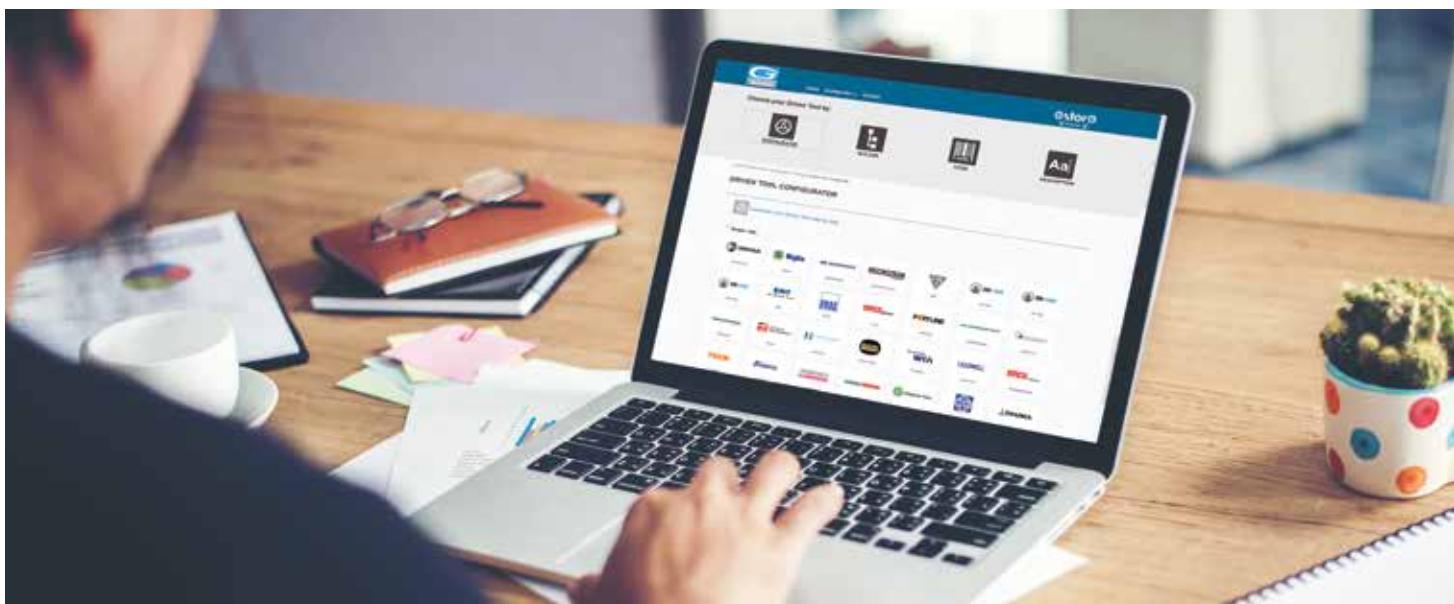
by configurator

**Un nuovo modo facile e veloce per ordinare la tua attrezzatura Gerardi**

**Il nuovo Gerardi estore offre la possibilità di visualizzare e ordinare qualsiasi articolo Gerardi appartenente alle categorie Workholding o Tooling presente sui nostri listini in modo semplice, veloce e completo. Da ora puoi ordinare la morsa, la testa angolare o il motorizzato che ti interessa direttamente on-line dal nostro estore senza costi aggiuntivi.**

**A new quick and easy way to order your equipment branded Gerardi.**

The new Gerardi estore offers the ability to view and order any item available on our Workholding and Tooling catalogues with the easiest, fastest and comprehensive way. You can now order the vise, angle head or driven tool of your interest directly online from our store without any additional cost.



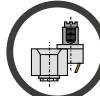
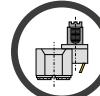
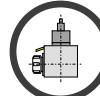
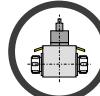
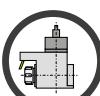
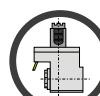
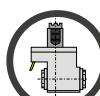
WINDOWS / IOS



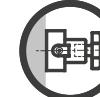
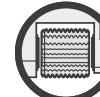
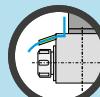
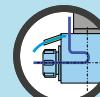
ANDROID / IPHONE



## SIMBOLI TIPOLOGIE MOTORIZZATI DRIVEN TOOLS DESIGN LOGOS

							
<b>Assiale</b> Axial	<b>Assiale doppio</b> Double Axial	<b>Disassato</b> Offset Axis	<b>Disassato Doppio</b> Double Offset Axis	<b>Radiale</b> Radial	<b>Radiale Doppio</b> Double Radial	<b>Radiale 4 Uscite</b> Radial 4 Outputs	<b>Radiale 8 Uscite</b> Radial 8 Outputs
							
<b>Radiale Rovesciato</b> Radial Upside Down	<b>Arretrato</b> Rear Offset	<b>Arretrato Doppio</b> Double Rear Offset	<b>Orientabile ±90°</b> Adjustable ±90°	<b>Portacreatore</b> Driven Gear Hobber			

## SIMBOLOGIA DATI TECNICI TECHNICAL DATA LOGOS

<b>USCITA</b> OUTPUT						
PASSAGGIO REFRIGERANTE COOLANT						
				<b>Refrigerante Esterno</b> External Coolant	<b>Refrigerante Interno</b> Internal Coolant	<b>ReCool NUT</b>
				20 / 25 / 80 100bar		
<b>USCITA</b> OUTPUT						
			<b>Rapporto</b> Ratio	<b>Rotazione uguale al mandrino</b> Rotation same as machine spindle	<b>Rotazione opposta al mandrino</b> Rotation opposite as machine spindle	<b>Rotaz. uguale ed opposta al mandrino</b> Rotation same & opposite as machine spindle

## Portautensili motorizzati per torni CNC

I portautensili motorizzati per centri di tornitura a controllo numerico consentono di eseguire lavorazioni di fresatura, foratura e maschiatura sul tornio stesso e senza ulteriori piazzamenti. Anche in questo caso Gerardi propone un'ampia gamma di modelli, adatti ad attrezzare i torni e le torrette motorizzate dei maggiori costruttori di torni a livello mondiale con un rapporto qualità/prezzo insuperabile.

## Caratteristiche tecniche principali

- 1- Corpo portautensili a sezione maggiorata per garantire maggior rigidità e minori vibrazioni
- 2- Trattamento protettivo anti-ossidante del corpo
- 3- Cuscinetti a contatto obliqui, precaricati, di precisione e lubrificati con grasso a vita.
- 4- Coppia conica di ingranaggi spiroidali Gleason con evolvente rettificato ottimizzato
- 5- Coppia disponibile 70Nm / Rpm Max 6000
- 6- Pressione liquido refrigerante fino a 100bar
- 7- 100% Made in Italy, progettati e interamente realizzati in Italia
- 8- Garanzia 24 mesi

## Gamma di motorizzazioni

Le tipologie di motorizzati costruiti su scala standard sono quelli da montare sulle seguenti marche di Torni e torrette unificate.

### TORNI CHE MONTANO TORRETTE UNIFICATE VDI:

**VDI 5480**



**VDI 5482**



**BARUFFALDI**



**VDI 1809**



### Opzioni

#### ALTA VELOCITÀ RATIO 1:4

(Opzione di moltiplica del numero di giri dalla torretta del tornio da 2 a 4 volte). Su richiesta, quasi tutti i modelli di motorizzati sono fornibili con velocità di rotazione fino a 24.000 Rpm.

Questa soluzione permette di adeguare il numero di giri della torretta alle velocità di taglio delle nuove tipologie di utensili in commercio. Il sistema epicloidale (interno) consente di mantenere inalterate le dimensioni di ingombro dei vari modelli, senza quindi penalizzare in alcun modo la funzionalità della macchina.

**N.B:** I MOTORIZZATI STANDARD CON RAPPORTO 1:1 HANNO REGIME DI ROTAZIONE MAX. 6.000 RPM.

### TORNI CNC:



#### REFRIGERANTE INTERNO

Tutti i motorizzati possono essere forniti con passaggio refrigerante attraverso l'albero utensile fino a 100bar.

#### USCITE MULTIPLE

Tutti i motorizzati, ad esclusione di quelli ad angolo variabile, possono essere forniti con doppia pinza contrapposta anche di pari grandezza. Sono stati realizzati per i modelli di tornio più recenti anche motorizzati assiali con doppia / tripla uscita frontale e radiali doppia uscita frontale.

#### MASCHIATURA

Per le operazioni di maschiatura, tutti i nostri motorizzati possono utilizzare pinze compensate ET-1 perfettamente intercambiabili con le normali pinze secondo norma DIN 6499. Esse consentono una compensazione assiale da 7 a 13 mm a seconda della grandezza per recuperare eventuali errori di avanzamento e per l'inversione della rotazione.

## Driven Tools for CNC lathes

Driven tools for CNC turning centres allows milling, drilling and tapping operations on the lathes without additional parts handling. Also in this case Gerardi can supply a wide range of types in order to equip the CNC lathes and turrets of the most popular builders on the market with an unbeatable price/quality ratio.

## Main technical features

- 1- Re-designed main body to improve rigidity and reduce vibration
- 2- Specially treated corrosion resistant steel body
- 3- Preloaded angular contact ball bearings precision and long life lubrication.
- 4- Gleason spiral bevel gears with completely ground involute form
- 5- Rated to 70Nm torque and 6000 Rpm
- 6- Internal coolant option - up to 100bar
- 7- Designed, Manufactured and assembled in Italy
- 8- 2 Year guarantee

## Range of driven tools types

The range of standard types of driven tools are designed for assembling on the following brands of CNC lathes or turrets builders

### TORNI CHE MONTANO

### TORRETTE UNIFICATE VDI:

VDI 5480



VDI 5482



BARUFFALDI



VDI 1809



### CNC LATHE



## Options

### HIGH SPEED RATIO 1:4

All the driven tools types are available with speed until 24.000 Rpm. There is also the possibility of speed increaser from 2 to 4 times thus adapting the Rpm of the turret drive to the speed of today's cutting tools. The epicyclic speed increaser system (a system of satellite gears) is self contained in the standard head overall dimensions and guarantees the same standards of quality and reliability.

**ATTENTION: THE STANDARD ROTARY TOOLS WITH 1:1 RATIO HAVE A MAX SPEED OF 6.000 Rpm**

### INTERNAL COOLANT

All the driven tools, can be supplied with coolant feed through the spindle with rotating distributor upto 100 bar.

### MULTIPLE OUTPUTS

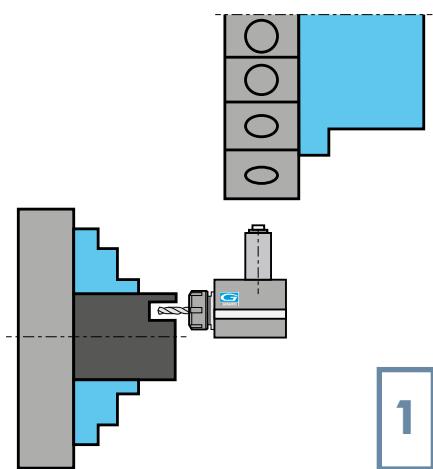
All the driven tools, with the exception of those with adjustable angle, can be supplied with double or multiple output even of the same dimension. Multiple outputs can be opposite or with the same direction.

### TAPPING

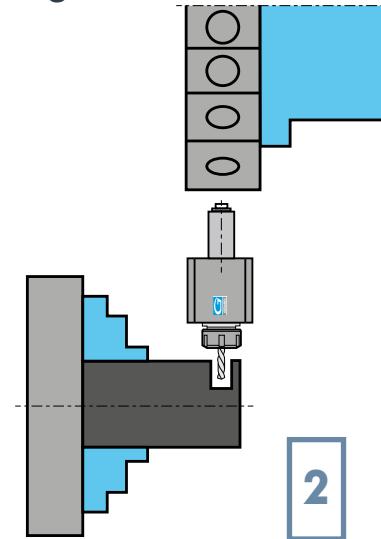
For tapping operations all driven tools can be equipped with axially compensated collets ET-1 interchangeable with the standard ER collets according the international standard DIN 6499. They allow the tap an axial compensation from 7 to 13 mm according to their size in order to compensate any feed error and the inversion of the rotation of direction.

## DENOMINAZIONE UTENSILE TOOL DESIGNATION

### Montaggio TANGENZIALE - OD Mounting

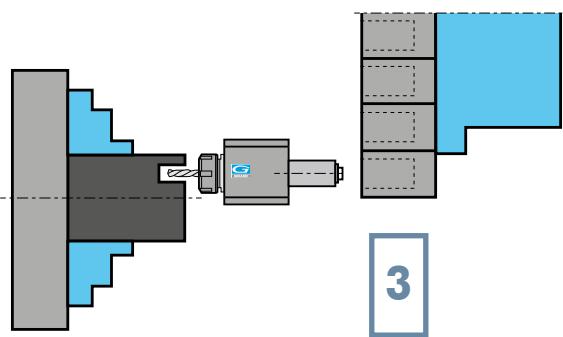


**1** Motorizzato RADIALE per lavorazioni assiali  
RADIAL driven tool for axial machining

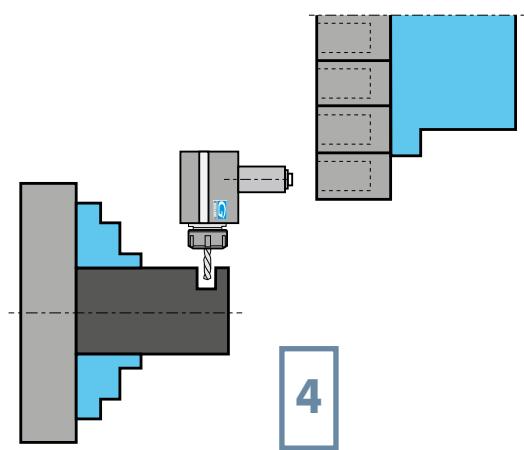


**2** Motorizzato ASSIALE per lavorazioni radiali  
AXIAL driven tool heads for radial machining

### Montaggio FRONTALE - FACE Mounting



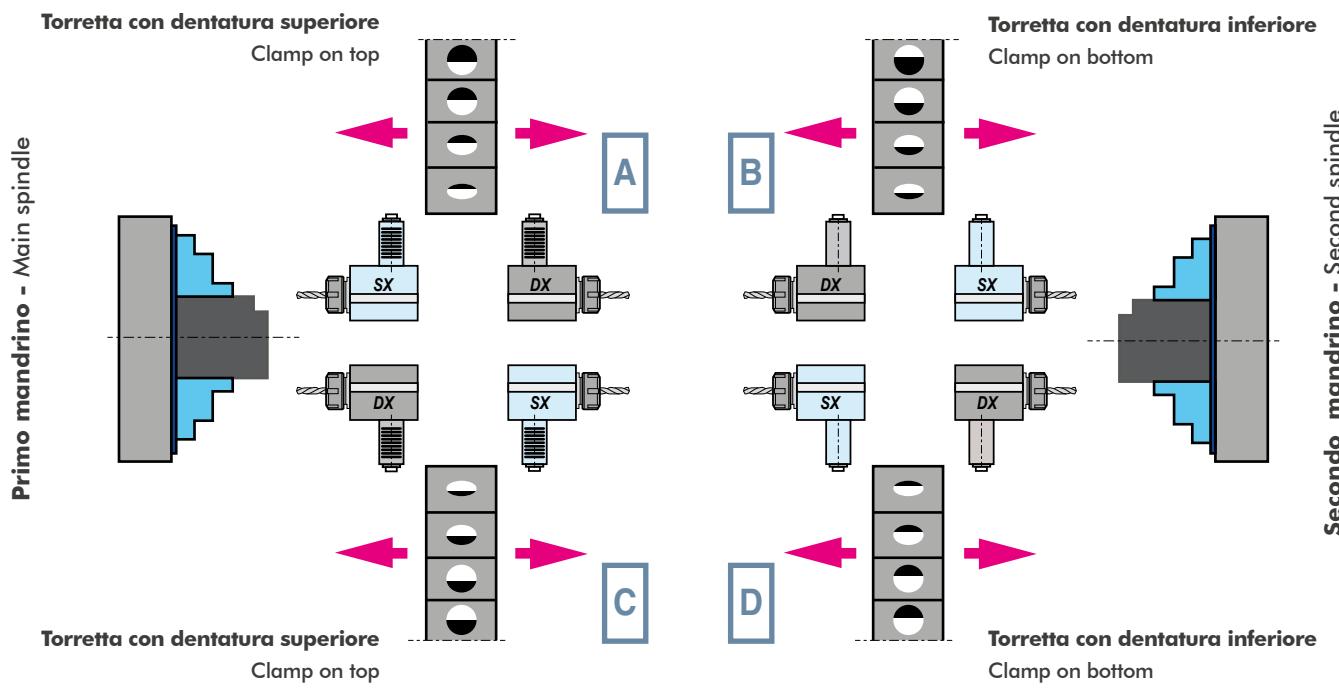
**3** Motorizzato ASSIALE per lavorazioni assiali  
AXIAL driven tool for axial machining



**4** Motorizzato RADIALE per lavorazioni radiali  
RADIAL driven tool heads for radial machining

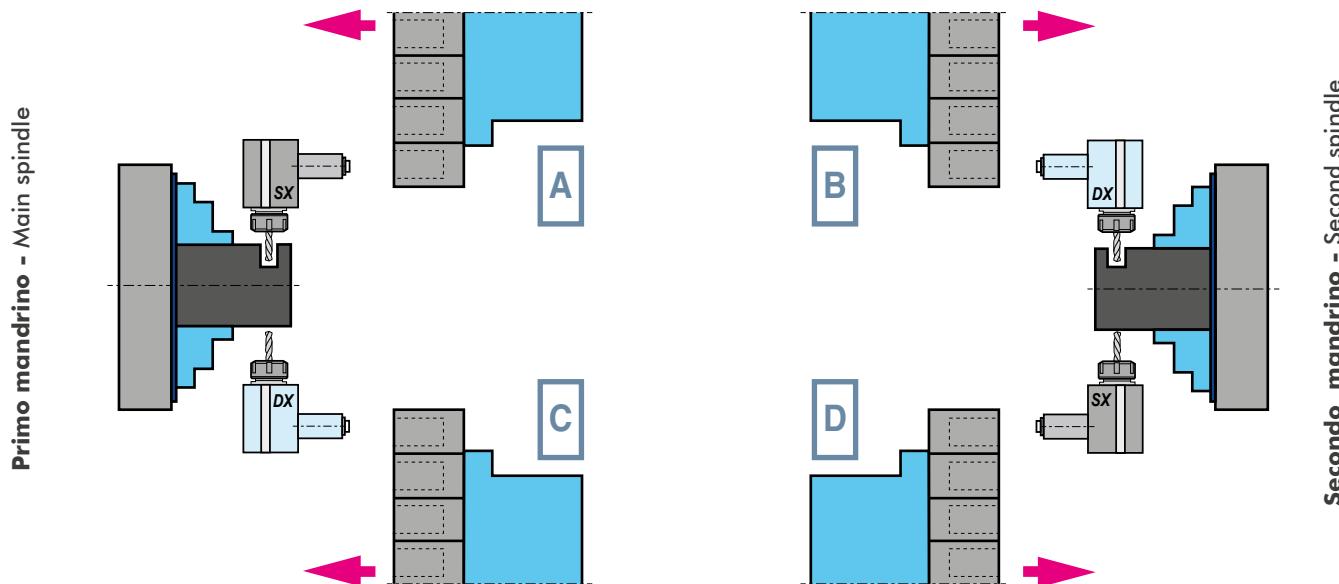
## MOTORIZZATI RADIALI PER LAVORAZIONI ASSIALI RADIAL DRIVEN TOOLS FOR AXIAL MACHINING

### Montaggio TANGENZIALE - OD Mounting



## MOTORIZZATI RADIALI PER LAVORAZIONI RADIALI RADIAL DRIVEN TOOLS FOR RADIAL MACHINING

### Montaggio FRONTALE - FACE Mounting



# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

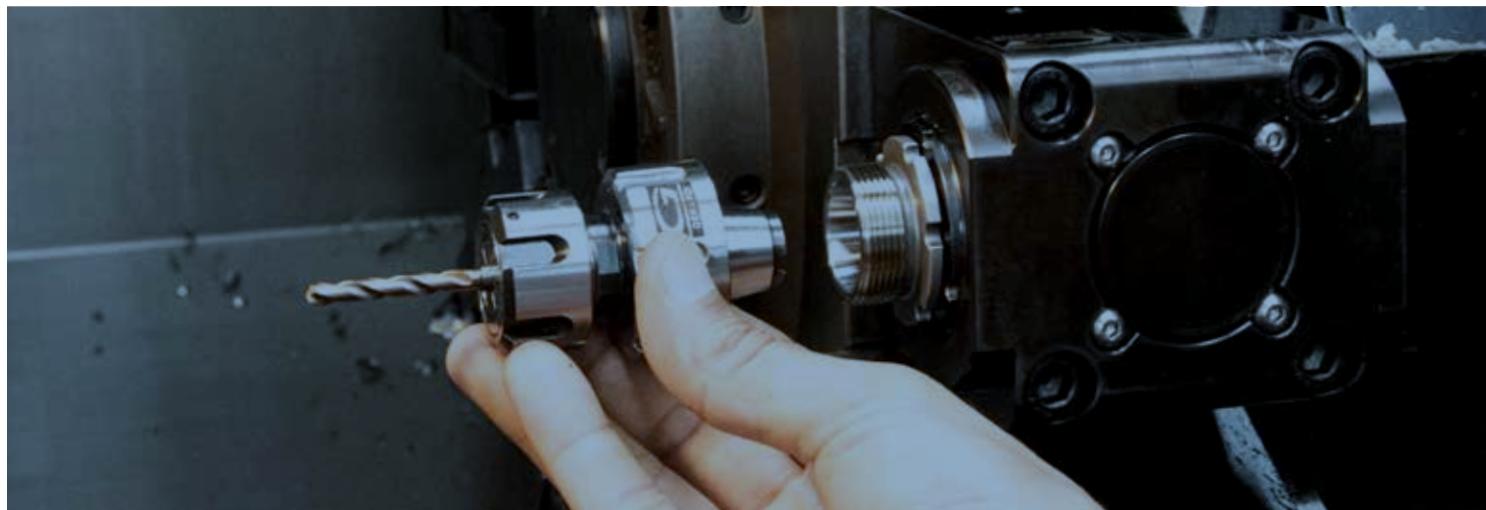
NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

## DIN 5480 VDI DRIVEN TOOLS



**DIN 5480**



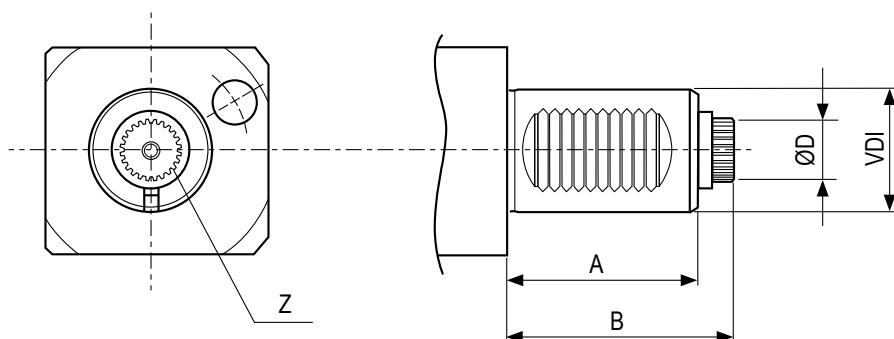
DIN 5482



BARUFFALDI



DIN 1809



VDI	A	B	ØD	Z (N° denti - Teeth)
20	35	51	10,8	12
25	48	57	13,8	16
30	55	67	15,8	18
40	63	75	19,8	24
50	78	93	23,8	18



### DOTAZIONE STANDARD STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH /  
ugello refrigerazione Art.180 / vite bloccaggio motorizzato  
Art.179CH shaft lock wrench /  
cooling nozzle Art.180 / nozzle lock screws



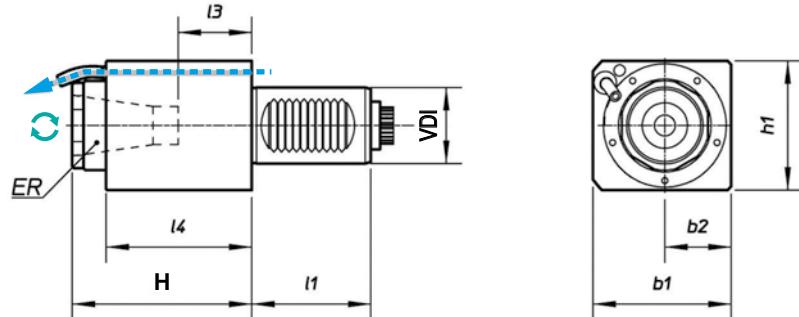
### CAMBI RAPIDI MODULARI Vedi pag. 4.10 MODULAR QUICK CHANGE See page 4.10

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

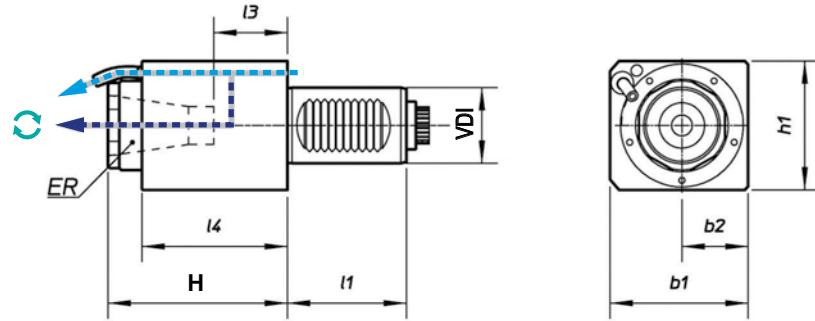
**VDI 20 / VDI 30 / VDI 40 / VDI 50**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3



TIPO - TYPE 	Assiale - Axial	USCITA - OUTPUT 	Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO  1:1	ROTAZIONE - ROTATION  Uguale al mandrino Same as machine spindle
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Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.ST.8002	25	ER-25 - Ø1÷16	NO	48	69	21	54,5	54	27	56	20	6.000	6	
99.ST.8003	30	ER-25 - Ø1÷16	NO	55	66	21	59	62	31	64	32	6.000	8	
99.ST.8004	30	ER-25 - Ø1÷16	NO	55	94	39	88	62	31	64	32	6.000	8	
99.ST.8005	40	ER-32 - Ø2÷20	NO	63	95	34	77	73	35	70	63	6.000	10	
99.ST.8006	40	ER-32 - Ø2÷20	NO	63	115	54	97	73	35	70	63	6.000	10	
99.ST.8007	50	ER-40 - Ø3÷30	NO	78	88	25	69	88	44	88	100	4.000	12	
99.ST.8008	50	ER-40 - Ø3÷30	NO	78	120	45	102	88	44	88	100	4.000	12	
99.ST.80101	60	ER-40 (Est- Ext)	NO	106,6	157,8	-	105	110	55	110	160	3.200	15	



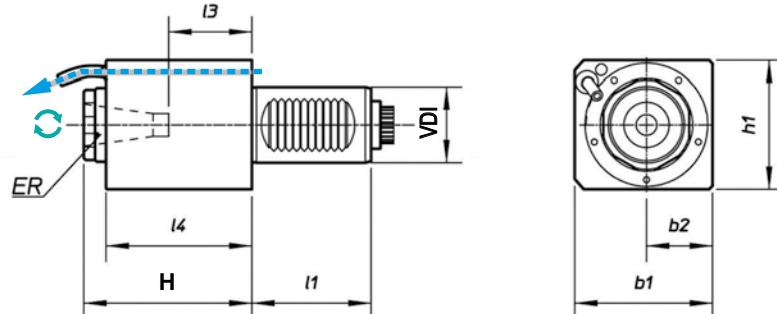
TIPO - TYPE 	Assiale - Axial	USCITA - OUTPUT 	Porta Pinza Collet Chuck	REFRIGERANTE COOLANT 25BAR	RATIO  1:1	ROTAZIONE - ROTATION  Uguale al mandrino Same as machine spindle
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Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.ST.8010	25	ER-25 - Ø1÷16	✓	48	89	41,5	74	54	27	56	32	6.000	6	
99.ST.8011	30	ER-25 - Ø1÷16	✓	55	66	21	59	62	31	64	32	6.000	8	
99.ST.8012	30	ER-25 - Ø1÷16	✓	55	94	39	88	62	31	64	32	6.000	8	
99.ST.8013	40	ER-32 - Ø2÷20	✓	63	95	34	77	73	35	70	63	6.000	10	
99.ST.8014	40	ER-32 - Ø2÷20	✓	63	115	54	97	73	35	70	63	6.000	10	
99.ST.8015	50	ER-40 - Ø3÷30	✓	78	120	45	102	88	44	88	100	4.000	12	
99.ST.8016	50	ER-40 - Ø3÷30	✓	78	155	45	112	88	44	88	100	4.000	12	
99.ST.80102	60	ER-40 (Est- Ext)	✓ (80bar)	106,6	157,8	-	105	110	55	110	160	3.200	15	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

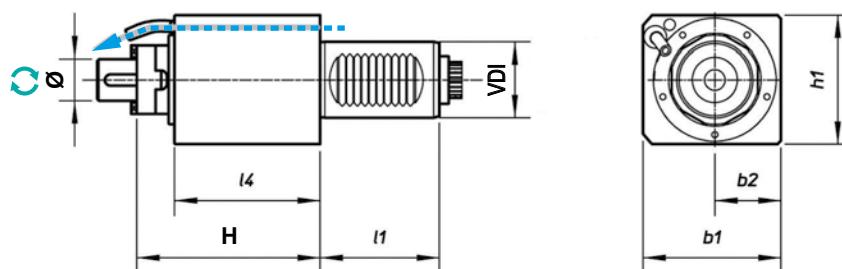
**VDI 20 / VDI 30 / VDI 40 / VDI 50**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3



TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:4	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	VDI	Output	Int Cool.	l1	H	l3	l4	b1	b2	h1	Nm	Rpm	kw	
99.ST.8018	25	ER-16-Ø1÷10	NO	48	98,5	60,5	89,5	54	27	56	5	24.000	3	
99.ST.8019	30	ER16-Ø1÷10	NO	-	100	-	-	62	31	64	32	20.000	-	
99.ST.8020	40	ER-20-Ø1÷13	NO	63	112,5	74,5	106	76	38	76	16	16.000	5	
99.ST.8021	50	ER-20-Ø1÷13	NO	78	128,5	88,5	122	88	44	88	25	16.000	6	



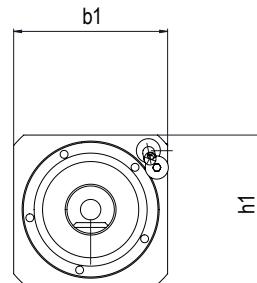
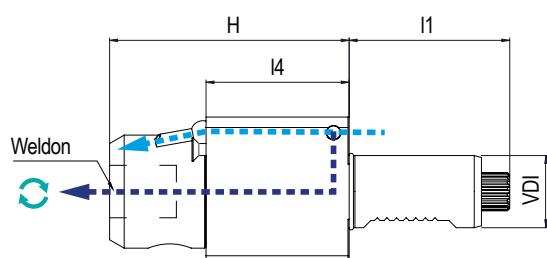
TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	VDI	Output	Int Cool.	l1	H	l4	b1	b2	h1	Nm	Rpm	kw	
99.ST.8023	25	Ø16	NO	48	110,5	89,5	54	27	56	20	6.000	6	
99.ST.8024	30	Ø22	NO	55	112	88	62	31	64	32	6.000	8	
99.ST.8025	40	Ø22	NO	63	102	77	73	35	70	63	6.000	10	
99.ST.8026	50	Ø22	NO	78	138	112	88	44	88	100	6.000	12	
99.ST.8027	50	Ø27	NO	78	138	112	88	44	88	100	4.000	12	

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50**


Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

**NEW**


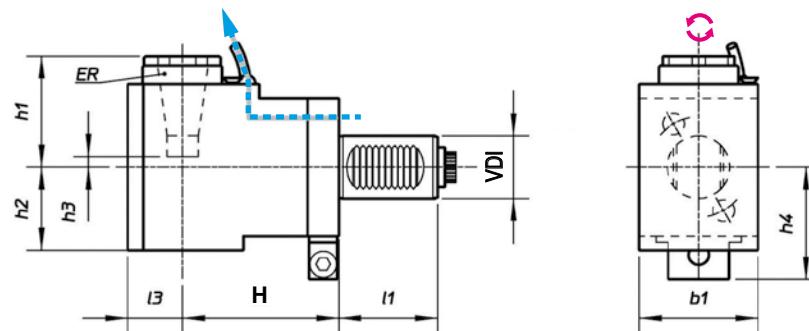
	TIPO - TYPE Assiale - Axial		USCITA - OUTPUT Weldon		REFRIGERANTE COOLANT <b>25BAR</b>		RATIO <b>1:1</b>		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	VDI	Output	Int Cool.	l1	H	l4	b1	h1	Nm	Rpm	kw	
99.ST.80103	30	Weldon Ø20	NO	66,7	<b>99,59</b>	59,5	64	62	32	5.000	8	
99.ST.80104	30	Weldon Ø20	✓	66,7	<b>99,59</b>	59,5	64	62	32	5.000	8	
99.ST.80105	30	Weldon Ø16	NO	66,7	<b>99,59</b>	59,5	64	62	32	5.000	8	
99.ST.80106	30	Weldon Ø16	✓	66,7	<b>99,59</b>	59,5	64	62	32	5.000	8	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**TIPO - TYPE**  
Radiale - Radial

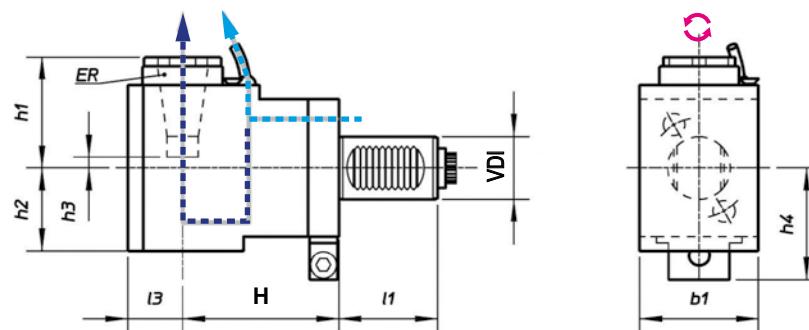
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.ST.8029	25	ER-25 - Ø1÷16	NO	48	75	28	54	50,5	42	4	48	20	6.000	6	
99.ST.8030	30	ER-25 - Ø1÷16	NO	55	55	31	64	56	48	3	54	32	6.000	8	
99.ST.8031	30	ER-25 - Ø1÷16	NO	55	85	31	64	56	48	3	54	32	6.000	8	
99.ST.8032	30	ER-25 - Ø1÷16	NO	55	100	31	64	56	48	3	54	32	6.000	8	
99.ST.8033	40	ER-32 - Ø2÷20	NO	63	100	35	76	71	55	11	71	63	6.000	10	
99.ST.8034	40	ER-32 - Ø2÷20	NO	63	120	35	76	71	55	11	71	63	6.000	10	
99.ST.8035	50	ER-40 - Ø3÷30	NO	78	110	44	88	92	73	16	79	100	4.000	12	

**4**

**TIPO - TYPE**  
Radiale - Radial

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**25BAR**

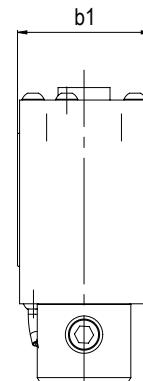
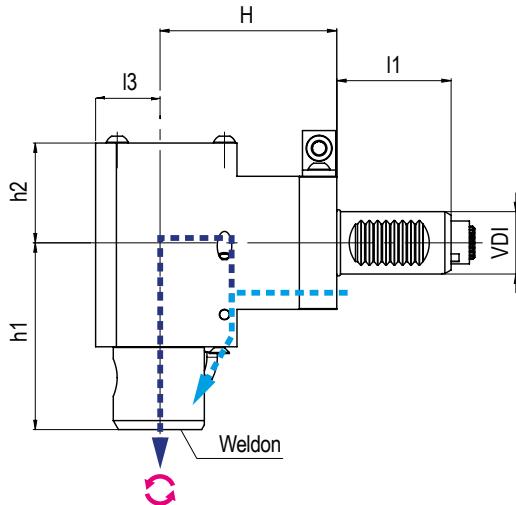
**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.ST.8037	25	ER-25 - Ø1÷16	✓	48	75	28	54	60	61	4	48	20	6.000	6	
99.ST.8038	30	ER-25 - Ø1÷16	✓	55	55	31	64	56	60	2	54	32	6.000	8	
99.ST.8039	30	ER-25 - Ø1÷16	✓	55	85	31	64	56	60	2	54	32	6.000	8	
99.ST.8040	30	ER-25 - Ø1÷16	✓	55	100	31	64	56	60	2	54	32	6.000	8	
99.ST.8041	40	ER-32 - Ø2÷20	✓	63	100	35	76	71	62	11	71	63	6.000	10	
99.ST.8042	40	ER-32 - Ø2÷20	✓	63	120	35	76	71	73	11	71	63	6.000	10	
99.ST.8043	50	ER-40 - Ø3÷30	✓	78	110	44	88	92	73	16	79	100	4.000	12	

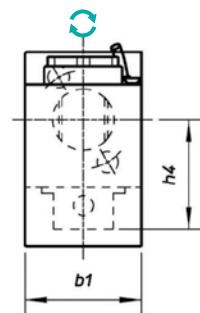
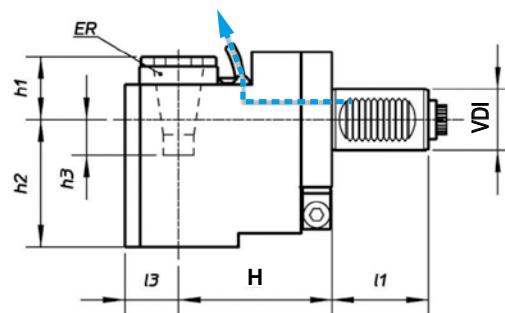
**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**VDI 20 / VDI 30 / VDI 40 / VDI 50**


Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

**NEW**


TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Weldon	REFRIGERANTE COOLANT 25BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	Nm	Rpm	kw
99.ST.80107	30	Weldon Ø20	NO	55	85	31	64	89,8	48	60	10.000	10
99.ST.80108	30	Weldon Ø20	✓	55	85	31	64	89,8	59,7	60	10.000	10
99.ST.80109	30	Weldon Ø16	NO	55	85	31	64	89,9	48	60	10.000	10
99.ST.80110	30	Weldon Ø16	✓	55	85	31	64	89,9	59,7	60	10.000	10



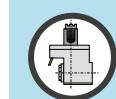
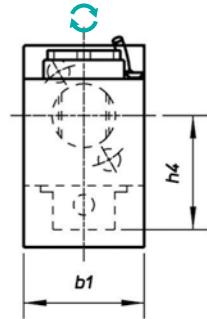
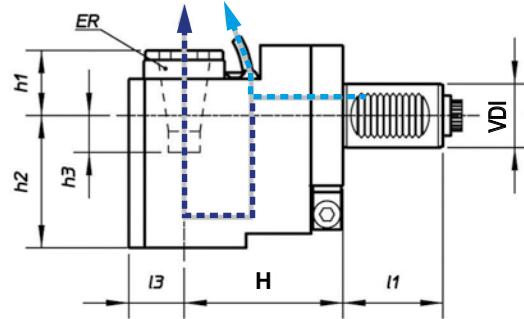
TIPO - TYPE Arretrato Rear Offset	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.ST.8045	25	ER-20 - Ø1÷13	NO	48	75	28	54	13,5	79	41	48	20	6.000	6
99.ST.8046	30	ER-25 - Ø1÷16	NO	55	85	31	64	21	90	45	56	32	5.000	8
99.ST.8047	30	ER-25 - Ø1÷16	NO	55	100	31	64	21	90	45	56	32	5.000	8
99.ST.8048	40	ER-32 - Ø2÷20	NO	63	100	35	76	20	106	40	65,5	63	6.000	10
99.ST.8049	50	ER-40 - Ø3÷30	NO	78	110	44	88	31	123	44	73,5	100	4.000	12

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**TIPO - TYPE**  
Arretrato  
Rear Offset

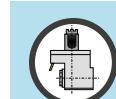
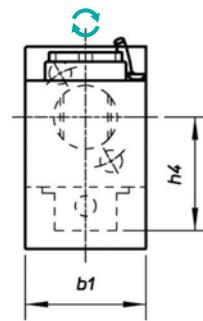
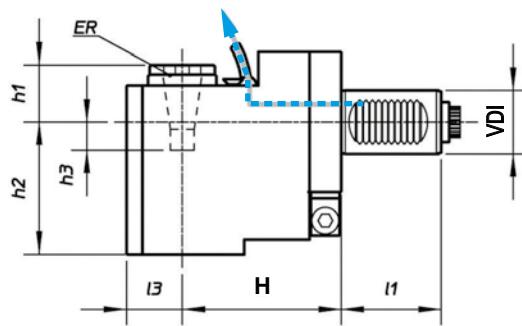
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
**25BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

<b>Code</b>	<b>VDI</b>	<b>Output</b>	<b>Int Cool.</b>	<b>I1</b>	<b>H</b>	<b>I3</b>	<b>b1</b>	<b>h1</b>	<b>h2</b>	<b>h3</b>	<b>h4</b>	<b>Nm</b>	<b>Rpm</b>	<b>kw</b>
99.ST.8051	25	ER-20 - Ø1÷13	✓	48	75	28	54	23	98	41	48	20	6.000	6
99.ST.8052	30	ER-25 - Ø1÷16	✓	55	85	31	64	24	105,5	45,5	56	32	5.000	8
99.ST.8053	30	ER-25 - Ø1÷16	✓	55	100	31	64	24	105,5	45,5	56	32	5.000	8
99.ST.8054	40	ER-32 - Ø2÷20	✓	63	100	35	76	30	124	40	65,5	63	6.000	10
99.ST.8055	50	ER-40 - Ø3÷30	✓	78	110	44	88	44	140,5	44	80,5	100	4.000	12


**TIPO - TYPE**  
Arretrato  
Rear Offset

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
ESTERNO  
External

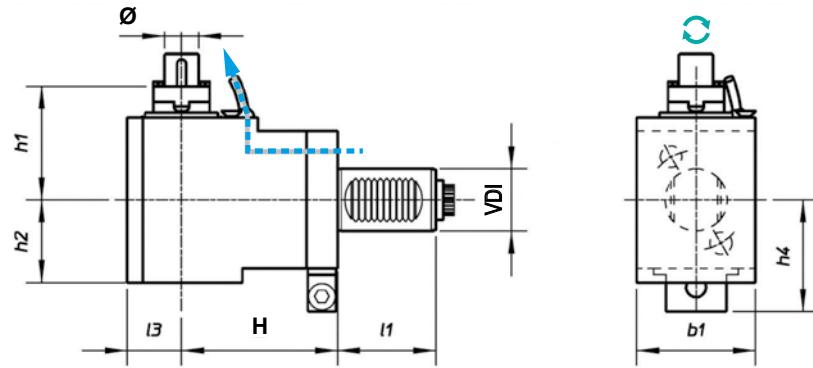
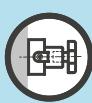
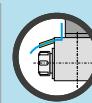
**RATIO**  
**1:4**
**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

<b>Code</b>	<b>VDI</b>	<b>Output</b>	<b>Int Cool.</b>	<b>I1</b>	<b>H</b>	<b>I3</b>	<b>b1</b>	<b>h1</b>	<b>h2</b>	<b>h3</b>	<b>h4</b>	<b>Nm</b>	<b>Rpm</b>	<b>kw</b>
99.ST.8057	25	ER-16 - Ø1÷10	NO	48	90	21	54	31	81	11	48	5	24.000	3
99.ST.8058	30	ER-16 - Ø1÷10	NO	55	95	21	64	33	84	15	56	8	21.000	4
99.ST.8059	40	ER-20 - Ø1÷13	NO	63	125	27	76	45	108	10	65,5	16	16.000	5
99.ST.8060	50	ER-20 - Ø1÷13	NO	78	135	27	86	45	113	10	73,5	25	16.000	6

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50**

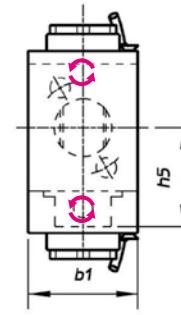
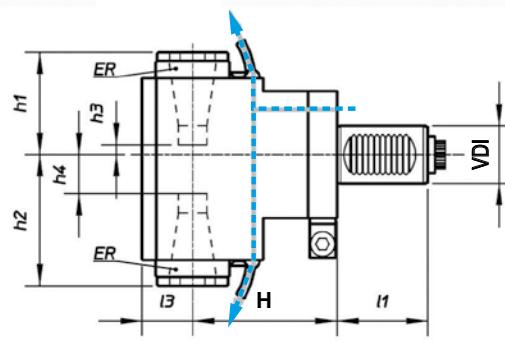
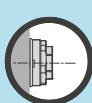
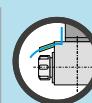

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**TIPO - TYPE**  
Radiale  
Radial

**USCITA - OUTPUT**  
Porta Fresa  
Shell End Milling Cutter

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
**2:1**

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h4	Nm	Rpm	kw	
99.ST.8070	25	Ø16	NO	48	75	28	54	66	48	48	40	3.000	6	
99.ST.8071	30	Ø22	NO	55	55	31	64	74	48	56	63	2.500	8	
99.ST.8072	30	Ø22	NO	55	85	31	64	74	48	56	63	2.500	8	
99.ST.8073	30	Ø22	NO	55	100	31	64	74	48	56	63	2.500	8	
99.ST.8074	40	Ø22	NO	63	100	35	76	78	55	65,5	63	3.000	8	
99.ST.8075	40	Ø22	NO	63	120	35	76	78	55	65,5	63	3.000	8	
99.ST.8076	50	Ø27	NO	78	110	44	88	110	62	73,5	100	2.000	12	

**4**

**TIPO - TYPE**  
Radiale Doppio  
Double Radial

**USCITA - OUTPUT**  
Porta Fresa  
Shell End Milling Cutter

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
**1:1**

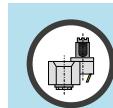
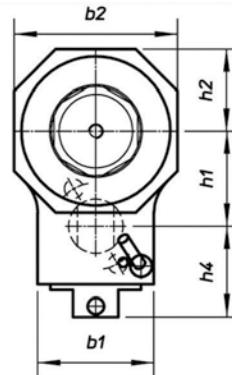
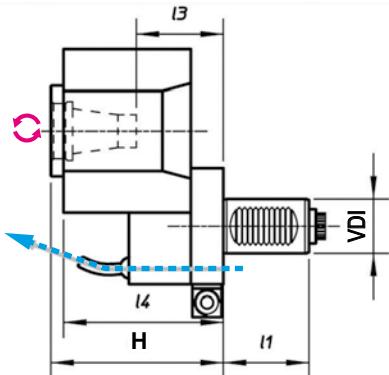
**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	h5	Nm	Rpm	kw	
99.ST.8078	25	ER-20 - Ø1÷13	NO	48	75	28	54	50,5	71,5	4	32	48	20	6.000	6	
99.ST.8079	30	ER-25 - Ø1÷16	NO	55	85	31	64	63	84	2,5	22,5	56	32	5.000	8	
99.ST.8080	30	ER-25 - Ø1÷16	NO	55	100	31	64	63	84	2,5	22,5	56	32	5.000	8	
99.ST.8081	40	ER-32 - Ø2÷20	NO	63	100	35	76	71	96	11	36,5	65,5	63	6.000	10	
99.ST.8082	40	ER-32 - Ø2÷20	NO	63	120	35	76	71	96	11	36,5	65,5	63	6.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**NEW**

**TIPO - TYPE**  
Disassato  
Offset Axis

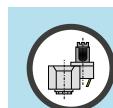
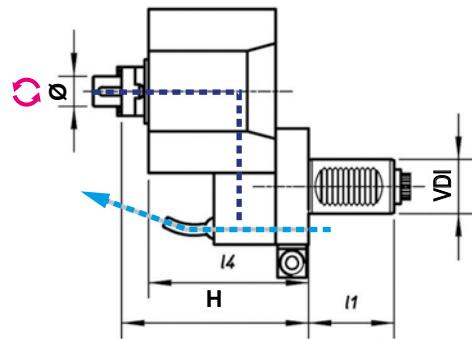
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE  
COOLANT**  
Esterno  
External

**RATIO**  
**2:1**

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I4	b1	b2	h1	h2	h4	Nm	Rpm	kw
99.ST.8083	30	ER-25 - Ø1÷16	NO	55	95	88	64	90	52,5	45	54	64	3.000	8
99.ST.80111	30	ER-32 - Ø2÷20	NO	55	100,25	88	-	90	-	-	-	63	2.500	8
99.ST.80112	40	ER-32 - Ø2÷20	NO	63	99	92	76	108	68,5	54	65,5	100	2.000	10

**4**
**NEW**

**TIPO - TYPE**  
Disassato  
Offset Axis

**USCITA - OUTPUT**  
Porta Fresa  
Shell End Milling Cutter

**REFRIGERANTE  
COOLANT**  
Esterno  
External

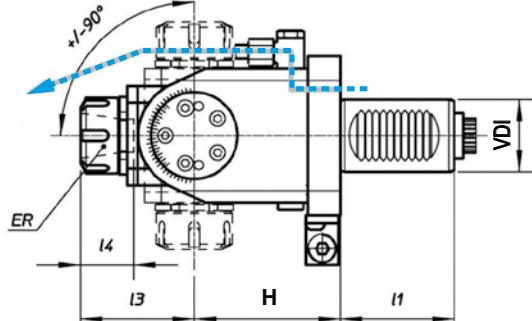
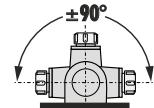
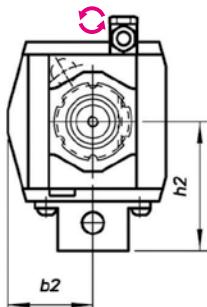
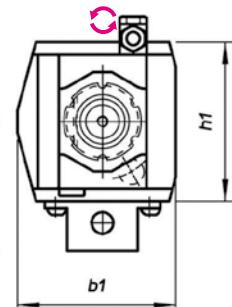
**RATIO**  
**2:1**

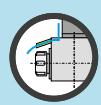
**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I4	b1	b2	h1	h2	h4	Nm	Rpm	kw
99.ST.8084	30	Ø22	NO	55	95	88	64	90	52,5	45	54	64	3.000	8
99.ST.80100	40	Ø22	NO	63	117	92	76	108	68,5	54	65,5	100	2.000	10

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**VDI 20 / VDI 25 / VDI 30 / VDI 50**


Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

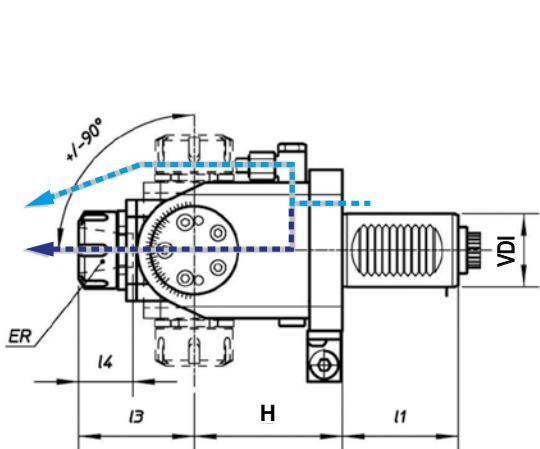
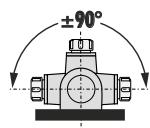
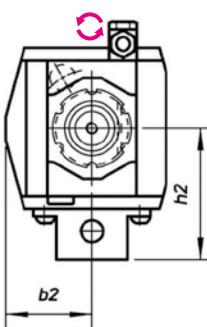
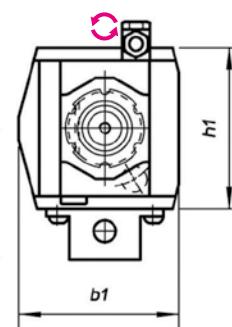
**NEW**

**SINISTRO - LEFT  
(Standard)**

**DESTRO - RIGHT  
(Specify)**

**TIPO - TYPE**  
**Orientabile  
Adjustable ±90°**

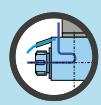
**USCITA - OUTPUT**  
**Porta Pinza  
Collet Chuck**

**REFRIGERANTE  
COOLANT**  
**Esterno  
External**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Opposto al mandrino  
Opposite to machine spindle**

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	h2	Nm	Rpm	kw	
99.ST.8086	25	ER-16 - Ø1÷10	NO	48	55	54	34,5	70,5	38	65	49,5	10	6.000	2	
99.ST.8097	25	ER-20 - Ø1÷13	NO	48	70	52	37	70	37	64	54	15	6.000	3	
99.ST.8087	30	ER-20 - Ø1÷13	NO	55	64	52	37	70	37	64	54	15	6.000	3	
99.ST.8088	30	ER-20 - Ø1÷13	NO	55	97	52	37	70	37	64	54	15	6.000	3	
99.ST.8089	40	ER-25 - Ø1÷16	NO	63	81	63	42	87	47	88	71	25	4.000	4	
99.ST.8098	40	ER-25 - Ø1÷16	NO	63	120	63	42	87	47	88	71	25	4.000	4	
99.ST.8096	50	ER-32 - Ø2÷20	NO	78	123	101	47	134	54	108	78	50	4.000	6	

**4**

**SINISTRO - LEFT  
(Standard)**

**DESTRO - RIGHT  
(Specify)**

**TIPO - TYPE**  
**Orientabile  
Adjustable ±90°**

**USCITA - OUTPUT**  
**Porta Pinza  
Collet Chuck**

**REFRIGERANTE  
COOLANT**  
**25BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Opposto al mandrino  
Opposite to machine spindle**

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	h2	h4	Nm	Rpm	kw	
99.ST.8091	30	ER-20 - Ø1÷13	✓	55	64	37	52	37	70	37	64	54	15	6.000	3	
99.ST.8092	30	ER-20 - Ø1÷13	✓	55	97	37	52	37	70	37	64	54	15	6.000	3	
99.ST.8093	40	ER-25 - Ø1÷16	✓	63	81	42	63	42	87	47	88	71	25	4.000	4	

## DIN 5482

### VDI DRIVEN TOOLS



**DIN 5482**



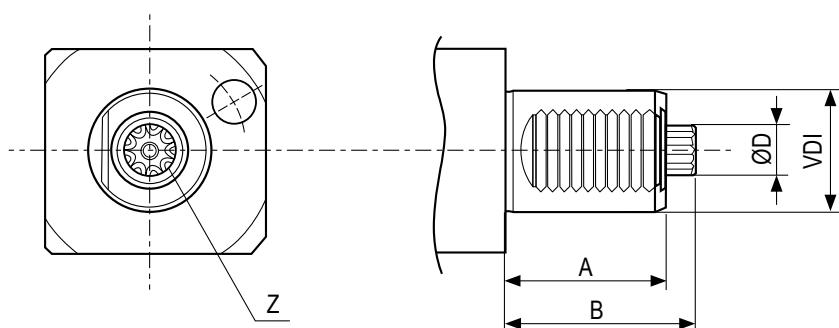
DIN 5480



BARUFFALDI



DIN 1809



VDI	A	B	ØD	E	Z (N° denti - Teeth)
30	45	55	14,5	B15X12	8
40	53	63	16,5	B17X14	9
50	78	93	19,5	B20X17	11
60	94	108	24,5	B25X22	14



#### DOTAZIONE STANDARD STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH /  
ugello refrigerazione Art.180 / vite bloccaggio motorizzato  
Art.179CH shaft lock wrench /  
cooling nozzle Art.180 / nozzle lock screws



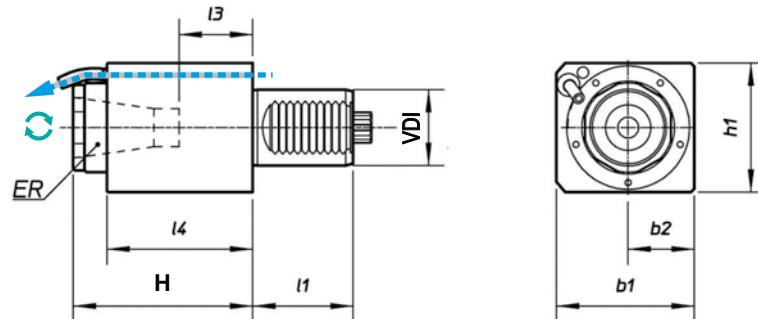
#### CAMBI RAPIDI MODULARI Vedi pag. 4.10 MODULAR QUICK CHANGE See page 4.10

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**TIPO - TYPE**  
Assiale - Axial

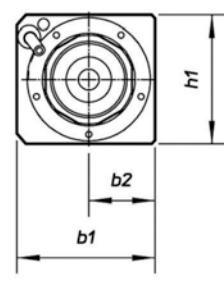
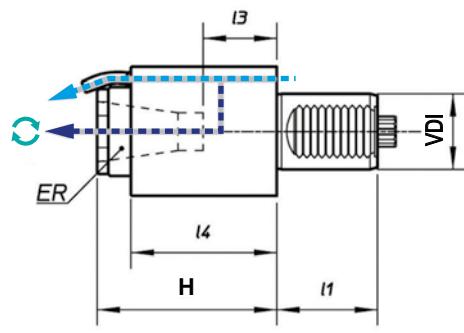
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.ST.8201	30	ER-25 - Ø1÷16	NO	45	94	39	88	62	31	64	32	6.000	8	
99.ST.8203	40	ER-32 - Ø2÷20	NO	53	115	54	97	73	35	70	63	5.000	10	
99.ST.8205	50	ER-40 - Ø3÷30	NO	78	150	75	142	88	44	88	100	4.000	12	
99.ST.8206	60	ER-50 - Ø7÷34	NO	94	220	110	168	110	55	110	160	3.200	15	

**4**

**TIPO - TYPE**  
Assiale - Axial

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
**25BAR**

**RATIO**  
1:1

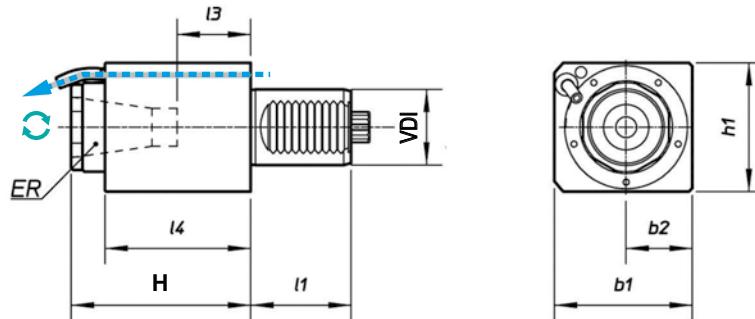
**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.ST.8207	30	ER-25 - Ø1÷16	✓	45	94	39	88	62	31	64	32	6.000	8	
99.ST.8208	40	ER-32 - Ø2÷20	✓	53	115	54	97	73	35	70	63	5.000	10	
99.ST.8210	50	ER-40 - Ø3÷30	✓	78	133	45	112	88	44	88	100	4.000	12	
99.ST.8211	60	ER-50 - Ø7÷34	✓	94	228	110	168	110	55	110	160	3.200	15	

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

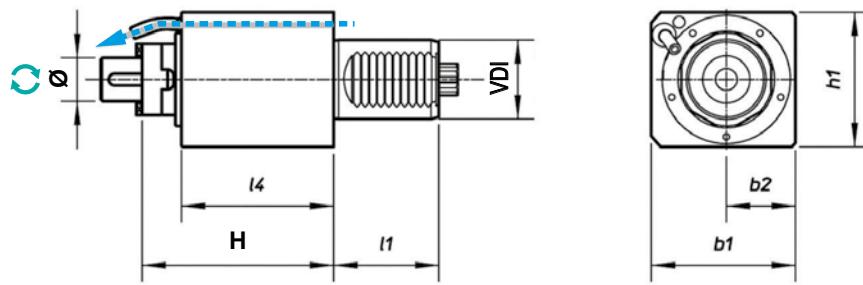
**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**


Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3



TIPO - TYPE	USCITA - OUTPUT	REFRIGERANTE COOLANT	RATIO	ROTAZIONE - ROTATION
Assiale - Axial	Porta Pinza Collet Chuck	Esterno External	1:4	Uguale al mandrino Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.ST.8212	30	ER-16 - Ø1÷10	NO	45	100	58	88	62	31	64	8	20.000	4	
99.ST.8213	40	ER-20 - Ø1÷13	NO	53	112,5	74,5	106	76	38	76	16	16.000	5	
99.ST.8214	50	ER-20 - Ø1÷13	NO	78	128,5	88,5	122	88	44	88	25	16.000	6	



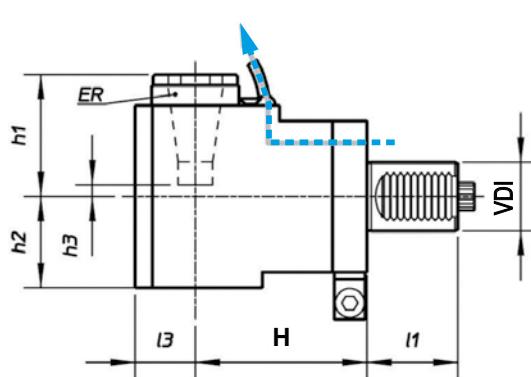
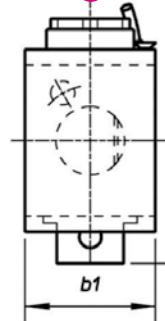
TIPO - TYPE	USCITA - OUTPUT	REFRIGERANTE COOLANT	RATIO	ROTAZIONE - ROTATION
Assiale - Axial	Porta Fresa Shell End Milling Cutter	Esterno External	1:1	Uguale al mandrino Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.ST.8215	30	Ø22	NO	45	112		88	62	31	64	32	6.000	8	
99.ST.8216	40	Ø22	NO	53	124		99	73	35	70	63	5.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**SINISTRO - LEFT  
(Standard)**

**DESTRO - RIGHT  
(Specify)**

**TIPO - TYPE**  
Radial - Radial

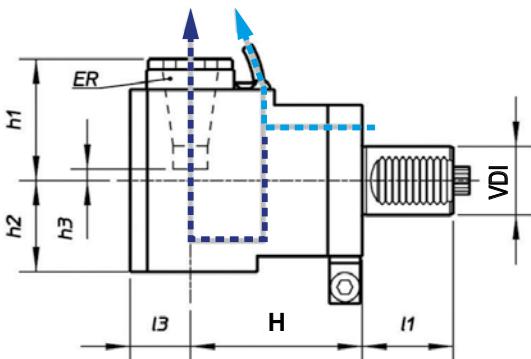
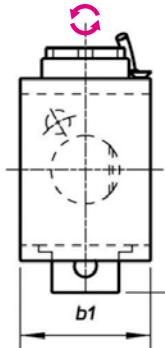
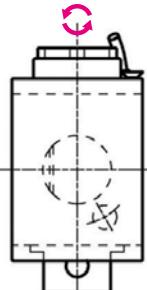
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE  
COOLANT**  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.ST.8217	30	ER-25 - Ø1÷16	NO	45	55	31	64	56	48	3	52	32	6.000	8
99.ST.8220	40	ER-32 - Ø2÷20	NO	53	100	35	76	71	55	11	71	63	5.000	10
99.ST.8221	50	ER-40 - Ø3÷30	NO	78	110	44	88	92	62	17	80,5	100	4.000	12
99.ST.8222	60	ER-50 - Ø7÷34	NO	94	130	55	110	149	102	39	103	160	3.200	15

**4**

**SINISTRO - LEFT  
(Standard)**

**DESTRO - RIGHT  
(Specify)**

**TIPO - TYPE**  
Radial - Radial

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE  
COOLANT**  
25BAR

**RATIO**  
1:1

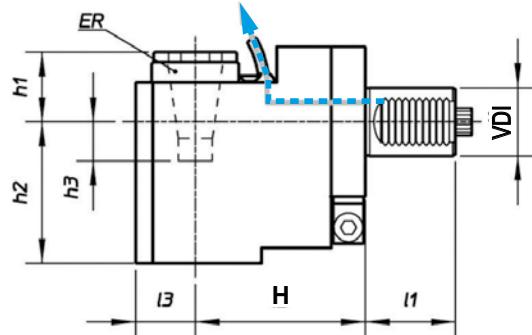
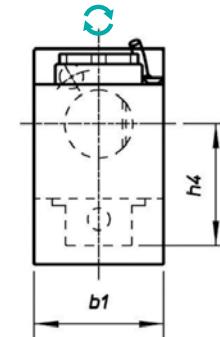
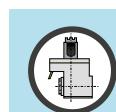
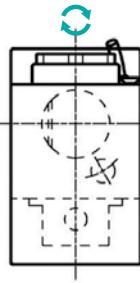
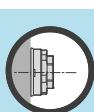
**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.ST.8223	30	ER-25 - Ø1÷16	✓	45	55	31	64	56	60	2	52	32	6.000	8
99.ST.8226	40	ER-32 - Ø2÷20	✓	53	100	35	76	71	62	11	71	63	5.000	10
99.ST.8227	50	ER-40 - Ø3÷30	✓	78	110	44	88	105	79,5	17	80,5	100	4.000	12
99.ST.8228	60	ER-50 - Ø7÷34	✓	94	130	55	110	157	102	39	103	160	3.200	15

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

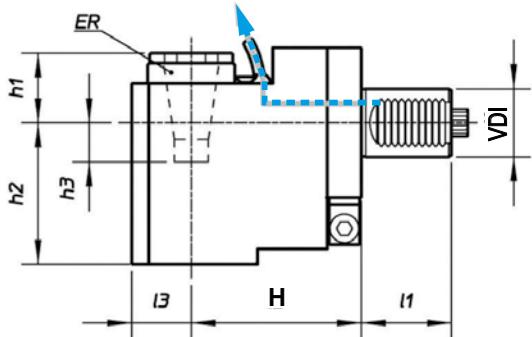
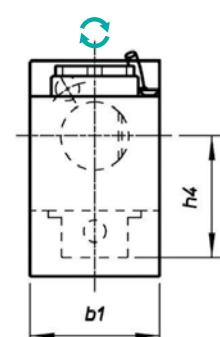
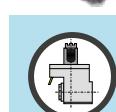
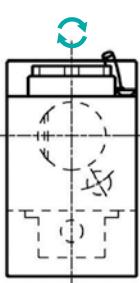
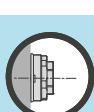

**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Arretrato  
Rear Offset

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.ST.8229	30	ER-25 - Ø1÷16	NO	45	85	31	64	14,5	90	45	52	32	6.000	8
99.ST.8230	40	ER-32 - Ø2÷20	NO	53	100	35	76	20	106	40	72,5	63	5.000	10
99.ST.8231	50	ER-40 - Ø3÷30	NO	78	110	44	88	31	123	44	80,5	100	4.000	12
99.ST.8232	60	ER-50 - Ø7÷34	NO	94	135	55	110	67	184	43	103	160	3.200	15

**4**

**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Arretrato  
Rear Offset

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
**25BAR**

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

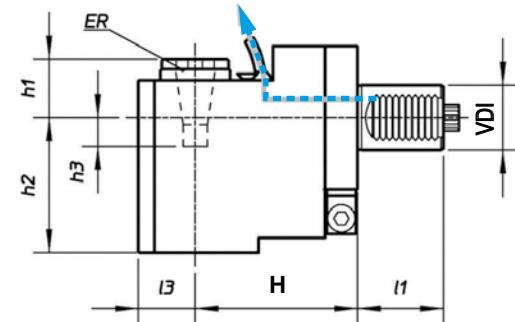
Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.ST.8233	30	ER-25 - Ø1÷16	✓	45	85	31	64	24	105,5	45,5	52	32	6.000	8
99.ST.8234	40	ER-32 - Ø2÷20	✓	53	100	35	76	30	124	40	72,5	63	5.000	10
99.ST.8235	50	ER-40 - Ø3÷30	✓	78	110	44	88	44	140,5	44	80,5	100	4.000	12

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

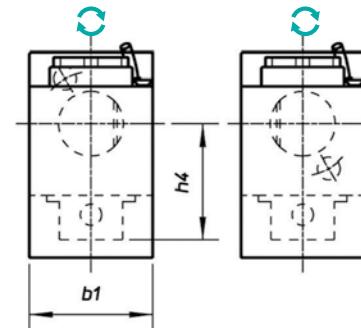
**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**



Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3



**SINISTRO - LEFT**  
(Standard)



**DESTRO - RIGHT**  
(Specify)



TIPO - TYPE  
Arretrato  
Rear Offset



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



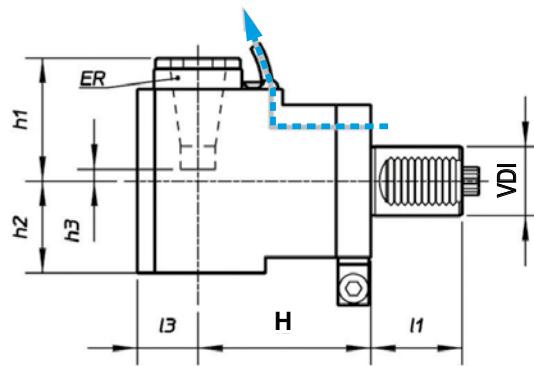
RATIO  
**1:4**



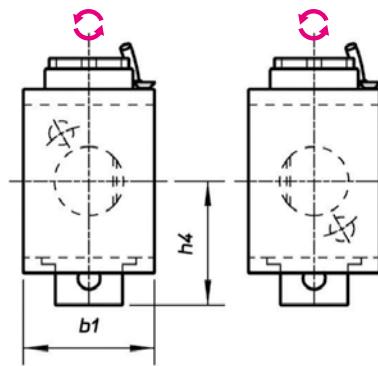
ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.ST.8237	30	ER-16 - Ø1÷10	NO	45	95	21	64	33	84	15	56	8	<b>20.000</b>	4	
99.ST.8238	40	ER-20 - Ø1÷13	NO	53	125	27	76	45	108	10	65,5	16	<b>16.000</b>	5	
99.ST.8239	50	ER-20 - Ø1÷13	NO	78	135	27	86	45	113	10	73,5	25	<b>16.000</b>	6	

4



**SINISTRO - LEFT**  
(Standard)



**DESTRO - RIGHT**  
(Specify)



TIPO - TYPE  
Radial - Radial



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



RATIO  
**2:1**



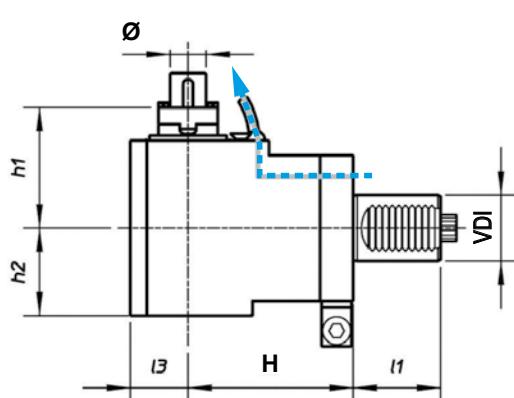
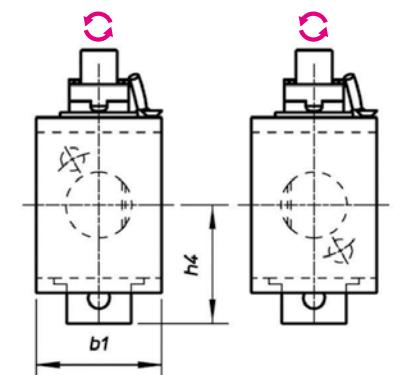
ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	km	h1	h2	h3	h4	Nm	Rpm	kw	
99.ST.8240	30	ER-25 - Ø1÷16	NO	45	55	31	64	56,5	48	3	52	63	<b>2.500</b>	8	
99.ST.8241	40	ER-32 - Ø2÷20	NO	53	100	35	76	71	55	-11	72,5	63	<b>2.000</b>	8	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

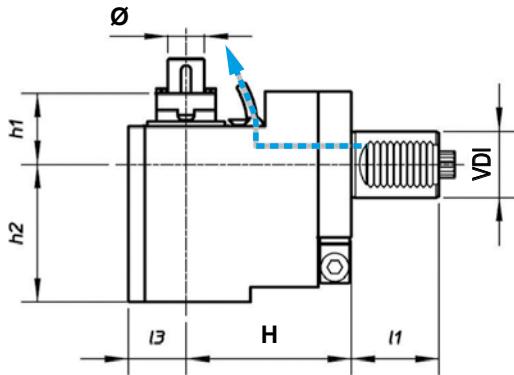
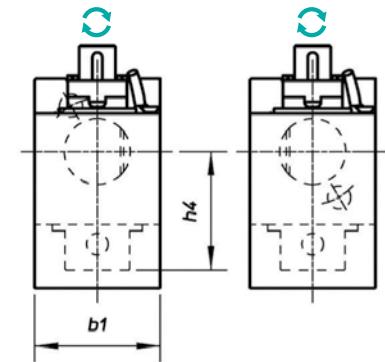
**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**


Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Radial - Radial      **USCITA - OUTPUT**  
Porta Fresa  
Shell End Milling Cutter      **REFRIGERANTE**  
COOLANT  
Esterno External      **RATIO**  
1:1      **ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h4	Nm	Rpm	kw
99.ST.8242	30	Ø22	NO	45	55	31	64	74	48	52	63	2.500	8
99.ST.8243	40	Ø22	NO	53	100	35	76	78	55	72,5	63	2.000	8

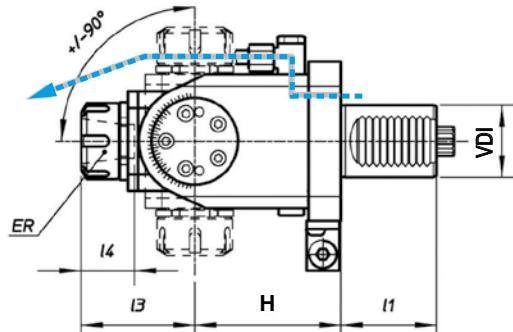
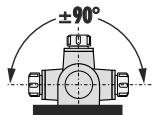
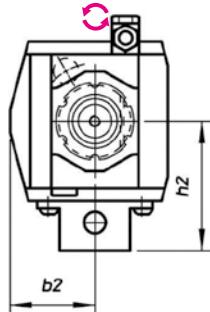
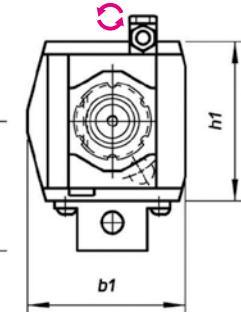

**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

TIPO - TYPE	USCITA - OUTPUT	REFRIGERANTE	RATIO	ROTAZIONE - ROTATION
Arretrato Rear Offset	Porta Fresa Shell End Milling Cutter	COOLANT External	1:1	Uguale al mandrino Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h4	Nm	Rpm	kw
99.ST.8244	30	Ø22	NO	45	85	31	64	32	90	52	32	2.500	8
99.ST.8245	40	Ø22	NO	53	100	35	76	27	106	72,5	63	4.000	10

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**


Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**SINISTRO - LEFT  
(Standard)**

**DESTRO - RIGHT  
(Specify)**

**TIPO - TYPE**  
**Orientabile**  
**Adjustable ±90°**

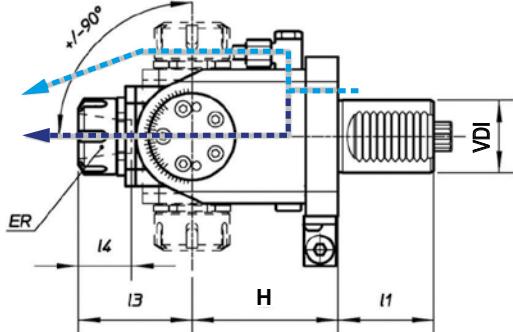
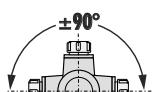
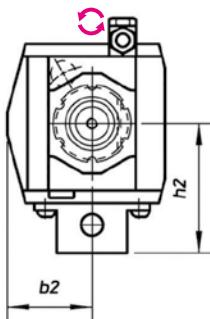
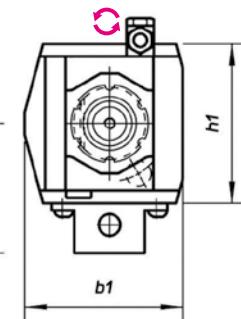
**USCITA - OUTPUT**  
**Porta Pinza**  
**Collet Chuck**

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
**External**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Opposto al mandrino**  
**Opposite to machine spindle**

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	h2	Nm	Rpm	kw
99.ST.8248	30	ER-20 - Ø1÷13	NO	45	64	52	37	70	37	64	54	15	6.000	3
99.ST.8249	30	ER-20 - Ø1÷13	NO	45	97	52	37	70	37	64	54	15	6.000	3
99.ST.8250	40	ER-25 - Ø1÷16	NO	53	81	63	42	87	47	88	71	25	5.000	4
99.ST.8251	50	ER-25 - Ø1÷16	NO	78	100	67	47	91	54	88	72	25	4.000	6

**4**

**SINISTRO - LEFT  
(Standard)**

**DESTRO - RIGHT  
(Specify)**

**TIPO - TYPE**  
**Orientabile**  
**Adjustable ±90°**

**USCITA - OUTPUT**  
**Porta Pinza**  
**Collet Chuck**

**REFRIGERANTE**  
**COOLANT**  
**25BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Opposto al mandrino**  
**Opposite to machine spindle**

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	h2	Nm	Rpm	kw
99.ST.8254	30	ER-20 - Ø1÷13	✓	45	97	52	37	70	37	64	54	15	6000	3
99.ST.8255	40	ER-25 - Ø1÷16	✓	53	81	63	42	87	47	88	71	25	5000	4

# **BARUFFALDI**

## VDI DRIVEN TOOLS



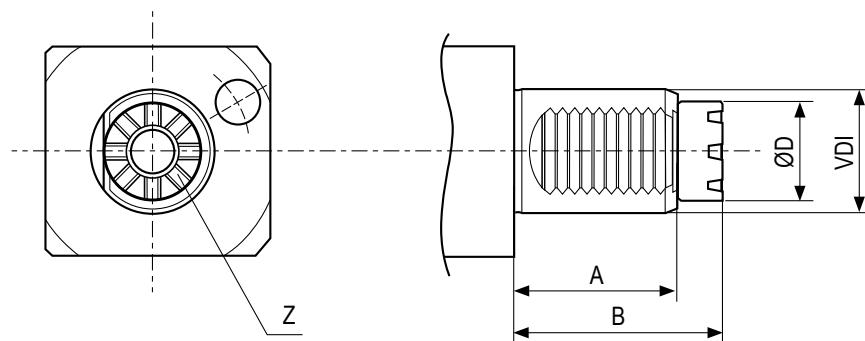
**BARUFFALDI**



DIN 5480

DIN 5482

DIN 1809



<b>VDI</b>	<b>A</b>	<b>B</b>	<b>ØD</b>	<b>Z (N° denti - Teeth)</b>
20	35	44	19	6
30	45/53	59	24	6
40	53	68	32	8
50	70	84	40	8
60	83	100	43	8



### **DOTAZIONE STANDARD** STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH /  
ugello refrigerazione Art.180 / vite bloccaggio motorizzato  
Art.179CH shaft lock wrench /  
cooling nozzle Art.180 / nozzle lock screws



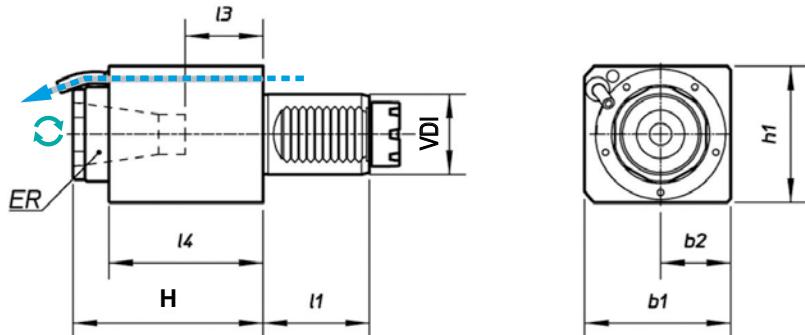
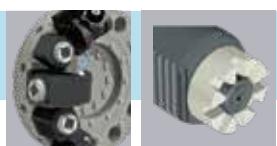
### **CAMBI RAPIDI MODULARI** *Vedi pag. 4.10* MODULAR QUICK CHANGE *See page 4.10*

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi assiali - For axial tool discs


**TIPO - TYPE**  
**Assiale - Axial**

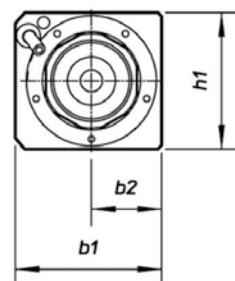
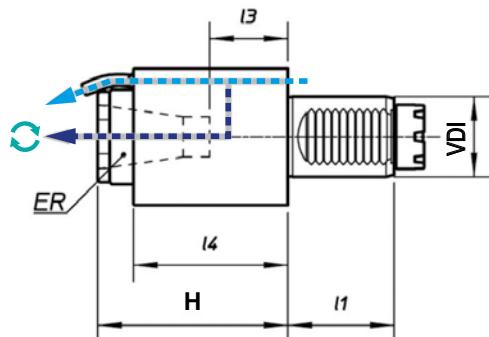
**USCITA - OUTPUT**  
**Porta Pinza  
Collet Chuck**

**REFRIGERANTE  
COOLANT**  
**Esterno  
External**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Uguale al mandrino  
Same as machine spindle**

Code	VDI	Output	Int Cool.	l1	H	l3	l4	b1	b2	h1	Nm	Rpm	kw	
99.BF.0001	20	ER-20 - Ø1÷13	NO	35	90	49	61	50	25	56	13	6.000	5	
99.BF.0002	20	ER-20 - Ø1÷13	NO	35	65	25	37	50	25	56	13	6.000	5	
99.BF.0003	30	ER-25 - Ø1÷16	NO	45	94	39	88	62	31	64	32	6.000	8	
99.BF.0005	40	ER-32 - Ø2÷20	NO	53	117	57	99	73	35	70	63	5.000	10	
99.BF.0007	50	ER-40 - Ø3÷30	NO	70	120	45	102	88	44	88	100	4.000	12	
99.BF.0009	60	ER-50 - Ø7÷34	NO	83	170	69	109	110	55	110	160	3.200	15	

**4**

**TIPO - TYPE**  
**Assiale - Axial**

**USCITA - OUTPUT**  
**Porta Pinza  
Collet Chuck**

**REFRIGERANTE  
COOLANT**  
**25BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Uguale al mandrino  
Same as machine spindle**

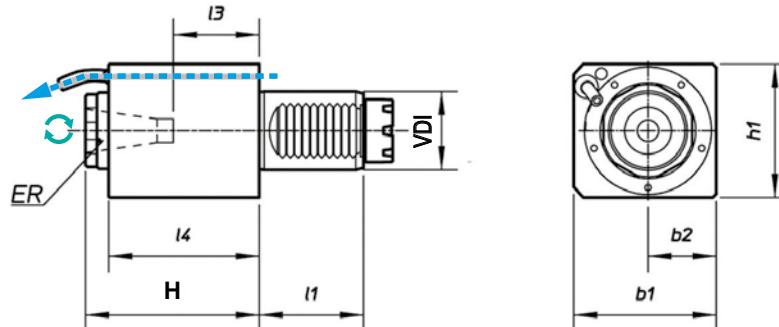
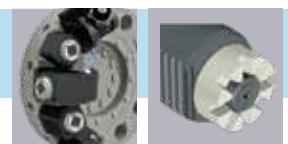
Code	VDI	Output	Int Cool.	l1	H	l3	l4	b1	b2	h1	Nm	Rpm	kw	
99.BF.0010	30	ER-25 - Ø1÷16	✓	45	94	39	88	62	31	64	32	6.000	8	
99.BF.0011	40	ER-32 - Ø2÷20	✓	53	115	54	97	73	35	70	63	5.000	10	
99.BF.0013	50	ER-40 - Ø3÷30	✓	70	120	45	102	88	44	88	100	4.000	12	
99.BF.0014	60	ER-50 - Ø7÷34	✓	83	170	69	109	110	55	110	160	3.200	15	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

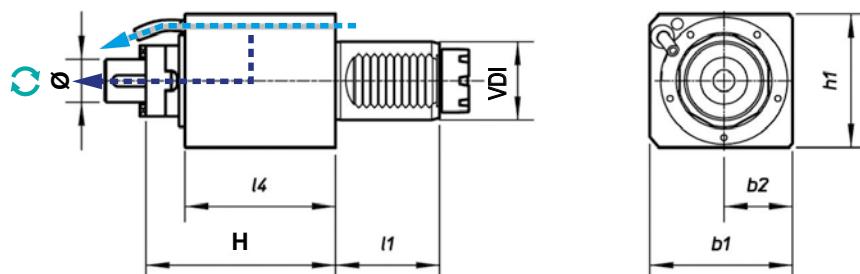
Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi assiali - For axial tool discs



TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:4	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.BF.0015	20	ER-16 - Ø1÷10	NO	35	100	68	85	50	25	56	3	24.000	3	
99.BF.0016	30	ER-16 - Ø1÷10	NO	45	100	58	88	62	31	64	8	20.000	4	
99.BF.0017	40	ER-20 - Ø1÷13	NO	53	112,5	74,5	106	76	38	76	16	16.000	5	



TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT 25BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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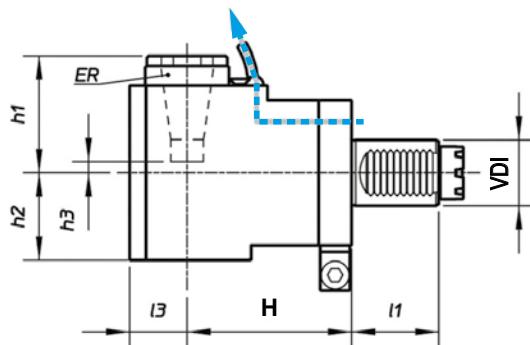
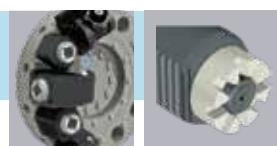
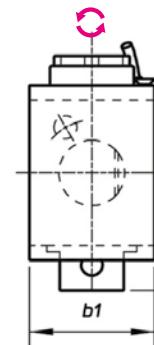
Code	VDI	Output	Int Cool.	I1	H	I4	b1	b2	h1	Nm	Rpm	kw	
99.BF.0018	30	Ø22	✓	45	112	88	62	31	64	32	5.000	8	
99.BF.0019	40	Ø22	✓	53	124	99	73	35	70	63	4.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi assiali - For axial tool discs


**SINISTRO - LEFT  
(Standard)**

**DESTRO - RIGHT  
(Specify)**

**TIPO - TYPE**  
Radiale - Radial

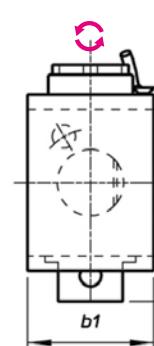
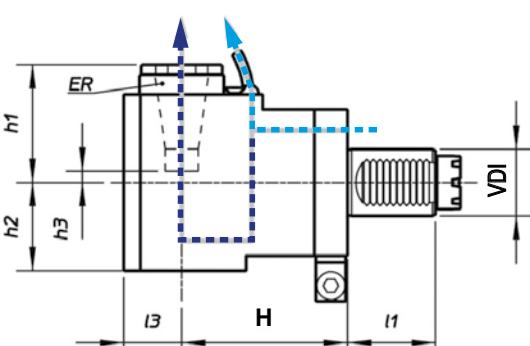
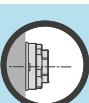
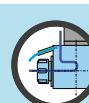
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE COOLANT**  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.BF.0020	20	ER-20 - Ø1÷13	NO	35	60	25	50	60	38	19	57	13	6.000	5
99.BF.0021	30	ER-25 - Ø1÷16	NO	45	55	31	64	56	48	3	52	32	6.000	8
99.BF.0022	30	ER-25 - Ø1÷16	NO	45	85	31	64	56	48	3	52	32	6.000	8
99.BF.0023	30	ER-25 - Ø1÷16	NO	45	100	31	64	56	48	3	52	32	6.000	8
99.BF.0024	40	ER-32 - Ø2÷20	NO	53	100	35	76	71	55	11	71	63	5.000	10
99.BF.0025	50	ER-40 - Ø3÷30	NO	70	110	44	88	92	73	16	79	100	4.000	12
99.BF.0026	60	ER-50 - Ø7÷34	NO	83	130	52	110	149	83	46	100	160	3.200	15

**SINISTRO - LEFT  
(Standard)**

**DESTRO - RIGHT  
(Specify)**

**TIPO - TYPE**  
Radiale - Radial

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE COOLANT**  
25BAR

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

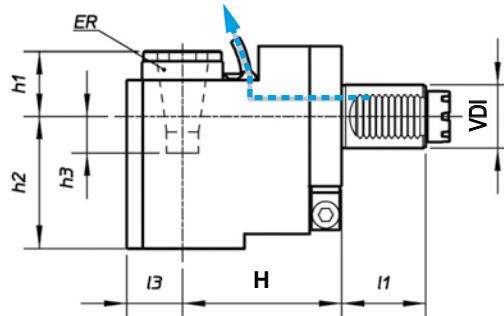
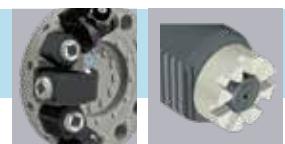
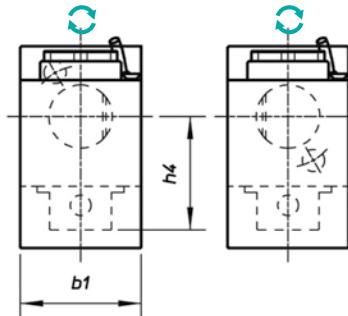
Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.BF.0027	30	ER-25 - Ø1÷16	✓	45	55	31	64	56	60	3	52	32	6.000	8
99.BF.0028	30	ER-25 - Ø1÷16	✓	45	85	31	64	56	60	3	52	32	6.000	8
99.BF.0029	30	ER-25 - Ø1÷16	✓	45	100	31	64	56	60	3	52	32	6.000	8
99.BF.0030	40	ER-32 - Ø2÷20	✓	53	100	35	76	71	62	11	71	63	5.000	10
99.BF.0031	50	ER-40 - Ø3÷30	✓	70	110	44	88	92	73	16	79	100	4.000	12
99.BF.0032	60	ER-50 - Ø7÷34	✓	83	130	52	110	149	83	46	100	160	3.200	15

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi assiali - For axial tool discs


**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

TIPO - TYPE  
Arretrato  
Rear Offset

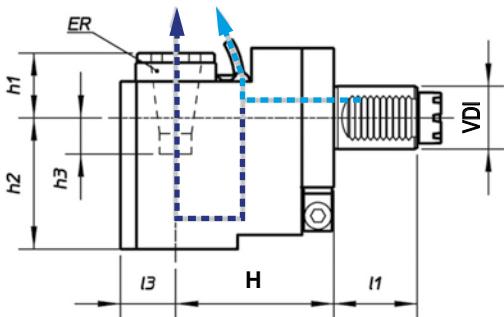
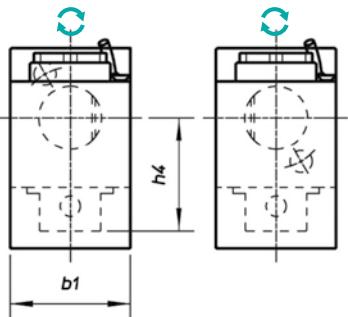
USCITA - OUTPUT  
Porta Pinza  
Collet Chuck

REFRIGERANTE  
COOLANT  
Esterno  
External

RATIO  
1:1

ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.BF.0033	20	ER-16 - Ø1÷10	NO	35	75	26	50	28	48	4	56	13	6.000	5
99.BF.0034	30	ER-25 - Ø1÷16	NO	45	85	31	64	14,5	90	45	52	32	5.000	8
99.BF.0035	40	ER-32 - Ø2÷20	NO	53	100	35	76	20	106	40	72,5	63	4.000	10
99.BF.0036	50	ER-40 - Ø3÷30	NO	70	110	44	88	31	136	46	79	100	4.000	12

**4**

**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

TIPO - TYPE  
Arretrato  
Rear Offset

USCITA - OUTPUT  
Porta Pinza  
Collet Chuck

REFRIGERANTE  
COOLANT  
25BAR

RATIO  
1:1

ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

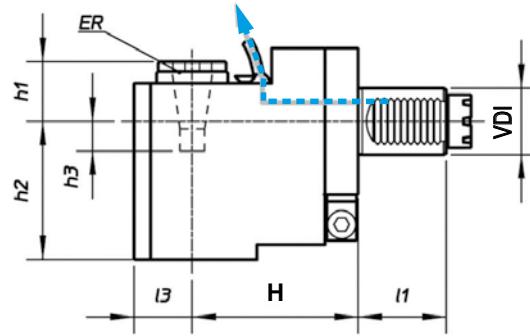
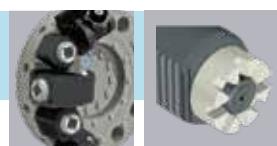
Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.BF.0037	30	ER-25 - Ø1÷16	✓	45	85	31	64	24	105,5	45,5	52	32	5.000	8
99.BF.0038	40	ER-32 - Ø2÷20	✓	53	100	35	76	30	124	40	72,5	63	4.000	10
99.BF.0039	50	ER-40 - Ø3÷30	✓	70	110	44	88	44	136	46	79	100	4.000	12

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

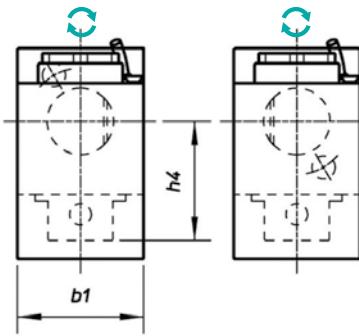
**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi assiali - For axial tool discs



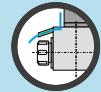
**SINISTRO - LEFT**  
**(Standard)**



**DESTRO - RIGHT**  
**(Specify)**

 TIPO - TYPE  
Arretrato  
Rear Offset

 USCITA - OUTPUT  
Porta Pinza  
Collet Chuck

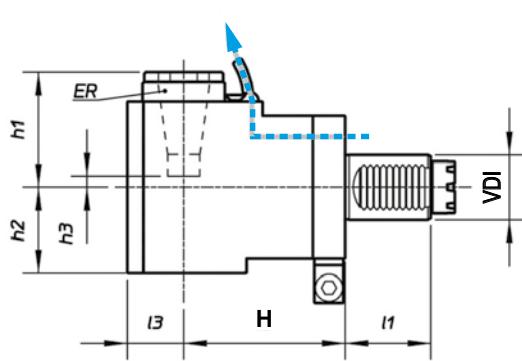
 REFRIGERANTE  
COOLANT  
Esterno  
External

 RATIO  
**1:4**

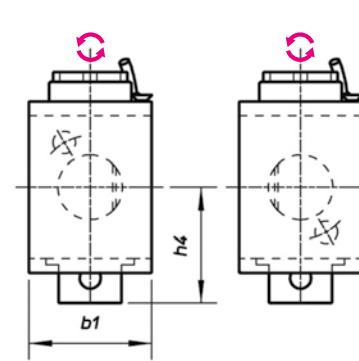
 ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.BF.0040	20	ER-25 - Ø1÷16	NO	35	75	26	50	28	48	4	56	3	<b>24.000</b>	3	
99.BF.0041	30	ER-25 - Ø1÷16	NO	45	95	21	64	33	84	15	56	8	<b>20.000</b>	4	
99.BF.0042	40	ER-20 - Ø1÷13	NO	53	125	27	76	45	108	10	65,5	16	<b>16.000</b>	5	

4



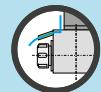
**SINISTRO - LEFT**  
**(Standard)**



**DESTRO - RIGHT**  
**(Specify)**

 TIPO - TYPE  
Radiale - Radial

 USCITA - OUTPUT  
Porta Pinza  
Collet Chuck

 REFRIGERANTE  
COOLANT  
Esterno  
External

 RATIO  
**2:1**

 ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

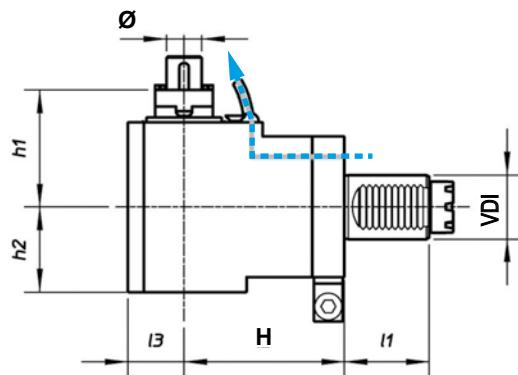
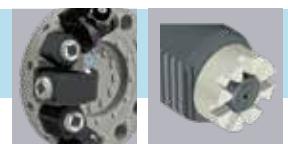
Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.BF.0043	30	ER-25 - Ø1÷16	NO	45	55	31	64	56,5	48	3	52	63	<b>2.500</b>	8	
99.BF.0044	40	ER-32 - Ø2÷20	NO	53	100	35	76	71	55	-11	72,5	63	<b>2.000</b>	8	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

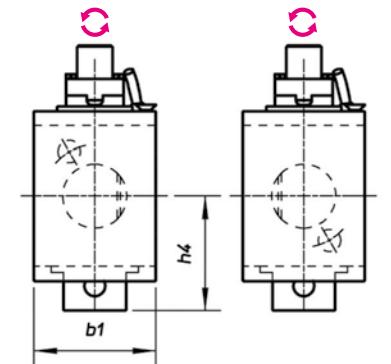
**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi assiali - For axial tool discs



**SINISTRO - LEFT**  
(Standard)



**DESTRO - RIGHT**  
(Specify)

TIPO - TYPE  
Radiale - Radial

USCITA - OUTPUT  
Porta Fresa  
Shell End Milling Cutter

REFRIGERANTE  
COOLANT  
Esterno  
External

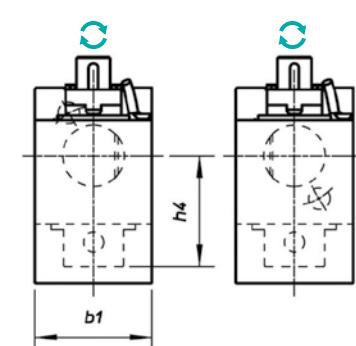
RATIO  
2:1

ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

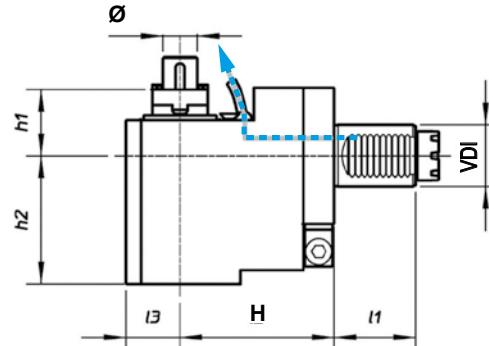
Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h4	Nm	Rpm	kw	
99.BF.0045	30	Ø22	NO	45	55	31	64	74	48	52	63	2.500	8	
99.BF.0046	40	Ø22	NO	53	100	35	76	78	55	72,5	63	2.000	8	

4

**SINISTRO - LEFT**  
(Standard)



**DESTRO - RIGHT**  
(Specify)



TIPO - TYPE  
Arretrato  
Rear Offset

USCITA - OUTPUT  
Porta Fresa  
Shell End Milling Cutter

REFRIGERANTE  
COOLANT  
Esterno  
External

RATIO  
1:1

ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

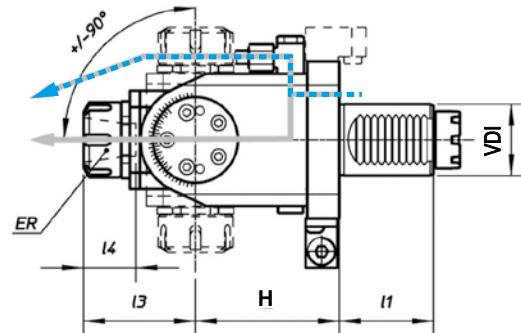
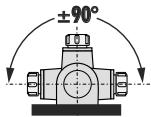
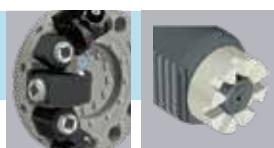
Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h4	Nm	Rpm	kw	
99.BF.0047	30	Ø22	NO	45	85	31	64	32	90	52	32	2500	8	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

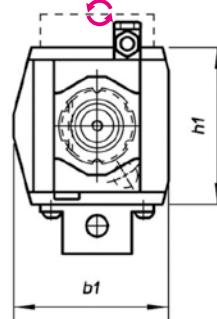
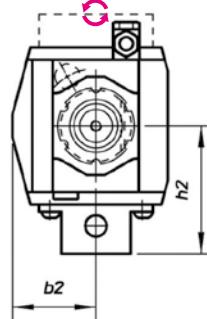
Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi assiali - For axial tool discs



**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)



TIPO - TYPE  
Orientabile  
Adjustable ±90°



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



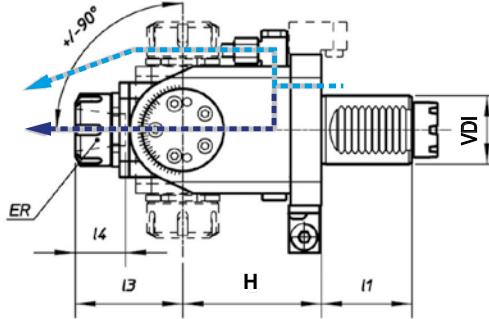
RATIO  
1:1



ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

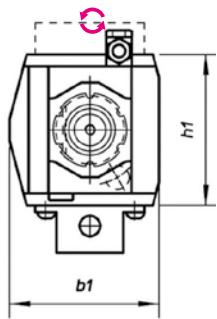
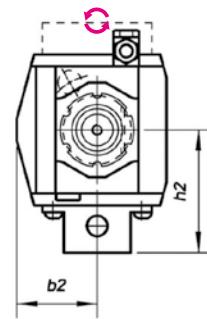
Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	h2	Nm	Rpm	kw
99.BF.0051	30	ER-20 - Ø1+13	NO	45	64	52	37	70	37	64	54	15	6000	3
99.BF.0052	30	ER-20 - Ø1+13	NO	45	97	52	37	70	37	64	54	15	6000	3
99.BF.0053	40	ER-25 - Ø1+16	NO	53	81	63	42	87	47	88	71	25	5000	4

4



**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)



TIPO - TYPE  
Orientabile  
Adjustable ±90°



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**25BAR**



RATIO  
1:1



ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

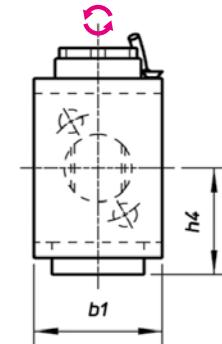
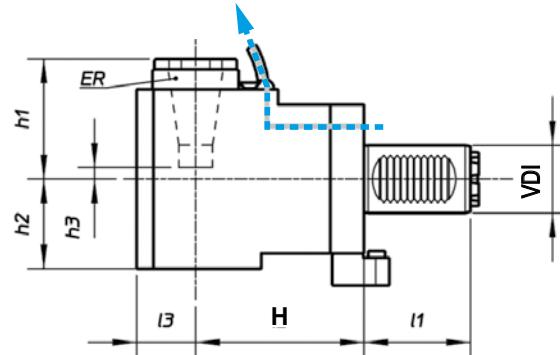
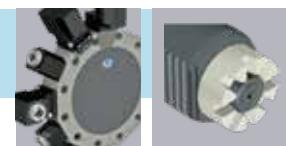
Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	h2	Nm	Rpm	kw
99.BF.0054	30	ER-20 - Ø1+13	✓	45	64	52	37	70	37	64	54	15	6000	3
99.BF.0055	30	ER-20 - Ø1+13	✓	45	97	52	37	70	37	64	54	15	6000	3
99.BF.0056	40	ER-25 - Ø1+16	✓	53	81	63	42	87	47	88	71	25	5000	4

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi radiali - For radial tool discs


**TIPO - TYPE**  
Radiale - Radial

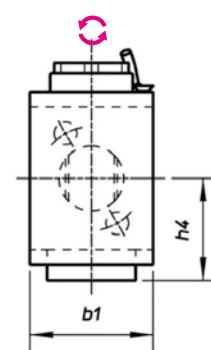
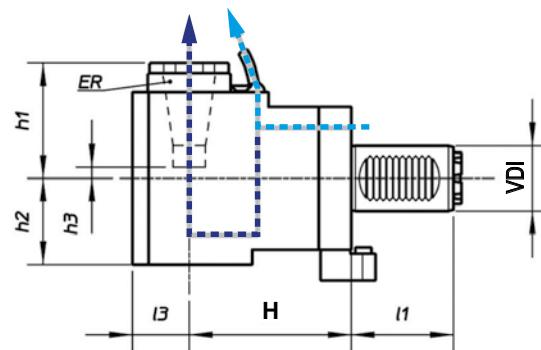
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.BF.0057	30	ER-25 - Ø1÷16	NO	53	55	31	64	56	48	3	53	32	6000	8	
99.BF.0058	30	ER-25 - Ø1÷16	NO	53	85	31	64	56	48	3	53	32	6000	8	
99.BF.0059	30	ER-25 - Ø1÷16	NO	53	100	31	64	56	48	3	53	32	6000	8	
99.BF.0060	50	ER-40 - Ø3÷30	NO	70	110	44	88	92	73	16	68	100	4000	12	

**4**

**TIPO - TYPE**  
Radiale - Radial

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
**25BAR**

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

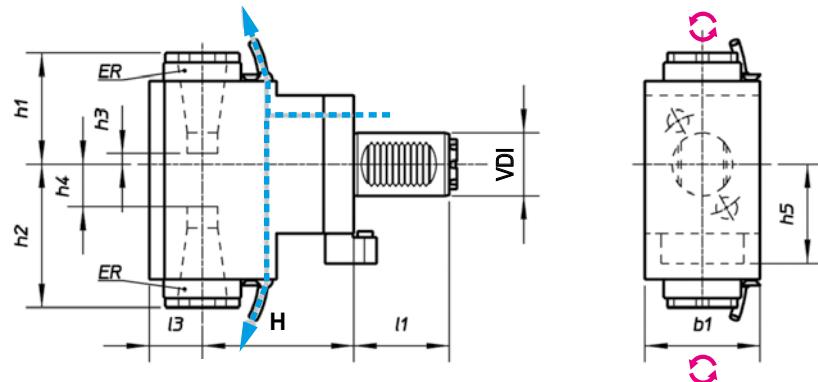
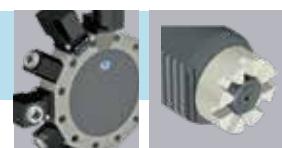
Code	VDI	Output	Int Cool.	l1	H	l3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.BF.0061	30	ER-25 - Ø1÷16	✓	53	55	31	64	56	60	3	53	32	6000	8	
99.BF.0062	30	ER-25 - Ø1÷16	✓	53	85	31	64	56	60	3	53	32	6000	8	
99.BF.0063	30	ER-25 - Ø1÷16	✓	53	100	31	64	56	60	3	53	32	6000	8	
99.BF.0064	50	ER-40 - Ø3÷30	✓	70	110	44	88	92	62	16	68	100	4000	12	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 30 / VDI 40 / VDI 50 / VDI 60**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3

Per dischi radiali - For radial tool discs



**TIPO - TYPE**  
Radiale Doppio  
Double Radical



**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck



**REFRIGERANTE  
COOLANT**  
Esterno  
External



**RATIO**  
**1:1**



**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

<b>Code</b>	<b>VDI</b>	<b>Output</b>	<b>Int Cool.</b>	<b>I1</b>	<b>H</b>	<b>I3</b>	<b>b1</b>	<b>h1</b>	<b>h2</b>	<b>h3</b>	<b>h4</b>	<b>h5</b>	<b>Nm</b>	<b>Rpm</b>	<b>kw</b>	
99.BF.0067	30	ER-25 - Ø1÷16	NO	53	110	31	64	56	68	7	23	53	32	6000	8	
99.BF.0068	50	ER-40 - Ø3÷30	NO	70	140	44	88	93	106	39	52	68	100	4000	12	

# DIN 1809

## VDI DRIVEN TOOLS



**DIN 1809**



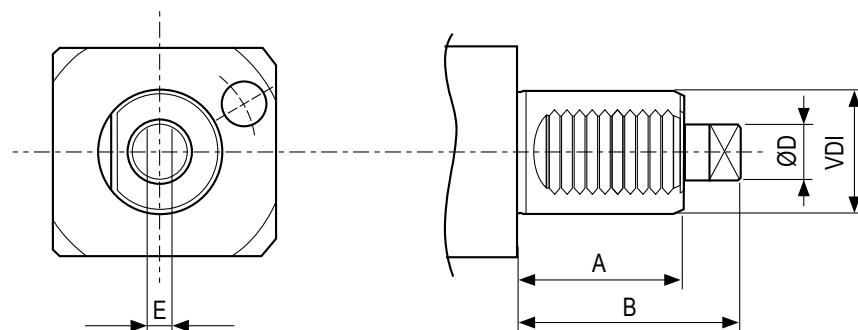
DIN 5480



DIN 5482



BARUFFALDI



VDI	A	B	ØD	E
20	35	48	10	5
30	45	62	12	6
40	53	72	18	8
50	78	92	24	13
60	83	110	29	14



### DOTAZIONE STANDARD STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH /  
ugello refrigerazione Art.180 / vite bloccaggio motorizzato  
Art.179CH shaft lock wrench /  
cooling nozzle Art.180 / nozzle lock screws



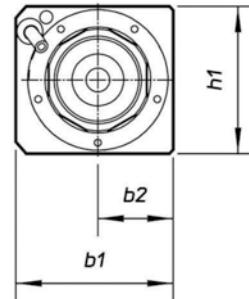
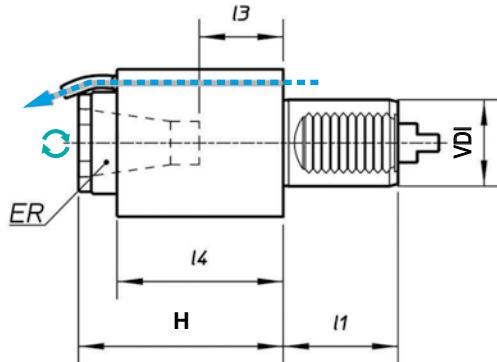
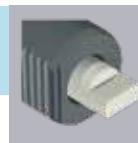
### CAMBI RAPIDI MODULARI MODULAR QUICK CHANGE

Vedi pag. 4.10  
See page 4.10  
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 25 / VDI 30 / VDI 50**

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**TIPO - TYPE**  
Assiale - Axial

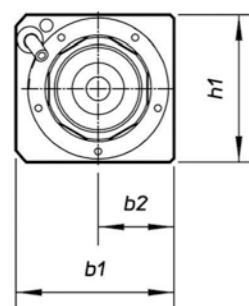
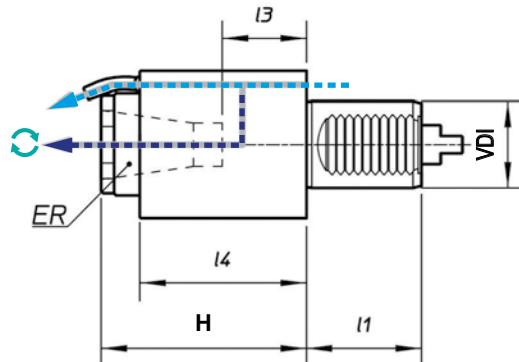
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE  
COOLANT**  
Esterno  
External

**RATIO**  
1:1  
1:4

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.DP.0901	20	ER-20 - Ø1+13	NO	35	65	25	37	50	25	56	13	6000	5	
99.DP.0902	20	ER-20 - Ø1+13	NO	35	90	49	61	50	25	56	13	6000	5	
99.DP.0903	30	ER-25 - Ø1+16	NO	45	94	39	88	62	31	64	32	6000	8	
99.DP.0904	30	ER-25 - Ø1+16	NO	45	66	21	59	62	31	64	32	6000	8	
99.DP.0905	40	ER-32 - Ø2+20	NO	53	115	54	97	73	35	70	63	5000	10	
99.DP.0907	50	ER-40 - Ø3+30	NO	70	120	45	102	88	44	88	100	4000	12	
99.DP.0908	50	ER-40 - Ø3+30	NO	70	88	69	25	88	44	88	100	4000	12	
99.DP.0909	60	ER-50 - Ø7+34	NO	83	170	69	109	110	55	110	160	3200	15	
99.DP.0915	20	ER-16 - Ø1+10	NO	35	100	68	85	50	25	56	3	24000	3	
99.DP.0916	30	ER-16 - Ø1+10	NO	45	100	58	88	62	31	64	8	20000	4	


**TIPO - TYPE**  
Assiale - Axial

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE  
COOLANT**  
25BAR

**RATIO**  
1:1

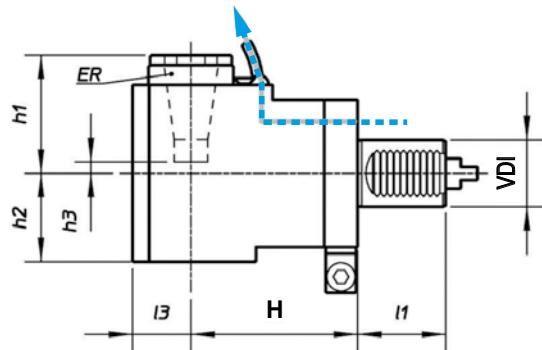
**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

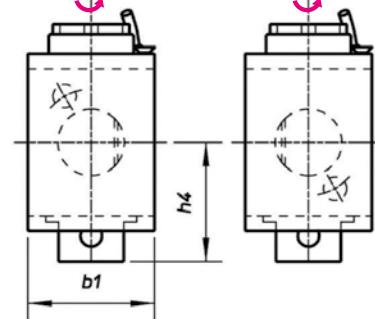
Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	Nm	Rpm	kw	
99.DP.0910	30	ER-25 - Ø1+16	✓	45	94	39	88	62	31	64	32	6000	8	
99.DP.0911	40	ER-32 - Ø2+20	✓	53	115	54	97	73	35	70	63	5000	10	
99.DP.0913	50	ER-40 - Ø3+30	✓	70	120	45	102	88	44	88	100	4000	12	
99.DP.0914	60	ER-50 - Ø7+34	✓	83	170	69	109	110	55	110	160	3200	15	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 25 / VDI 30 / VDI 50**


Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Radiale - Radial

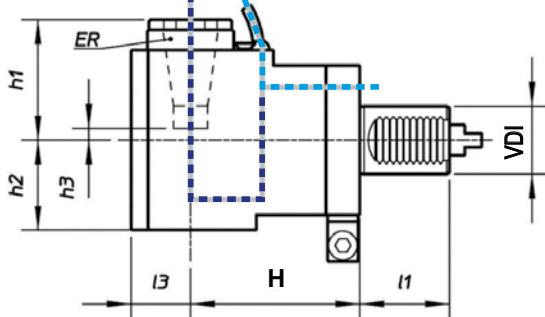
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

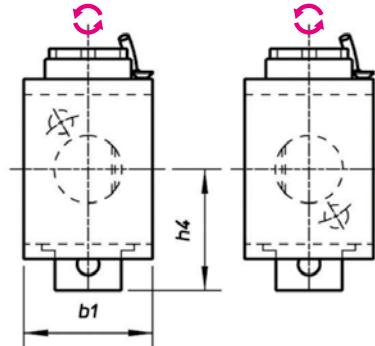
**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.DP.0918	20	ER-20 - Ø1÷13	NO	35	60	25	50	60	38	19	57	13	6000	5	
99.DP.0919	30	ER-25 - Ø1÷16	NO	45	55	31	64	56	48	3	52	32	6000	8	
99.DP.0920	30	ER-25 - Ø1÷16	NO	45	85	31	64	56	48	3	52	32	6000	8	
99.DP.0921	30	ER-25 - Ø1÷16	NO	45	100	31	64	56	48	3	52	32	6000	8	
99.DP.0922	40	ER-32 - Ø2÷20	NO	53	100	35	76	71	55	11	71	63	5000	10	
99.DP.0923	50	ER-40 - Ø3÷30	NO	70	110	44	88	92	73	16	79	100	4000	12	
99.DP.0924	60	ER-50 - Ø7÷34	NO	83	130	52	110	149	83	46	100	160	3200	15	

**4**

**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Radiale - Radial

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
25BAR

**RATIO**  
1:1

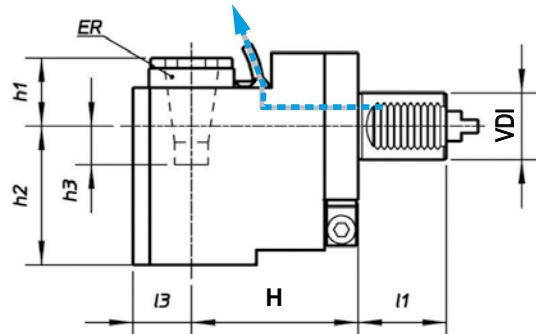
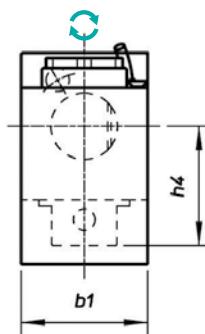
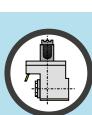
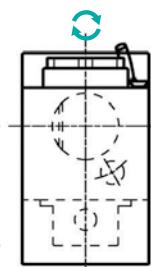
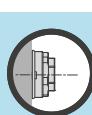
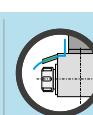
**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw	
99.DP.0925	30	ER-25 - Ø1÷16	✓	45	55	31	64	56	60	3	52	32	6000	8	
99.DP.0926	30	ER-25 - Ø1÷16	✓	45	85	31	64	56	60	3	52	32	6000	8	
99.DP.0927	30	ER-25 - Ø1÷16	✓	45	100	31	64	56	60	3	52	32	6000	8	
99.DP.0928	40	ER-32 - Ø2÷20	✓	53	100	35	76	71	62	11	71	63	5000	10	
99.DP.0929	50	ER-40 - Ø3÷30	✓	70	110	44	88	92	73	16	79	100	4000	12	
99.DP.0930	60	ER-50 - Ø7÷34	✓	83	130	52	110	149	83	46	100	160	3200	15	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 25 / VDI 30 / VDI 50**

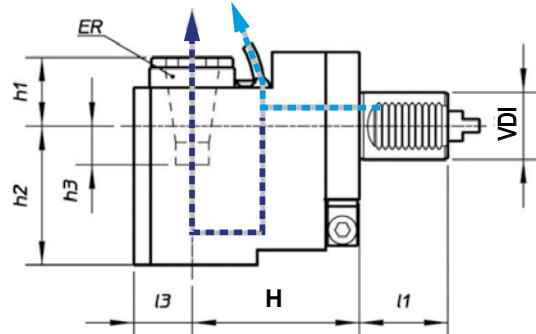
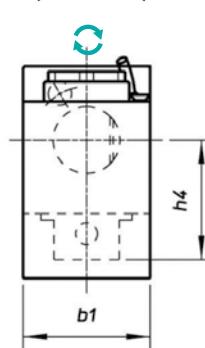
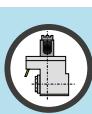
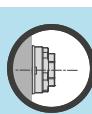
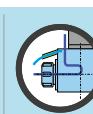

Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Arretrato  
Rear Offset

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.DP.0931	20	ER-16 - Ø1÷10	NO	35	75	26	50	28	48	4	56	13	6.000	5
99.DP.0932	30	ER-25 - Ø1÷16	NO	45	85	31	64	14,5	90	45	52	32	5.000	8
99.DP.0933	40	ER-32 - Ø2÷20	NO	53	100	35	76	20	106	40	72,5	63	4.000	10
99.DP.0934	50	ER-40 - Ø3÷30	NO	70	110	44	88	31	136	46	79	100	4.000	12

**4**

**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Arretrato  
Rear Offset

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
25BAR

**RATIO**  
1:1

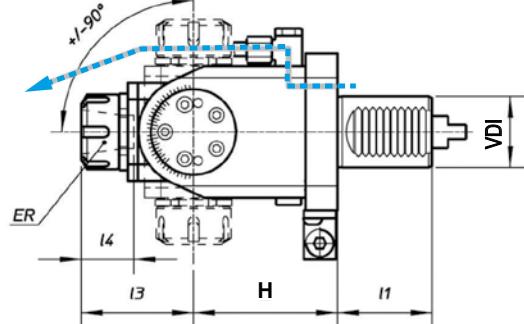
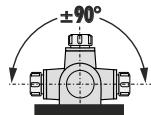
**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

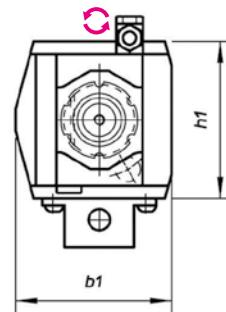
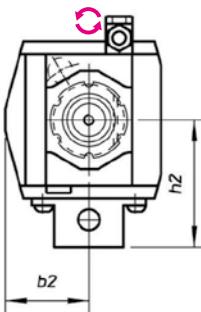
Code	VDI	Output	Int Cool.	H	I2	I3	b1	h1	h2	h3	h4	Nm	Rpm	kw
99.DP.0935	30	ER-25 - Ø1÷16	✓	85	45	31	64	24	105,5	45,5	52	32	5.000	8
99.DP.0936	40	ER-32 - Ø2÷20	✓	100	53	35	76	30	124	40	72,5	63	4.000	10
99.DP.0937	50	ER-40 - Ø3÷30	✓	110	70	44	88	44	136	46	79	100	4.000	12

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**VDI 20 / VDI 25 / VDI 30 / VDI 50**


Vedi pagine compatibilità 5.2 / 5.3 - See compatibility pages 5.2 / 5.3


**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Orientabile  
Adjustable ±90°

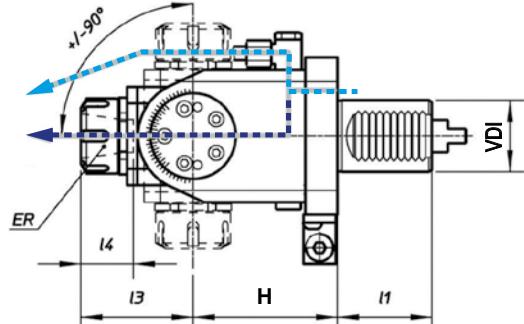
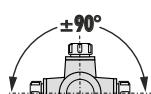
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

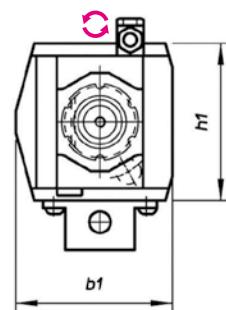
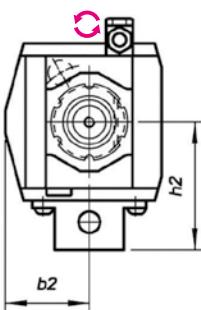
**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	h2	Nm	Rpm	kw	
99.DP.0940	30	ER-20 - Ø1÷13	NO	45	64	52	37	70	37	64	54	15	6.000	3	
99.DP.0941	30	ER-20 - Ø1÷13	NO	45	97	52	37	70	37	64	54	15	6.000	3	
99.DP.0942	40	ER-25 - Ø1÷16	NO	53	81	63	42	87	47	88	71	25	5.000	4	

**4**

**SINISTRO - LEFT**  
(Standard)

**DESTRO - RIGHT**  
(Specify)

**TIPO - TYPE**  
Orientabile  
Adjustable ±90°

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
25BAR

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	VDI	Output	Int Cool.	I1	H	I3	I4	b1	b2	h1	h2	Nm	Rpm	kw	
99.DP.0943	30	ER-20 - Ø1÷13	✓	45	64	52	37	70	37	64	54	15	6.000	3	
99.DP.0944	30	ER-20 - Ø1÷13	✓	45	97	52	37	70	37	64	54	15	6.000	3	
99.DP.0945	40	ER-25 - Ø1÷16	✓	53	81	63	42	87	47	88	71	25	5.000	4	

## PINZE - COLLETS ER-DIN 6499

**PRECISIONE - RUN OUT**
 **$\leq 0,010$** 

**Pinza ER Collet  
Art. 170/ER**

## PINZE - COLLETS ET-1 (Compensate - Compensated)


**Pinza ET-1 Collet  
Art. 170/C**

### Foratura-fresatura / Drilling-milling

<b>PINZA COLLET</b>	<b><math>\varnothing</math></b>	<b>Code</b>	
ER 11	$\varnothing 1 / 7$	<a href="#">9.ER.11000 / 1 (01)</a>	
ER 16	$\varnothing 1 / 10$	<a href="#">9.ER.16000 / 1 (01)</a>	
ER 20	$\varnothing 1 / 13$	<a href="#">9.ER.20000 / 1 (01)</a>	
ER 25	$\varnothing 1 / 16$	<a href="#">9.ER.25000 / 1 (01)</a>	
ER 32	$\varnothing 2 / 20$	<a href="#">9.ER.32000 / 2 (02)</a>	
ER 40	$\varnothing 3 / 30$	<a href="#">9.ER.40000 / 3 (03)</a>	

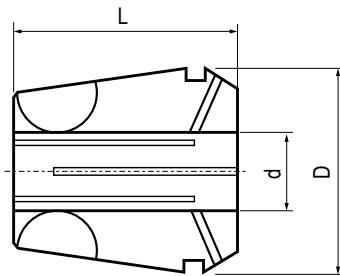
### Maschiatura / Tapping

<b>PINZA ET1 COLLET ET1</b>	<b><math>\varnothing</math></b>	<b>Code</b>	
-	-	-	
ET 1-16 (M2-M8)	$\varnothing 1,4 / 6$	<a href="#">9.ET.16000</a>	
ET 1-20 (M2-M8)	$\varnothing 2,2 / 7$	<a href="#">9.ET.20000</a>	
ET 1-25 (M2-M12)	$\varnothing 2,5 / 10$	<a href="#">9.ET.25000</a>	
ET 1-32 (M3,5-M16)	$\varnothing 4,5 / 12,5$	<a href="#">9.ET.32000</a>	
ET 1-32 (M6-M16)	$\varnothing 6 / 15$	<a href="#">9.ET.32000</a>	

**4**

## PINZE SINGOLE ER-WP - RESISTENTI ALL' ACQUA ER-WP - SINGLE COLLETS WATER PROOF

**PRECISIONE - RUN OUT**
 **$\leq 0,010$** 

**Set pinze ER Collet set  
Art. 170/WP**

**Pressione esercizio Max 40bar / 600psi**  
 Working pressure Max 40bar / 600psi

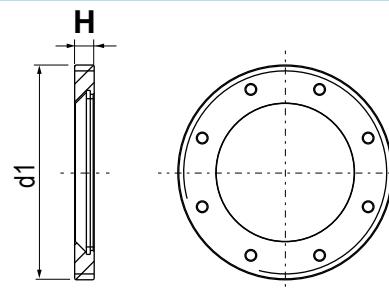
<b>TIPO TYPE</b>	<b>D</b>	<b>L</b>	<b><math>\varnothing</math></b>	<b>PROGRESSIONE PROGRESSION</b>	<b>DIN</b>	<b>Code</b>	
ER11 WP	11,5	18	$\varnothing 1 \div 7$	0,5	6499/A	<a href="#">9.WP.11000 / 3 (03)</a>	
ER16 WP	17	27	$\varnothing 1 \div 10$	0,5	6499/A	<a href="#">9.WP.16000 / 3 (03)</a>	
ER20 WP	21	31,5	$\varnothing 2 \div 13$	0,5	6499/A	<a href="#">9.WP.20000 / 3 (03)</a>	
ER25 WP	26	34	$\varnothing 2 \div 16$	0,5	6499/A	<a href="#">9.WP.25000 / 3 (03)</a>	
ER32 WP	33	40	$\varnothing 3 \div 20$	0,5	6499/A	<a href="#">9.WP.32000 / 3 (03)</a>	
ER40 WP	41	46	$\varnothing 4 \div 26$	0,5	6499/A	<a href="#">9.WP.40000 / 4 (04)</a>	

 Pinze HP su richiesta (Capitolo 7, Pag. 7.6) - HP Collets on request (Chapter 7 - Page 7.6)  
 Esempio di ordinazione - Example to order : ER25 - Ø10 = 9.ER.25000/10

## GHIERE - NUTS EF



Ghiera EF Nut  
**Art. 173**



**Ghiera con filetto esterno e fori frontalini - Filetto interno**  
Nut with external thread and frontal holes - Internal thread

TIPO GHIERA NUT TYPE	d1	H	Code	
ER-16 EF	M24x1	8	<a href="#">9.ER.160EF</a>	
ER-20 EF	M28x1,5	11	<a href="#">9.ER.200EF</a>	
ER-25 EF	M32x1,5	12	<a href="#">9.ER.250EF</a>	
ER-32 EF	M40x1,5	14	<a href="#">9.ER.320EF</a>	

## CHIAVI - WRENCHES EF



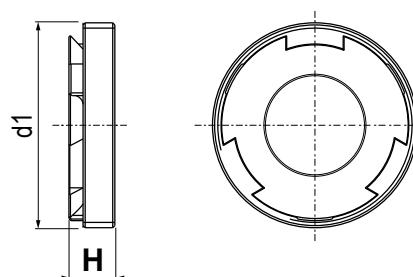
Chiave EF Wrench  
**Art. 173/CH**

**Chiave per ghiera con fori frontalini**  
Wrench for nut with frontal holes

CHIAVI WRENCHES	Code	
CH-16 EF	<a href="#">9.CH.160EF</a>	
CH-20 EF	<a href="#">9.CH.200EF</a>	
CH-25 EF	<a href="#">9.CH.250EF</a>	
CH-32 EF	<a href="#">9.CH.320EF</a>	



Ghiera ZZ Nut  
**Art. 174**



Avvitatore  
Screw on adapter

**Ghiera compatta a settori frontalini + Avvitatore - Filetto esterno**  
Compact frontal nut + Screw on adapter - External thread

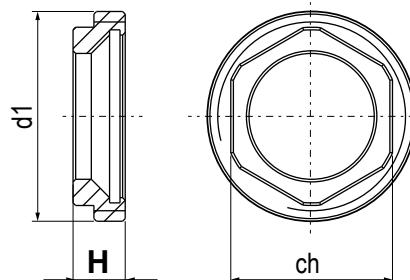
**NON VENDIBILI SEPARATAMENTE - NOT SALEABLE SEPARATELY**

TIPO GHIERA NUT TYPE	d1	H	Code	
ER-16 ZZ	M24x1	6	<a href="#">9.ER.160ZZ</a>	
ER-20 ZZ	M28x1,5	6,5	<a href="#">9.ER.200ZZ</a>	
ER-25 ZZ	M32x1,5	7	<a href="#">9.ER.250ZZ</a>	
ER-32 ZZ	M40x1,5	7,5	<a href="#">9.ER.320ZZ</a>	
ER-40 ZZ	M50x1,5	10	<a href="#">9.ER.400ZZ</a>	

## GHIERE - NUTS ES - EZ



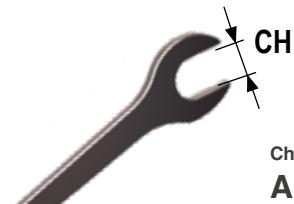
Ghiera ES Nut  
**Art. 175**



**Ghiera esagonale - Filetto esterno**  
Hexagonal nut - External thread

TIPO GHIERA NUT TYPE	d1	H	CH	Code	
ER-20 ES	M28x1,5	14	22	<a href="#">9.ER.200ES</a>	
ER-25 ES	M32x1,5	14	27	<a href="#">9.ER.250ES</a>	
ER-32 ES	M40x1,5	17,5	32	<a href="#">9.ER.320ES</a>	

## CHIAVI - WRENCHES ES - EZ



Chiave ES Wrench  
**Art. 175/CH**

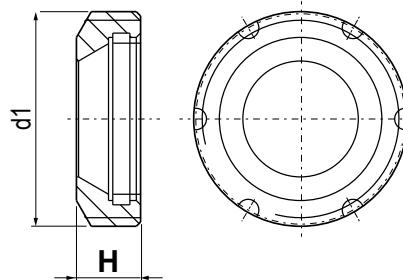
**Chiave per ghiera esagonale**  
Wrench for hexagonal nut

CHIAVI WRENCHES	Code	
CH-20 ES	<a href="#">9.CH.200ES</a>	
CH-25 ES	<a href="#">9.CH.250ES</a>	
CH-32 ES	<a href="#">9.CH.320ES</a>	

4



Ghiera EZ Nut  
**Art. 176**



**Ghiera con settori radiali - Filetto interno**  
Nut with radial section - Internal thread

TIPO GHIERA NUT TYPE	d1	H	Code	
ER-40 EZ	M50x1,5	20	<a href="#">9.ER.A00EZ</a>	



Chiave EZ Wrench  
**Art. 176/CH**

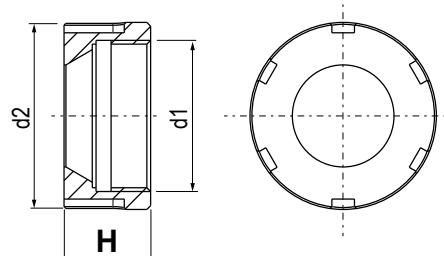
**Chiave per ghiera con settori radiali**  
Wrench for nut with radial section

CHIAVI WRENCHES	Code	€
CH-40 EZ	<a href="#">9.CH.400EZ</a>	<i>On Request</i>

## GHIERE - NUTS MINI



Ghiera MINI Nut  
**Art. 177**



**Ghiera tipo Mini - Filetto interno**  
Nut Mini type - Internal thread

TIPO GHIERA NUT TYPE	d1	d2	H	Code	
ER-20 MINI	M24x1	28	19	9.ER.2000M	

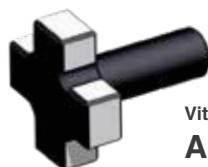
## CHIAVI - WRENCHES MINI



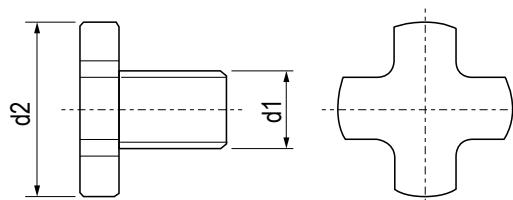
Chiave MINI Wrench  
**Art. 177/CH**

**Chiave per ghiera mini**  
Wrench for nut type mini

CHIAVI WRENCHES	Code	
CH-20 Mini	9.CH.2000M	



Vite PF Screw  
**Art. 178**



**Vite di chiusura DIN6367 Portafresa**  
Shell end milling cutter Lock screw DIN6367

VITE SCREW	d1	d2	Code	
PF-16 VT	M8	20	9.PF.160VT	
PF-22 VT	M10	28	9.PF.220VT	
PF-27 VT	M12	35	9.PF.270VT	



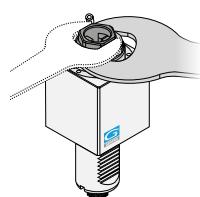
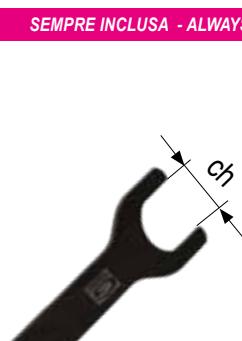
Chiave PF Screw  
**Art. 178/CH**

**Chiave per vite di chiusura DIN6367**  
Wrench for lock screw DIN6367

CHIAVI WRENCHES	Code	
CH16 PF	9.CH.160VT	
CH16 PF	9.CH.220VT	
CH16 PF	9.CH.270VT	

## CHIAVI - WRENCHES VDI

SEMPRE INCLUSA - ALWAYS INCLUDED



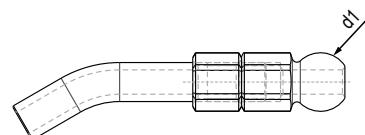
Chiave - Wrench  
**Art. 179/CH**

**Chiave per bloccaggio albero motorizzato**  
Driven tools lock shank wrench

CHIAVI WRENCHES	ER	ch	Code	
CH-27 ES	16	27	9.CH.270ES	
CH-36 ES	20	36	9.CH.360ES	
CH-41 ES	25	41	9.CH.410ES	
CH-46 ES	32	46	9.CH.460ES	
CH-56 ES	40	56	9.CH.560ES	

4

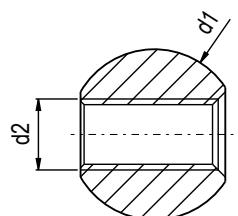
## UGELLI REFRIGERAZIONE COOLING - NOZZLES



Ugello - Nozzle  
**Art. 180**

**Ugello di refrigerazione**  
Cooling nozzle

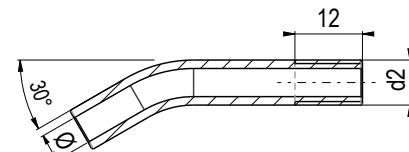
d1	Code	
9	9.18.00009	
11	9.18.00011	



Sfera - Ball Pin  
**Art. 179**

**Sfera ugello**  
Nozzle ball pin

d1	d2	Code	
10	M5	9.17.900M5	
12	M8	9.17.900M8	



Ugello - Nozzle  
**Art. 181**

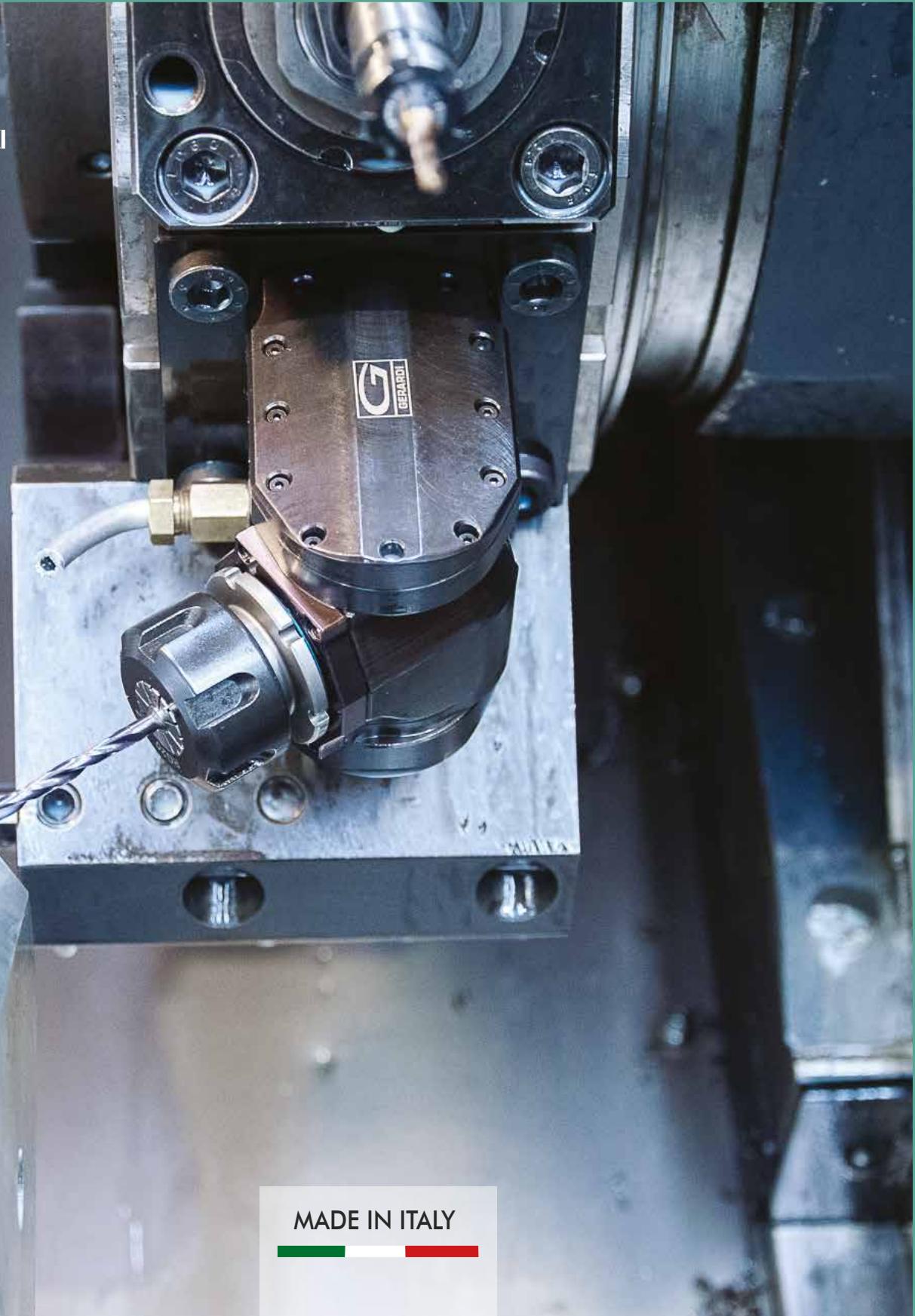
**N.12 Prolunghe per ugello di refrigerazione**  
#12 cooling nozzle extensions

d1	d2	Code	
10	M5	9.18.100M5	
12	M8	9.18.100M8	



## GERARDI MOTORIZZATI - DRIVEN TOOLS

- BIGLIA
- CMZ
- BMT
- DMG/MORI SEIKI
- GOODWAY
- HAAS
- MAZAK
- MIYANO
- NAKAMURA
- OKUMA
- SPINNER
- TSUGAMI



# INDICE - INDEX

PAGE 5.12 - 5.15

## BIGLIA

### BMT40

<b>ASSIALE PORTA PINZA</b>	<b>ASSIALE PORTA PINZA</b>	<b>ASSIALE DISASSATO</b>
AXIAL COLLET CHUCK	AXIAL COLLET CHUCK	AXIAL OFF-SET
<b>ASSIALE PORTA FRESA</b>	<b>RADIALE PORTA PINZA</b>	<b>ASSIALE PORTA FRESA</b>
AXIAL SHELL END MILLING CUTTER	RADIAL COLLET CHUCK	AXIAL SHELL END MILLING CUTTER
<b>RADIALE PORTA PINZA</b>	<b>DOPPIO ASSIALE PORTA PINZA</b>	<b>RADIALE PORTA PINZA</b>
RADIAL COLLET CHUCK	DOUBLE AXIAL COLLET CHUCK	RADIAL COLLET CHUCK
<b>RADIALE PORTA FRESA</b>	<b>RADIALE DOPPIO PORTA PINZA</b>	<b>ASSIALE WELDON</b>
RADIAL SHELL END MILLING CUTTER	DOUBLE RADIAL COLLET CHUCK	AXIAL WELDON OUTPUT
<b>ORIENTABILE ±90°</b>	<b>ORIENTABILE ±90°</b>	
ADJUSTABLE ±90°	ADJUSTABLE ±90°	

PAGE 5.16 - 5.22

## DRIVEN TOOLS

### BMT55

<b>ASSIALE PORTA PINZA</b>	<b>ASSIALE PORTA PINZA</b>	<b>ASSIALE DISASSATO</b>
AXIAL COLLET CHUCK	AXIAL COLLET CHUCK	AXIAL OFF-SET
<b>ASSIALE PORTA FRESA</b>	<b>RADIALE PORTA PINZA</b>	<b>ASSIALE PORTA FRESA</b>
AXIAL SHELL END MILLING CUTTER	RADIAL COLLET CHUCK	AXIAL SHELL END MILLING CUTTER
<b>RADIALE PORTA PINZA</b>	<b>DOPPIO ASSIALE PORTA PINZA</b>	<b>RADIALE PORTA PINZA</b>
RADIAL COLLET CHUCK	DOUBLE AXIAL COLLET CHUCK	RADIAL COLLET CHUCK
<b>RADIALE PORTA FRESA</b>	<b>RADIALE DOPPIO PORTA PINZA</b>	<b>ASSIALE WELDON</b>
RADIAL SHELL END MILLING CUTTER	DOUBLE RADIAL COLLET CHUCK	AXIAL WELDON OUTPUT
<b>ORIENTABILE ±90°</b>	<b>ORIENTABILE ±90°</b>	
ADJUSTABLE ±90°	ADJUSTABLE ±90°	

PAGE 5.48 - 5.55

PAGE 5.56 - 5.61

## DMG MORI

## DRIVEN TOOLS

### NLX

### NZ

<b>ASSIALE PORTA PINZA / WELDON / C. ISO26623</b>	<b>ARRETRATO</b>	<b>ASSIALE PORTA PINZA / WELDON</b>	<b>DOPPIO ARRETRATO RADIALE PORTA PINZA</b>
AXIAL COLLET CHUCK / WELDON / C. ISO26623	REAR OFFSET	AXIAL COLLET CHUCK / WELDON	DOUBLE REAR OFFSET RADIAL COLLET CHUCK
<b>ASSIALE PORTA FRESA</b>	<b>DOPPIO RADIALE PORTA PINZA</b>	<b>ASSIALE PORTA FRESA</b>	<b>DOPPIO RADIALE PORTA PINZA</b>
AXIAL SHELL END MILLING CUTTER	DOUBLE RADIAL COLLET CHUCK	AXIAL SHELL END MILLING CUTTER	DOUBLE RADIAL COLLET CHUCK
<b>DISASSATO PORTAPINZA</b>	<b>RADIALE PORTA PINZA 4 / 8 USCITE</b>	<b>DOPPIO ASSIALE PORTA PINZA</b>	<b>ORIENTABILE ±90°</b>
OFFSET AXIS COLLET CHUCK	RADIAL COLLET CHUCK 4 / 8 OUTPUTS	DOUBLE AXIAL COLLET CHUCK	ADJUSTABLE ±90°
<b>DOPPIO ASSIALE PORTA PINZA</b>	<b>ORIENTABILE ±90°</b>	<b>RADIALE PORTA PINZA / WELDON</b>	
DOUBLE AXIAL COLLET CHUCK	ADJUSTABLE ±90°	RADIAL COLLET CHUCK	
<b>RADIALE PORTA PINZA / WELDON / C. ISO26623</b>	<b>PORTA CREATORE</b>	<b>RADIALE PORTA FRESA</b>	
RADIAL COLLET CHUCK / WELDON / C. ISO26623	DRIVEN GEAR HOBBER	RADIAL SHELL END MILLING CUTTER	
<b>RADIALE PORTA FRESA</b>		<b>ARRETRATO</b>	
RADIAL SHELL END MILLING CUTTER		REAR OFFSET	

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PAGE 5.76 - 5.77

PAGE 5.78 - 5.81

## HAAS

## DRIVEN TOOLS

L=104,85

L=117,55

L=130,25

**BMT 65**

<b>ASSIALE PORTA PINZA</b>	<b>ASSIALE PORTA PINZA</b>	<b>ASSIALE PORTA PINZA</b>	<b>ASSIALE PORTA PINZA</b>
AXIAL COLLET CHUCK	AXIAL COLLET CHUCK	AXIAL COLLET CHUCK	AXIAL COLLET CHUCK
<b>RADIALE PORTA PINZA</b>	<b>RADIALE PORTA PINZA</b>	<b>RADIALE PORTA PINZA</b>	<b>RADIALE PORTA PINZA</b>
RADIAL COLLET CHUCK	RADIAL COLLET CHUCK	RADIAL COLLET CHUCK	RADIAL COLLET CHUCK
<b>ORIENTABILE ±90°</b>	<b>ORIENTABILE ±90°</b>	<b>ORIENTABILE ±90°</b>	<b>ORIENTABILE ±90°</b>
ADJUSTABLE ±90°	ADJUSTABLE ±90°	ADJUSTABLE ±90°	ADJUSTABLE ±90°

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# BMT

## DRIVEN TOOLS

**45**

**55**

**65**

**75**

**85**

ASSIALE PORTA PINZA AXIAL COLLET CHUCK	ASSIALE PORTA PINZA AXIAL COLLET CHUCK			
DISASSATO AXIAL OFF-SET	DISASSATO AXIAL OFF-SET	RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA PINZA RADIAL COLLET CHUCK
RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA FRESA RADIAL SHELL END MILLING CUTTER	RADIALE PORTA FRESA RADIAL SHELL END MILLING CUTTER	RADIALE PORTA FRESA RADIAL SHELL END MILLING CUTTER
RADIALE PORTA FRESA RADIAL SHELL END MILLING CUTTER	RADIALE PORTA FRESA RADIAL SHELL END MILLING CUTTER	DOPPIO RADIALE PORTA PINZA DOUBLE RADIAL COLLET CHUCK	DOPPIO RADIALE PORTA PINZA DOUBLE RADIAL COLLET CHUCK	ORIENTABILE ±90° ADJUSTABLE ±90°
DOPPIO RADIALE PORTA PINZA DOUBLE RADIAL COLLET CHUCK	DOPPIO RADIALE PORTA PINZA DOUBLE RADIAL COLLET CHUCK	ORIENTABILE ±90° ADJUSTABLE ±90°	ORIENTABILE ±90° ADJUSTABLE ±90°	
ORIENTABILE ±90° ADJUSTABLE ±90°	ORIENTABILE ±90° ADJUSTABLE ±90°			

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# DMG MORI

## SL/ZL/DL

ASSIALE PORTA PINZA AXIAL COLLET CHUCK	ASSIALE PORTA PINZA AXIAL COLLET CHUCK
RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA PINZA RADIAL COLLET CHUCK
RADIALE ROVESCIATO RADIAL UPSIDE DOWN	
DOPPIO RADIALE PORTA PINZA DOUBLE RADIAL COLLET CHUCK	
ORIENTABILE ±90° ADJUSTABLE ±90°	

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# GOODWAY

## G1/G4

5

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# MAZAK

## DRIVEN TOOLS

QUICK TURN NEXUS 1	QUICK TURN NEXUS 2	QUICK TURN NEXUS 3	QUICK TURN SMART	HYPER QUADREX
DISASSATO PORTAPINZA OFFSET AXIS COLLET CHUCK	DISASSATO PORTA PINZA OFFSET AXIS COLLET CHUCK	DISASSATO PORTAPINZA OFFSET AXIS COLLET CHUCK	ASSIALE PORTA PINZA AXIAL COLLET CHUCK	DISASSATO PORTAPINZA OFFSET AXIS COLLET CHUCK
RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA PINZA RADIAL COLLET CHUCK	RADIALE PORTA PINZA RADIAL COLLET CHUCK
RADIALE ROVESCIATO RADIAL UPSIDE DOWN	RADIALE ROVESCIATO RADIAL UPSIDE DOWN	RADIALE ROVESCIATO RADIAL UPSIDE DOWN	RADIALE DOPPIO DOUBLE RADIAL	RADIALE DOPPIO DOUBLE RADIAL
RADIALE DOPPIO DOUBLE RADIAL	RADIALE DOPPIO DOUBLE RADIAL	RADIALE DOPPIO DOUBLE RADIAL	ORIENTABILE ±90° ADJUSTABLE ±90°	
ORIENTABILE ±90° ADJUSTABLE ±90°	DOPPIO ARRETRATO DOUBLE REAR OFFSET	ORIENTABILE ±90° ADJUSTABLE ±90°		
	ORIENTABILE ±90° ADJUSTABLE ±90°			

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## MIYANO DRIVEN TOOLS

**Ø38**
**Ø45**
**Ø54**
**ASSIALE PORTA PINZA**  
AXIAL COLLET CHUCK

**ASSIALE PORTA PINZA**  
AXIAL COLLET CHUCK

**ASSIALE PORTA PINZA**  
AXIAL COLLET CHUCK

**RADIALE PORTA PINZA**  
RADIAL COLLET CHUCK

**ASSIALE PORTA FRESA**  
AXIAL SHELL END MILLING CUTTER

**ASSIALE PORTA FRESA**  
AXIAL SHELL END MILLING CUTTER

**ARRETRATO DOPPIO**  
DOUBLE REAR OFFSET

**RADIALE PORTA PINZA**  
RADIAL COLLET CHUCK

**RADIALE PORTA PINZA**  
RADIAL COLLET CHUCK

**RADIALE DOPPIO**  
DOUBLE RADIAL

**RADIALE PORTA FRESA**  
RADIAL SHELL END MILLING CUTTER

**RADIALE PORTA FRESA**  
RADIAL SHELL END MILLING CUTTER

**ORIENTABILE ±90°**  
ADJUSTABLE ±90°

**RADIALE DOPPIO**  
DOUBLE RADIAL

**RADIALE DOPPIO**  
DOUBLE RADIAL

**ORIENTABILE ±90°**  
ADJUSTABLE ±90°

**ORIENTABILE ±90°**  
ADJUSTABLE ±90°

**ORIENTABILE ±90°**  
ADJUSTABLE ±90°

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## OKUMA

**BMT55**
**BMT60**

## SPINNER

**BMT45**
**VDI30**
**ASSIALE PORTA PINZA**  
AXIAL COLLET CHUCK

**RADIALE PORTA PINZA**  
RADIAL COLLET CHUCK

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## ACCESSORIES

### DRIVEN TOOLS

**CAMBI RAPIDI MODULARI**  
MODULAR QUICK CHANGE ADAPTORS

**CHIAVI PER GHIERE ZZ / ES**  
WRENCHES FOR ZZ / ES NUTS

**CHIAVE PER VITE DI CHIUSURA PORTA FRESA**  
WRENCH FOR SHELL END MILLING CUTTER LOCK SCREW

**PINZE ER-DIN6499 / ET-1**  
ER-DIN / ET-1 COLLETS

**GHIERE EF / EZ**  
EF / EZ NUTS

**UGELLO DI RFRIGERAZIONE**  
COOLING NOOZLE

**GHIERE STD**  
STD NUTS

**CHIAVI PER GHIERE EF / EZ**  
WRENCHES FOR EF / EZ NUTS

**CHIAVI PER GHIERE STD**  
WRENCHES FOR STD NUTS

**GHIERE A SETTORI FRONTALI + AVVITATORE**  
FRONTAL NUT + SCREW ON ADAPTER

**GHIERE ZZ / ES**  
ZZ / ES NUTS

**VITE DI CHIUSURA PORTA FRESA**  
SHELL END MILLING CUTTER LOCK SCREW

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# NAKAMURA DRIVEN TOOLS

## BMT44

**ASSIALE PORTA PINZA**  
AXIAL COLLET CHUCK

**RADIALE PORTA PINZA**  
RADIAL COLLET CHUCK

**RADIALE DOPPIO**  
DOUBLE RADIAL

**ORIENTABILE ±90°**  
ADJUSTABLE ±90°

## BMT55

**ASSIALE PORTA PINZA**  
AXIAL COLLET CHUCK

**RADIALE PORTA PINZA**  
RADIAL COLLET CHUCK

**RADIALE DOPPIO**  
DOUBLE RADIAL

**ORIENTABILE ±90°**  
ADJUSTABLE ±90°

## BMT65

**ASSIALE PORTA PINZA**  
AXIAL COLLET CHUCK

**RADIALE PORTA PINZA**  
RADIAL COLLET CHUCK

**RADIALE DOPPIO**  
DOUBLE RADIAL

**ORIENTABILE ±90°**  
ADJUSTABLE ±90°

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# TSUGAMI DRIVEN TOOLS

## BMT65

**ASSIALE PORTA PINZA**  
AXIAL COLLET CHUCK

**DISASSATO PORTAPINZA**  
OFFSET AXIS COLLET CHUCK

**DISASSATO DOPPIO PORTAPINZA**  
DOUBLE OFFSET AXIS COLLET CHUCK

**RADIALE PORTA PINZA**  
RADIAL COLLET CHUCK

**ARRETRATO**  
REAR OFFSET

**ARRETRATO DOPPIO**  
DOUBLE REAR OFFSET

**RADIALE 4 USCITE PORTA PINZA**  
4 OUTPUTS RADIAL COLLET CHUCK

**ORIENTABILE ±90°**  
ADJUSTABLE ±90°

## NOVITÀ PORTA UTENSILI MOTORIZZATI DRIVEN TOOL HOLDERS NEWS



### BIGLIA lathes

- Nuova gamma per torni con attacco BMT40
- New range of Driven Tools for BMT40 lathe



### BMT lathes

- Molti nuovi modelli con rotazione concorde al mandrino
- Compatibilità BMT65 con torrette HAAS
- Modelli con uscita C.ISO26623 disponibili su richiesta
- New types of Driven Tools with the same rotation as mach. spindle
- BMT65 driven tools now compatibles with HAAS turrets
- Driven Tools with C.ISO26623 output availables on request



### DMG MORI lathes

- Molti nuovi modelli per torni NLX e NZ
- Disponibili modelli con uscite multiple e portacreatore
- Modelli con uscita C.ISO26623 disponibili su richiesta
- New driven tools for NLX and NZ lathes
- Available multiple outputs types and Driven gear hobber
- Driven Tools with C.ISO26623 output availables on request



### HAAS lathes

- Nuova gamma di motorizzati BMT65 da ora compatibili con torrette HAAS
- New range of BMT65 Driven Tools now compatible with HAAS turrets



### MAZAK lathes

- Nuova modelli QTN2
- Modelli con uscita C.ISO26623 disponibili su richiesta
- New driven tools for QTN2 lathes
- Driven Tools with C.ISO26623 output availables on request



### OKUMA lathes

- Nuova gamma di motorizzati per torni OKUMA presto in espansione
- Modelli con uscita C.ISO26623 disponibili su richiesta
- New range of Driven tools for OKUMA lathes soon in progress
- Driven Tools with C.ISO26623 output availables on request

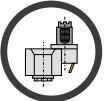
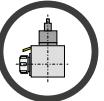
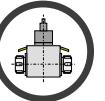
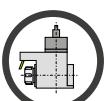
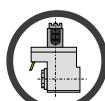
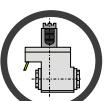


### TSUGAMI lathes

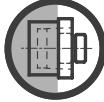
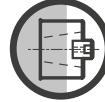
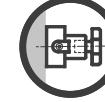
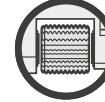
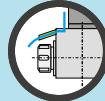
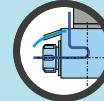
- Nuova ampia gamma di motorizzati per torni TSUGAMI BMT65
- New wide range of Driven tools for TSUGAMI BMT65 lathes



## SIMBOLI TIPOLOGIE MOTORIZZATI DRIVEN TOOLS DESIGN LOGOS

							
<b>Assiale</b> Axial	<b>Assiale doppio</b> Double Axial	<b>Disassato</b> Offset Axis	<b>Disassato Doppio</b> Double Offset Axis	<b>Radiale</b> Radial	<b>Radiale Doppio</b> Double Radial	<b>Radiale 4 Uscite</b> Radial 4 Outputs	<b>Radiale 8 Uscite</b> Radial 8 Outputs
							
<b>Radiale Rovesciato</b> Radial Upside Down	<b>Arretrato</b> Rear Offset	<b>Arretrato Doppio</b> Double Rear Offset	<b>Orientabile ±90°</b> Adjustable ±90°	<b>Portacreatore</b> Driven Gear Hobber			

## SIMBOLOGIA DATI TECNICI TECHNICAL DATA LOGOS

<b>USCITA</b> OUTPUT						
PASSAGGIO REFRIGERANTE COOLANT						
				<b>Refrigerante Esterno</b> External Coolant	<b>Refrigerante Interno</b> Internal Coolant	<b>ReCool NUT</b>
				20 / 25 / 80 100bar		
<b>USCITA</b> OUTPUT						
			<b>Rapporto</b> Ratio	<b>Rotazione uguale al mandrino</b> Rotation same as machine spindle	<b>Rotazione opposta al mandrino</b> Rotation opposite as machine spindle	<b>Rotaz. uguale ed opposta al mandrino</b> Rotation same & opposite as machine spindle

**COMPATIBILITÀ MOTORIZZATI**  
 DRIVEN TOOLS COMPATIBILITY

*\* Su Richiesta - On Request*

Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	Tooling LP03 Pages	Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	Tooling LP03 Pages
<b>DIN 5480</b>		VDI 30, 40, 50, 60				PUMA 2100 / 2600 (M / LM / MS / LMS) (Y / LY / SY / LSY) PUMA 300 (M / MS / MB / MC) PUMA 3100 (M / MS / Y / SY) PUMA MX2000, 2500, 2600 (T / ST / SY) PUMA SMX, 3100 (ST) PUMA TT2000, 2500 (MS / SY) PUMA V400 (M) PUMA VT450 (M / M-2SP) PUMA INVERTURN 3000 (M)	
<b>DIN 5482</b>	<b>VDI</b>	VDI 20, 30, 40, 50	from page <b>4.11</b>			GLS 2800, 2300 GMS 2000 (ST) 15 Station Turrets GMT 2000 GS 2000, 2800 16 Station Turrets GTX/GTZ 2000, 2600 12 Station Turrets	
<b>BARUFFALDI</b>		VDI 20, 30, 40, 50, 60	to page <b>4.48</b>			DS30Y - ST20Y - ST25Y - ST30Y - ST35Y	
<b>DIN 1809</b>		VDI 20, 25, 30, 40, 50, 60				GS-65	
<b>BIGLIA</b>	<b>BMT 40</b>	B436	from page <b>5.12</b> to page <b>5.15</b>			CUTEX-240 (MC/SMC) HI-TECH 200, 230, 300, 400, 450 (MC/SMC/YMC/YSMC) T2-SERIES (MC/SMC/YMC/YSMC) VT-450	
	<b>BMT 55</b>	B501-Y, B301, B470, B455, B510, B550, B650, B658, 1200	from page <b>5.16</b> to page <b>5.22</b>			L300 (MA/MC/LMA/LMC/SMA/SMC/ LMSA) LM 2000, 2500 (TTM/TTMS/TTSY) L2000, 2100, 2600, 3000 (Y/LS/SY/LSY) SKT200, 250 (TTSY) SKT250, 300 (LM/LMS/M/MS)	
		LYNX 220 (M / LM / LMS / LY / LSY) LYNX 2100 (M / MS) PUMA MX 1600 (ST)				PL 20, 25, 35 (M) PL 2000, 2500M SL 25,35, SL 2500 (M / SY) SL3500 (Y)	
<b>DOOSAN</b>	<b>BMT 45</b>	GS 42, 51 T-42, 51 SUPER PRECISION TALENT 42, 51 AX 200 TMC 250, 350 NST 56/67 PL 1600 (M / CM) SL 15M VTURN NP-16 CM	from page <b>5.26</b> to page <b>5.31</b>			VTURN-A26 (CM / SCM / YCM / YSCM)	
Hardinge				<b>DOOSAN</b>		PUMA 400, 480, 500 (M / LM) PUMA 4100, 5100 (M / LY) PUMA V550, 8300 (M) PUMA VT750 (M / M-2SP)	
Jyoti				Hwacheon		HI-TECH 550, 700 (MC) VT-550, 650 (MC)	
Nexturn				<b>BMT 75</b>		L400 (MA / LM / LC / LMC) LV 800 (RM) V80 (R / RM) SKT-400 (M / LMC)	
Samsung				Hundai WIA		45 (M) 800 (VM) SL45 5500 (M)	
Victor				Samsung		V-TURN 40, 45 (CM / YCM)	
<b>DOOSAN</b>	<b>BMT 55</b>	LYNX 300 (M) PUMA 230, 240, 280 (M / LS / LM) PUMA 1500 / 2000 / 2500 (M / MS / Y / SY) PUMA 2100 (M / MS / Y / SY) PUMA GT 2100, 2600 (M) PUMA MX 1600, 2100 (ST / LST) PUMA TL 2000, 2500 (M / LM) PUMA TT 1500, 1800 (MS / SY) PUMA TW2600 (M)	from page <b>5.32</b> to page <b>5.36</b>			PUMA 600, 700, 800 (M / LM / LY) PUMA VT900 (M / M-2SP) PUMA VT1100 (M)	
		GTX, GTZ 2000, 2600 16 Station Turrets		Hwacheon		VT-950, 1150 (MC) HI-TECH 850 (MC / YMC)	
		CONQUEST H51 SUPER PRECISION T56 T-65		<b>BMT 85</b>		L600, 700, 800 (MA / LMA) LV1100 (RM) SKT600, 700 (LM)	
Goodway				Hundai WIA		PL 60, 70, 80 (M / LM) SL65 SLW1000 (M)	
Hardinge				Samsung		V-TURN V1000 (CM)	
Hwacheon				Victor			
Hyundai WIA							
Jyoti							
Samsung							
Victor							

**COMPATIBILITÀ MOTORIZZATI**  
 DRIVEN TOOLS COMPATIBILITY

*\* Su Richiesta - On Request*

Costruttore Builder Brand	Turret Turret	Modelli Macchina Lathe or turret Models	Tooling LP03 Pages	Costruttore Builder Brand	Turret Turret	Modelli Macchina Lathe or turret Models	Tooling LP03 Pages
<b>CMZ *</b>	<b>BMT 65</b>	TL 15 (M, MS, TM) TB 46 / 67 (M, CM)	<b>Soon on Catalogue</b>	<b>MIYANO</b>	<b>Ø38</b>	BNA 32, 42 (C / DHY / GTY / MSY / S)	
<b>DMG MORI</b>	<b>NL NLX</b>	NL, NLX 1500, 2000, 2500, 3000 - 12 Station Turrets NLX 4000 - 12 Station Turrets NT 4000, 4200, 4250, 4300, 5000, 5400 NZL 2000, 2500 NZX 2500 - 12 Station Turrets	from page <b>5.48</b> to page <b>5.55</b>	<b>MIYANO</b>	<b>Ø45</b>	ABX 51, 64 (TH2 / TH3) BNE 34, 51 (S/SY / MSY) BNX 42 (SY) BNJ 42 / 51 (S / SY) BND 51 (C / S / SY)	from page <b>5.106</b> to page <b>5.111</b>
<b>DMG MORI</b>	<b>NZ</b>	DURATURN 2050, 2550 (MC) NL, NLX 1500, 2000, 2500 - 20 Station Turrets NT, NTX 1000, 2000 NT 3000 / 3100 / 3150 / 3200 NRX 2000 NZ 1500, 2000 - 16 Station Turrets NZX 1500, 2000 - 20 Station Turrets	from page <b>5.56</b> to page <b>5.61</b>	<b>Goodway</b>		GLS 1500 / 2000 (M) GLS 150 / 200 (M) GTS 150 (M) GTW 1500	from page <b>5.112</b> to page <b>5.115</b>
<b>DMG MORI</b>		SL, ZL 150, 153, 154 (MC / SMC / Y / SY) DL 15, 150 (MC)		<b>MIYANO</b>	<b>Ø54</b>	ABX 51, 64 (SYY / THY)	
<b>DMG MORI</b>	<b>SL</b>	DL 200, 250 (MC) SL, ZL 200, 203, 204, 250, 253, 254 (MC / SMC) SL 2500Y	from page <b>5.62</b>	<b>NAKAMURA</b>	<b>BMT 44</b>	NTJ 100, SC 100 SUPER NTMX SUPER NY <sup>3</sup> WT, WY 100	from page <b>5.118</b> to page <b>5.119</b>
Cmz	<b>ZL</b>	TA 15, 20, 25, 30 (M / MS / Y / YS) TC 15, 20, 25, 30, 35 (M / MS / Y / YS) TD 15, 20, 25, 30, 35, 45, 55 (M / MS / Y / YS) TL 20, 25 (M / TM / MS)	from page <b>5.65</b>	<b>Muratec</b>		MT 100	
Goodway	<b>DL</b>	GA 2000, 2600, 2800, 3000, 3300, 3600 (M) GS 200, 230, 260, 280 (M / MS)		<b>NAKAMURA</b>	<b>BMT 55</b>	AS 200 (L / LS) 12/15 Station Turrets NTY <sup>3</sup> 150, 250 SC150, 200, 250 Super NTJ, NTJX, NTM <sup>3</sup> TW 10 TW 20 16 Station Turrets WT 150, 250 (II) WTS, WTW 150 WY 150, 250	from page <b>5.120</b> to page <b>5.122</b>
	<b>G1</b>	GLS 100, 150, 200 (M) BEVEL GEAR VERSION GTS 100, 150 (MMX) BEVEL GEAR VERSION	from page <b>5.68</b>	<b>Cmz</b>		TX 52, 66	
<b>GOODWAY</b>	<b>G3</b>	GTS 260 (MMX)	to page <b>5.69</b>	<b>NAKAMURA</b>	<b>BMT 65</b>	SC 300 SUPER NTX TMC 200, 300 (M) TW 20 12 Station Turrets TW 30 16 Station Turrets TW 300	from page <b>5.123</b> to page <b>5.124</b>
	<b>G4</b>	GS 2000, 2600, 2800, 4000 - 12 Station Turrets		<b>OKUMA</b>	<b>BMT 55</b>	LT 2000EX (M / MY) 16 Station Turrets	from page <b>5.128</b> to page <b>5.130</b>
	L= 104.85	<b>VDI TURRET</b> SL20 - SL30		<b>OKUMA</b>	<b>BMT 60</b>	GENOS L300 (MW / MYW) LB 2000, 2500, 3000 (EX) LU 2000, 2500, 3000 (EX) MULTUS U3000, 4000 (2SW)	page <b>5.131</b>
<b>HAAS</b>	L= 117.55	<b>VDI TURRET - 24 station turrets</b> SL40 ST10, 15, 20, 25, 30, 35 <b>HYBRID TURRET - 12 station turrets</b> DS30 SL 20, 30 - ST 10, 15, 20, 25, 30, 35 TL 15, 25	from page <b>5.72</b> to page <b>5.81</b>	<b>VDI25 SP</b>		- TD 42, 65 - TC, TTC 300	
	L= 130.25	<b>HYBRID TURRET - 12 station turrets</b> SL40 ST40, 45 (L)		<b>VDI30 SP</b>		- TC, TTC 300	page <b>5.134</b>
	<b>QTN1</b> QUICK TURN NEXUS SUPER QUICK TURN	QTN 100, 150 M/MS QTN 200, 250 M/MS/MY/MSY - 16 Station Turrets SQT 15, 18, 200, 250 M/MS/MY/MSY - 16 Station T. SQT 100 M/MS	from page <b>5.86</b> to page <b>5.88</b>	<b>BMT45 SP</b>		- TC 300 - TTC 300 (SMCY) - TC 600 (SMCY)	
	<b>QTN2</b> QUICK TURN NEXUS SUPER QUICK TURN	QTN 200, 250 M/MS/MY/MSY - 12 Station Turrets SQT 15, 18, 200, 250 M/MS/MY/MSY - 12 Station T. SUPER QUADREX 200, 250M	from page <b>5.89</b> to page <b>5.93</b>	<b>SPINNER *</b>		BARUFFALDI <b>VDI 30</b> - TC 400 - TC 600 (MC, MCY, SMCY)	
<b>MAZAK</b>	<b>QTN3</b> QUICK TURN NEXUS	QTN 300, 350, 400, 450 M/MY/MSY SQT 28, 30, 300, 350, 400, 450 M/MY SLANT TURN NEXUS 500, 550 M MEGATURN NEXUS 900M HYPER QUADREX 450M	from page <b>5.94</b> to page <b>5.96</b>	<b>BARUFFALDI</b> <b>VDI 40</b>		- TC 600 (MC, MCY, SMCY)	page <b>5.135</b>
	<b>HQ</b>	HYPER QUADREX 200, 250, MS/MSY - 12 Station T. MULTIPLEX 620, 6200Y, 6250, W-200Y - 12 Station T.	<b>5.101</b> <b>5.102</b>	<b>BARUFFALDI</b> <b>VDI 50</b>		- TC 77, 110, 800 (MC, MCY, SMCY)	
	<b>SMART</b> QUICK TURN QUICK TURN COMPACT	QT/QTS 100, 150, 200, 250 M/MY/MS/MSY QTC/QTU 100, 150, 200, 250, 300 M/MY/MS/MSY	<b>5.97</b> <b>5.100</b>	<b>TSUGAMI</b>	<b>BMT 65</b>	M06, M08 (D / SD / SY)	from page <b>5.138</b> to page <b>5.144</b>

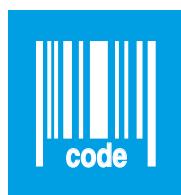


PIÙ SEMPLICE / PIÙ INFO / PIÙ PRODOTTI - EASIER / MORE INFO / MORE PRODUCTS

TROVA IL TUO PRODOTTO IN POCHE CLICK - FIND YOUR PRODUCT IN FEW CLICKS



by category



by code



by description



by configurator

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WINDOWS / IOS



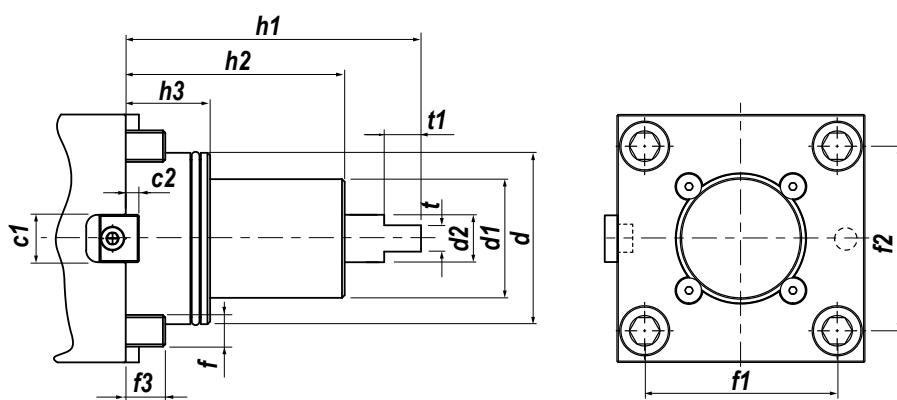
ANDROID / IPHONE



**NEW**

NUOVA GAMMA  
NEW RANGE

**BIGLIA**  
**BMT 40 - BMT55**



	c1	c2	d	d1	d2	f	f1	f2	f3	h1	h2	h3	t	t1
BMT40	12	4	Ø40	Ø35	15	M8	50	50	14	58	43	20	7	10
BMT55	Ø15	5	Ø55	Ø48	-	M10	63	65	12	94,5	53	28	8	-



**DOTAZIONE STANDARD**  
STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH / chiave per bloccaggio ghiera Art.172/CH / ugello refrigerazione Art.183 / viti bloccaggio motorizzato Art.179CH shaft lock wrench / nut lock wrench Art.172/CH / cooling nozzle Art.183 / nozzle lock screws / driven tool locking screws



**CAMBI RAPIDI MODULARI** Vedi pag. 5.24  
MODULAR QUICK CHANGE See page 5.24

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499). Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

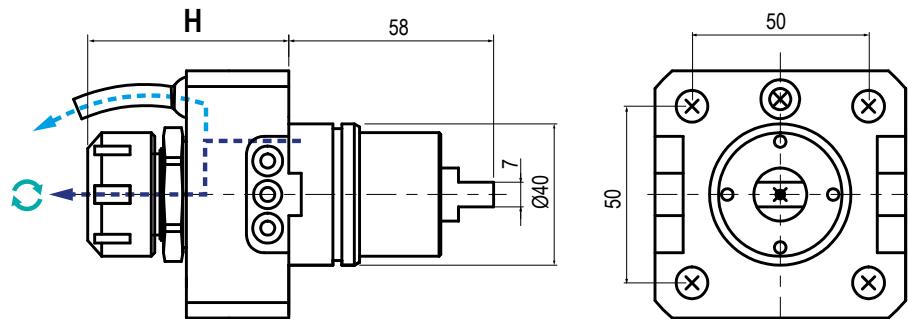
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**B436**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT  
40**

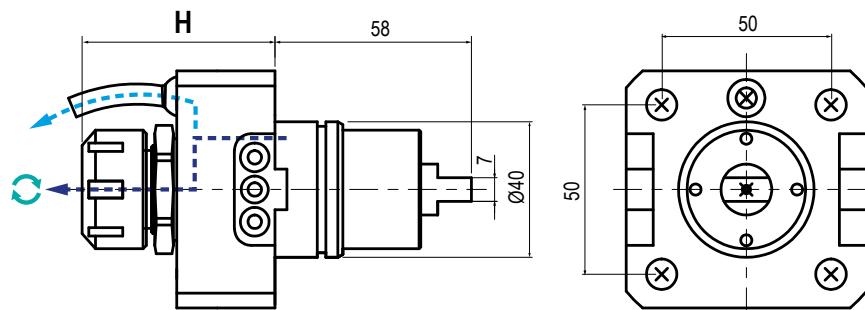
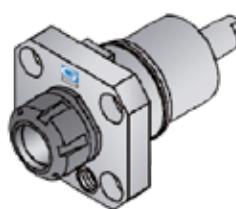
**NEW**



Tipo - Type	Uscita - Output	Refrigerante Coolant	Ratio	Cuscinetti - Ball Bearings			
Code	Biglia Cod.	Output	Int Cool.	H	Nm	Rpm	
99.BG.B40	T134-00128	ER-20 - Ø1÷13	NO	57	-	6000	
99.BG.B41	T134-00149	ER-20 - Ø1÷13	✓	57	-	6000	

**NEW**

**5**

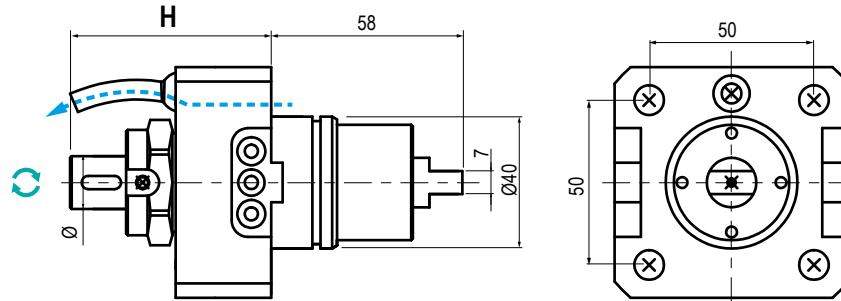


Tipo - Type	Uscita - Output	Refrigerante Coolant	Ratio	Cuscinetti - Ball Bearings			
Code	Biglia Cod.	Output	Int Cool.	H	Nm	Rpm	
99.BG.B42	-	ER-25 - Ø1÷16	NO	57	-	6.000	
99.BG.B43	-	ER-25 - Ø1÷16	✓	57	-	6.000	

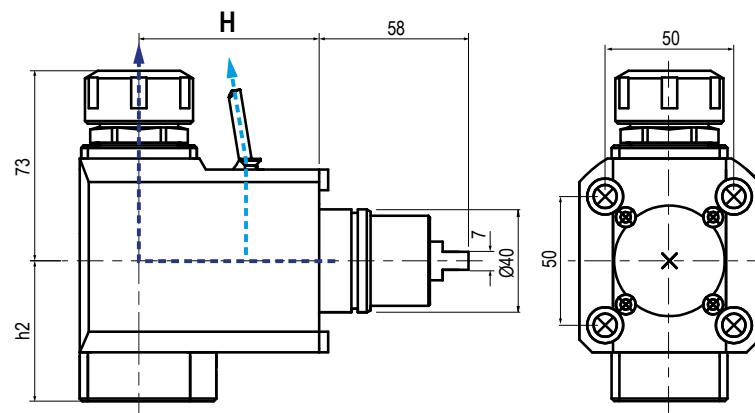
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**B436**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


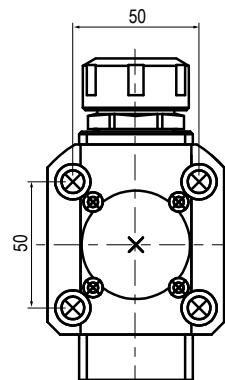
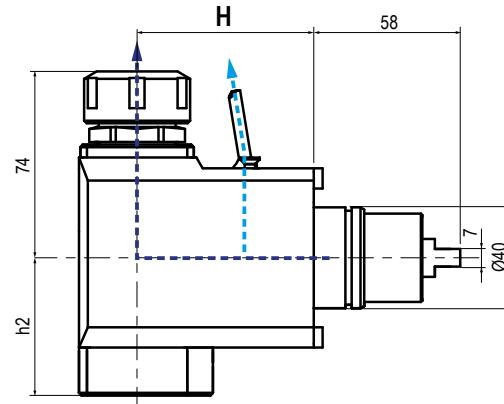
	TIPO - TYPE Assiale - Axial		USCITA - OUTPUT Porta Fresa Shell End Milling Cutter		REFRIGERANTE COOLANT Esterno External		RATIO 1:1		CUSCINETTI - BALL BEARINGS A contatto obliquo Angular contact
<b>Code</b>	<b>Biglia Cod.</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>		<b>Nm</b>	<b>Rpm</b>		
99.BG.B44	-	Ø	NO	61		-	6000		

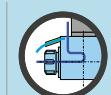
**NEW**


	TIPO - TYPE Radiale - Radial		USCITA - OUTPUT Porta Pinza Collet Chuck		REFRIGERANTE COOLANT 15BAR		RATIO 1:1		CUSCINETTI - BALL BEARINGS A contatto obliqua Angular contact
<b>Code</b>	<b>Biglia Cod.</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>	<b>h2</b>	<b>Nm</b>	<b>Rpm</b>		
99.BG.B45	T134-00145	ER-20 - Ø1÷13	NO	45	42,5	-	6.000		
99.BG.B46	T134-00151	ER-20 - Ø1÷13	NO	70	42,5	-	6.000		
99.BG.B47	T134-00129	ER-20 - Ø1÷13	✓	45	55	-	6.000		
99.BG.B48	T134-00150	ER-20 - Ø1÷13	✓	70	55	-	6.000		

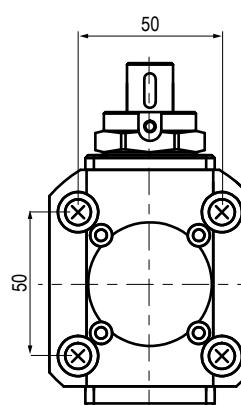
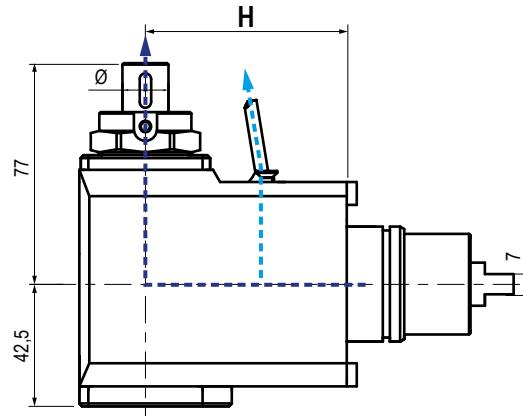
**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**B436**

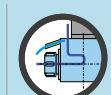
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE 	Radiale - Radial	USCITA - OUTPUT 	Porta Pinza Collet Chuck	REFRIGERANTE COOLANT 	15BAR	RATIO 	1:1	CUSCINETTI - BALL BEARINGS A contatto obliquo Angular contact 
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Code	Output	Int Cool.	H	h2	Nm	Rpm	
99.BG.B49	ER-25 - Ø1÷16	NO	45	42,5	-	6000	
99.BG.B50	ER-25 - Ø1÷16	NO	70	42,5	-	6000	
99.BG.B51	ER-25 - Ø1÷16	✓	45	55	-	6000	
99.BG.B52	ER-25 - Ø1÷16	✓	70	55	-	6000	

**NEW**
**5**


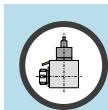
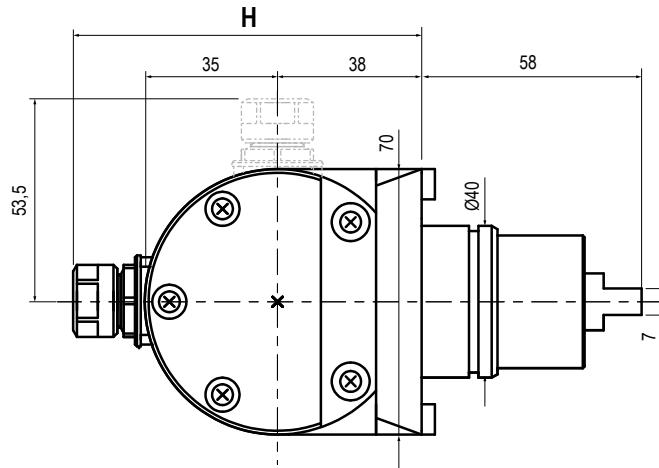
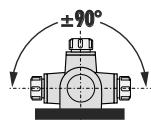
TIPO - TYPE 	Radiale - Radial	USCITA - OUTPUT 	Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT 	15BAR	RATIO 	1:1	CUSCINETTI - BALL BEARINGS A contatto obliquo Angular contact 
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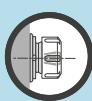
Code	Output	Int Cool.	H	I2	I3	h1	h2	Nm	Rpm	
99.BG.B53	Ø16	NO	45	41,5	27	77	42,5	-	6000	
99.BG.B54	Ø16	✓	70	41,5	27	77	42,5	-	6000	

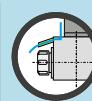
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**B436**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

**TIPO - TYPE**

Orientabile ±90°  
±90° Adjustable

**USCITA - OUTPUT**

Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**

Esterno  
External

**RATIO**

1:1


**CUSCINETTI - BALL BEARINGS**

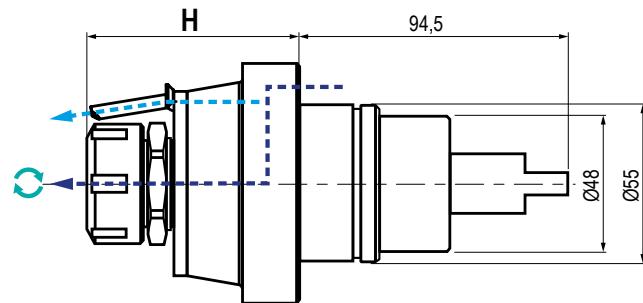
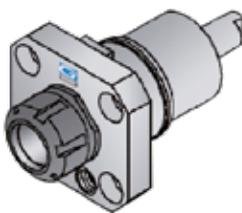
A contatto obliqua  
Angular contact

<b>Code</b>	<b>Biglia Cod.</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>	<b>Nm</b>	<b>Rpm</b>	
99.BG.B55	T134-00130	ER-11	NO	91,5	-	6000	
99.BG.B56	-	ER-16	NO	105	-	6000	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

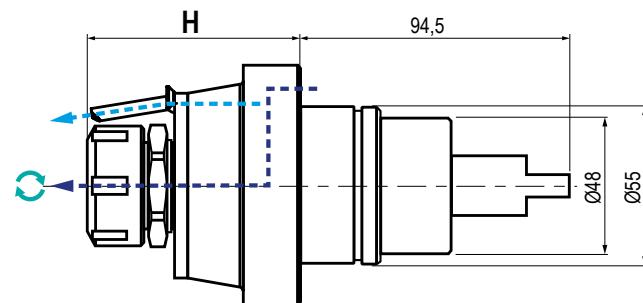
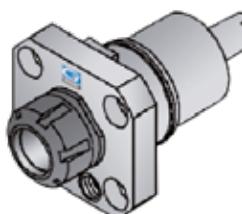
**B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT  
55**


	TIPO - TYPE <b>Assiale - Axial</b>		USCITA - OUTPUT <b>Porta Pinza Collet Chuck</b>		REFRIGERANTE COOLANT <b>20BAR</b>		RATIO <b>1:1</b>		ROTAZIONE - ROTATION <b>Uguale al mandrino</b> Same as machine spindle
--	---------------------------------------	--	--	--	---	--	---------------------	--	--

Code	Output	Int Cool.	H	Nm	Rpm	
99.BG.B01.A	ER-25 - Ø1÷16	NO	63,5	-	4.000	
99.BG.B01.B	ER-25 - Ø1÷16	NO	75	-	4.000	
99.BG.B01.C	ER-25 - Ø1÷16	NO	53,5	-	4.000	
99.BG.B01.D	ER-25 - Ø1÷16	✓	63,5	-	4.000	
99.BG.B01.E	ER-25 - Ø1÷16	✓	75	-	4.000	

**5**


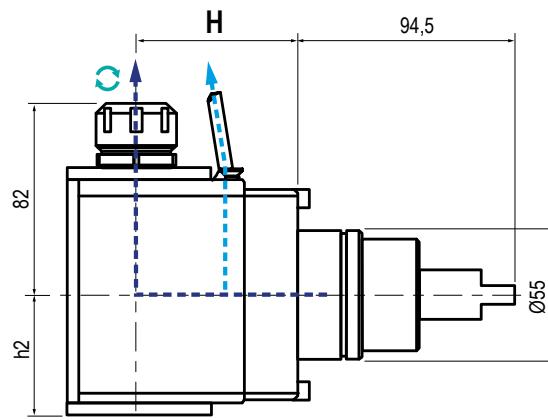
	TIPO - TYPE <b>Assiale - Axial</b>		USCITA - OUTPUT <b>Porta Pinza Collet Chuck</b>		REFRIGERANTE COOLANT <b>20BAR</b>		RATIO <b>1:1</b>		ROTAZIONE - ROTATION <b>Uguale al mandrino</b> Same as machine spindle
--	---------------------------------------	--	--	--	---	--	---------------------	--	--

Code	Output	Int Cool.	H	Nm	Rpm	
99.BG.B02.A	ER-32 - Ø2÷20	NO	83,5	-	4.000	
99.BG.B02.B	ER-32 - Ø2÷20	NO	71,5	-	4.000	
99.BG.B02.C	ER-32 - Ø2÷20	NO	59	-	4.000	
99.BG.B02.D	ER-32 - Ø2÷20	✓	83,5	-	4.000	
99.BG.B02.E	ER-32 - Ø2÷20	✓	71,5	-	4.000	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

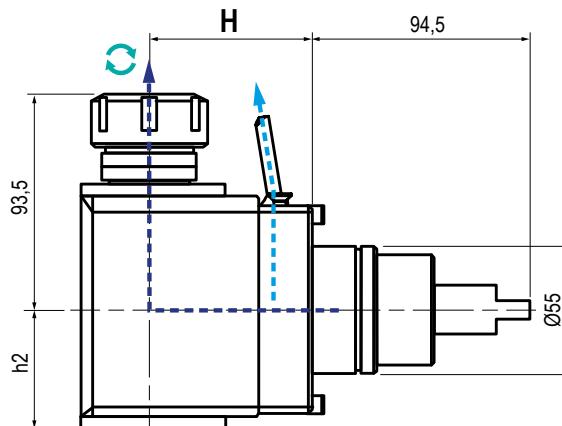
**B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT <b>20BAR</b>	RATIO <b>1:1</b> <b>1:2 / 2:1</b>	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	h2	Nm	Rpm	τ	
99.BG.B04.A	ER-25 - Ø1÷16	NO	70	51	47	4.000	1:1	
99.BG.B04.B	ER-25 - Ø1÷16	✓	70	68	47	4.000	1:1	
99.BG.B04.C	ER-25 - Ø1÷16	NO	100	51	47	4.000	1:1	
99.BG.B04.D	ER-25 - Ø1÷16	✓	100	68	47	4.000	1:1	
99.BG.B04.E	ER-25 - Ø1÷16	NO	70	59,25	-	8.000	1:2	
99.BG.B04.F	ER-25 - Ø1÷16	On Req.	70	51	-	2.000	2:1	



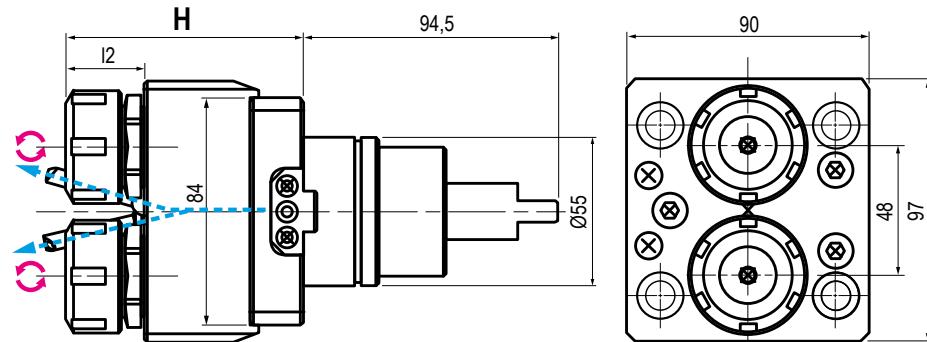
TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT <b>20BAR</b>	RATIO <b>1:1</b>	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
---------------------------------	--	---	---------------------	---

Code	Output	Int Cool.	H	h2	Nm	Rpm	
99.BG.B05.A	ER-32 - Ø2÷20	NO	70	51	47	4.000	
99.BG.B05.B	ER-32 - Ø2÷20	✓	70	68	47	4.000	
99.BG.B05.C	ER-32 - Ø2÷20	NO	100	51	47	4.000	
99.BG.B05.D	ER-32 - Ø2÷20	✓	100	68	47	4.000	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

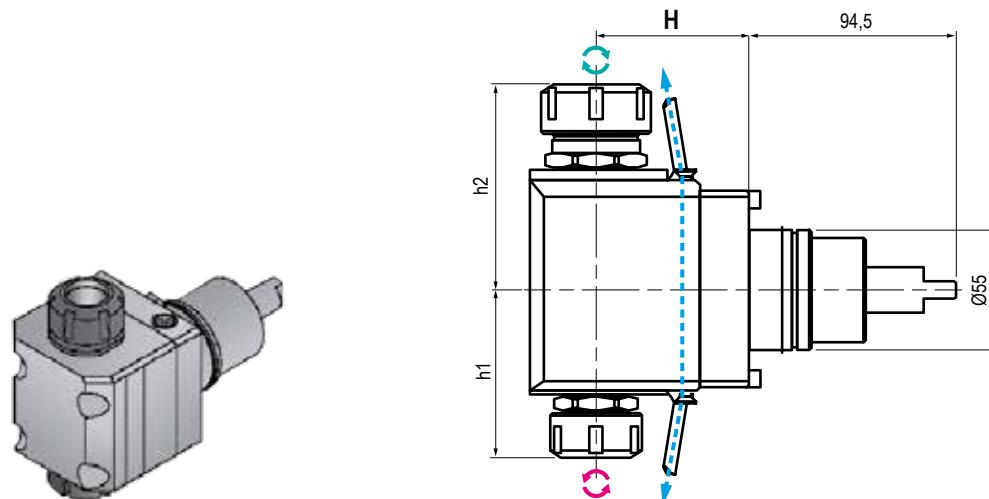
**B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE Assiale Doppio Double Axial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
---	--	--	--------------	--

Code	Output	Int Cool.	H	I2	Nm	Rpm	
99.BG.B06.A	ER-16-16 - Ø1÷10	NO	84	25	-	4.000	
99.BG.B06.B	ER-20-20 - Ø1÷13	NO	87	28	-	4.000	
99.BG.B06.C	ER-25-25 - Ø1÷16	NO	88	29	-	4.000	



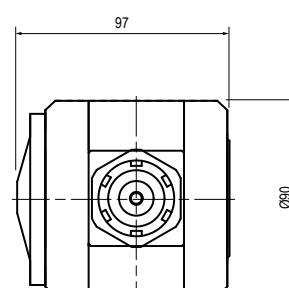
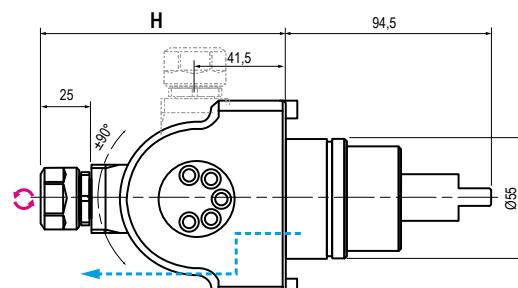
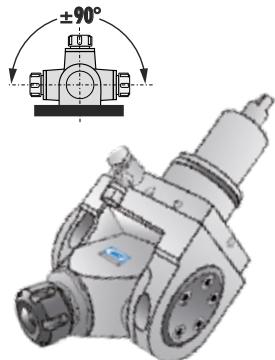
TIPO - TYPE Radiale Doppio Double Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle
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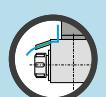
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.BG.B07.A	ER-32 - 25	NO	70	70	85	47	4.000	
99.BG.B07.B	ER-32 - 25	NO	100	70	85	47	4.000	
99.BG.B08.A	ER-25 - 25	NO	70	70	76	47	4.000	
99.BG.B08.B	ER-25 - 25	NO	100	70	76	47	4.000	
99.BG.B09.A	ER-25 - 16	NO	70	68	76	47	4.000	
99.BG.B09.B	ER-25 - 16	NO	100	68	76	47	4.000	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

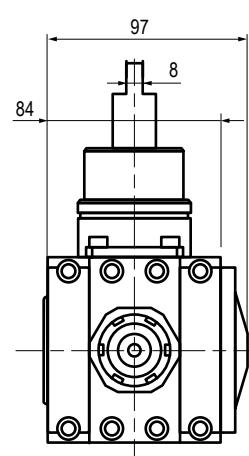
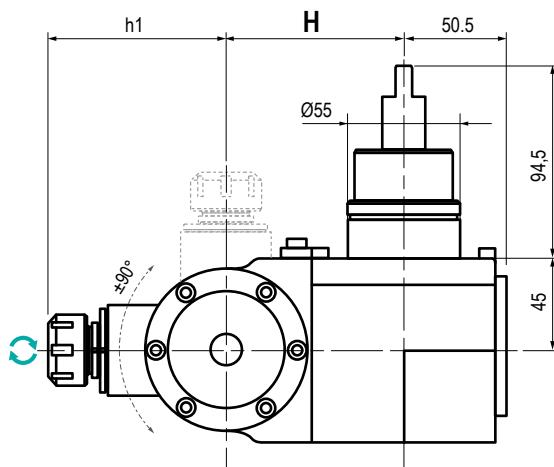

**TIPO - TYPE**  
Orientabile ±90°  
±90° Adjustable

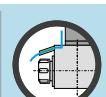
**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
External

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	
99.BG.B10 (0°-90°)	ER-20 - Ø1÷13	NO	140	25	4.000	
99.BG.B11 (0°-180°)	ER-16 - Ø1÷10	NO	111	25	4.000	


**TIPO - TYPE**  
Orientabile ±90°  
±90° Adjustable

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
External

**RATIO**  
**1:1**

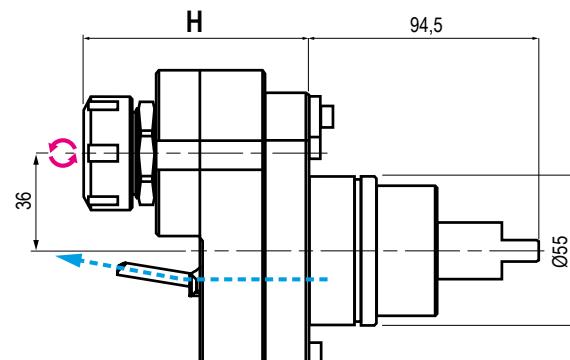
**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	
99.BG.B12	ER-20 - Ø1÷13	NO	87	87,5	-	4.000	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

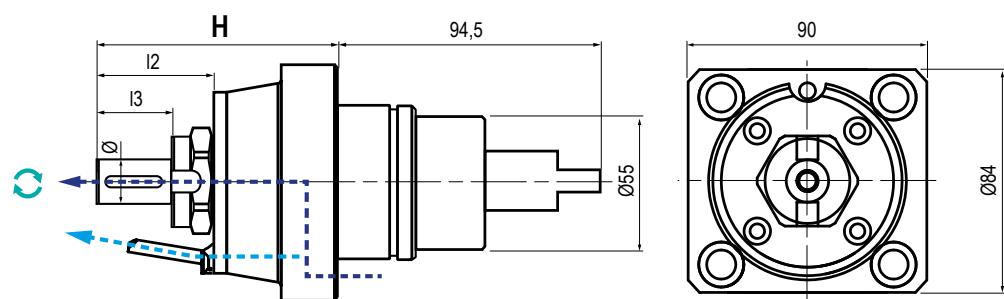
**B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE Disassato Offset Axis	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:2	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	
99.BG.B14	ER-25 - Ø1÷16	NO	92,5	-	8.000	
99.BG.B14.A	ER-16 - Ø1÷10	NO	75	-	8.000	
99.BG.B14.B	ER-16 - Ø1÷10	✓	85	-	8.000	



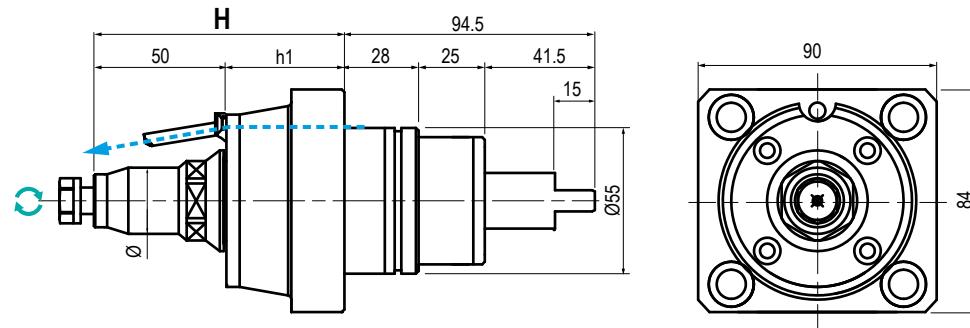
TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT 20BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
--------------------------------	--	----------------------------------	--------------	---

Code	Output	Int Cool.	H	I2	I3	Nm	Rpm	
99.BG.B15.A	Ø16	NO	86,5	42	27	-	4.000	
99.BG.B15.B	Ø22	NO	92	47,5	31	-	4.000	
99.BG.B15.C	Ø27	NO	94	49,5	33	-	4.000	
99.BG.B16.A	Ø16	✓	76,5	32	17	-	4.000	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

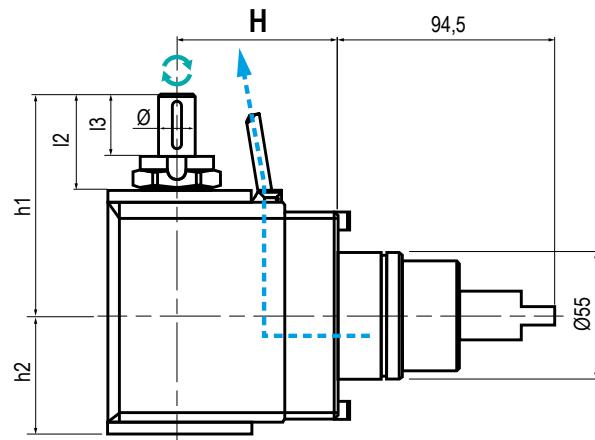
**B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



	TIPO - TYPE Assiale - Axial		USCITA - OUTPUT Porta Fresa Shell End Milling Cutter		REFRIGERANTE COOLANT Esterno External		RATIO <b>1:1</b>		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	h1	Nm	Rpm	
99.BG.B15.D	Ø10	NO	94,5	44,5	-	4.000	
99.BG.B15.E	Ø13	NO	94,5	44,5	-	4.000	
99.BG.B15.F	Ø10	NO	82,5	32,5	-	4.000	
99.BG.B15.G	Ø13	NO	82,5	32,5	-	4.000	



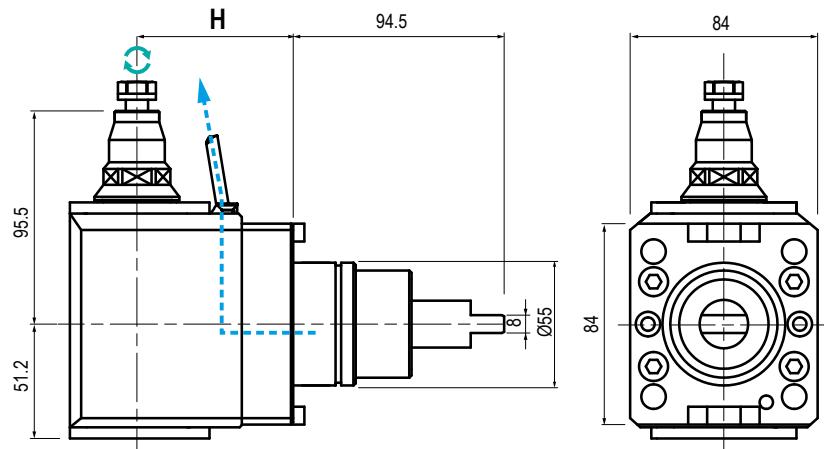
	TIPO - TYPE Radiale Doppio Double Radial		USCITA - OUTPUT Porta Fresa Shell End Milling Cutter		REFRIGERANTE COOLANT Esterno External		RATIO <b>1:1</b>		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	I2	I3	h1	h2	Nm	Rpm	τ	
99.BG.B17.A	Ø16	NO	70	41,5	27	96	51,25	47	4.000	-	
99.BG.B17.B	Ø16	NO	100	41,5	27	96	51,25	47	4.000	-	
99.BG.B17.C	Ø22	NO	70	47,5	31	102	51,25	47	4.000	-	
99.BG.B17.D	Ø22	NO	100	47,5	31	102	51,25	47	4.000	-	
99.BG.B17.E	Ø27	NO	70	49,5	33	104	51,25	47	4.000	-	
99.BG.B17.F	Ø27	NO	100	49,5	33	104	51,25	47	4.000	-	
99.BG.B17.G	Ø16	NO	70	41,5	27	96	51,25	-	2.000	2:1	
99.BG.B17.H	Ø22	NO	70	41,5	31	96	51,25	-	2.000	2:1	
99.BG.B17.I	Ø27	NO	70	41,5	33	96	51,25	-	2.000	2:1	

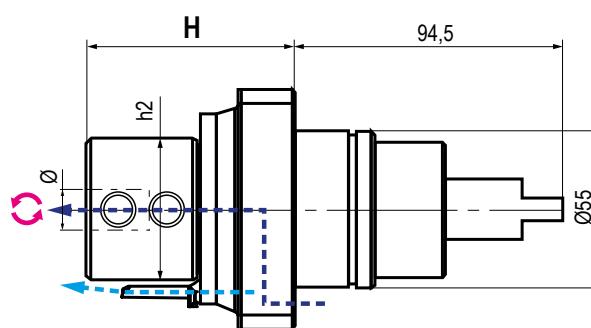
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle	
Code	Output	Int Cool.	H	Nm	Rpm
99.BG.B17.L	Ø10	NO	70	-	4.000
99.BG.B17.M	Ø13	NO	70	-	4.000
99.BG.B17.N	Ø10	NO	100	-	4.000
99.BG.B17.O	Ø13	NO	100	-	4.000



TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Weldon	REFRIGERANTE COOLANT 20BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle		
Code	Output	Int Cool.	H	h2	Nm	Rpm
99.BG.B19.A	Ø 25	✓	73	50	-	4.000
99.BG.B19.B	Ø 20	✓	68	45	-	4.000
99.BG.B19.C	Ø 16	✓	61	41	-	4.000



# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

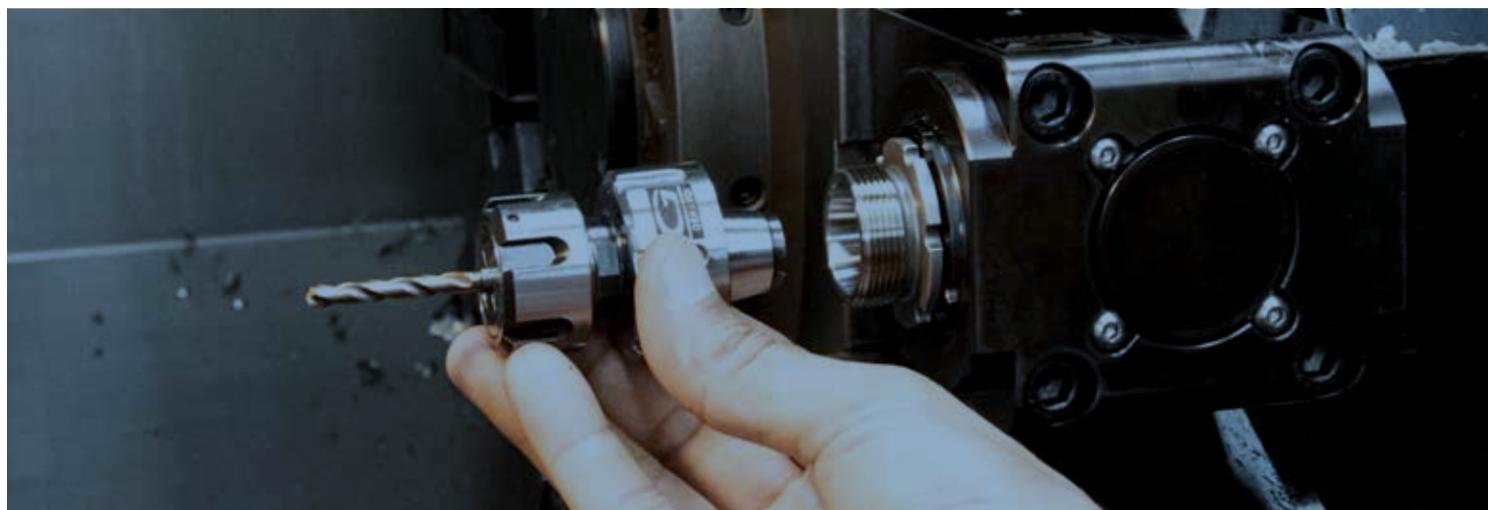
NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

NUOVI MODELLI  
NEW MODELS

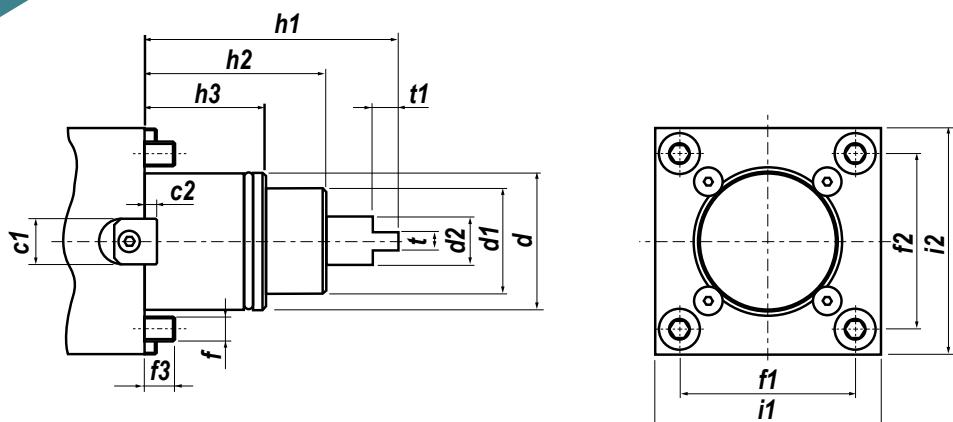
**BMT**  
**45 / 55 / 65 / 75 / 85**

DOOSAN / HARDINGE /  
SAMSUNG / HWACHEON  
HYUNDAI WIA / VICTOR / HAAS /  
GOODWAY / JYOTI

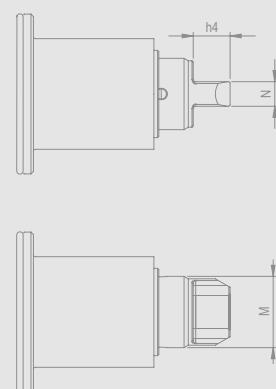


**Uscita - Output  
C. ISO26623**

DISPONIBILI SU RICHIESTA  
AVAILABLE ON REQUEST



**TENONE MAGGIORNATO  
BIGGER TENON**



Type	c1	c2	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1	h4	N	Ø M
BMT45	15	4	45	35	14	M8	58	58	10	84	60	40	75	75	6	8,5	-	-	-
BMT55	15	4	55	40	16	M10	64	64	14	104	75	30	85	85	8	8,5	9,5	8	29
BMT65	18	5	65	45	18	M12	70	73	15	112	83	32	94	94	10	14	15	10	29
BMT75	25	5	75	55	23	M12	90	90	15	110	80	43	112	112	14	15	-	-	-
BMT85	25	5	85	65	33,5	M12	100	100	18	140	100	43	125	125	16	20	-	-	-



**DOTAZIONE STANDARD  
STANDARD EQUIPMENT**

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / viti bloccaggio motorizzato / O-ring  
Art.179CH shaft lock wrench / cooling nozzle Art.183 / nozzle lock screws / driven tool locking screws / O-ring



**CAMBI RAPIDI MODULARI** Vedi pag. 5.46  
MODULAR QUICK CHANGE See page 5.46

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in  
a spindle unit with ER collets (DIN6499) outputs.

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN

HARDINGE

JYOTI

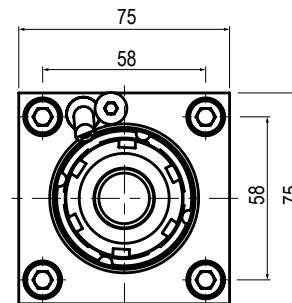
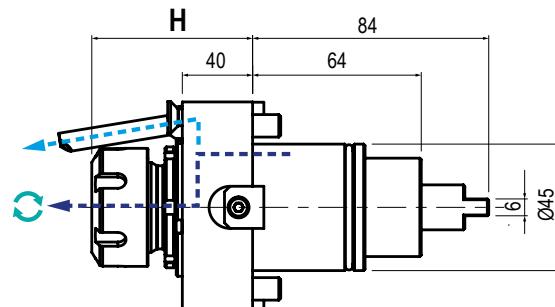
NEXTURN

SAMSUNG

VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

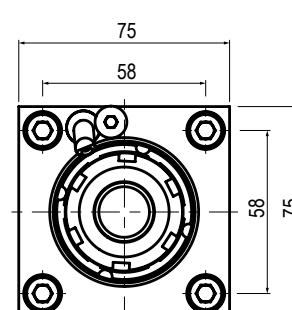
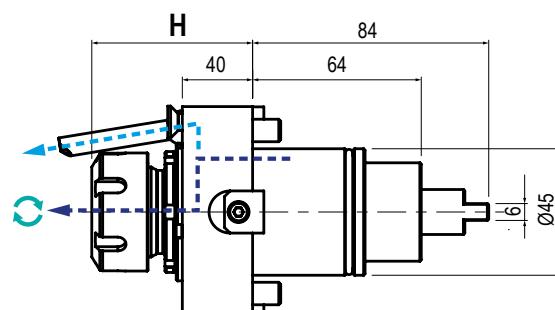
**BMT  
45**



	TIPO - TYPE		USCITA - OUTPUT		REFRIGERANTE COOLANT		RATIO		ROTAZIONE - ROTATION
	Assiale - Axial		Portapinza Collet Chuck		80BAR		1:1		Uguale al mandrino Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.DS.A03	ER-25 - Ø1÷16	NO	53,5÷57,2	35	8.000	6	
99.DS.A04	ER-25 - Ø1÷16	✓	53,5÷57,2	35	8.000	6	

**NEW**

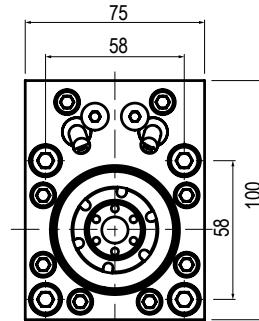
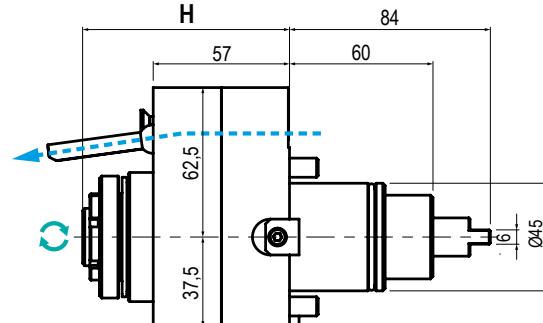


	TIPO - TYPE		USCITA - OUTPUT		REFRIGERANTE COOLANT		RATIO		ROTAZIONE - ROTATION
	Assiale - Axial		Portapinza Collet Chuck		80BAR		1:1		Uguale al mandrino Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.DS.A83	ER-32 - Ø2÷20	NO	76,5÷80,2	35	8.000	6	
99.DS.A84	ER-32 - Ø2÷20	✓	76,5÷80,2	35	8.000	6	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES
**DOOSAN****HARDINGE****JYOTI****NEXTURN****SAMSUNG****VICTOR**

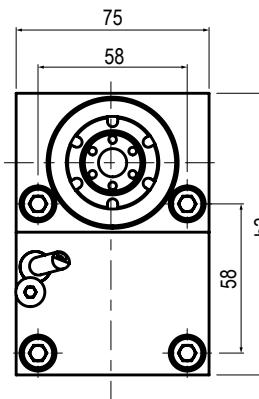
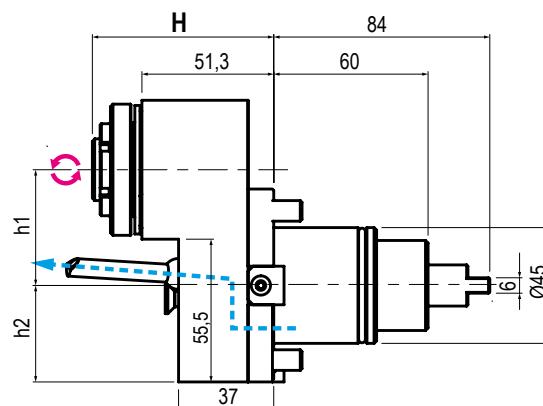
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

TIPO - TYPE  
Assiale - AxialUSCITA - OUTPUT  
Portapinza Collet ChuckREFRIGERANTE  
ESTERNO  
External  
External

1:4

ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.DS.A05	ER-16 EF - Ø1÷10	NO	82,5÷86,5	12	32.000	3	

TIPO - TYPE  
Disassato  
Offset AxisUSCITA - OUTPUT  
Portapinza Collet ChuckREFRIGERANTE  
ESTERNO  
External  
External

1:2

ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A06	ER-16 EF - Ø1÷10	NO	66,8÷70,5	45	37,5	109,5	15	16.000	4	

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

DOOSAN

HARDINGE

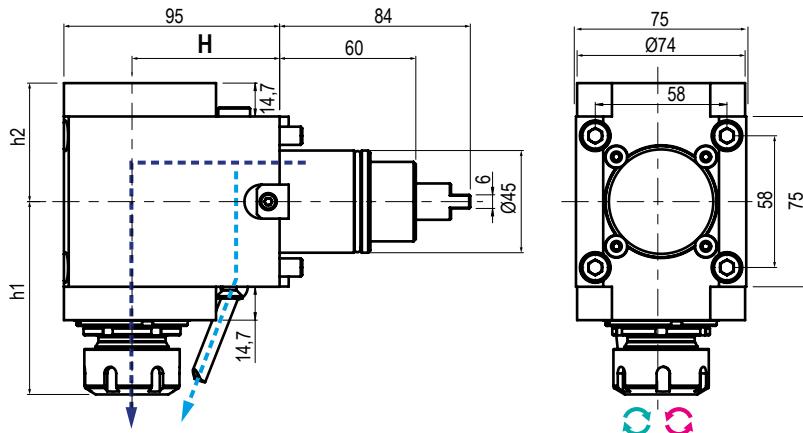
JYOTI

NEXTURN

SAMSUNG

VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

TIPO - TYPE

Radiale  
Radial

USCITA - OUTPUT

Porta Pinza  
Collet ChuckREFRIGERANTE  
COOLANT

80BAR



RATIO

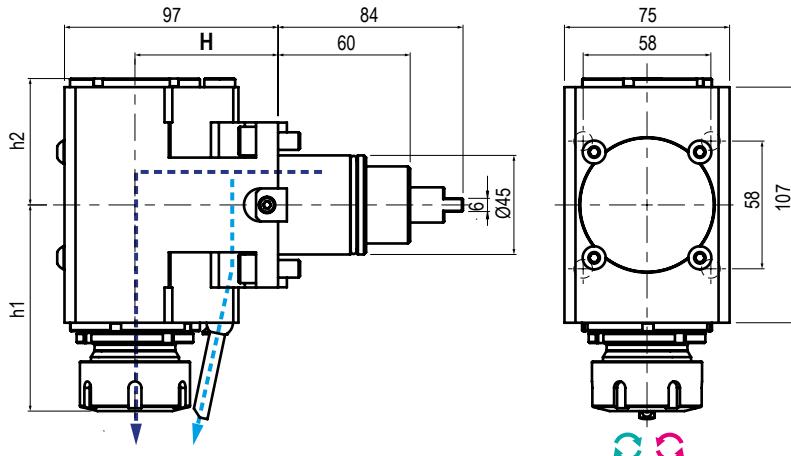
1:1



ROTAZIONE - ROTATION

Uguale / opposto al mandrino  
Same / opposite as m. spindle

Code	*	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A07		ER-25 - Ø1÷16	NO	65	81,2÷84,9	52,2	35	8.000	6	
99.DS.A07C										
99.DS.A08		ER-25 - Ø1÷16	✓	65	81,2÷84,9	52,2	35	8.000	6	
99.DS.A08C										

**NEW**

TIPO - TYPE

Radiale  
Radial

USCITA - OUTPUT

Porta Pinza  
Collet ChuckREFRIGERANTE  
COOLANT

80BAR



RATIO

1:1



ROTAZIONE - ROTATION

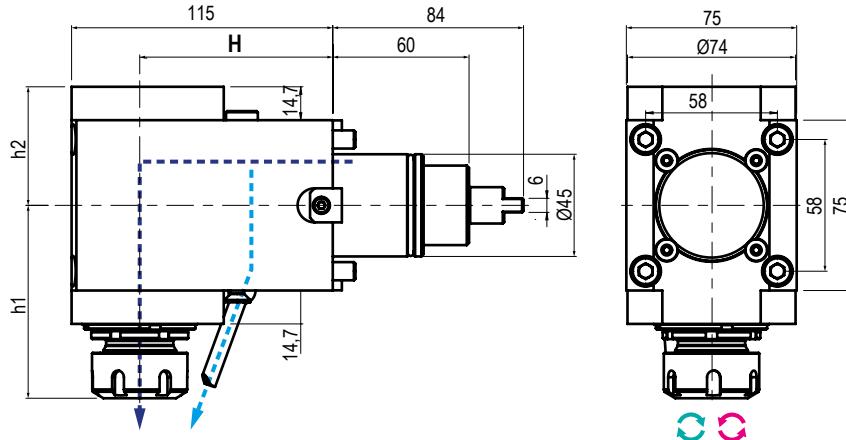
Uguale / opposto al mandrino  
Same / opposite as m. spindle

Code	*	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A97		ER-25 - Ø1÷16	NO	85	81,2÷84,9	52,2	35	8.000	6	
99.DS.A97C										
99.DS.A67		ER-25 - Ø1÷16	✓	85	81,2÷84,9	52,2	35	8.000	6	
99.DS.A67C										

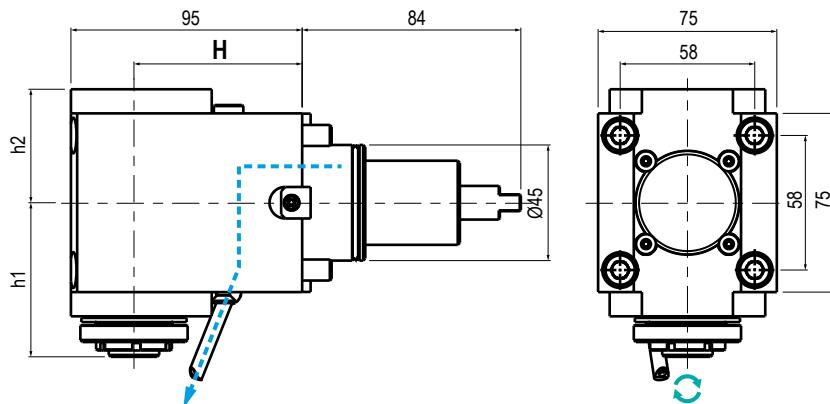
\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**DOOSAN**
**HARDINGE**
**JYOTI**
**NEXTURN**
**SAMSUNG**
**VICTOR**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle					
Code	* Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A87	ER-32 - Ø2÷20	NO	65	89,9÷93,6	57,4	35	8.000	6	
99.DS.A87C									
99.DS.A88		✓	65	89,9÷93,6	63,4	35	8.000	6	
99.DS.A88C	ER-32 - Ø2÷20								



TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:4 1:2	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle					
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A09	ER-16 EF - Ø1÷10	NO	65	66÷69,7	52,5	12	32.000	3	
99.DS.A10	ER-16 EF - Ø1÷10	NO	65	69,6÷73,3	54	15	16.000	4	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN

HARDINGE

JYOTI

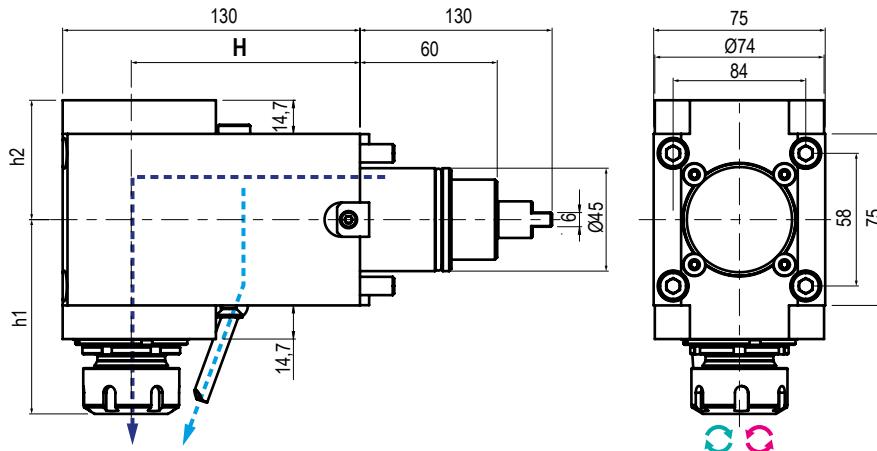
NEXTURN

SAMSUNG

VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

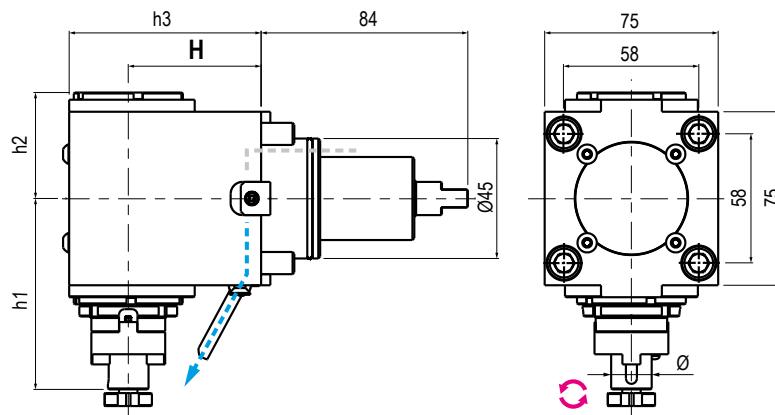
**NEW**



	TIPO - TYPE Radiale Radial		USCITA - OUTPUT Porta Pinza Collet Chuck		REFRIGERANTE COOLANT <b>80BAR</b>		RATIO <b>1:1</b>		ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle
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Code	*	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A98		ER-25 - Ø1÷16	NO	100	81,2÷84,9	52,2	35	8.000	6	
99.DS.A98C										
99.DS.A68		ER-25 - Ø1÷16	✓	100	81,2÷84,9	52,2	35	8.000	6	
99.DS.A68C										

**NEW**



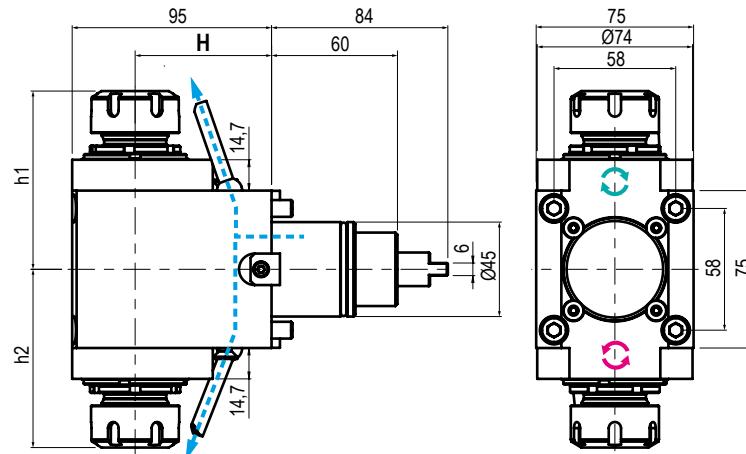
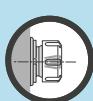
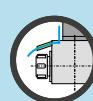
	TIPO - TYPE Radiale Radial		USCITA - OUTPUT Porta Fresa Shell End Milling Cutter		REFRIGERANTE COOLANT Esterno External		RATIO <b>1:1</b>		ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
--	----------------------------------	--	--	--	--	--	---------------------	--	--

Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A99	Ø16	NO	65	95	52,2	95	35	8.000	6	
99.DS.A100	Ø16	NO	85	95	52,2	115	35	8.000	6	
99.DS.A101	Ø16	NO	100	95	52,2	130	35	8.000	6	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle    Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**DOOSAN**
**HARDINGE**
**JYOTI**
**NEXTURN**
**SAMSUNG**
**VICTOR**

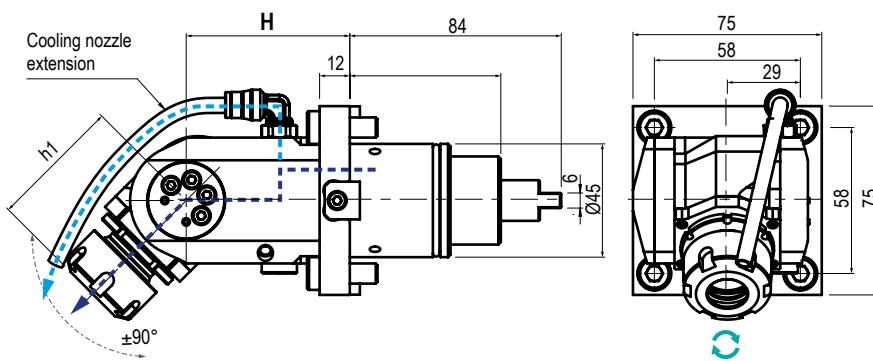
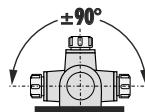
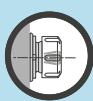
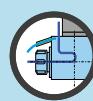
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
**Doppio Radiale**  
**Double Radial**

**USCITA - OUTPUT**  
**Portapinza**  
**Collet Chuck**

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
**External**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Uguale ed opposto al mandrino**  
**Same and opposite as m. spindle**

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A13	ER-25-25 - Ø1÷16	NO	65	81,2÷84,9	81,2÷84,9	35	8.000	6	
99.DS.A102	ER-32-32 - Ø2÷20	NO	65	89,9÷93,6	89,9÷93,6	35	8.000	6	
99.DS.A103	ER-25-25 - Ø1÷16	NO	85	81,2÷84,9	81,2÷84,9	35	8.000	6	
99.DS.A104	ER-25-25 - Ø1÷16	NO	100	81,2÷84,9	81,2÷84,9	35	8.000	6	


**TIPO - TYPE**  
**Orientabile ±90°**  
**±90° Adjustable**

**USCITA - OUTPUT**  
**Portapinza**  
**Collet Chuck**

**REFRIGERANTE**  
**COOLANT**  
**80BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Uguale al mandrino**  
**Same as machine spindle**

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.DS.A16	ER-20 - Ø1÷13	NO	65	48,8÷52,5	15	8.000	3	
99.DS.A17	ER-20 - Ø1÷13	✓	65	48,8÷52,5	15	8.000	3	

\* **N.B.:** **Rotazione uguale al mandrino** - Rotation same as machine spindle

 **Rotazione opposta al mandrino** - Rotation opposite as machine spindle

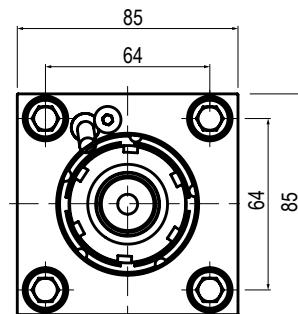
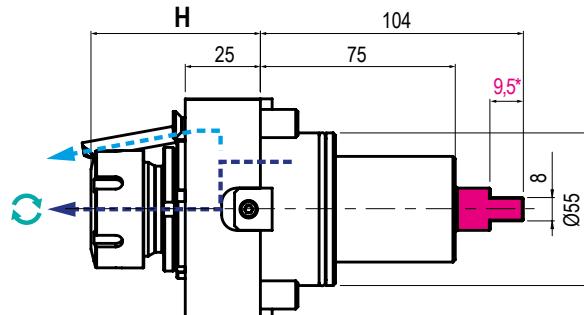
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN HARDINGE GOODWAY HWACHEON HYUNDAI WIA JYOTI SAMSUNG VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT  
55**

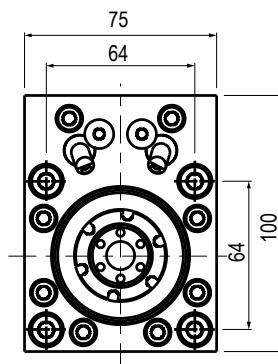
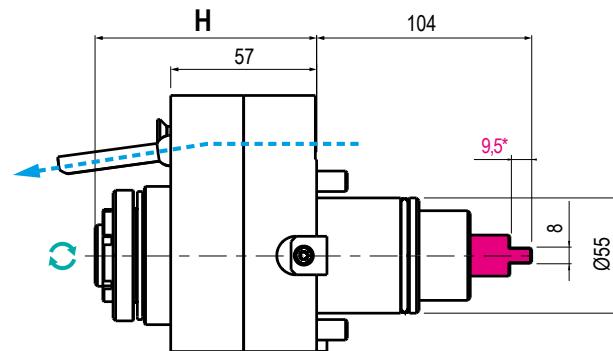
**NEW**



\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A01T / Oversized tenon available - add "T" right after the code: 99.DS.A01T

TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle		
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.DS.A01	ER-25 - Ø1÷16	NO	53,5÷57,2	40	8.000	8
99.DS.A02	ER-25 - Ø1÷16	✓	53,5÷57,2	40	8.000	8

**NEW**



\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A18T / Oversized tenon available - add "T" right after the code: 99.DS.A18T

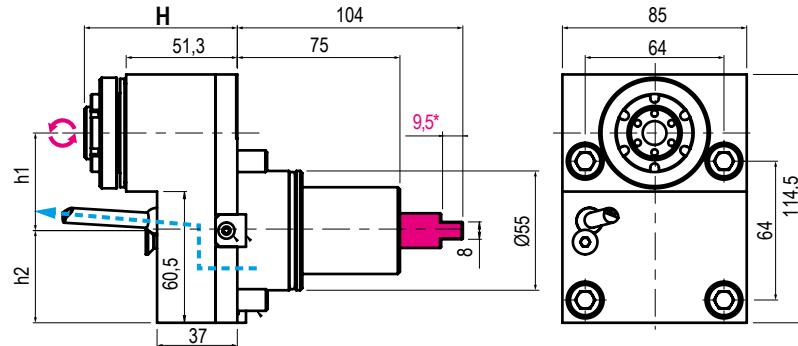
TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:4	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle		
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.DS.A18	ER-16 EF - Ø1÷10	NO	82,5÷86,5	12	32.000	3

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle

Rotazione opposta al mandrino - Rotation opposite as machine spindle

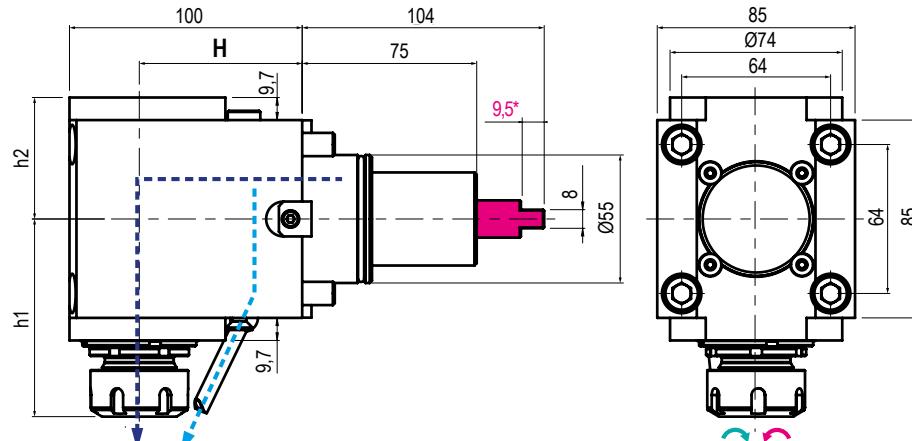
**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**DOOSAN** **HARDINGE** **GOODWAY** **HWACHEON** **HYUNDAI WIA** **JYOTI** **SAMSUNG** **VICTOR**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A19T / Oversized tenon available - add "T" right after the code: 99.DS.A19T

TIPO - TYPE Disassato Offset Axis	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:2	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle						
Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A19	ER-16 EF - Ø1÷10	NO	66,8÷70,5	45	42,5	114,5	15	16.000	4	

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A11T / Oversized tenon available - add "T" right after the code: 99.DS.A11T

TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle						
Code	*	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A11		ER-25 - Ø1÷16	NO	70	81,2÷84,9	52,2	40	8.000	8	
99.DS.A11C										
99.DS.A12		ER-25 - Ø1÷16	✓	70	81,2÷84,9	52,2	40	8.000	8	
99.DS.A12C										

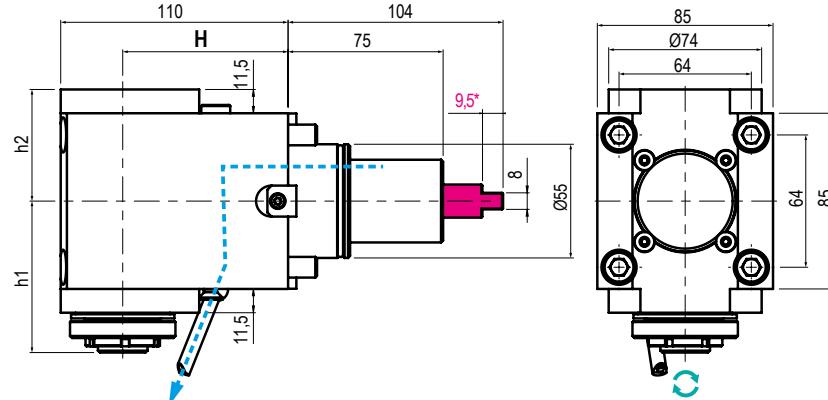
\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle

Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

DOOSAN HARDINGE GOODWAY HWACHEON HYUNDAI WIA JYOTI SAMSUNG VICTOR

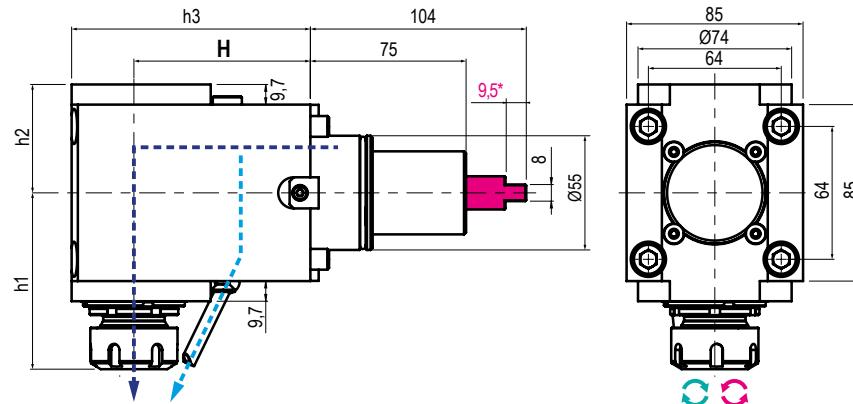
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A20T / Oversized tenon available - add "T" right after the code: 99.DS.A20T

TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT Esterno External	RATIO  	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A20	ER-16 EF - Ø1÷10	NO	70	69,6÷73,3	54	4	24.000	3	
99.DS.A21	ER-16 EF - Ø1÷10	NO	70	69,6÷73,3	54	15	16.000	4	

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A69T / Oversized tenon available - add "T" right after the code: 99.DS.A69T

TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT 80BAR	RATIO 	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle
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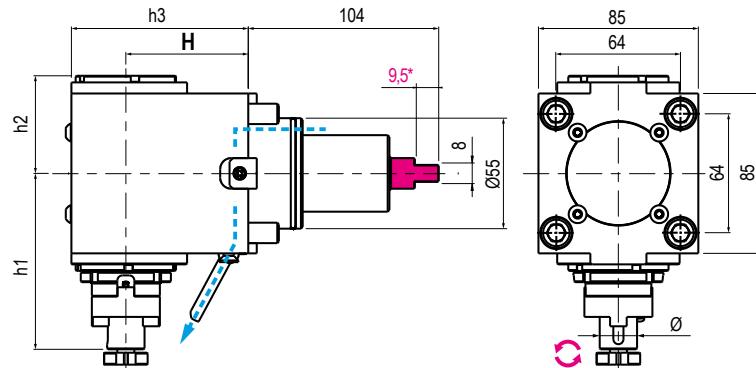
Code	* Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A69	ER-25 - Ø1÷16	NO	60	81,2÷84,9	52,2	90	40	8.000	8	
99.DS.A69C	ER-25 - Ø1÷16	✓	60	81,2÷84,9	52,2	90	40	8.000	8	
99.DS.A70	ER-25 - Ø1÷16	NO	85	81,2÷84,9	52,2	115	40	8.000	8	
99.DS.A70C	ER-25 - Ø1÷16	✓	85	81,2÷84,9	52,2	115	40	8.000	8	
99.DS.A71	ER-25 - Ø1÷16	NO	100	81,2÷84,9	52,2	130	40	8.000	8	
99.DS.A71C	ER-25 - Ø1÷16	✓	100	81,2÷84,9	52,2	130	40	8.000	8	
99.DS.A72	ER-25 - Ø1÷16	NO	85	81,2÷84,9	52,2	115	40	8.000	8	
99.DS.A72C	ER-25 - Ø1÷16	✓	85	81,2÷84,9	52,2	115	40	8.000	8	
99.DS.A81	ER-25 - Ø1÷16	NO	100	81,2÷84,9	52,2	130	40	8.000	8	
99.DS.A81C	ER-25 - Ø1÷16	✓	100	81,2÷84,9	52,2	130	40	8.000	8	
99.DS.A82	ER-25 - Ø1÷16	NO	100	81,2÷84,9	52,2	130	40	8.000	8	
99.DS.A82C	ER-25 - Ø1÷16	✓	100	81,2÷84,9	52,2	130	40	8.000	8	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

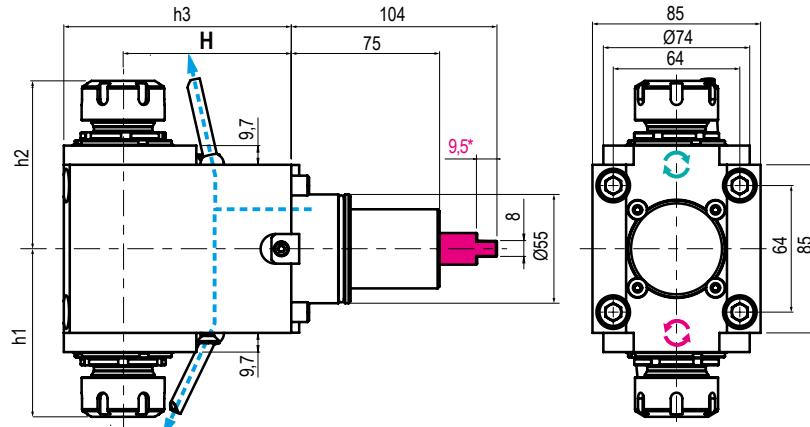
DOOSAN HARDINGE GOODWAY HWACHEON HYUNDAI WIA JYOTI SAMSUNG VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A105T / Oversized tenon available - add "T" right after the code: 99.DS.A105T

TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle						
Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A105	Ø16	NO	60	95	52,2	90	40	8.000	8	
99.DS.A106	Ø16	NO	70	95	52,2	100	40	8.000	8	
99.DS.A107	Ø16	NO	85	95	52,2	115	40	8.000	8	
99.DS.A108	Ø16	NO	100	95	52,2	130	40	8.000	8	

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A94T / Oversized tenon available - add "T" right after the code: 99.DS.A94T

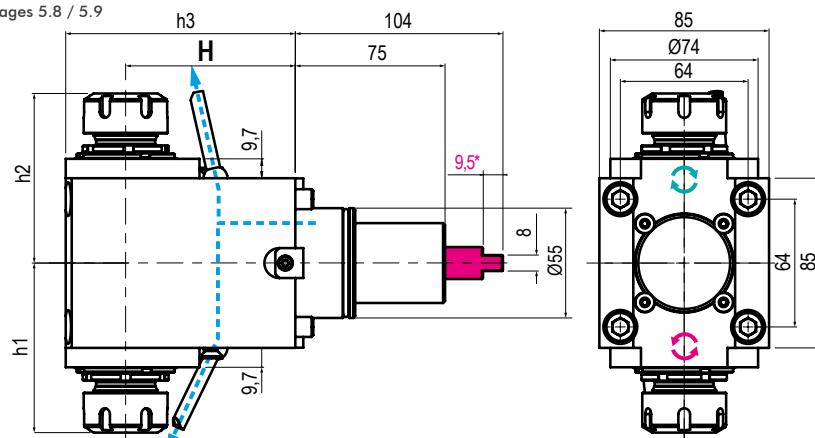
TIPO - TYPE Doppio Radiale Double Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle						
Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A94	ER-25-25 - Ø1÷16	NO	60	81,2÷84,9	81,2÷84,9	90	40	8.000	8	
99.DS.A95	ER-25-25 - Ø1÷16	NO	85	81,2÷84,9	81,2÷84,9	115	40	8.000	8	
99.DS.A96	ER-25-25 - Ø1÷16	NO	100	81,2÷84,9	81,2÷84,9	130	40	8.000	8	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

DOOSAN HARDINGE GOODWAY HWACHEON HYUNDAI WIA JYOTI SAMSUNG VICTOR

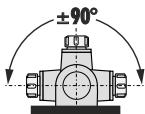
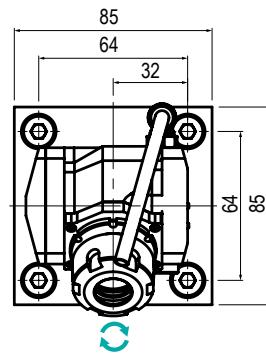
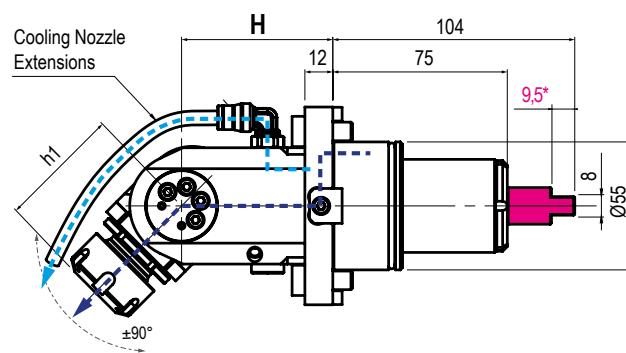
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A24T / Oversized tenon available - add "T" right after the code: 99.DS.A24T

TIPO - TYPE Doppio Radiale Double Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle					
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A24	ER-25-25 - Ø1÷16	NO	70	84,9	84,9	40	8.000	8	

5


**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A23T / Oversized tenon available - add "T" right after the code: 99.DS.A23T

TIPO - TYPE Orientabile ±90° ±90° Adjustable	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle				
Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.DS.A23	ER-20 - Ø1÷13	NO	65	48,8÷52,5	15	8.000	3	
99.DS.A66	ER-20 - Ø1÷13	✓	65	48,8÷52,5	15	8.000	3	

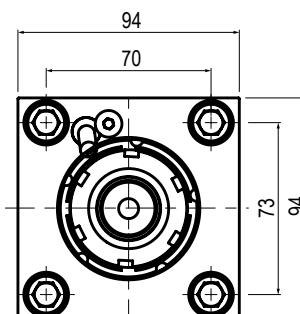
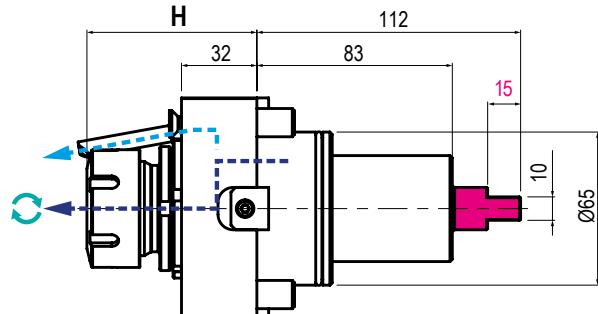
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN GOODWAY HAAS HARDINGE HWACHEON HYUNDAI WIA SAMSUNG VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

**BMT  
65**

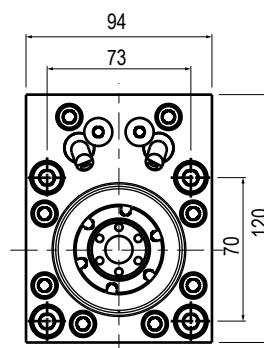
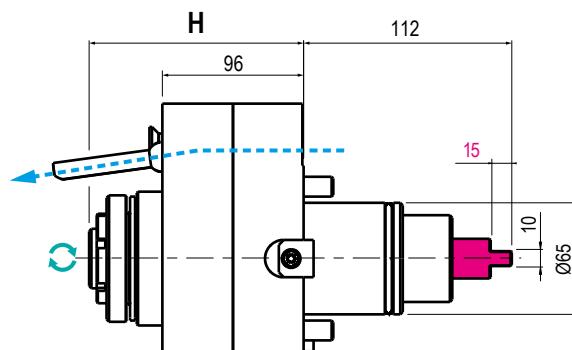


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A41T / Oversized tenon available - add "T" right after the code: 99.DS.A41T

TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle			
Code	Output	Int Cool	H	Nm	Rpm	kw	
99.DS.A41	ER-32 - Ø2÷20	NO	68,5÷72,2	70	6.000	10	
99.DS.A42	ER-32 - Ø2÷20	✓	68,5÷72,2	70	6.000	10	

**NEW**

**5**



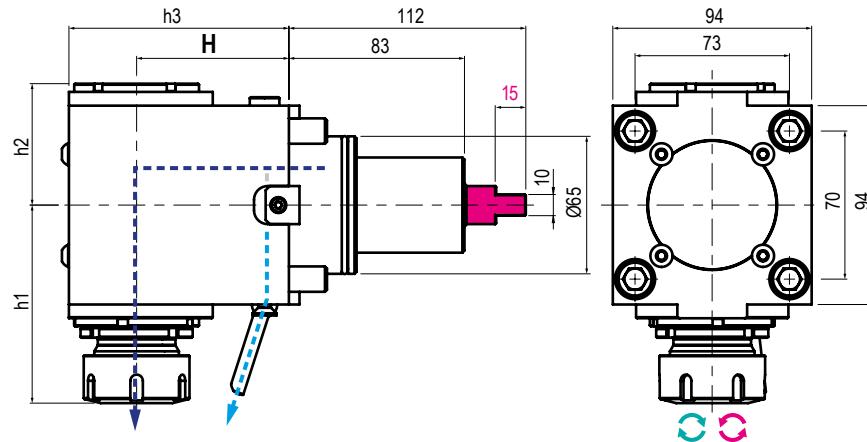
\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A27T / Oversized tenon available - add "T" right after the code: 99.DS.A27T

TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:4	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle			
Code	Output	Int Cool	H	Nm	Rpm	kw	
99.DS.A27	ER-20 EF - Ø1÷13	NO	122,5÷126,2	20	24.000	8	

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

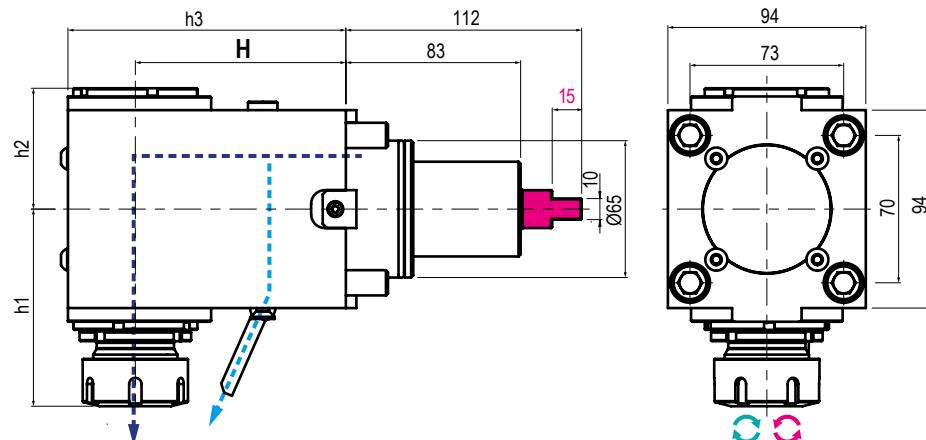
DOOSAN GOODWAY HAAS HARDINGE HWACHEON HYUNDAI WIA SAMSUNG VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A51T / Oversized tenon available - add "T" right after the code: 99.DS.A51T

TIPO - TYPE	USCITA - OUTPUT	REFRIGERANTE COOLANT	RATIO	ROTAZIONE - ROTATION						
Code	* Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A51	ER-32 - Ø2÷20	NO	72	89,9÷93,6	Max 57,4	104	70	6.000	10	
99.DS.A51C										
99.DS.A52	ER-32 - Ø2÷20	✓	72	89,9÷93,6	Max 57,4	104	70	6.000	10	
99.DS.A52C										

**NEW**


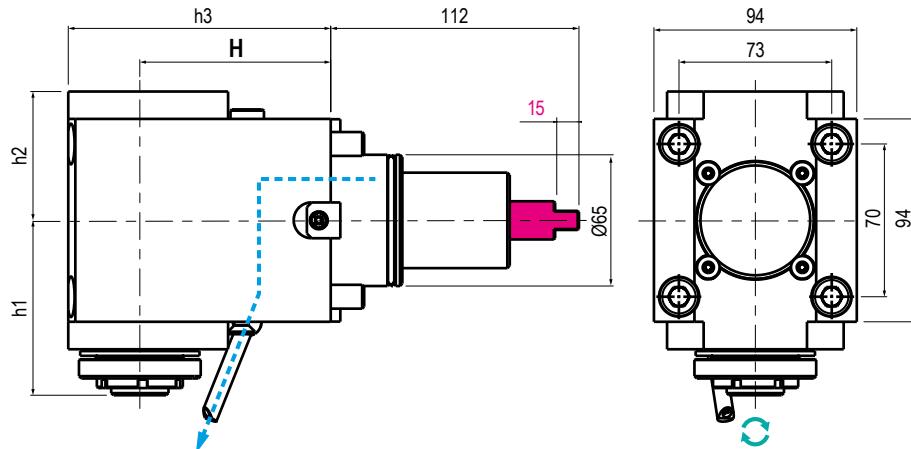
\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A73T / Oversized tenon available - add "T" right after the code: 99.DS.A73T

TIPO - TYPE	USCITA - OUTPUT	REFRIGERANTE COOLANT	RATIO	ROTAZIONE - ROTATION						
Code	* Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A73	ER-32 - Ø2÷20	NO	100	89,9÷93,6	57,4	132	70	6.000	10	
99.DS.A73C										
99.DS.A74	ER-32 - Ø2÷20	✓	100	89,9÷93,6	63,4	132	70	6.000	10	
99.DS.A74C										

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

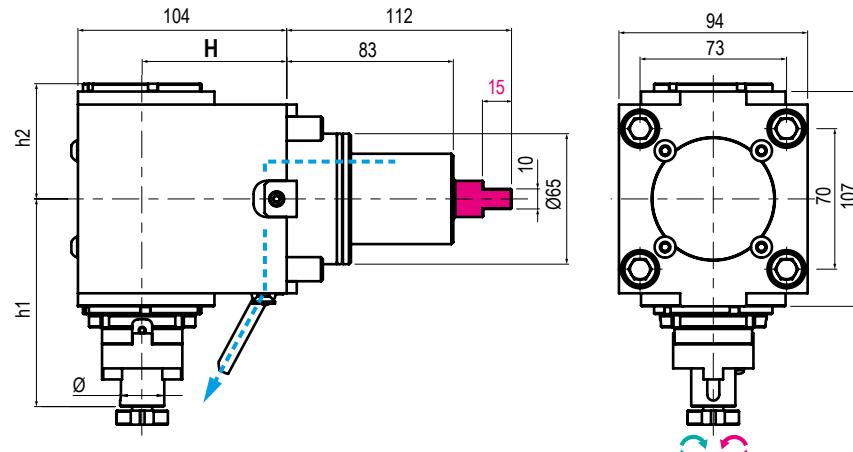
**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**DOOSAN** **GOODWAY** **HAAS** **HARDINGE** **HWACHEON** **HYUNDAI WIA** **SAMSUNG** **VICTOR**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A29T / Oversized tenon available - add "T" right after the code: 99.DS.A29T

TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:2 1:4	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle						
Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A29	ER-20 EF- Ø1÷13	NO	72	89,9÷93,6	57,4	104	35	12.000	8	
99.DS.A30	ER-20 EF- Ø1÷13	NO	72	89,9÷93,6	57,4	112	20	24.000	8	

**NEW**


\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A62T / Oversized tenon available - add "T" right after the code: 99.DS.A62T

TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle					
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A62	Ø22	NO	72	103,5	57,4	70	6.000	10	
99.DS.A111	Ø22	NO	100	103,5	57,4	70	6.000	10	

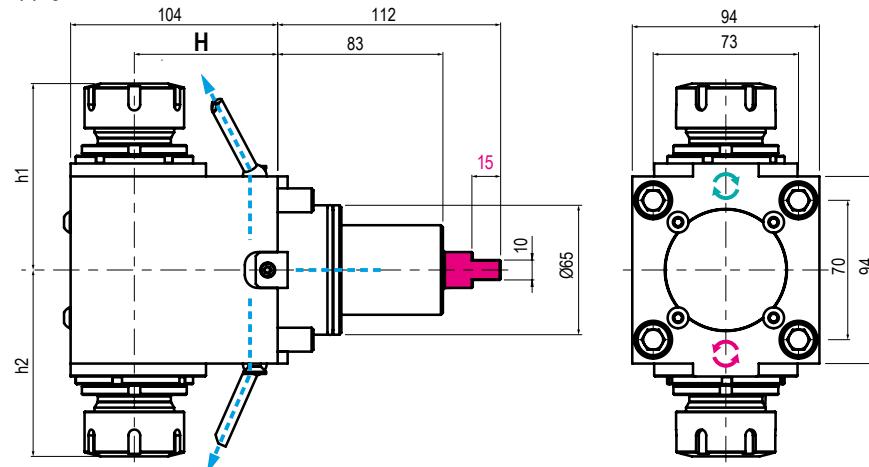
\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      \* Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN GOODWAY HAAS HARDINGE HWACHEON HYUNDAI WIA SAMSUNG VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**



\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A31T / Oversized tenon available - add "T" right after the code: 99.DS.A31T

TIPO - TYPE Doppio Radiale Double Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle					
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A31	ER-32-32 - Ø2÷20	NO	72	93÷93,6	Max 93,6	70	6.000	10	
99.DS.A78	ER-32-32 - Ø2÷20	NO	100	93÷93,6	93÷93,6	70	6.000	10	



\* Disponibile versione con tenone maggiorato inserendo T dopo il codice 99.DS.A64T / Oversized tenon available - add "T" right after the code: 99.DS.A64T

TIPO - TYPE Orientabile ±90° ±90° Adjustable	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle					
Code	Output	Int Cool.	H	h1	Nm	Rpm	kw		
99.DS.A64	ER-25 - Ø1÷16	NO	75	63,5÷67,2	25	6.000	4		
99.DS.A65	ER-25 - Ø1÷16	✓	75	63,5÷67,2	25	6.000	4		

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle

Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN

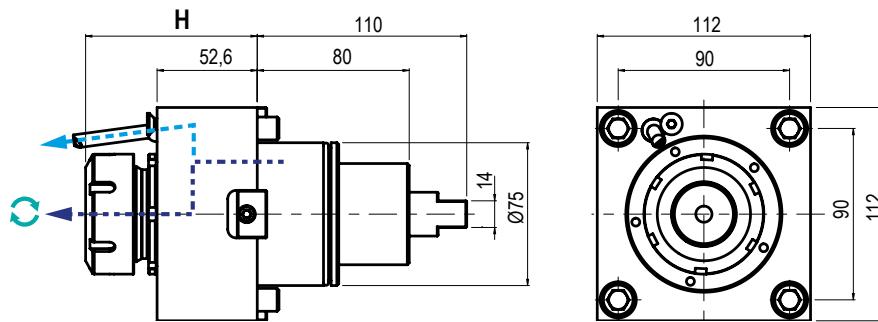
HWACHEON

HYUNDAI WIA

SAMSUNG

VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT**  
**75**


TIPO - TYPE

Assiale - Axial



USCITA - OUTPUT

Portapinza  
Collet Chuck

REFRIGERANTE

COOLANT  
80BAR

RATIO

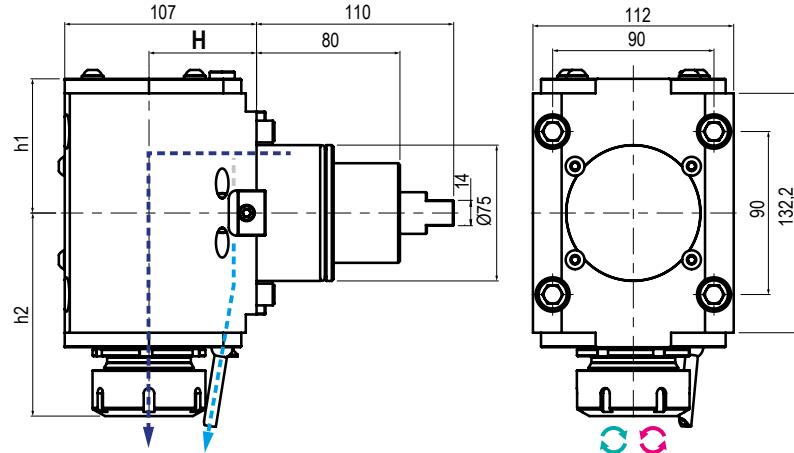
1:1



ROTAZIONE - ROTATION

Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.DS.A34	ER-40 - Ø3-30	NO	86,5÷90,2	100	6.000	12	
99.DS.A35	ER-40 - Ø3-30	✓	86,5÷90,2	100	6.000	12	



TIPO - TYPE

Radiale - Radial



USCITA - OUTPUT

Portapinza  
Collet Chuck

REFRIGERANTE

COOLANT  
80BAR

RATIO

1:1



ROTAZIONE - ROTATION

Uguale / opposto al mandrino  
Same / opposite as m. spindle

Code	*	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A38		ER-40 - Ø3-30	NO	60	74,1	108,3÷112,1	100	6.000	12	
99.DS.A38C		ER-40 - Ø3-30	✓	60	74,1	108,3÷112,1	100	6.000	12	
99.DS.A39		ER-40 - Ø3-30	✓	60	74,1	108,3÷112,1	100	6.000	12	
99.DS.A39C		ER-40 - Ø3-30	✓	60	74,1	108,3÷112,1	100	6.000	12	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN

HWACHEON

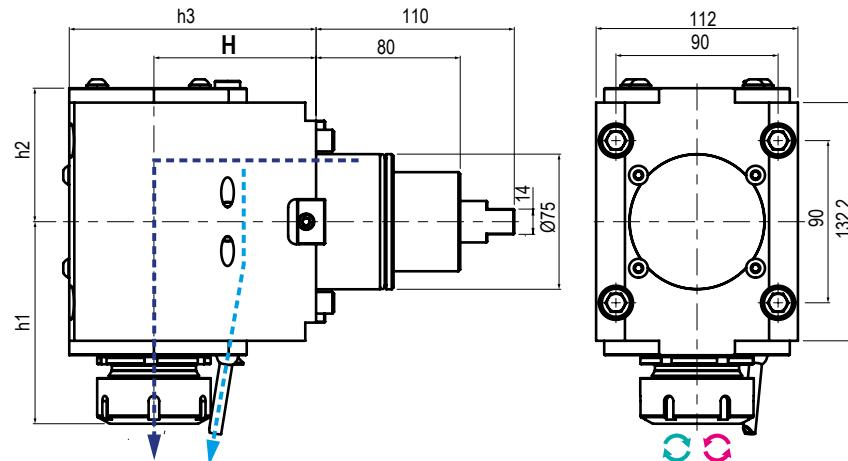
HYUNDAI WIA

SAMSUNG

VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

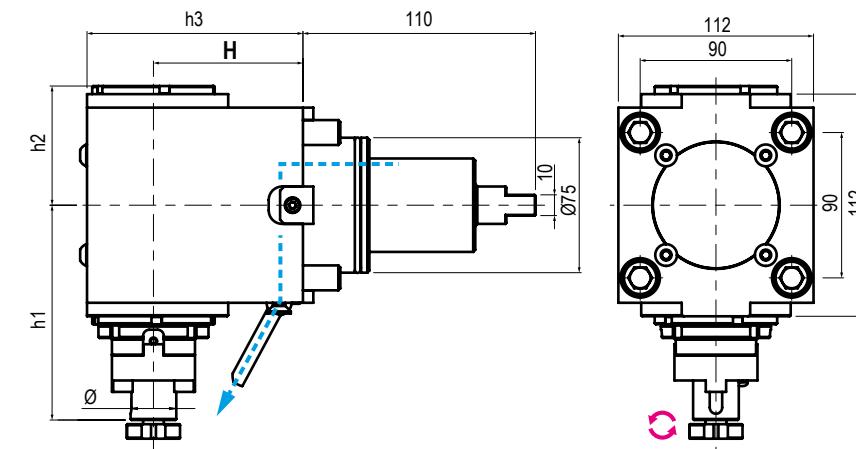
**NEW**



TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT 80BAR	RATIO 	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle
99.DS.A75	ER-40 - Ø3-30	NO	90	108,3÷112,1
99.DS.A75C	ER-40 - Ø3-30	✓	90	108,3÷112,1
99.DS.A76	ER-40 - Ø3-30	✓	90	108,3÷112,1
99.DS.A76C	ER-40 - Ø3-30	NO	110	108,3÷112,1
99.DS.A85	ER-40 - Ø3-30	NO	110	108,3÷112,1
99.DS.A85C	ER-40 - Ø3-30	✓	110	108,3÷112,1
99.DS.A86	ER-40 - Ø3-30	✓	110	108,3÷112,1
99.DS.A86C	ER-40 - Ø3-30	✓	110	108,3÷112,1

Code	*	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A75		ER-40 - Ø3-30	NO	90	108,3÷112,1	74,1	137	100	6.000	12	
99.DS.A75C		ER-40 - Ø3-30	✓	90	108,3÷112,1	74,1	137	100	6.000	12	
99.DS.A76		ER-40 - Ø3-30	✓	90	108,3÷112,1	74,1	137	100	6.000	12	
99.DS.A76C		ER-40 - Ø3-30	NO	110	108,3÷112,1	74,1	157	100	6.000	12	
99.DS.A85		ER-40 - Ø3-30	NO	110	108,3÷112,1	74,1	157	100	6.000	12	
99.DS.A85C		ER-40 - Ø3-30	✓	110	108,3÷112,1	74,1	157	100	6.000	12	
99.DS.A86		ER-40 - Ø3-30	✓	110	108,3÷112,1	74,1	157	100	6.000	12	
99.DS.A86C		ER-40 - Ø3-30	✓	110	108,3÷112,1	74,1	157	100	6.000	12	

**NEW**



TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT Esterno External	RATIO 	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
99.DS.A112	Ø27	NO	60	120
99.DS.A113	Ø27	NO	90	120
99.DS.A114	Ø27	NO	110	120

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**

DOOSAN

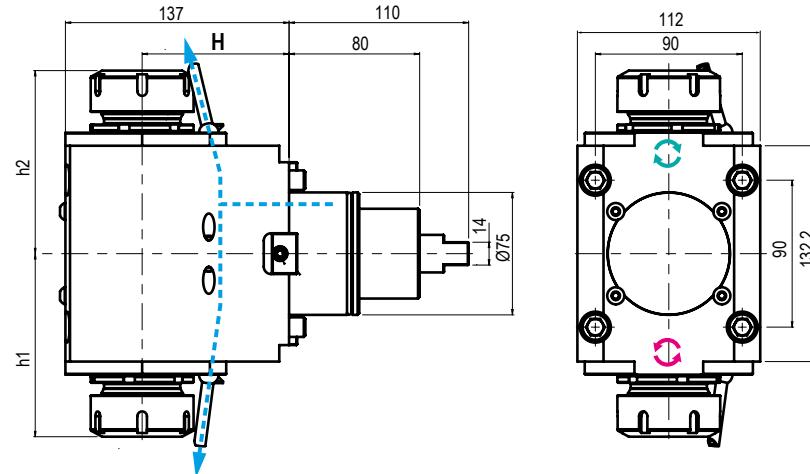
HWACHEON

HYUNDAI WIA

SAMSUNG

VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

TIPO - TYPE

Doppio Radiale  
Double Radial

USCITA - OUTPUT

Portapinza  
Collet Chuck

REFRIGERANTE

COOLANT  
Esterno  
External

RATIO

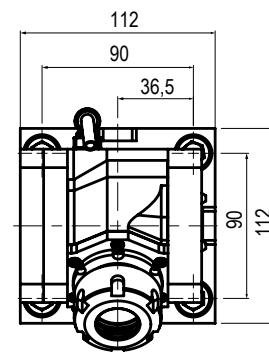
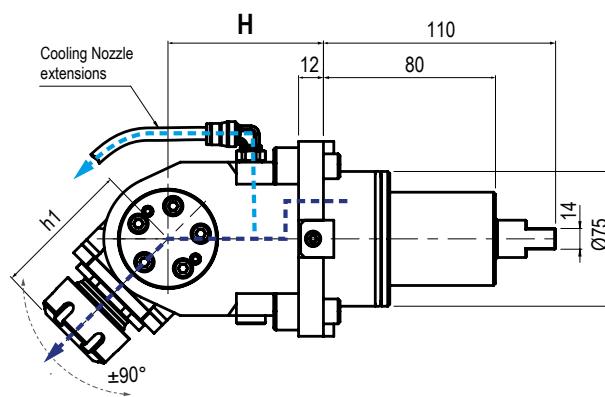
1:1



ROTAZIONE - ROTATION

Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A44	ER-40-40 - Ø3-30	NO	60	108,4÷112,1	108,4÷112,1	100	6.000	12	
99.DS.A79	ER-40-40 - Ø3-30	NO	90	108,4÷112,1	108,4÷112,1	100	6.000	12	
99.DS.A80	ER-40-40 - Ø3-30	NO	110	108,4÷112,1	108,4÷112,1	100	6.000	12	

TIPO - TYPE  
Orientabile ±90°  
±90° AdjustableUSCITA - OUTPUT  
Portapinza  
Collet ChuckREFRIGERANTE  
COOLANT  
80BARRATIO  
1:1ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.DS.A47	ER-25 Ø1÷16	NO	75	63,5÷67,2	25	6.000	4	
99.DS.A48	ER-25 Ø1÷16	✓	75	63,5÷67,2	25	6.000	4	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle

Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN

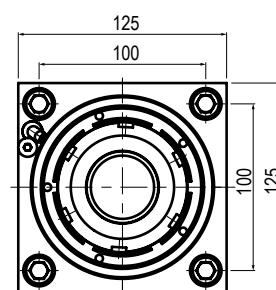
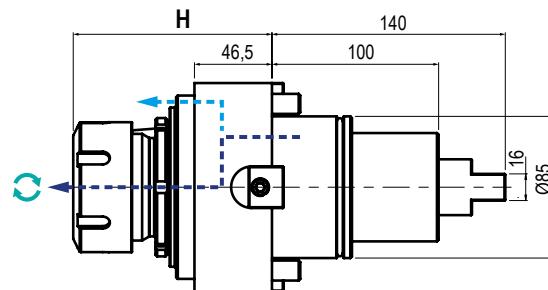
HWACHEON

HYUNDAI WIA

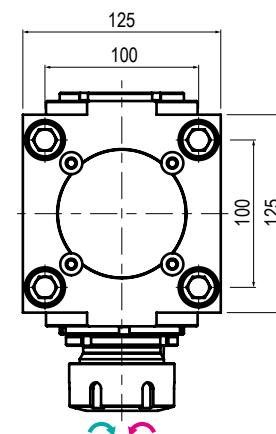
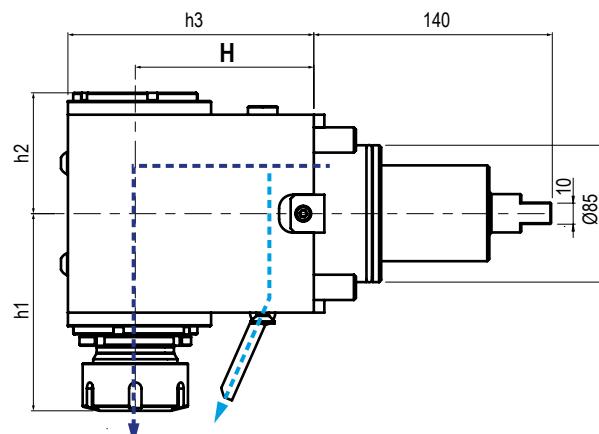
SAMSUNG

VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT**  
**85**
**NEW**

TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle			
Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.DS.A90	ER-50 Ø7÷34	NO	112÷119,2	150	3.200	15	
99.DS.A50	ER-50 Ø7÷34	✓	112÷119,2	150	3.200	15	

**NEW**

TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle							
Code	*	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A77		ER-50 Ø7÷34	NO	85	140,3÷147,7	91,6	136,5	150	3.200	15	
99.DS.A77C		ER-50 Ø7÷34	✓	85	140,3÷147,7	91,6	136,5	150	3.200	15	
99.DS.A56		ER-50 Ø7÷34	✓	85	140,3÷147,7	91,6	136,5	150	3.200	15	
99.DS.A56C		ER-50 Ø7÷34	✓	110	140,3÷147,7	91,6	161,5	150	3.200	15	
99.DS.A89		ER-50 Ø7÷34	NO	110	140,3÷147,7	91,6	161,5	150	3.200	15	
99.DS.A89C		ER-50 Ø7÷34	✓	110	140,3÷147,7	91,6	161,5	150	3.200	15	
99.DS.A57		ER-50 Ø7÷34	✓	110	140,3÷147,7	91,6	161,5	150	3.200	15	
99.DS.A57C		ER-50 Ø7÷34	✓	110	140,3÷147,7	91,6	161,5	150	3.200	15	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

DOOSAN

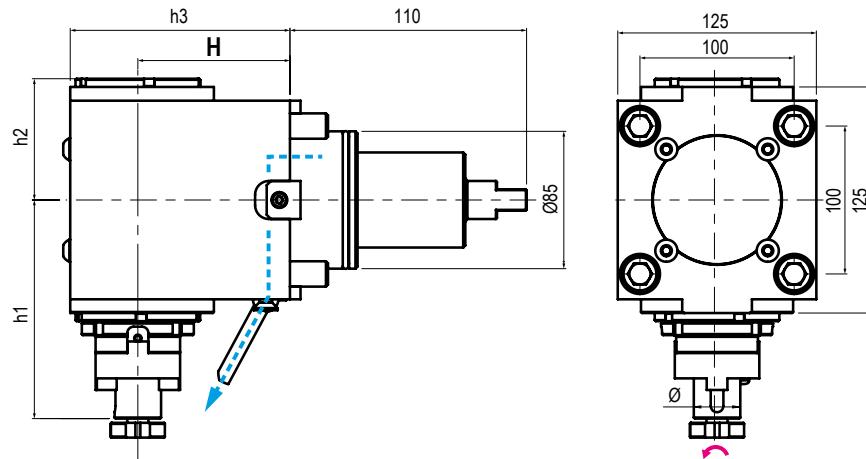
HWACHEON

HYUNDAI WIA

SAMSUNG

VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

TIPO - TYPE

Radiale - Radial



USCITA - OUTPUT

Porta Fresa  
Shell End Milling Cutter

REFRIGERANTE

COOLANT  
80BAR

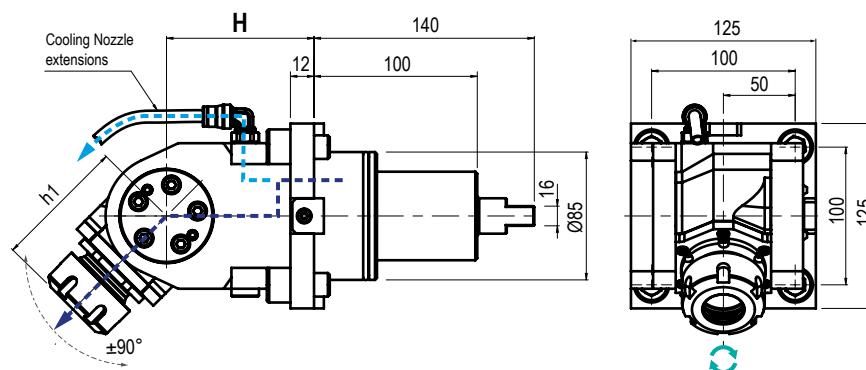
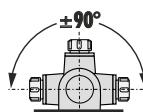
1:1



ROTAZIONE - ROTATION

Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw
99.DS.A115	Ø27	NO	85	136	91,6	136,5	150	3.200	15
99.DS.A116	Ø27	NO	110	136	91,6	161,5	150	3.200	15



TIPO - TYPE

Orientabile ±90°  
±90° Adjustable

USCITA - OUTPUT

Portapinza  
Collet Chuck

REFRIGERANTE

COOLANT  
80BAR

1:1



ROTAZIONE - ROTATION

Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw
99.DS.A60	ER-32 Ø2÷20	NO	167,5	52,5	50	4.000	6
99.DS.A61	ER-32 Ø2÷20	✓	167,5	52,5	50	4.000	6

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle

Rotazione opposta al mandrino - Rotation opposite as machine spindle

# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

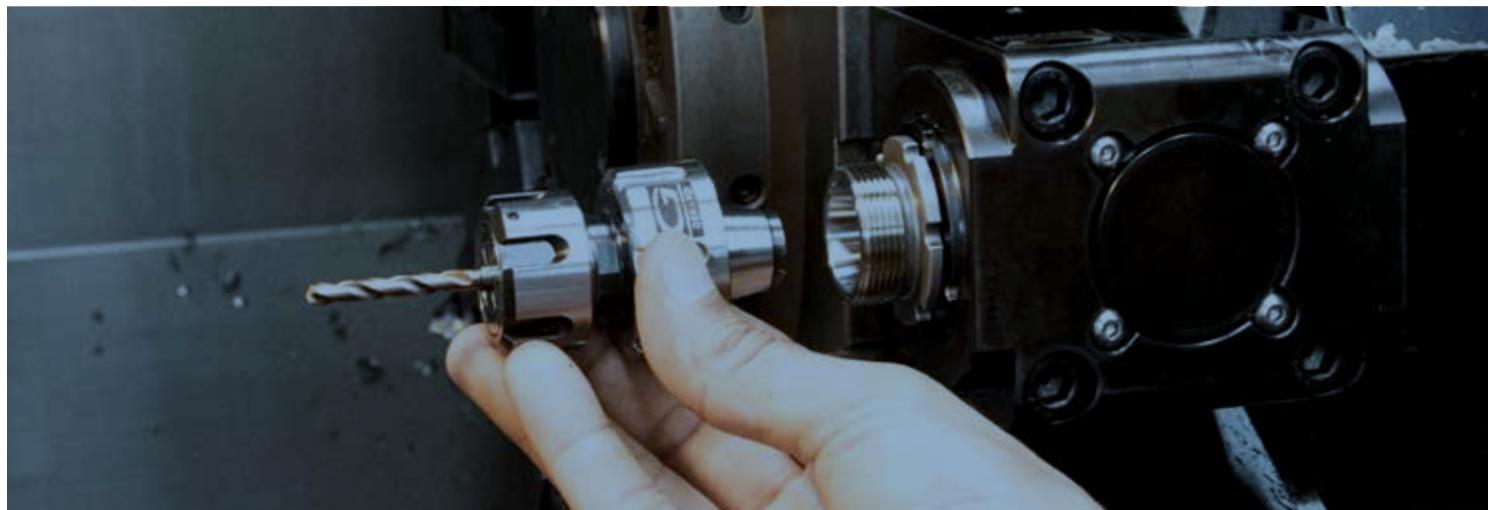
NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

NUOVI MODELLI  
NEW MODELS

DMG MORI  
NLX / NZ / SL-ZL-DL

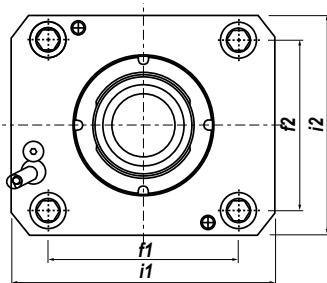
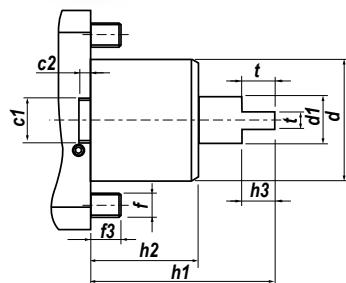
GOODWAY / CMZ



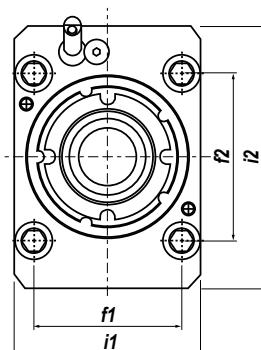
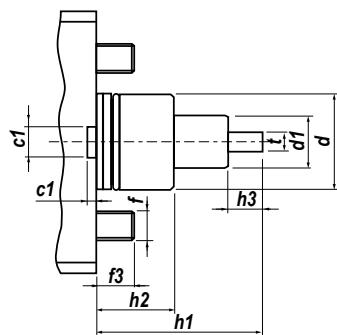
Uscita - Output  
**C. ISO26623**

DISPONIBILI SU RICHIESTA  
AVAILABLE ON REQUEST

NLX



NZ



	c1	c2	d	d1	f	f1	f2	f3	h1	h2	h3	i1	i2	t
NLX	20	5,5	60	23,7	M12	94	84	15	91	53	16,5	130	108	8
NZ	12	4,5	40	22	10	70	62	16	69	32	14,4	78	110	8



**DOTAZIONE STANDARD**  
STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / viti bloccaggio motorizzato / O-ring  
Art.179CH shaft lock wrench / cooling nozzle /  
nozzle lock screws Art.183 / driven tool locking screws / O-ring



**CAMBI RAPIDI MODULARI** Vedi pag. 5.66  
MODULAR QUICK CHANGE See page 5.66

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

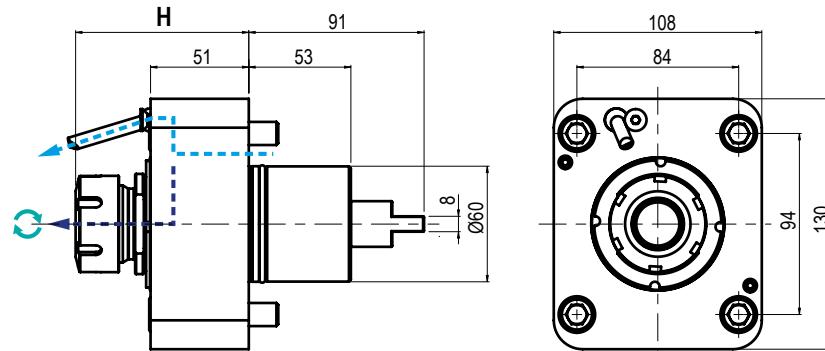
DMG MORI

GOODWAY

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

NLX

NEW



TIPO - TYPE

Assiale - Axial



USCITA - OUTPUT

Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT

80BAR



RATIO

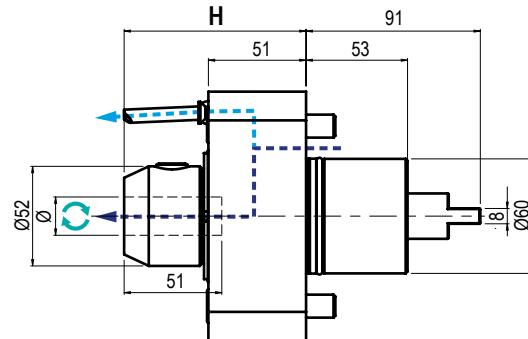
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ROTAZIONE - ROTATION

Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MS.A80	ER-25 - Ø1÷16	NO	81,3 ÷ 85	60	10.000	10	
99.MS.A59	ER-32 - Ø2÷20	NO	86,2 ÷ 89,9	60	10.000	10	
99.MS.A62	ER-40 - Ø3÷30	NO	88,3 ÷ 92	60	10.000	10	
99.MS.A81	ER-25 - Ø1÷16	✓	81,3 ÷ 85	60	10.000	10	
99.MS.A60	ER-32 - Ø2÷20	✓	86,2 ÷ 89,9	60	10.000	10	
99.MS.A63	ER-40 - Ø3÷30	✓	88,3 ÷ 92	60	10.000	10	



TIPO - TYPE

Assiale - Axial



USCITA - OUTPUT

Weldon



REFRIGERANTE  
COOLANT

80BAR



RATIO

1:1



ROTAZIONE - ROTATION

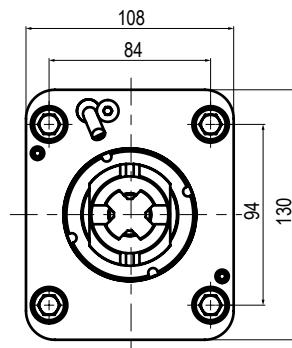
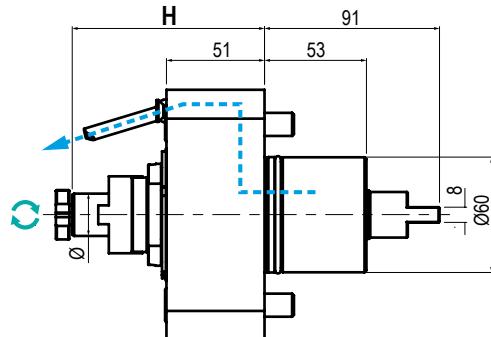
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MS.A01	Ø20	NO	95	60	10.000	10	
99.MS.A02	Ø20	✓	95	60	10.000	10	
99.MS.A03	Ø25	NO	125,1	60	10.000	10	
99.MS.A04	Ø25	✓	125,1	60	10.000	10	
99.MS.A05	Ø1"	NO	125,1	60	10.000	10	
99.MS.A06	Ø1"	✓	125	60	10.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**DMG MORI**
**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE

Assiale - Axial



USCITA - OUTPUT

Porta Fresa  
Shell End Milling CutterREFRIGERANTE  
COOLANTEsterno  
External

RATIO

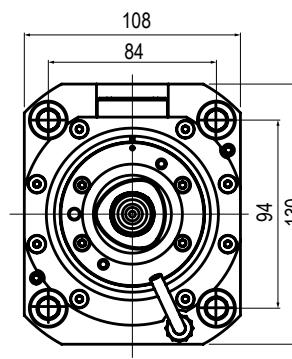
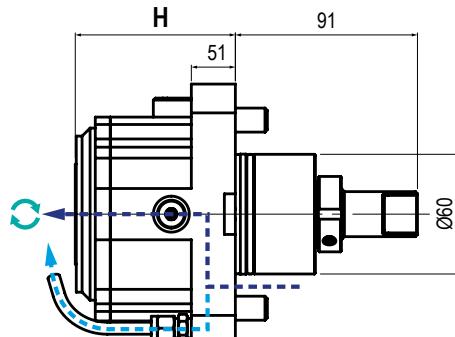
1:1



ROTAZIONE - ROTATION

Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MS.A67	Ø 22	NO	100	60	6.000	10	
99.MS.A68	Ø 27	NO	100	60	6.000	10	



TIPO - TYPE

Assiale - Axial



USCITA - OUTPUT

C. ISO26623

REFRIGERANTE  
COOLANT

80BAR



RATIO

1:1



ROTAZIONE - ROTATION

Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MS.A89	C5	NO	80	100	10.000	5,2	
99.MS.A90	C4	NO	80	100	10.000	5,2	
99.MS.A91	C5	✓	80	100	10.000	5,2	
99.MS.A92	C4	✓	80	100	10.000	5,2	

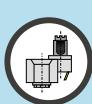
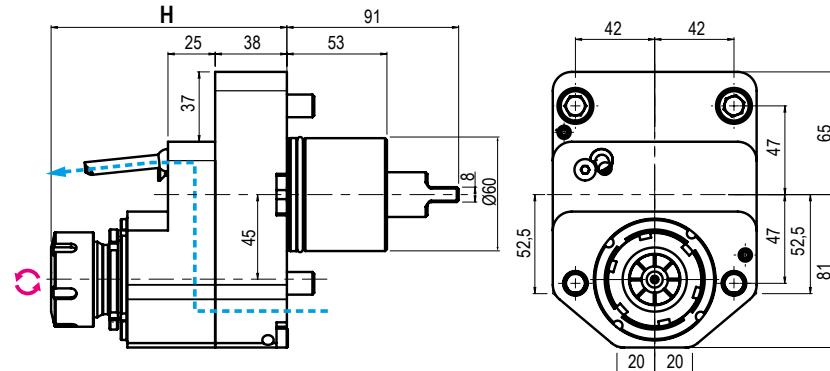
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DMG MORI

GOODWAY

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

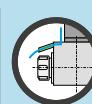
**NEW**



TIPO - TYPE  
Disassato  
Offset Axis



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



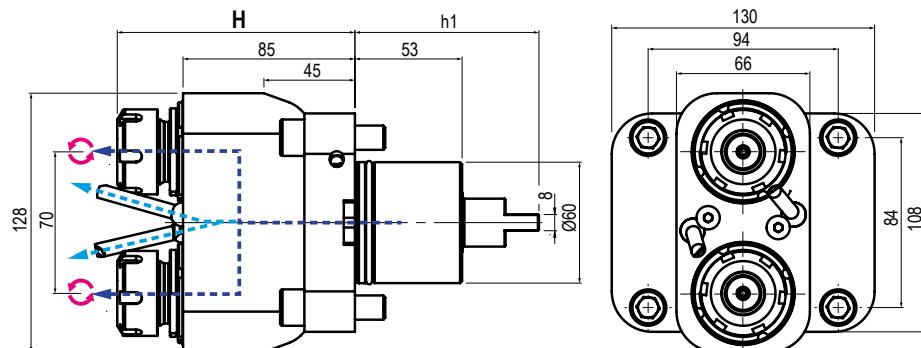
RATIO  
**1:1**



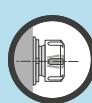
ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A61	ER-32 - Ø2÷20	NO	121,3÷125	100	10.000	10

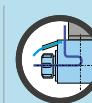
**NEW**



TIPO - TYPE  
Doppio Assiale  
Double Axial



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**80BAR**



RATIO  
**1:1**



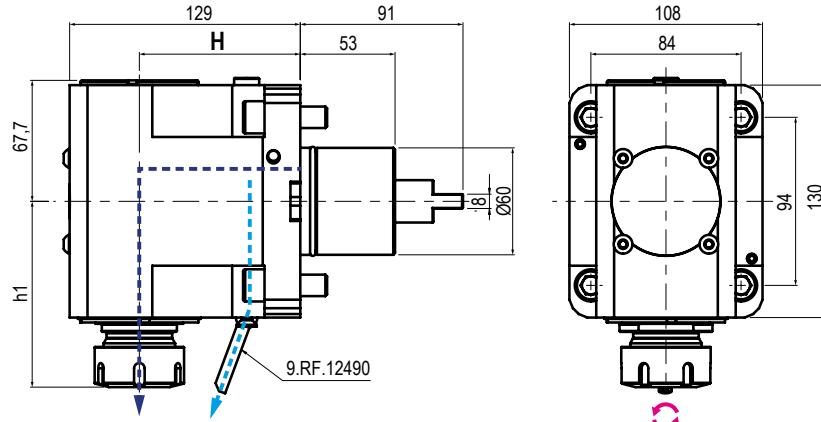
ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A57	ER-25-25 - Ø1÷16	NO	113,8÷117,5	40	6000	10
99.MS.A58	ER-25-25 - Ø1÷16	✓	113,8÷117,5	40	6000	10

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

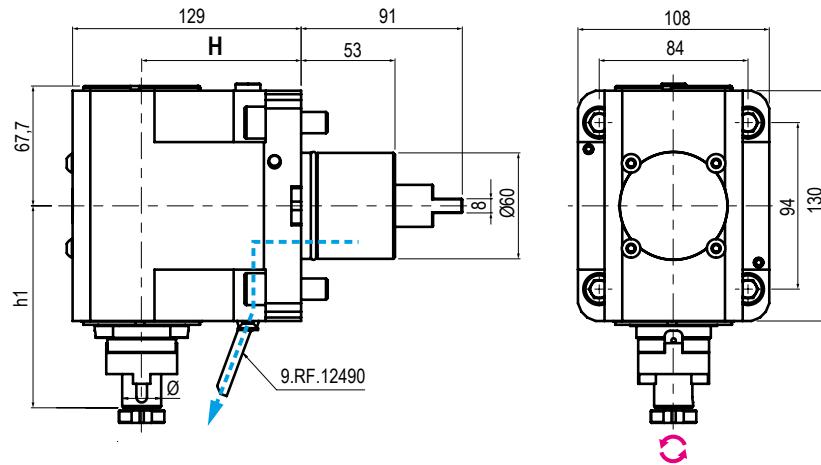
**DMG MORI**
**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MS.A72	ER-32 - Ø2÷20	NO	90	103,9	60	10.000	10	
99.MS.A73	ER-32 - Ø2÷20	✓	90	103,9	60	10.000	10	
99.MS.A76	ER-40 - Ø3÷30	NO	90	106	60	10.000	10	
99.MS.A77	ER-40 - Ø3÷30	✓	90	106	60	10.000	10	
99.MS.A82	ER-25 - Ø1÷16	NO	90	95,3÷99	60	10.000	10	
99.MS.A83	ER-25 - Ø1÷16	✓	90	95,3÷99	60	10.000	10	

**NEW**


TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MS.A88	Ø16	NO	90	67,7	60	6.000	10	
99.MS.A69	Ø22	NO	90	67,7	60	6.000	10	
99.MS.A70	Ø27	NO	90	67,7	60	6.000	10	

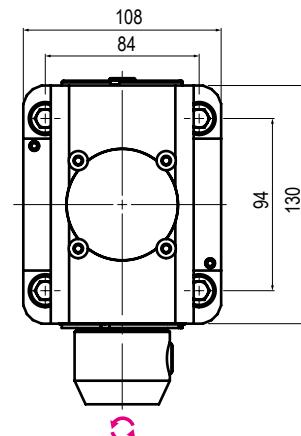
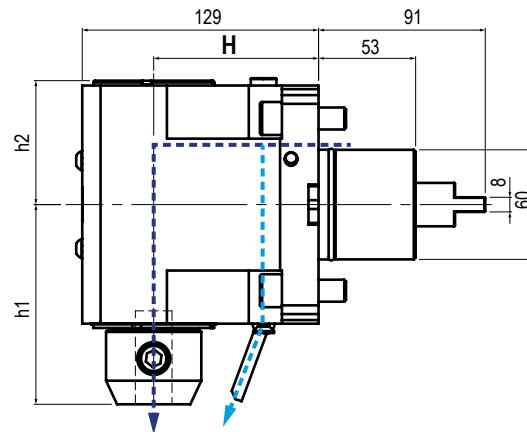
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**DMG MORI**

**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

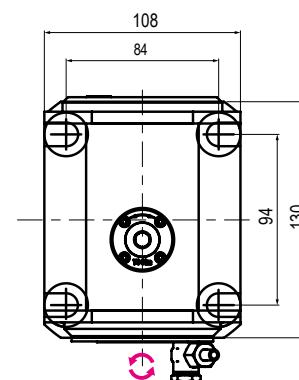
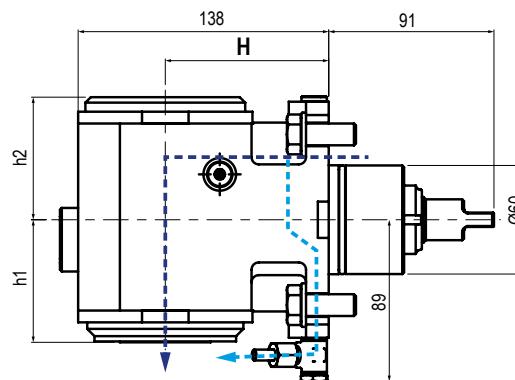
**NEW**



TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT <b>80BAR</b>	RATIO 	ROTAZIONE - ROTATION 
Radiale - Radial	Weldon		1:1	Opposto al mandrino Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw
99.MS.A07	Ø20	NO	90	109	67,7	60	10.000	10
99.MS.A08	Ø20	✓	90	109	67,7	60	10.000	10
99.MS.A09	Ø25	NO	90	139	67,7	60	10.000	10
99.MS.A10	Ø25	✓	90	139	67,7	60	10.000	10
99.MS.A11	Ø1"	NO	90	139	67,7	60	10.000	10
99.MS.A12	Ø1"	✓	90	139	67,7	60	10.000	10
99.MS.A13	Ø32	NO	90	141	67,7	60	10.000	10
99.MS.A14	Ø32	✓	90	141	67,7	60	10.000	10

**NEW**



TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT <b>80BAR</b>	RATIO 	ROTAZIONE - ROTATION 
Radiale - Radial	C. ISO26623		1:1	Opposto al mandrino Opposite to machine spindle

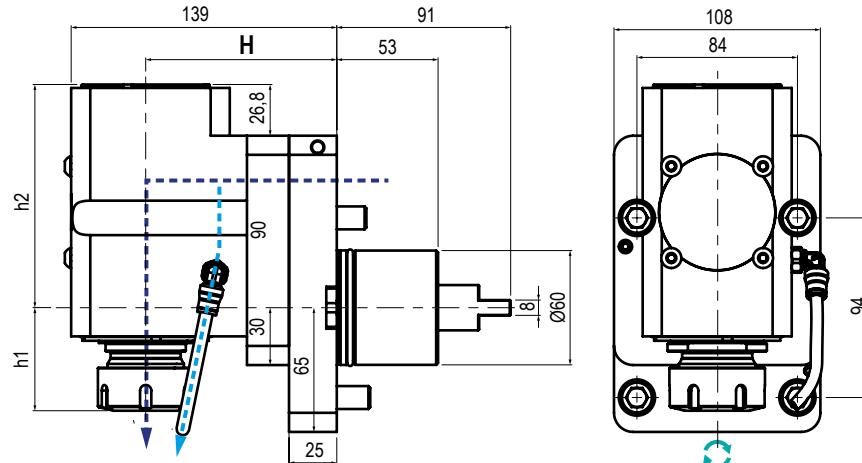
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw
99.MS.A93	C5	NO	90	68	68	100	10.000	5,2
99.MS.A94	C4	NO	90	68	68	100	10.000	5,2
99.MS.A95	C5	✓	90	68	68	100	10.000	5,2
99.MS.A20	C4	✓	90	68	68	100	10.000	5,2

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

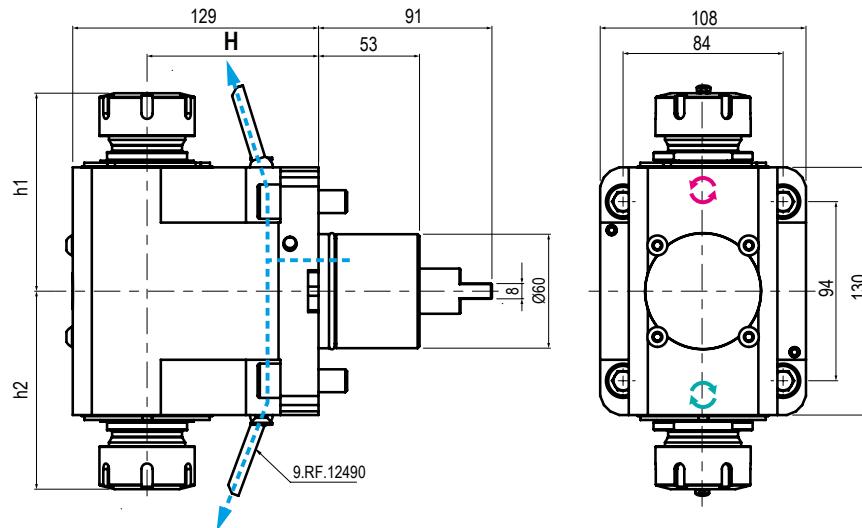
DMG MORI

GOODWAY

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

TIPO - TYPE Arretrato Rear Offset	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT <b>80BAR</b>	RATIO <b>1:1</b>	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle					
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MS.A74	ER-32 - Ø2÷20	NO	100	MAX 53,9	117	60	10000	10	
99.MS.A75	ER-32 - Ø2÷20	✓	100	MAX 53,9	117	60	10000	10	



TIPO - TYPE Doppio Radiale Radial Double	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO <b>1:1</b>	ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle					
Code	Output Ø	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MS.A84	ER-32 - 32 Ø2÷20	NO	90	100 ÷ 103,9	100÷103,9	60	10.000	10	
99.MS.A85	ER-40 - 40 Ø3÷30	NO	90	102,3 ÷ 106	102,3÷106	60	10.000	10	

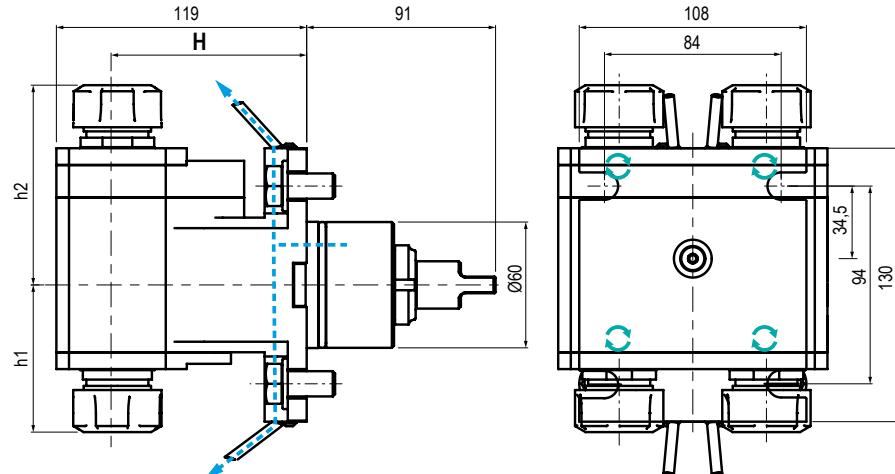
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DMG MORI

GOODWAY

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**



TIPO - TYPE  
Radiale 4 uscite  
Radial 4 Outputs



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



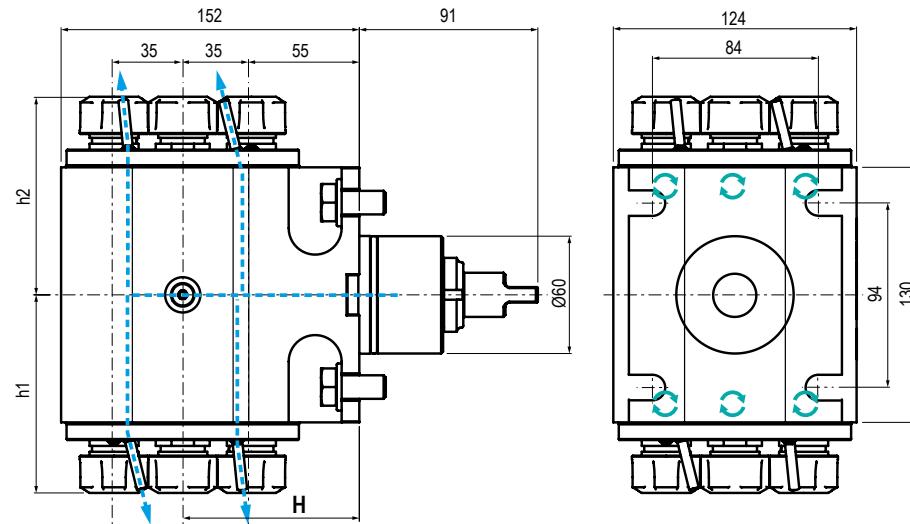
RATIO  
1:1



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MS.A96	ER-25 - Ø1÷16	NO	90	63,3÷70	40	6.000	2,1	

**NEW**



TIPO - TYPE  
Radiale 8 uscite  
Radial 8 Outputs



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



RATIO  
1:1



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

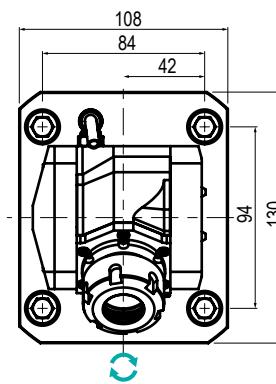
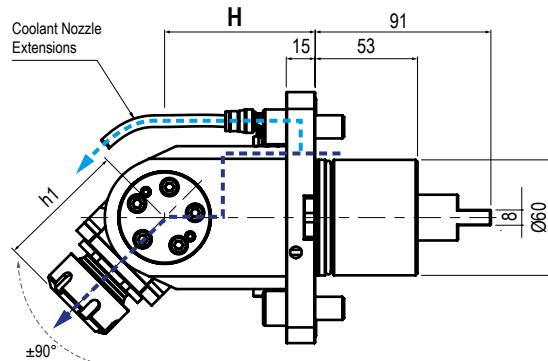
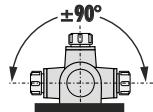
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MS.A97	ER-20 - Ø1÷13	NO	90	97,3÷101	97,3÷101	20	6000	1,1	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DMG MORI

GOODWAY

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

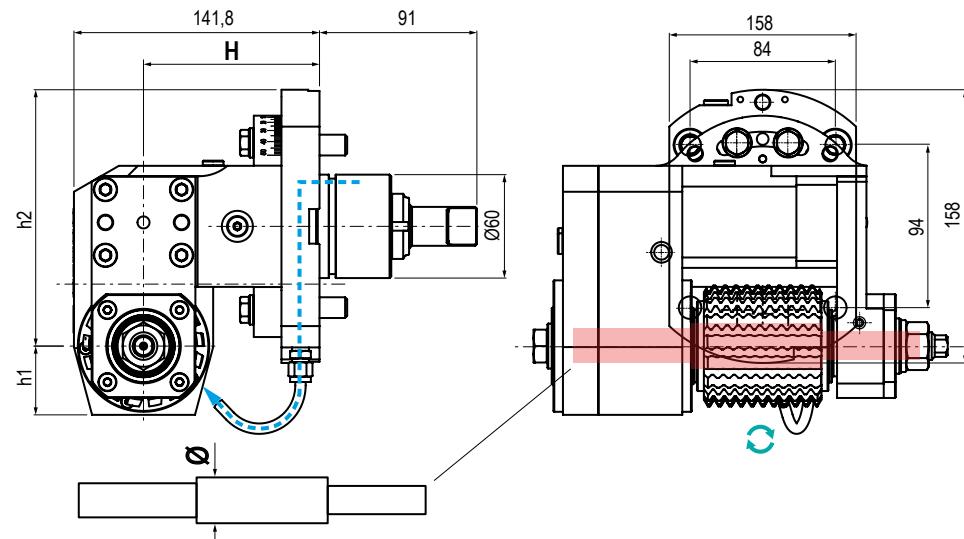

**TIPO - TYPE**  
Orientabile ±90°  
±90° Adjustable

**USCITA - OUTPUT**  
Porta Pinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
**80BAR**
**RATIO**  
**1:1**
**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MS.A86	ER-25 - Ø1÷16	NO	78	Max. 67,2	25	10.000	4	
99.MS.A87	ER-25 - Ø1÷16	✓	78	Max. 67,2	25	10.000	4	

NEW


**TIPO - TYPE**  
Porta Creatore  
Driven gear hobber


USCITA - OUTPUT


**REFRIGERANTE**  
COOLANT  
Esterno  
External
**RATIO**  
**2:1**
**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

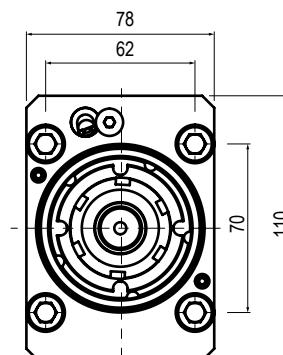
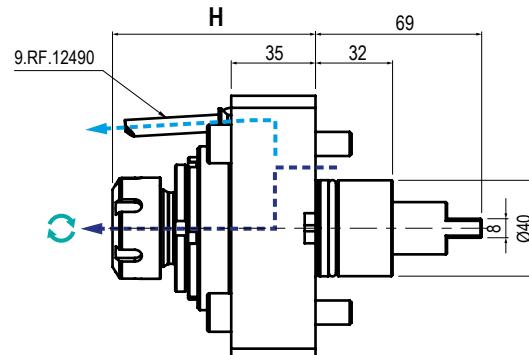
Code	Ø	Int Cool.	H	h1	h2	Nm	Rpm	
99.MS.A98	Ø16	NO	101,77	141,8	91	150	3.000	
99.MS.A99	Ø22	NO	101,77	141,8	91	150	3.000	
99.MS.A15	Ø27	NO	101,77	141,8	91	150	3.000	
99.MS.A16	Ø32	NO	101,77	141,8	91	150	3.000	
99.MS.A17	Ø0,75"	NO	101,77	141,8	91	150	3.000	
99.MS.A18	Ø1"	NO	101,77	141,8	91	150	3.000	
99.MS.A19	Ø1,25"	NO	101,77	141,8	91	150	3.000	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**DMG MORI**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

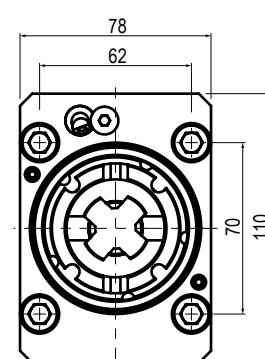
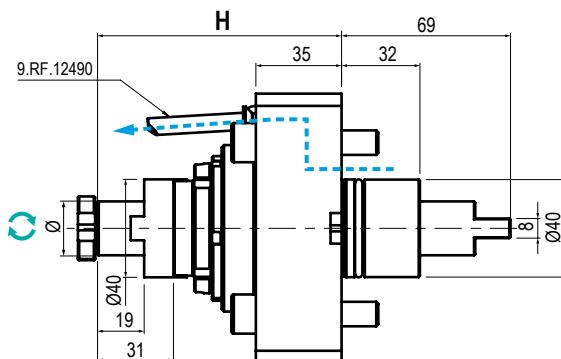
**NZ**



TIPO - TYPE Assiale- Axial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT <b>100BAR</b>	RATIO <b>1:1</b>	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A101	ER-25 - Ø1÷16	NO	80,6 ÷ 84,3	50	12.000	7,5
99.MS.A103	ER-32 - Ø2÷20	NO	85,5 ÷ 89,2	50	12.000	7,5
99.MS.A102	ER-25 - Ø1÷16	✓	80,6 ÷ 84,3	50	12.000	7,5
99.MS.A104	ER-32 - Ø2÷20	✓	85,5 ÷ 89,2	50	12.000	7,5

**5**



TIPO - TYPE Assiale- Axial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO <b>1:1</b>	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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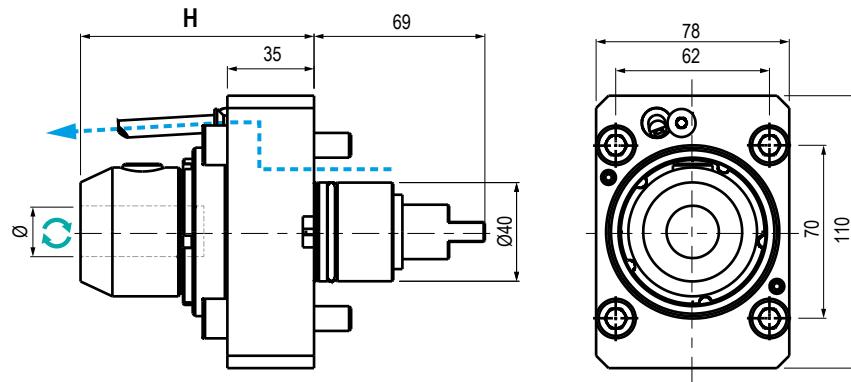
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A105	Ø22	NO	100	50	12.000	7,5

MODELLI DI TORNIO COMPATIBILI  
COMPATIBLE LATHE TYPES

DMG MORI

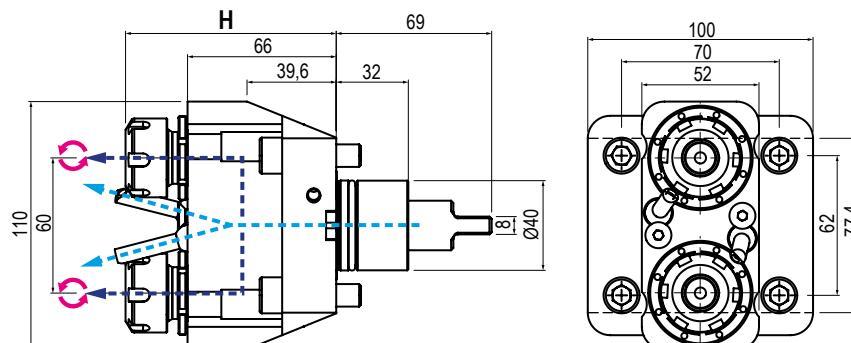
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**



TIPO - TYPE 	Assiale- Axial	USCITA - OUTPUT 	Weldon	REFRIGERANTE COOLANT Esterno External 	RATIO 	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle 
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A120	Ø16	NO	90	50	12.000	7,5

**NEW**

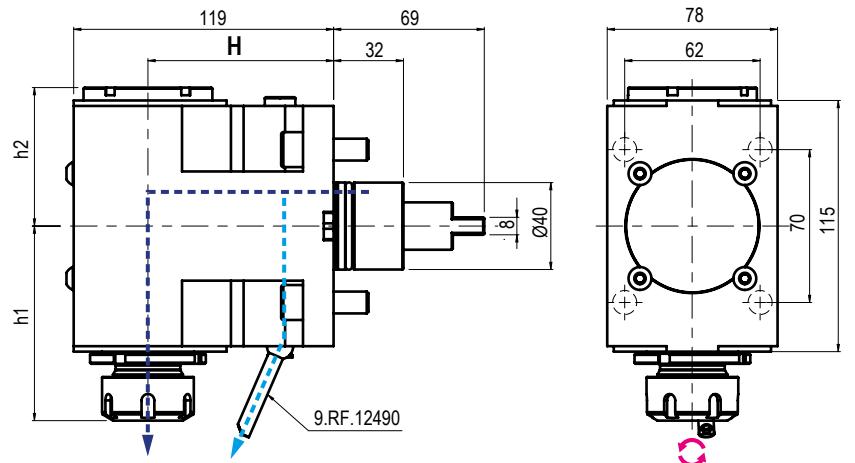


TIPO - TYPE 	Doppio Assiale Double Axial	USCITA - OUTPUT 	Porta Pinza Collet Chuck	REFRIGERANTE COOLANT 100BAR 	RATIO 	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle 
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A121	ER-20 - Ø1÷13	NO	87,8÷91,5	30	6.000	5,5
99.MS.A122	ER-20 - Ø1÷13	✓	87,8÷91,5	30	6.000	5,5

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

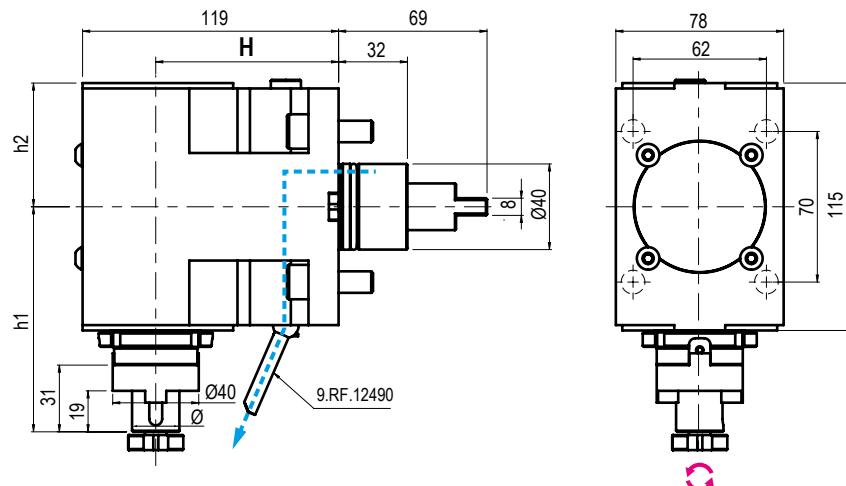
DMG MORI

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT <b>100BAR</b>	RATIO 	ROTAZIONE - ROTATION  Opposto al mandrino Opposite to machine spindle
Radiale - Radial	Porta Pinza Collet Chuck		1:1	

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw
99.MS.A108	ER-32 - Ø2÷20	NO	85	Max 94	57,5	50	12.000	7,5
99.MS.A109	ER-32 - Ø2÷20	✓	85	Max 94	63,5	50	12.000	7,5
99.MS.A106	ER-25 - Ø1÷16	NO	85	Max 94	57,5	50	12.000	7,5
99.MS.A107	ER-25 - Ø1÷16	✓	85	Max 94	63,5	50	12.000	7,5

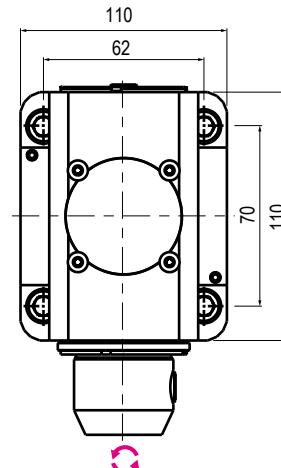
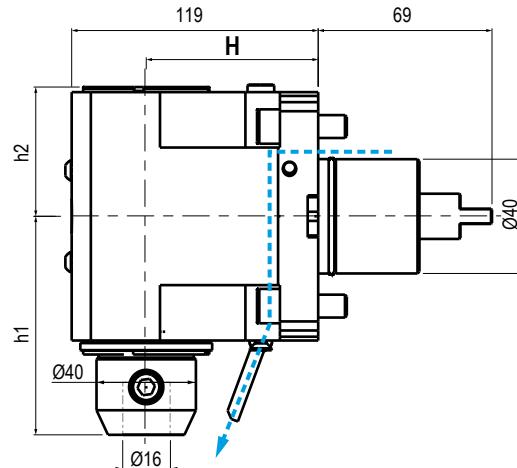


TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT Esterno External	RATIO 	ROTAZIONE - ROTATION  Opposto al mandrino Opposite to machine spindle
Radiale - Radial	Porta Fresa Shell End Milling Cutter		1:1	

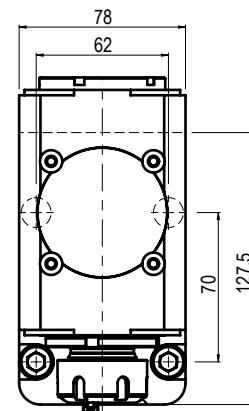
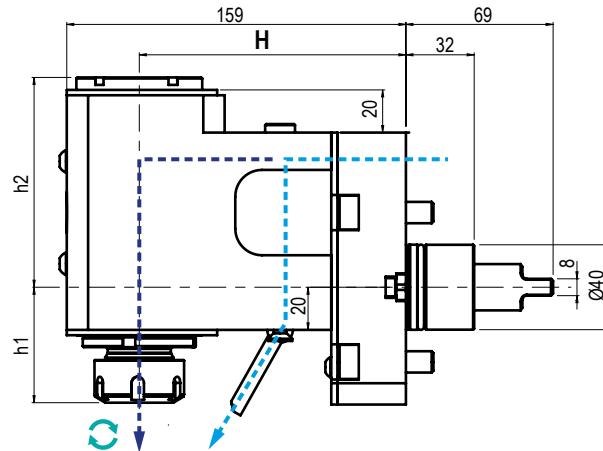
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw
99.MS.A110	Ø22	NO	85	104,6	57,5	50	12.000	7,5

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**DMG MORI**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT Esterno External 	RATIO 1:1 	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle 					
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MS.A127	Ø16	NO	85	98	57,5	50	12.000	7,5	

**NEW**


TIPO - TYPE 	USCITA - OUTPUT 	REFRIGERANTE COOLANT 100BAR 	RATIO 1:1 	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle 					
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MS.A111*	ER-25 - Ø1÷16	NO	125	Max 54,1	92,5	50	12.000	7,5	
99.MS.A112*	ER-25 - Ø1÷16	✓	125	Max 54,1	92,5	50	12.000	7,5	
99.MS.A123	ER-25 - Ø1÷16	NO	125	50,4÷54,1	92,5	50	12.000	7,5	
99.MS.A124	ER-25 - Ø1÷16	✓	125	50,4÷54,1	98,4	50	12.000	7,5	
99.MS.A125	ER-32 - Ø2÷20	NO	125	55,3÷59	92,5	50	12.000	7,5	
99.MS.A126	ER-32 - Ø2÷20	✓	125	55,3÷59	98,4	50	12.000	7,5	

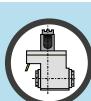
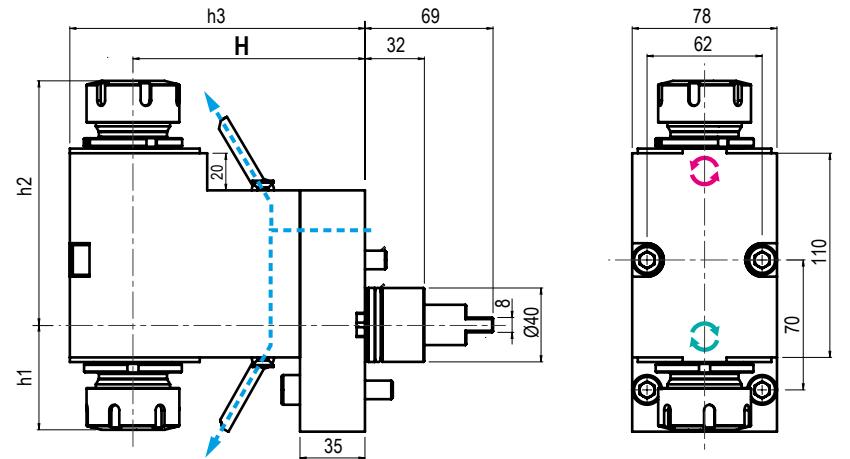
Disponibile solo per tornio NZ 1000 / Only for lathe NZ 1000

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

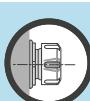
**DMG MORI**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

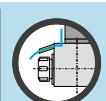
**NEW**



TIPO - TYPE  
**Doppio arretrato**  
Double rear offset



USCITA - OUTPUT  
**Porta Pinza**  
Collet Chuck



REFRIGERANTE  
COOLANT  
**Esterno**  
External



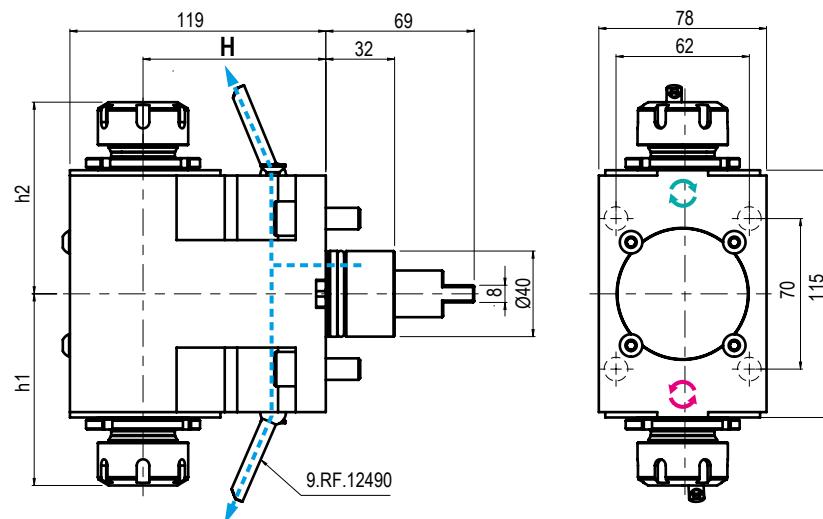
RATIO  
**1:1**



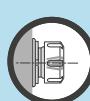
ROTAZIONE - ROTATION  
Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MS.A128	ER-25-25 Ø1÷16	NO	125	50,4÷54,1	120,4÷124,1	50	12.000	7,5	
99.MS.A129	ER-32-32 Ø2÷20	NO	125	55,3÷59	125,3÷129	50	12.000	7,5	

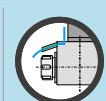
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TIPO - TYPE  
**Doppio Radiale**  
Double Radial



USCITA - OUTPUT  
**Porta Pinza**  
Collet Chuck



REFRIGERANTE  
COOLANT  
**Esterno**  
External



RATIO  
**1:1**



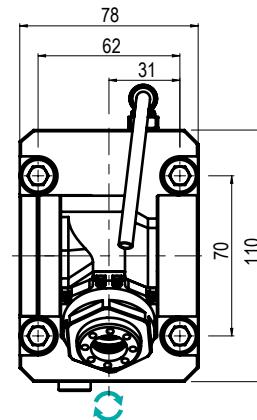
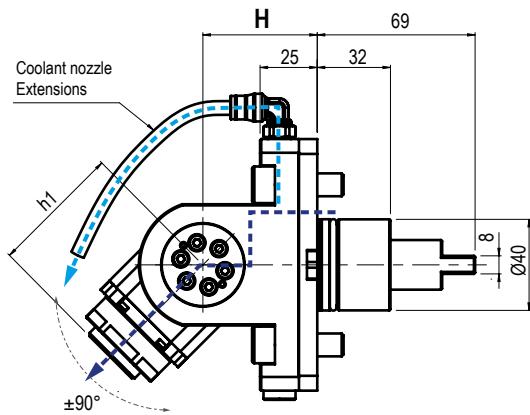
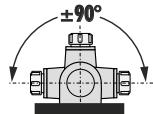
ROTAZIONE - ROTATION  
Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MS.A115	ER-25-25 - Ø1÷16	NO	85	Max 89	Max 89	50	12.000	7,5	
99.MS.A114	ER-32-32 - Ø2÷20	NO	85	Max 94	Max 94	50	12.000	7,5	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**DMG MORI**

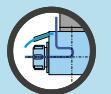
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE  
Orientabile ±90°  
±90° Adjustable



USCITA - OUTPUT  
Porta Pinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**100BAR**



RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MS.A118	ER-20 - Ø1+13	NO	50	57,1	17	12.000	5,5	
99.MS.A119	ER-20 - Ø1+13	✓	50	57,1	17	12.000	5,5	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

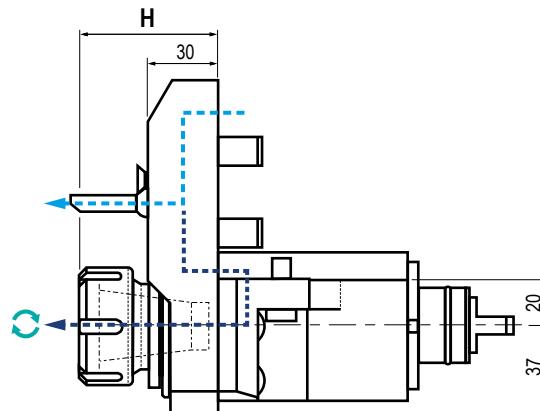
DMG MORI

CMZ

GOODWAY

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**SL/ZL  
/DL**

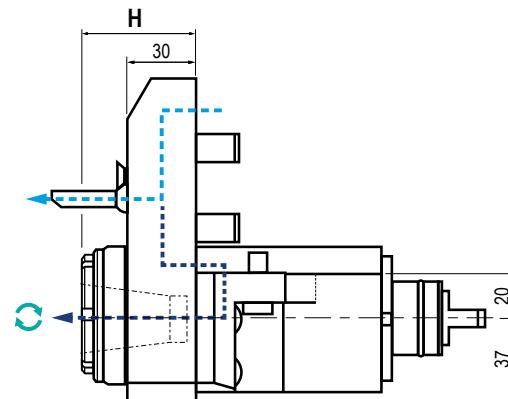


Il disegno potrebbe subire variazioni nel tempo  
The drawings are subject to change without prior notice

TIPO - TYPE Assiale- Axial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle		
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A28	ER-32 - Ø2÷20	NO	55,5÷60	70	6.000	10
99.MS.A29	ER-32 - Ø2÷20	✓	55,5÷60	70	6.000	10

**NEW**

**5**



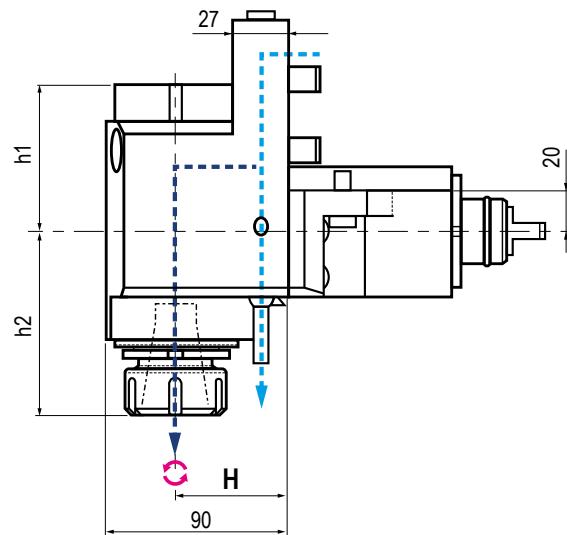
Il disegno potrebbe subire variazioni nel tempo  
The drawings are subject to change without prior notice

TIPO - TYPE Assiale- Axial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle		
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A30	ER-16 - Ø1÷10	NO	50	8	24.000	4

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

**DMG MORI**
**CMZ**
**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE

Radiale - Radial



USCITA - OUTPUT

Porta Pinza  
Collet ChuckREFRIGERANTE  
COOLANT

80BAR



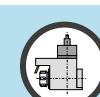
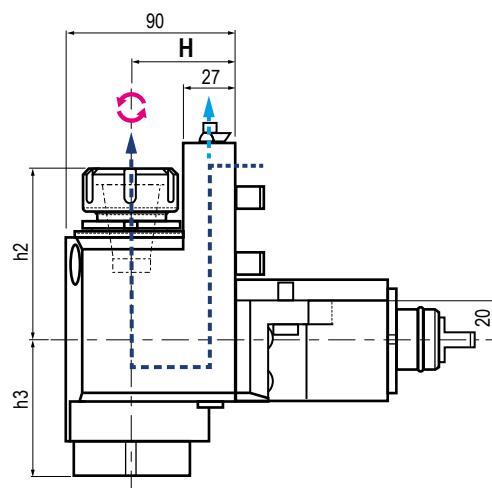
RATIO



ROTAZIONE - ROTATION

Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MS.A33	ER-32 - Ø2÷20	NO	55	57	89÷93,5	70	6.000	10	
99.MS.A34	ER-32 - Ø2÷20	✓	55	72	89÷93,5	70	6.000	10	
99.MS.A35	ER-16 - Ø2÷20	NO	55	64	76	8	24.000	4	



TIPO - TYPE

Radiale Rovesciato  
Radial Upside Down

USCITA - OUTPUT

Porta Pinza  
Collet ChuckREFRIGERANTE  
COOLANT

80BAR



RATIO



ROTAZIONE - ROTATION

Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	h2	h3	Nm	Rpm	kw	
99.MS.A41	ER-32 - Ø2÷20	NO	55	89÷93,5	57	70	6.000	10	
99.MS.A42	ER-32 - Ø2÷20	✓	55	89÷93,5	67	70	6.000	10	

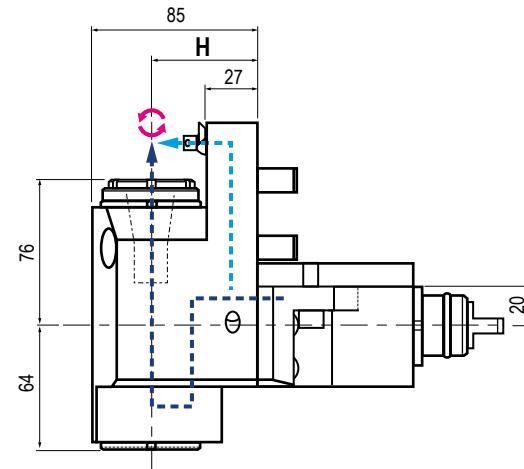
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DMG MORI

CMZ

GOODWAY

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



Il disegno potrebbe subire variazioni nel tempo  
The drawings are subject to change without prior notice



TIPO - TYPE

Radiale Rovesciato  
Radial Upside Down

USCITA - OUTPUT

Porta Pinza  
Collet ChuckREFRIGERANTE  
COOLANT

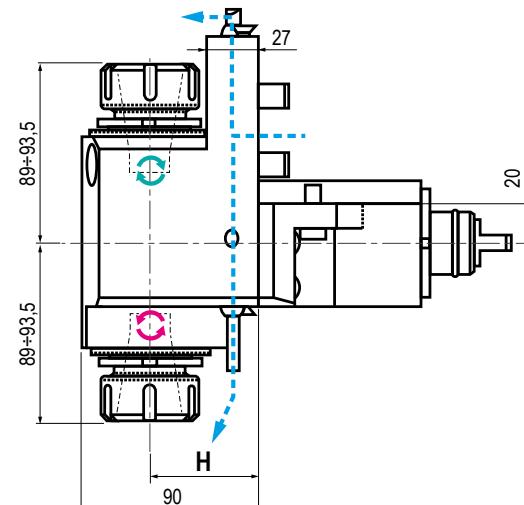
80BAR



1:4

ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A43	ER-16 - EF Ø1÷10	✓	55	8	24.000	4



Il disegno potrebbe subire variazioni nel tempo  
The drawings are subject to change without prior notice

TIPO - TYPE  
Doppio Radiale  
Double RadialUSCITA - OUTPUT  
Porta Pinza  
Collet ChuckREFRIGERANTE  
COOLANT  
Esterno  
External

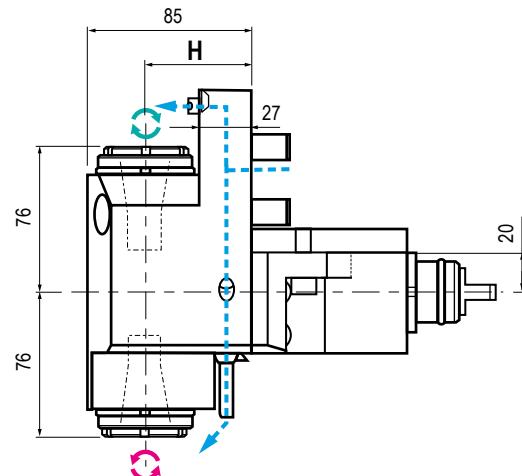
1:1

ROTAZIONE - ROTATION  
Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MS.A49	ER 32-32 - Ø2÷20	NO	55	70	6.000	10

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES
**DMG MORI****CMZ****GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


 Il disegno potrebbe subire variazioni nel tempo  
 The drawings are subject to change without prior notice


TIPO - TYPE

Doppio Radiale  
Double Radial

USCITA - OUTPUT

Porta Pinza  
Collet ChuckREFRIGERANTE  
COOLANTEsterno  
External

RATIO

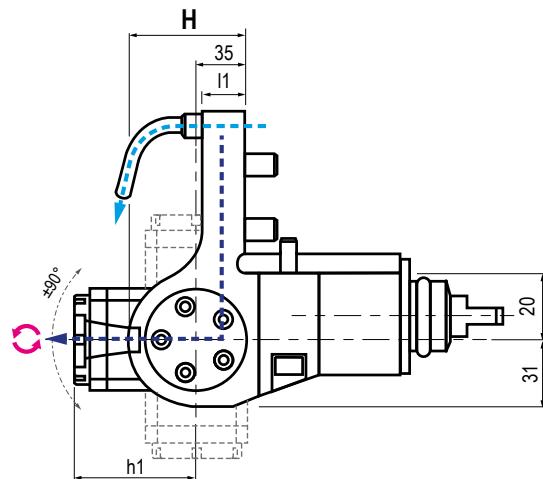
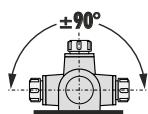
1:4



ROTAZIONE - ROTATION

Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MS.A51	ER 16-16 EF - Ø1÷10	NO	55	8	24.000	4	


 Il disegno potrebbe subire variazioni nel tempo  
 The drawings are subject to change without prior notice
TIPO - TYPE  
Orientabile ±90°  
±90° AdjustableUSCITA - OUTPUT  
Porta Pinza  
Collet ChuckREFRIGERANTE  
COOLANT  
80BARRATIO  
1:1ROTAZIONE - ROTATION  
Opposite to machine spindle

Code	Output	Int Cool.	H	l5	Nm	Rpm	kw	
99.MS.A55	ER-20 - EF Ø1÷13	NO	66	56	25	6.000	6	
99.MS.A56	ER-20 - EF Ø1÷13	✓	66	56	25	6.000	6	

# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

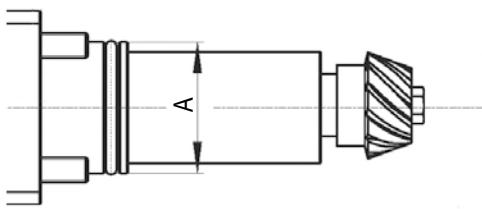
I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

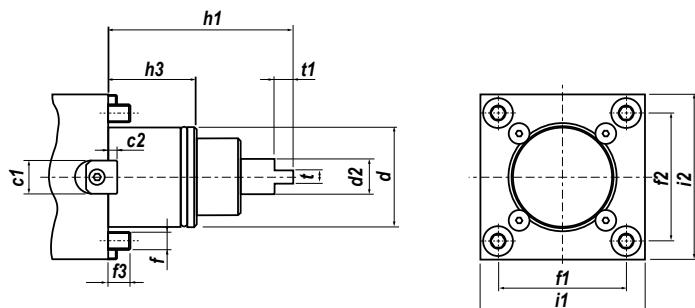
**NEW**

NUOVA GAMMA  
NEW RANGE

**GOODWAY**  
**G1 / G4**



Type	A
G1	42 h6



Type	d	d2	f	f1	f2	f3	h1	h3	i1	i2	t	t1
G4	Ø60	23,7	-	84	94	15	91	55	108	130	8	16,5



**DOTAZIONE STANDARD**  
STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / viti bloccaggio motorizzato / O-ring  
Art.179CH Tool shaft lock wrench / cooling nozzle Art.183 / nozzle lock screws / Driven tool locking screws / O-ring



**CAMBI RAPIDI MODULARI** Vedi pag. 5.122  
MODULAR QUICK CHANGE See pages 5.122

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

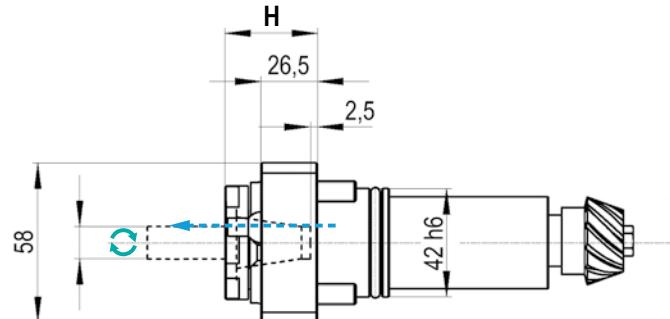
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**G1**

**NEW**



TIPO - TYPE  
Assiale - Axial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



RATIO  
**1:1**

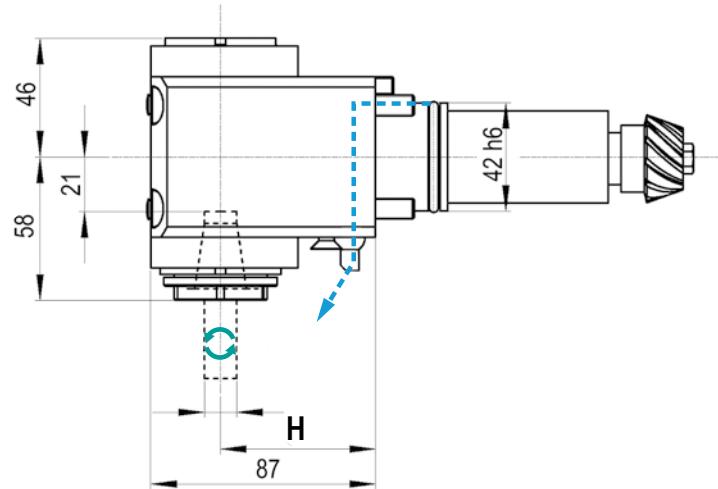


ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.GD.A01	ER-20 - DIN6499	NO	40	25	6.000	6	

**5**

**NEW**



TIPO - TYPE  
Radiale - Radial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



RATIO  
**1:1**



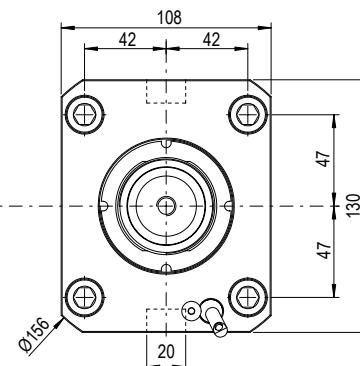
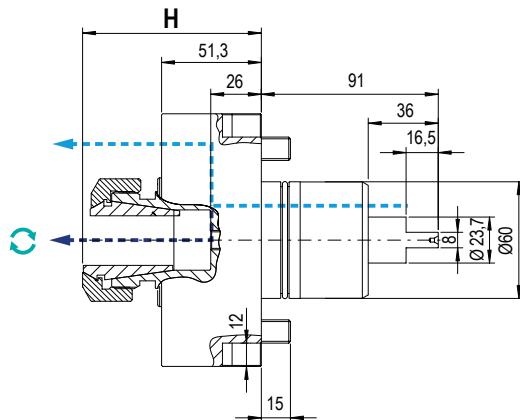
ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.GD.A02	ER-20 - DIN6499	NO	60	58	46	25	6.000	6	

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**G4** **NEW**

**TIPO - TYPE**  
 Assiale - Axial

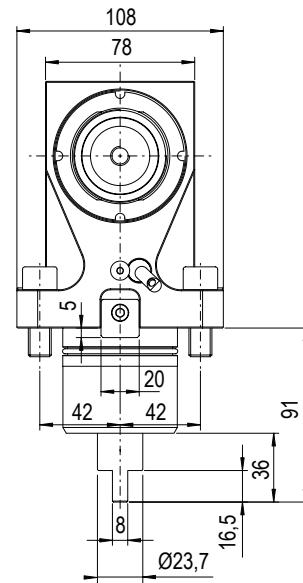
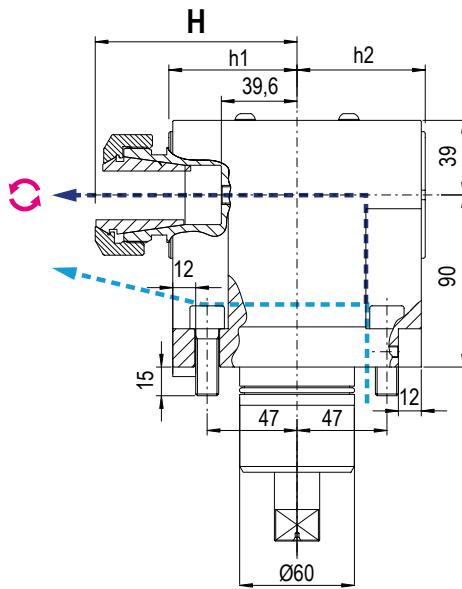
**USCITA - OUTPUT**  
 Portapinza  
 Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**70BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
 Uguale al mandrino  
 Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.GD.A07	ER-40 Ø3-26	NO	Min 87,5 - Max 92	63	6.000	10	
99.GD.A08	ER-40 Ø3-26	✓	Min 87,5 - Max 92	63	6.000	10	

**NEW**

**TIPO - TYPE**  
 Radiale- Radial

**USCITA - OUTPUT**  
 Portapinza  
 Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**70BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
 Opposto al mandrino  
 Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.GD.A09	ER-40 Ø3-26	NO	101÷105,5	67	67	63	6.000	10	
99.GD.A10	ER-40 Ø3-26	✓	101÷105,5	67	67	63	6.000	10	

# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

## NUOVA GAMMA NEW RANGE



**HAAS**  
**VDI 40 / BMT 65**

L= 104,85

L= 117,55

L= 130,25

VDI							
Modello di tornio / torretta Type of lathe / turret	VDI 40 TORRETTA STANDARD STANDARD TURRET VDI40		TORRETTA IBRIDA HYBRID TURRET		TORRETTA HAAS HAAS TURRET		
Modello di tornio Type of lathe	SL20/30	SL40 ST20/30	SL20/30 TL15/25	SL40	SL20/30	SL40	
Lunghezza presa di moto Coupling lenght	<b>L (mm)</b>	<b>104.85</b>	<b>117.55</b>	<b>117.55</b>	<b>130.25</b>	<b>117.55</b>	<b>130.25</b>
	Assiale Axial	Code	99.HA.590083	99.HA.590082	99.HA.590082	99.HA.596352	99.HA.590082
	Radiale Radial	Code	99.HA.590085	99.HA.590084	99.HA.590084	99.HA.596353	99.HA.590084

BMT			
DS30Y / ST20Y / ST25Y / ST30Y / ST35Y			
<b>c1</b>	18	<b>f3</b>	15
<b>c2</b>	5	<b>h1</b>	112
<b>d</b>	65	<b>h2</b>	83
<b>d1</b>	45	<b>h3</b>	32
<b>d2</b>	18	<b>i1</b>	94
<b>f</b>	M12	<b>i2</b>	94
<b>f1</b>	70	<b>t</b>	10
<b>f2</b>	73	<b>t1</b>	14



### DOTAZIONE STANDARD STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH /  
ugello refrigerazione Art.180 / vite bloccaggio motorizzato  
Art.179CH shaft lock wrench /  
cooling nozzle Art.180 / nozzle lock screws



### CAMBI RAPIDI MODULARI **Vedi pag 5.80** MODULAR QUICK CHANGE **See page 5.80**

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

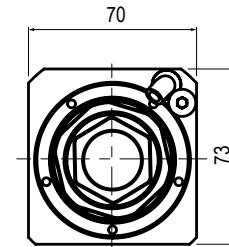
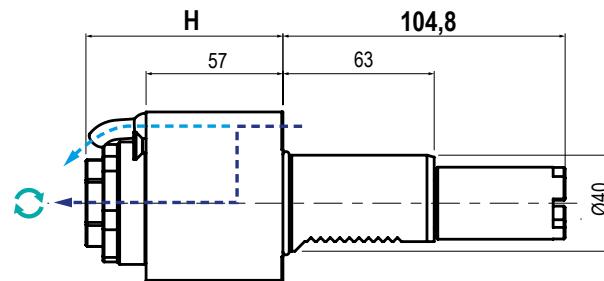
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**HAAS**

**STANDARD VDI40 TURRET**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**L=**  
**104,8**



TIPO - TYPE

Assiale - Axial



USCITA - OUTPUT

Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT

25BAR



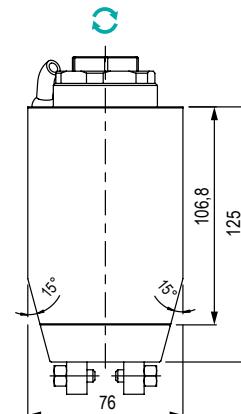
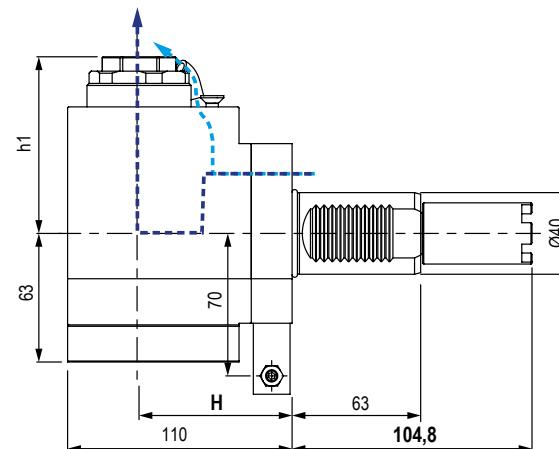
RATIO  
1:1



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.HA.590083	ER-32 - Ø2÷20	NO	75	63	6.000	10	
99.HA.590083B	ER-32 - Ø2÷20	✓	75	63	6.000	10	

5



TIPO - TYPE

Radiale - Radial



USCITA - OUTPUT

Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT

25BAR



RATIO  
1:1



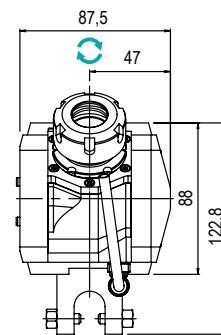
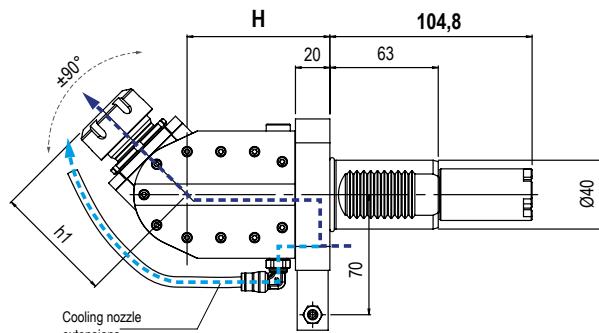
ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.HA.590085	ER-32 - Ø2÷20	NO	75	Max 86,6	63	6.000	10	
99.HA.590085B	ER-32 - Ø2÷20	✓	75	Max 86,6	63	6.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**HAAS**
**STANDARD VDI40 TURRET**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
Orientabile ±90°  
±90° Adjustable

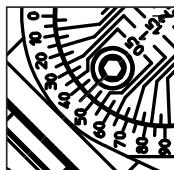
**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**25BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.HA.00U1	ER-25 - Ø1÷16	NO	81	Max 69,3	25	6.000	10	
99.HA.00U1B	ER-25 - Ø1÷16	✓	83	Max 69,3	25	6.000	10	


**DETtaglio - Detail**
**Regolazione angolare decimale in manuale**  
Manual decimal angular adjustment

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**HAAS**

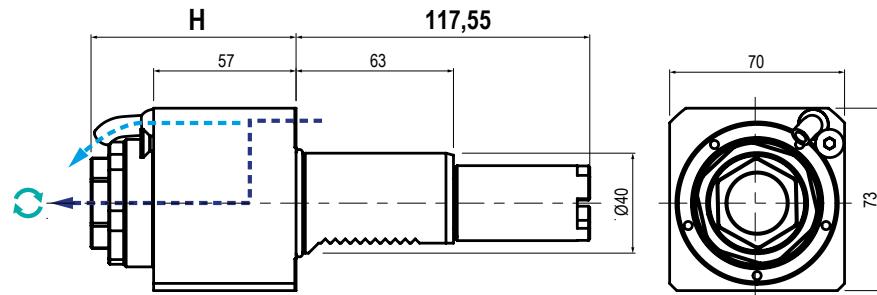
STANDARD VDI40 TURRET

HYBRID TURRET

HAAS TURRET

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**L=**  
**117,55**



TIPO - TYPE  
Assiale - Axial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
25BAR



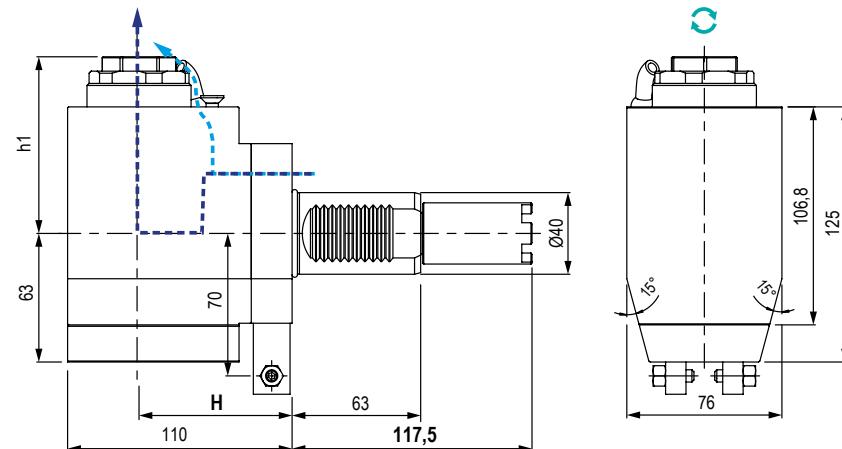
RATIO  
1:1



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.HA.590082	ER-32 - Ø2÷20	NO	75	63	6.000	10	
99.HA.590082B	ER-32 - Ø2÷20	✓	75	63	6.000	10	

5



TIPO - TYPE  
Radiale - Radial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
25BAR



RATIO  
1:1



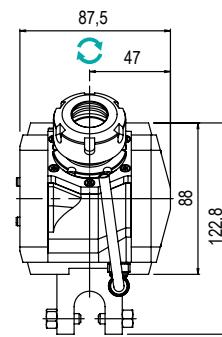
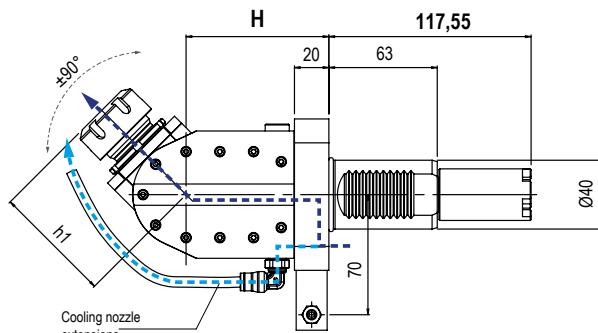
ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.HA.590084	ER-32 - Ø2÷20	NO	75	Max 86,6	63	6.000	10	
99.HA.590084B	ER-32 - Ø2÷20	✓	75	Max 86,6	63	6.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

**HAAS**
**STANDARD VDI40 TURRET**
**HYBRID TURRET**
**HAAS TURRET**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
 Orientabile ±90°  
 ±90° Adjustable

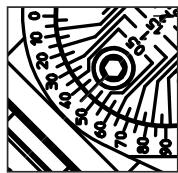
**USCITA - OUTPUT**  
 USCITA - PORTAPINZA  
 Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**25BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
 Uguale al mandrino  
 Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.HA.00U2	ER-25 - Ø1÷16	NO	81	Max 69,3	25	5.000	10	
99.HA.00U2B	ER-25 - Ø1÷16	✓	81	Max 69,3	25	5.000	10	


**DETtaglio - Detail**
**Regolazione angolare decimale in manuale**  
 Manual decimal angular adjustment

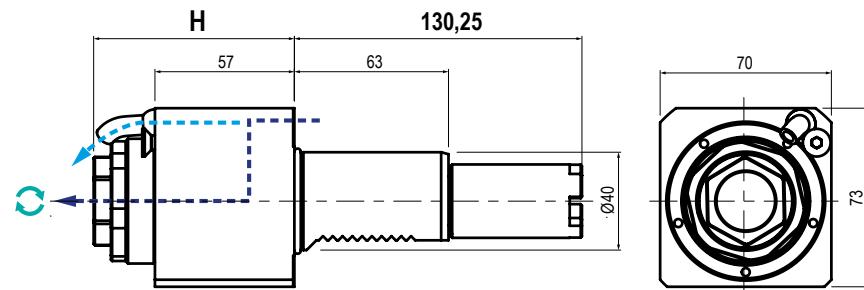
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**HAAS**

**HYBRID TURRET**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**L=**  
**130,25**



TIPO - TYPE  
Assiale - Axial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**25BAR**



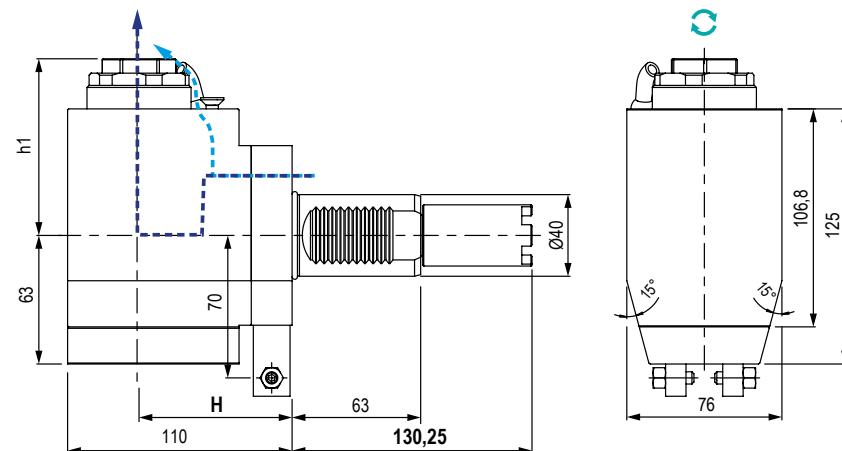
RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.HA.596352	ER-32 - Ø2÷20	NO	75	63	6.000	10	
99.HA.596352B	ER-32 - Ø2÷20	✓	75	63	6.000	10	

5



TIPO - TYPE  
Radiale - Radial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**25BAR**



RATIO  
**1:1**



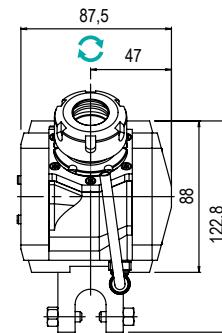
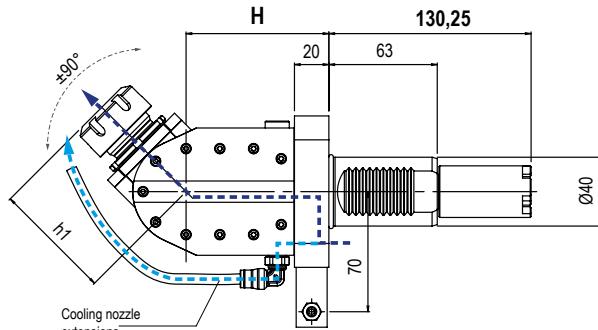
ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Cod.	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.HA.596353	ER-32 - Ø2÷20	NO	75	Max 86,6	63	6.000	10	
99.HA.596353B	ER-32 - Ø2÷20	✓	75	Max 86,6	63	6.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**HAAS**
**HYBRID TURRET**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
Orientabile ±90°  
±90° Adjustable

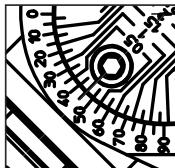
**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**25BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.HA.00U3	ER-25 - Ø1÷16	NO	81	69,3	25	6.000	10	
99.HA.00U3B	ER-25 - Ø1÷16	✓	81	69,3	25	6.000	10	

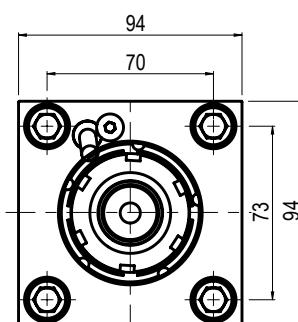
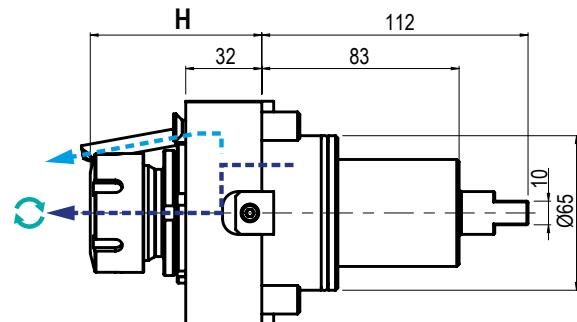

**DETTAGLIO - DETAIL**
**Regolazione angolare decimale in manuale**  
Manual decimal angular adjustment

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

DOOSAN GOODWAY HAAS HARDINGE HWACHEON HYUNDAI WIA SAMSUNG VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

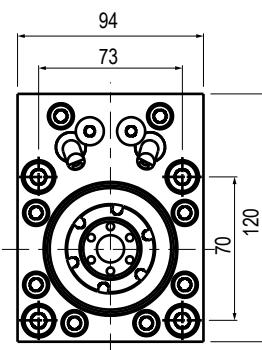
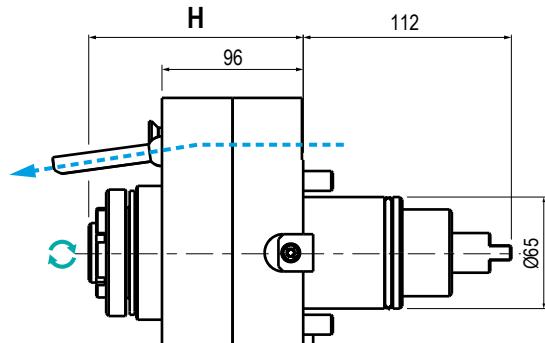
**BMT  
65**



	TIPO - TYPE		USCITA - OUTPUT		REFRIGERANTE COOLANT		RATIO		ROTAZIONE - ROTATION
	Assiale - Axial		Portapinza Collet Chuck		80BAR		1:1		Uguale al mandrino Same as machine spindle

Code	Output	Int Cool	H	Nm	Rpm	kw	
99.DS.A41	ER-32 - Ø2÷20	NO	68,5÷72,2	70	6.000	10	
99.DS.A42	ER-32 - Ø2÷20	✓	68,5÷72,2	70	6.000	10	

5



	TIPO - TYPE		USCITA - OUTPUT		REFRIGERANTE COOLANT		RATIO		ROTAZIONE - ROTATION
	Assiale - Axial		Portapinza Collet Chuck		Esterno External		1:4		Uguale al mandrino Same as machine spindle

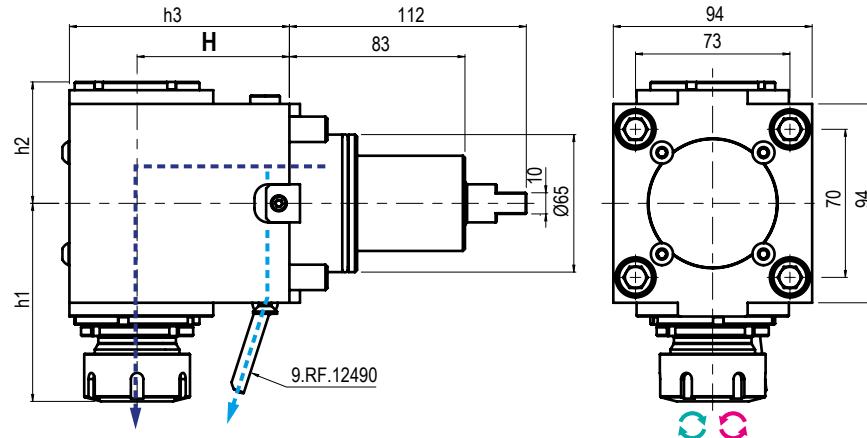
Code	Output	Int Cool	H	Nm	Rpm	kw	
99.DS.A27	ER-20 EF - Ø1÷13	NO	122,5÷126,2	20	24.000	8	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

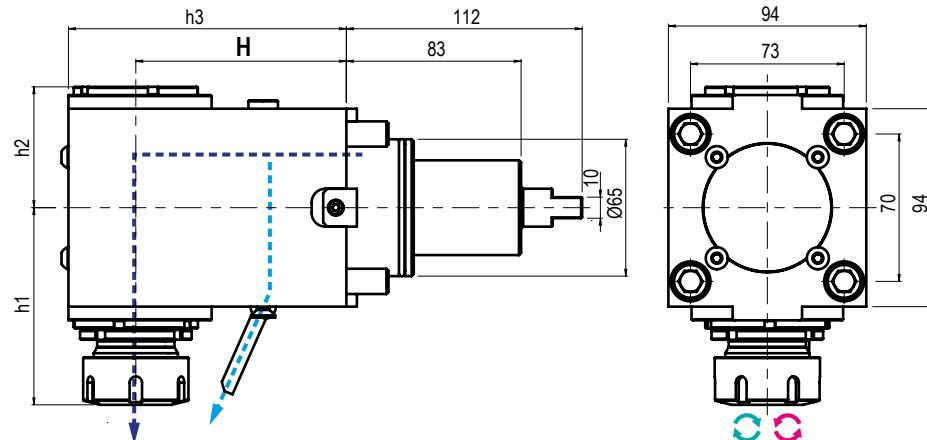
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

[DOOSAN](#) [GOODWAY](#) [HAAS](#) [HARDINGE](#) [HWACHEON](#) [HYUNDAI WIA](#) [SAMSUNG](#) [VICTOR](#)

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT <b>80BAR</b>	RATIO <b>1:1</b>	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle							
Code	*	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A51		ER-32 - Ø2÷20	NO	72	89,9÷93,6	Max 57,4	104	70	6.000	10	
99.DS.A51C											
99.DS.A52		ER-32 - Ø2÷20	✓	72	89,9÷93,6	Max 57,4	104	70	6.000	10	
99.DS.A52C											

**NEW**


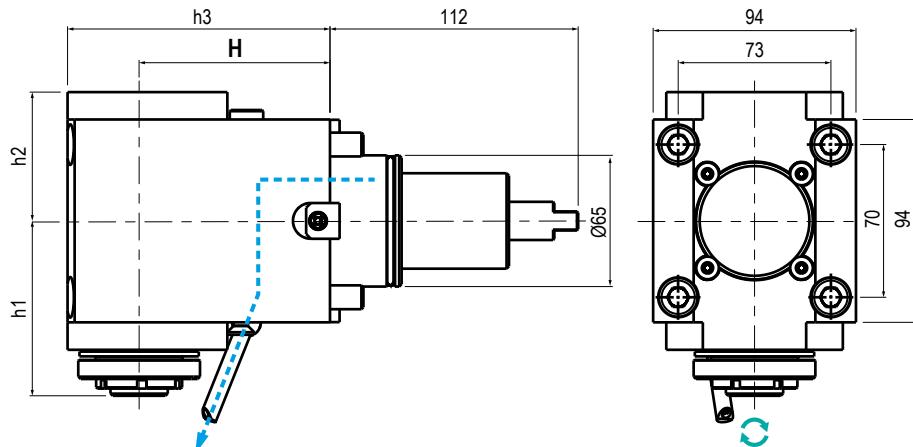
TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT <b>80BAR</b>	RATIO <b>1:1</b>	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle							
Code	*	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.DS.A73		ER-32 - Ø2÷20	NO	100	89,9÷93,6	57,4	132	70	6.000	10	
99.DS.A73C											
99.DS.A74		ER-32 - Ø2÷20	✓	100	89,9÷93,6	63,4	132	70	6.000	10	
99.DS.A74C											

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

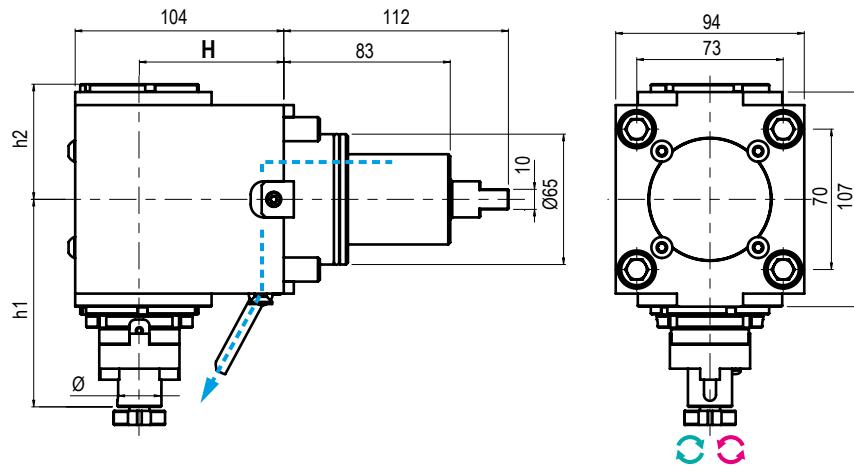
DOOSAN GOODWAY HAAS HARDINGE HWACHEON HYUNDAI WIA SAMSUNG VICTOR

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Pinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:2 1:4	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
----------------------------------	--	--	---------------------	---

Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw
99.DS.A29	ER-20 EF- Ø1÷13	NO	72	89,9÷93,6	57,4	104	35	12.000	8
99.DS.A30	ER-20 EF- Ø1÷13	NO	72	89,9÷93,6	57,4	112	20	24.000	8

**NEW**


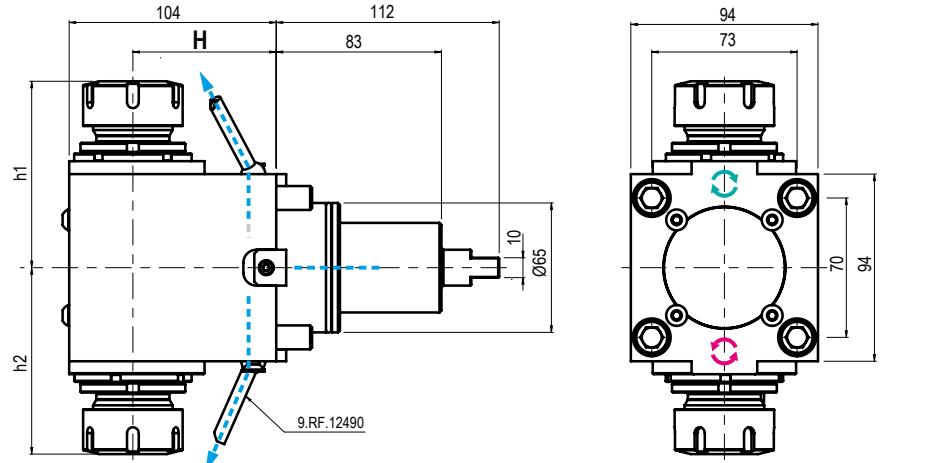
TIPO - TYPE Radiale Radial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale / opposto al mandrino Same / opposite as m. spindle
----------------------------------	--	--	--------------	---

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw
99.DS.A62	Ø22	NO	72	103,5	57,4	70	6.000	10
99.DS.A111	Ø22	NO	100	103,5	57,4	70	6.000	10

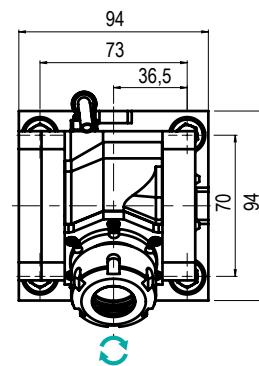
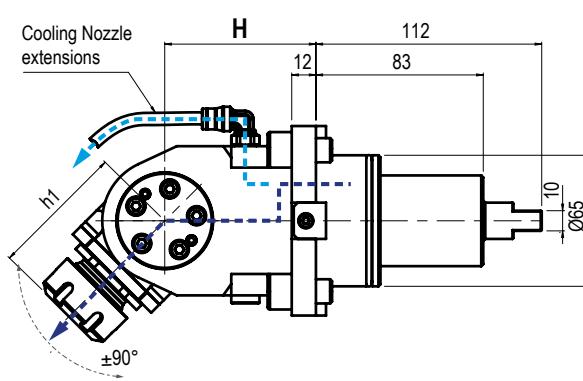
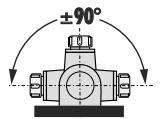
\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**DOOSAN** **GOODWAY** **HAAS** **HARDINGE** **HWACHEON** **HYUNDAI WIA** **SAMSUNG** **VICTOR**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE 	Doppio Radiale Double Radial	USCITA - OUTPUT 	Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 	ROTAZIONE - ROTATION 	Uguale ed opposto al mandrino Same and opposite as m. spindle		
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.DS.A31	ER-32-32 - Ø2÷20	NO	72	93÷93,6	Max 93,6	70	6.000	10	
99.DS.A78	ER-32-32 - Ø2÷20	NO	100	93÷93,6	93÷93,6	70	6.000	10	

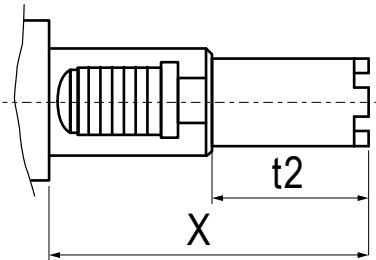


TIPO - TYPE 	Orientabile ±90° ±90° Adjustable	USCITA - OUTPUT 	Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 	ROTAZIONE - ROTATION 	Uguale al mandrino Same as machine spindle	
Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.DS.A64	ER-25 - Ø1÷16	NO	75	63,5÷67,2	25	6.000	4	
99.DS.A65	ER-25 - Ø1÷16	✓	75	63,5÷67,2	25	6.000	4	

\* N.B.: Rotazione uguale al mandrino - Rotation same as machine spindle      Rotazione opposta al mandrino - Rotation opposite as machine spindle

## ACCESSORI HAAS

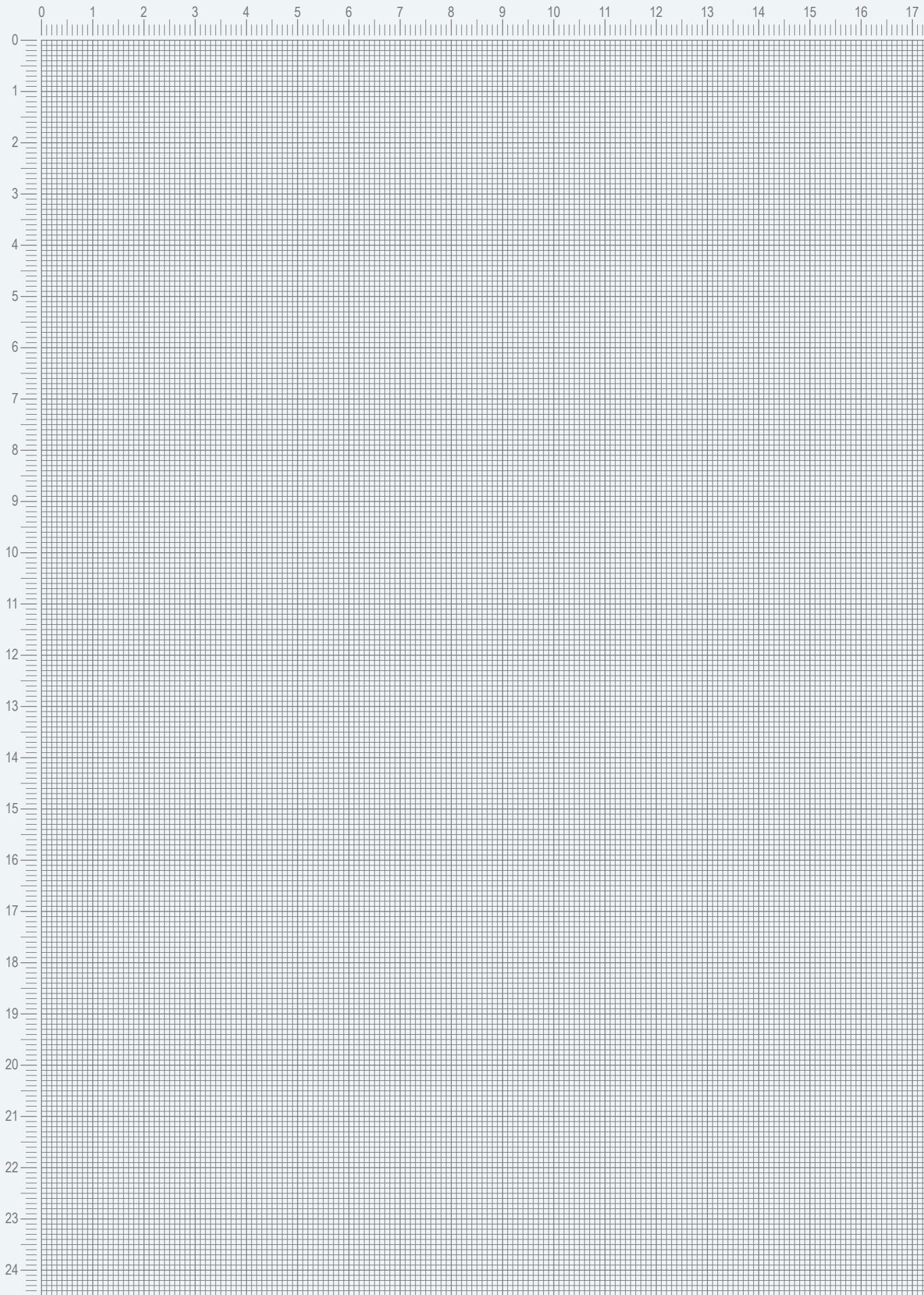
## HAAS ACCESSORIES



Presa di moto intercambiabile per le varie tipologie di torrette HAAS

Interchangeable couplings for the different HAAS turret

Code	t2	X	
99.HA.00001	41,85	104,85	
99.HA.00002	54,55	117,55	
99.HA.00003	67,25	130,25	



# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

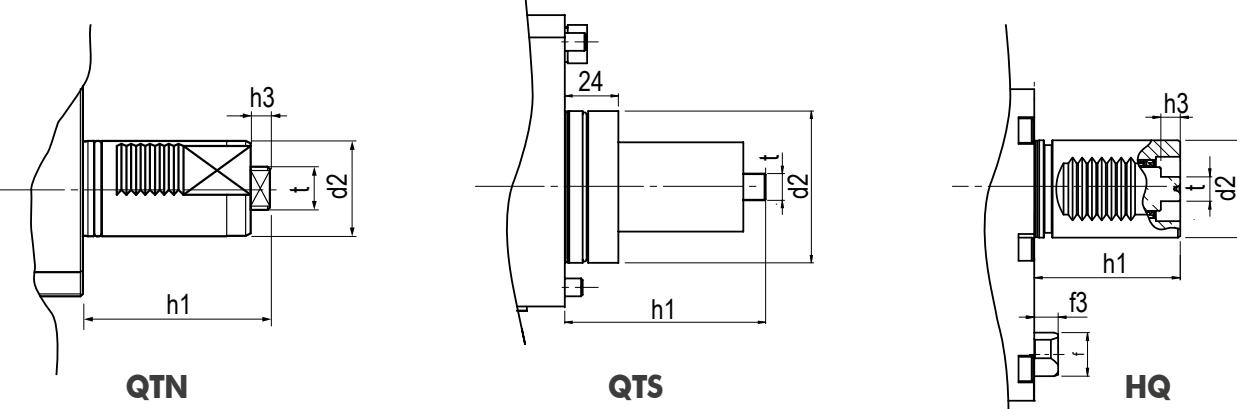
NUOVI MODELLI  
NEW MODELS

**MAZAK**  
**QTN1 / QTN2 / QTN3 / QTS1 / HQ**



Uscita - Output  
**C. ISO26623**

DISPONIBILI SU RICHIESTA  
AVAILABLE ON REQUEST



Type	d2	h1	h3	t	f	f3
QTN1	Ø40	61	1	10	-	-
QTN2	Ø40	70	8	18	-	-
QTN3	Ø50	75	10	12	-	-
QTS	Ø68	90	-	12	-	-
HQ	Ø40	60	8	10	Ø20	9,8



**DOTAZIONE STANDARD**  
STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / O-ring  
Art.179CH shaft lock wrench / cooling nozzle Art.183 / nozzle lock screws / O-ring



**CAMBI RAPIDI MODULARI** Vedi pag. 5.98  
MODULAR QUICK CHANGE See page 5.98

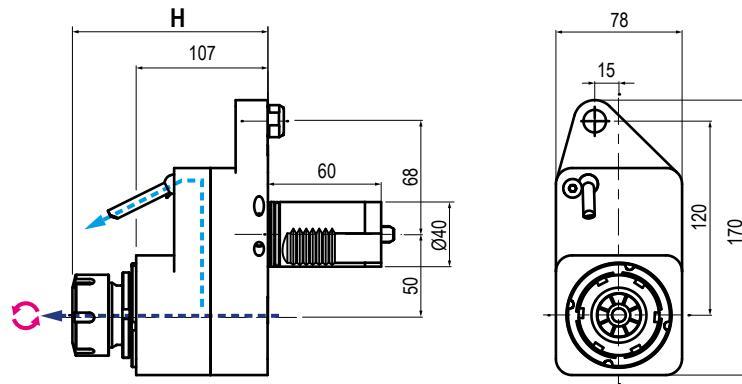
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499). Modular toolholder system for the fitting of toolholders to a spindle unit with ER collets (DIN6499) outputs.

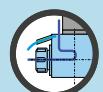
**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

**QTN 100**  
**SQT10 - 100/150** 12 Station Turret

**QTN 200/250**  
**SQT15/18 - 200/250** 16 Station Turret

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

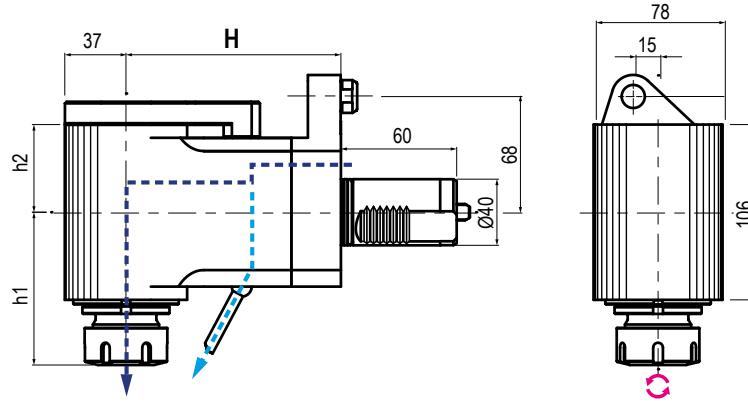
**QTN  
1**

**TIPO - TYPE**  
 Disassato  
 Offset-Axis

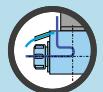
**USCITA - OUTPUT**  
 USCITA -  
 Portapinza  
 Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**80BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
 Opposto al mandrino  
 Opposite to machine spindle

Code	OEM Ref	Output	Int Cool.	H	Nm	Rpm	
99.MZ.A40	- 53548030200 - 53108020100	ER-25 - Ø1÷16	NO	116,2 ÷ 120	50	6.000	
99.MZ.A41	-	ER-25 - Ø1÷16	✓	116,2 ÷ 120	63	6.000	

**5**

**TIPO - TYPE**  
 Radiale - Radial

**USCITA - OUTPUT**  
 USCITA -  
 Portapinza  
 Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**80BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
 Opposto al mandrino  
 Opposite to machine spindle

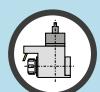
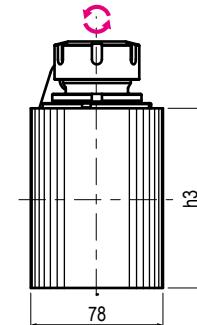
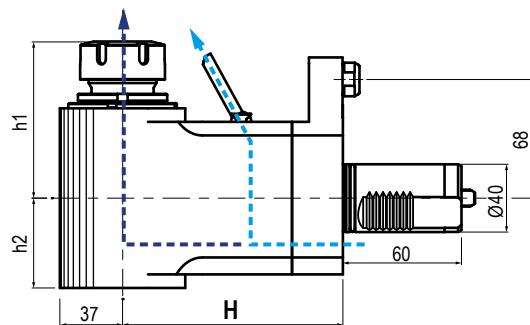
Code	OEM Ref	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A46	- 53248030303 - 535280110102 - 53108020200	ER-25 - Ø1÷16	NO	100	90,1 ÷ 93,8	53	50	6.000	
99.MZ.A47	-	ER-25 - Ø1÷16	✓	100	90,1 ÷ 93,8	53	50	6.000	

**MODELLI DI TORNIO COMPATIBILI**  
 COMPATIBLE LATHE TYPES

**QTN 100**  
**SQT10 - 100/150** 12 Station Turret

**QTN 200/250**  
**SQT15/18 - 200/250** 16 Station Turret

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
 Radiale Rovesciato  
 Radial Upside Down

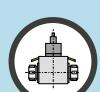
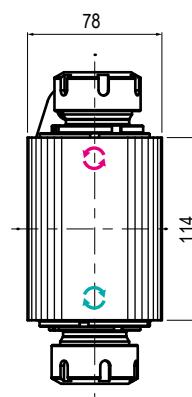
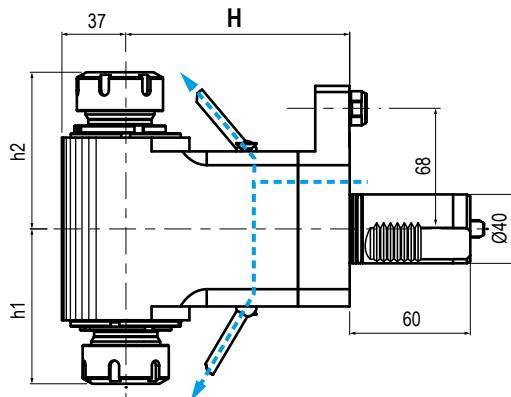
**USCITA - OUTPUT**  
 Portapinza  
 Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**80BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
 Opposto al mandrino  
 Opposite to machine spindle

Code	OEM Ref	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	
99.MZ.A48	-53548010301	ER-25 - Ø1÷16	NO	100	90,1 ÷ 93,8	53	110	63	6.000	
99.MZ.A49	-	ER-25 - Ø1÷16	✓	100	90,1 ÷ 93,8	53	124	63	6.000	


**TIPO - TYPE**  
 Radiale Doppio  
 Double Radial

**USCITA - OUTPUT**  
 Portapinza  
 Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
**External**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
 Uguale ed opposto al mandrino  
 Same and opposite as m. spindle

Code	OEM Ref	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A55	-	ER-25-25 - Ø1÷16	NO	100	90,1 ÷ 93,8	90,1 ÷ 93,8	63	6.000	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

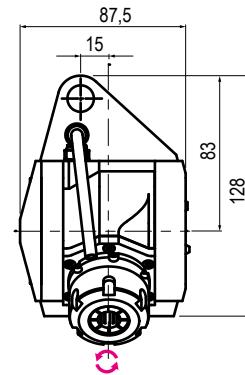
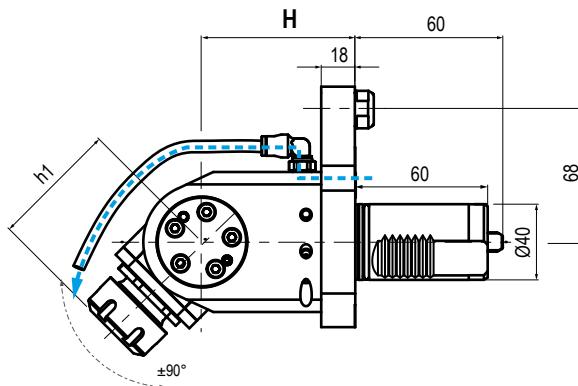


**QTN 100**  
**SQT10 - 100/150** 12 Station Turret

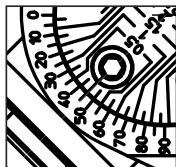


**QTN 200/250**  
**SQT15/18 - 200/250** 16 Station Turret

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



	TIPO - TYPE Orientabile ±90° ±90° Adjustable		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT Esterno External		RATIO 1:1		ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
<b>Code</b>	<b>OEM Ref.</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>	<b>h1</b>	<b>Nm</b>	<b>Rpm</b>		
99.MZ.A56	-	ER-20 - Ø1÷13	NO	85	Max 67,5	63	6.000		



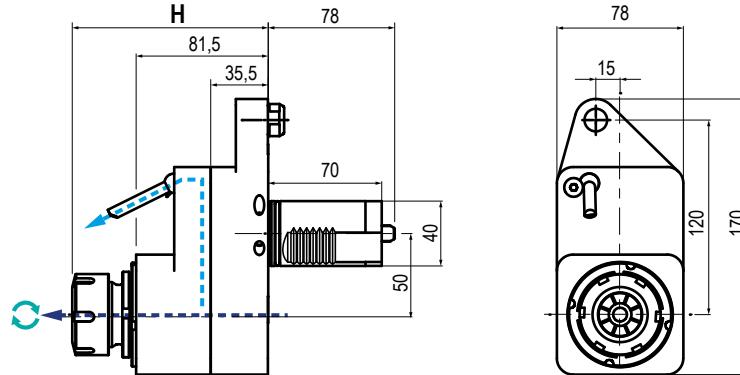
### DETtaglio - DETAIL

**Regolazione angolare decimale in manuale**  
Manual decimal angular adjustment

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QTN 200/250**  
**SQT 15/18 - 200/250 12 Station Turret**

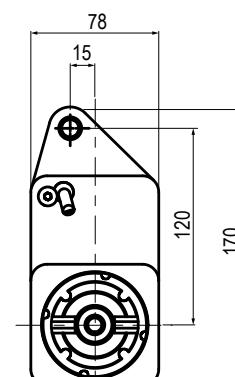
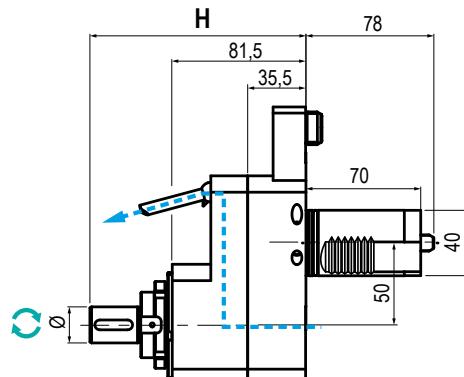
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**QTN  
2**
**TIPO - TYPE**  
**Disassato**  
Offset-Axis

**USCITA - OUTPUT**  
**Portapinza**  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**80BAR**
**RATIO**  
**1:1**
**ROTAZIONE - ROTATION**  
**Uguale al mandrino**  
Same as machine spindle

Code	OEM Ref.	Output	Int Cool.	H	Nm	Rpm	
99.MZ.A58	-53208020102	ER32 - Ø2÷20	NO	116,2÷120	80	6.000	
99.MZ.A59	-	ER32 - Ø2÷20	✓	116,2÷120	80	6.000	

**NEW**
**5**

**TIPO - TYPE**  
**Disassato**  
Offset-Axis

**USCITA - OUTPUT**  
**Porta Fresa**  
Shell End Milling Cutter

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
External

**RATIO**  
**1:1**
**ROTAZIONE - ROTATION**  
**Uguale al mandrino**  
Same as machine spindle

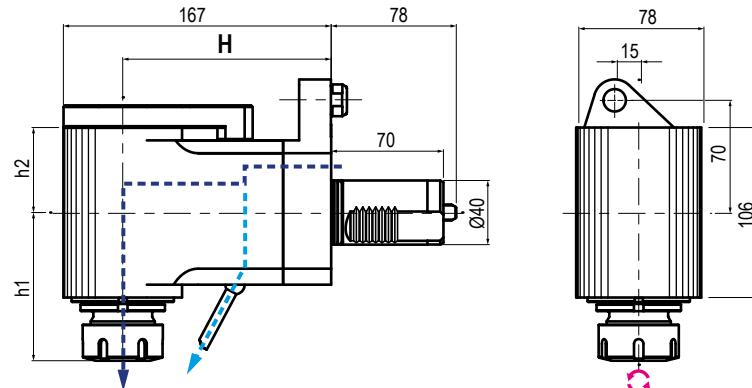
Code	Output	Int Cool.	H	Nm	Rpm	
99.MZ.A69	Ø22	NO	132	80	6.000	

\* **N.B:** Motorizzati QTN 2, per torni QTN 200/250, SOLO su torretta a 12 stazioni - QTN 2 Driven tools, for QTN 200/250 lathes ONLY on 12 station turret

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**

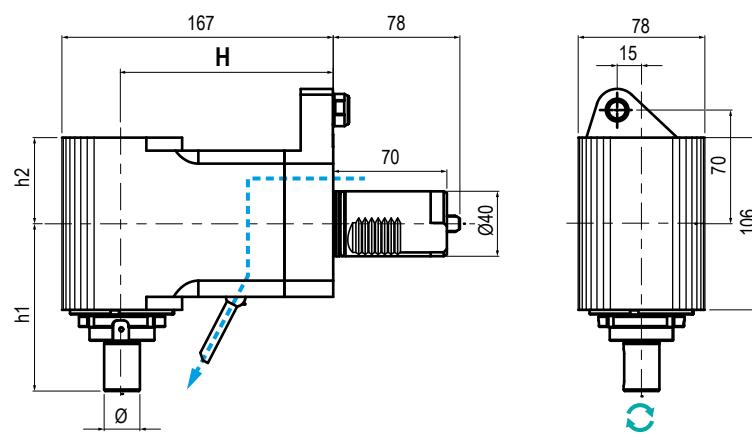
**QTN 200/250**  
**SQT 15/18 - 200/250 12 Station Turret**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE 	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 100BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
-----------------	--	--------------------------------	--------------	--

Code	OEM Ref.	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A65	-53628010701 -53208020202	ER32 - Ø2÷20	NO	130	90,1÷93,8	53	80	6.000	
99.MZ.A66	-	ER32 - Ø2÷20	✓	130	90,1÷93,8	53	80	6.000	

**NEW**


TIPO - TYPE 	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
-----------------	---	--	--------------	---

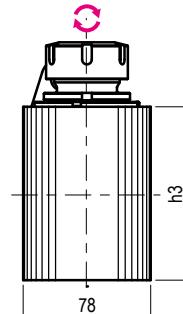
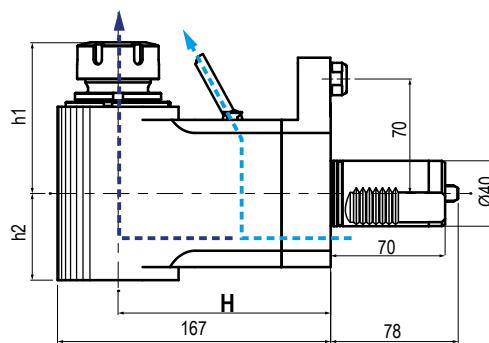
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A62	Ø	NO	130	103	-	80	6.000	

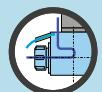
\* **N.B:** Motorizzati QTN 2, per torni QTN 200/250, SOLO su torretta a 12 stazioni - QTN 2 Driven tools, for QTN 200/250 lathes ONLY on 12 station turret

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QTN 200/250**  
**SQT 15/18 - 200/250 12 Station Turret**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

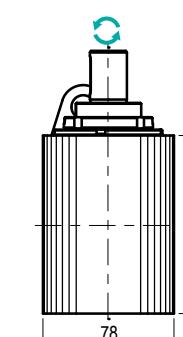
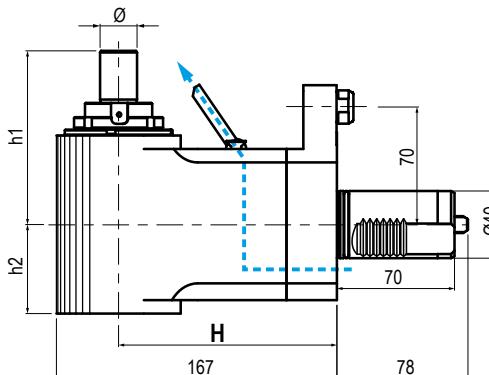

**TIPO - TYPE**  
Radiale Rovesciato  
Radial Upside Down

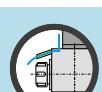
**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**80BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool	H	h1	h2	h3	Nm	Rpm	
99.MZ.A67	ER-32- Ø2÷20	NO	130	90,1÷93,8	53	110	80	6.000	
99.MZ.A68	ER-32- Ø2÷20	✓	130	90,1÷93,8	53	124	80	6.000	


**TIPO - TYPE**  
Radiale Rovesciato  
Radial Upside Down

**USCITA - OUTPUT**  
Porta Fresa  
Shell End Milling Cutter

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
External

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

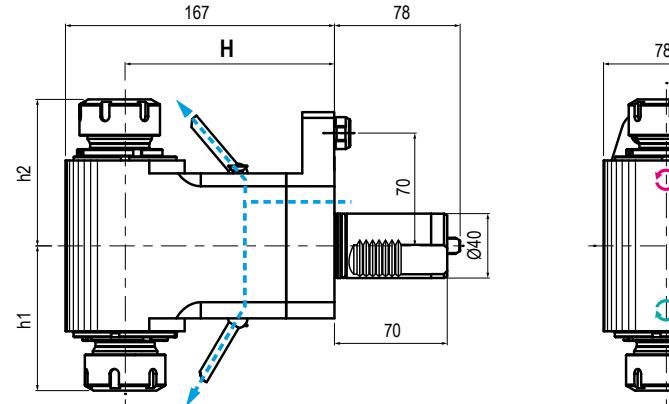
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A63	Ø	NO	130	53	103	80	6.000	

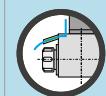
\* N.B.: Motorizzati QTN 2, per torni QTN 200/250, SOLO su torretta a 12 stazioni - QTN 2 Driven tools, for QTN 200/250 lathes ONLY on 12 station turret

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**

**QTN 200/250**  
**SQT 15/18 - 200/250 12 Station Turret**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

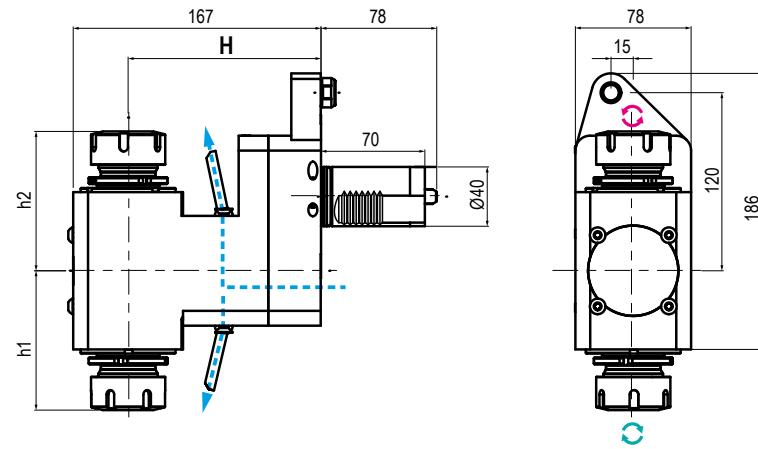

**TIPO - TYPE**  
**Radiale Doppio**  
**Double Radial**

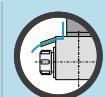
**USCITA - OUTPUT**  
**Portapinza**  
**Collet Chuck**

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
**External**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Uguale ed opposto al mandrino**  
**Same and opposite as m. spindle**

Code	OEM Ref.	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A73	-53208011600 -53628011000	ER-32-32 - Ø2÷20	NO	130	90,1÷93,8	90,1÷93,8	80	6.000	

**5**

**TIPO - TYPE**  
**Doppio Arretrato**  
**Double Rear Offset**

**USCITA - OUTPUT**  
**Portapinza**  
**Collet Chuck**

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
**External**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
**Uguale ed opposto al mandrino**  
**Same and opposite as m. spindle**

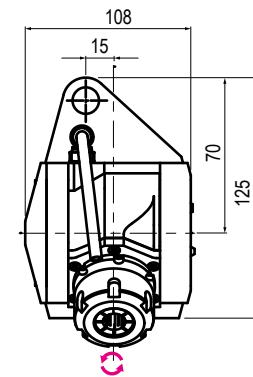
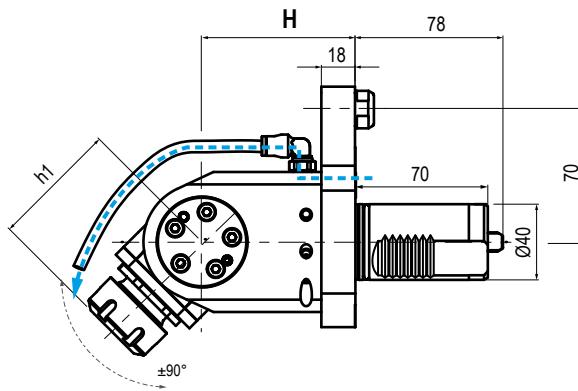
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A70	ER-32 - Ø2÷20	NO	130	90,1÷93,8	90,1÷93,8	80	6.000	

\* N.B.: Motorizzati QTN 2, per torni QTN 200/250, SOLO su torretta a 12 stazioni - QTN 2 Driven tools, for QTN 200/250 lathes ONLY on 12 station turret

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QTN 200/250**  
**SQT 15/18 - 200/250 12 Station Turret**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
Orientabile ±90°  
±90° Adjustable

**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**80BAR**

**RATIO**  
**1:1**

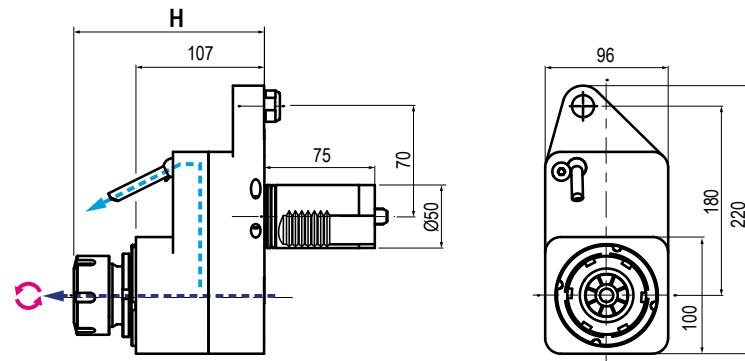
**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	
99.MZ.A74	ER-25 - Ø1÷16	NO	85	80	6.000	
99.MZ.A64	ER-25 - Ø1÷16	✓	85	80	6.000	

\* **N.B:** Motorizzati QTN 2, per torni QTN 200/250, SOLO su torretta a 12 stazioni - QTN 2 Driven tools, for QTN 200/250 lathes ONLY on 12 station turret

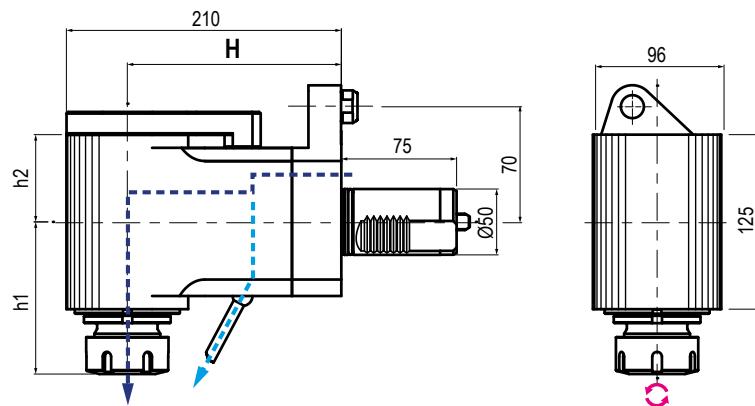
**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**QTN 300 / 350 / 400 / 450 - SQT 28/30 - 300**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**QTN  
3**


TIPO - TYPE Disassato Offset-Axis	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	OEM Ref.	Output	Int Cool.	H	Nm	Rpm	
99.MZ.A71	-	ER-40 - Ø3÷30	NO	145	100	4.000	
99.MZ.A72	-	ER-40 - Ø3÷30	✓	145	100	4.000	
99.MZ.A76	-53308020604 -53828002002	ISO-40	NO	92,5	100	4.000	
99.MZ.A79	-	ISO-40	✓	125	100	4.000	

**5**


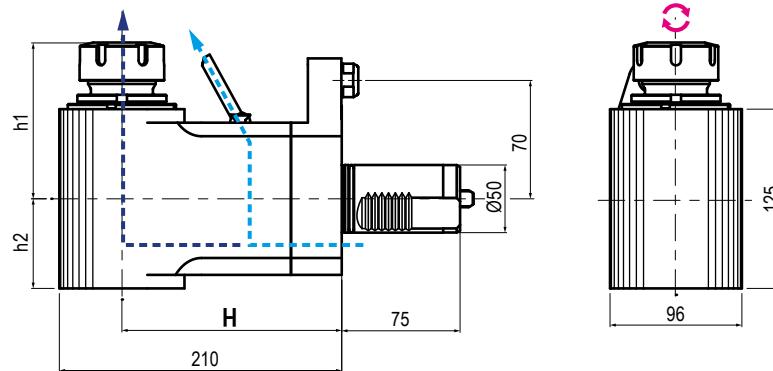
TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	OEM Ref.	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A75	-	ER-40 - Ø3÷30	NO	160	-	86	100	4.000	
99.MZ.A81	-	ER-40 - Ø3÷30	✓	160	-	115	100	4.000	
99.MZ.A77	-53308020101	ISO-40	NO	160	73	86	100	4.000	
99.MZ.A78	-	ISO-40	✓	160	73	115	100	4.000	

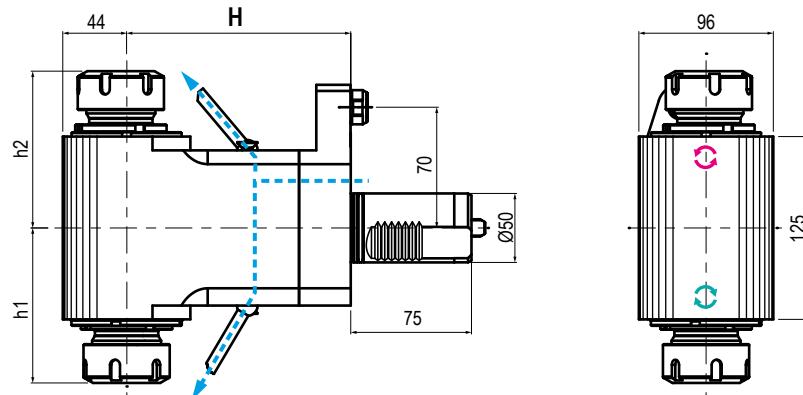
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QTN 300 / 350 / 400 / 450 - SQT 28/30 - 300**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



 TIPO - TYPE Radiale Rovesciato Radial Upside Down	 USCITA - OUTPUT Portapinza Collet Chuck	 REFRIGERANTE COOLANT <b>80BAR</b>	 RATIO <b>1:1</b>	 ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
<b>Code</b>	<b>OEM Ref.</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>
99.MZ.A82	-	ER-40 - Ø3÷30	NO	160
99.MZ.A83	-	ER-40 - Ø3÷30	✓	160
				<b>Nm</b>
				100
				4.000
				<b>Rpm</b>

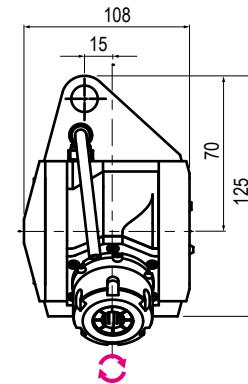
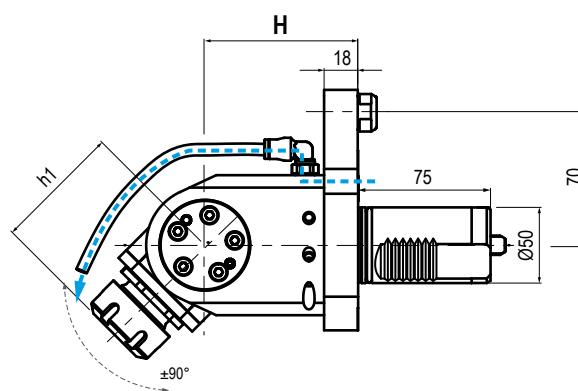


 TIPO - TYPE Radiale Doppio Double Radial	 USCITA - OUTPUT Portapinza Collet Chuck	 REFRIGERANTE COOLANT Esterno External	 RATIO <b>1:1</b>	 ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle
<b>Cod.</b>	<b>OEM Ref.</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>
99.MZ.A84	-	ER-40-40 - Ø3÷30	NO	160
				<b>Nm</b>
				100
				<b>Rpm</b>

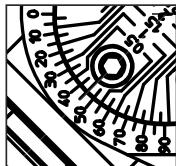
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QTN 300 / 350 / 400 / 450 - SQT 28/30 - 300**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



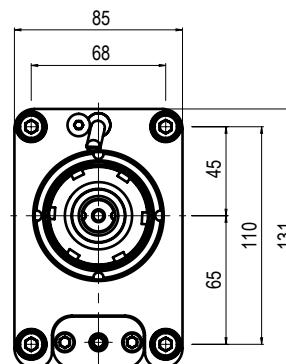
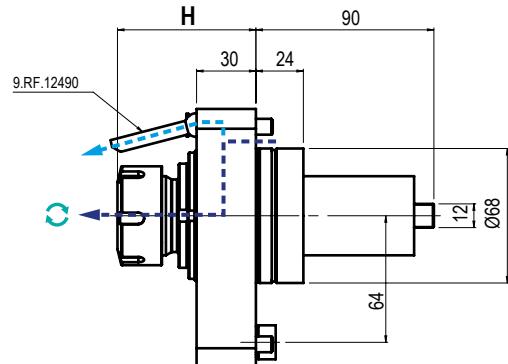
	TIPO - TYPE Orientabile ±90° ±90° Adjustable		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT Esterno External		RATIO 1:1		ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
Code	OEM Ref.	Output	Int Cool.	H	h1	Nm	Rpm		
99.MZ.A80	-	ER-32 - Ø2÷20	NO	85	67,5	100	4.000		


**DETtaglio - DETAIL**
**Regolazione angolare decimale in manuale**  
Manual decimal angular adjustment

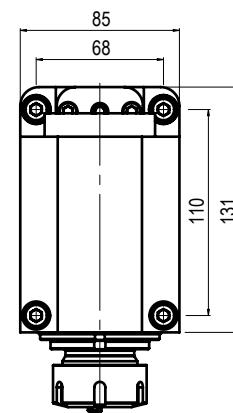
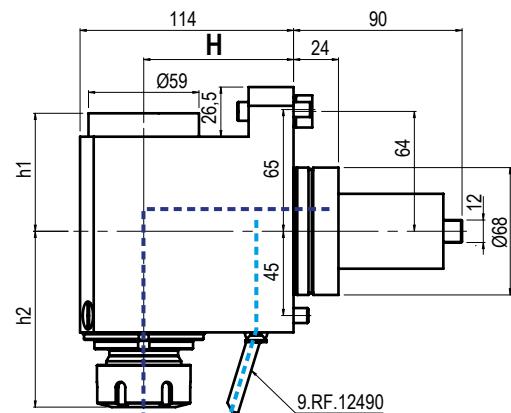
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT / QTS 100 / 250M**  
**MY / MS / MSY**
**QT 200 / 250 M**  
**MY / MS / MSY**
**QTC / QTU 100 - 350M**  
**MY / MS / MSY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**QTS**  
**1**
TIPO - TYPE  
Assiale - AxialUSCITA - OUTPUT  
Portapinza  
Collet ChuckREFRIGERANTE  
COOLANT  
80BARRATIO  
1:1ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MZ.A03	ER-32 - Ø2÷20	NO	70	60	6.000	10	
99.MZ.A06	ER-32 - Ø2÷20	✓	70	60	6.000	10	

TIPO - TYPE  
Radiale - RadialUSCITA - OUTPUT  
Portapinza  
Collet ChuckREFRIGERANTE  
COOLANT  
80BARRATIO  
1:1ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MZ.A09	ER-32 - Ø2÷20	NO	80	93,9	50,5	60	6.000	10	
99.MZ.A10	ER-32 - Ø2÷20	✓	80	93,9	63	60	6.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

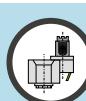
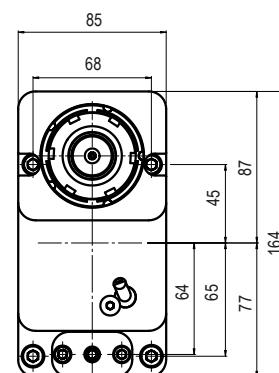
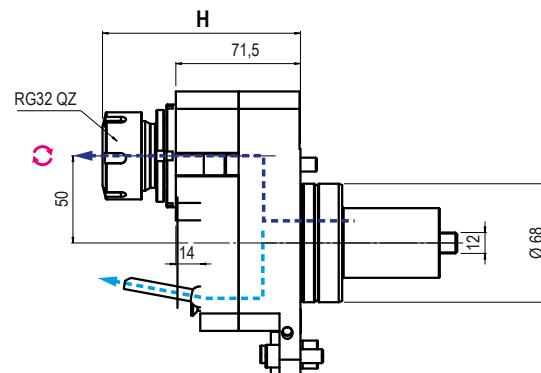
**QT / QTS 100 / 250M**  
**MY / MS / MSY**

**QT 200 / 250 M**  
**MY / MS / MSY**

**QTC / QTU 100 - 350M**  
**MY / MS / MSY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

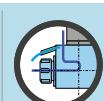
**NEW**



**TIPO - TYPE**  
Disassato  
Offset-Axis



**USCITA - OUTPUT**  
Portapinza  
Collet Chuck



**REFRIGERANTE**  
**COOLANT**  
**80BAR**



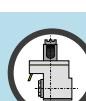
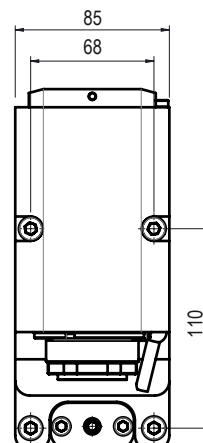
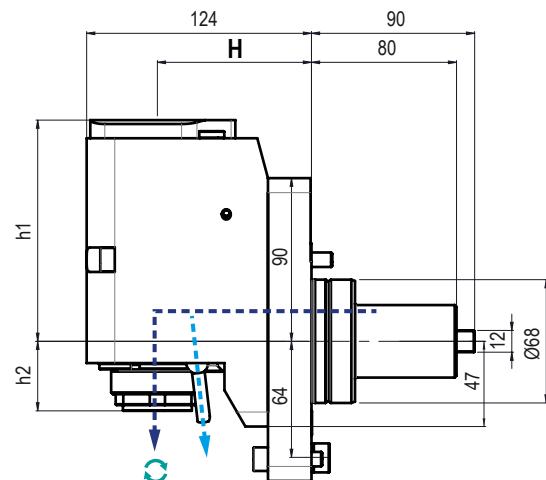
**RATIO**  
**1:1**



**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

<b>Code</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>	<b>Nm</b>	<b>Rpm</b>	<b>kw</b>
99.MZ.A04	ER-32 - Ø2÷20	NO	MAX 113,5	60	6.000	10
99.MZ.A05	ER-32 - Ø2÷20	✓	MAX 113,5	60	6.000	10

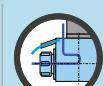
**NEW**



**TIPO - TYPE**  
Arretrato  
Rear Offset



**USCITA - OUTPUT**  
Portapinza  
Collet Chuck



**REFRIGERANTE**  
**COOLANT**  
**80BAR**



**RATIO**  
**1:1**

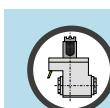
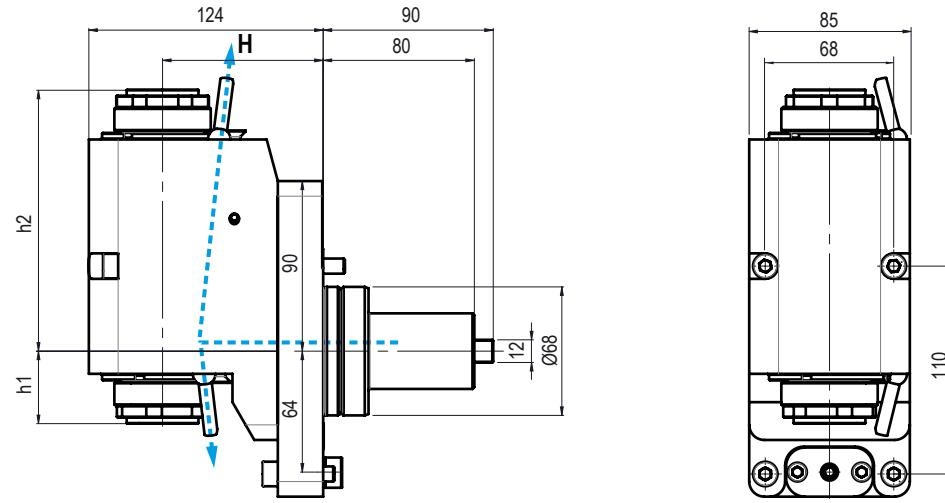


**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

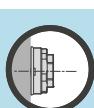
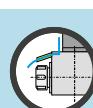
<b>Code</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>	<b>h1</b>	<b>h2</b>	<b>Nm</b>	<b>Rpm</b>	<b>kw</b>
99.MZ.A17	ER-32 - Ø2÷20	NO	85	122	Max 38,4	60	6.000	10
99.MZ.A18	ER-32 - Ø2÷20	✓	85	122	Max 38,4	60	6.000	10

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**QT / QTS 100 / 250M**  
**MY / MS / MSY**
**QT 200 / 250 M**  
**MY / MS / MSY**
**QTC / QTU 100 - 350M**  
**MY / MS / MSY**

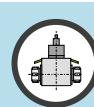
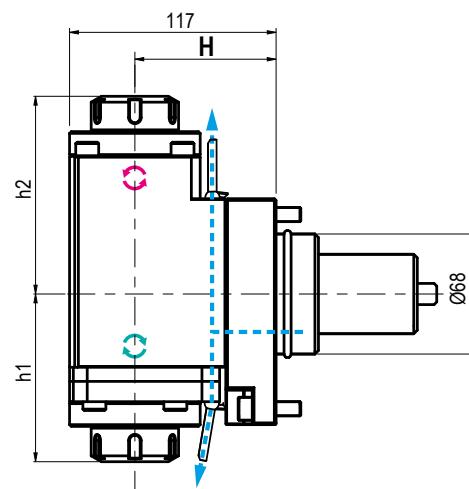
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


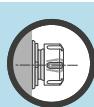
TIPO - TYPE

Arretato doppio  
Rear double OffsetUSCITA - OUTPUT  
Portapinza  
Collet ChuckREFRIGERANTE  
COOLANT  
Esterno  
ExternalRATIO  
**1:1**ROTAZIONE - ROTATION  
Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MZ.A13	ER-32 - Ø2÷20	NO	85	MAX 138,1	Max 38,4	60	6.000	10	



TIPO - TYPE

Radiale Doppio  
Double RadialUSCITA - OUTPUT  
Portapinza  
Collet ChuckREFRIGERANTE  
COOLANT  
Esterno  
ExternalRATIO  
**1:1**ROTAZIONE - ROTATION  
Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	
99.MZ.A16	ER-32-32 - Ø2÷20	NO	80	95	112	70	6.000	

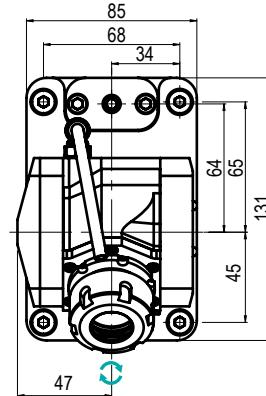
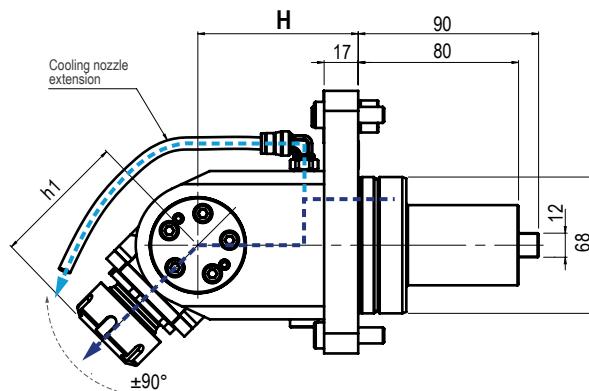
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT / QTS 100 / 250M**  
**MY / MS / MSY**

**QT 200 / 250 M**  
**MY / MS / MSY**

**QTC / QTU 100 - 350M**  
**MY / MS / MSY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



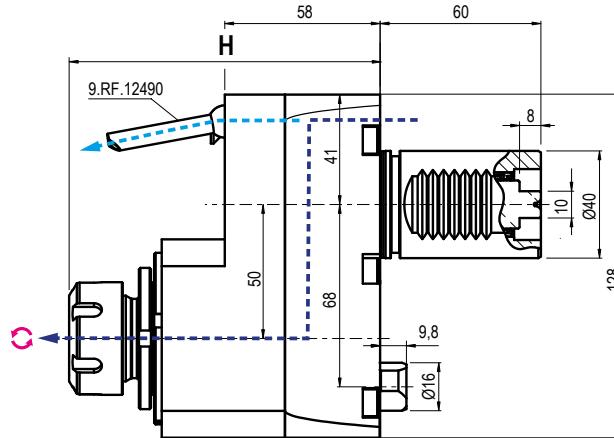
	TIPO - TYPE Orientabile ±90° ±90° Adjustable		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT 80BAR		RATIO 1:1		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MZ.A14	ER-25 - Ø1÷16	NO	80	67,2	30	6.000	4	
99.MZ.A15	ER-25 - Ø1÷16	✓	80	67,2	30	6.000	4	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

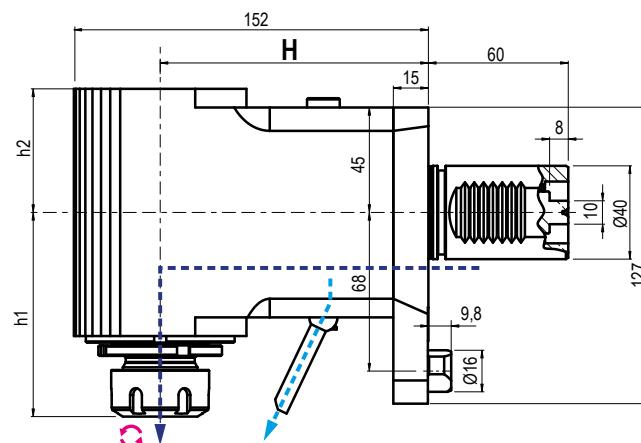
**HQ 150MY / 200MSY**  
**MULTIPLEX 610 / 620 / 625 / 6200 / 6250** 16 Station Turret

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE Disassato Offset-Axis	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MZ.A30	ER-25 - Ø1÷16	NO	Max 116	50	6.000	8	
99.MZ.A31	ER-25 - Ø1÷16	✓	Max 116	50	6.000	8	

**NEW**
**5**


TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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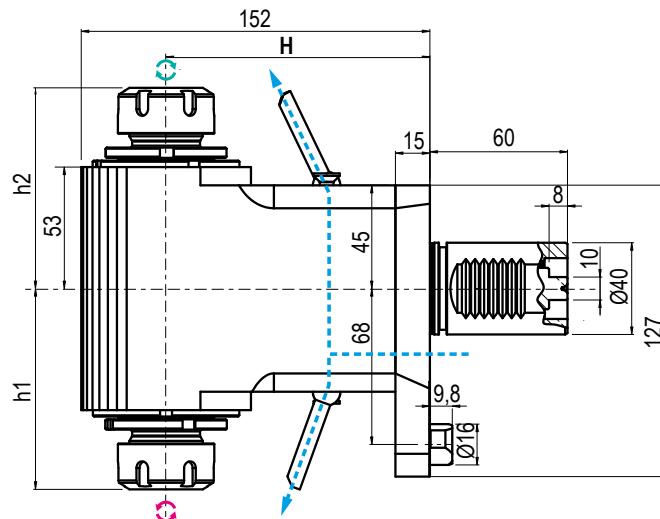
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MZ.A36	ER-25 - Ø1÷16	NO	115	87,5	53	50	6.000	8	
99.MZ.A37	ER-25 - Ø1÷16	✓	115	87,5	53	50	6.000	8	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES



**HQ 150MY / 200MSY**  
**MULTIPLEX 610 / 620 / 625 / 6200 / 6250** 16 Station Turret

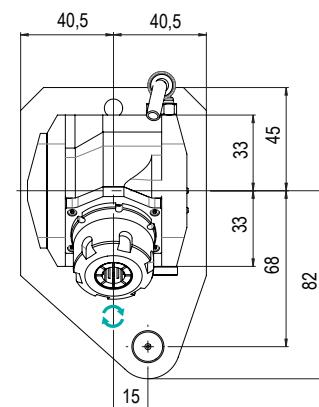
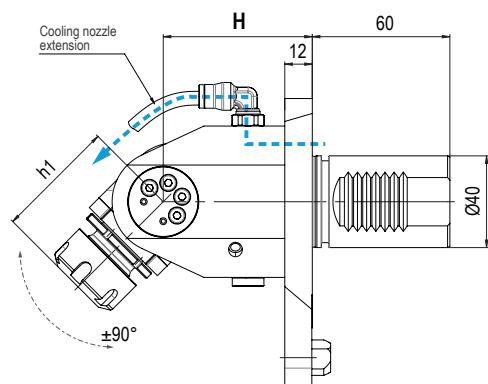
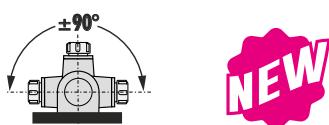
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE Radiale Doppio Double Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle
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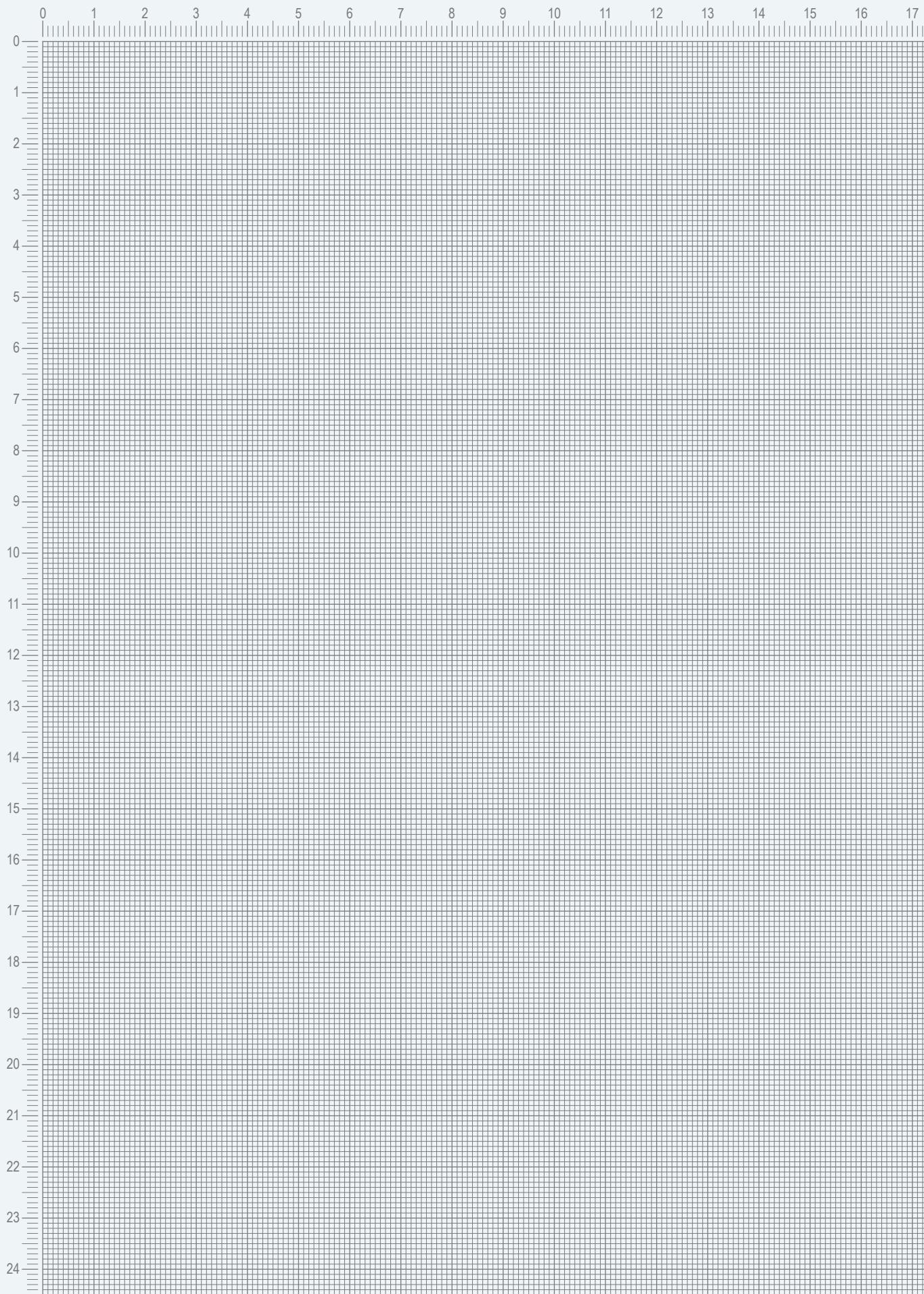
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MZ.A35	ER-25-25 - Ø1÷16	NO	115	Max 87,5	Max 87,5	50	6.000	8	

5



TIPO - TYPE Orientabile ± 90° ± 90° Adjustable	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MZ.A38	ER-20 - Ø1÷13	NO	65	67,2	15	6.000	3	



# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

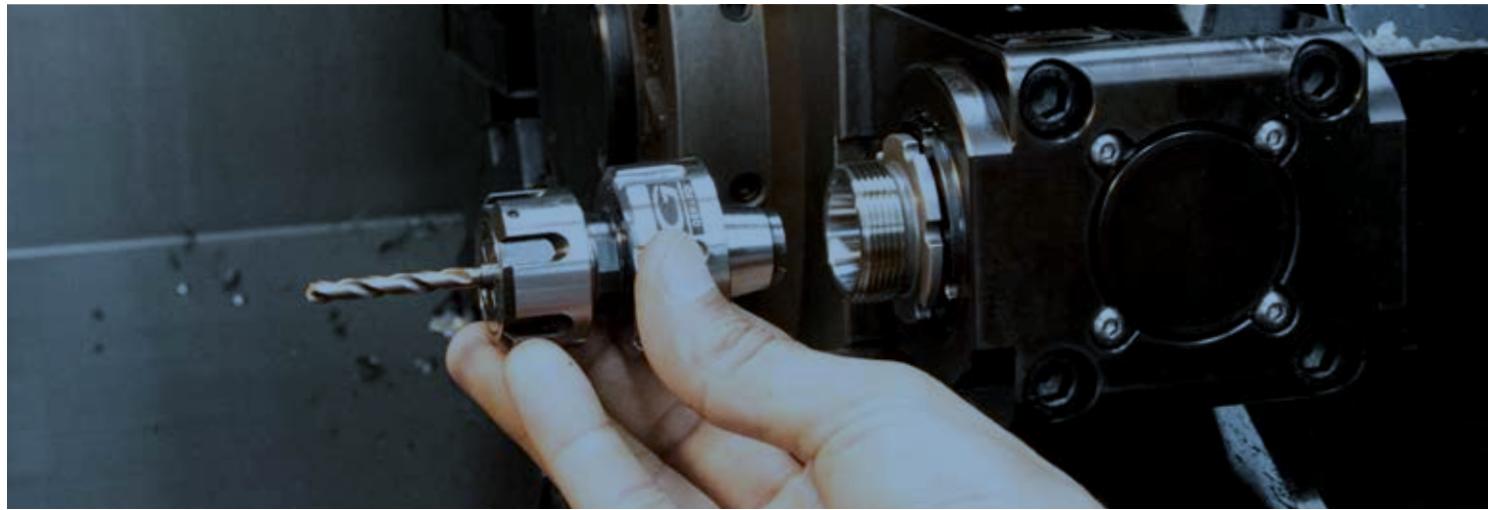
NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

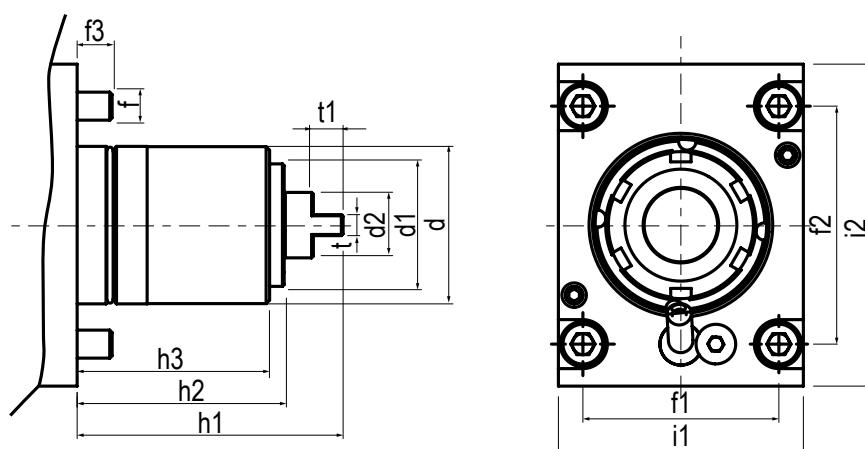
I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

NUOVI MODELLI  
NEW MODELS

**MIYANO**  
**Ø38 / Ø45 / Ø54**



Type	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1
Ø38	38	-	-	M6	52	56	7	37	-	30	78	78	6	7
Ø45	45	35	19	M8	56	68	10	76	59	55	92	70	12	8,5
Ø54	54	-	-	-	75	60	-	72	50	-	90	100	8	-



**DOTAZIONE STANDARD**  
STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / viti bloccaggio motorizzato / O-ring  
Art.179CH Tool shaft lock wrench / cooling nozzle Art.183 / nozzle lock screws / Driven tool locking screws / O-ring



**CAMBI RAPIDI MODULARI** Vedi pag. 5.108  
MODULAR QUICK CHANGE See page 5.108

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

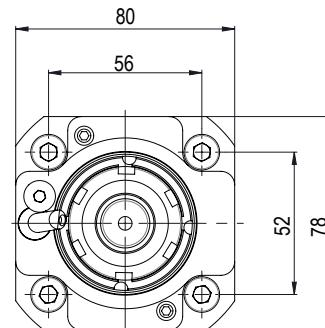
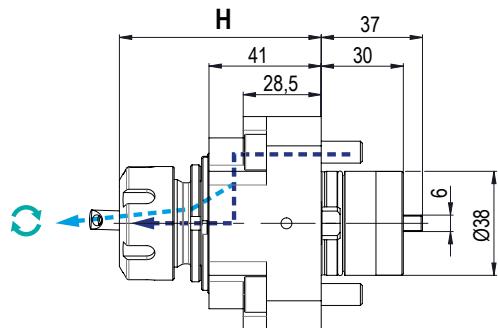
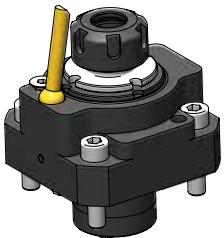
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**Ø38**

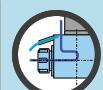
**NEW**



TIPO - TYPE  
Assiale - Axial



USCITA - OUTPUT  
Portapinza Collet Chuck



REFRIGERANTE  
COOLANT  
**70BAR**



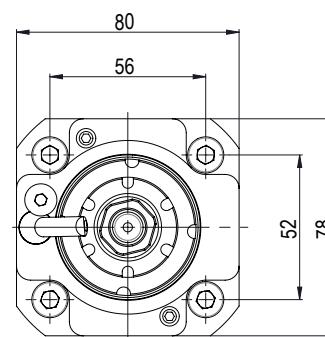
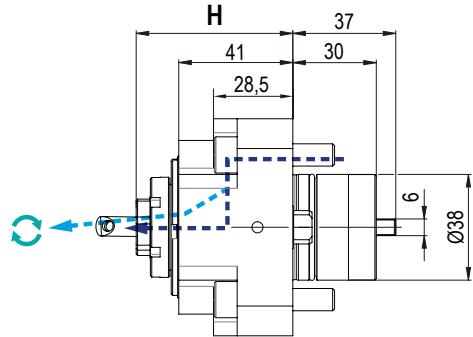
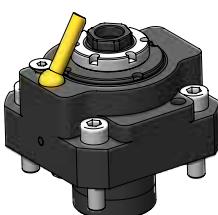
RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MY.A21	ER-25 Ø1-16	NO	Max 73,7	20	6.000	6	
99.MY.A22	ER-25 Ø1-16	✓	Max 73,7	20	6.000	6	
99.MY.A41	ER-20 Ø1-13	NO	Max 71,2	20	6.000	6	
99.MY.A42	ER-20 Ø1-13	✓	Max 71,2	20	6.000	6	

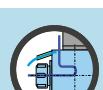
**NEW**



TIPO - TYPE  
Assiale - Axial



USCITA - OUTPUT  
Portapinza Collet Chuck



REFRIGERANTE  
COOLANT  
**70BAR**



RATIO  
**1:1**



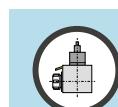
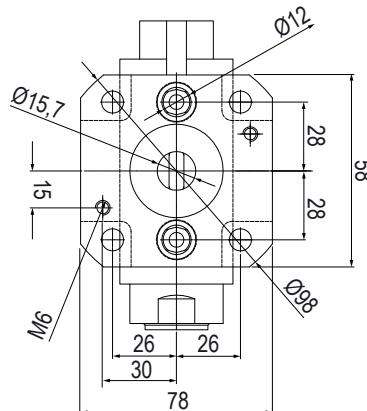
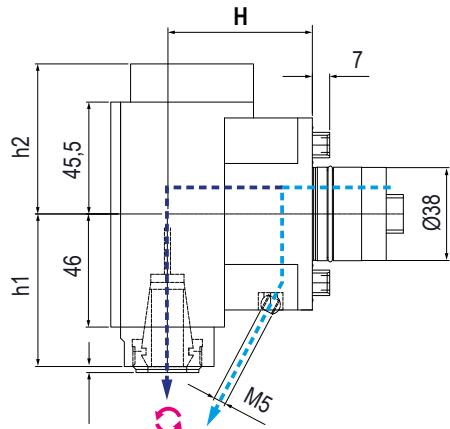
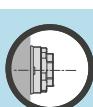
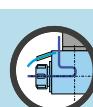
ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MY.A35	ER-16 Ø1-10	NO	Max 56,3	20	6.000	6	
99.MY.A40	ER-16 Ø1-13	✓	Max 56,3	20	6.000	6	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**

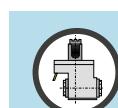
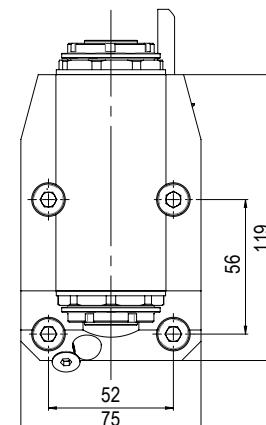
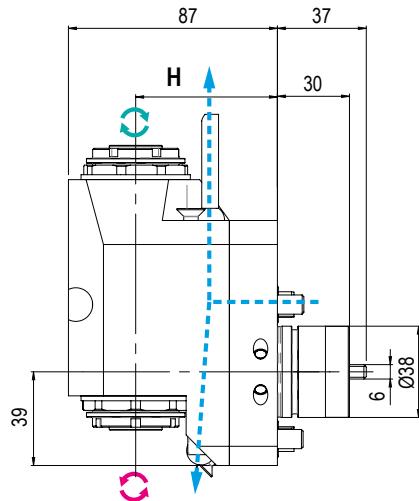
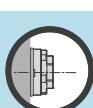
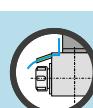
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

**TIPO - TYPE**  
Radiale - Radial

**USCITA - OUTPUT**  
Portapinza Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**70BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MY.A33	ER-20 Ø1-13	NO	59	62	61	16	6.000	1,8	
99.MY.A34	ER-20 Ø1-13	✓	59	62	61	16	6.000	1,8	

**NEW**

**TIPO - TYPE**  
Arretato Doppio  
Double Rear Offset

**USCITA - OUTPUT**  
Portapinza Collet Chuck

**REFRIGERANTE**  
**COOLANT**  
**Esterno**  
External

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Ugual ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MY.A38	ER-16	NO	59	16	6.000	10	
99.MY.A39	ER-20	NO	59	16	6.000	10	

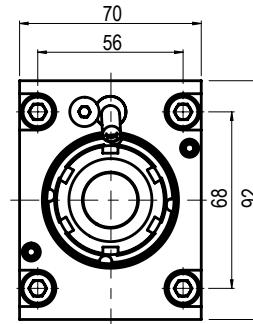
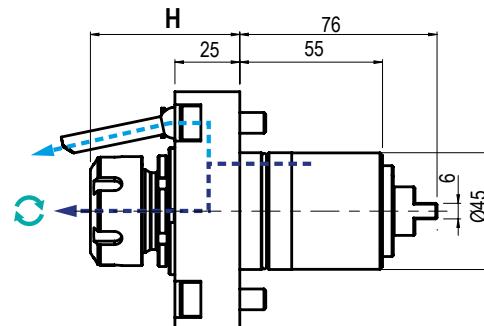
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**

**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

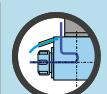
**Ø45**



TIPO - TYPE  
Assiale - Axial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**80BAR**



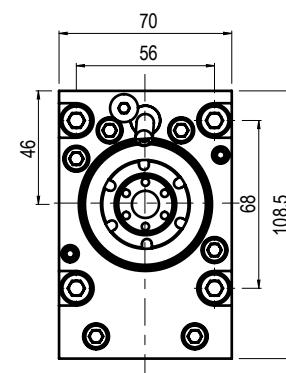
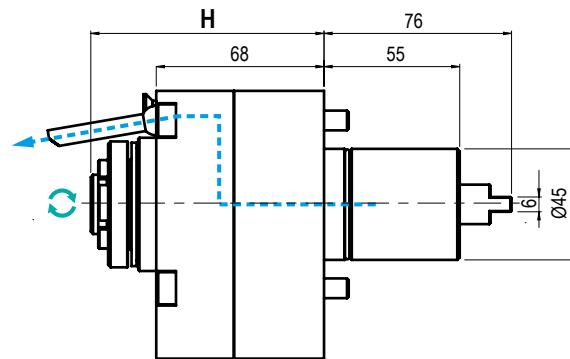
RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MY.A02	ER-25 - Ø1÷16	NO	53,9÷57,6	35	6.000	6	
99.MY.A03	ER-25 - Ø1÷16	✓	53,9÷57,6	35	6.000	6	
99.MY.A15	ER-32 - Ø2÷20	NO	60,6÷64,3	35	6.000	6	
99.MY.A16	ER-32 - Ø2÷20	✓	60,6÷64,3	35	6.000	6	

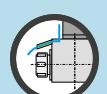
**5**



TIPO - TYPE  
Assiale - Axial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



RATIO  
**1:4**



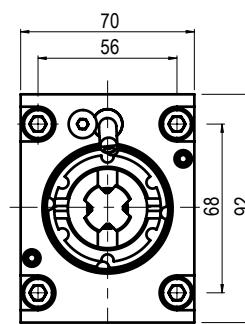
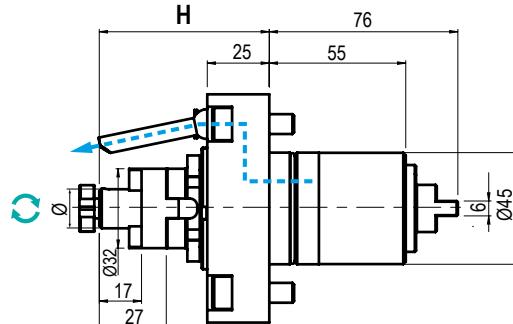
ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MY.A01	ER-16 -EF - Ø1÷10	NO	90,8÷94,5	6	24.000	3	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**
**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
Assiale - Axial

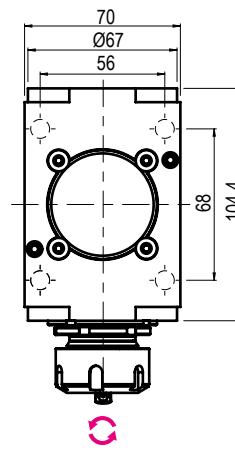
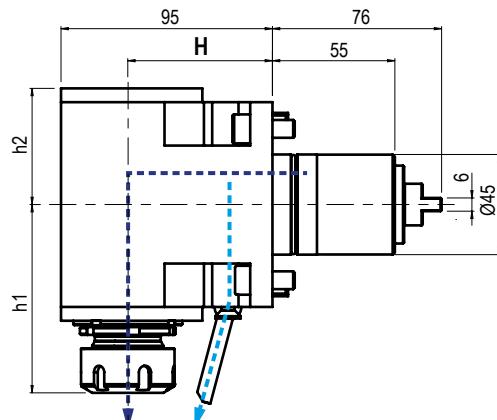
**USCITA - OUTPUT**  
Porta Fresa  
Shell End Milling Cutter

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MY.A14	Ø 16	NO	68,5	35	6.000	6	


**TIPO - TYPE**  
Radiale - Radial

**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
80BAR

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

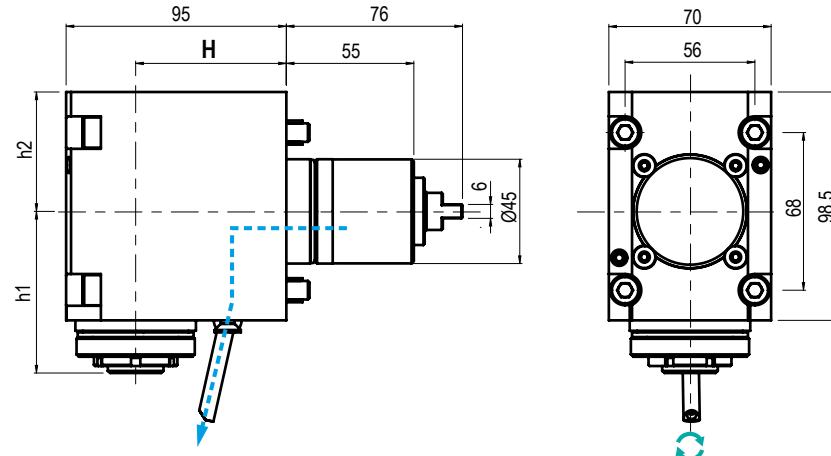
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MY.A05	ER-25 - Ø1÷16	NO	65	Max 84,6	52,2	35	6.000	6	
99.MY.A06	ER-25 - Ø1÷16	✓	65	Max 84,6	52,2	35	6.000	6	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**

**GOODWAY**

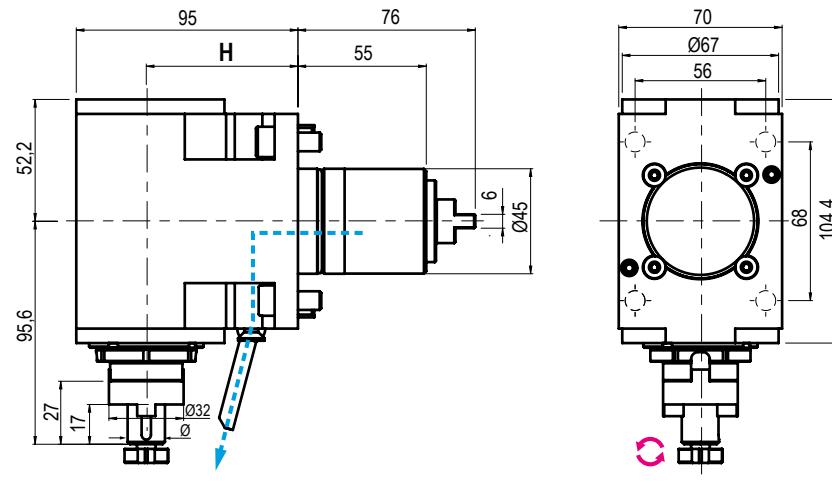
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



	TIPO - TYPE Radiale - Radial		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT Esterno External		RATIO <b>1:4</b>		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MY.A04	ER-16 - EF - Ø1÷10	NO	65	69,7	51,5	6	24.000	3	

5



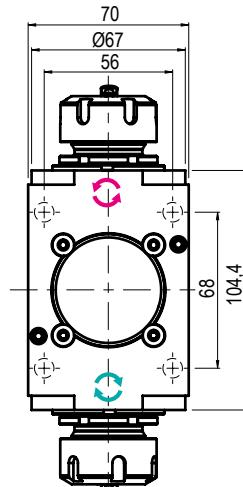
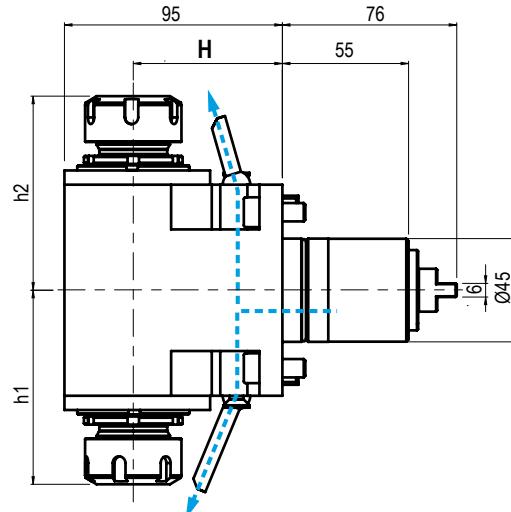
	TIPO - TYPE Radiale - Radial		USCITA - OUTPUT Porta Fresa Shell End Milling Cutter		REFRIGERANTE COOLANT Esterno External		RATIO <b>1:1</b>		ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MY.A17	Ø 16	NO	65	35	6.000	6	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**
**GOODWAY**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
Doppio Radiale  
Double Radial

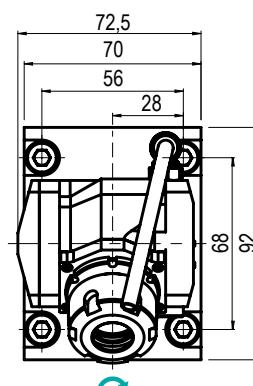
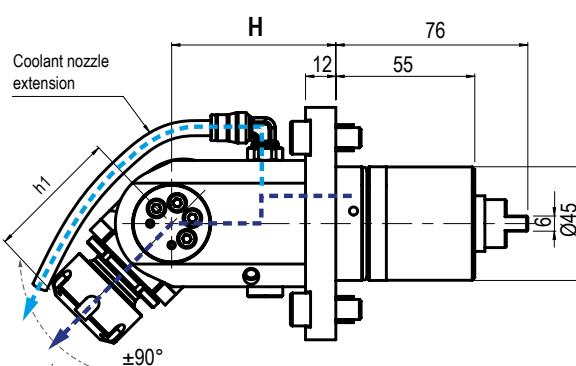
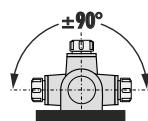
**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MY.A07	ER-25-25 - Ø1÷16	NO	65	84,6	84,6	35	6.000	6	


**TIPO - TYPE**  
Orientabile ±90°  
±90° Adjustable

**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
80BAR

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MY.A08	ER-20 - Ø1÷13	NO	65	Max 52,5	15	6.000	3	
99.MY.A13	ER-20 - Ø1÷13	✓	65	Max 52,5	15	6.000	3	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

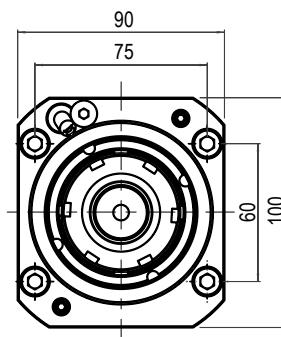
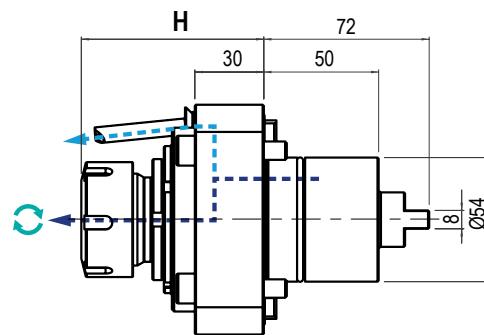
**MIYANO**

**CMZ**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**ø54**

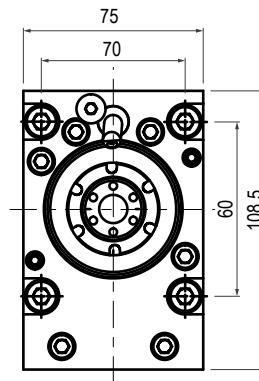
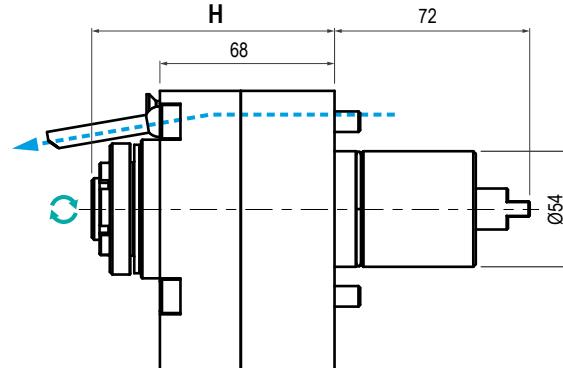
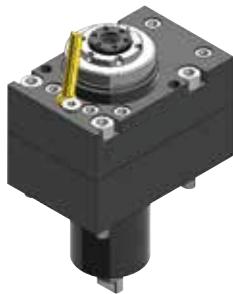
**NEW**



TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 80BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MY.A24	ER-25 - Ø1÷16	NO	73,5÷77,2	60	6.000	10
99.MY.A25	ER-25 - Ø1÷16	✓	73,5÷77,2	60	6.000	10
99.MY.A09	ER-32 - Ø2÷20	NO	75,7÷79,4	60	6.000	10
99.MY.A10	ER-32 - Ø2÷20	✓	75,7÷79,4	60	6.000	10

**NEW**



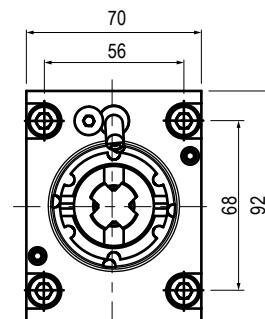
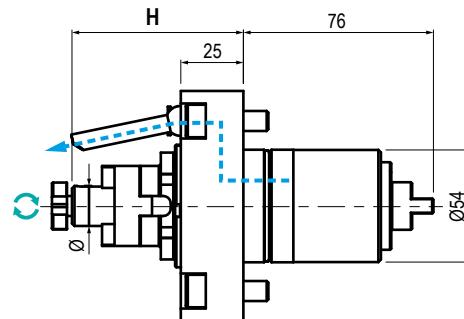
TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:4	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	kw
99.MY.A26	ER-16 - Ø1÷10	NO	90,8÷94,5	6	24.000	3

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**
**CMZ**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

**TIPO - TYPE**  
Assiale - Axial

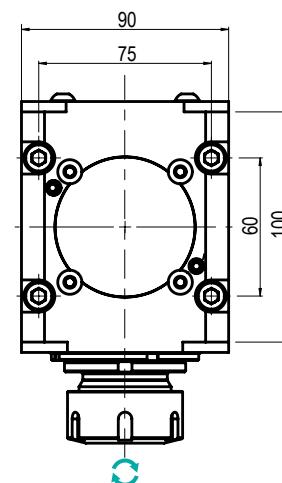
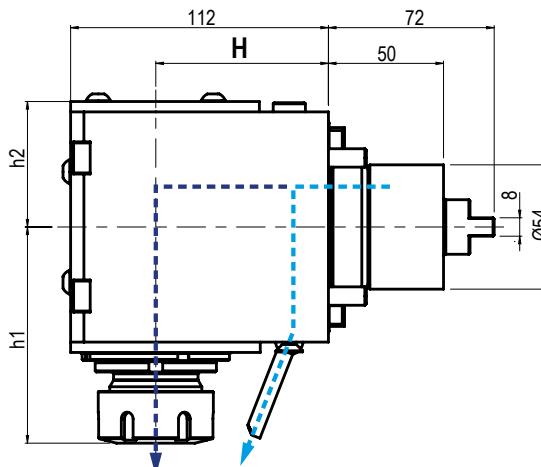
**USCITA - OUTPUT**  
Porta Fresca  
Shell End Milling Cutter

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.MY.A27	Ø22	NO	100	60	6.000	10	

**NEW**

**TIPO - TYPE**  
Radiale - Radial

**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
80BAR

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MY.A28	ER-25 - Ø1÷16	NO	75	87,3÷91	54,5	60	6.000	10	
99.MY.A29	ER-25 - Ø1÷16	✓	75	87,3÷91	64,5	60	6.000	10	
99.MY.A11	ER-32 - Ø2÷20	NO	75	90,3÷94	54,5	60	6.000	10	
99.MY.A12	ER-32 - Ø2÷20	✓	75	90,3÷94	64,5	60	6.000	10	

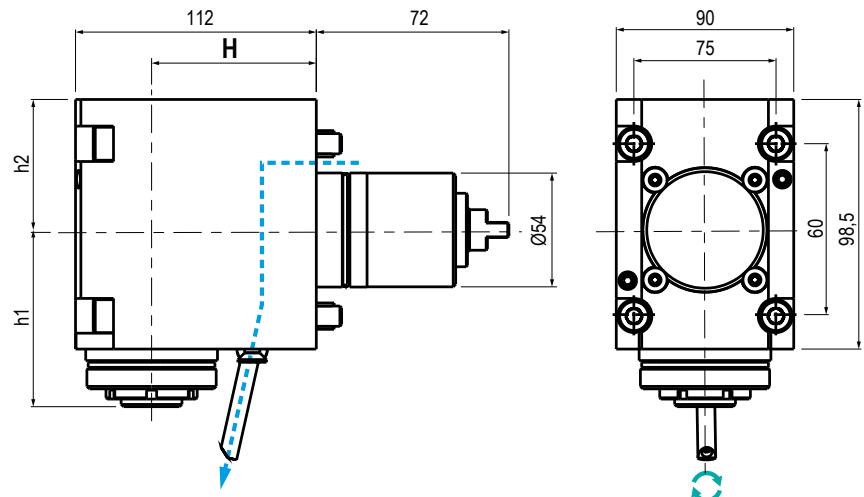
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**

**CMZ**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**

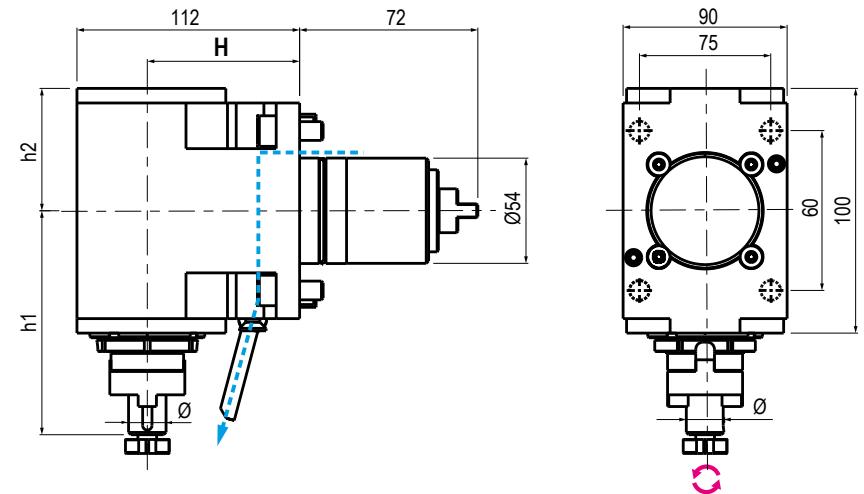


TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO <b>1:4</b>	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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<b>Code</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>	<b>h1</b>	<b>h2</b>	<b>Nm</b>	<b>Rpm</b>	<b>kw</b>
99.MY.A30	ER-16 - Ø1÷10	NO	75	66÷69,7	51,5	6	24.000	3

5

**NEW**



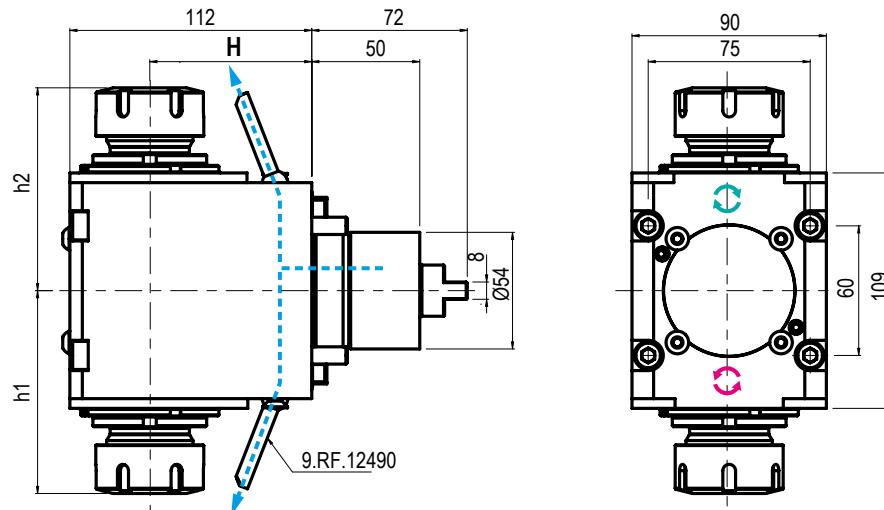
TIPO - TYPE Radiale - Radial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO <b>1:1</b>	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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<b>Code</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>	<b>h1</b>	<b>h2</b>	<b>Nm</b>	<b>Rpm</b>	<b>kw</b>
99.MY.A31	Ø22	NO	75	112	72	60	6.000	10

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**MIYANO**
**CMZ**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9


**TIPO - TYPE**  
Doppio Radiale  
Double Radial

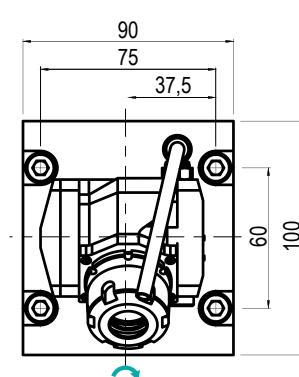
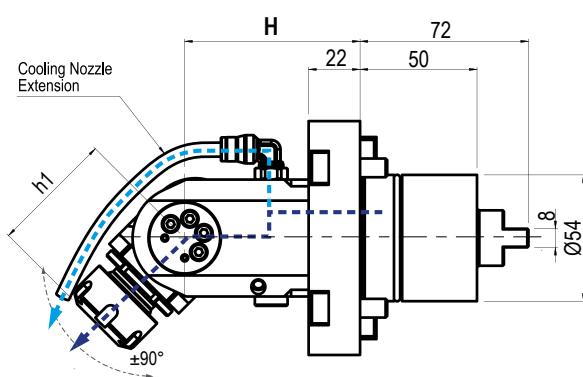
**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
Esterno  
External

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.MY.A32	ER-25-25 - Ø1÷16	NO	75	87,3÷91	87,3÷91	60	6.000	10	
99.MY.A18	ER-32-32 - Ø2÷20	NO	75	93,9	93,9	60	6.000	10	


**TIPO - TYPE**  
Orientabile ±90°  
±90° Adjustable

**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
80BAR

**RATIO**  
1:1

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.MY.A19	ER-20 - Ø1÷13	NO	75	Max 52,2	15	6.000	3	
99.MY.A20	ER-20 - Ø1÷13	✓	75	Max 52,2	15	6.000	3	

# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

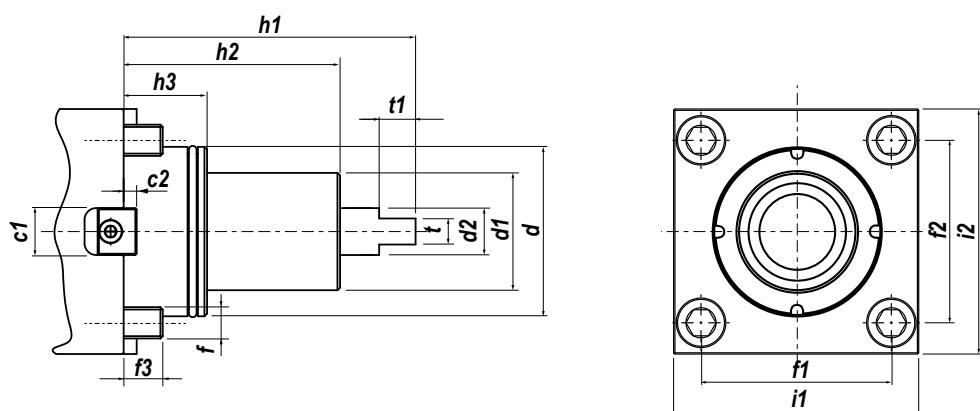
I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

NUOVI MODELLI  
NEW MODELS

**NAKAMURA**  
**BMT44 / BMT55 / BMT65**



Type	c1	c2	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1
BMT44	20	5,5	44	40	15	M8	40	55	12-15	91	63	28	62	79,5	8	12
BMT55	20	5,5	55	50	17	M10	50	60	12-15	108	70	29,5	79	84	8	10
BMT65	20	5,5	65	-	-	-	69	71	12-15	115,5	-	31	92	100	10	-



**DOTAZIONE STANDARD**  
STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / viti bloccaggio motorizzato / O-ring  
Art.179CH Tool shaft lock wrench / cooling nozzle Art.183 / nozzle lock screws / driven tool locking screws / O-ring



**CAMBI RAPIDI MODULARI** Vedi pag. 5.118  
MODULAR QUICK CHANGE See page 5.118

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499)  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

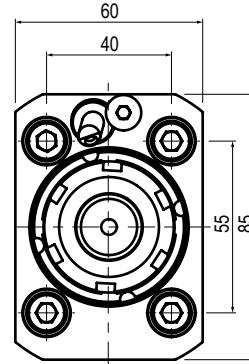
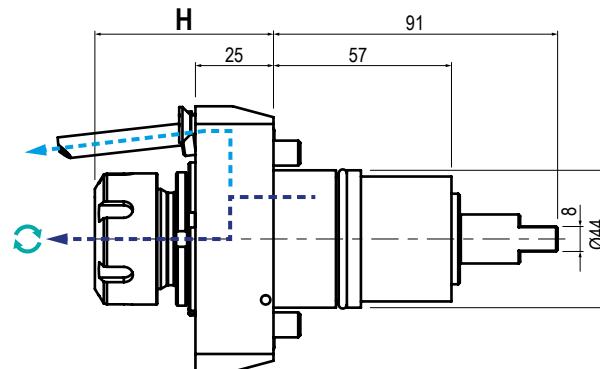
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

NAKAMURA

MURATEC

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

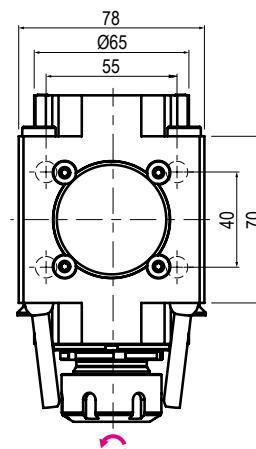
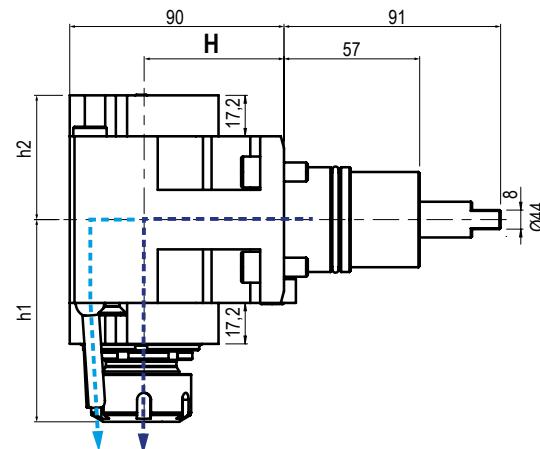
**BMT  
44**



TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 70BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	kw
99.NK.A40	ER-25 - Ø1÷16	NO	Max 57,2	40	6.000	6
99.NK.A43	ER-25 - Ø1÷16	✓	Max 57,2	40	6.000	6

**5**

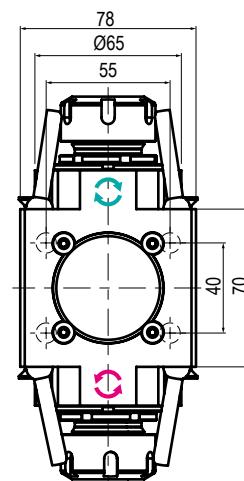
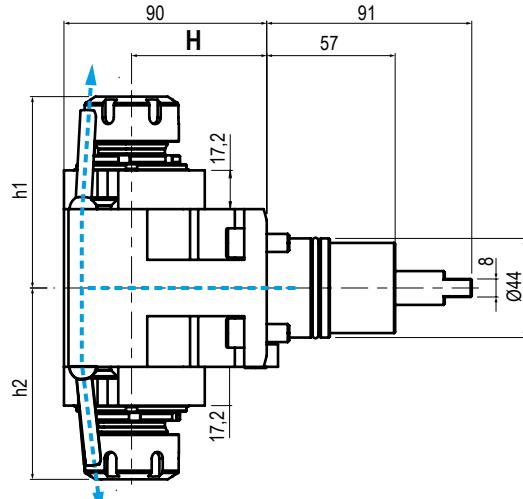


TIPO - TYPE Radiale- Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 70BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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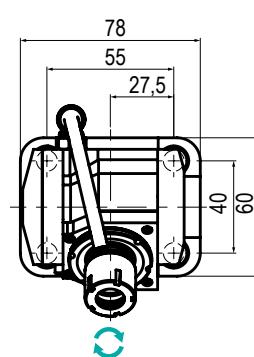
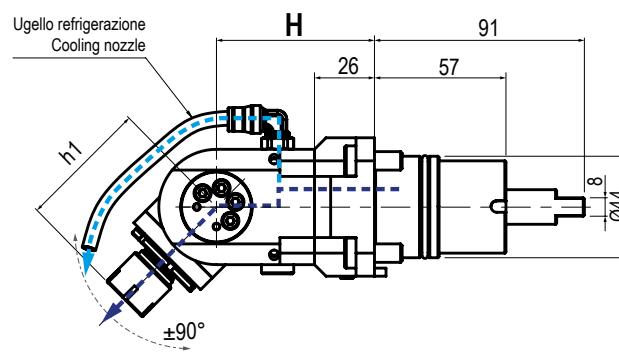
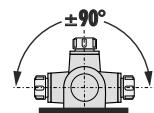
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw
99.NK.A50	ER-25 - Ø1÷16	NO	60	Max 84,9	52,2	40	6.000	6
99.NK.A53	ER-25 - Ø1÷16	✓	60	Max 84,9	52,2	40	6.000	6
99.NK.A30	ER-25 - Ø1÷16	NO	75	Max 84,9	52,2	40	6.000	6
99.NK.A33	ER-25 - Ø1÷16	✓	75	Max 84,9	52,2	40	6.000	6

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**NAKAMURA**
**MURATEC**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



TIPO - TYPE Radiale Doppio Double Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle					
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.NK.A70	ER-25-25 - Ø1÷16	NO	60	Max 84,9	Max 84,9	40	6.000	6	
99.NK.A80	ER-25-25 - Ø1÷16	NO	75	Max 84,9	Max 84,9	40	6.000	6	



TIPO - TYPE Orientabile ±90° ±90° Adjustable	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 70BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle				
Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.NK.A59	ER-16 - Ø1÷10	NO	68,5	Max 56,5	10	6.000	2	
99.NK.A69	ER-16 - Ø1÷10	✓	68,5	Max 56,5	10	6.000	2	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

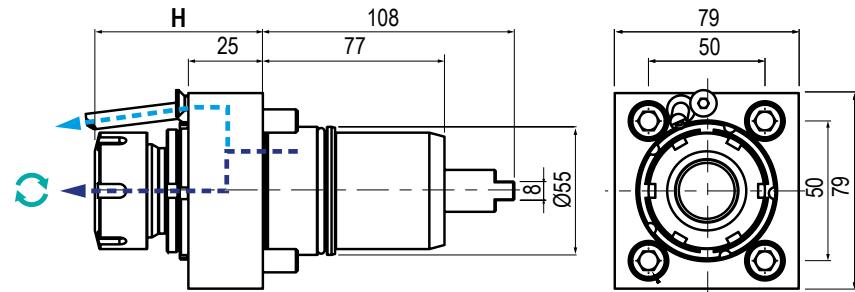
**NAKAMURA**

**CMZ**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT  
55**

**NEW**



TIPO - TYPE  
Assiale - Axial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**70BAR**



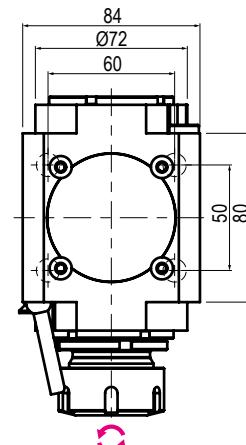
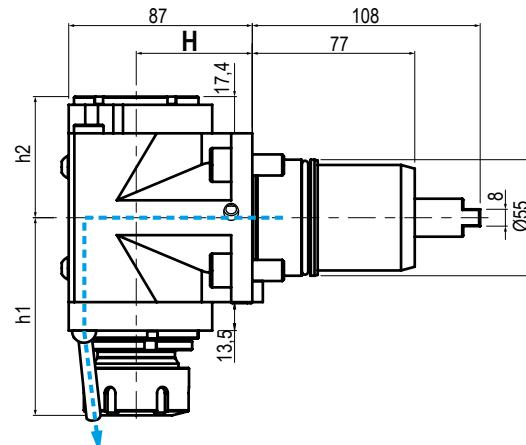
RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.NK.A01	ER-25 - Ø1÷16	NO	53,5÷57,2	63	6.000	10	
99.NK.A02	ER-25 - Ø1÷16	✓	53,5÷57,2	63	6.000	10	
99.NK.A03	ER-32 - Ø2÷20	NO	68,5÷72,2	63	6.000	10	
99.NK.A04	ER-32 - Ø2÷20	✓	68,5÷72,2	63	6.000	10	

**NEW**



TIPO - TYPE  
Radiale - Radial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**Esterno**  
**External**



RATIO  
**1:1**

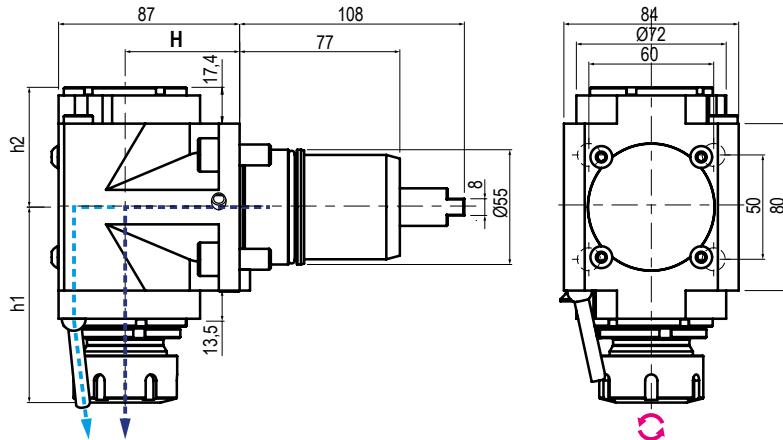


ROTAZIONE - ROTATION  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.NK.A20	ER-25 - Ø1÷16	NO	55	82,5÷86,2	57,4	63	6.000	10	
99.NK.A13	ER-32 - Ø2÷20	NO	55	90÷93,7	57,4	63	6.000	10	
99.NK.A05	ER-25 - Ø1÷16	NO	65	82,5÷86,2	57,4	63	6.000	10	
99.NK.A23	ER-32 - Ø2÷20	NO	65	90÷93,7	57,4	63	6.000	10	
99.NK.A07	ER-25 - Ø1÷16	NO	75	82,5÷86,2	57,4	63	6.000	10	
99.NK.A15	ER-32 - Ø2÷20	NO	75	90÷93,7	57,4	63	6.000	10	

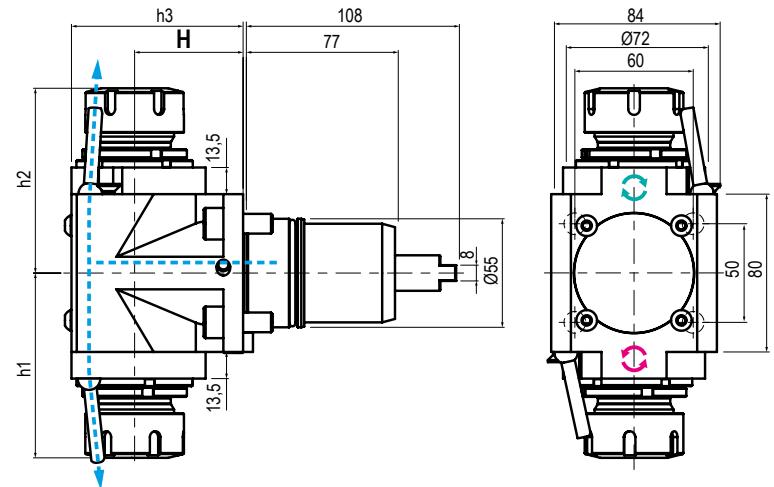
**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**NAKAMURA**
**CMZ**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE Radiale- Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 70BAR	RATIO 1:1	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
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Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.NK.A25	ER-25 - Ø1÷16	✓	55	82,5÷86,2	63,4	63	6.000	10	
99.NK.A14	ER-32 - Ø2÷20	✓	55	90÷93,7	63,4	63	6.000	10	
99.NK.A06	ER-25 - Ø1÷16	✓	65	82,5÷86,2	63,4	63	6.000	10	
99.NK.A24	ER-32 - Ø2÷20	✓	65	90÷93,7	63,4	63	6.000	10	
99.NK.A08	ER-25 - Ø1÷16	✓	75	82,5÷86,2	63,4	63	6.000	10	
99.NK.A16	ER-32 - Ø2÷20	✓	75	90÷93,7	63,4	63	6.000	10	

**NEW**


TIPO - TYPE Radiale Doppio Double Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale ed opposto al mandrino Same and opposite as m. spindle
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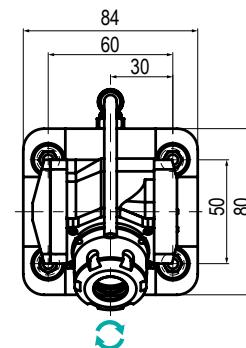
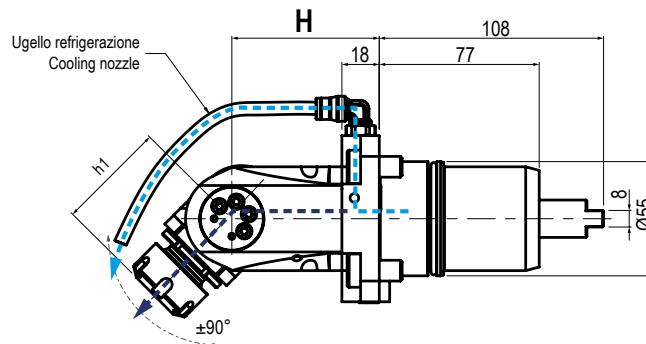
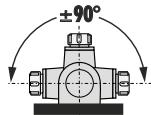
Code	Output	Int Cool.	H	h1	h2	h3	Nm	Rpm	kw	
99.NK.A09	ER-25 - Ø1÷16	NO	55	82,5÷86,2	82,5÷86,2	87	63	6.000	10	
99.NK.A71	ER-32 - Ø2÷20	NO	55	90÷93,7	90÷93,7	87	63	6.000	10	
99.NK.A10	ER-25 - Ø1÷16	NO	65	82,5÷86,2	82,5÷86,2	97	63	6.000	10	
99.NK.A81	ER-32 - Ø2÷20	NO	65	90÷93,7	90÷93,7	97	63	6.000	10	
99.NK.A11	ER-25 - Ø1÷16	NO	75	82,5÷86,2	82,5÷86,2	107	63	6.000	10	
99.NK.A91	ER-32 - Ø2÷20	NO	75	90÷93,7	90÷93,7	107	63	6.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**NAKAMURA**

**CMZ**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9



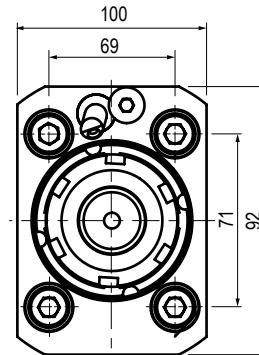
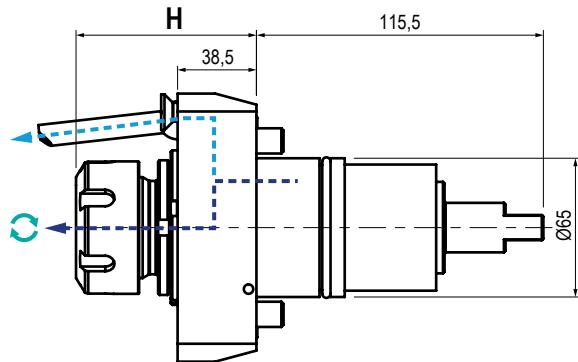
	TIPO - TYPE Orientabile ± 90° ±90° Adjustable		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT <b>70BAR</b>		RATIO <b>1:1</b>		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
---	---	---	---	---	---	--	---------------------	---	---

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.NK.A22	ER-20 - Ø1÷13	NO	71	Max 52,5	15	6.000	3	
99.NK.A32	ER-20 - Ø1÷13	✓	71	Max 52,5	15	6.000	3	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**NAKAMURA**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

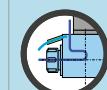
**BMT  
65**


TIPO - TYPE

Assiale - Axial



USCITA - OUTPUT

Portapinza  
Collet Chuck

REFRIGERANTE

COOLANT  
**70BAR**

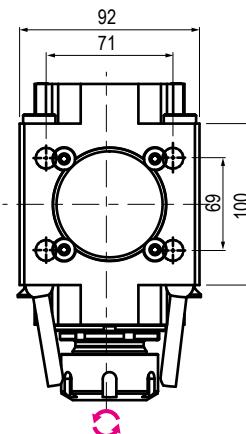
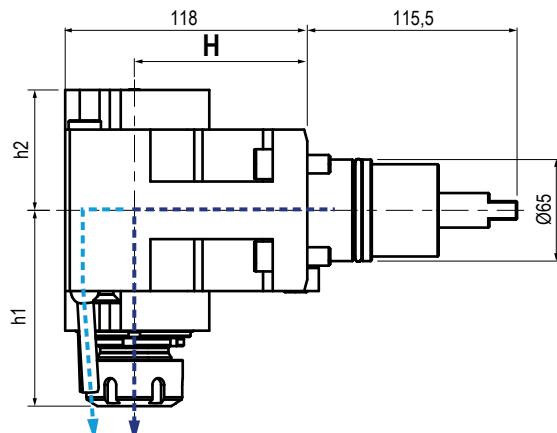
RATIO

**1:1**

ROTAZIONE - ROTATION

Uguale al mandrino  
Same as machine spindle

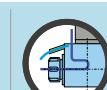
Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.NK.A51	ER-32 - Ø2÷20	NO	Max 77,9	63	6.000	10	
99.NK.A52	ER-32 - Ø2÷20	✓	Max 77,9	63	6.000	10	

**NEW**


TIPO - TYPE



USCITA - OUTPUT

Portapinza  
Collet Chuck

REFRIGERANTE

COOLANT  
**70BAR**

RATIO

**1:1**

ROTAZIONE - ROTATION

Opposto al mandrino  
Opposite to machine spindle

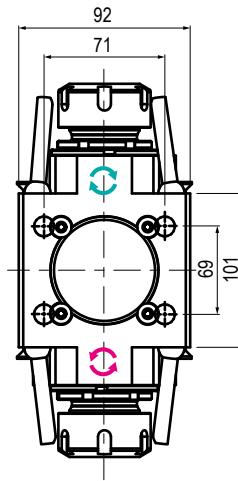
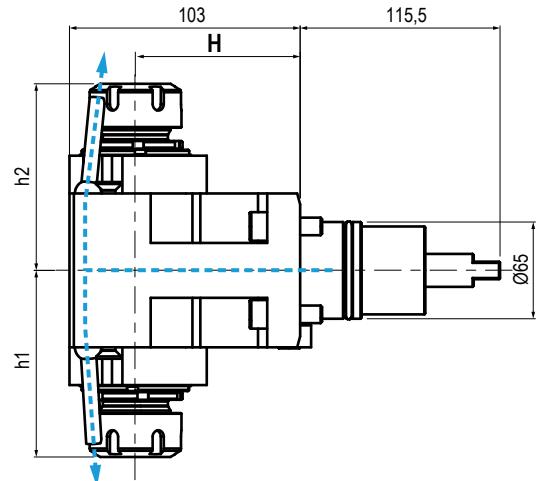
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.NK.A58	ER-32 - Ø2÷20	NO	65	90,2÷93,9	64,5	63	6.000	10	
99.NK.A62	ER-32 - Ø2÷20	✓	65	90,2÷93,9	64,5	63	6.000	10	
99.NK.A12	ER-32 - Ø2÷20	NO	80	90,2÷93,9	64,5	63	6.000	10	
99.NK.A17	ER-32 - Ø2÷20	✓	80	90,2÷93,9	64,5	63	6.000	10	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**NAKAMURA**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**



TIPO - TYPE  
Radiale Doppio  
Double Radial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



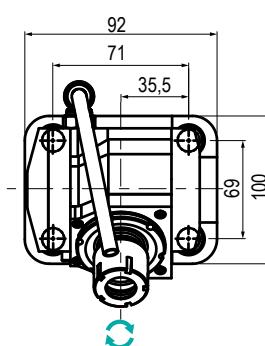
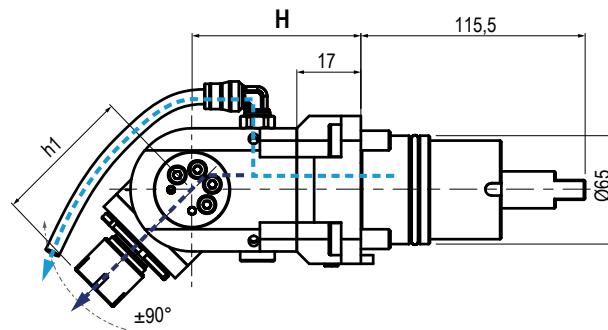
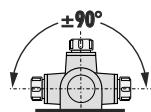
RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale ed opposto al mandrino  
Same and opposite as m. spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.NK.A78	ER-32-32 - Ø2÷20	NO	65	90,2÷93,9	90,2÷93,9	63	6.000	10	
99.NK.A18	ER-32-32 - Ø2÷20	NO	80	90,2÷93,9	90,2÷93,9	63	6.000	10	

**NEW**



TIPO - TYPE  
Orientabile ±90°  
±90° Adjustable



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**70BAR**

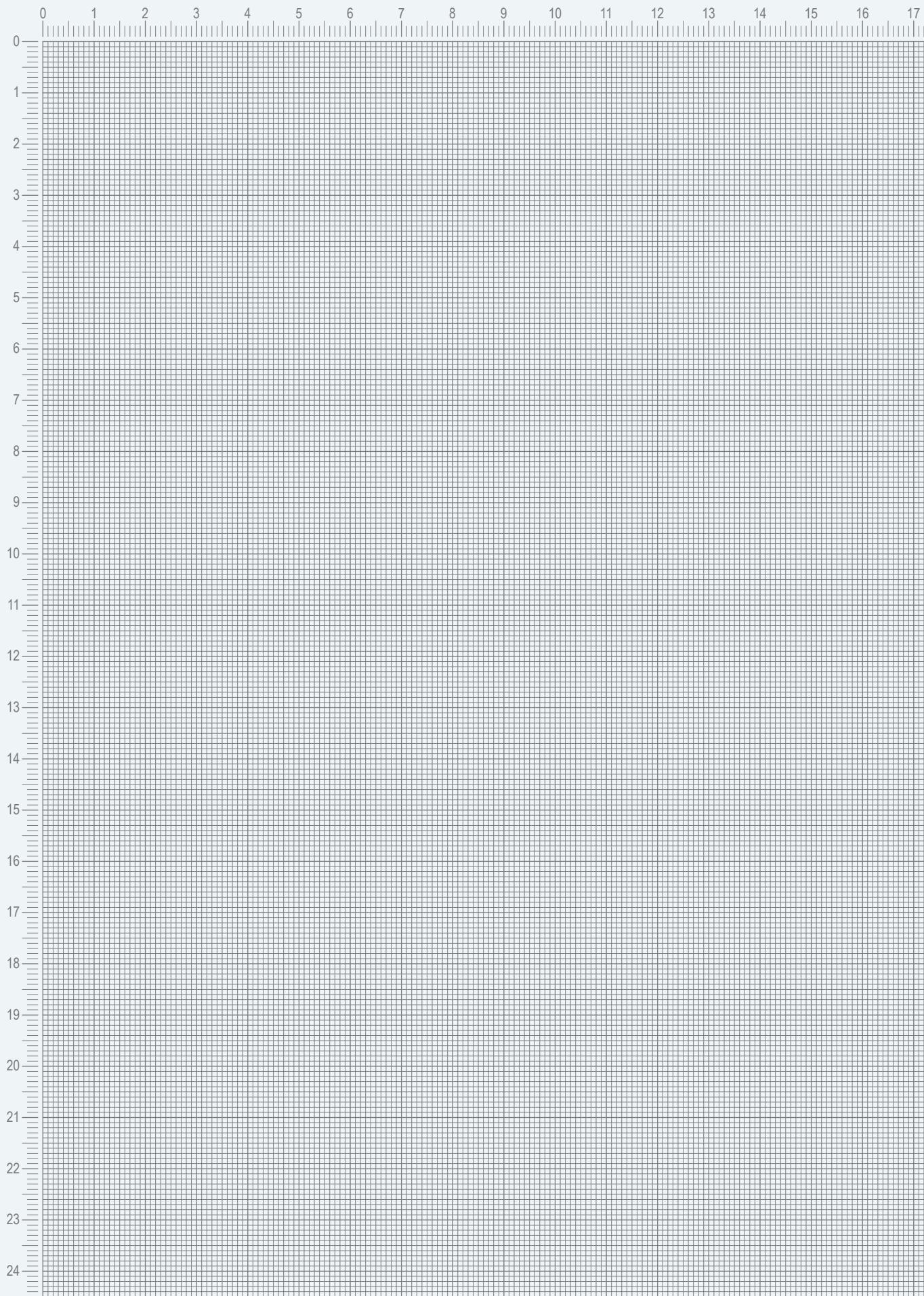


RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw	
99.NK.A82	ER-25 - Ø1÷16	NO	80	63,5÷67,2	25	6.000	4	
99.NK.A19	ER-25 - Ø1÷16	✓	80	63,5÷67,2	25	6.000	4	



# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

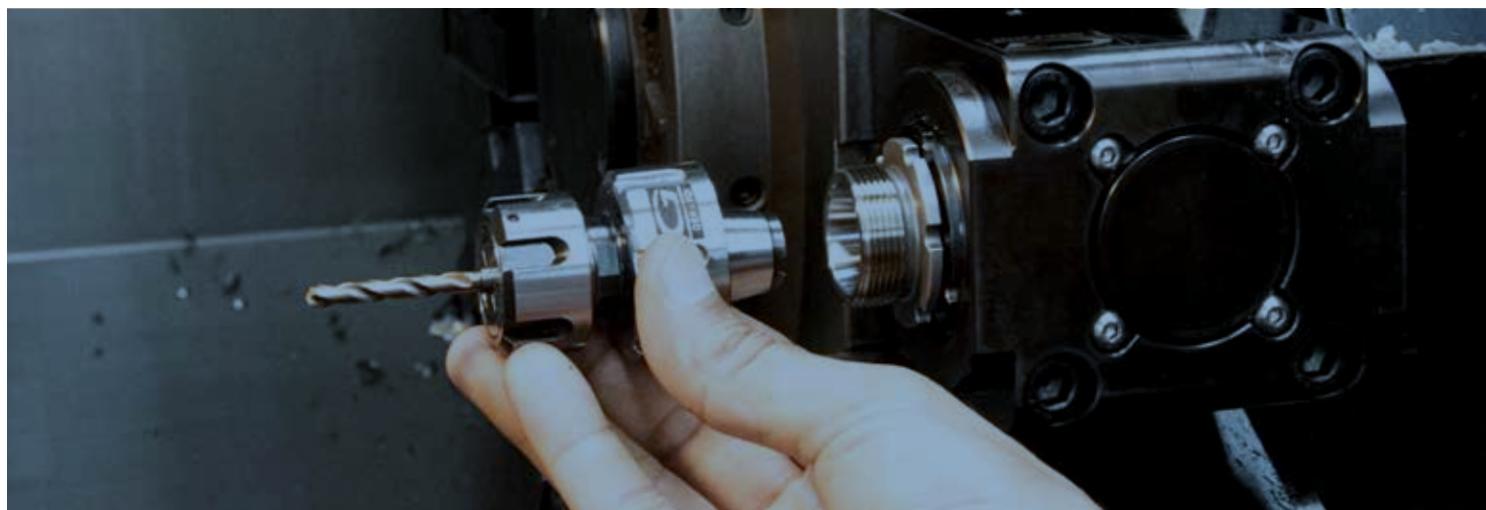
**NEW**

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0 A FORTE SERRAGGIO !**  
HIGH TORQUE QUICK CHANGE ADAPTORS 2.0

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI**  
MONEY SAVER

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ & MAGGIORE PRESTAZIONE**  
VERSATILITY & PERFORMANCE IMPROVED

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ**  
EXTREME COMPATIBILITY

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

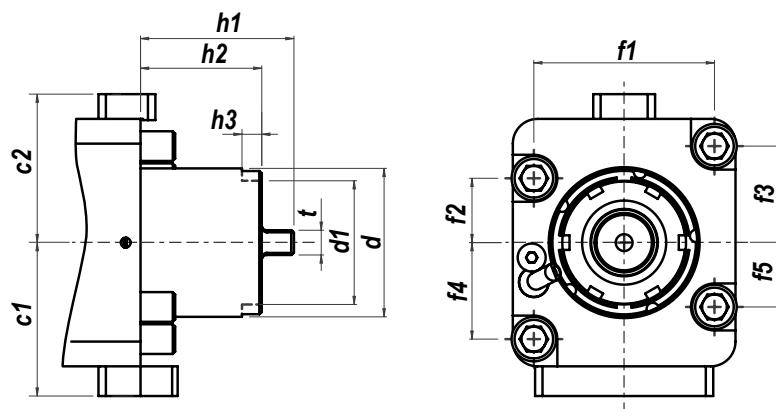
NUOVA GAMMA  
NEW RANGE

**OKUMA**  
**BMT 55 - BMT60**



**Uscita - Output  
C. ISO26623**

**DISPONIBILI SU RICHIESTA**  
AVAILABLE ON REQUEST



Type	c1	c2	d	d1	f1	f2	f3	f4	f5	h1	h2	h3	t
BMT55	-	-	Ø55	-	65	40	40	40	40	102	64	-	10
BMT60	62	60	Ø60	50	73	26	39	39	26	62	49	8	10



**DOTAZIONE STANDARD  
STANDARD EQUIPMENT**

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / viti bloccaggio motorizzato / O-ring  
Art.179CH Tool shaft lock wrench / cooling nozzle Art.183 / nozzle lock screws / Driven tool locking screws / O-ring



**CAMBI RAPIDI MODULARI** **Vedi pag. 5.122**  
**MODULAR QUICK CHANGE** **See pages 5.122**

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

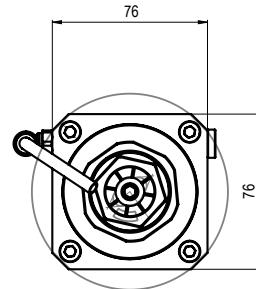
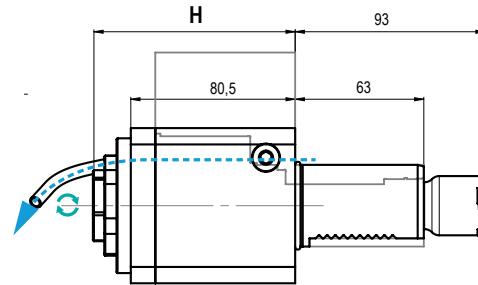
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**OKUMA**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

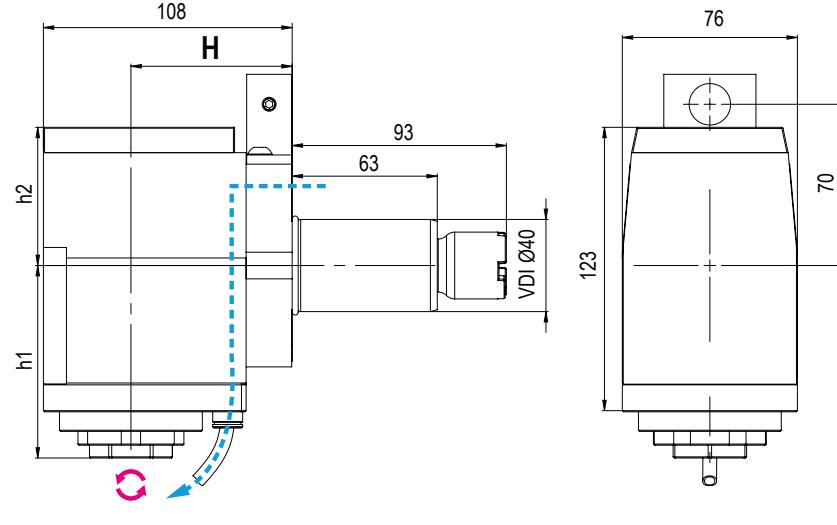
**BMT  
55**

**NEW**



TIPO - TYPE 	Assiale - Axial 	USCITA - OUTPUT 	REFRIGERANTE COOLANT Esterno External 	RATIO 	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle		
Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.OK.A18	ER-32 - DIN6499	NO	98,6	70	6.000	6	

**NEW**

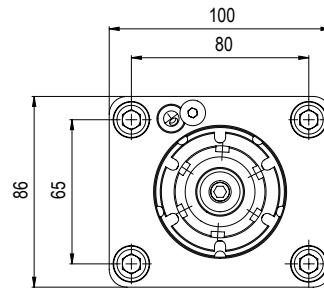
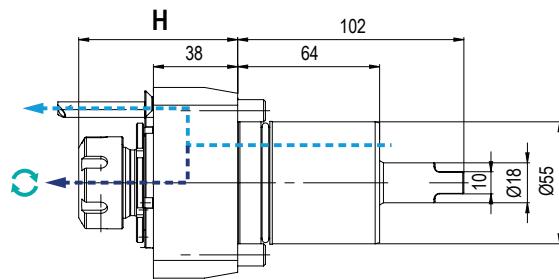


TIPO - TYPE 	Radiale- Radial 	USCITA - OUTPUT 	REFRIGERANTE COOLANT Esterno External 	RATIO 	ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle				
Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.OK.A82	ER-32 - DIN6499	NO	70	84	60	60	6.000	6	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

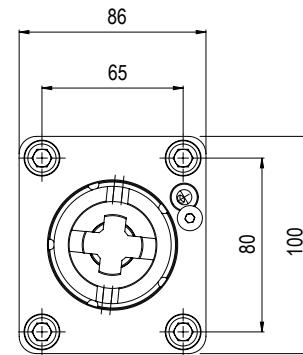
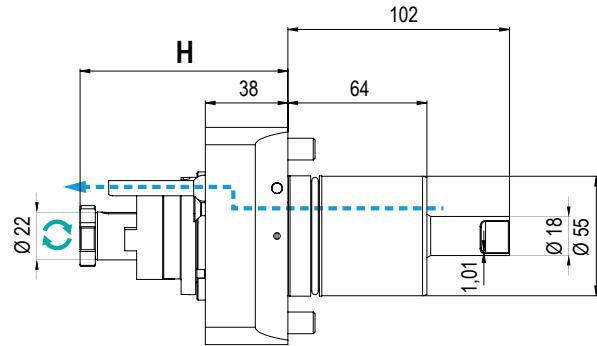
**OKUMA**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**


TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT 70BAR	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
--------------------------------	--	-------------------------------	--------------	---

Code	Output	Int Cool.	H	Nm	Rpm	kw
99.OK.A01	ER-25	NO	71,7	40	8.000	8
99.OK.A02	ER-25	✓	71,7	40	8.000	8
99.OK.A14	ER-32	NO	78	70	6.000	6
99.OK.A15	ER-32	✓	78	70	6.000	6

**NEW**


TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Porta Fresa Shell End Milling Cutter	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
--------------------------------	---	--	--------------	---

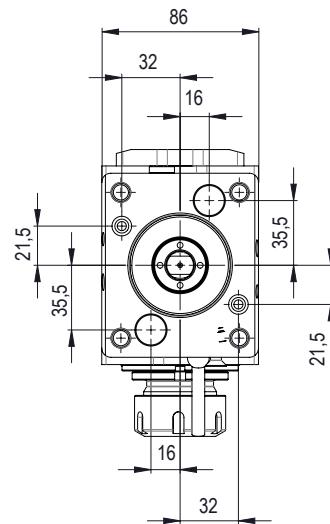
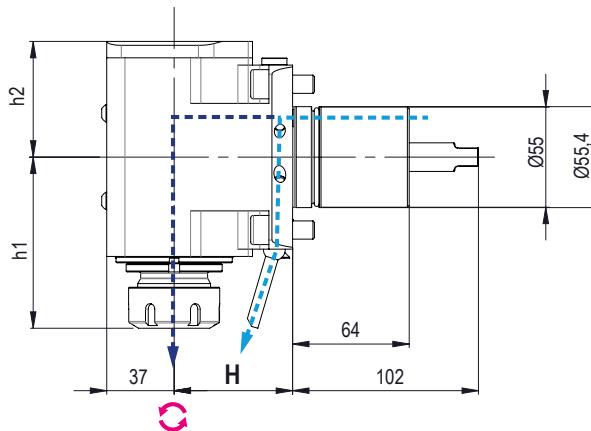
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.OK.A16	PF-20	NO	96	60	6.000	10
99.OK.A17	PF-27	NO	97	60	6.000	10

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**OKUMA**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**



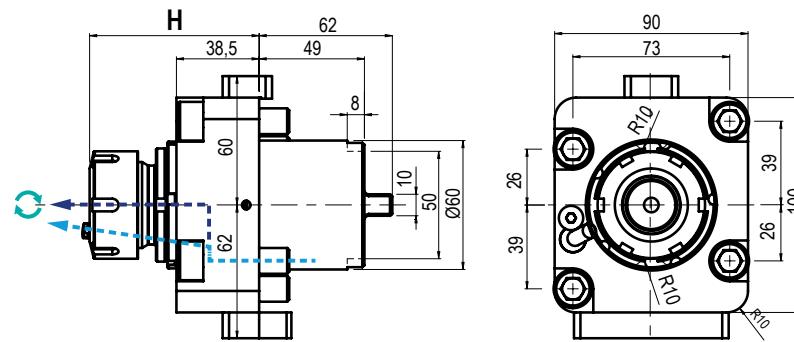
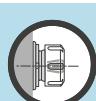
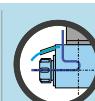
	TIPO - TYPE Radiale- Radial		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT <b>70BAR</b>		RATIO <b>1:1</b>		ROTAZIONE - ROTATION Opposto al mandrino Opposite to machine spindle
---	--------------------------------	---	---	---	---	--	---------------------	---	--

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.OK.A03	ER-20	NO	65	94	63,5	60	6.000	-	
99.OK.A04	ER-20	✓	65	94	63,5	60	6.000	-	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**OKUMA**

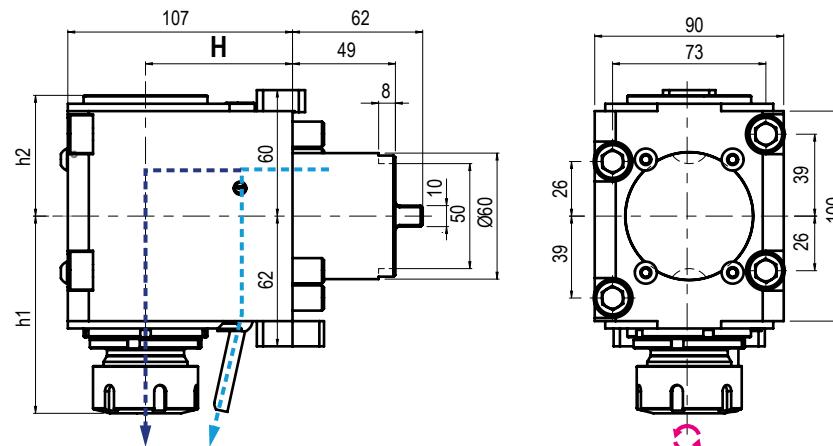
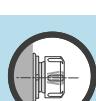
Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT  
60**
**NEW**

**TIPO - TYPE**  
Assiale - Axial

**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
**70BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.OK.A80	ER-32 - Ø2÷20	NO	Max 79	60	6.000	6	
99.OK.A81	ER-32 - Ø2÷20	✓	Max 79	60	6.000	6	


**TIPO - TYPE**  
Radiale- Radial

**USCITA - OUTPUT**  
Portapinza  
Collet Chuck

**REFRIGERANTE**  
COOLANT  
**70BAR**

**RATIO**  
**1:1**

**ROTAZIONE - ROTATION**  
Opposto al mandrino  
Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.OK.A82	ER-32 - Ø2÷20	NO	70	94	57,5	60	6.000	6	
99.OK.A83	ER-32 - Ø2÷20	✓	70	94	57,5	60	6.000	6	

# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

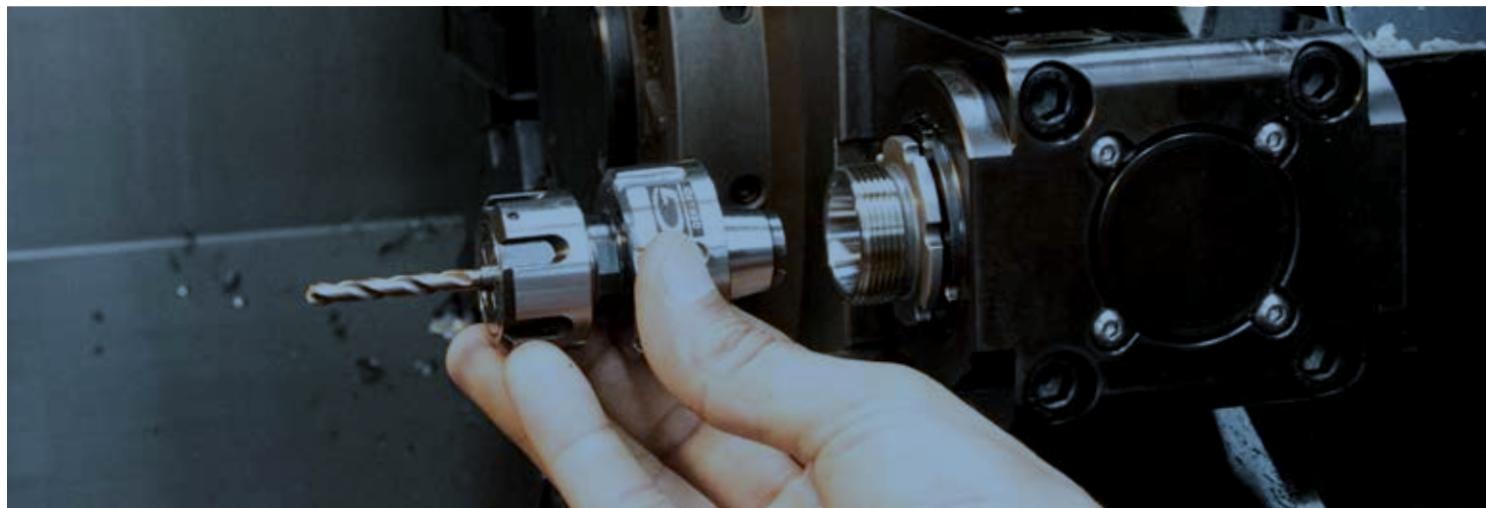
**NEW**

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

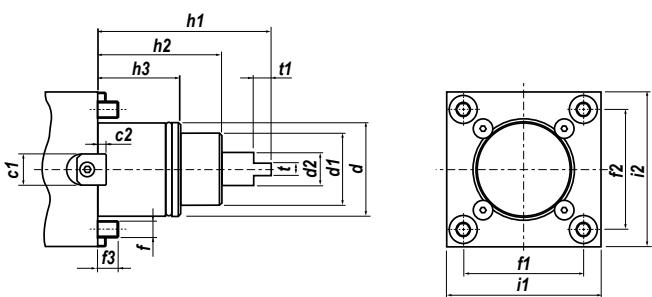
I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

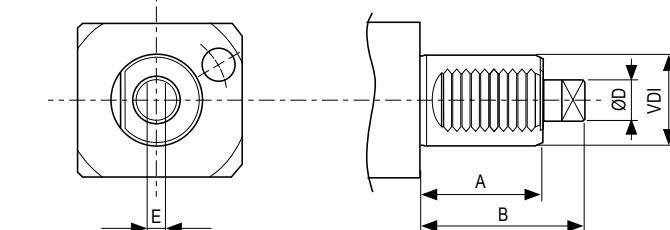
**NEW**

NUOVA GAMMA  
NEW RANGE

**SPINNER**  
**BMT 45 - VDI 30**



Type	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1
BMT45	45	35	24	-	58	58	-	72	49	35	75	75	8	7



Type	A	B	ØD	E
VDI 30	45	73	23	8



#### DOTAZIONE STANDARD STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / viti bloccaggio motorizzato / O-ring  
Art.179CH Tool shaft lock wrench / cooling nozzle Art.183 / nozzle lock screws / Driven tool locking screws / O-ring



#### CAMBI RAPIDI MODULARI **Vedi pag. 5.122** MODULAR QUICK CHANGE **See pages 5.122**

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499).  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

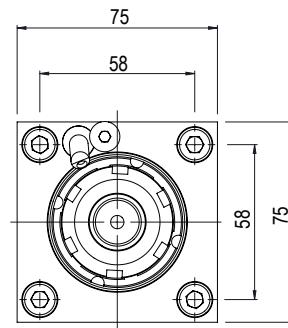
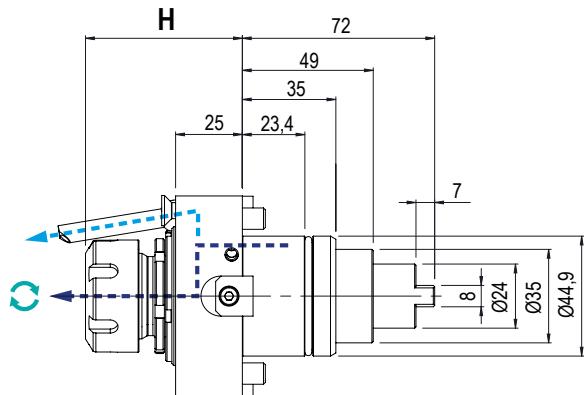
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**SPINNER**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT  
45**

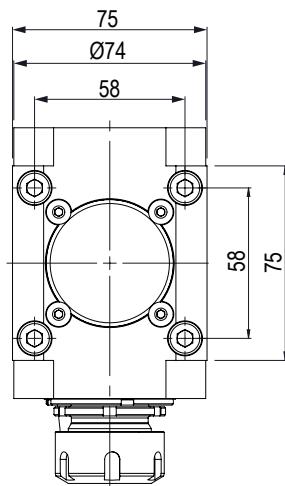
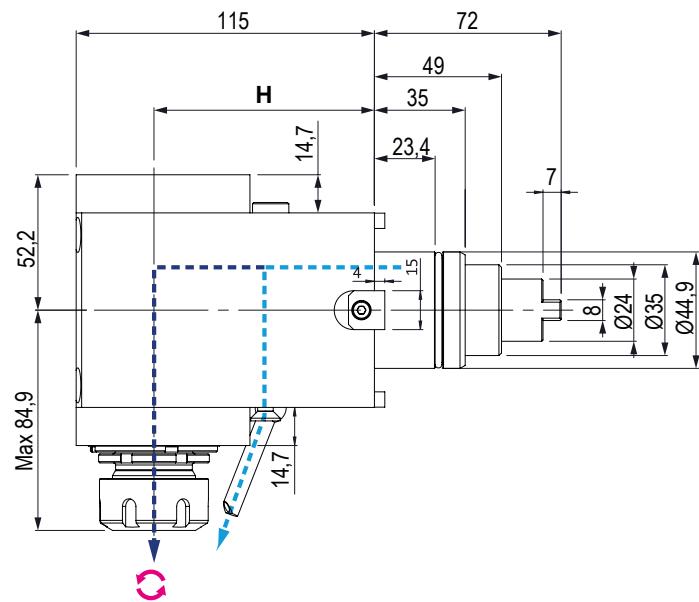
**NEW**



TIPO - TYPE	Assiale - Axial	USCITA - OUTPUT	Portapinza Collet Chuck	REFRIGERANTE COOLANT	RATIO	ROTAZIONE - ROTATION
				80BAR	1:1	Uguale al mandrino Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw
99.SPA01	ER-25 Ø1÷16	NO	Max 58,7	35	8.000	6
99.SPA02	ER-25 Ø1÷16	✓	Max 58,7	35	8.000	6
99.SPA03	ER-32 Ø2÷20	NO	Max 81	35	8.000	6
99.SPA04	ER-32 Ø2÷20	✓	Max 81	35	8.000	6

**NEW**



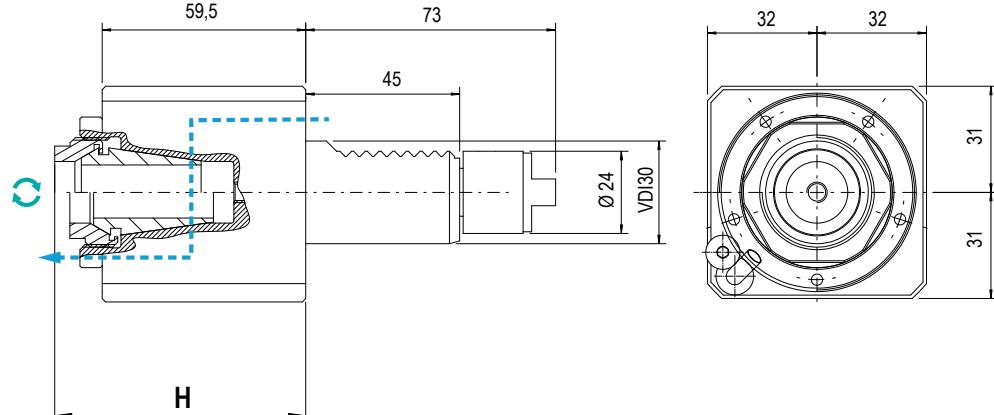
TIPO - TYPE	Radiale- Radial	USCITA - OUTPUT	Portapinza Collet Chuck	REFRIGERANTE COOLANT	RATIO	ROTAZIONE - ROTATION
				80BAR	1:1	Opposto al mandrino Opposite to machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw
99.SPA05	ER-25 Ø1÷16	NO	85	84,9	52,2	35	8.000	6
99.SPA06	ER-25 Ø1÷16	✓	85	84,9	52,2	35	8.000	6
99.SPA07	ER-32 Ø2÷20	NO	85	84,9	52,2	35	8.000	6
99.SPA08	ER-32 Ø2÷20	✓	85	84,9	52,2	35	8.000	6

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

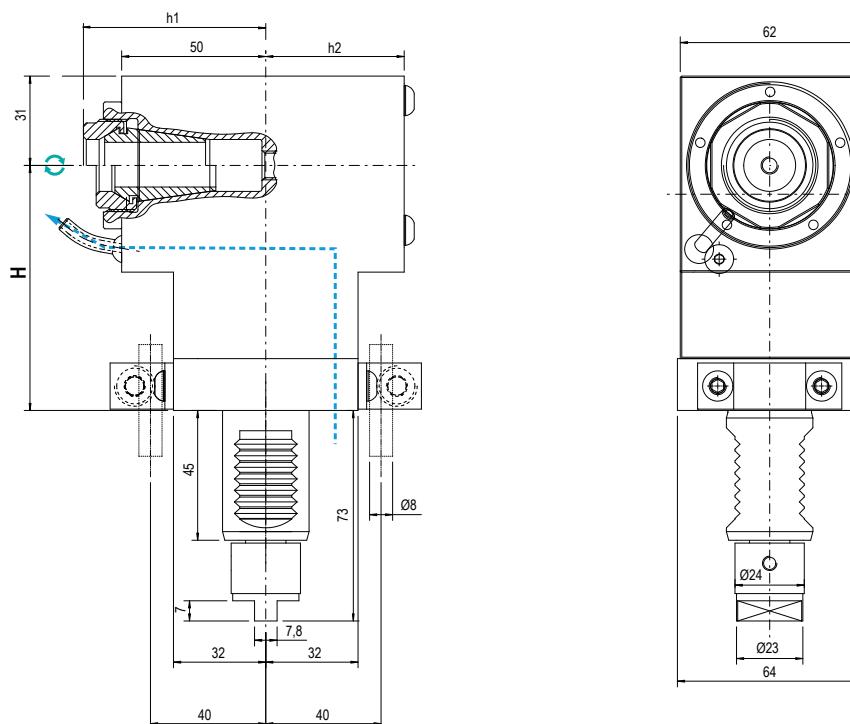
**SPINNER**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**VDI  
30**
**NEW**


TIPO - TYPE Assiale - Axial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.SPA09	ER-25 Ø1÷16	NO	Min 69 - Max 73,5	40	7.000	8	

**NEW**


TIPO - TYPE Radiale- Radial	USCITA - OUTPUT Portapinza Collet Chuck	REFRIGERANTE COOLANT Esterno External	RATIO 1:1	ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
--------------------------------	--	---	--------------	---

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.SPA10	ER-25 Ø1÷16	NO	85	58,8 ÷ 63,3	48	40	7.000	8	

# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

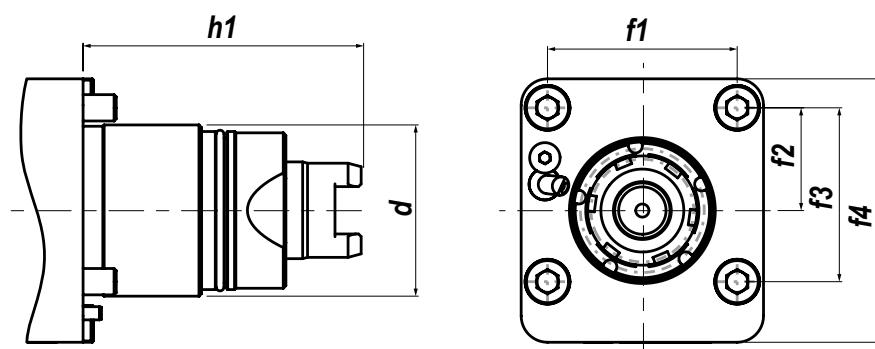
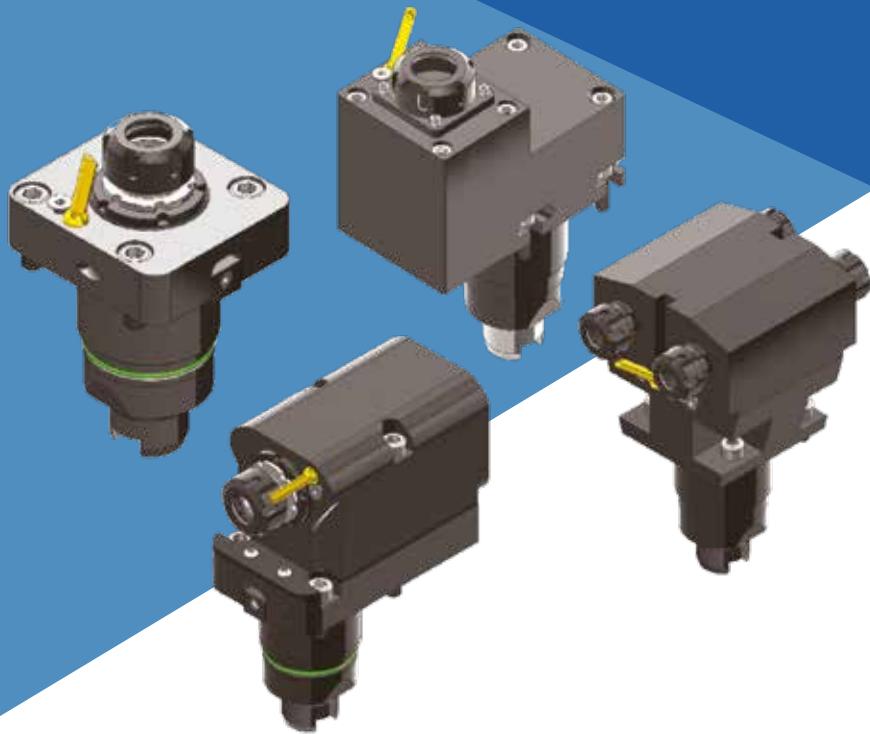
I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

NUOVA GAMMA  
NEW RANGE

**TSUGAMI**  
**BMT65**



Type	d	h1	f1	f2	f3	f4
BMT65	65	106,5	72	39	66	100



**DOTAZIONE STANDARD**  
STANDARD EQUIPMENT

Chiave bloccaggio albero Art.179CH / ugello refrigerazione Art.183 / vite bloccaggio ugello / viti bloccaggio motorizzato / O-ring  
Art.179CH Tool shaft lock wrench / cooling nozzle Art.183 / nozzle lock screws / driven tool locking screws / O-ring



**CAMBI RAPIDI MODULARI** Vedi pag. 5.132  
MODULAR QUICK CHANGE See page 5.132

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER (DIN6499)  
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

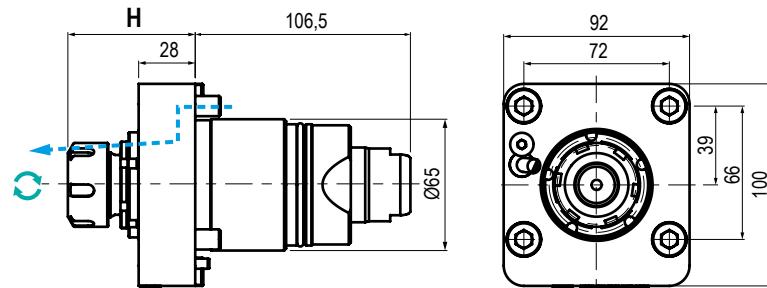
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

TSUGAMI

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**BMT  
65**

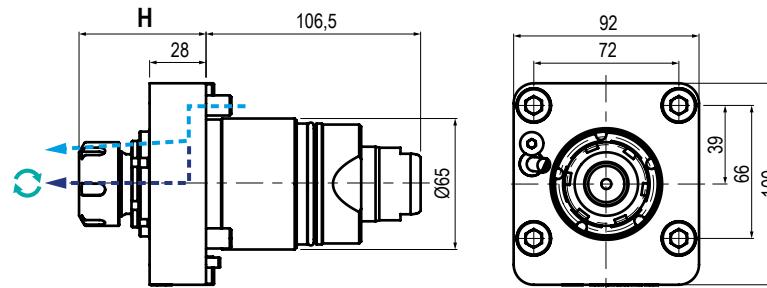
**NEW**



	TIPO - TYPE Assiale - Axial		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE Esterno External COOLANT		RATIO 1:1		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.TS.A01	ER-25 - Ø1÷16	NO	55÷60	40	8.000	8	
99.TS.A03	ER-32 - Ø2÷20	NO	62÷67	40	8.000	8	

**NEW**



	TIPO - TYPE Assiale - Axial		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT 70BAR		RATIO 1:1		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
--	--------------------------------	--	--	--	----------------------------------	--	--------------	--	---

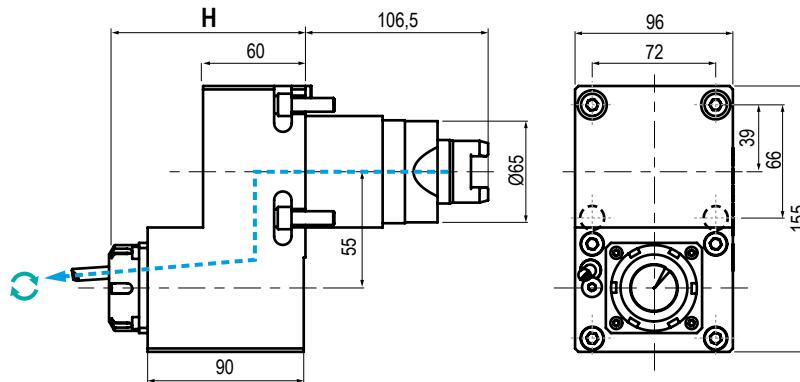
Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.TS.A02	ER-25 - Ø1÷16	✓	55÷60	40	8.000	8	
99.TS.A04	ER-32 - Ø2÷20	✓	62÷67	40	8.000	8	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

TSUGAMI

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

NEW



TIPO - TYPE  
Disassato  
Offset Axis



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



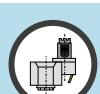
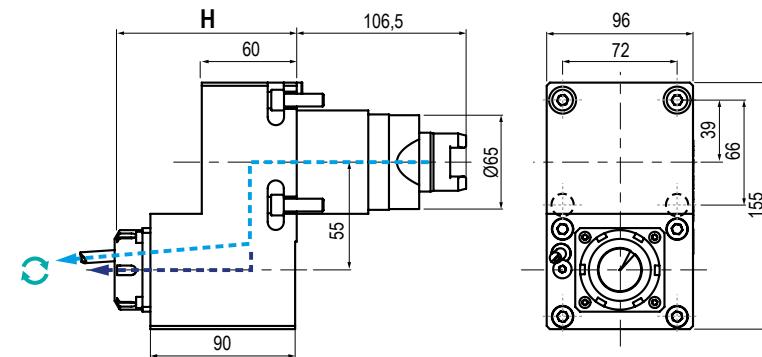
RATIO  
1:1



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.TS.A05	ER-25 - Ø1÷16	NO	93÷98	40	8.000	8	

NEW



TIPO - TYPE  
Disassato  
Offset Axis



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**100BAR**



RATIO  
1:1



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

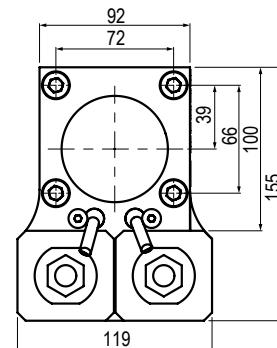
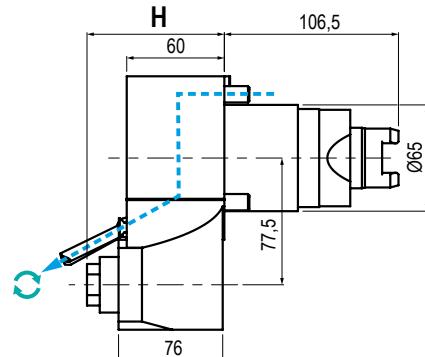
Code	Output	Int Cool.	H	Nm	Rpm	kw	
99.TS.A06	ER-25 - Ø1÷16	✓	93÷98	40	8.000	8	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

TSUGAMI

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

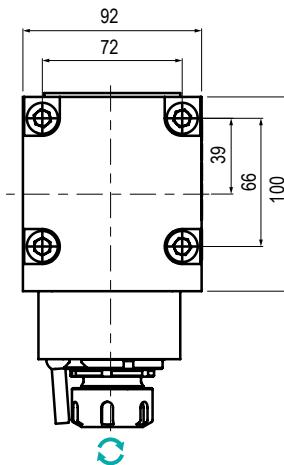
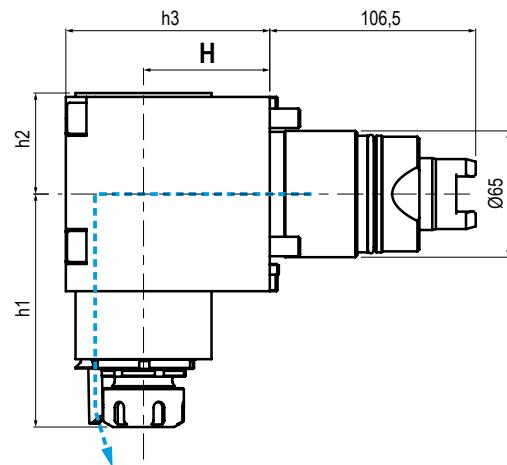
**NEW**



	TIPO - TYPE Disassato Doppio Double Axial Offset		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT Esterno External		RATIO 1:1		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
<b>Code</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>		<b>Nm</b>	<b>Rpm</b>	<b>kw</b>		
99.TS.A07	ER-20 - Ø1÷16	NO	84÷89		45	6.000	4,5		

5

**NEW**



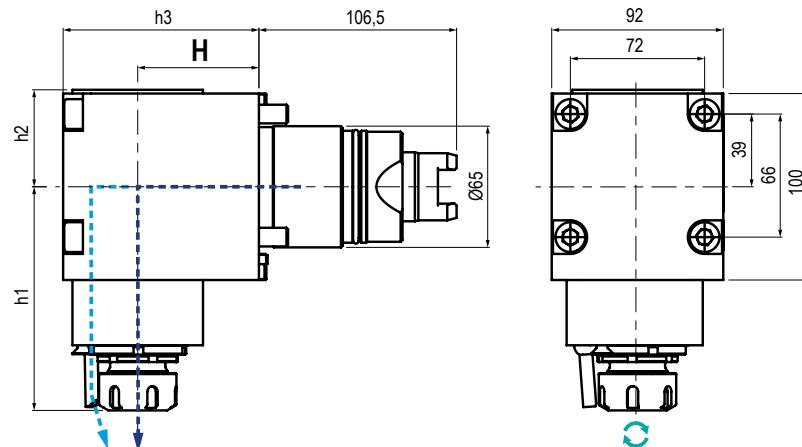
	TIPO - TYPE Radiale - Radial		USCITA - OUTPUT Portapinza Collet Chuck		REFRIGERANTE COOLANT Esterno External		RATIO 1:1		ROTAZIONE - ROTATION Uguale al mandrino Same as machine spindle
<b>Code</b>	<b>Output</b>	<b>Int Cool.</b>	<b>H</b>	<b>h1</b>	<b>h2</b>	<b>h3</b>	<b>Nm</b>	<b>Rpm</b>	<b>kw</b>
99.TS.A08	ER-25 - Ø1÷16	NO	65	117,3÷120	60	105	40	8.000	8
99.TS.A10	ER-32 - Ø2÷20	NO	65	124÷127	60	105	40	8.000	8
99.TS.A12	ER-25 - Ø1÷16	NO	85	117,3÷120	60	118	40	8.000	8
99.TS.A14	ER-32 - Ø2÷20	NO	85	117,3÷120	60	118	40	8.000	8

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**TSUGAMI**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

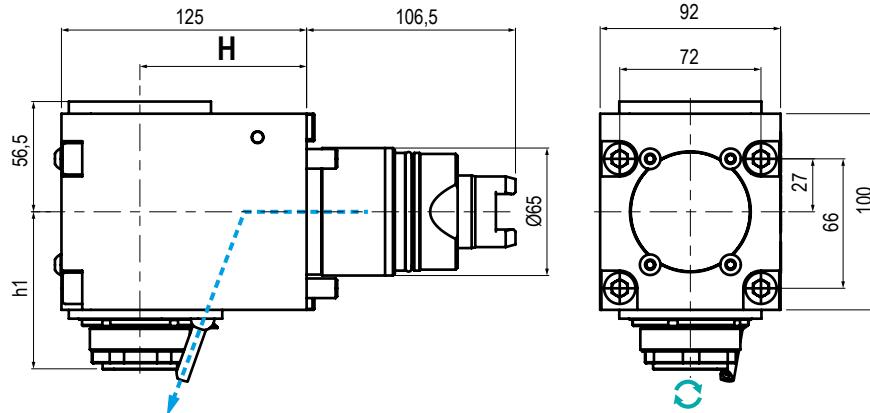
**NEW**



TIPO - TYPE 	Radiale - Radial	USCITA - OUTPUT 	Portapinza Collet Chuck	REFRIGERANTE COOLANT 	100BAR	RATIO 	ROTAZIONE - ROTATION 	Uguale al mandrino Same as machine spindle
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Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw
99.TS.A09	ER-25 - Ø1÷16	✓	65	117÷122	105	40	8.000	8
99.TS.A11	ER-32 - Ø2÷20	✓	65	124÷127	105	40	8.000	8
99.TS.A13	ER-25 - Ø1÷16	✓	85	117÷122	118	40	8.000	8
99.TS.A15	ER-32 - Ø2÷20	✓	85	124÷127	118	40	8.000	8

**NEW**



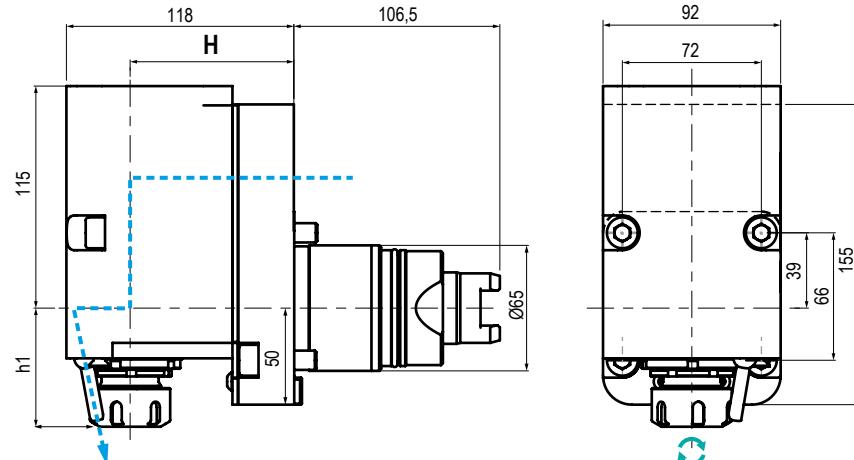
TIPO - TYPE 	Radiale - Radial	USCITA - OUTPUT 	Portapinza Collet Chuck	REFRIGERANTE COOLANT 	Esterno External	RATIO 	ROTAZIONE - ROTATION 	Uguale al mandrino Same as machine spindle
99.TS.A16	ER-32 - Ø2÷20	NO	85	76÷81	70	8.000	8	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**TSUGAMI**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

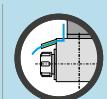
**NEW**



TIPO - TYPE  
Arretrato  
Rear Offset



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



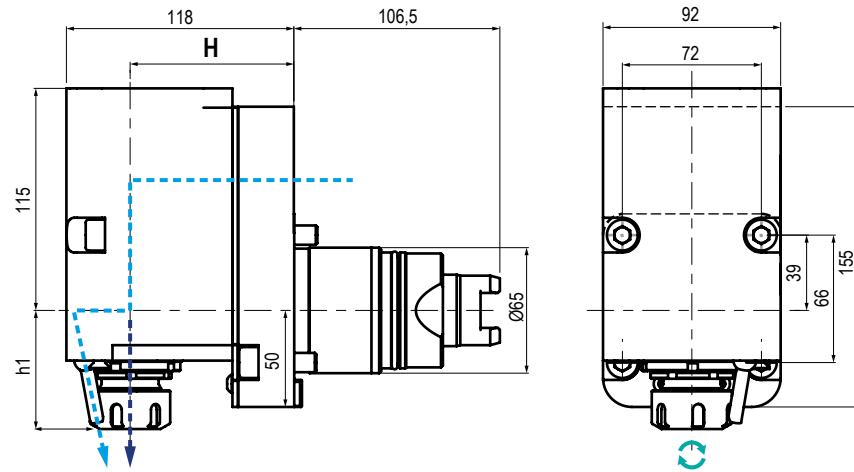
RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	Nm	Rpm	kw
99.TS.A17	ER-25 - Ø1÷16	NO	85	40	8.000	8
99.TS.A19	ER-32 - Ø2÷20	NO	85	40	8.000	8

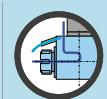
**NEW**



TIPO - TYPE  
Arretrato  
Rear Offset



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**100BAR**



RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

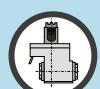
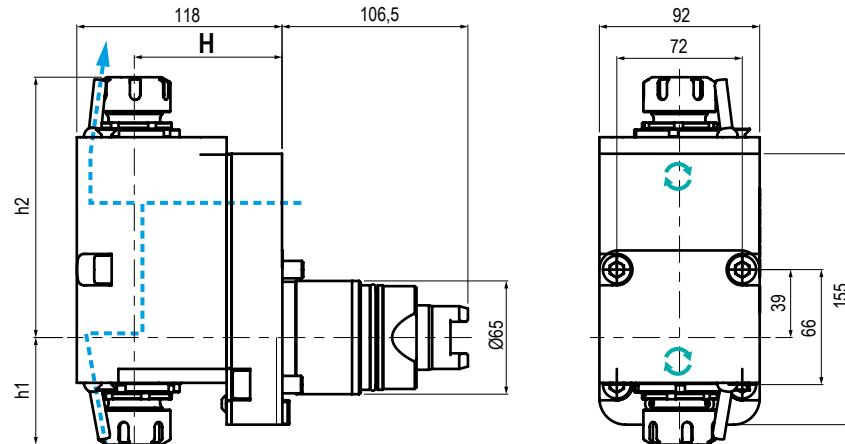
Code	Output	Int Cool.	H	Nm	Rpm	kw
99.TS.A18	ER-25 - Ø1÷16	✓	85	40	8.000	8
99.TS.A20	ER-32 - Ø2÷20	✓	85	40	8.000	8

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**TSUGAMI**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

**NEW**



TIPO - TYPE  
Arretrato Doppio  
Double Rear Offset



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



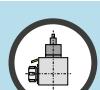
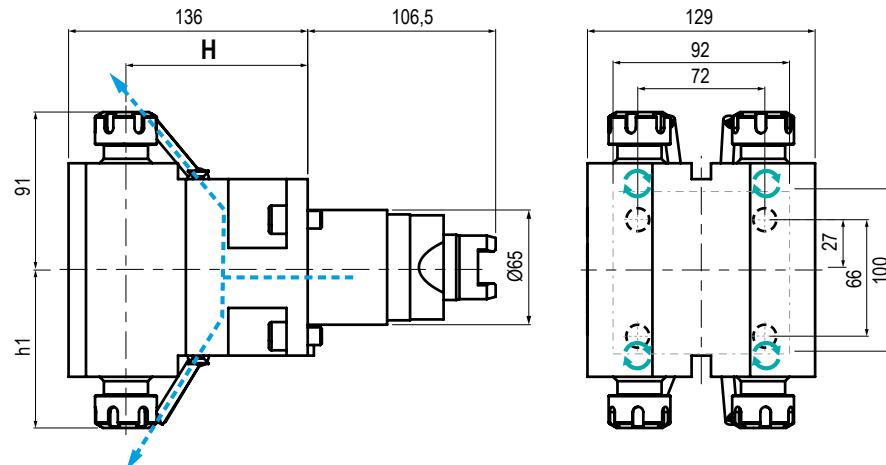
RATIO  
1:1



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	Nm	Rpm	kw
99.TS.A21	ER-25 - Ø1÷16	NO	85	Ø56,5÷61,6	40	8.000	8
99.TS.A22	ER-32 - Ø2÷20	NO	85	Ø65÷70	40	8.000	8

**NEW**



TIPO - TYPE  
Radiale 4 Uscite  
4 Outputs Radial



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



RATIO  
1:1



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

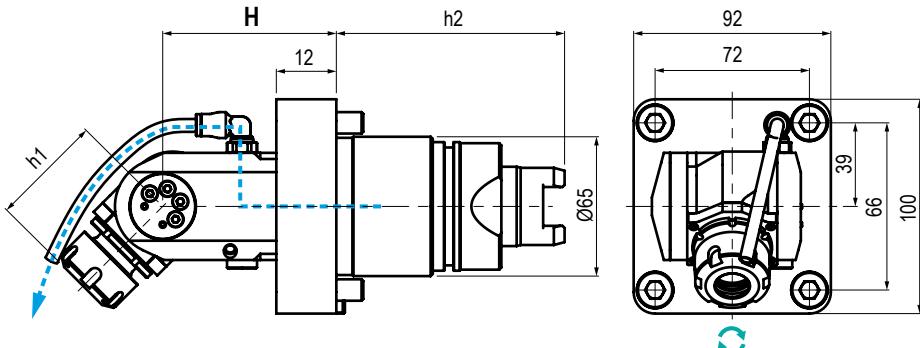
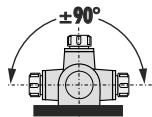
Code	Output	Int Cool.	H	h1	Nm	Rpm	kw
99.TS.A23	ER-20 - Ø1÷13	NO	103	Ø83÷88	40	6.000	3,5

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**TSUGAMI**

Vedi pagine compatibilità 5.8 / 5.9 - See compatibility pages 5.8 / 5.9

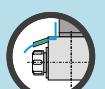
**NEW**



TIPO - TYPE  
Orientabile ±90°  
±90° Adjustable



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
Esterno  
External



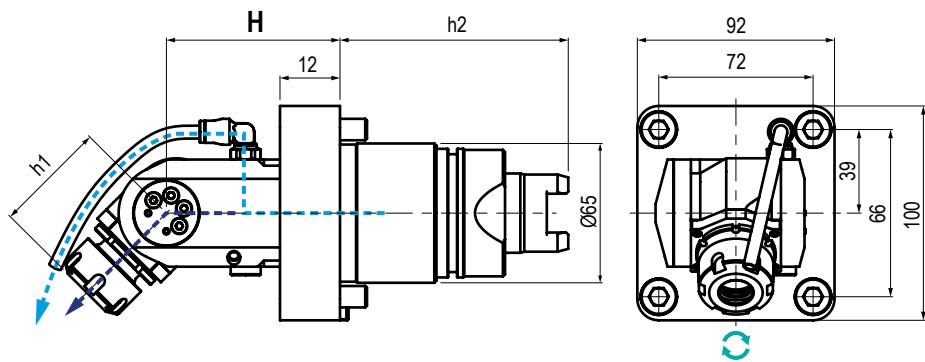
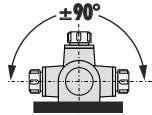
RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.TS.A24	ER-20 - Ø1÷13	NO	65	49÷52	-	15	8.000	3	

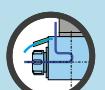
**NEW**



TIPO - TYPE  
Orientabile ±90°  
±90° Adjustable



USCITA - OUTPUT  
Portapinza  
Collet Chuck



REFRIGERANTE  
COOLANT  
**70BAR**



RATIO  
**1:1**



ROTAZIONE - ROTATION  
Uguale al mandrino  
Same as machine spindle

Code	Output	Int Cool.	H	h1	h2	Nm	Rpm	kw	
99.TS.A25	ER-20 - Ø1÷13	✓	65	49÷52	-	40	8.000	8	



# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

NEW

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

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant..

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



### Modelli 2.0 Types:

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Sistema di portautensili modulari adatti al montaggio su qualsiasi tipologia di uscita ER.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Modular toolholder system suitable for every Driven Tool ER collet output.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- All modular quick change 2.0 adaptors are suitable for ER toolholder with external and internal coolant supply



**CAMBI RAPIDI MODULARI 2.0  
A FORTE SERRAGGIO !  
HIGH TORQUE QUICK  
CHANGE ADAPTORS 2.0**

Ghiera con cuscinetto a sfera per un serraggio più rigido e losanga di trascinamento removibile

Ball bearing nut for the highest torque clamping and removable diamond plate.



**ECONOMICI  
MONEY SAVER**

I cambi rapidi modulari ti aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors



**GRANDE VERSATILITÀ &  
MAGGIORE PRESTAZIONE  
VERSATILITY & PERFORMANCE IMPROVED**

Ampia gamma di uscite disponibili. Ghiera cuscinetto e losanga di trascinamento per una maggiore rigidità.

Wide range of outputs available. Ball bearing nut and diamond plate for highest rigidity.



**ESTREMA COMPATIBILITÀ  
EXTREME COMPATIBILITY**

I cambi rapidi modulari possono essere montati su ogni tipo di Motorizzato o Testa angolare con uscita ER.

The quick change adaptors can be mounted on any type of Driven Tool or right Angle Head with ER output.

**NEW**

## ACCESSORIES DRIVEN TOOLS



5



### ACCESSORI MOTORIZZATI DRIVEN TOOLS ACCESSORIES

Ampia gamma di accessori e parti di ricambio per tutta la gamma di motorizzati Gerardi.

Wide range of accessories and spare parts for all types of Gerardi driven tools

# CAMBI RAPIDI MODULARI 2.0

## MODULAR QUICK CHANGE ADAPTORS 2.0

Per Ghiere Interne con filetto esterno - For Internal nuts with external thread

Sono un facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede dell'utensile per pinza ER.

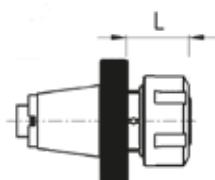
Idonei a refrigerazione esterna o interna.

They are a modular toolholder system for the fitting of toolholders in a spindle unit with ER collets outputs.

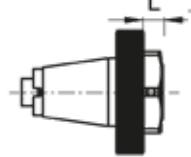
All Adaptors are suitable for external and internal coolant.



ART. 182A PORTAPINZA - COLLET CHUCK

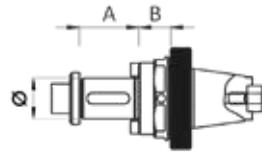


ENTRATA INPUT	L	USCITA OUTPUT	Code	
ER25	29	ER 16	9.HT.ER25I.16E	
	31	ER 20	9.HT.ER25I.20E	
	31	ER 25	9.HT.ER25I.25E	
ER32	29	ER 20	9.HT.ER32I.20E	
	31	ER 25	9.HT.ER32I.25E	
	35	ER 32	9.HT.ER32I.32E	
ER40	31	ER 25	9.HT.ER40I.25E	
	35	ER 32	9.HT.ER40I.32E	
	40	ER 40	9.HT.ER40I.40E	



ART. 182D PORTAPINZA - COLLET CHUCK

ENTRATA INPUT	L	USCITA OUTPUT	Code	
ER25	9	ER 11	9.HT.ER25I.11I	
	11	ER 16	9.HT.ER25I.16I	
ER32	11	ER 20	9.HT.ER32I.20I	
	11	ER 25	9.HT.ER32I.25I	
ER40	12	ER 25	9.HT.ER40I.25I	
	14	ER 32	9.HT.ER40I.32I	



ART. 182B PORTAFRESA - SHELL END MILL CUTTER\*

ENTRATA INPUT	A (mm)	B	USCITA OUTPUT	Code	
ER25	27	16	Ø16	9.HT.ER25I.P16	
	31	16	Ø22	9.HT.ER25I.P22	
ER32	27	17	Ø16	9.HT.ER32I.P16	
	31	17	Ø22	9.HT.ER32I.P22	
ER40	31	20	Ø22	9.HT.ER40I.P22	
	-	-	Ø27	9.HT.ER40I.P27	
ER50	-	-	-	-	



ART. 182E PORTAPINZA - COLLET CHUCK

ENTRATA INPUT	L	USCITA OUTPUT	Code	
ER25	30	ER 11	9.HT.ER25I.11EL	
	40	ER 16	9.HT.ER25I.16EL	
	40	ER 11	9.HT.ER32I.11EL	
ER32	50	ER 16	9.HT.ER32I.16EL	
	50	ER 20	9.HT.ER32I.20EL	
	50	ER 16	9.HT.ER40I.16EL	
ER40	50	ER 20	9.HT.ER40I.20EL	
	50	ER 25	9.HT.ER40I.25EL	



ART. 182C PORTA WELDON - CLAMPING CHUCK FOR ROUND SHAFT (Weldon)

ENTRATA INPUT	L	L1 (mm)	Ø1	Ø	Code	
ER25	28	36	6	19	9.HT.ER25I.W06	
	28	36	8	21	9.HT.ER25I.W08	
	29	40	10	28	9.HT.ER25I.W10	
	31	45	12	34	9.HT.ER25I.W12	
	31	45	14	36	9.HT.ER25I.W14	
	28	36	6	19	9.HT.ER32I.W06	
ER32	28	36	8	21	9.HT.ER32I.W08	
	29	40	10	28	9.HT.ER32I.W10	
	31	45	12	34	9.HT.ER32I.W12	
	31	45	14	36	9.HT.ER32I.W14	
	34	49	16	38	9.HT.ER32I.W16	
	34	49	18	40	9.HT.ER32I.W18	
ER40	36	51	20	45	9.HT.ER32I.W20	
	28	36	6	19	9.HT.ER40I.W06	
	28	36	8	21	9.HT.ER40I.W08	
	29	40	10	28	9.HT.ER40I.W10	
	31	45	12	34	9.HT.ER40I.W12	
	31	45	14	36	9.HT.ER40I.W14	
ER50	34	49	16	38	9.HT.ER40I.W16	
	34	49	18	40	9.HT.ER40I.W18	
	36	51	20	45	9.HT.ER40I.W20	
	28	36	6	19	9.HT.ER50I.W06	
	28	36	8	21	9.HT.ER50I.W08	
	29	40	10	28	9.HT.ER50I.W10	
ER50	31	45	12	34	9.HT.ER50I.W12	
	31	45	14	36	9.HT.ER50I.W14	
	34	49	16	38	9.HT.ER50I.W16	
	34	49	18	40	9.HT.ER50I.W18	
	36	51	20	45	9.HT.ER50I.W20	
ER50	36	57	25	51	9.HT.ER50I.W25	

# CAMBI RAPIDI MODULARI 2.0

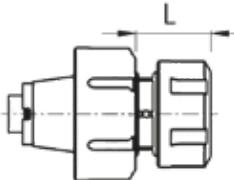
## MODULAR QUICK CHANGE ADAPTORS 2.0



Per Ghiere esterne con filetto interno - For external nuts with internal thread

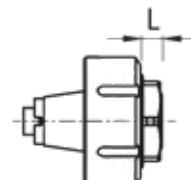
L'estrema compatibilità permette vengano montati su qualsiasi tipo di motorizzato o testa angolare con uscita ER standard.

The extreme compatibility & accuracy allow they can be mounted on any type of Driven Tools or right Angle Heads with ER output.


NEW


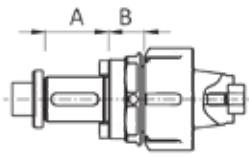
**ART. 183A** PORTAPINZA - COLLET CHUCK

ENTRATA INPUT	L	USCITA OUTPUT	Code	
ER25	29	ER 16	9.HT.ER25E.16E	
	31	ER 20	9.HT.ER25E.20E	
	31	ER 25	9.HT.ER25E.25E	
ER32	29	ER 20	9.HT.ER32E.20E	
	31	ER 25	9.HT.ER32E.25E	
	35	ER 32	9.HT.ER32E.32E	
ER40	31	ER 25	9.HT.ER40E.25E	
	35	ER 32	9.HT.ER40E.32E	
	40	ER 40	9.HT.ER40E.40E	


NEW


**ART. 183D** PORTAPINZA - COLLET CHUCK

ENTRATA INPUT	L	USCITA OUTPUT	Code	
ER25	9	ER 11	9.HT.ER25E.11I	
	11	ER 16	9.HT.ER25E.16I	
ER32	11	ER 20	9.HT.ER32E.20I	
	11	ER 25	9.HT.ER32E.25I	
ER40	12	ER 25	9.HT.ER40E.25I	
	14	ER 32	9.HT.ER40E.32I	


NEW


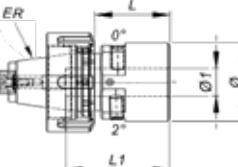
**ART. 183B** PORTAFRESA - SHELL END MILL CUTTER\*

ENTRATA INPUT	A (mm)	B (mm)	USCITA OUTPUT	Code	
ER25	27	16	Ø16	9.HT.ER25E.P16	
	31	16	Ø22	9.HT.ER25E.P22	
ER32	27	17	Ø16	9.HT.ER32E.P16	
	31	17	Ø22	9.HT.ER32E.P22	
ER40	31	20	Ø22	9.HT.ER40E.P22	
	-	-	Ø27	9.HT.ER40E.P27	
ER50	-	-	-	-	


NEW

**ART. 183E** PORTAPINZA - COLLET CHUCK

ENTRATA INPUT	L	USCITA OUTPUT	Code	
ER25	30	ER 11	9.HT.ER25E.11EL	
	40	ER 16	9.HT.ER25E.16EL	
ER32	40	ER 11	9.HT.ER32E.11EL	
	50	ER 16	9.HT.ER32E.16EL	
ER40	50	ER 20	9.HT.ER40E.20EL	
	50	ER 16	9.HT.ER40E.16EL	
ER40	50	ER 20	9.HT.ER40E.20EL	
ER40	50	ER 25	9.HT.ER40E.25EL	


NEW


**ART. 183C** PORTA WELDON - CLAMPING CHUCK FOR ROUND SHAFT (Weldon)

ENTRATA INPUT	L (mm)	L1 (mm)	Ø1	Ø	Code	
ER25	28	36	6	19	9.HT.ER25E.W06	
	28	36	8	21	9.HT.ER25E.W08	
	29	40	10	28	9.HT.ER25E.W10	
	31	45	12	34	9.HT.ER25E.W12	
	31	45	14	36	9.HT.ER25E.W14	
ER32	28	36	6	19	9.HT.ER32E.W06	
	28	36	8	21	9.HT.ER32E.W08	
	29	40	10	28	9.HT.ER32E.W10	
	31	45	12	34	9.HT.ER32E.W12	
	31	45	14	36	9.HT.ER32E.W14	
	34	49	16	38	9.HT.ER32E.W16	
	34	49	18	40	9.HT.ER32E.W18	
ER40	36	51	20	45	9.HT.ER32E.W20	
	28	36	6	19	9.HT.ER40E.W06	
	28	36	8	21	9.HT.ER40E.W08	
	29	40	10	28	9.HT.ER40E.W10	
	31	45	12	34	9.HT.ER40E.W12	
	31	45	14	36	9.HT.ER40E.W14	
	34	49	16	38	9.HT.ER40E.W16	
ER50	34	49	18	40	9.HT.ER40E.W18	
	36	51	20	45	9.HT.ER40E.W20	
	28	36	6	19	9.HT.ER50E.W06	
	28	36	8	21	9.HT.ER50E.W08	
	29	40	10	28	9.HT.ER50E.W10	
	31	45	12	34	9.HT.ER50E.W12	
	31	45	14	36	9.HT.ER50E.W14	
ER50	34	49	16	38	9.HT.ER50E.W16	
	34	49	18	40	9.HT.ER50E.W18	
	36	51	20	45	9.HT.ER50E.W20	
	36	57	25	51	9.HT.ER50E.W25	

## PINZE - COLLETS ER-DIN 6499

PRECISIONE - RUN OUT

≤ 0,010



**PINZA ER COLLET**  
**Art. 170/ER**

**Foratura-fresatura**  
Drilling-milling

<b>PINZA COLLET</b>	<b>Ø</b>	<b>Code</b>	
ER-11	Ø1 / 7	9.ER.11000 / 1 (Ø1)	
ER-16	Ø1 / 10	9.ER.16000 / 1 (Ø1)	
ER-20	Ø1 / 13	9.ER.20000 / 1 (Ø1)	
ER-25	Ø1 / 16	9.ER.25000 / 1 (Ø1)	
ER-32	Ø2 / 20	9.ER.32000 / 2 (Ø2)	
ER-40	Ø3 / 30	9.ER.40000 / 3 (Ø3)	



**PINZA ET-1 COLLET**  
**Art. 170/C**

**Maschiatura - Tapping**

<b>PINZA COLLET</b>	<b>Ø</b>	<b>Code</b>	
-	-	-	
ER-16 (M2-28)	Ø1,4 / 6	9.ET.16000	
ET-1-20 (M2-28)	Ø2,2 / 7	9.ET.20000	
ET-1-25 (M2-12)	Ø2,5 / 10	9.ET.25000	
ET-1-32 (M3,5-M16)	Ø4,5 / 12,5	9.ET.32000	
ET-1-32 (M6-16)	Ø6 / 15	9.ET.32000	



**SET PINZE ER COLLET SET**  
**Art. 170/WP**

**Resistenti all'acqua - Waterproof**

<b>PINZA COLLET</b>	<b>Ø</b>	<b>Code</b>	
ER-11	Ø1÷7	9.WP.11000 / 3 (Ø3)	
ER-16	Ø1÷10	9.WP.16000 / 3 (Ø3)	
ER-20	Ø2÷13	9.WP.20000 / 3 (Ø3)	
ER-25	Ø2÷16	9.WP.25000 / 3 (Ø3)	
ER-32	Ø3÷20	9.WP.32000 / 3 (Ø3)	
ER-40	Ø4÷26	9.WP.40000 / 4 (Ø4)	

Pinze HP su richiesta (Capitolo 7, Pag. 7.6) - HP Collets on request (Chapter 7 - Page 7.6)

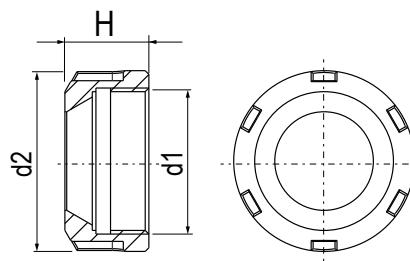
Esempio di ordinazione - Example to order : **ER25-Ø10 = 9.ER.25000/10**

## GHIERE - NUTS STD



**GHIERA STD NUT**  
**Art. 172**

**Ghiera standard**  
Standard Nut



<b>TIPO GHIERA</b> <b>NUT TYPE</b>	<b>d1</b>	<b>d2</b>	<b>H</b>	<b>Code</b>	
ER-16 STD	M22x1,5	32	17,5	9.ER.16STD	
ER-20 STD	M25x1,5	35	19	9.ER.20STD	
ER-25 STD	M32x1,5	42	20	9.ER.25STD	
ER-32 STD	M40x1,5	50	22,5	9.ER.32STD	
ER-40 STD	M50x1,5	63	25,5	9.ER.40STD	
ER-50 STD	M64x1,5	48	35,5	9.ER.50STD	

## CHIAVI - WRENCHES STD



**CHIAVE STD WRENCH**  
**Art. 172/CH**

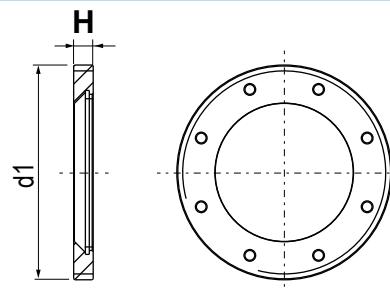
**Chiave per ghiera standard**  
Wrench for standard nut

<b>CHIAVI</b> <b>WRENCHES</b>	<b>Code</b>	
CH-16 STD	9.CH.16STD	
CH-20 STD	9.CH.20STD	
CH-25 STD	9.CH.25STD	
CH-32 STD	9.CH.32STD	
CH-40 STD	9.CH.40STD	
CH-50 STD	9.CH.50STD	

## GHIERE - NUTS EF - ZZ



Ghiera EF Nut  
Art. 173



**Ghiera con filetto esterno e fori frontalini - Filetto interno**  
Nut with external thread and frontal holes - Internal thread

TIPO GHIERA NUT TYPE	d1	H	Code	
ER-16 EF	M24x1	8	<a href="#">9.ER.160EF</a>	
ER-20 EF	M28x1,5	11	<a href="#">9.ER.200EF</a>	
ER-25 EF	M32x1,5	12	<a href="#">9.ER.250EF</a>	
ER-32 EF	M40x1,5	14	<a href="#">9.ER.320EF</a>	

## CHIAVI - WRENCHES EF - ZZ



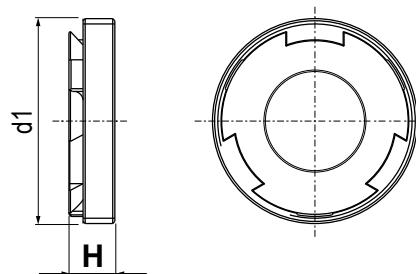
Chiave EF Wrench  
Art. 173/CH

**Chiave per ghiera con fori frontalini**  
Wrench for nut with frontal holes

CHIAVI WRENCHES	Code	
CH-16 EF	<a href="#">9.CH.160EF</a>	
CH-20 EF	<a href="#">9.CH.200EF</a>	
CH-25 EF	<a href="#">9.CH.250EF</a>	
CH-32 EF	<a href="#">9.CH.320EF</a>	



Ghiera ZZ Nut  
Art. 174



Avvitatore  
Screw on adapter

**Ghiera compatta a settori frontalini + Avvitatore - Filetto esterno**  
Compact frontal nut + Screw on adapter - External thread

**NON VENDIBILI SEPARATAMENTE - NOT SALEABLE SEPARATELY**

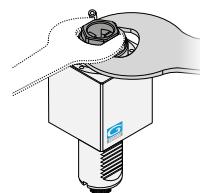
TIPO GHIERA NUT TYPE	d1	H	Code	€
ER-16 ZZ	M24x1	6	<a href="#">9.ER.160ZZ</a>	
ER-20 ZZ	M28x1,5	6,5	<a href="#">9.ER.200ZZ</a>	
ER-25 ZZ	M32x1,5	7	<a href="#">9.ER.250ZZ</a>	
ER-32 ZZ	M40x1,5	7,5	<a href="#">9.ER.320ZZ</a>	
ER-40 ZZ	M50x1,5	10	<a href="#">9.ER.400ZZ</a>	

## CHIAVI - WRENCHES VDI

SEMPRE INCLUSA - ALWAYS INCLUDED



ES esagonale | 4S 4 settori | 5S 5 settori | 6S 6 settori



Chiave - Wrench  
**Art. 179/CH**

### Chiavi bloccaggio albero portautensile

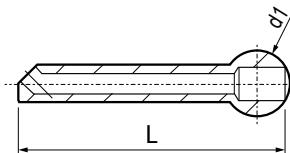
Driven Tools shank lock wrenches

CHIAVI WRENCHES		MOTORIZZATI DRIVEN TOOLS	Code	
	ES	Din5480 / Din5482 / Baruffaldi / Din1809 / Biglia Dmg Mori / Haas/Tsugami	Vedi pag 4.48 See page 4.48	Vedi pag 4.48 See page 4.48
	4S	Dmg Mori / Mazak Miyano / Nakamura	9.CH.XXX4S	
	5S	Okuma	9.CH.XXX5S	
	6S	Bmt / Dmg Mori / Haas / Mazak / Miyano / Nakamura	9.CH.XXX6S	

**ATTENZIONE:** Prima dell'ordine specificare sempre il codice del motorizzato in vostro possesso

**ATTENTION:** Prima dell'ordine specificare sempre il codice del motorizzato in vostro possesso

## UGELLI REFRIGERAZIONE COOLING - NOZZLES



**UGELLO - NOOZE**  
**Art. 183**

**Ugello di refrigerazione**  
Cooling nozzle extensions

d1	L	Code	
12	49	9.RF.12490	
12	38	9.RF.12380	
12	18	9.RF.12180	



**VITE PF SCREW**  
**Art. 178**

**Vite di chiusura DIN6367 Portafresa**  
Shell end milling cutter Lock screw DIN6367

VITE SCREW	d1	d2	Code	
PF-16 VT	M8	20	9.PF.160VT	
PF-22 VT	M10	28	9.PF.220VT	
PF-27 VT	M12	35	9.PF.270VT	



**CHIAVE PF WRENCH**  
**Art. 178/CH**

**Chiave per vite di chiusura DIN6367**  
Wrench for lock screw

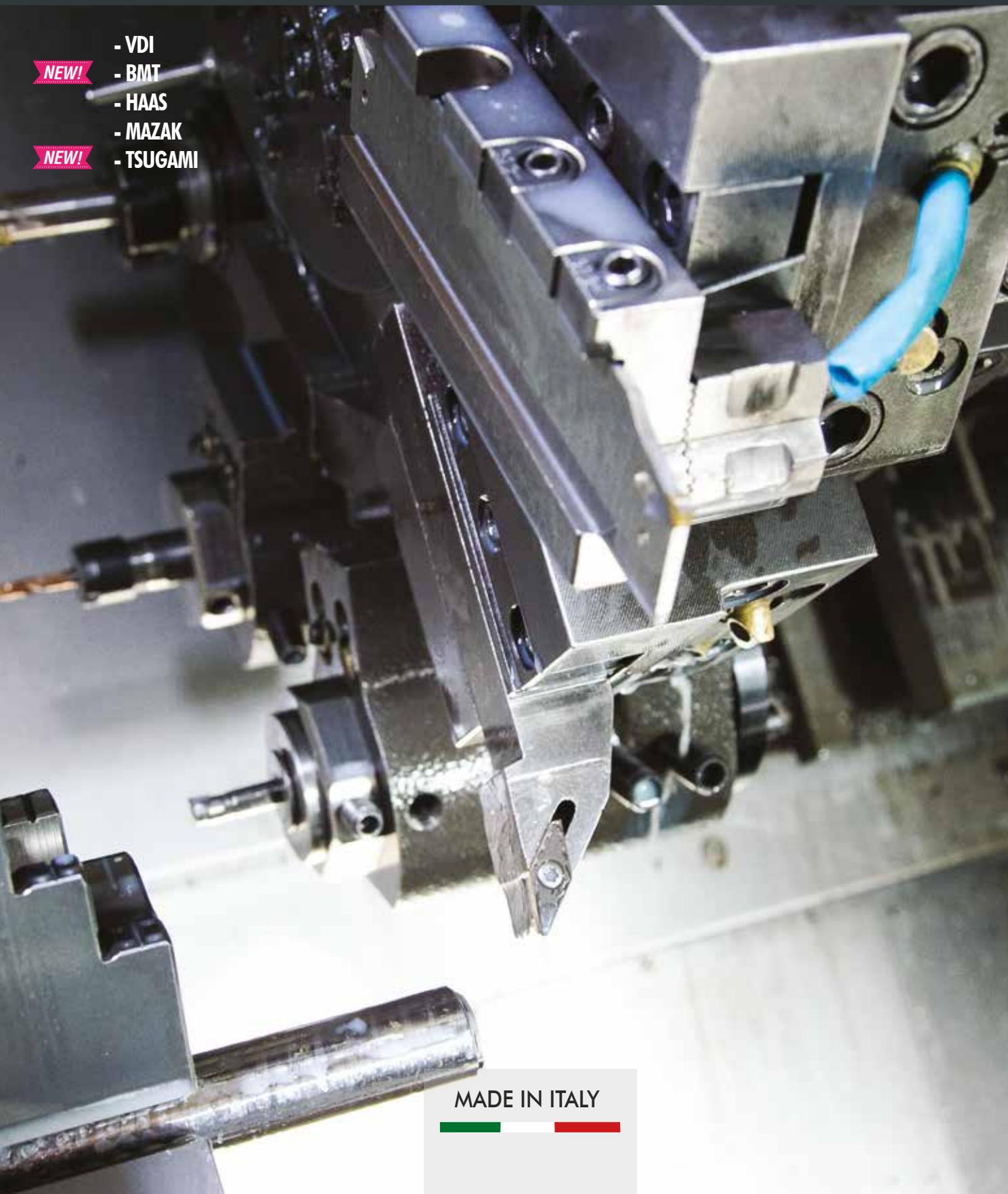
CHIAVI WRENCHES	Code	
CH16 PF	9.CH.160VT	
CH16 PF	9.CH.220VT	
CH16 PF	9.CH.270VT	



# GERARDI PORTAUTENSILI STATICI - STATIC TOOLS

- VDI
- BMT
- HAAS
- MAZAK
- TSUGAMI

**NEW!**



# INDICE - INDEX

PAGE 6.5 - 6.10

## VDI STATIC TOOLS DIN69880

SEMILAVORATO BLANK	PER PUNTE AD INSERTI FOR INDEXABLE DRILL
RADIALE RADIAL	PORTAPINZE ER COLLET CHUCK FOR ER COLLETS
RADIALE ROVESCIATO UPSIDE DOWN RADIAL	PORTAUTENSILI CON MORSE VISE TAPER HOLDER
RADIALE LUNGO RADIAL LONG	MASCHIATORE DOPPIA COMPENSAZIONE TENSION & COMPRESSION TAPPING HEAD
ASSIALE AXIAL	PORTA LAMA CUT OFF TOOL HOLDER
ASSIALE ROVESCIATO UPSIDE DOWN AXIAL	PORTA LAMA ROVESCIATO UPSIDE DOWN CUT OFF TOOL HOLDER
ROVESCIATO LUNGO LONG UPSIDE DOWN RADIAL	STRINGI BARRA BAR PULLER
A SEDEI MULTIPLE WITH MULTIPLE SEATS	TAPPI ACCIAIO STEEL TURRET CUPS
ROVESCIATO CON SEDEI MULTIPLE UPSIDE DOWN WITH MULTIPLE SEATS	TAPPI PLASTICA PLASTIC CUPS

PAGE 6.23 - 6.28

## HAAS DIN69880

PAGE 6.29 - 6.33

## MAZAK STATIC TOOLS

PAGE 6.34 - 6.37

### QTN1

PAGE 6.38 - 6.41

### QTN3

RADIALE RADIAL TOOLHOLDER	ARRETRATO QUADRO TURNING TOOL HOLDER	ARRETRATO QUADRO TURNING TOOL HOLDER	ARRETRATO QUADRO TURNING TOOL HOLDER
PER PUNTE AD INSERTI FOR INDEXABLE INSERT DRILL	PORTAUTENSILE A SFACCiare TURNING TOOL HOLDER REV	PORTAUTENSILE DOPPIO QUADRO DOUBLE TURNING TOOL HOLDER	PORTAUTENSILE DOPPIO QUADRO DOUBLE TURNING TOOL HOLDER
RADIALE ROVESCIATO UPSIDE DOWN RADIAL TOOL HOLDER	PORTA BARENO BORING BAR TOOL HOLDER	PORTAUTENSILE A SFACCiare TURNING TOOL HOLDER REV	PORTAUTENSILE A SFACCiare TURNING TOOL HOLDER REV
PORTBARENI BOARING BAR HOLDER	PORTA PUNTE U'DRILL TOOL HOLDER	PORTA PUNTE U'DRILL TOOL HOLDER	PORTA PUNTE U'DRILL TOOL HOLDER
ASSIALE ROVESCIATO UPSIDE DOWN AXIAL TOOL HOLDER	PORTA BARENO BORING BAR HOLDER	PORTA BARENO BORING BAR HOLDER	PORTA BARENO BORING BAR HOLDER
PORTA PINZE ER COLLET CHUCK FOR ER COLLETS	PORTAUTENSILE A SFACCiare TURNING HOLDER REV	PORTAUTENSILE A SFACCiare TURNING HOLDER REV	PORTAUTENSILE A SFACCiare TURNING HOLDER REV
<b>BMT 65</b>	PORTA PUNTE U'DRILL HOLDER	PORTA PUNTE U'DRILL HOLDER	PORTA PUNTE U'DRILL HOLDER
STEO QUADRO ASSIALE FACE AND ID CUTTING HOLDER	<b>BOLT ON</b>	<b>BOLT ON</b>	<b>BOLT ON</b>
STEO QUADRO RADIALE DOPPIO DOUBLE FACE AND OD HOLDER	ARRETRATO QUADRO TURNING TOOL HOLDER	ARRETRATO QUADRO TURNING TOOL HOLDER	ARRETRATO QUADRO TURNING TOOL HOLDER
STEO QUADRO RADIALE DOPPIO FACE AND OD CUTTING HOLDER	PORTAUTENSILE A SFACCiare TURNING HOLDER REV	PORTAUTENSILE A SFACCiare TURNING HOLDER REV	PORTAUTENSILE A SFACCiare TURNING HOLDER REV
STEO QUADRO RADIALE QUADRUPLO 4 FACE AND OD HOLDER	PORTA BARENO BORING BAR TOOL HOLDER	PORTA BARENO BORING BAR TOOL HOLDER	PORTA BARENO BORING BAR TOOL HOLDER
PORTA BARENO BORING BAR HOLDER	PORTA PUNTE U'DRILL TOOL HOLDER	PORTA PUNTE U'DRILL TOOL HOLDER	PORTA PUNTE U'DRILL TOOL HOLDER
PORTA BARENO DOPPIO DOUBLE BORING BAR HOLDER	<b>BORING BAR SOCKETS</b> BORING BAR SOCKETS	<b>BORING BAR SOCKETS</b> BORING BAR SOCKETS	<b>BORING BAR SOCKETS</b> BORING BAR SOCKETS
TAPPO ACCIAIO STEEL TURRET CUP			

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## BMT DRIVEN TOOLS

**44**

**55**

**65**

**75**

**85**

<b>PORTABRENO</b> BOARING BAR HOLDER	<b>FACE &amp; ID TOOL HOLDER</b> FACE & ID TOOL HOLDER	<b>FACE &amp; ID TOOL HOLDER</b> FACE & ID TOOLHOLDER	<b>RADIAL TOOL HOLDER</b> RADIAL TOOL HOLDER	<b>RADIAL TOOL HOLDER</b> RADIAL TOOL HOLDER
	<b>FACE &amp; OD TOOL HOLDER</b> FACE & OD TOOL HOLDER	<b>AXIAL TOOL HOLDER</b> AXIAL TOOL HOLDER	<b>AXIAL TOOL HOLDER</b> AXIAL TOOL HOLDER	<b>AXIAL TOOL HOLDER</b> AXIAL TOOL HOLDER
	<b>2 FACE &amp; OD TOOL HOLDER</b> 2 FACE & OD TOOL HOLDER	<b>FACE &amp; OD TOO LHOLDER</b> FACE & OD TOOL HOLDER	<b>BORING BAR TOOL HOLDER SLA60</b> BORING BAR TOOL HOLDER SLA60	<b>BORING BAR TOOL HOLDER</b> BORING BAR TOOL HOLDER
	<b>4 FACE AND OD TOOL HOLDER</b> 4 FACE AND OD TOOL HOLDER	<b>2 FACE &amp; OD TOO LHOLDER</b> 2 FACE AND OD TOO LHOLDER		
	<b>PORTA BARENO SLA38</b> BORING BAR TOOL HOLDER SLA38	<b>PORTA BARENO SLA40</b> BORING BAR TOOL HOLDER SLA40		
	<b>PORTA BARENO SLA20</b> BORING BAR TOOL HOLDER SLA20	<b>PORTA BARENO SLA50</b> BORING BAR TOOL HOLDER SLA50		
	<b>PORTA BARENO SLA25</b> BORING BAR TOOL HOLDER SLA25	<b>FACE &amp; OD TOOL HOLDER</b> FACE & OD TOOL HOLDER		

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## TSUGAMI STATIC TOOLS

**BMT65**

<b>STEO QUADRO SINGOLO</b> O.D CUTTING HOLDER
<b>STEO QUADRO SINGOLO DOPPIO</b> O.D DOUBLE CUTTING HOLDER
<b>STEO QUADRO QUADRUPLO</b> Y AXIS DOUBLE TOOL HOLDER
<b>STEO QUADRO ASSIALE</b> FACE AND ID CUTTING TOOL HOLDER
<b>PORTA LAMA</b> BLADE HOLDER
<b>PORTA BARENO STANDARD</b> BORING BAR TOOL HOLDER
<b>PORTA BARENO DISASSATO</b> AXIAL OFFSET BORING BAR
<b>PORTA BARENO DOPPIO</b> BORING BAR HOLDER

## NOVITÀ PORTA UTENSILI STATICI STATIC TOOL HOLDERS NEWS



### BMT static tools

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BMT45



### BMT

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BMT55



### BMT

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BMT65



### BMT

Pag. 6.20

BMT75



### BMT

Pag. 6.21

BMT85



### HAAS

BMT65

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### TSUGAMI static tools

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**VDI**

**PORTAUTENSILI STATICI - STATIC TOOLS**



**VDI  
DIN 69880**

**TIPO - TYPE VDI A1**  
 Semilavorato  
 Blank

Code	
T.A1-30x85	
T.A1-40x100	
T.A1-50x125	
T.A1-60x160	


**TIPO - TYPE VDI A2**  
 Semilavorato  
 Blank

 REFRIGERANTE  
 COOLANT  
**Esterno**  
**External**

Code	
T.A2-30x100	
T.A2-40x120	
T.A2-50x135	
T.A2-50x400	
T.A2-60x150	


**TIPO - TYPE VDI B1**  
 Portautensile radiale  
 Radial holder

Code	Orientation	
T.B1-30x20x40	Destro - Right	
T.B1-40x25x44	Destro - Right	
T.B1-50x32x55	Destro - Right	
T.B1-60x32x60	Destro - Right	


**TIPO - TYPE VDI B2**  
 Portautensile radiale  
 Radial holder

 REFRIGERANTE  
 COOLANT  
**Esterno**  
**External**

Code	Orientation	
T.B2-30x20x40	Sinistro - Left	
T.B2-40x25x44	Sinistro - Left	
T.B2-50x32x55	Sinistro - Left	
T.B2-60x32x60	Sinistro - Left	


**TIPO - TYPE VDI B3**  
 Radiale rovesciato  
 Upside-down radial holder

 REFRIGERANTE  
 COOLANT  
**Esterno**  
**External**

Code	Orientation	
T.B3-30x20x40	Destro - Right	
T.B3-40x25x44	Destro - Right	
T.B3-50x32x55	Destro - Right	
T.B3-60x32x60	Destro - Right	


**TIPO - TYPE VDI B4**  
 Radiale rovesciato  
 Upside-down radial holder

 REFRIGERANTE  
 COOLANT  
**Esterno**  
**External**

Code	Orientation	
T.B4-30x20x40	Sinistro - Left	
T.B4-40x25x44	Sinistro - Left	
T.B4-50x32x55	Sinistro - Left	
T.B4-60x32x60	Sinistro - Left	


**TIPO - TYPE VDI B5**  
 Radiale lungo  
 Long radial holder

 REFRIGERANTE  
 COOLANT  
**Esterno**  
**External**

Code	Orientation	
T.B5-30x20x40	Destro - Right	
T.B5-40x25x44	Destro - Right	
T.B5-50x32x55	Destro - Right	
T.B5-60x32x60	Destro - Right	



TIPO - TYPE **VDI B6**  
Radiale lungo  
Long radial holder



REFRIGERANTE  
COOLANT  
**Esterno**  
External

Code	Orientation
T.B6-30x20x40	Sinistro - Left
T.B6-40x25x44	Sinistro - Left
T.B6-50x32x55	Sinistro - Left
T.B6-60x32x60	Sinistro - Left



TIPO - TYPE **VDI B7**  
Rovesciato lungo  
Long upside down radial holder



REFRIGERANTE  
COOLANT  
**Esterno**  
External

Code	Orientation
T.B7-30x20x40	Destro - Right
T.B7-40x25x44	Destro - Right
T.B7-50x32x55	Destro - Right
T.B7-60x32x60	Destro - Right



TIPO - TYPE **VDI B8**  
Rovesciato lungo  
Long upside-down radial holder



REFRIGERANTE  
COOLANT  
**Esterno**  
External

Code	Orientation
T.B8-30x20x40	Sinistro - Left
T.B8-40x25x44	Sinistro - Left
T.B8-50x32x55	Sinistro - Left
T.B8-60x32x60	Sinistro - Left



TIPO - TYPE **VDI C1**  
Assiale  
Axial holder



REFRIGERANTE  
COOLANT  
**Esterno**  
External

Code	Orientation
T.C1-30x20x70	Destro - Right
T.C1-40x25x85	Destro - Right
T.C1-50x32x100	Destro - Right
T.C1-60x32x125	Destro - Right



TIPO - TYPE **VDI C2**  
Assiale  
Axial holder



REFRIGERANTE  
COOLANT  
**Esterno**  
External

Code	Orientation
T.C2-30x20x70	Sinistro - Left
T.C2-40x25x85	Sinistro - Left
T.C2-50x32x100	Sinistro - Left
T.C2-60x32x125	Sinistro - Left



TIPO - TYPE **VDI C3**  
Assiale rovesciato  
Upside down axial holder



REFRIGERANTE  
COOLANT  
**Esterno**  
External

Code	Orientation
T.C3-30x20x70	Destro - Right
T.C3-40x25x85	Destro - Right
T.C3-50x32x100	Destro - Right
T.C3-60x32x125	Destro - Right



TIPO - TYPE **VDI C4**  
Assiale rovesciato  
Upside-down axial holder



REFRIGERANTE  
COOLANT  
**Esterno**  
External

Code	Orientation
T.C4-30x20x70	Sinistro - Left
T.C4-40x25x85	Sinistro - Left
T.C4-50x32x100	Sinistro - Left
T.C4-60x32x125	Sinistro - Left



TIPO - TYPE **VDI D1**  
A sedi multiple  
With multiple seats



REFRIGERANTE  
COOLANT  
**Esterno**  
External

Code
T.D1-30x20x60
T.D1-40x25x72
T.D1-50x32x85
T.D1-60x32x110

TIPO - TYPE **VDI D2**Rovesciato con sedi multiple  
Upside down with multiple seatsREFRIGERANTE  
COOLANT**Esterno**  
External

Code	
T.D2-30x20x60	
T.D2-40x25x72	
T.D2-50x32x85	
T.D2-60x32x110	

TIPO - TYPE **VDI E1**Per punte ad inserti  
For indexable insert drillREFRIGERANTE  
COOLANT**Esterno & Interno**  
External & Internal

Code	
T.E1-30x... Ø 16, 20, 25, 32, 40	
T.E1-40x... Ø 16, 20, 25, 32, 40, 50	
T.E1-50x... Ø 16, 20, 25, 32, 40, 50	
T.E1-60x... Ø 16, 20, 25, 32, 40, 50	

TIPO - TYPE **VDI E1 WN**Whistle notch  
Whistle notch holderREFRIGERANTE  
COOLANT**Esterno**  
External

Code	
T.E1-30xWN... WN Ø 06,08,10,12,14,16,20	
T.E1-40xWN... WN Ø 06,08,10,12,14,16,20,25	

TIPO - TYPE **VDI E2**Portabreno  
Boaring bar holderREFRIGERANTE  
COOLANT**Esterno & Interno**  
External & Internal

Code	
T.E2-30x... Ø 06,08,10,12,16,20,25,32,40	
T.E2-40x... Ø 06,08,10,12,16,20,25,32,40,50	
T.E2-50x... Ø 08,10,12,16,20,25,32,40,50	
T.E2-60x... Ø 16,20,25,32,40,50	

TIPO - TYPE **VDI E4 - DIN6499**Portapinze ER  
Collet chuck for ER colletsREFRIGERANTE  
COOLANT**Esterno & Interno**  
External & Internal

Code	
T.E4-3016	
T.E4-3025	
T.E4-3032	
T.E4-3040	
T.E4-4025	
T.E4-4032	
T.E4-4040	
T.E4-5025	
T.E4-5032	
T.E4-5040	
T.E4-6032	
T.E4-6040	

TIPO - TYPE **VDI F**Portautensili con morse  
Vise taper holderREFRIGERANTE  
COOLANT**Esterno**  
External

Code	
T.VDI 30 MK1	
T.VDI 30 MK2	
T.VDI 30 MK3	
T.VDI 40 MK1	
T.VDI 40 MK2	
T.VDI 40 MK3	
T.VDI 40 MK4	
T.VDI 50 MK2	
T.VDI 50 MK3	
T.VDI 50 MK4	
T.VDI 50 MK5	
T.VDI 60 MK2	
T.VDI 60 MK3	
T.VDI 60 MK4	
T.VDI 60 MK5	



TIPO - TYPE **VDI GML**  
Maschiatore doppia compensazione  
Tension and compression tapping head



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	
T.VDI 30GR1 M3-M12	
T.VDI 30GR2 M6-M20	
T.VDI 40GR1 M3-M12	
T.VDI 40GR2 M6-M20	
T.VDI 40GR3 M14-M33	
T.VDI 50GR1 M3-M12	
T.VDI 50GR2 M6-M20	
T.VDI 50GR3 M14-M33	



TIPO - TYPE **VDI AR**  
Portalama  
Cut off tool holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	Orientation
T.AR-3026	Destro - Right
T.AR-3032	Destro - Right
T.AR-4026	Destro - Right
T.AR-4032	Destro - Right
T.AR-5026	Destro - Right
T.AR-5032	Destro - Right
T.AR-6032	Destro - Right



TIPO - TYPE **VDI ARU**  
Portalama rovesciato  
Upside-down cut off holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	Orientation
T.ARU-3026	Sinistro - Left
T.ARU-3032	Sinistro - Left
T.ARU-4026	Sinistro - Left
T.ARU-4032	Sinistro - Left
T.ARU-5026	Sinistro - Left
T.ARU-5032	Sinistro - Left



TIPO - TYPE **VDI AL**  
Portalama  
Cut off holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	Orientation
T.AL-3026	Sinistro - Left
T.AL-3032	Sinistro - Left
T.AL-4026	Sinistro - Left
T.AL-4032	Sinistro - Left



TIPO - TYPE **VDI SG**  
Stringibarra  
Bar puller

Code	
T.VDI30 Ø10-75mm	
T.VDI40 Ø10-75mm	
T.VDI50 Ø10-75mm	



TIPO - TYPE **VDI Z2**  
Tappi acciaio  
Steel turret caps

Code	
T.VDI 30 - AC	
T.VDI 40 - AC	
T.VDI 50 - AC	
T.VDI 60 - AC	



TIPO - TYPE **VDI Z2**  
Tappi plastica  
Plastic turret caps

Code	
T.VDI 30 - PL	
T.VDI 40 - PL	
T.VDI 50 - PL	
T.VDI 60 - PL	





NUOVA GAMMA  
NEW RANGE

**BMT**  
PORTAUTENSILI STATICI - STATIC TOOLS



6



**MODELLI DI TORNI COMPATIBILI**  
TURRET MODELS COMPATIBLES

**BMT45** LYNX 220 M/LM LYNX 220 LMS

**BMT55** PUMA 230-240M/MS-280LM / PUMA 1500-2000-2500M/MS/Y/SY  
PUMA 2100 SERIE - PUMA TT1500-TT1800MS/SY  
PUMA TL2000-2500 (M) - MX1600/2100TS

**BMT65**

PUMA 300M/MS - V400M - TT2000SY-TT2500SY-TT2500MS  
- PUMA 2600/3100 SERIE - MX2000ST - MX2500LT/ST/LST -  
MX2600-ST - VT 450M-TM - PUMA INVERTURN 3000M

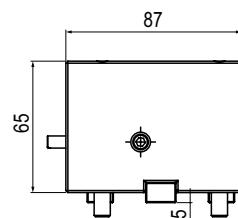
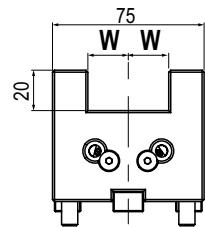
**BMT75**

PUMA 400 / PUMA 480M/LM/XLM - V550MVT 750M/TM

**BMT85**

VT900M/TM/M+18141VT1100M/M+18141  
PUMA 600M/LM/M+18141PUMA 700M/LM/M+18141 /  
PUMA 800M/LM

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

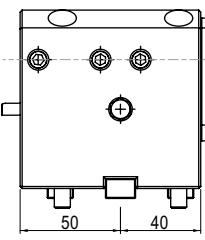
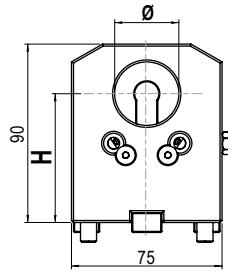
**LYNX 220 M/LM LYNX 220 LMS**
**BMT  
45**


TIPO - TYPE

Stelo quadro assiale  
Face and ID cutting holderREFRIGERANTE  
COOLANT  
Esterno  
External**Code****W**

T.BMT.45B12020H

	20	
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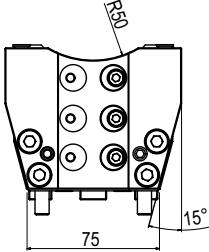
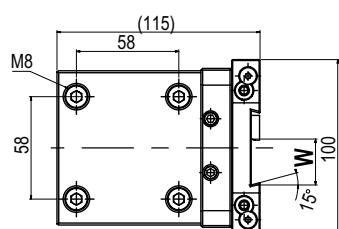


TIPO - TYPE

Portabareno  
Boring bar cutting holderREFRIGERANTE  
COOLANT  
Esterno  
External**Code****H**

T.BMT.45BB3265H

	65	
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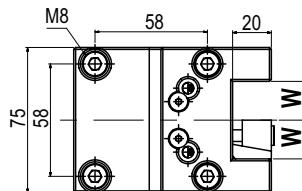
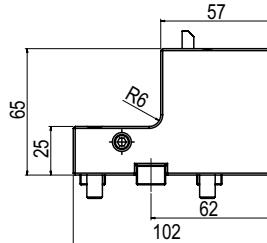
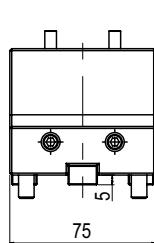


TIPO - TYPE

Porta Lama  
Cut off holderREFRIGERANTE  
COOLANT  
Esterno  
External**Code****W**

T.BMT.45H12600H

	26	
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TIPO - TYPE

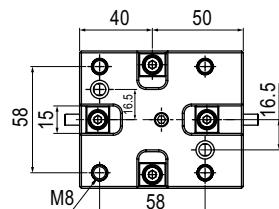
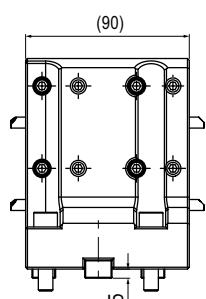
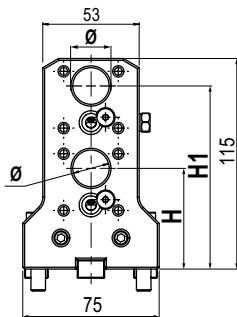
Stelo quadro radiale  
Face and OD cutting holderREFRIGERANTE  
COOLANT  
Esterno  
External**Code****W**

T.BMT.45C12020H

	20	
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**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**LYNX 220 M/LM LYNX 220 LMS**



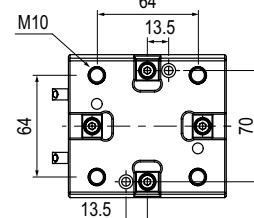
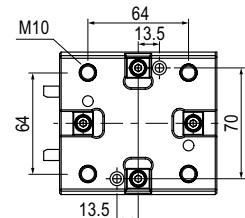
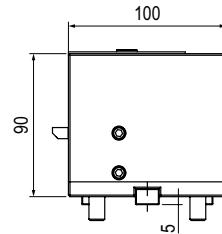
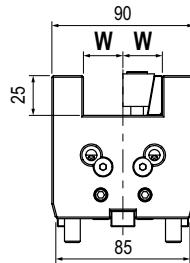
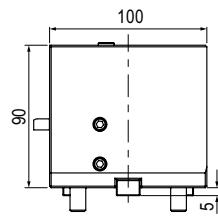
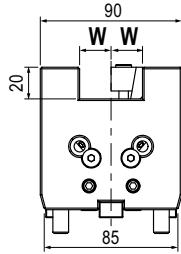
TIPO - TYPE

Portabareno doppio  
Double bar holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	$\varnothing$	H	H1	
T.BMT.45BBD20H	20	55	110	

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**PUMA 230-240M/MS-280LM**  
**PUMA 1500-2000-2500M/MS/Y/SY**
**PUMA 2100 SERIE - PUMA TT1500-TT1800MS/SY**  
**PUMA TL2000-2500 (M) - MX1600/2100TS**
**BMT  
55**


TIPO - TYPE

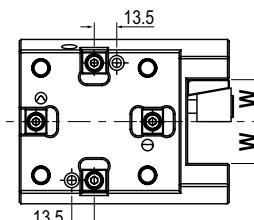
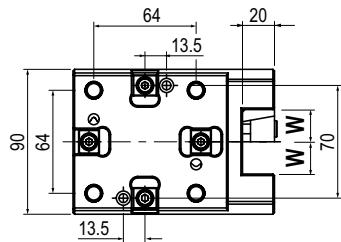
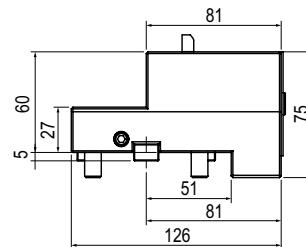
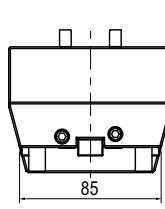
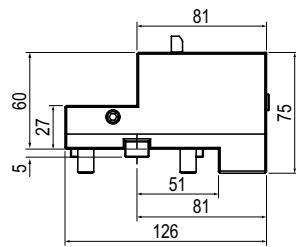
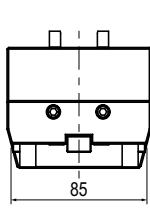
**Stelo quadro assiale**  
**Face and ID cutting holder**
REFRIGERANTE  
COOLANT
**Esterno**  
**External**

Code	W	
T.BMT.55B12020H	20	

TIPO - TYPE

**Stelo quadro assiale**  
**Face and ID cutting holder**
REFRIGERANTE  
COOLANT
**Esterno**  
**External**

Code	W	
T.BMT.55B12525H	25	



TIPO - TYPE

**Stelo quadro radiale**  
**Face and OD cutting holder**
REFRIGERANTE  
COOLANT
**Esterno**  
**External**

Code	W	
T.BMT.55C12020H	20	

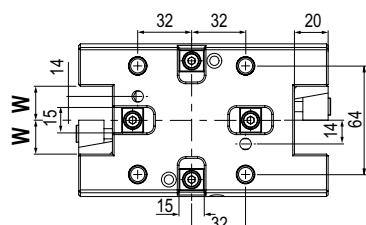
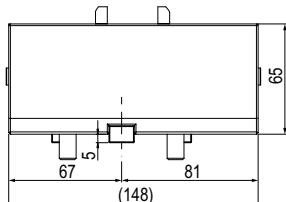
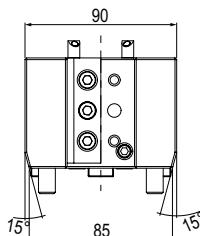


TIPO - TYPE

**Stelo quadro radiale**  
**Face and OD cutting holder**
REFRIGERANTE  
COOLANT
**Esterno**  
**External**

Code	W	
T.BMT.55C12525H	25	

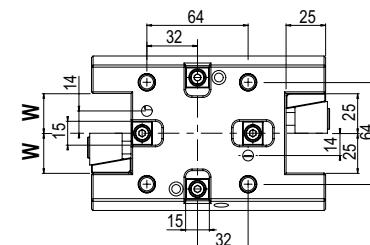
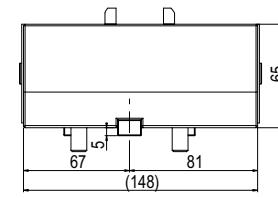
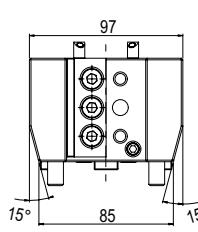
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**PUMA 230-240M/MS-280LM**  
**PUMA 1500-2000-2500M/MS/Y/SY**
**PUMA 2100 SERIE - PUMA TT1500-TT1800MS/SY**  
**PUMA TL2000-2500 (M) - MX1600/2100TS**


TIPO - TYPE

Stelo quadro radiale doppio  
Double face and OD holderREFRIGERANTE  
COOLANTEsterno  
External

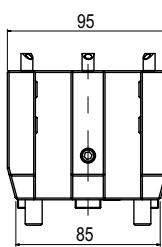
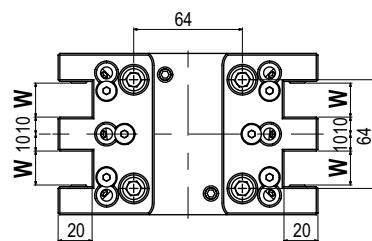
Code	W	
T.BMT.55C1D2020H	20	



TIPO - TYPE

Stelo quadro radiale doppio  
Double face and OD holderREFRIGERANTE  
COOLANTEsterno  
External

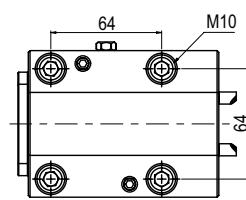
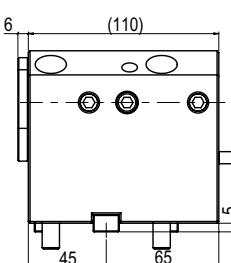
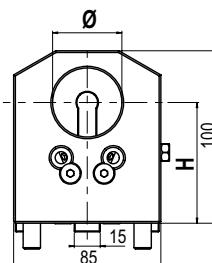
Code	W	
T.BMT.55C1D2525H	25	



TIPO - TYPE

Stelo quadro rad. quadruplo  
4 face and OD holderREFRIGERANTE  
COOLANTEsterno  
External

Code	W	
T.BMT.55C2D2020H	20	



TIPO - TYPE

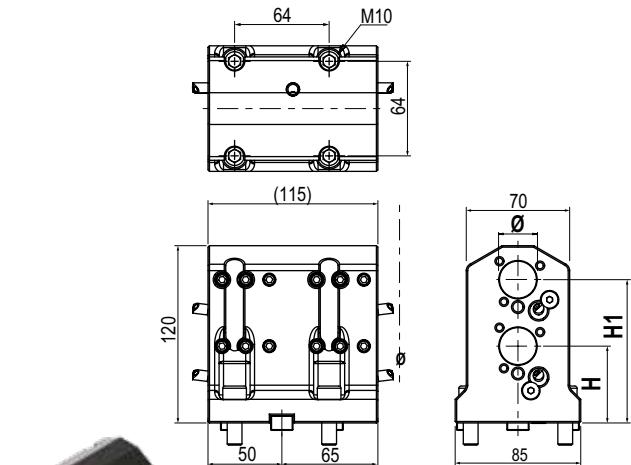
Portabareno  
Boring bar cutting holderREFRIGERANTE  
COOLANTEsterno & Interno  
External & Internal

Code	Ø	H	
T.BMT.55BB4070H	40	70	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

PUMA 230-240M/MS-280LM  
PUMA 1500-2000-2500M/MS/Y/SY

PUMA 2100 SERIE - PUMA TT1500-TT1800MS/SY  
PUMA TL2000-2500 (M) - MX1600/2100TS

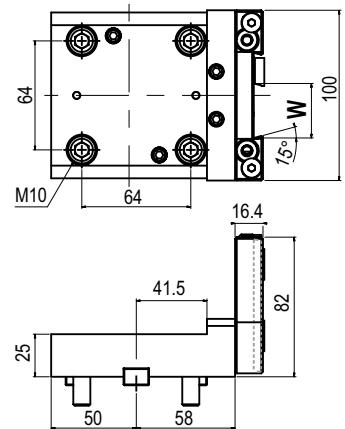


TIPO - TYPE  
Portabareno doppio  
Double boaring bar holder

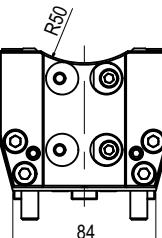


REFRIGERANTE  
COOLANT  
Esterno  
External

Code	<b>Ø</b>	<b>H</b>	<b>H1</b>	
T.BMT.55BBD25H	25	52	97	

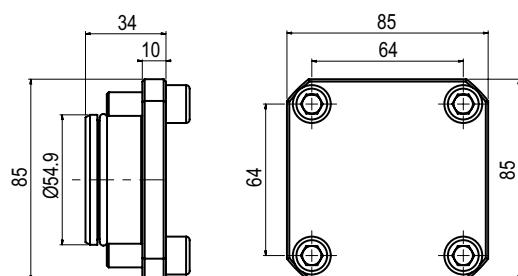


TIPO - TYPE  
Porta Lama  
Cut off holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	<b>W</b>	
T.BMT.55H13200H	32	

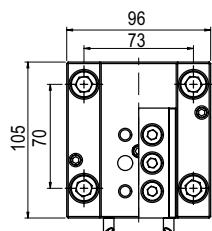
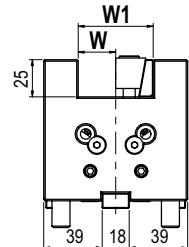
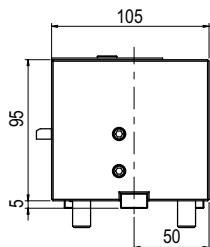


TIPO - TYPE  
Tappo in acciaio  
Steel Turret Cup

**Code**

T.BMT.55Z10000H

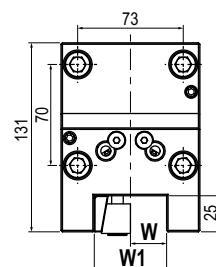
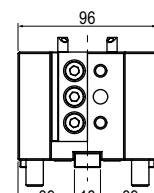
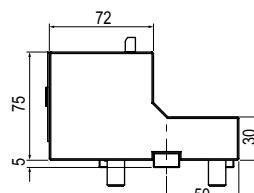
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**PUMA 300M/MS - V400M - TT2000SY-TT2500SY-TT2500MS - PUMA 2600/3100 SERIE - MX2000ST  
MX2500LT/ST/LST - MX2600-ST - VT 450M-TM - PUMA INVERTURN 3000M**


TIPO - TYPE

Stelo quadro assiale  
Face and ID cutting holderREFRIGERANTE  
COOLANT  
Esterno  
External

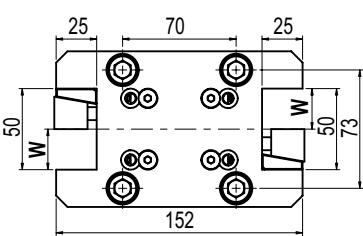
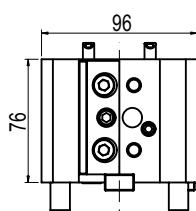
Code	W	W1	
T.BMT.65B12020H	20	40	
T.BMT.65B12525H	25	50	



TIPO - TYPE

Stelo quadro radiale  
Face and OD cutting holderREFRIGERANTE  
COOLANT  
Esterno  
External

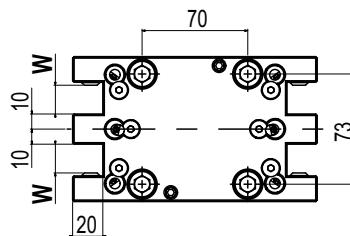
Code	W	W1	
T.BMT.65C12020H	20	40	
T.BMT.65C12525H	25	50	



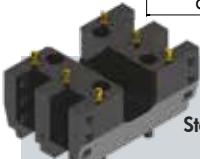
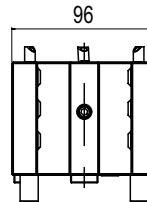
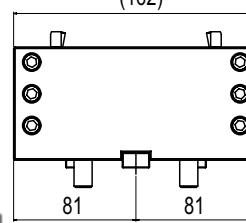
TIPO - TYPE

Stelo quadro radiale doppio  
Double face and OD holderREFRIGERANTE  
COOLANT  
Esterno  
External

Code	W	
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T.BMT.65C1D2525H	25	



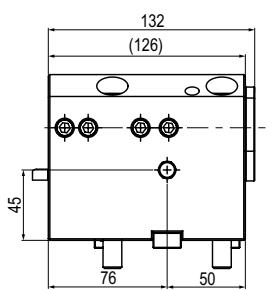
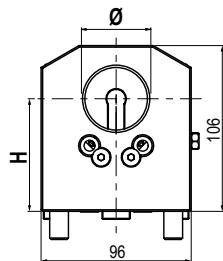
(162)



TIPO - TYPE

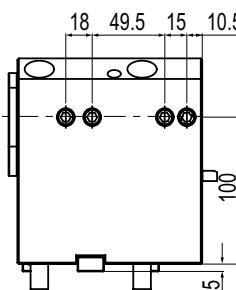
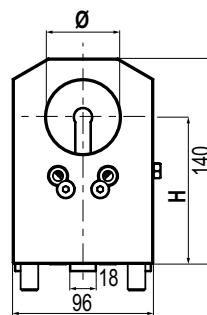
Stelo quadro rad. quadruplo  
4 face and OD holderREFRIGERANTE  
COOLANT  
Esterno  
External

Code	W	
T.BMT.65C2D2020H	20	

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**PUMA 300M/MS - V400M - TT2000SY-TT2500SY-TT2500MS - PUMA 2600/3100 SERIE - MX2000ST**  
**MX2500LT/ST/LST - MX2600-ST - VT 450M-TM - PUMA INVERTURN 3000M**

**TIPO - TYPE**  
**Portabareno**  
**Boring bar cutting holder**

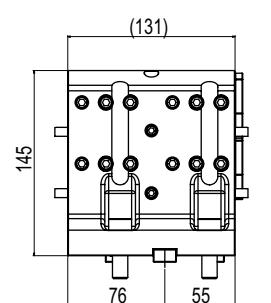
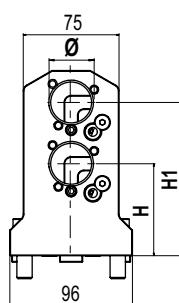
**REFRIGERANTE COOLANT**  
**Esterno & Interno**  
**External & Internal**

Code	Ø	H	
T.BMT.65BB4072H	40	72	


**TIPO - TYPE**  
**Portabareno**  
**Boring bar cutting holder**

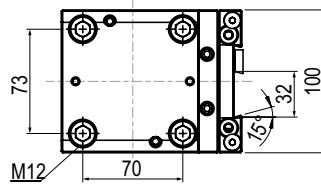
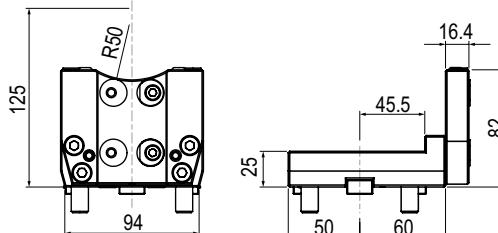
**REFRIGERANTE COOLANT**  
**Esterno & Interno**  
**External & Internal**

Code	Ø	H	
T.BMT.65BB50100H	50	100	


**TIPO - TYPE**  
**Portabareno doppio**  
**Double boring bar holder**

**REFRIGERANTE COOLANT**  
**Esterno & Interno**  
**External & Internal**

Code	Ø	H	H1	
T.BMT.65BBD32H	32	72	120	

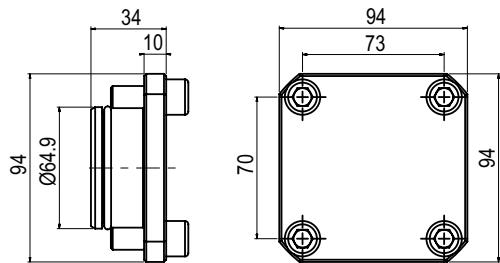

**TIPO - TYPE**  
**Porta lama**  
**Cut off holder**

**REFRIGERANTE COOLANT**  
**Esterno**  
**External**

Code	
T.BMT.65H13200H	

MODELLI DI TORNIO COMPATIBILI  
COMPATIBLE LATHE TYPES

PUMA 300M/MS - V400M - TT2000SY-TT2500SY-TT2500MS - PUMA 2600/3100 SERIE - MX2000ST  
MX2500LT/ST/LST - MX2600-ST - VT 450M-TM - PUMA INVERTURN 3000M

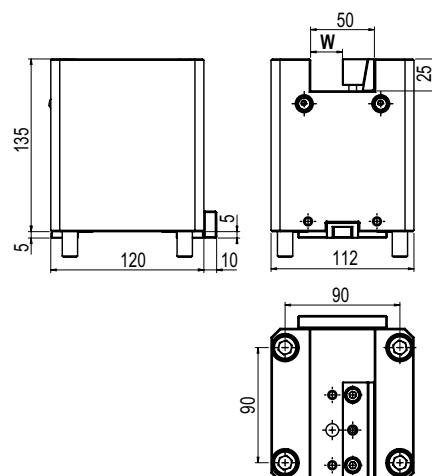


TIPO - TYPE  
Tappo in acciaio  
Steel Turret Cup

Code

T.BMT.65Z10000H

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**PUMA 400**  
**PUMA 480M/LM/XLM - V550MVT 750M/TM**


TIPO - TYPE

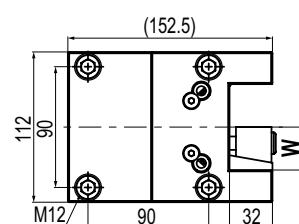
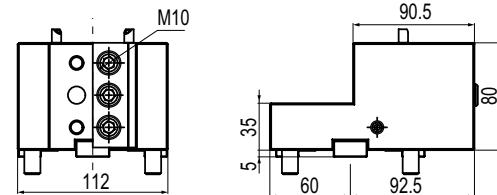
**Stelo quadro assiale**  
Face and ID cutting holder


REFRIGERANTE

COOLANT

**Esterno**  
External

Code	W	
T.BMT.75B12525H	25	
T.BMT.75B13232H	32	



TIPO - TYPE

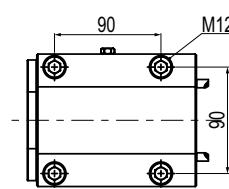
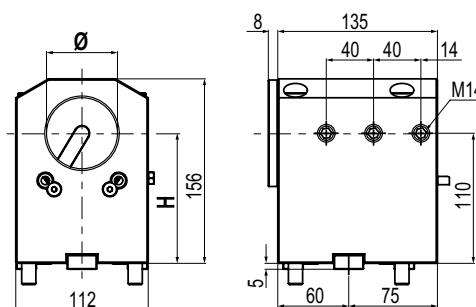
**Stelo quadro radiale**  
Face and OD cutting holder


REFRIGERANTE

COOLANT

**Esterno**  
External

Code	W	
T.BMT.75C13232H	32	



TIPO - TYPE

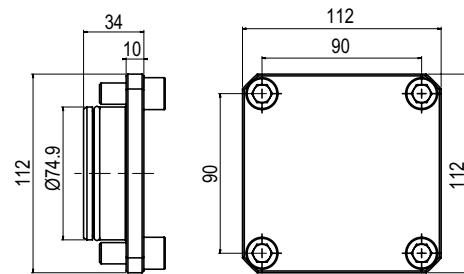
**Portabareno**  
Boring bar cutting holder


REFRIGERANTE

COOLANT

**Esterno & Interno**  
External & Internal

Code	Ø	H	
T.BMT.75BB60110H	60	110	



Code	
T.BMT.75Z10000H	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

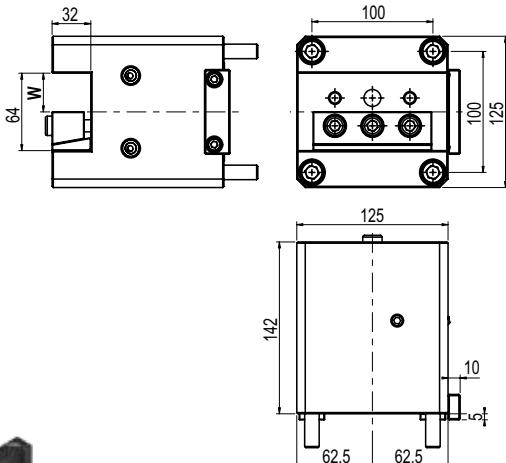
**VT900M/TM\ M+18141VT1100M\ M+18141**  
**PUMA 600M/LM\ M+18141PUMA 700M/LM\ M+18141 / PUMA 800M / LM**


TIPO - TYPE

**Stelo quadro assiale**  
Face and ID cutting holder
REFRIGERANTE  
COOLANT
**Esterno**  
External
**Code****W**

T.BMT.85B13232H

32

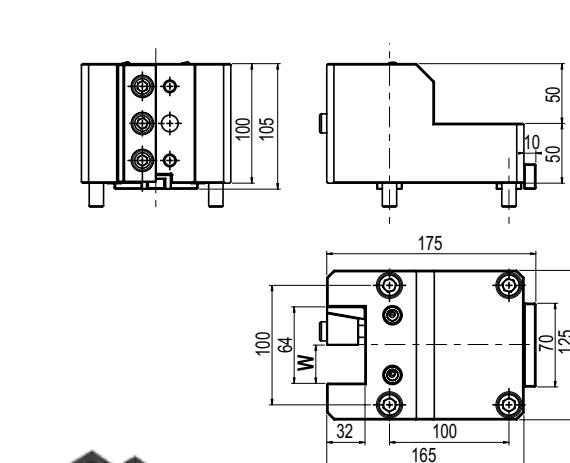


TIPO - TYPE

**Stelo quadro radiale**  
Face and OD cutting holder
REFRIGERANTE  
COOLANT
**Esterno**  
External
**Code****W**

T.BMT.85C13232H

32



TIPO - TYPE

**Portabareno**  
Boring bar cutting holder
REFRIGERANTE  
COOLANT
**Esterno**  
External
**Code****Ø****H**

T.BMT.85BB6085H

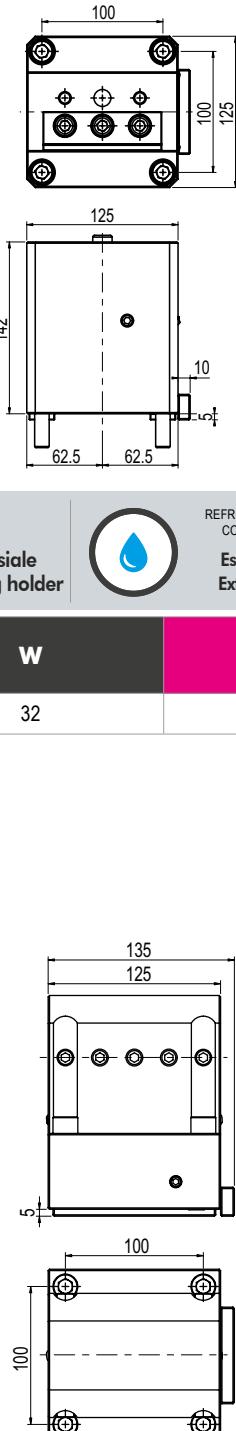
60

85

T.BMT.85BB60110H

60

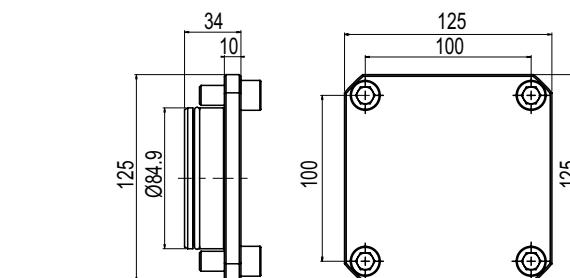
110



TIPO - TYPE

**Tappo in acciaio**  
Steel Turret Cup
**Code**

T.BMT.85Z1000H





## HAAS VDI40 / BMT65 PORTAUTENSILI STATICI - STATIC TOOLS



6

MODELLI DI TORRETTE COMPATIBILI  
TURRET MODELS COMPATIBLES



BMT65 DS30Y / ST20Y / ST25Y / ST30Y / ST35Y

**HAAS**  
DIN 69880

**TIPO - TYPE VDI E1**  
Radiale  
Radial holder

REFRIGERANTE  
COOLANT  
Esterno  
External

Code	Orientation
T.B2.40x25x44	Sinistro - Left

Code	Orientation
T.B4-40x25x44	Sinistro - Left

Code	Orientation
T.C4-40x25x85	Sinistro - Left


**TIPO - TYPE VDI E1**  
Per Punte ad Inserti  
For indexable insert drill

REFRIGERANTE  
COOLANT  
Esterno & Interno  
External & Internal

Code
T.E1-30x.. Ø16-20-25-32-40
T.E1-40x.. Ø16-20-25-32-40-50
T.E1-50x.. Ø16-20-25-32-40-50
T.E1-60x.. Ø16-20-25-32-40-50


**TIPO - TYPE VDI E2**  
Portabareni  
Boaring bar holder

REFRIGERANTE  
COOLANT  
Esterno & Interno  
External & Internal

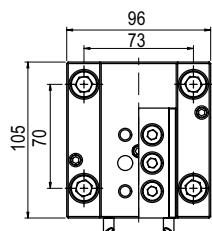
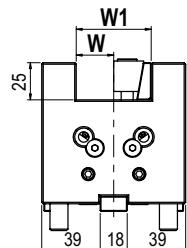
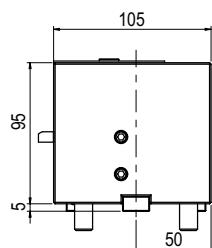
Code
T.E2-40x... Ø 06,08,10,12,16,20,25,32,40,50


**TIPO - TYPE VDI E4**  
Portapinze ER  
Collet chuck for ER collets

REFRIGERANTE  
COOLANT  
Esterno & Interno  
External & Internal

Code
T.E4-4025
T.E4-4032
T.E4-4040

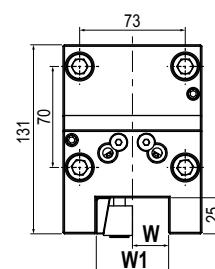
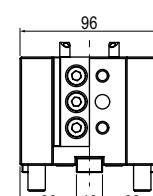
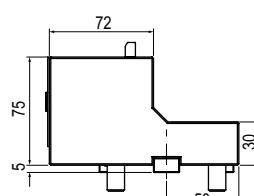
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**DS30Y / ST20Y / ST25Y / ST30Y / ST35Y**
**BMT  
65**


TIPO - TYPE

Stelo quadro assiale  
Face and ID cutting holderREFRIGERANTE  
COOLANT  
Esterno  
External

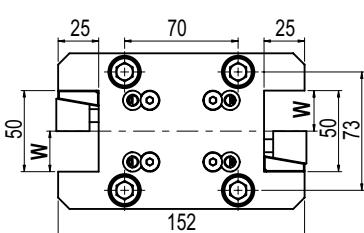
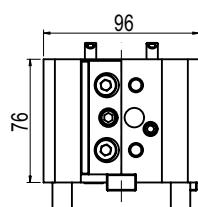
Code	W	W1	
T.BMT.65B12020H	20	40	
T.BMT.65B12525H	25	50	



TIPO - TYPE

Stelo quadro radiale  
Face and OD cutting holderREFRIGERANTE  
COOLANT  
Esterno  
External

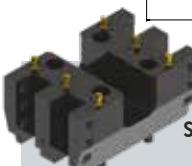
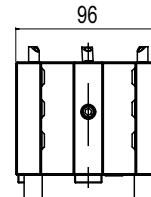
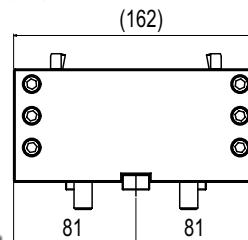
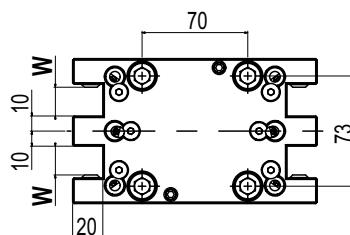
Code	W	W1	
T.BMT.65C122020H	20	40	
T.BMT.65C12525H	25	50	



TIPO - TYPE

Stelo quadro radiale doppio  
Double face and OD holderREFRIGERANTE  
COOLANT  
Esterno  
External

Code	W	
T.BMT.65C1D2020H	20	
T.BMT.65C1D2525H	25	

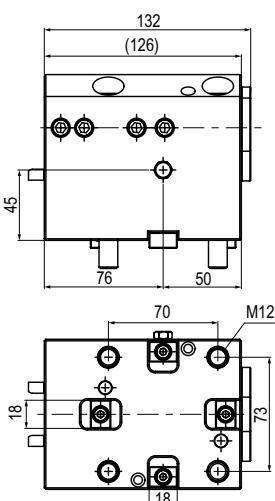
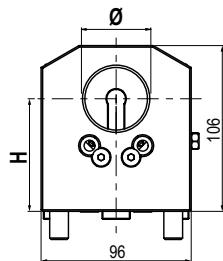


TIPO - TYPE

Stelo quadro rad. quadruplo  
4 face and OD holderREFRIGERANTE  
COOLANT  
Esterno  
External

Code	W	
T.BMT.65C2D2020H	20	

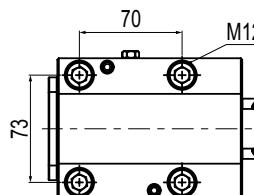
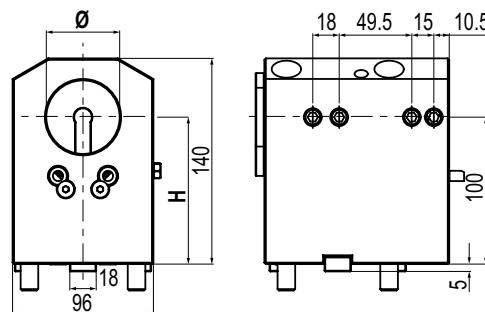
**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**DS30Y / ST20Y / ST25Y / ST30Y / ST35Y**


TIPO - TYPE  
Portabareno  
Boring bar cutting holder



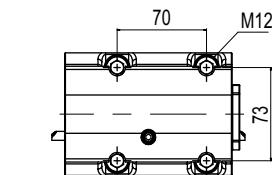
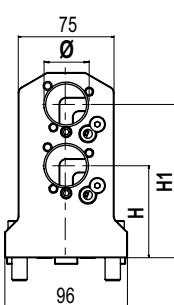
Code	Ø	H	
T.BMT.65BB4072H	40	72	



TIPO - TYPE  
Portabareno  
Boring bar cutting holder



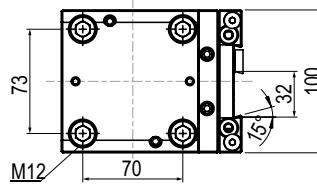
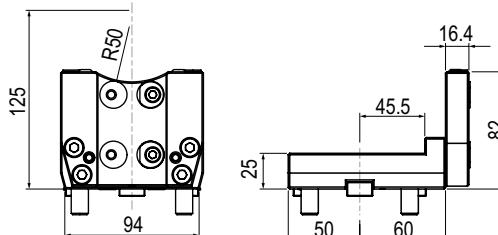
Code	Ø	H	
T.BMT.65BB50100H	50	100	



TIPO - TYPE  
Portabareno doppio  
Double boring bar holder



Code	Ø	H	H1	
T.BMT.65BBD32H	32	72	120	



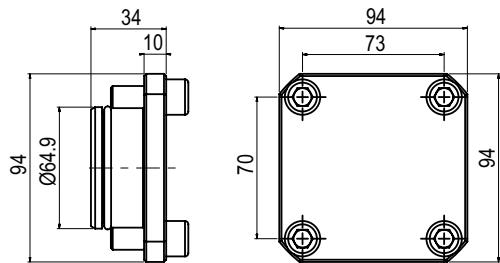
TIPO - TYPE  
Porta Lama  
Cut off holder



Code	
T.BMT.65H13200H	

MODELLI DI TORNIO COMPATIBILI  
COMPATIBLE LATHE TYPES

DS30Y / ST20Y / ST25Y / ST30Y / ST35Y



TIPO - TYPE  
Tappo in acciaio  
Steel Turret Cup

Code

T.BMT.65Z10000H



# MAZAK QTN 1 / 2 / 3

## PORTAUTENSILI STATICI - STATIC TOOLS



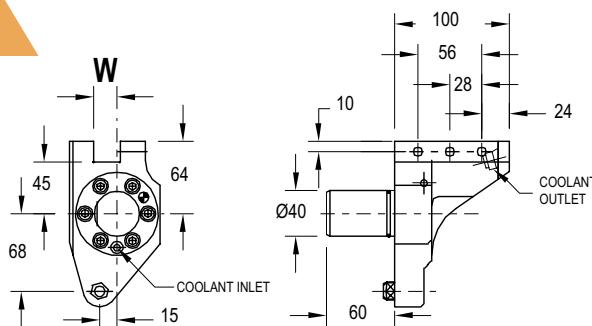
6



### MODELLI DI TORRETTE COMPATIBILI

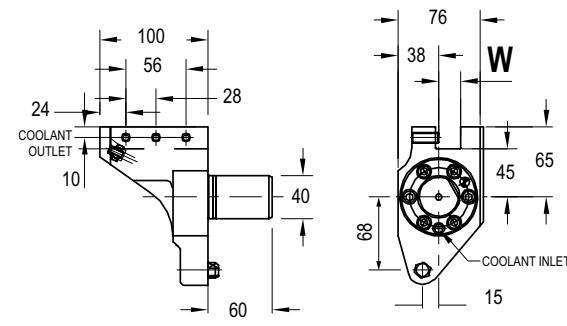
TURRET MODELS COMPATIBLES

- QTN1** QT NEXUS 100 - M / MS / MY / MSY
- QTN2** QT NEXUS 200 / 250M / MS / MY / MSY
- QTN3** QT NEXUS 300-II / 400-II & 450-II M&MY

**MODELLI DI TORNIO COMPATIBILI**  
**COMPATIBLE LATHE TYPES**
**QT NEXUS 100 - M / MS / MY / MSY**
**QTN  
1**

**TIPO - TYPE**  
**Arretrato Quadro**  
**Turning Tool Holder**

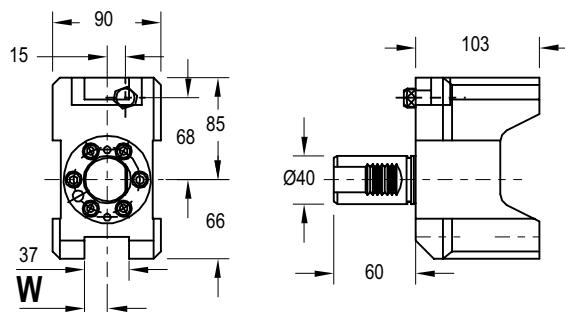
**REFRIGERANTE  
COOLANT**  
**Esterno  
External**

Code	W	Orientation
T.53518000101	20	Destro - Right


**TIPO - TYPE**  
**Arretrato Quadro**  
**Turning Tool Holder**

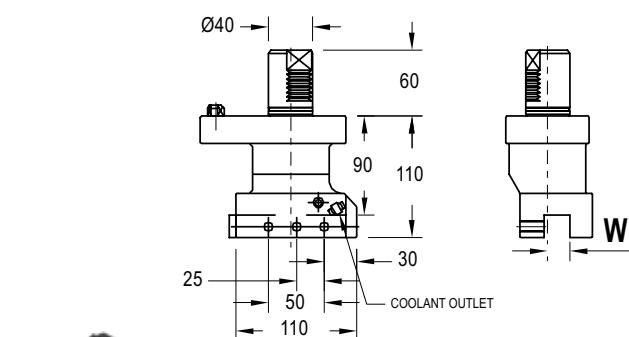
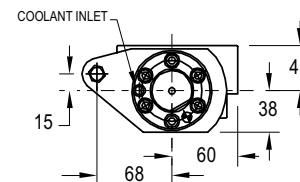
**REFRIGERANTE  
COOLANT**  
**Esterno  
External**

Code	W	Orientation
T.53518000701	20	Sinistro - Left

**6**

**TIPO - TYPE**  
**Doppio quadro**  
**Double turning tool holder**

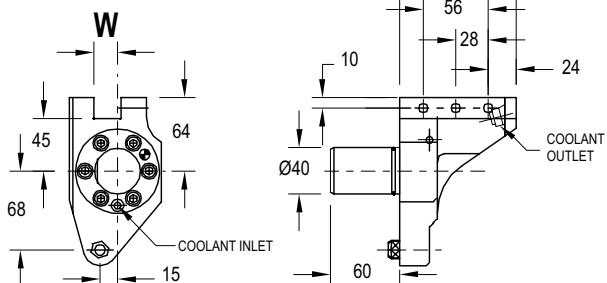
**REFRIGERANTE  
COOLANT**  
**Esterno  
External**

Code	W
T.53538000101	20


**TIPO - TYPE**  
**Portautensile per sfacciare**  
**Facing tool holder**

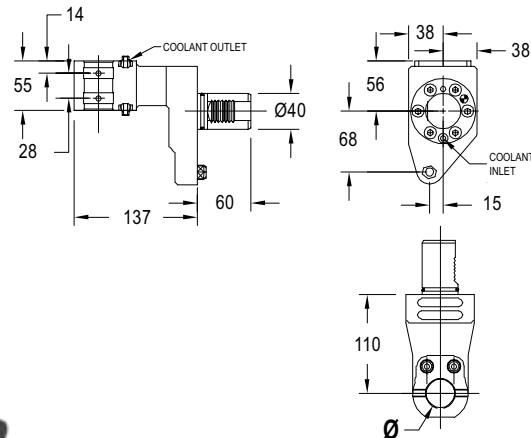
**REFRIGERANTE  
COOLANT**  
**Esterno  
External**

Code	W
T.53518000301	20

**QT NEXUS 100 - M / MS / MY / MSY**

**TIPO - TYPE**  
 Portalamma  
 Cut-off holder

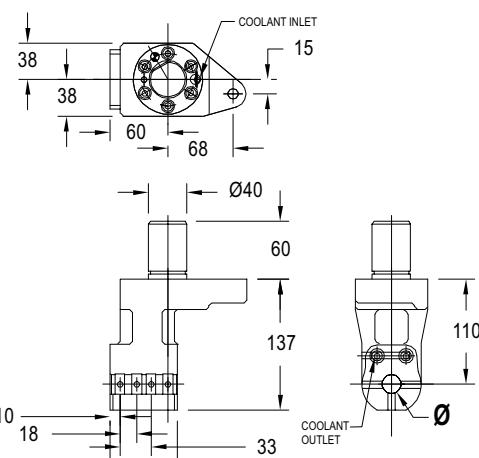
**REFRIGERANTE COOLANT**  
 Esterno  
 External

Code	W	
T.53518000401	20	


**TIPO - TYPE**  
 Portabareno  
 Boring bar holder

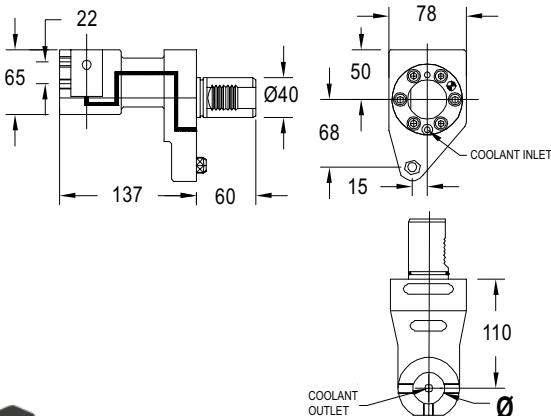
**REFRIGERANTE COOLANT**  
 Esterno  
 External

Code	Ø	
T.53518000201	Ø32mm	


**TIPO - TYPE**  
 Portabareno doppio  
 Double boring bar holder

**REFRIGERANTE COOLANT**  
 Esterno  
 External

Code	Ø	
T.53538000201	Ø20mm	


**TIPO - TYPE**  
 Portapunte  
 U'Drill holder

**REFRIGERANTE COOLANT**  
 Esterno & Interno  
 External & Internal

Code	Ø	
T.53518000501	Ø32mm	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT NEXUS 100 - M / MS / MY / MSY (BOLT ON)**


TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Arretrato quadro Turning Holder FWD			
Code	W		
T.53108000101	25		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Arretrato quadro Turning Holder REV			
Code	W		
T.53108000201	20		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Portautensile a sfacciare Facing holder			
Code	W		
T.53108000300	20		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Portabareno Boring bar holder			
Code	W		
T.53108000400	32		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno & Interno External & Internal
Portapunte U' Drill Holder			
Code	W		
T.53108000500	32		

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT NEXUS 150-II M / MS / MY / MSY (BOLT ON)**


TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Portabareno Boring bar holder			
Code	W		
T.53378000304	40		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Portautensile a sfacciare Facing Holder			
Code	W		
T.53208000301	25x25 mm		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno & Interno External & Internal
Portapunte U' Drill Holder			
Code	W		
T.53208000100	40		

**MODELLI DI TORNIO COMPATIBILI  
COMPATIBLE LATHE TYPES**
**BUSSOLE DI RIDUZIONE - BORING BAR SOCKETS  
FOR QT NEXUS 100 - II/M/MS/MY/MSY**


<b>Code</b>	<b>Descrizione - Description</b>	<b>OEM Ref #</b>	
T.53178012100	Bussola di riduzione Ø 32 x 25	Boring bar socket Ø 32 x 25 mm	
T.53178012200	Bussola di riduzione Ø 32 x 20	Boring bar socket Ø 32 x 20 mm	
T.53178012301	Bussola di riduzione Ø 32 x 16	Boring Bar Socket Ø 32 x 16 mm	53178012300
T.53178012401	Bussola di riduzione Ø 32 x 12 mm	Boring Bar Socket Ø 32 x 12 mm	53178012400
T.53178012501	Bussola di riduzione Ø 32 x 10 mm	Boring Bar Socket Ø 32 x 10 mm	53178012500
T.53178012601	Bussola di riduzione Ø 32 x 8 mm	Boring Bar Socket Ø 32 x 8 mm	53178012600
T.53518003100	Bussola per punta MK2	Morse Taper Drill Socket x MT2	
T.53258001800	Bussola di riduzione per punte Ø 32 x 25 mm	U' Drill Socket Ø 32 x 25 mm	53518003200
T.53258001700	Bussola di riduzione per punte Ø 32 x 20 mm	U' Drill Socket Ø 32 x 20 mm	53518003300

**MODELLI DI TORNIO COMPATIBILI  
COMPATIBLE LATHE TYPES**
**QT NEXUS 100-II**

T.53178012100	Bussola di riduzione Ø 32 x 25 mm	Boring bar socket Ø 32 x 25 mm	
T.53178012200	Bussola di riduzione Ø 32 x 20 mm	Boring bar socket Ø 32 x 20 mm	
T.53178012301	Bussola di riduzione Ø 32 x 16 mm	Boring bar socket Ø 32 x 16 mm	53178012300
T.53178012401	Bussola di riduzione Ø 32 x 12 mm	Boring bar socket Ø 32 x 12 mm	53178012400
T.53178012501	Bussola di riduzione Ø 32 x 10 mm	Boring bar socket Ø 32 x 10 mm	
T.53178012601	Bussola di riduzione Ø 32 x 8 mm	Boring bar socket Ø 32 x 8 mm	53178012600
T.53418003200	Bussola per punta MK2	Morse taper drill socket x MT2	
T.53418003100	Bussola per punta MK3	Morse taper drill socket x MT3	
T.53518003200	Bussola di riduzione per punte Ø 32 x 25 mm	U' Drill socket Ø 32 x 25 mm	
T.53518003300	Bussola di riduzione per punte Ø 32 x 20 mm	U' Drill socket Ø 32 x 20 mm	

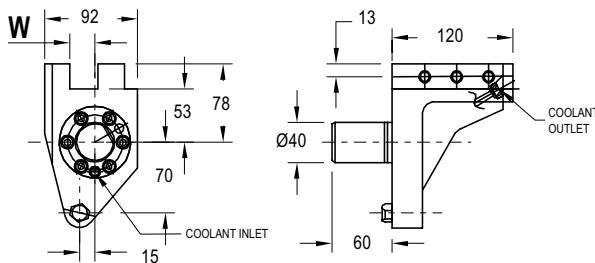
**MODELLI DI TORNIO COMPATIBILI  
COMPATIBLE LATHE TYPES**
**QT NEXUS 150-II**

T.53178010100	Bussola di riduzione Ø 40 x 32 mm	Boring bar socket Ø 40 x 32 mm	
T.53178010200	Bussola di riduzione Ø 40 x 25 mm	Boring bar socket Ø 40 x 25 mm	
T.53178010301	Bussola di riduzione Ø 40 x 20 mm	Boring bar socket Ø 40 x 20 mm	53178010300
T.53178010401	Bussola di riduzione Ø 40 x 16 mm	Boring bar socket Ø 40 x 16 mm	53178010400
T.53178010501	Bussola di riduzione Ø 40 x 12 mm	Boring bar socket Ø 40 x 12 mm	53178010500
T.53178010601	Bussola di riduzione Ø 40 x 10 mm	Boring bar socket Ø 40 x 10 mm	53178010600
T.53178010701	Bussola di riduzione Ø 40 x 8 mm	Boring bar socket Ø 40 x 8 mm	53178010700
T.53418003300	Riduzione per punte MK1	Morse taper drill socket x MT1	
T.53418003200	Riduzione per punte MK2	Morse taper drill socket x MT2	
T.53418003100	Riduzione per punte MK3	Morse taper drill socket x MT3	
T.53208001200	Riduzione per punta Ø 40 x 32 mm	U' drill socket Ø 40 x 32 mm	
T.53208001100	Riduzione per punta Ø 40 x 25 mm	U' drill socket Ø 40 x 25 mm	
T.53208001000	Riduzione per punta Ø 40 x 20 mm	U' drill socket Ø 40 x 20 mm	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT NEXUS 200 / 250M / MS / MY / MSY**

**QTN  
2**

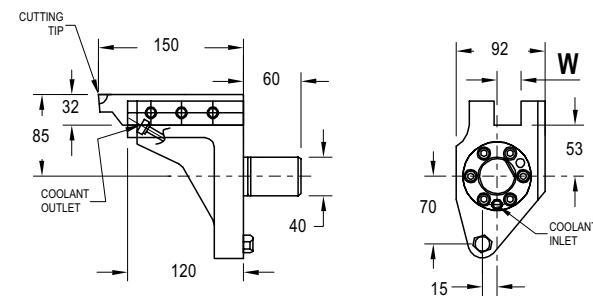


TIPO - TYPE  
Arretrato quadro  
Turning toolholder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	W	Orientation
T.53618000100	25	Destro-Right

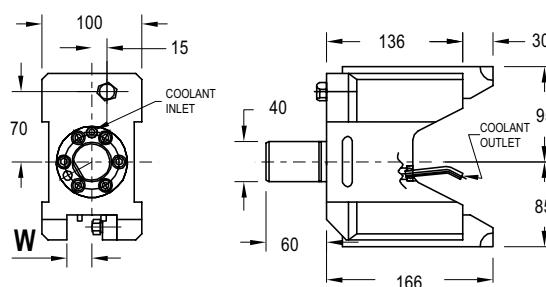


TIPO - TYPE  
Arretrato quadro  
Turning toolholder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	W	Orientation
T.53618000600	25	Sinistro-Left

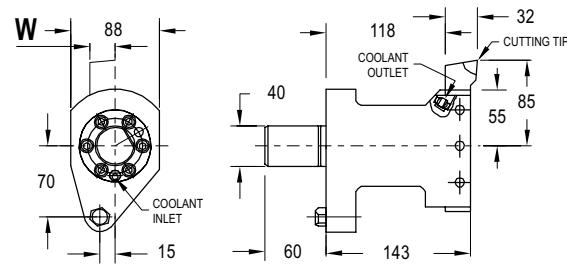


TIPO - TYPE  
Portautensile doppio quadro  
Double turning tool holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	W
T.53638000300	25



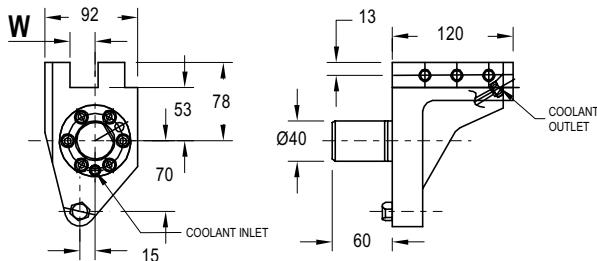
TIPO - TYPE  
Portautensile a sfacciare  
Facing tool holder



REFRIGERANTE  
COOLANT  
Esterno  
External

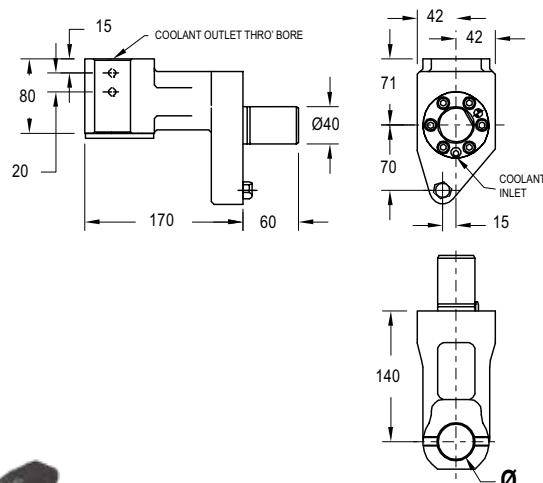
Code	W
T.53618000300	25

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT NEXUS 200 / 250M / MS / MY / MSY**

**TIPO - TYPE**  
**Portalamina**  
**Cut-off holder**

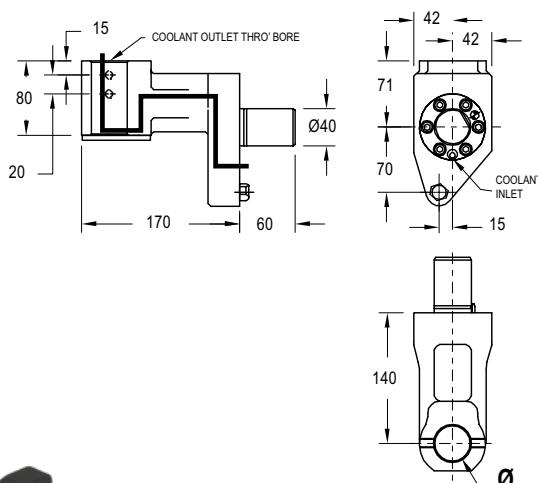
**REFRIGERANTE  
COOLANT**  
**Esterno**  
**External**

Code	W	
T.53618000400	25	


**TIPO - TYPE**  
**Portabreno**  
**Boring bar holder**

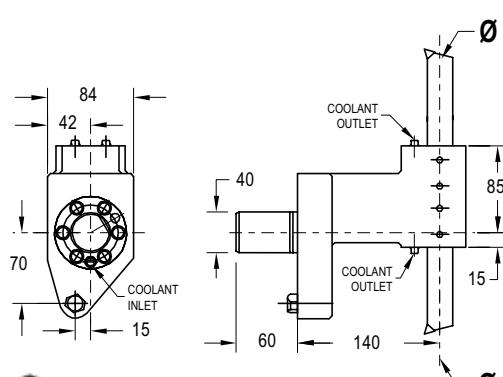
**REFRIGERANTE  
COOLANT**  
**Esterno**  
**External**

Code	$\emptyset$	
T.53208005100	40	


**TIPO - TYPE**  
**Portapunte**  
**U Drill holder**

**REFRIGERANTE  
COOLANT**  
**Esterno & Interno**  
**External & Internal**

Code	$\emptyset$	
T.53208005200	40	


**TIPO - TYPE**  
**Portabreno doppio**  
**Double boring bar**

**REFRIGERANTE  
COOLANT**  
**Esterno**  
**External**

Code	$\emptyset$	
T.53638000400	25	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT NEXUS 200-II / 250-II (BOLT ON)**


TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Arretrato quadro Turning Holder FWD			
Code	W		
T.53208000400	25		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Arretrato quadro Turning Holder REV			
Code	W		
T.53208000400	25		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Portabareno Boring bar holder			
Code	W		
T.53378000304	40		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno External
Portautensile a sfacciare Facing holder			
Code	W		
T.53208000300	25		

TIPO - TYPE			REFRIGERANTE COOLANT Esterno & Interno External & Internal
Portapunte U' Drill Holder			
Code	W		
T.53208000100	40		

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**BUSSOLE DI RIDUZIONE - BORING BAR SOCKETS**  
**FOR QT NEXUS 200 - II / 250-II**

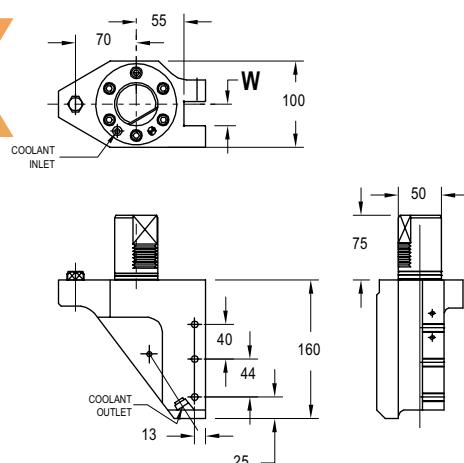


<b>Code</b>	<b>Descrizione - Description</b>	<b>OEM Ref #</b>		
T.53178010100	Bussola di riduzione Ø 40 x 32 mm	Boring Bar Socket Ø 40 x 32 mm		
T.53178010200	Bussola di riduzione Ø 40 x 25 mm	Boring Bar Socket Ø 40 x 25 mm		
T.53178010301	Bussola di riduzione Ø 40 x 20 mm	Boring Bar Socket Ø 40 x 20 mm		53178010300
T.53178010401	Bussola di riduzione Ø 40 x 16 mm	Boring Bar Socket Ø 40 x 16 mm		53178010400
T.53178010501	Bussola di riduzione Ø 40 x 12 mm	Boring Bar Socket Ø 40 x 12 mm	53178010500	
T.53178010601	Bussola di riduzione Ø 40 x 10 mm	Boring Bar Socket Ø 40 x 10 mm	53178010600	
T.53178010701	Bussola di riduzione Ø 40 x 8 mm	Boring Bar Socket Ø 40 x 8 mm	53178010700	
T.53418003300	Riduzione per punte MK1	Morse Taper Drill Socket x MT1		
T.53418003200	Riduzione per punte MK2	Morse Taper Drill Socket x MT2		
T.53418003100	Riduzione per punte MK3	Morse Taper Drill Socket x MT3		
T.53208001200	Riduzione per punta Ø 40 x 32 mm	U' Drill Socket Ø 40 x 32 mm		
T.53208001100	Riduzione per punta Ø 40 x 25 mm	U' Drill Socket Ø 40x 25 mm		
T.53208001000	Riduzione per punta Ø 40 x 20 mm	U' Drill Socket Ø 40x 20 mm		

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT NEXUS 300-II / 400-II & 450-II M&MY**

**QTN  
3**



TIPO - TYPE

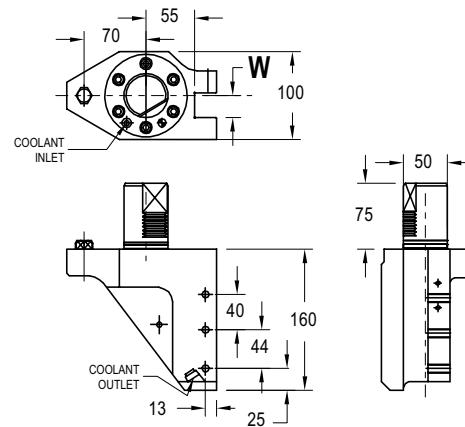
Rovesciato quadro  
Turning tool holder



REFRIGERANTE  
COOLANT

Esterno  
External

Code	W	Orientation
T.53688000100	25	Sinistro-Left



TIPO - TYPE

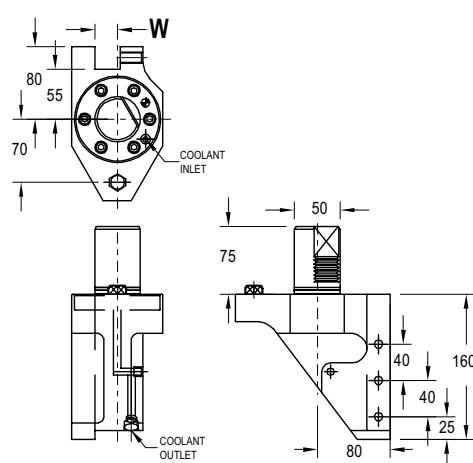
Portautensile quadro  
Turning tool holder



REFRIGERANTE  
COOLANT

Esterno  
External

Code	W	Orientation
T.53308000601	25	Sinistro-Left



TIPO - TYPE

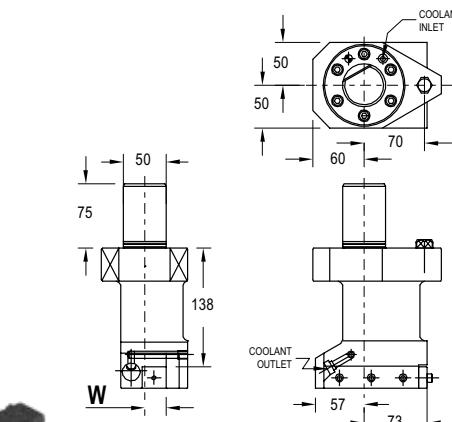
Portautensile quadro  
Turning tool holder



REFRIGERANTE  
COOLANT

Esterno  
External

Code	W	Orientation
T.53308000101	25	Destro - Right



TIPO - TYPE

Portautensile a sfacciare  
Facing tool holder



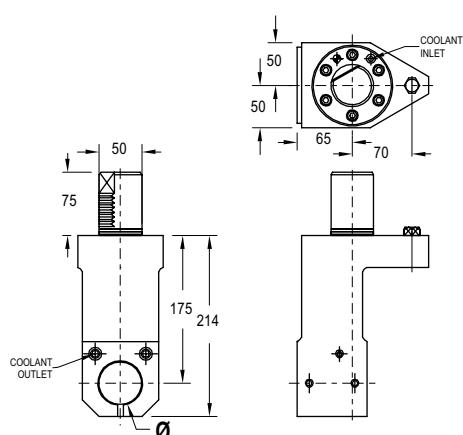
REFRIGERANTE  
COOLANT

Esterno  
External

Code	W	Orientation
T.53308000301	25	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT NEXUS 300-II / 400-II & 450-II M&MY**

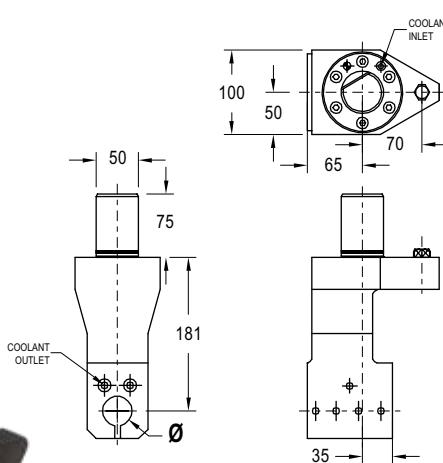


TIPO - TYPE  
**Portabareno**  
Boring bar holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	Ø	
T.53308000201	50	

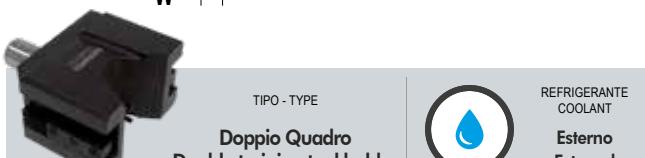
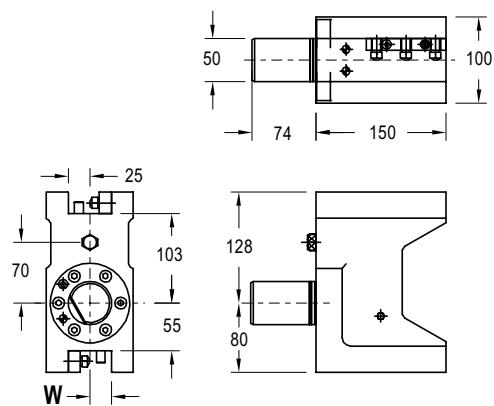


TIPO - TYPE  
**Portabareno doppio**  
Double boring bar holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	Ø	
T.53838000901	32	

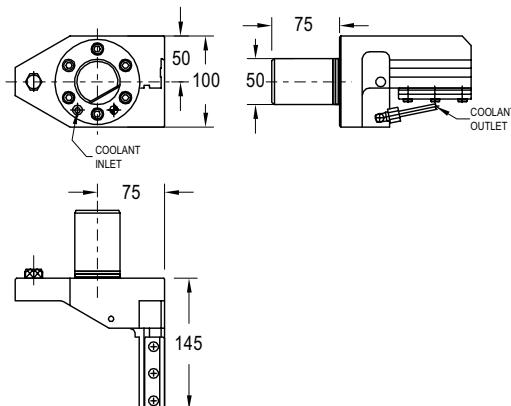


TIPO - TYPE  
**Doppio Quadro**  
Double turning tool holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	W	
T.53838000801	25	



TIPO - TYPE  
**Portalamina**  
Cut off holder

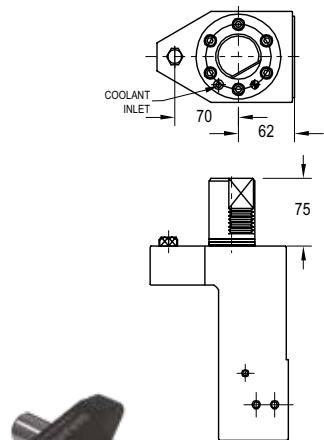


REFRIGERANTE  
COOLANT  
Esterno  
External

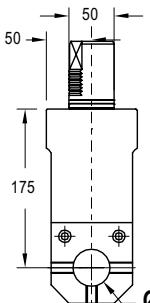
Code		
T.53308000401		

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**QT NEXUS 300-II / 400-II & 450-II M&MY**

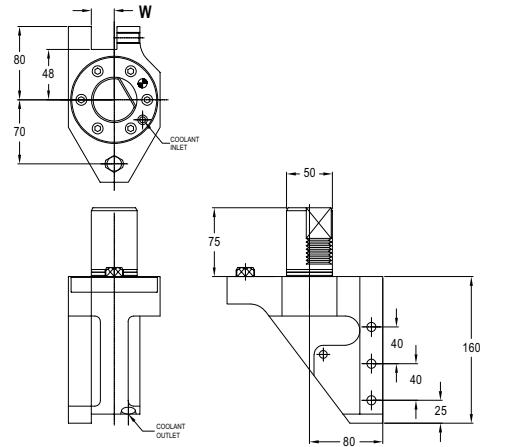


TIPO - TYPE  
**Portapunte  
U'Drill holder**



REFRIGERANTE  
COOLANT  
Esterno  
External

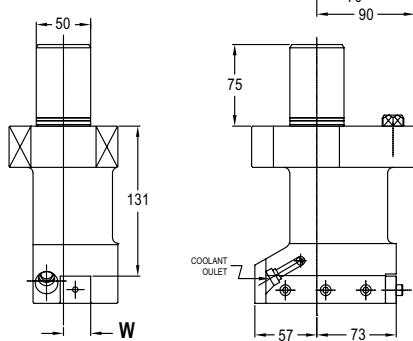
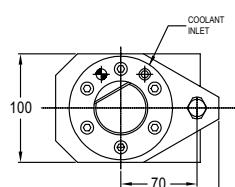
Code	Ø	
T.53308000501	Ø40mm	



TIPO - TYPE  
**Portautensile quadro  
Turning tool holder**

REFRIGERANTE  
COOLANT  
Esterno  
External

Code	Ø	Orientation	
T.53688000200	32x32mm	Destro - Right	



TIPO - TYPE  
**Portautensile a sfacciare  
Facing tool holder**

REFRIGERANTE  
COOLANT  
Esterno  
External

Code	Ø	
T.53688000300	32	

**MODELLI DI TORNIO COMPATIBILI**  
COMPATIBLE LATHE TYPES

**BUSSOLE DI RIDUZIONE - BORING BAR SOCKETS**  
**FOR QT NEXUS 300 - II / 350-II**



Code	Descrizione - Description	OEM Ref #		
T.53178010100	Bussola di riduzione Ø 40 x 32 mm	Boring Bar Socket Ø 40 x 32 mm		
T.53178010200	Bussola di riduzione Ø 40 x 25 mm	Boring Bar Socket Ø 40 x 25 mm		
T.53178010301	Bussola di riduzione Ø 40 x 20 mm	Boring Bar Socket Ø 40 x 20 mm	53178010300	
T.53178010401	Bussola di riduzione Ø 40 x 16 mm	Boring Bar Socket Ø 40 x 16 mm	53178010400	
T.53178010501	Bussola di riduzione Ø 40 x 12 mm	Boring Bar Socket Ø 40 x 12 mm	53178010500	
T.53178010601	Bussola di riduzione Ø 40 x 10 mm	Boring Bar Socket Ø 40 x 10 mm	53178010600	
T.53178010701	Bussola di riduzione Ø 40 x 8 mm	Boring Bar Socket Ø 40 x 8 mm	53178010700	
T.53418003300	Riduzione per punta MK1	Morse taper Drill Socket x MT1		
T.53418003200	Riduzione per punta MK2	Morse taper Drill Socket x MT2		
T.53418003100	Riduzione per punta MK3	Morse taper Drill Socket x MT3		
T.53208001200	Bussola di riduzione Ø 40 x 32 mm	U' Drill Socket Ø 40 x 32 mm		
T.53208001100	Bussola di riduzione Ø 40 x 25 mm	U' Drill Socket Ø 40 x 25 mm		
T.53208001000	Bussola di riduzione Ø 40 x 20 mm	U' Drill Socket Ø 40 x 20 mm		





NUOVA GAMMA  
NEW RANGE

**TSUGAMI**  
**PORTAUTENSILI STATICI - STATIC TOOLS**



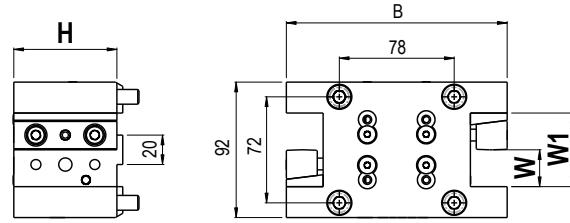
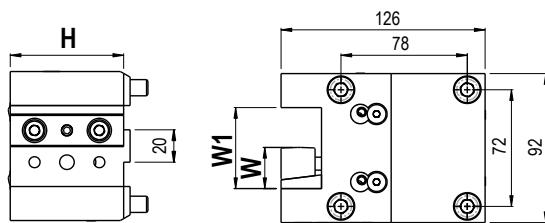
**MODELLI DI TORRETTE COMPATIBILI**  
TURRET MODELS COMPATIBLES

**BMT65** M06D / M06SD / M06SY / M08D / M08SD / M08SY

**MODELLI DI TORNIO COMPATIBILI**  
LATHE MODEL COMPATIBLES

M06D / M06SD / M06SY / M08D / M08SD / M08SY

**BMT  
65**



TIPO - TYPE

Stelo Quadro Singolo  
O.D Cutting Holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	H	W	W1	
T.TS.A01	70	25	50	
T.TS.A02	70	1"	2"	



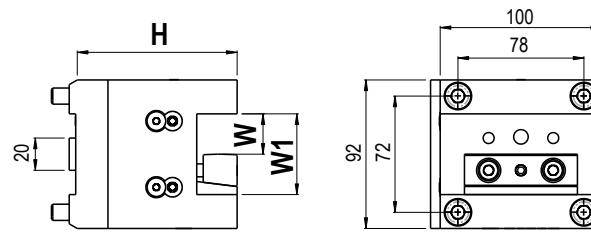
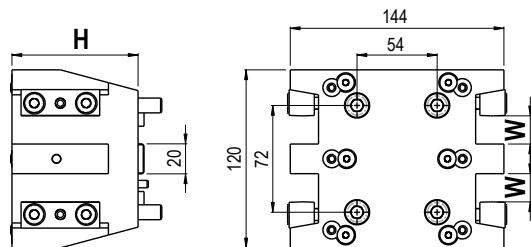
TIPO - TYPE

Stelo Quadro Doppio  
O.D Double Holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	B	H	W	W1	
T.TS.A03	150	70	25	50	
T.TS.A04	126	70	1"	2"	



TIPO - TYPE

Stelo Quadro Quadruplo  
Y Axis Double Toolholder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	H	W	
T.TS.A05	85	20	
T.TS.A06	85	0,75"	



TIPO - TYPE

Stelo Quadro Assiale  
Face and I.D. Cutting Holder

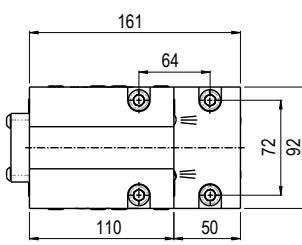
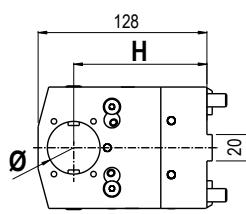
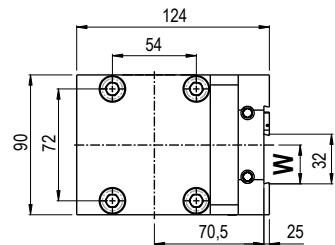
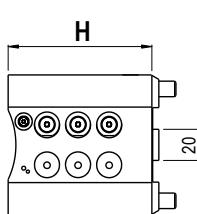


REFRIGERANTE  
COOLANT  
Esterno  
External

Code	H	W	W1	
T.TS.A07	100	25	50	
T.TS.A08	100	1"	2"	

**MODELLI DI TORNIO COMPATIBILI**  
LATHE MODEL COMPATIBLES

**M06D / M06SD / M06SY / M08D / M08SD / M08SY**



TIPO - TYPE  
Porta Lama  
Cut off holder



REFRIGERANTE  
COOLANT  
Esterno  
External

Code	H	W	
T.TS.A09	93	25	

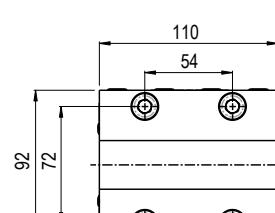
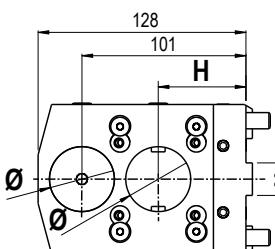
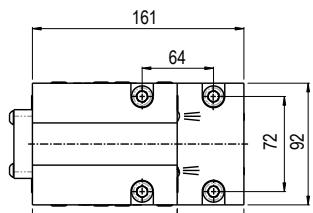
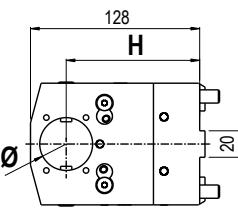


TIPO - TYPE  
Porta Barello Standard  
Boring Bar Holder



REFRIGERANTE  
COOLANT  
Interno / Esterno

Code	$\varnothing$	H	
T.TS.A10	$\varnothing 40$	85	
T.TS.A11	$\varnothing 1,5"$	85	



TIPO - TYPE  
Porta Barello Disassato  
Axial Offset Boring Bar



REFRIGERANTE  
COOLANT  
Interno / Esterno

Code	$\varnothing$	H	
T.TS.A12	$\varnothing 40$	101	
T.TS.A13	$\varnothing 1,5"$	101	



TIPO - TYPE  
Porta Barello Doppio  
Boring Bar Holder



REFRIGERANTE  
COOLANT  
Interno / Esterno

Code	$\varnothing$	H	
T.TS.A14	$\varnothing 40$	54	
T.TS.A15	$\varnothing 1,5"$	54	



[www.estore.gerardispa.com](http://www.estore.gerardispa.com)

## PIÙ SEMPLICE / PIÙ INFO / PIÙ PRODOTTI - EASIER / MORE INFO / MORE PRODUCTS

TROVA IL TUO PRODOTTO IN POCHE CLICK - FIND YOUR PRODUCT IN FEW CLICKS



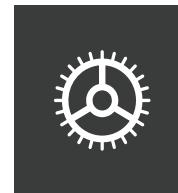
by category



by code



by description



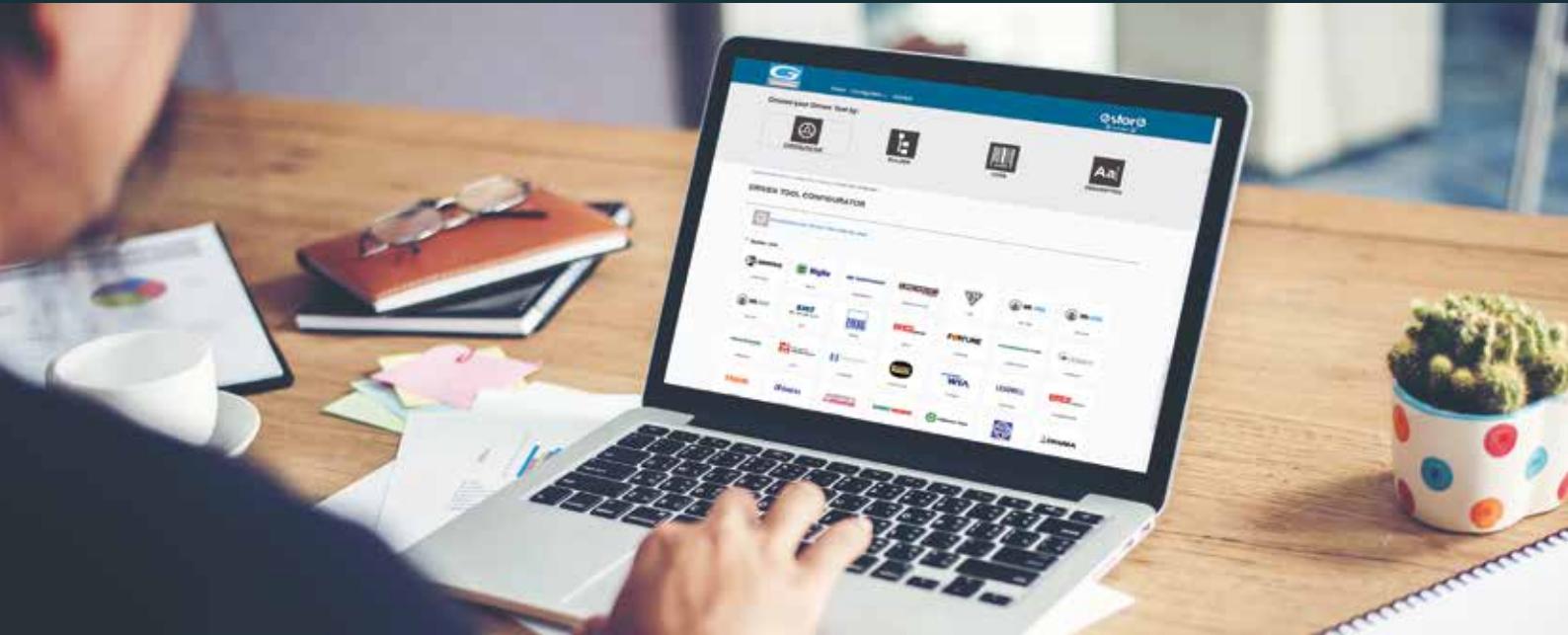
by configurator

### Un nuovo modo facile e veloce per ordinare la tua attrezzatura Gerardi

Il nuovo Gerardi estore offre la possibilità di visualizzare e ordinare qualsiasi articolo Gerardi appartenente alle categorie Workholding o Tooling presente sui nostri listini in modo semplice, veloce e completo. Da ora puoi ordinare la morsa, la testa angolare o il motorizzato che ti interessa direttamente on-line dal nostro estore senza costi aggiuntivi.

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## GERARDI PINZE - COLLETS



MADE IN ITALY



# INDICE - INDEX

PAGE **7.3 - 7.6**

## **PINZE - COLLETS**

### **SET DI PINZE**

ER COLLETS SET

### **PINZE SINGOLE ER**

ER SINGLE COLLETS

### **PINZE SINGOLE ER WP**

WP ER SINGLE COLLETS

### **PINZE SINGOLE ER COMPENSATE**

COMPENSATED ER SINGLE COLLETS

### **PINZE SINGOLE HP**

HP SINGLE COLLETS

# **SET DI PINZE ER DIN 6499 - ISO 15788**

## **COLLETS SET ER DIN6499 - ISO 15788**



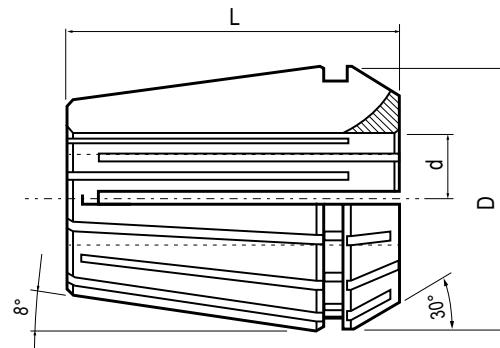
<b>TIPO TYPE</b>	<b>N° PINZE # COLLETS</b>	<b>Ø</b>	<b>Code</b>	
ER11	1 ÷ 7 - (13 Pinze - Collets)	1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7	9.ER.11000 / 13P	
ER16	1 ÷ 10 - (10 Pinze - Collets)	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	9.ER.16000 / 10P	
ER20	2 ÷ 13 - (12 Pinze - Collets)	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	9.ER.20000 / 12P	
ER25	2 ÷ 16 - (15 Pinze - Collets)	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16	9.ER.25000 / 15P	
ER32	3 ÷ 20 - (18 Pinze - Collets)	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 18 - 20	9.ER.32000 / 18P	
ER40	4 ÷ 26 - (23 Pinze - Collets)	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 18 - 20 - 21 - 22 - 23 - 24 - 24 - 25 - 26	9.ER.40000 / 23P	

# PINZE SINGOLE ER DIN 6499 - ISO 15788

## SINGLE COLLETS ER DIN6499 - ISO 15788



**Pinze ER - ER Collets**  
**Art. 170/ER**

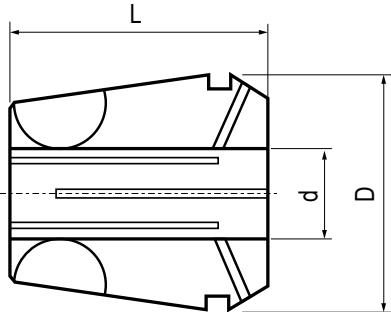


<b>TIPO TYPE</b>	<b>D</b>	<b>L</b>	<b>Ø</b>	<b>PROGRESSIONE PROGRESSION</b>	<b>DIN</b>	<b>Code</b>	
<b>ER11</b>	11,5	18	$\varnothing 1\div 7$	0,5	4008E	9.ER.11000 / 1 (Ø1)	
<b>ER16</b>	17	27,5	$\varnothing 1\div 10$	0,5	426E	9.ER.16000 / 1 (Ø1)	
<b>ER20</b>	21	31,5	$\varnothing 1\div 13$	0,5	428E	9.ER.20000 / 1 (Ø1)	
<b>ER25</b>	26	34	$\varnothing 1\div 16$	0,5	428E	9.ER.25000 / 1 (Ø1)	
<b>ER32</b>	33	40	$\varnothing 2\div 20$	0,5	470E	9.ER.32000 / 2 (Ø2)	
<b>ER40</b>	41	46	$\varnothing 3\div 30$	0,5	472E	9.ER.40000 / 3 (Ø3)	

## PINZE SINGOLE ER-WP - RESISTENTI ALL' ACQUA ER-WP - SINGLE COLLETS WATER PROOF



Set pinze - Collets set  
Art. 170/WP



**Max 40bar / 600psi**  
**Pressione esercizio**  
**Working pressure**

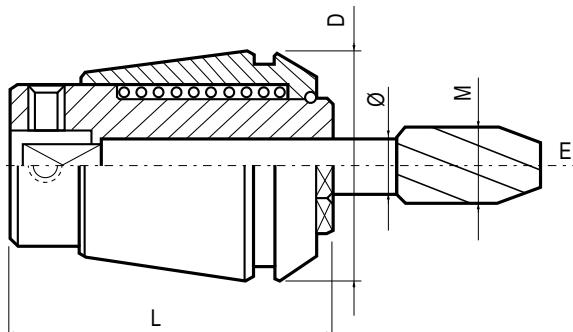
**PRECISIONE - RUN OUT**  
 **$\leq 0,010$**

TIPO TYPE	D	L	$\emptyset$	PROGRESSIONE PROGRESSION	DIN	Code	
ER11 WP	11,5	18	$\emptyset 1\div 7$	0,5	6499/A	9.WP.11000 / 3 ( $\emptyset 3$ )	
ER16 WP	17	27	$\emptyset 1\div 10$	0,5	6499/A	9.WP.16000 / 3 ( $\emptyset 3$ )	
ER20 WP	21	31,5	$\emptyset 2\div 13$	0,5	6499/A	9.WP.20000 / 3 ( $\emptyset 3$ )	
ER25 WP	26	34	$\emptyset 2\div 16$	0,5	6499/A	9.WP.25000 / 3 ( $\emptyset 3$ )	
ER32 WP	33	40	$\emptyset 3\div 20$	0,5	6499/A	9.WP.32000 / 3 ( $\emptyset 3$ )	
ER40 WP	41	46	$\emptyset 4\div 26$	0,5	6499/A	9.WP.40000 / 4 ( $\emptyset 4$ )	

## PINZE SINGOLE ET1 - COMPENSATE ET1 COMPENSATED - SINGLE COLLETS



Pinze ET1 - ET1 Collets  
Art. 170/C



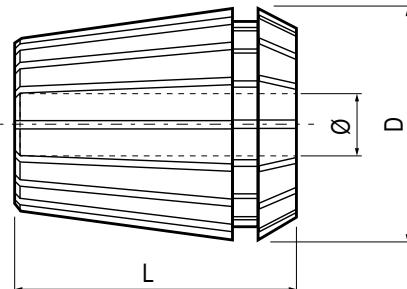
TIPO TYPE	D	L	T	$\emptyset$	MASCHIATURA TAPPING	DIN	Code	
ET16	17	27	7	$\emptyset 2,5\div 6$	M1-M6	6499	9.ET.16000 / 2,5 ( $\emptyset 2,5$ )	
ET20	21	31	7	$\emptyset 2,2\div 7$	M2-M8	6499	9.ET.20000 / 2,2 ( $\emptyset 2,2$ )	
ET25	26	34	8	$\emptyset 2,5\div 10$	M2-M12	6499	9.ET.25000 / 1 ( $\emptyset 2,5$ )	
ET32	33	43	10	$\emptyset 4,5\div 12,5$	M3,5-M16	6499	9.ET.32000 / 1 ( $\emptyset 4,5$ )	
ET40	41	54	13	$\emptyset 6\div 16$	M6-M16	6499	9.ET.40000 / 6 ( $\emptyset 6$ )	

## PINZE SINGOLE ER - HP

### ER - HP SINGLE COLLETS



Pinze HP Collets  
Art. 170/HP



**PRECISIONE - RUN OUT**  
 $\leq 0,010$

TIPO TYPE	D	L	Ø	PROGRESSIONE PROGRESSION	DIN	Code	
ER11 HP	11,5	18	Ø1÷7	0,5	6499/B	9.ER.11HP0 / 1 (Ø1)	
ER16 HP	17	27,5	Ø1÷10	0,5	6499/B	9.ER.16HP0 / 1 (Ø1)	
ER20 HP	21	31,5	Ø1÷13	0,5	6499/B	9.ER.20HP0 / 1 (Ø1)	
ER25 HP	26	34	Ø1÷16	0,5	6499/B	9.ER.25HP0 / 1 (Ø1)	
ER32 HP	33	40	Ø2÷20	0,5	6499/B	9.ER.32HP0 / 2 (Ø2)	
ER40 HP	41	46	Ø3÷30	0,5	6499/B	9.ER.40HP0 / 3 (Ø3)	