

# CATALOGO CATALOGUE

# 2024

Technology heads for **FUTURE**

Teste Angolari *Angle Heads*  
Motorizzati *Live Tools*  
Cambio Rapido *Smart Change*  
Alta Velocità *High Speed*







Alberti

# Teste angolari / Angle heads

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# IL METODO ALBERTI.



I Metodo Alberti si fonda su **5 step fondamentali** che portano passo passo il cliente dalla richiesta alla consegna della testa angolare perfetta per la sua applicazione.

È la modalità di lavoro che **ci ha resi famosi nel mondo** e che caratterizza quello che ci piace definire il nostro **Made in Italy**.

*The Alberti Method is based on **5 fundamental steps** that guide the customer step by step from the simple inquiry to the delivery of the most suitable angle head for their application.*

*Thanks to this meticulous method alberti has become famous worldwide and appreciated for the made in italy quality.*



- 1** | Analisi  
*Analysis*



- 2** | Progettazione  
*Study and design*



- 3** | Creazione  
*Creation*



- 4** | Produzione  
*Production*



- 5** | Assistenza  
*Assistance*



## 1970

L'azienda Alberti S.r.l. nasce per la costruzione di modelli da fonderia. Quando Umberto – il fondatore – rileva l'azienda del padre si trova a progettare e costruire la sua prima testa angolare non essendoci nulla di simile in commercio.

*The company Alberti S.r.l. was originally founded for the construction of foundry models. When Umberto – the founder – took over his father's company, he started to design and build his first angle head as he couldn't find anything similar on the market.*

## 1980

Alberti S.r.l. inizia a pensare e produrre su larga scala. Vengono acquistati i primi macchinari: il primo centro di lavoro Olivetti e i primi torni Biglia e Mori Seiki. Nasce la rete distributiva internazionale per ampliare le vendite e far arrivare la tecnologia anche all'estero.

*Alberti S.r.l. began to think and produce on a large scale. The first machine was purchased: the first Olivetti machining center and the first Biglia and Mori Seiki lathes. The international distribution network was established to expand sales and get the technology abroad.*

## 1990

La Alberti si trasferisce a Saronno: cresce di dimensione e inizia a diversificare la produzione, introducendo alcune linee di motorizzati e la customizzazione per alcuni prodotti.

*Alberti S.r.l. moved to Saronno: it grew in size and began to diversify production by introducing some live tools and customization for some products.*

## 2000

La produzione si arricchisce delle teste angolari ad alta velocità con motori ad aria ed elettrici.  
*Production now included high-speed angle heads with air and electric motors.*

## 2010

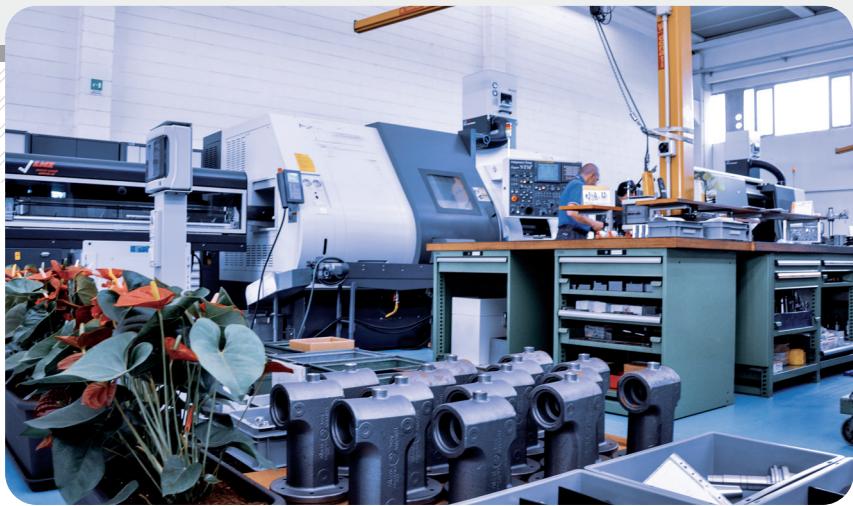
È l'anno del trasferimento nella nuova sede e del progressivo ampliamento del parco macchine. L'azienda consolida la rete distributiva con centri di riparazione e service in Usa, Cina e India.

*The company moved to the new headquarters and expanded its range of machines. The company consolidated its distribution network with repair and service centers in the USA, China, and India.*

## 2020

Negli ultimi 10 anni raddoppia la dimensione aziendale. Viene aggiunto il sistema di prototipazione in 3D. Ad oggi, tra produzione e ufficio tecnico, si contano 35 persone.

*In the last 10 years, the company has doubled in size. The 3D prototyping system has been added. Today there are overall 35 employees in the production and technical department.*



## CHI SIAMO.

Alberti Umberto S.r.l. è un'azienda innovativa - 4000 mq dedicati all'avanguardia della tecnologia grazie a un reparto produttivo ampio per ospitare tutto il parco macchine, un reparto di logistica capillare e un magazzino ricambi decisamente strutturato per rispondere alle eventuali necessità di oltre 60.000 prodotti consegnati nel mondo.

Alberti Umberto S.r.l. is an innovative company - 4000 m<sup>2</sup> dedicated to cutting-edge technology thanks to a large production department which accommodates a good number of machining centers, a logistics department and a well structured spare parts warehouse to quickly respond to any needs for the over 60,000 products delivered worldwide.

## MISSION.

Siamo il partner ideale per chiunque necessiti di soluzioni complete di alta qualità. Mettiamo la genialità e la tecnica al servizio della produzione, ampliando e ottimizzando le capacità della macchina con una diminuzione sostanziale dei tempi di attrezzamento.

Da oltre 40 anni siamo il punto di riferimento di chi cerca l'eccellenza in questo settore.

We are the ideal partner for anyone needing a complete solution with high quality products. Our expertise and know how is supporting the production, expanding and optimizing the capacity of the machine with a substantial reduction of setup times.

For over 40 years we have been a reference point for those looking for excellence in this sector.



# CARATTERISTICHE TECNICHE Teste Alberti.

## Technical Data

Albero con cono in acciaio cementato e temperato. Realizzato in un solo pezzo per aumentare il carico alla flessione del 25%, interamente rettificato ed equilibrato a 6,3G. Riesce a raggiungere alte velocità senza vibrazioni.

*Spindle with arbor made as one solid piece of hardened steel to increase resistance to bending stress up to 25%. Completely ground and balanced at 6,3G. Possibility to reach higher RPM without vibrations.*

Corpo testa in ghisa sferoidale GS-600 stabilizzata per un assorbimento totale delle vibrazioni. Stabilità termica e rigidità superiori ad altri materiali (es. acciaio e alluminio). Cromatura opaca sul corpo e sedi dei cuscinetti interamente rettificate.

*Casting made of GS 600 stabilized spheroidal cast iron to better absorb vibrations. Increased thermal stability and rigidity compared to materials such as steel and aluminum. Mat chromed finishing outside and ground bearing housing*

Cuscinetti a contatto obliqui precaricati in ABEC7-ABEC9. Con le sedi rettificate del corpo permettono una perfetta concentricità e stabilità di tutti gli organi rotanti, necessaria per raggiungere performance di lavorazioni superiori.

*Angular contact super precision bearings with ABEC 7 and 9 accuracy rate. Mounted in ground bearing housing inside of the body, they ensure a perfect concentricity and stability during machining.*

Sia le tenute standard realizzate in mescola speciale a bassissimo coefficiente d'attrito che quelle per adduzione refrigerante fino a 100bar sono state studiate e costruite internamente all'azienda e con la possibilità di avere un numero di giri più elevato e l'utilizzo anche a secco.

*Either the standard seals made of a special material with low-friction capability and the new high pressure seals up to 100 bar are studied and developed by Alberti with possibility of increased RPM and dry running.*

Ingranaggi realizzati superleghe di acciaio vengono trattati con lucidatura isotropica che conferisce una rugosità pari a 0,01Ra e un abbattimento notevole del calore e delle vibrazioni. Le nuove coppie – rigorosamente a dentatura spiroideale conica con evolvente rettificato – si differenziano per un modulo maggiorato con un conseguente aumento del torque e un sistema di trascinamento a rullini.

*Gears made of steel superalloy are treated with isotropic polishing which allows to reach 0,01Ra roughness with dramatic reduction of the vibration and friction. The new spiral bevel gears with ground involute are manufactured with bigger module to increase dramatically the torque and a new driving system with pins without the use of any key.*

ALBERO CON CONO  
SPINDLE W/ARBOR



CORPO TESTA  
BODY



CUSCINETTI  
BEARINGS



GUARNIZIONI  
SEALS



INGRANAGGI  
GEARS



Tutti i particolari sono caratterizzati da nostro logo e codice per garantire l'autenticità del prodotto e facilitare la ricerca dei particolari di ricambio. Tutti i controlli sono affidati alla macchina di misura di alta precisione in camera controllata.

All spare parts are laser marked with Alberti logo to guarantee the authenticity and simplify the recognition of each single item. All parts are measured with our new high precision 3D measuring machine inside a controlled room temperature.



### FASCE LAPPATE LAPPED SURFACE



Fascie lappate per il corretto allineamento dell'utensile

Lapped side surface for correct alignment of the tool.



### QR CODE QR CODE

Le nostre teste dispongono di un QR Code per consentirne una facile e rapida identificazione.

Our angular heads have a QR Code that enables an easy and quick identification.



### MANDRINO SPINDLE

Albero porta-utensile in acciaio legato, temperato e con doppio labirinto. Completamente rettificato, con tolleranze inferiori ai 5 micron, per garantire una durata maggiore dell'utensile in lavorazione.

Output spindle made of hardened alloyed steel with double labyrinth seal. Completely ground with tolerance lower than 5 micron to ensure a longer tool life.

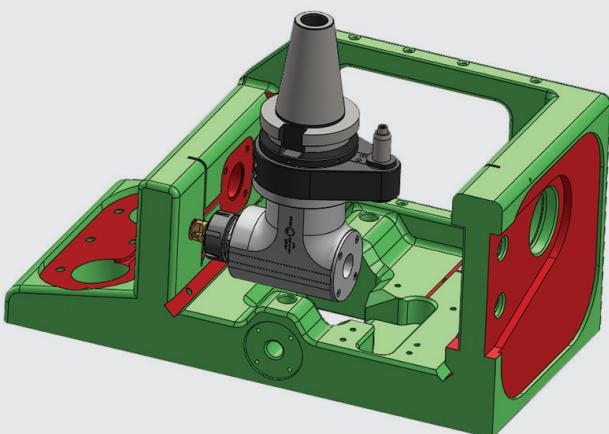


Nuovo e pratico sistema che facilita l'operazione di serraggio utensile sfruttando una chiave di contrasto da inserire sull'albero in modo da avere una mano libera.

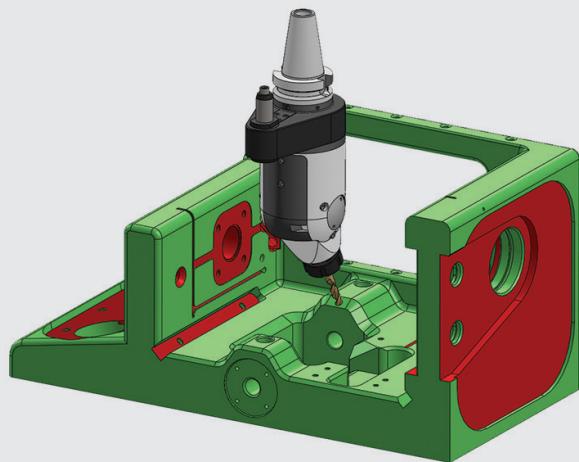
An easy-to-use system made of one special wrench to be fitted in the toolholder enabling the use of both hands to tighten the tool.

# Esempi di **LAVORAZIONE STANDARD.**

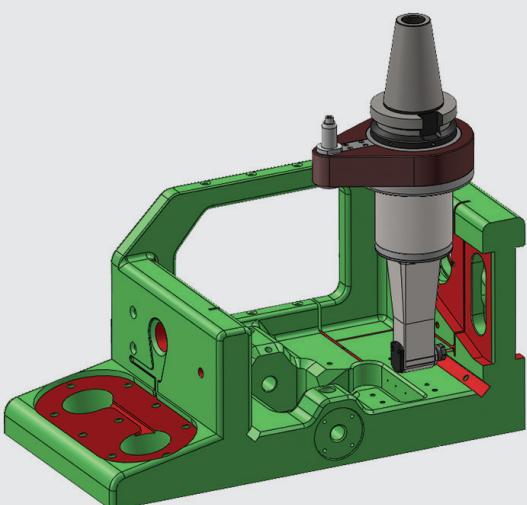
## *Examples of standard machining*



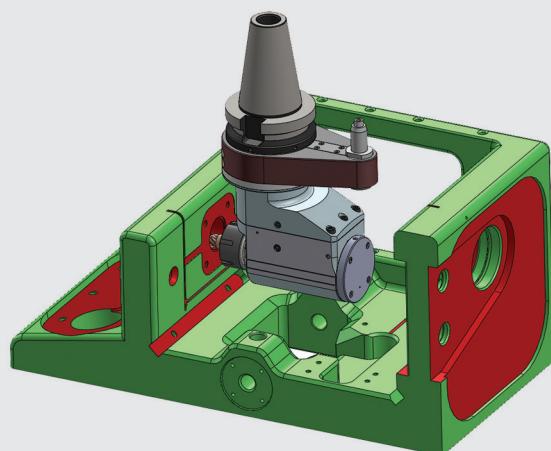
Testa a 90°  
*90° head*



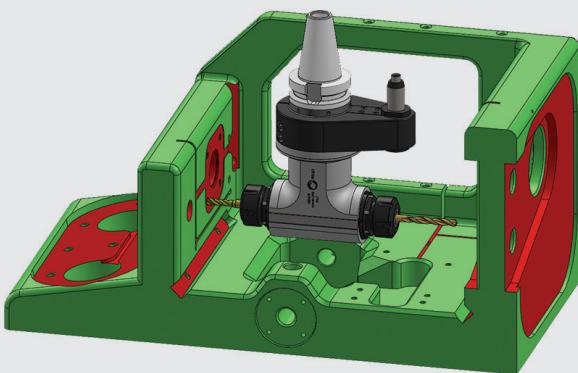
Testa ad inclinazione regolabile  
*Head with adjustable angle +/- 90°*



Testa a 90° prolungata  
*Extended lenght head*

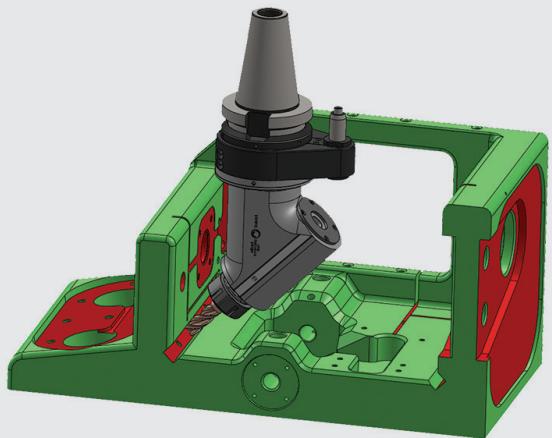


Testa con refrigerante  
*Head with internal coolant*



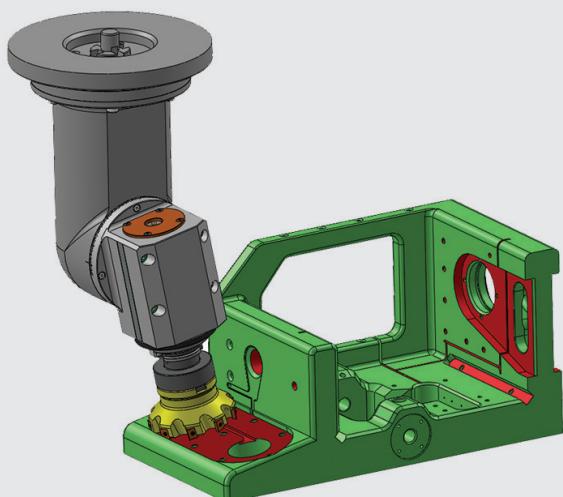
Testa con uscita doppia (180°)

*Dual output head (180°)*



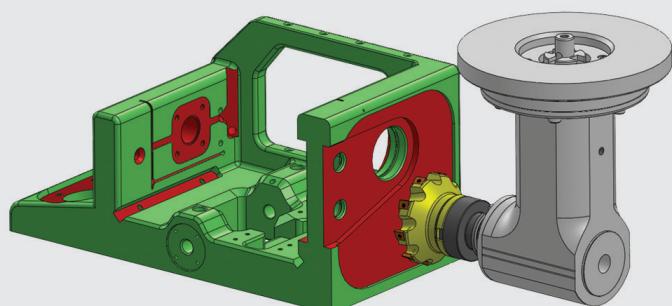
Testa ad inclinazione fissa

*Head with special fixed angle*



Testa orientabile di grosse dimensioni con montaggio manuale

*Big sized adjustable head with manual mounting*



Testa fissa di grosse dimensioni con montaggio manuale

*Big sized fixed head with manual mounting*

# SCEGLIERE LA TESTA in base alla grandezza del portautensile.

*How to choose your head according to the size of the toolholder*



SHaublin

PINZA/COLLET ER-8	WELDON Ø 6 mm	P6 (0,5-4,5 mm)
Testa/Head		Pag
T90cn-0.4		20
TR90cn-0.4		21
T90-0.4		108



PINZA/COLLET ER-11 WELDON Ø 6 mm

Testa/Head	Pag
T90cn-0.5 C NEO	22
T90cn-0.5 C NEO IC	23
T90cn-0.5 L NEO	24
T90cn-0.5 L NEO IC	25
TR90cn-0.5 (ER-AX 11)	26
T90cn-0.5M	86
TCUcn-0.5M	87
T90-0.5C NEO (modular)	109
T90-0.5L NEO (modular)	110



PINZA/COLLET ER-16 WELDON Ø 10 mm PORTAFRESA/SHELL MILL HOLDER 10 mm

Testa/Head	Pag
T90cn-1.5C NEO	27
T90cn-1.5C NEO IC	28
T90cn-1.5L NEO	29
T90cn-1.5L NEO IC	30
T90cn-1.5 2U NEO	31
TR90cn-1.5 (ER-AX-16)	32
THRcn-1.5 NEO IC	33
TCUcn-1.5 NEO	34
T90cn-1.5M	88
T90-1.5 NEO (modular)	111
T90-1.5L NEO (modular)	112
T90-1.5 2U NEO (modular)	113

PINZA/COLLET ER-25 WELDON Ø 16 mm PORTAFRESA/SHELL MILL HOLDER 16 mm

T90cn-2.5C NEO	35
T90cn-2.5C NEO IC	36
T90cn-2.5L NEO	37
T90cn-2.5L NEO IC	38
T90cn-2.5 2U NEO	39
TR90cn-2.5 (ER-AX 25)	40
THRcn-2.5 NEO IC	41
TCUcn-2.5 NEO	42
T90-2.5 NEO (modular)	114
T90-2.5L NEO (modular)	115
T90-2.5 2U NEO (modular)	116
TCU-2.5 NEO (modular)	117



PINZA/COLLET ER-32 WELDON Ø 20 mm PORTAFRESA/SHELL MILL HOLDER 27 mm

Testa/Head	Pag
T90cn-3.5C NEO	43
T90cn-3.5C NEO IC	44
T90cn-3.5L NEO	45
T90cn-3.5L NEO IC	46
T90cn-3.5 2U NEO	47
TR90cn-3.5 (ER-AX 32)	48
THRcn-3.5 NEO IC	49
TCUcn-3.5 NEO	50
T90cn-3.5 SC	56
T90cn-3.5 ALLUMINIUM SC	57
TCUcn-3.5 NEO SC	58
T90-3.5 NEO (modular)	118
T90-3.5L NEO (modular)	119
T90-3.5 2U NEO (modular)	120
TCU-3.5 NEO (modular)	121

PINZA/COLLET ER-40 WELDON Ø 25 mm PORTAFRESA/SHELL MILL HOLDER 27 mm

T90cn-4.5C NEO	59
T90cn-4.5C NEO IC	60
T90cn-4.5L NEO	61
T90cn-4.5L NEO IC	62
T90cn-4.5 2U NEO	63
TR90cn-4.5	64
T90-4.5C NEO (modular)	122
T90-4.5L NEO (modular)	123
T90-4.5 XL (modular)	123 bis



PINZA/COLLET ISO40 DIN69871 - BT40 - CAT40 CAPTO C4 HSK63

Testa/Head	Pag
T90cn-5C NEO	65
T90cn-5C NEO IC	66
T90cn-5L NEO	67
T90cn-5L NEO IC	68
T90-5C NEO	124
T90-5L NEO	125
T90-5XL	125 bis
T90-8 NEO	126
TDU-8	127
T90-8 XL NEO	128 - 129
TCU-8 IC 15 BAR	130

PINZA/COLLET ISO50 DIN69871 - BT50 - CAT50 HSK63

T90-10 NEO IC	131
TDU-10	132
TCU-10 IC 15 BAR	133
TR90-15	134 - 135

## SCEGLIERE LA TESTA in base alla grandezza del cono.

How to choose your head according to the size of the shank

### CONO/SPINDLE ISO/BT 30

Testa/Head	Pag
T90cn-0.5M	86
TCUcn-0.5M	87
T90cn-1.5M	88
Turbodrill	98 - 99

### CONO/SPINDLE ISO/BT/CAT 40

Testa/Head	Pag
SLIMLINE	78 - 79
ULTRASLIM	80 - 83
T90cn-0.4	20
TR90cn-0.4	21
T90cn-0.5C NEO	22
T90cn-0.5C NEO IC	23
T90cn-0.5L NEO	24
T90cn-0.5L NEO IC	25
TR90cn-0.5	26
T90cn-1.5C NEO	27
T90cn-1.5C NEO IC	28
T90cn-1.5L NEO	29
T90cn-1.5L NEO IC	30
T90cn-1.5 2U NEO	31
TR90cn-1.5 (ER-AX-16)	32
THRcn-1.5 NEO IC	33
TCUcn-1.5 NEO	34
T90cn-2.5C NEO	35
T90cn-2.5C NEO IC	36
T90cn-2.5L NEO	37
T90cn-2.5L NEO IC	38
T90cn-2.5 2U NEO	39
TR90cn-2.5 (ER-AX 25)	40
THRcn-2.5 NEO IC	41
TCUcn-2.5 NEO	42
T90cn-3.5C NEO	43
T90cn-3.5C NEO IC	44
T90cn-3.5L NEO	45
T90cn-3.5L NEO IC	46
T90cn-3.5 2U NEO	47
TR90cn-3.5 (ER-AX 32)	48
THRcn-3.5 NEO IC pag 49	49
TCUcn-3.5 NEO pag 50	50
T90cn-3.5 NEO SC pag 56	56
TCUcn-3.5 NEO SC pag 58	58
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### CONO/SPINDLE HSK63

Testa/Head	Pag
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ULTRASLIM	80 - 83
T90cn-0.4	20
TR90cn-0.4	21
T90cn-0.5C NEO	22
T90cn-0.5C NEO IC	23
T90cn-0.5L NEO	24
T90cn-0.5L NEO IC	25
TR90cn-0.5	26
T90cn-1.5C NEO	27
T90cn-1.5C NEO IC	28
T90cn-1.5L NEO	29
T90cn-1.5L NEO IC	30
T90cn-1.5 2U NEO	31
TR90cn-1.5 (ER-AX-16)	32
THRcn-1.5 NEO IC	33
TCUcn-1.5 NEO	34
T90cn-2.5C NEO	35
T90cn-2.5C NEO IC	36
T90cn-2.5L NEO	37

### CONO/SPINDLE HSK63

Testa/Head	Pag
T90cn-1.5L NEO IC	30
T90cn-1.5 2U NEO	31
TR90cn-1.5 (ER-AX-16)	32
THRcn-1.5 NEO IC	33
TCUcn-1.5 NEO	34
T90cn-2.5C NEO	35
T90cn-2.5C NEO IC	36
T90cn-2.5L NEO	37

### CONO/SPINDLE

ISO/BT/  
CAT 50      HSK  
80/100

Testa/Head	Pag	Pag
T90cn-2.5L NEO IC	38	38
T90cn-2.5 2U NEO	39	39
TR90cn-2.5 (ER-AX 25)	40	40
THRcn-2.5 NEO IC	41	41
TCUcn-2.5 NEO	42	42
T90cn-3.5C NEO	43	43
T90cn-3.5C NEO IC	44	44
T90cn-3.5L NEO	45	45
T90cn-3.5L NEO IC	46	46
T90cn-3.5 2U NEO	47	47
TR90cn-3.5 (ER-AX 32)	48	48
THRcn-3.5 NEO IC	49	49
TCUcn-3.5 NEO	50	50
T90cn-3.5 NEO SC	56	56
TCUcn-3.5 NEO SC	58	58
T90cn-4.5C NEO	59	59
T90cn-4.5C NEO IC	60	60
T90cn-4.5L NEO	61	61
T90cn-4.5L NEO IC	62	62
T90cn-4.5 2U NEO	63	63
TR90cn-4.5	64	64
T90cn-5C NEO	65	65
T90cn-5C NEO IC	66	66
T90cn-5L NEO	67	67
T90cn-5L NEO IC	68	68
Tutte le teste Modular All modular heads	108 - 135	108 - 135
High Speed Line	90 - 96	90 - 96

### CONO/SPINDLE

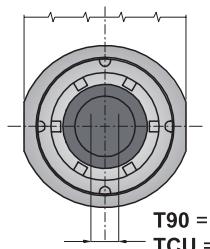
ISO/BT/  
CAT 50      HSK  
80/100

Testa/Head	Pag	Pag
SLIMLINE	78 - 79	78 - 79
ULTRASLIM	80 - 83	80 - 83
T90cn-0.4	20	20
TR90cn-0.4	21	21
T90cn-0.5C NEO	22	22
T90cn-0.5C NEO IC	23	23
T90cn-0.5L NEO	24	24
T90cn-0.5L NEO IC	25	25
TR90cn-0.5	26	26
T90cn-1.5C NEO	27	27
T90cn-1.5C NEO IC	28	28
T90cn-1.5L NEO	29	29
T90cn-1.5L NEO IC	30	30
T90cn-1.5 2U NEO	31	31
TR90cn-1.5 (ER-AX-16)	32	32
THRcn-1.5 NEO IC	33	33
TCUcn-1.5 NEO	34	34
T90cn-2.5C NEO	35	35
T90cn-2.5C NEO IC	36	36
T90cn-2.5L NEO	37	37



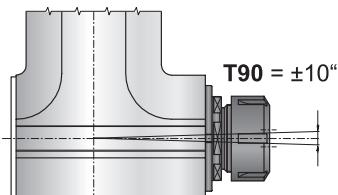
## DATI TECNICI.

### Technical Data



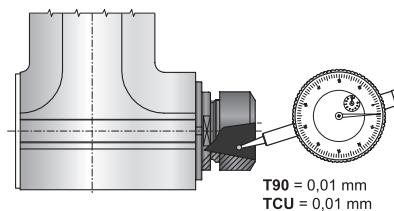
Disassamento tra albero in entrata e mandrino portautensile

*Maximum misalignment of input and output drive spindle*



Errore angolare del mandrino portautensile rispetto al 90° teorici

*Tool spindle angular variation relative to 90° (theoretical value)*



Oscillazione mandrino portautensile con testa in rotazione

*Maximum runout of output spindle*

## MASCHIATURA.

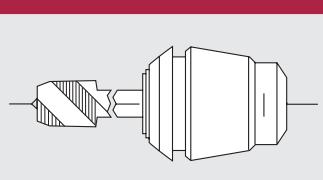
### Tapping

Per le operazioni di maschiatura, tutte le teste standard possono utilizzare le **pinze compensate**. Queste pinze sono **perfettamente intercambiabili con le normali pinze elastiche** utilizzate per le altre operazioni, e permettono ai maschi di avere una corsa assiale di compensazione per eventuali errori di avanzamento e per l'inversione della rotazione.

La stessa testa, quindi, può essere impiegata sia per forare che per maschiare compatibilmente alla capacità della relativa pinza.

For tapping operations, all standard heads can be equipped with **axially-compensating collets**. These collets are **fully interchangeable with the normal collets** and allow the tap to move axially thereby compensating for any feed error and facilitating reversal of direction of rotation.

A single head can therefore be used for both drilling and tapping, up to the diameter allowed by the collet.



Head / Tipo testa	Collet / Tipo Pinza	Capacity / Capacità	Shift / Corsa
T90-1,5	ET-1-16	M1-M6	7 mm
T90/TCU-2,5	ET-1-25	M1-M12	8 mm
T90/TCU-3,5	ET-1-32	M4-M16	10 mm
T90-4,5	ET-1-40	M6-M20	13 mm

**NOTE:** Ogni pinza può portare una sola grandezza di maschio. Perciò sarà necessario specificare, in sede di ordine, il diametro del gambo del maschio che si intende utilizzare. *Each collet is designed to accommodate an individual tap size. Therefore, please specify the tap shank diameter when ordering collets.*

# Per una CORRETTA ORDINAZIONE.

## Data sheet form



**TESTA PER  
CAMBIO UTENSILE  
AUTOMATICO**

*Angle head for  
automatic tool change*

1. Tipo di portautensile e diametro utensile  
*Type of tool holder and cutting tool diameter*

2. Cono di attacco alla macchina  
*Machine spindle*

3. Distanza tra perno e cono attacco testa  
*Distance between pin and spindle*

4. Tipo di macchina e peso al cambio utensile  
*Type of the machine and weight at tool change*

5. **Stop Block**  
Già presente in macchina oppure da realizzare  
*Already installed or to be manufactured*

### OPTION

- Refrigerante interno  
*Internal coolant*

- Doppia uscita  
*Dual output*

- Portautensile diverso  
*Different tool holder*

- Lunghezza extra  
*Extra length*



**TESTA PER  
MONTAGGIO  
MANUALE**

*Angle head for  
manual mounting*

1. Tipo di portautensile e diametro utensile  
*Type of tool holder and cutting tool diameter*

2. Cono di attacco alla macchina  
*Machine spindle*

### OPTION

- Refrigerante interno  
*Internal coolant*

- Doppia uscita  
*Dual output*

- Portautensile diverso  
*Different tool holder*

- Lunghezza extra  
*Extra length*

# LINEA CONTROL

La **LINEA CONTROL** comprende una serie di teste angolari adatte ad essere montate nel magazzino utensile e quindi essere scambiate automaticamente. La corretta installazione prevede il montaggio di uno **stop block** a bordo macchina. Per una maggior rigidità il cono di attacco alla macchina è realizzato in un unico pezzo con l'albero principale.

*CONTROL LINES include a wide range of angle heads to be used on machining centres with ATC and therefore can be mounted in the tool magazine and automatically exchanged in the machine spindle. A **stop block** mounted on the machine spindle ensure a correct positioning and prevents rotation. The input spindle is one solid piece with the main shaft to grant a higher rigidity.*

**SCANNERIZZA IL QR CODE**  
per le istruzioni di montaggio

**SCAN THE QR CODE**  
for the set-up instructions



**Dimensione STOP BLOCK per teste**  
Dimensions STOP BLOCK for heads

T90cn-0,4 / 0,5 / 1,5 / 2,5 / 3,5 / 4,5



**Dimensione STOP BLOCK per teste**  
Dimensions STOP BLOCK for heads

T90cn-5



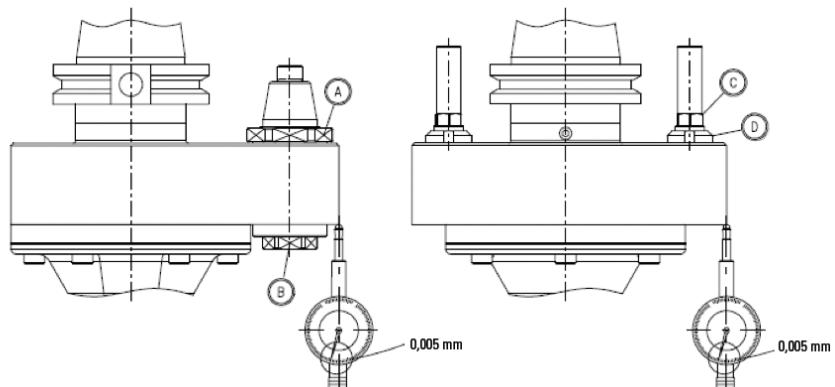
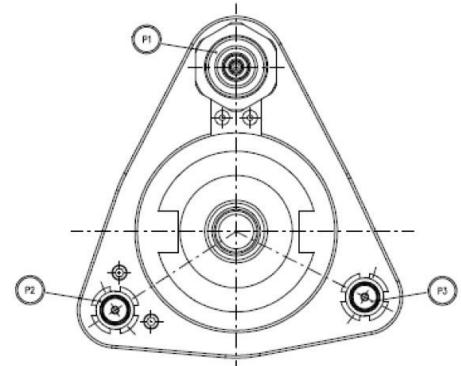
## SUPPORTO 3 PUNTI.

### *3 point support*

Per aumentare la rigidità e stabilità durante la lavorazione, è possibile realizzare una **flangia con 3 punti di supporto**. La flangia viene realizzata su misura a seconda delle dimensioni del mandrino macchina. Solitamente per questo tipo di realizzazione si prevede un magazzino esterno o una stazione pick up per accogliere la testa.

Ogni flangia con 3 punti di appoggio viene **realizzata ad hoc** in base al mandrino macchina pertanto non esiste uno standard. I punti di appoggio sono tutti regolabili e devono essere registrati durante la prima installazione.

*In order to increase rigidity and stability during machining, Alberti can build a **special flange with 3 point support system**. The flange is custom-made according to the dimension of the machine spindle. With this system the head cannot be loaded into the tool magazine but requires an external uploading or pick up station.*



**SCANNERIZZA  
IL QR CODE**  
per le istruzioni  
di montaggio

**SCAN THE  
QR CODE**  
for the set-up  
instructions





## Esempi di **STOP BLOCK E PERNO.**

*Examples of stop blocks and pins*

In caso non fosse possibile utilizzare uno dei perni o stop block già disponibili, Alberti fornisce tutta l'assistenza necessaria per **realizzare uno stop block ad hoc per la propria macchina**. Di seguito alcuni esempi.

*In case the customer cannot use any of the pins or stop block already available, Alberti will help in finding the correct solution and provide the customized stop block for the machine. Following few examples.*



**A**

Cod: 5951800001

Perno e stop block  
Alberti standard  
Alberti standard  
Pin and Block

**B**

Cod: 59518006

Perno e stop block  
Alberti standard  
Alberti standard  
pin and block

**C**

Cod: 5951800073

Perno e stop block conico  
regolabile standard  
Standard conical pin  
and stop block

**D**

Cod: 4951800091

Perno e stop block  
prismatico  
Prismatic pin  
and stop block

**E**

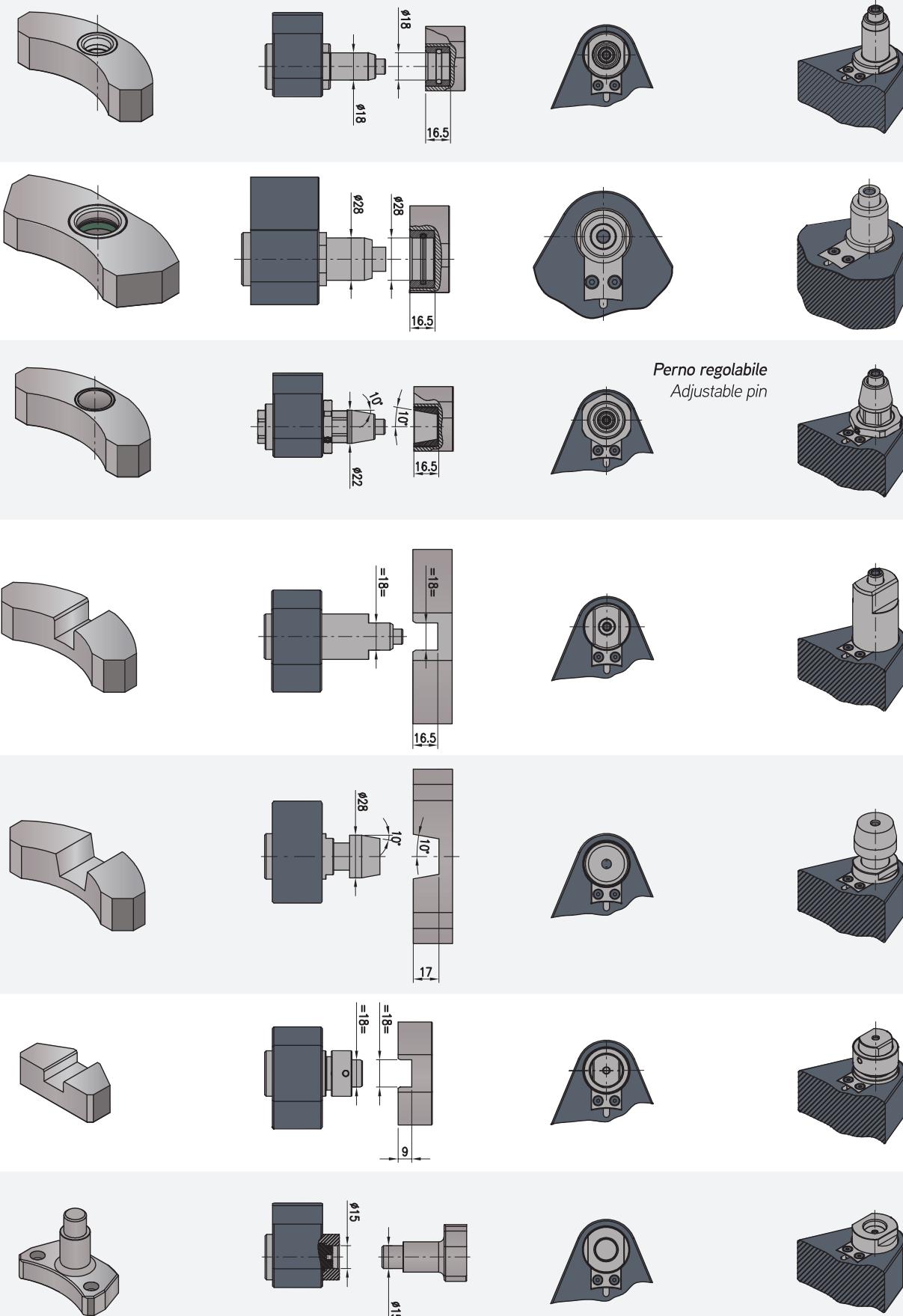
Perno flottante  
Floating pin

**F**

Perno maschio speciale  
Special male pin

**G**

Perno femmina speciale  
Special female pin



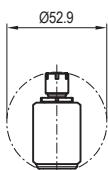
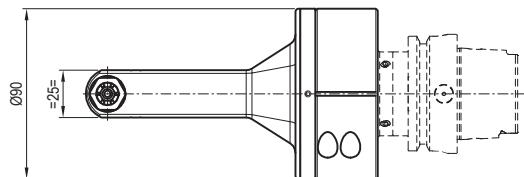
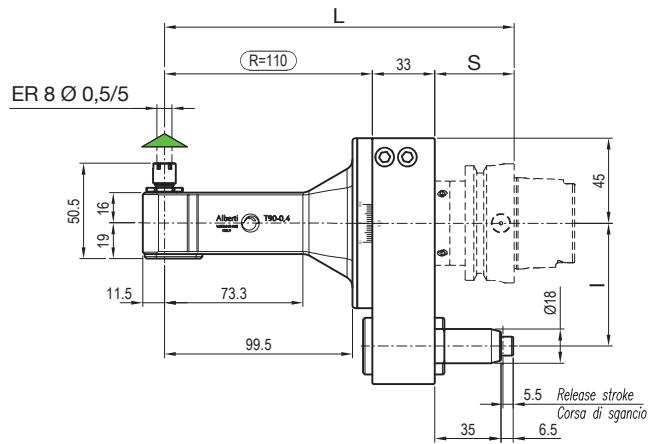
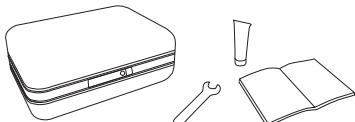
Perno regolabile  
Adjustable pin

## T90cn-0.4C

## ACT9004C

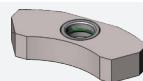
## Technical data

Caratteristiche tecniche

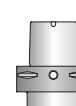
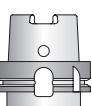
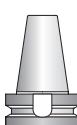
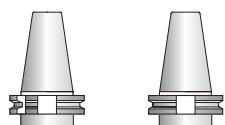
Ratio  
Rapporto  
1:1RPM  
Velocità  
 $10.000 \text{ min}^{-1}$ Max. axial load  
Max. carico assiale  
**100 N**Torque  
Momento torcente  
**4 Nm**Weight  
Peso  
**4 kg**Collet  
Pinza  
**ER-8 ( $\varnothing 0,5/5$  mm)**Minimum diameter without tool  
Diametro minimo senza utensile\* STANDARD EQUIPMENT  
includes:

Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



KM

Shank / Cono		DIN-69871		CAT		MAS-BT		HSK		CAPTO		KM
Size / Grandezza		40	50	40	50	40	50	63-80	100	C5-C6	C8	50-63
I		65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)
S		35	35	35	41	41	41	42	45	38	40	40
L		178	178	178	184	184	184	185	188	181	183	183

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

## Opzione / Option



bar max

12

Coolant through pin

Adduzione refrigerante attraverso il perno

 $\emptyset$  mm max.

6

Weldon output

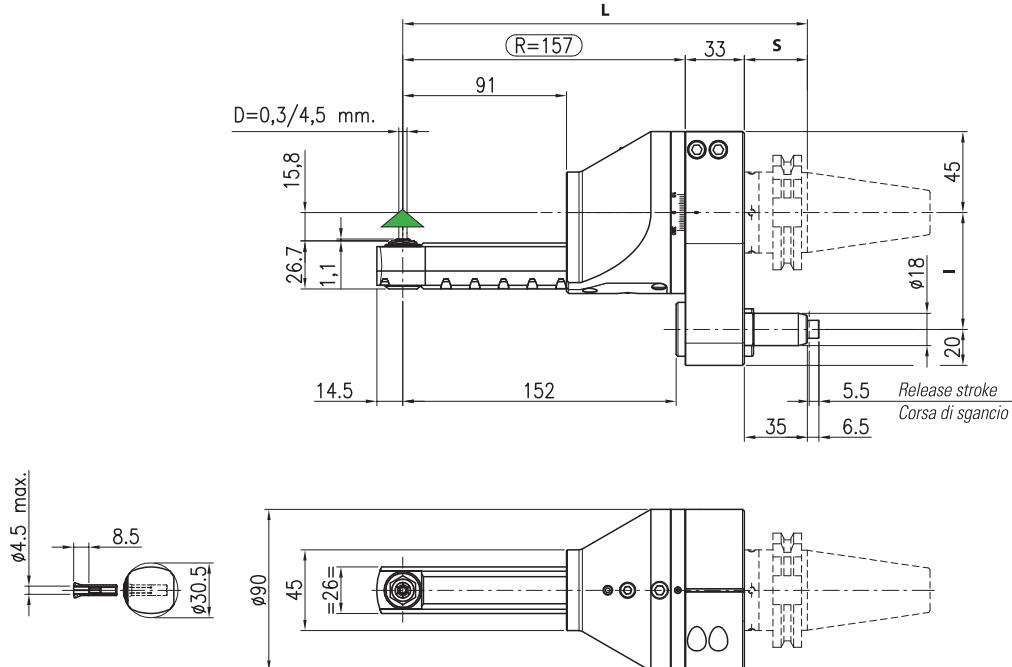
Weldon

# TR90cn-0.4

## ACTR904C

### Technical data

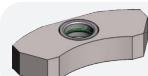
Caratteristiche tecniche



Minimum diameter without tool  
Diametro minimo senza utensile

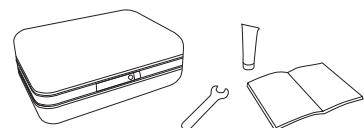
- Ratio**  
Rapporto  
**1:2.375 SPEEDER**
- RPM**  
Velocità  
**8.000 min<sup>-1</sup> OUTPUT**
- Max. axial load**  
Max. carico assiale  
**135 N**
- Torque**  
Momento torcente  
**8 Nm**
- Weight**  
Peso  
**4,5 kg**
- Collet**  
Pinza  
**SCHAUBLIN P6**

\* STANDARD EQUIPMENT  
includes:



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	225	225	225	231	232	235

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

#### Option / Opzione



bar max  
100

Coolant through spindle

Adduzione refrigerante attraverso il cono



bar max  
12

Coolant through pin

Adduzione refrigerante attraverso il perno

# T90cn-0.5C Neo

## ACT9005C

**Technical data**

Caratteristiche tecniche



Ratio

Rapporto  
1:1

RPM

Velocità  
8.000 min<sup>-1</sup>Max. axial load  
Max. carico assiale  
150 N

Torque

Momento torcente  
12 Nm

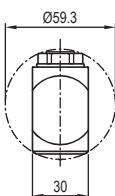
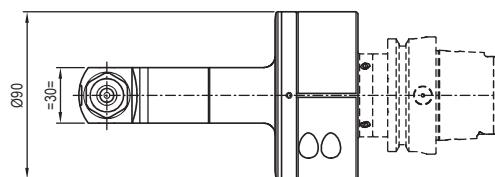
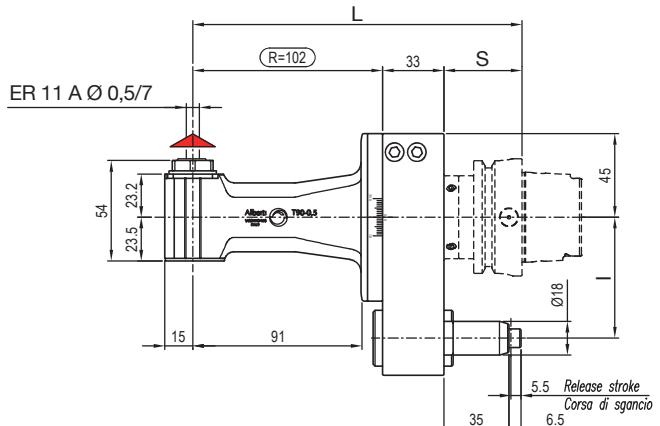
Weight

Peso  
4 kg

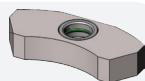
Tapping

Maschiatura  
Max. M5

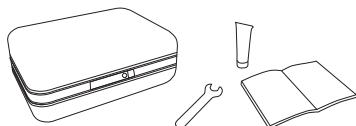
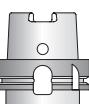
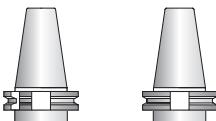
Collet

Pinza  
ER-11A ( $\phi$  0,5/7 mm)Minimum diameter without tool  
Diametro minimo senza utensile**\* STANDARD EQUIPMENT**  
includes:

Retaining block / Tassello di ritegno / Stop-Block



NOT INCLUDED - NON INCLUSO

Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino  
Dry rotation is possible / rotazione a secco possibile

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	38
L	170	170	170	176	177	173

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

**Option / Opzione**

bar max

12

Coolant through pin  
Refrigerante attraverso il perno

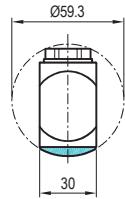
Ø mm max.

6

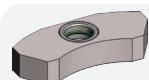
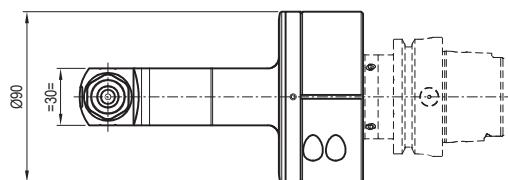
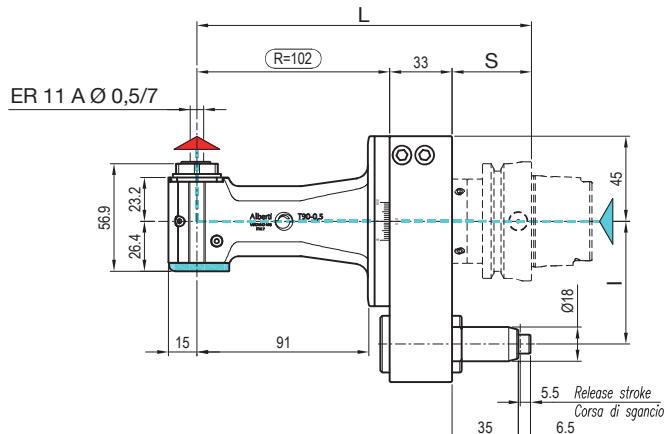
Weldon output  
Weldon

# T90cn-0.5C Neo IC

## ACT9005C.IC



Minimum diameter without tool  
Diametro minimo senza utensile



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

### Technical data

Caratteristiche tecniche



Ratio

Rapporto

1:1



RPM

Velocità

10.000 min<sup>-1</sup>

DRY  
Running  
8.000 min<sup>-1</sup>



Max. axial load

Max. carico assiale

150 N



Torque

Momento torcente

12 Nm



Weight

Peso

4 kg



Tapping

Maschiatura

Max. M5

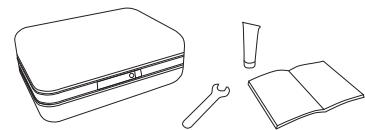


Collet

Pinza

ER-11A (Ø 0,5/7 mm)

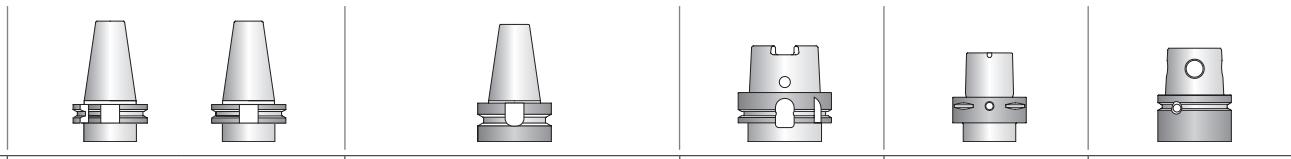
\* STANDARD EQUIPMENT  
includes:



▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	150	150	150	156	157	160

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



Ø mm max.

6

Weldon output  
Weldon

**T90cn-0.5L Neo****ACT9005L****Technical data**

Caratteristiche tecniche



## Ratio

Rapporto  
1:1

## RPM

Velocità  
8.000 min<sup>-1</sup>

## Max. axial load

Max. carico assiale  
150 N

## Torque

Momento torcente  
12 Nm

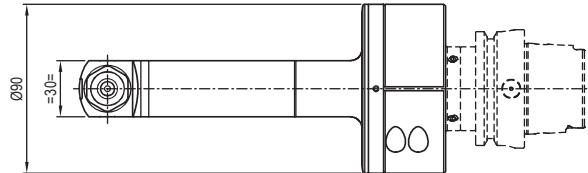
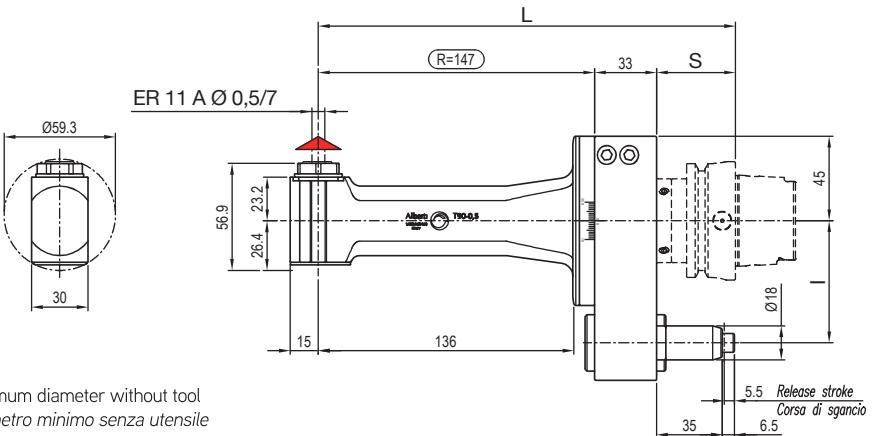
## Weight

Peso  
4.4 kg

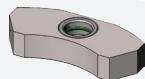
## Tapping

Maschiatura  
Max. M5

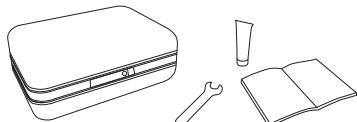
## Collet

Pinza  
ER-11A ( $\varnothing$  0,5/7 mm)**\* STANDARD EQUIPMENT includes:**

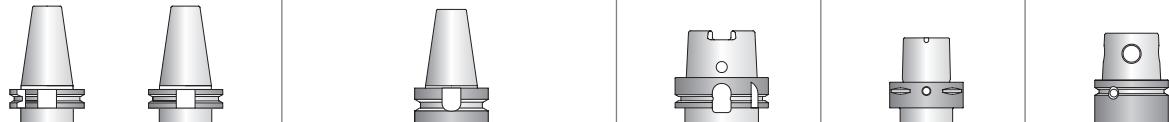
Retaining block / Tassello di ritegno / Stop-Block



NOT INCLUDED - NON INCLUSO



Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino  
Dry rotation is possible / rotazione a secco possibile



Spindle / Cono	DIN-69871		CAT		MAS-BT		HSK		CAPTO		KM
Size / Grandezza	40	50	40	50	63-80	100	C5-C6	C8	63		
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)
S	35	35	35	41	42	45	38	40	40	40	
XL	215	215	215	221	222	225	218	220	220	220	

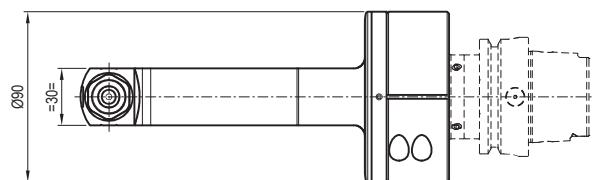
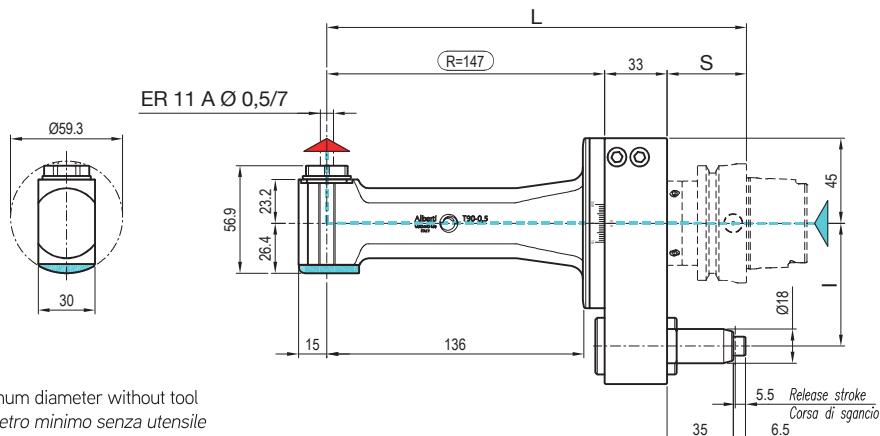
Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

**Option / Opzione**bar max  
12Coolant through pin  
Refrigerante attraverso il pernoØ mm max.  
6Weldon output  
Weldon

# T90cn-0.5L Neo IC

## ACT9005L.IC



### Technical data

Caratteristiche tecniche

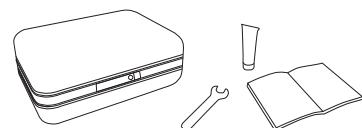
	Ratio Rapporto 1:1
	RPM Velocità 10.000 min <sup>-1</sup> DRY Running 8.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 150 N
	Torque Momento torcente 12 Nm
	Weight Peso 4.4 kg
	Tapping Maschiatura Max. M5
	Collet Pinza ER-11A (Ø 0,5/7 mm)



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

\* STANDARD EQUIPMENT  
includes:



-  Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino
- Dry rotation is possible / rotazione a secco possibile
-  Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
XL	215	215	215	221	222	225
C5-C6				C5-C6	C8	63
				65-80-(110*)	80-(110*)	65-80-(110*)
				38	40	40
				218	220	220

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



Ø mm max.

6

Weldon output  
Weldon

## TR90cn-0.5

## ACTR905C

## Technical data

Caratteristiche tecniche



Ratio

Rapporto  
1:2

RPM

Velocità  
8.000 min<sup>-1</sup>

Max. axial load

Max. carico assiale  
250 N

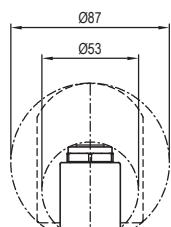
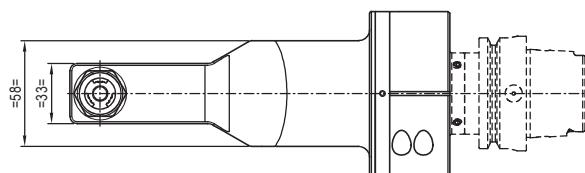
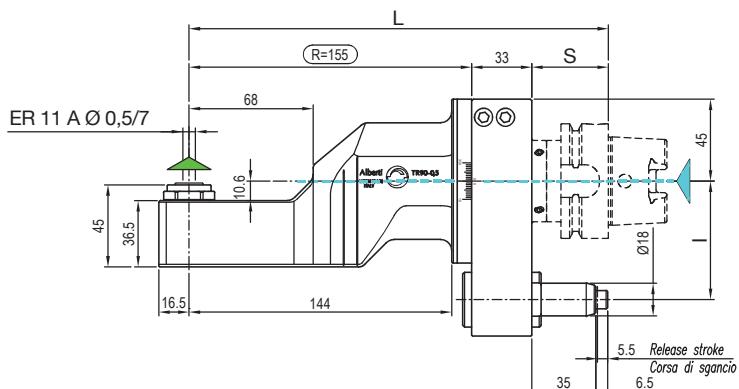
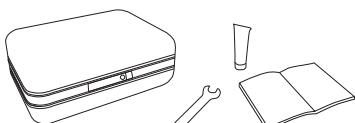
Torque

Momento torcente  
20 Nm

Weight

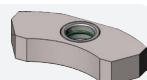
Peso  
6 kg

Collet

Pinza  
ER-AX-11 (ø 0,5/7 mm)Minimum diameter without tool  
Diametro minimo senza utensile\* STANDARD EQUIPMENT  
includes:

Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	38
L	218,875	218,875	218,875	224,875	225,875	228,875

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

## Option / Opzione



bar max

12

Coolant through pin

Adduzione refrigerante attraverso il perno



bar max

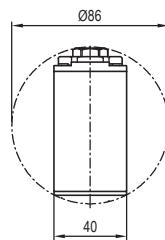
100

Coolant through spindle

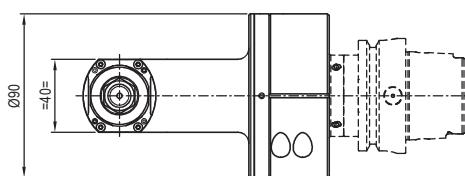
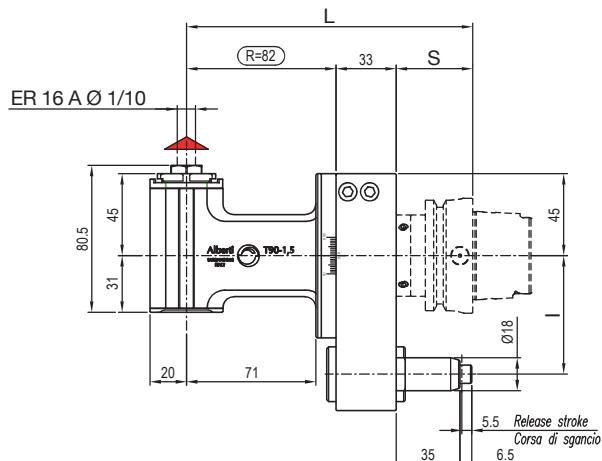
Adduzione refrigerante attraverso il cono

# T90cn-1.5C Neo

## ACT9015C



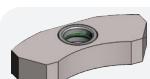
Minimum diameter without tool  
Diametro minimo senza utensile



### Technical data

Caratteristiche tecniche

	Ratio Rapporto <b>1:1</b>
	RPM Velocità <b>8.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>250 N</b>
	Torque Momento torcente <b>25 Nm</b>
	Weight Peso <b>4.3 kg</b>
	Tapping Maschiatura <b>Max. M6</b>
	Collet Pinza <b>ER-16A (Ø 1/10 mm)</b>

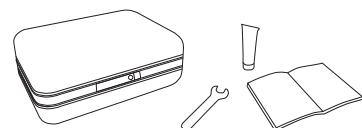


Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

\* STANDARD EQUIPMENT  
includes:

▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino  
Dry rotation is possible / rotazione a secco possibile



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	150	150	150	156	157	160

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
**13**

Arbor output  
Porta fresa



Ø mm max.  
**10**

Weldon output  
Weldon



**ER-16/ER-11**

Double output  
Doppia uscita

# T90cn-1.5C Neo IC

## ACT9015C.IC

### Technical data

Caratteristiche tecniche



Ratio

Rapporto  
1:1

RPM

Velocità  
10.000 min<sup>-1</sup> | DRY  
Running  
8.000 min<sup>-1</sup>

Max. axial load

Max. carico assiale  
250 N

Torque

Momento torcente  
25 Nm

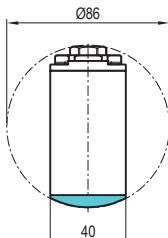
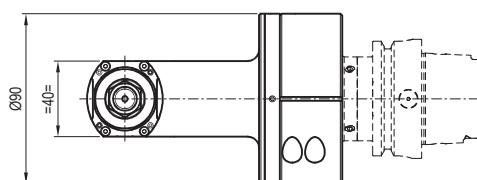
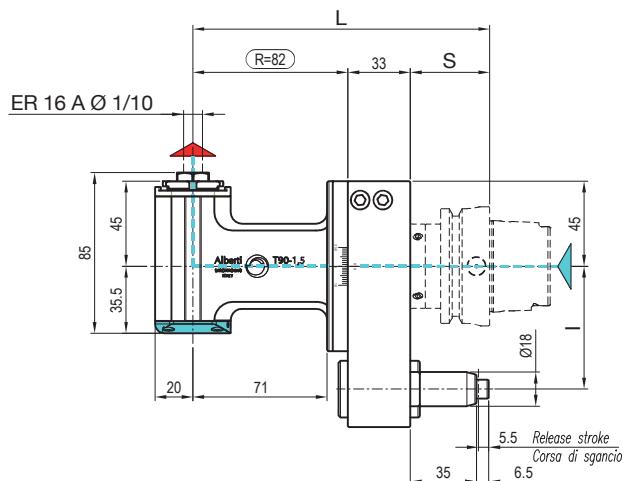
Weight

Peso  
4.3 kg

Tapping

Maschiatura  
Max. M6

Collet

Pinza  
ER-16A ( $\varnothing$  1/10 mm)Minimum diameter without tool  
Diametro minimo senza utensile

### \* STANDARD EQUIPMENT includes:

Retaining block / Tassello di ritegno / Stop-Block

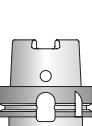
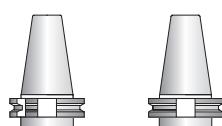
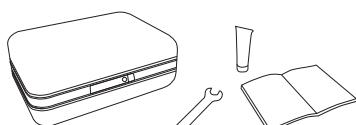


NOT INCLUDED - NON INCLUSO

▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



### Spindle / Cono

### DIN-69871

### CAT

### MAS-BT

### HSK

### CAPTO

### KM

Size / Grandezza	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
I	40	50	40	50	63-80	100
S	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
L	35	35	35	41	42	45
	150	150	150	156	157	160

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



Ø mm

13

Arbor output  
Porta fresa

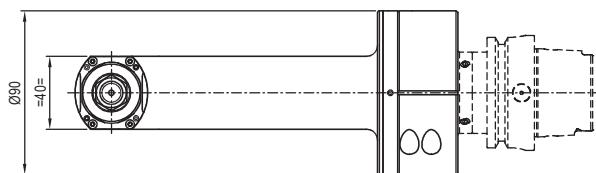
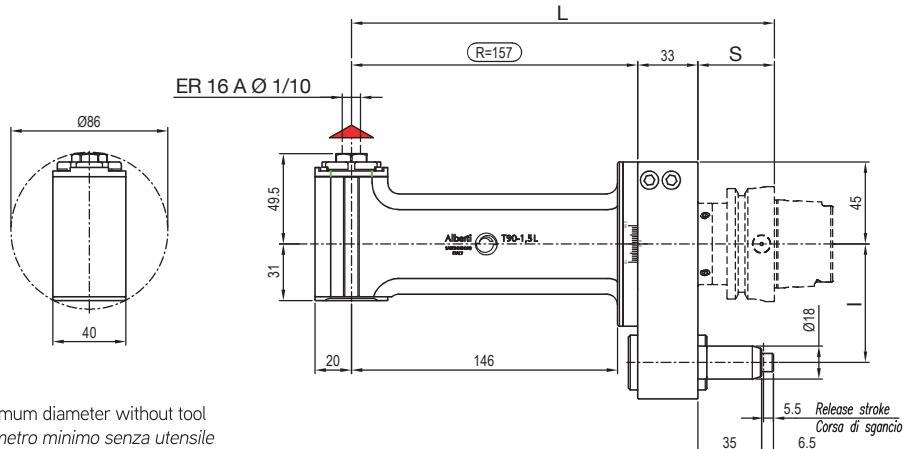
Ø mm max.

10

Weldon output  
Weldon

# T90cn-1.5L Neo

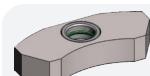
## ACT9015L



### Technical data

Caratteristiche tecniche

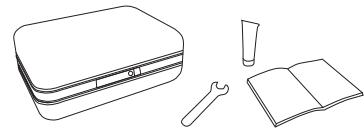
	Ratio Rapporto 1:1
	RPM Velocità 8.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 250 N
	Torque Momento torcente 25 Nm
	Weight Peso 5.2 kg
	Tapping Maschiatura Max. M6
	Collet Pinza ER-16A (Ø 1/10 mm)



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

\* STANDARD EQUIPMENT  
includes:



▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino  
Dry rotation is possible / rotazione a secco possibile

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
XL	225	225	225	231	232	235
Dual contact spindles available/Disponibilità coni a doppio contatto						
*optional						

### Option / Opzione



bar max  
12

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
13

Arbor output  
Porta fresa



Ø mm max.  
10

Weldon output  
Weldon



ER-16/ER-11  
Double output  
Doppia uscita

# T90cn-1.5L Neo IC

## Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
**1:1**



RPM  
Velocità  
**10.000 min<sup>-1</sup>** DRY Running  
**8.000 min<sup>-1</sup>**



Max. axial load  
Max. carico assiale  
**250 N**



Torque  
Momento torcente  
**25 Nm**



Weight  
Peso  
**5.2 kg**

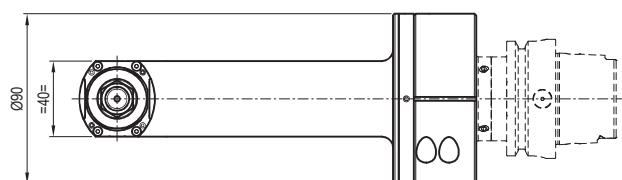
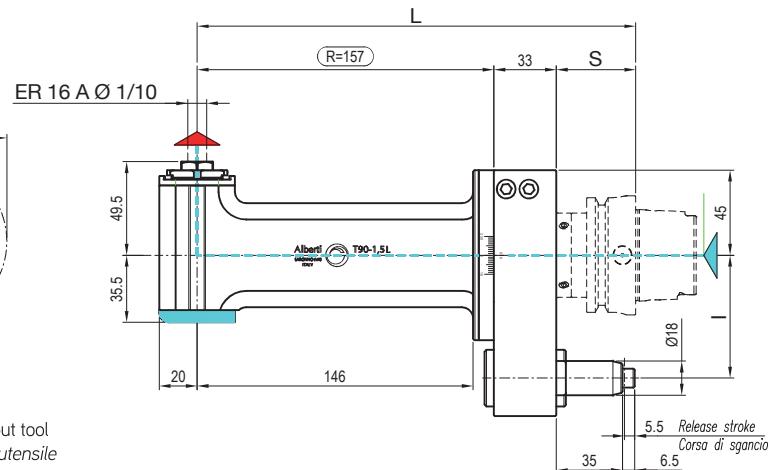


Tapping  
Maschiatura  
**Max. M6**



Collet  
Pinza  
**ER-16A ( $\varnothing 1/10$  mm)**

## ACT9015L.IC



## \* STANDARD EQUIPMENT includes:

Retaining block / Tassello di ritegno / Stop-Block

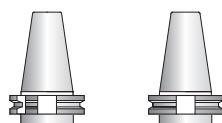
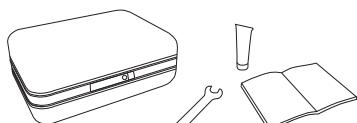


**NOT INCLUDED - NON INCLUSO**

▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
XL	225	225	225	231	232	235

Dual contact spindles available/Disponibilità coni a doppio contatto

\*optional

## Option / Opzione



$\varnothing$  mm

**13**

Arbor output  
Porta fresa



$\varnothing$  mm max.

**10**

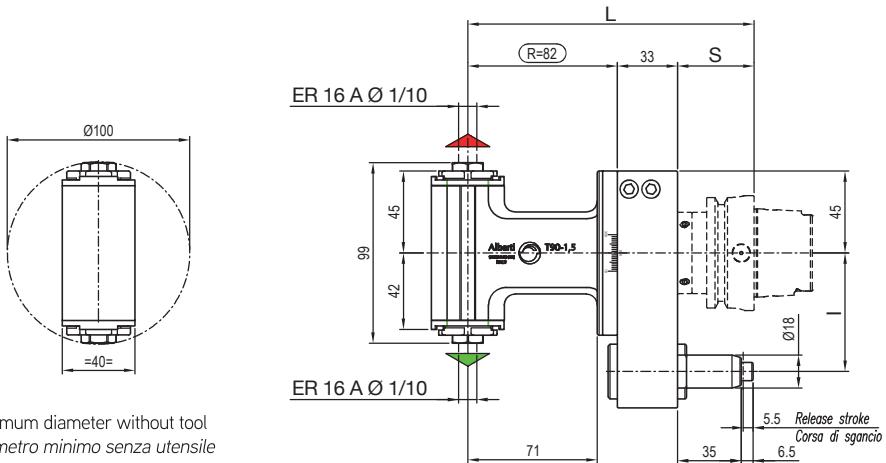
Weldon output  
Weldon

# T90cn-1.5 2U Neo

## ACT9015D

### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
1:1

RPM  
Velocità  
8.000 min<sup>-1</sup>

Max. axial load  
Max. carico assiale  
250 N

Torque  
Momento torcente  
25 Nm

Weight  
Peso  
4.3 kg

Collet  
Pinza  
ER-16A (Ø 1/10 mm)

\* STANDARD EQUIPMENT  
includes:



Retaining block / Tassello di ritegno / Stop-Block

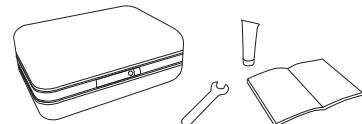
NOT INCLUDED - NON INCLUSO



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	153	153	153	159	160	163

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

### Option / Opzione



bar max

12

Coolant through pin  
Refrigerante attraverso il perno

## TR90cn-1.5

## ACTR915C

## Technical data

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**8.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**350 N**



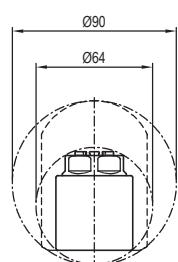
**Torque**  
Momento torcente  
**15 Nm**



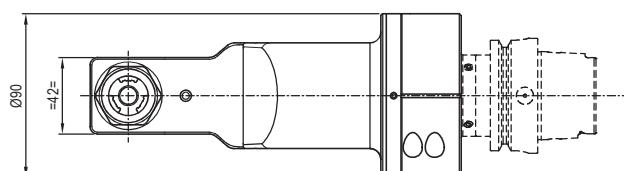
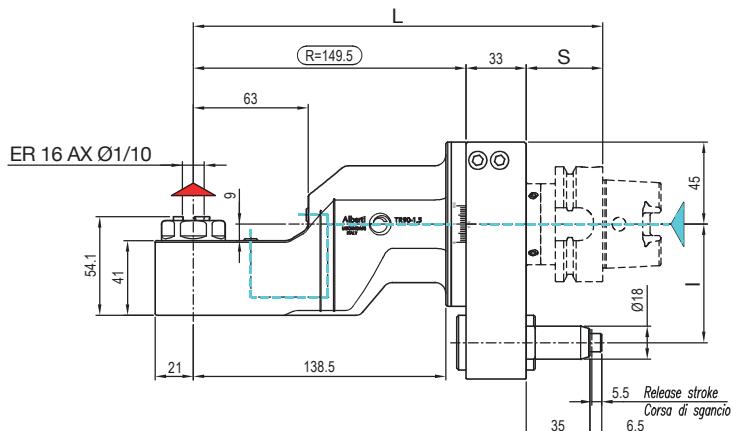
**Weight**  
Peso  
**7 kg**



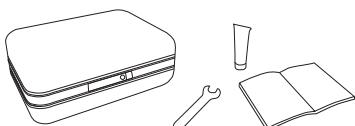
**Collet**  
Pinza  
**ER-AX-16 (ø 1/10 mm)**



Minimum diameter without tool  
Diametro minimo senza utensile

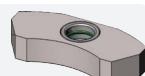


\* **STANDARD EQUIPMENT**  
includes:



Retaining block / Tassello di ritegno / Stop-Block

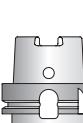
NOT INCLUDED - NON INCLUSO



▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	218,875	218,875	218,875	224,875	225,875	228,875

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

## Option / Opzione



bar max  
**12**

Coolant through pin

Adduzione refrigerante attraverso il perno



bar max  
**100**

Coolant through spindle

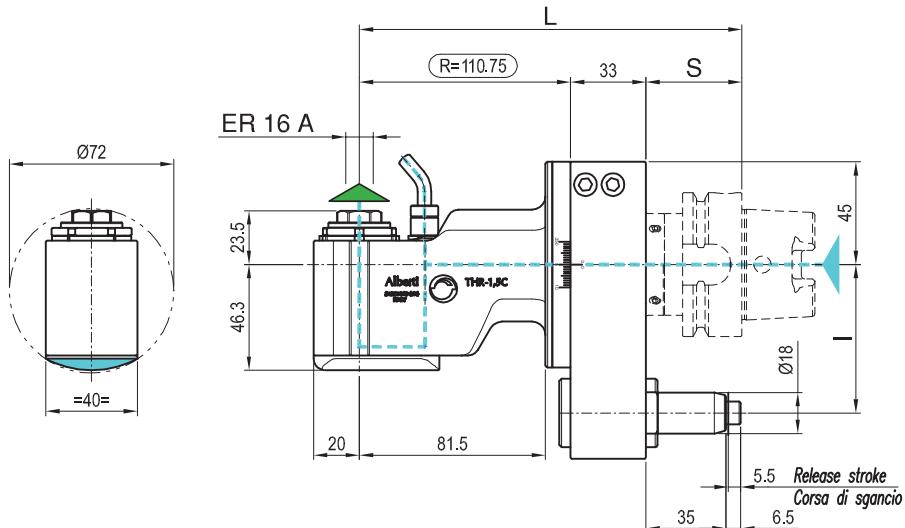
Adduzione refrigerante attraverso il cono

# THRcn-1.5 Neo IC

ACTHR915C.IC

## Technical data

Caratteristiche tecniche



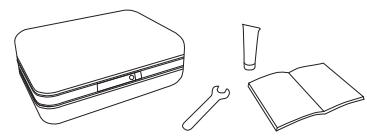
	Ratio Rapporto 1:1
	RPM Velocità <b>10.000 min<sup>-1</sup></b> DRY <b>8.000 min<sup>-1</sup></b> Running
	Max. axial load Max. carico assiale <b>250 N</b>
	Torque Momento torcente <b>20 Nm</b>
	Weight Peso <b>4.2 kg</b>
	Tapping Maschiatura <b>Max. M6</b>
	Collet Pinza <b>ER-16A (Ø 1/10 mm)</b>



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

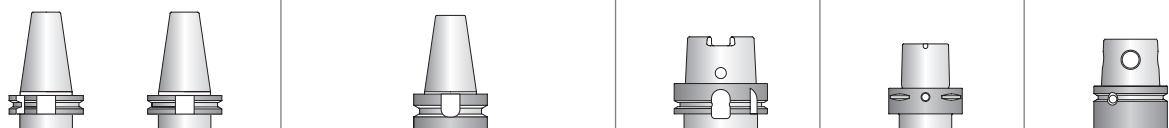
\* STANDARD EQUIPMENT  
includes:



 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

 Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	160,5	160,5	160,5	166,5	167,5	170,5

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Option / Opzione

# TCUcn-1.5 Neo

## Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
1:1



RPM  
Velocità  
 $4.000 \text{ min}^{-1}$



Max. axial load  
Max. carico assiale  
**450 N**



Torque  
Momento torcente  
**15 Nm**



Weight  
Peso  
**4.5 kg**

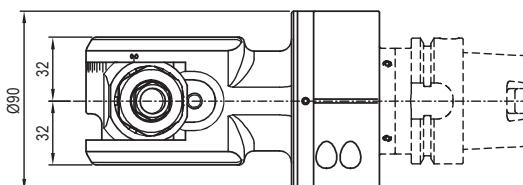
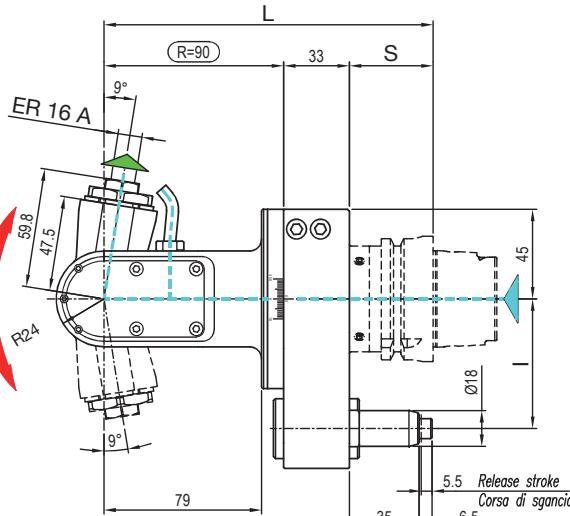
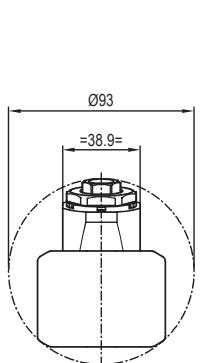


Tapping  
Maschiatura  
Max. M6



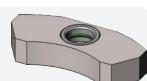
Collet  
Pinza  
**ER-16A ( $\varnothing 1/10 \text{ mm}$ )**

## ACTCU15C



## \* STANDARD EQUIPMENT includes:

Retaining block / Tassello di ritegno / Stop-Block

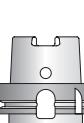
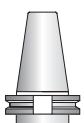
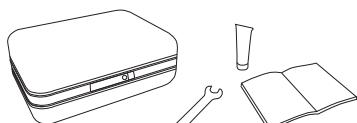


**NOT INCLUDED - NON INCLUSO**

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	150	150	150	156	157	160

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

## Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



bar max  
**100**

Coolant through spindle  
Adduzione refrigerante attraverso il cono



min<sup>-1</sup>  
**8.000**

RPM max.  
RPM max.



+/- 95°

Angle  
Angolo



every  
**5°**

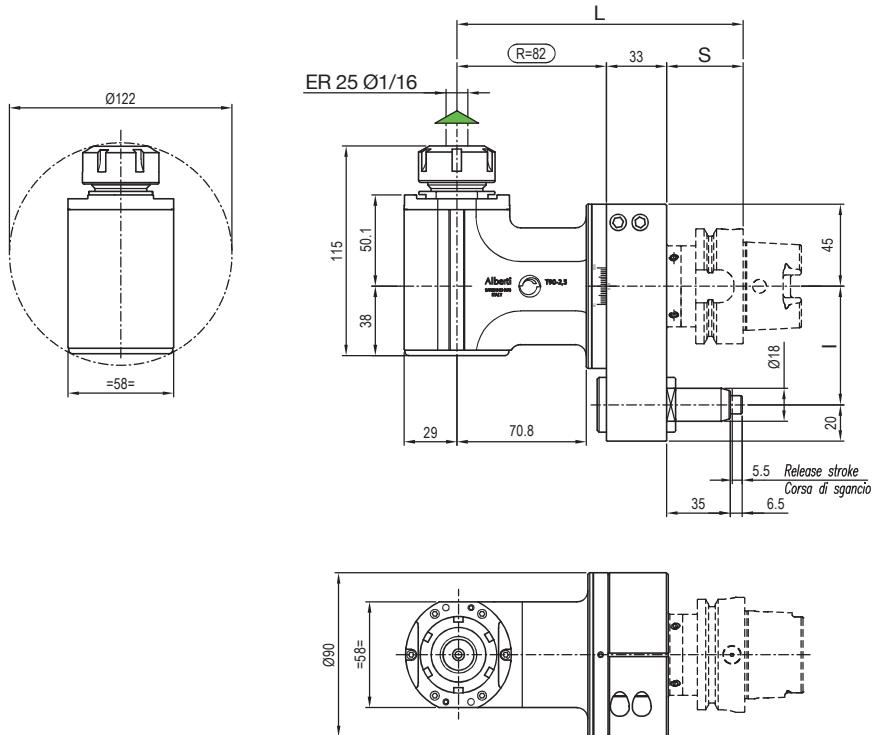
Fixed positioning  
Posizionamento fisso

# T90cn-2.5C Neo

## ACT9025C

### Technical data

Caratteristiche tecniche



 Ratio  
Rapporto  
**1:1**

 RPM  
Velocità  
**6.000 min<sup>-1</sup>**

 Max. axial load  
Max. carico assiale  
**510 N**

 Torque  
Momento torcente  
**50 Nm**

 Weight  
Peso  
**5.4 kg**

 Tapping  
Maschiatura  
**Max. M12**

 Collet  
Pinza  
**ER-25 (Ø 1/16 mm)**

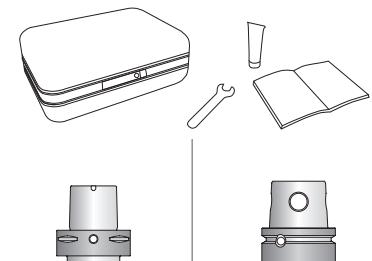


Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**

\* STANDARD EQUIPMENT  
includes:

 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	150	150	150	156	157	160

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
**16**

Arbor output  
Porta fresa



Ø mm max.  
**16**

Weldon output  
Weldon



**HSK-32**

Quick Change  
Attacco rapido



**ER 25/ER 16**

Double output  
Doppia uscita

# T90cn-2.5C Neo IC

## ACT9025C.IC

### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
**1:1**



RPM  
Velocità  
**9.000 min<sup>-1</sup>** DRY  
Running  
**6.000 min<sup>-1</sup>**



Max. axial load  
Max. carico assiale  
**510 N**



Torque  
Momento torcente  
**50 Nm**



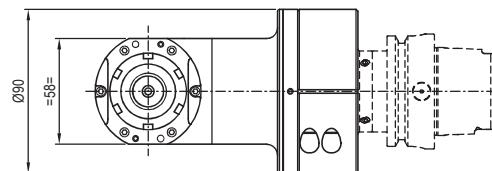
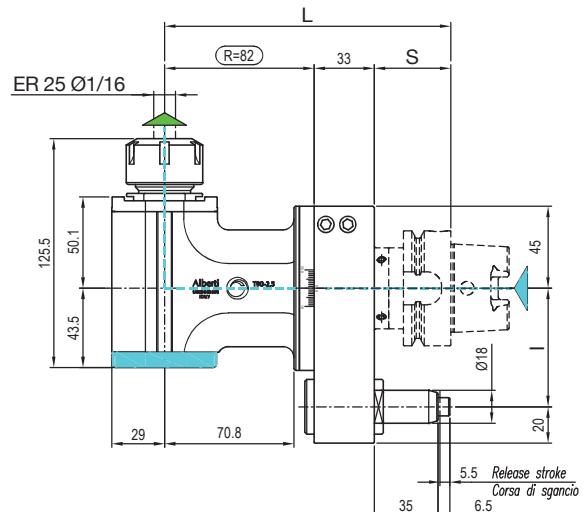
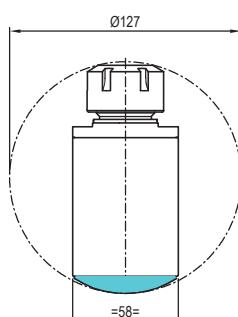
Weight  
Peso  
**5.4 kg**



Tapping  
Maschiatura  
**Max. M12**



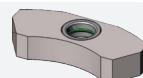
Collet  
Pinza  
**ER-25 (ø 1/16 mm)**



### \* STANDARD EQUIPMENT includes:

Retaining block / Tassello di ritegno / Stop-Block

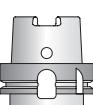
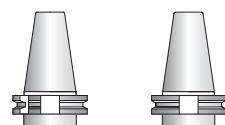
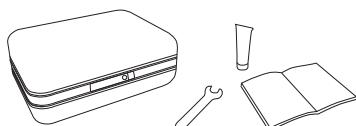
**NOT INCLUDED - NON INCLUSO**



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



KM

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	38
L	150	150	150	156	157	160

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



Ø mm

**16**

Arbor output  
Porta fresa



Ø mm max.

**16**

Weldon output  
Weldon

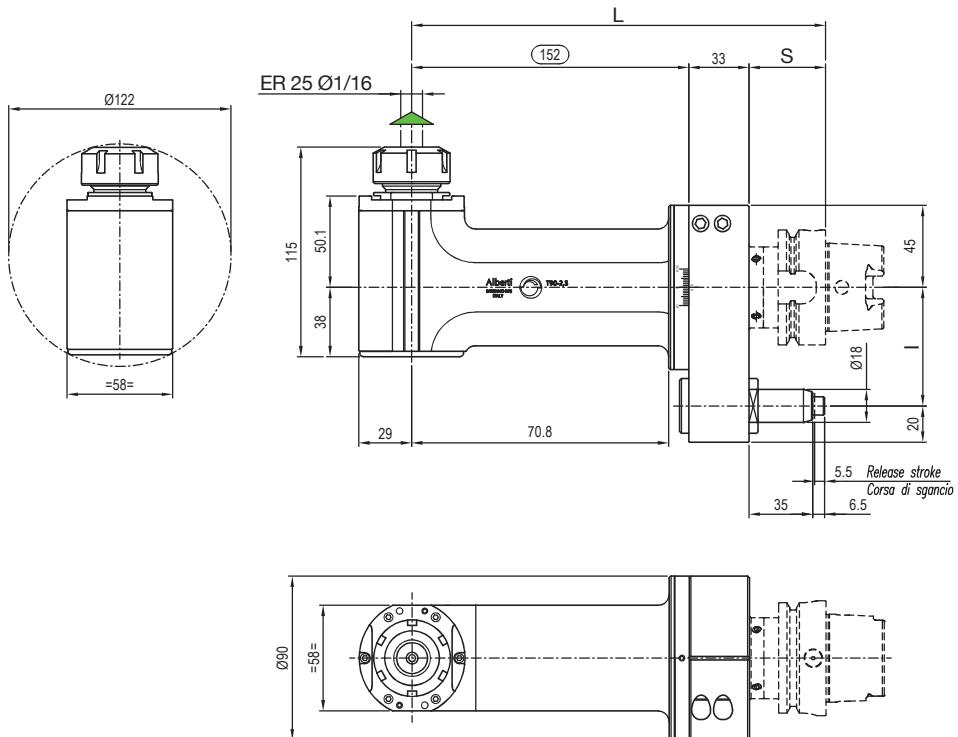


**HSK-32**

Quick Change  
Attacco rapido

# T90cn-2.5L Neo

## ACT9025L



### Technical data

Caratteristiche tecniche

	Ratio Rapporto <b>1:1</b>
	RPM Velocità <b>6.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>510 N</b>
	Torque Momento torcente <b>50 Nm</b>
	Weight Peso <b>6.7 kg</b>
	Tapping Maschiatura <b>Max. M12</b>
	Collet Pinza <b>ER-25 (Ø 1/16 mm)</b>

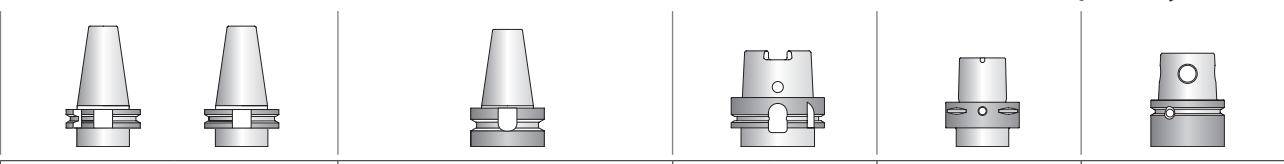
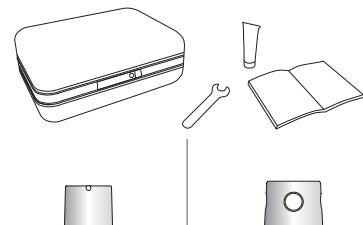


Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

\* STANDARD EQUIPMENT  
includes:

 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
XL	220	220	220	226	227	230
				223	223	225
				225		

Dual contact spindles available/Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
**16**

Arbor output  
Porta fresa



Ø mm max.  
**16**

Weldon output  
Weldon



HSK-32

Quick Change  
Attacco rapido



ER 25/ER 16

Double output  
Doppia uscita

# T90cn-2.5L Neo IC

## ACT9025L.IC

### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
**1:1**



RPM  
Velocità  
**9.000 min<sup>-1</sup>** DRY  
Running  
**6.000 min<sup>-1</sup>**



Max. axial load  
Max. carico assiale  
**510 N**



Torque  
Momento torcente  
**50 Nm**



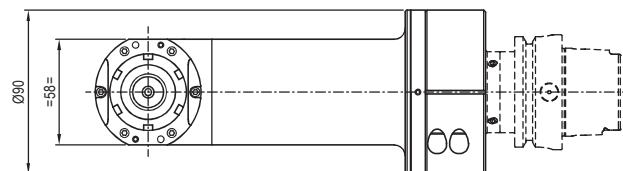
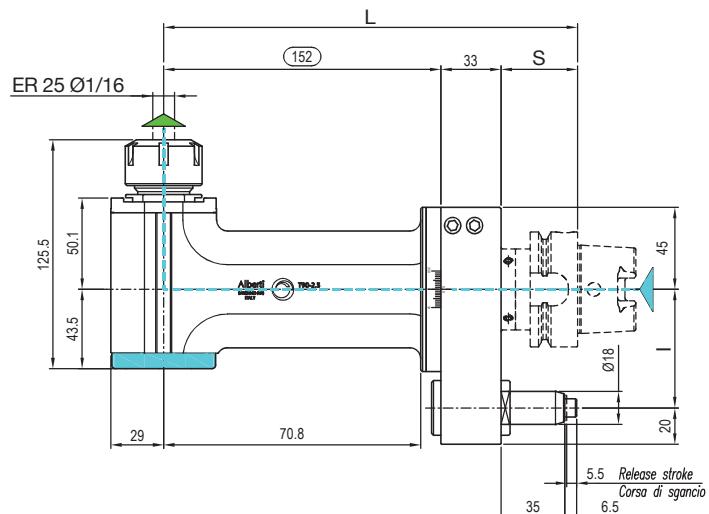
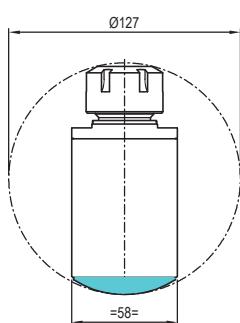
Weight  
Peso  
**6.7 kg**



Tapping  
Maschiatura  
**Max. M12**

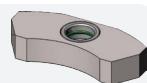


Collet  
Pinza  
**ER-25 (Ø 1/16 mm)**



### \* STANDARD EQUIPMENT includes:

Retaining block / Tassello di ritegno / Stop-Block

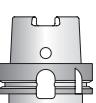
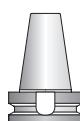
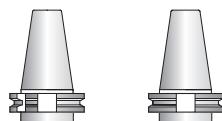
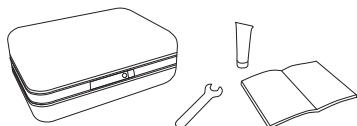


**NOT INCLUDED - NON INCLUSO**

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



KM

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
XL	220	220	220	226	227	230
Dual contact spindles available/Disponibilità coni a doppio contatto						
*optional						

### Option / Opzione



Ø mm  
**16**

Arbor output  
Porta fresa



Ø mm max.  
**16**

Weldon output  
Weldon

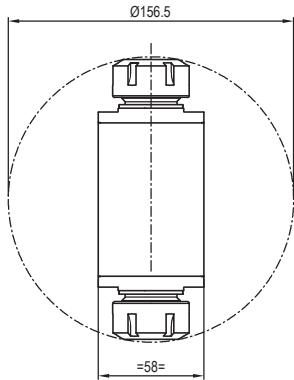


HSK-32

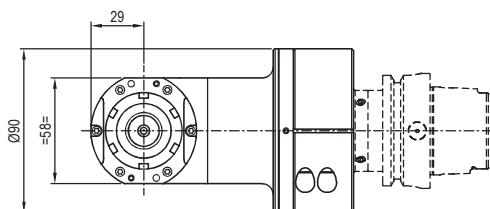
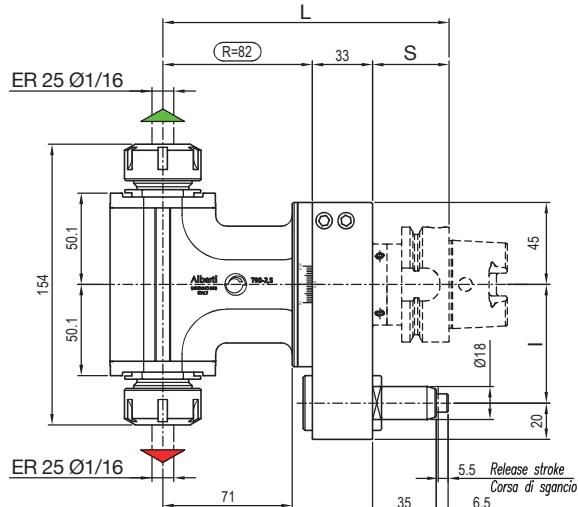
Quick Change  
Attacco rapido

# T90cn-2.5 2U Neo

## ACT9025D



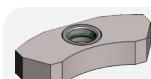
Minimum diameter without tool  
Diametro minimo senza utensile



### Technical data

Caratteristiche tecniche

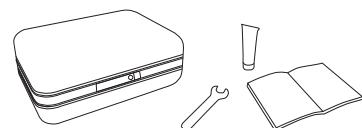
	Ratio Rapporto 1:1
	RPM Velocità 6.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 510 N
	Torque Momento torcente 50 Nm
	Weight Peso 6.4 kg
	Collet Pinza ER-25 (Ø 1/16 mm)



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

\* STANDARD EQUIPMENT  
includes:



 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
 Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino

Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	150	150	150	156	157	160

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

### Option / Opzione



bar max  
12

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
16

Arbor output  
Porta fresa



Ø mm max.  
16

Weldon output  
Weldon

# TR90cn-2.5

## ACTR925C

### Technical data

Caratteristiche tecniche



Ratio

Rapporto  
1:1



RPM OUTPUT

Velocità  
6.000 min<sup>-1</sup>



Max. axial load

Max. carico assiale  
510 N



Torque

Momento torcente  
30 Nm



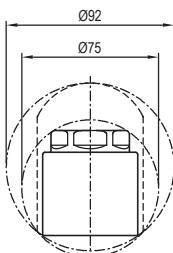
Weight

Peso  
7.5 kg

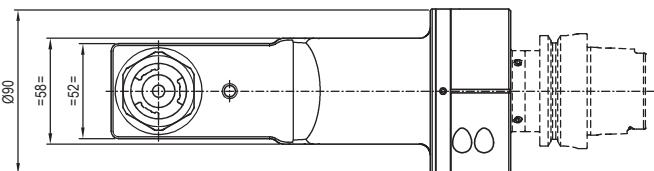
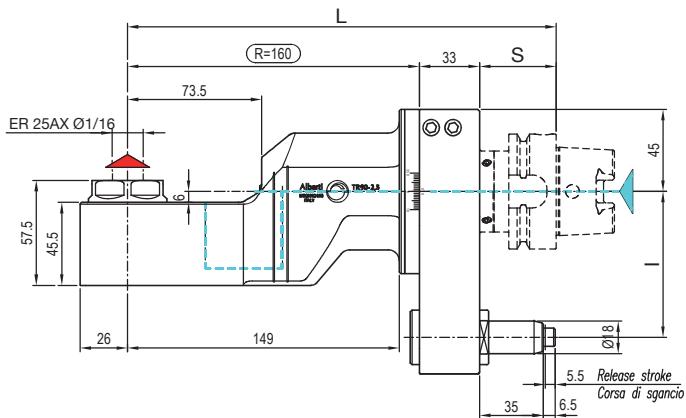


Collet

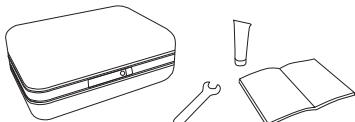
Pinza  
ER-AX 25 (ø 1-16 mm)



Minimum diameter without tool  
Diametro minimo senza utensile

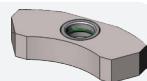


### \* STANDARD EQUIPMENT includes:



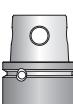
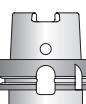
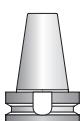
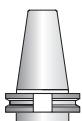
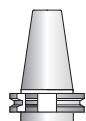
Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**



▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino  
Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	219	219	219	225	226	229

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

*Non interchangeable input drive shank / Coni di attacco non intercambiabili*

### Option / Opzione



bar max  
12

Coolant through pin

Adduzione refrigerante attraverso il perno



bar max  
100

Coolant through spindle

Refrigerante attraverso il cono



min<sup>-1</sup>  
8.000

RPM max.

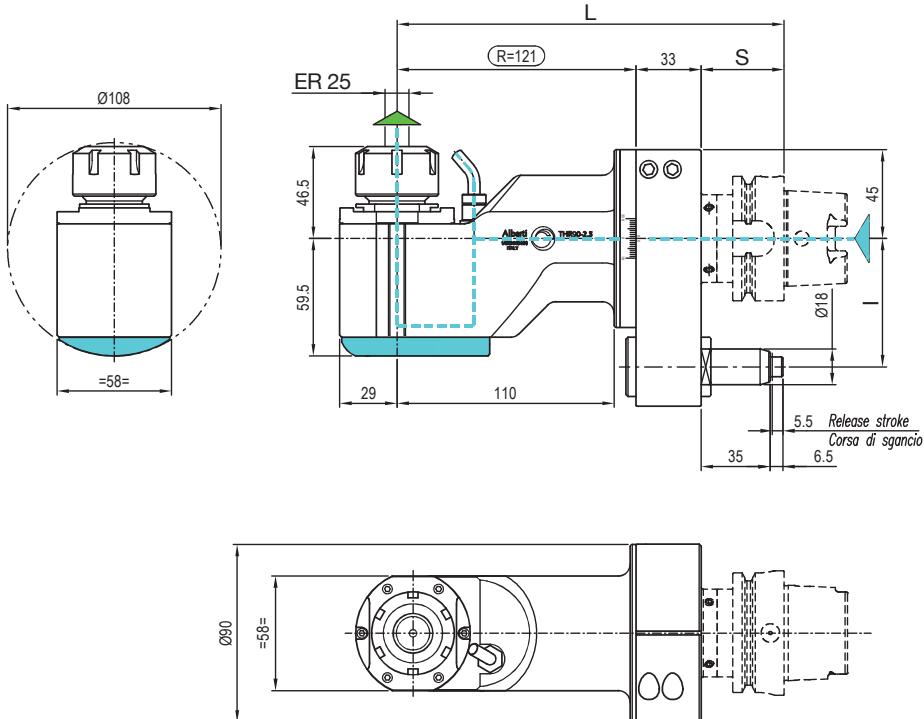
RPM max.

# THRcn-2.5 Neo IC

## ACTHR925.IC

### Technical data

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**

**RPM**  
Velocità  
**9.000 min<sup>-1</sup>** | **DRY**  
Running **6.000 min<sup>-1</sup>**

**Max. axial load**  
Max. carico assiale  
**510 N**

**Torque**  
Momento torcente  
**40 Nm**

**Weight**  
Peso  
**6.5 kg**

**Tapping**  
Maschiatura  
**Max. M12**

**Collet**  
Pinza  
**ER-25 (Ø 1/16 mm)**

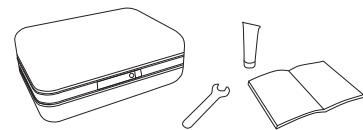


Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**

\* STANDARD EQUIPMENT  
includes:

- ▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino
- ▲ Dry rotation is possible / rotazione a secco possibile
- ▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	189	189	189	195	196	199

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione

# TCUcn-2.5 Neo

## Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
**1:1**



RPM  
Velocità  
**4.000 min<sup>-1</sup>**



Max. axial load  
Max. carico assiale  
**510 N**



Torque  
Momento torcente  
**30 Nm**



Weight  
Peso  
**7 kg**

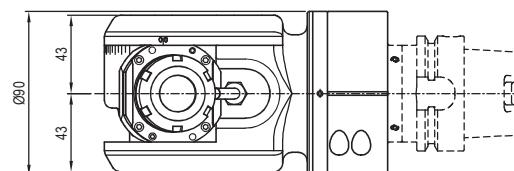
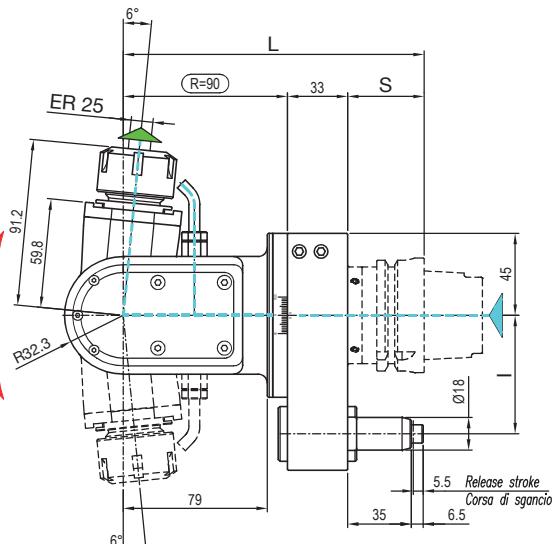
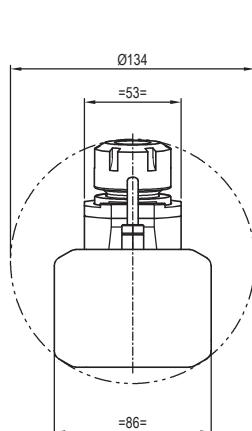


Tapping  
Maschiatura  
**Max. M12**



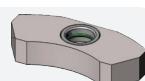
Collet  
Pinza  
**ER-25 (ø 1/16 mm)**

## ACTCU25C

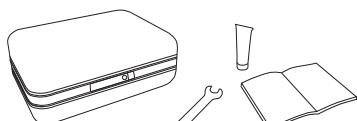


## \* STANDARD EQUIPMENT includes:

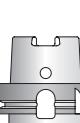
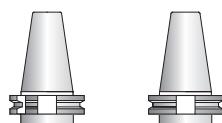
Retaining block / Tassello di ritegno / Stop-Block



**NOT INCLUDED - NON INCLUSO**



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)	65-80-(110*)	80-(110*)
S	35	35	35	41	42	45
L	158	158	158	164	165	168

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

## Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



bar max  
**100**

Coolant through spindle  
Adduzione refrigerante attraverso  
il cono



min<sup>-1</sup>  
**6.000**

RPM max.  
RPM max.



+/- 95°

Angle  
Angolo

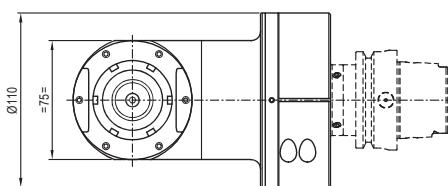
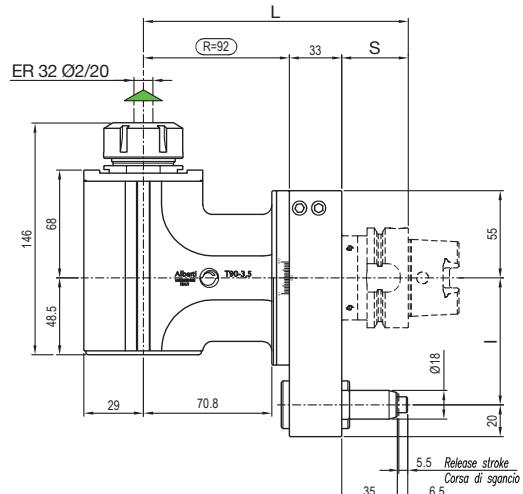
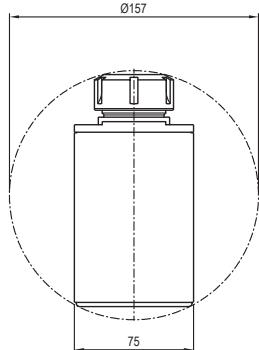


every  
**5°**

Fixed positioning  
Posizionamento fisso

# T90cn-3.5C Neo

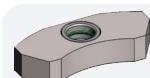
## ACT9035C



### Technical data

Caratteristiche tecniche

	Ratio Rapporto <b>1:1</b>
	RPM Velocità <b>5.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>1.250 N</b>
	Torque Momento torcente <b>70 Nm</b>
	Weight Peso <b>11 kg</b>
	Tapping Maschiatura <b>Max. M16</b>
	Collet Pinza <b>ER-32 (Ø 2/20 mm)</b>

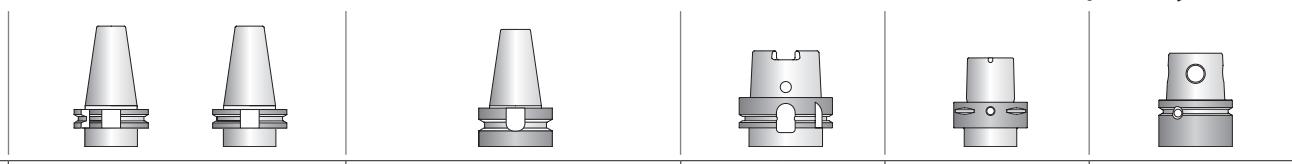
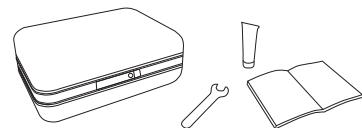


Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**

\* STANDARD EQUIPMENT  
includes:

Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	50	63-80	63-80	100	C6	C8
I	80-110	80-110	80-110	80-110	80-110	80-110
S	35	41	42	45	38	40
L	160	166	167	170	163	165

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
**27**

Arbor output  
Porta fresa



Ø mm max.  
**20**

Weldon output  
Weldon



ISO-30 HSK-40

Quick Change  
Attacco rapido



ER 32/ER 20

Double output  
Doppia uscita

# T90cn-3.5C Neo IC

## ACT9035C.IC

**Technical data**

Caratteristiche tecniche



Ratio

Rapporto

1:1



RPM

Velocità

9.000 min<sup>-1</sup>

DRY

Running

5.000 min<sup>-1</sup>

Max. axial load

Max. carico assiale

1.250 N



Torque

Momento torcente

70 Nm



Weight

Peso

11 kg



Tapping

Maschiatura

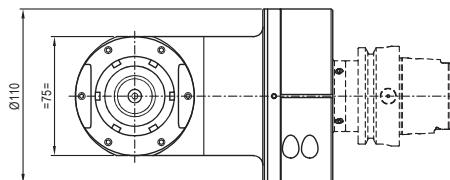
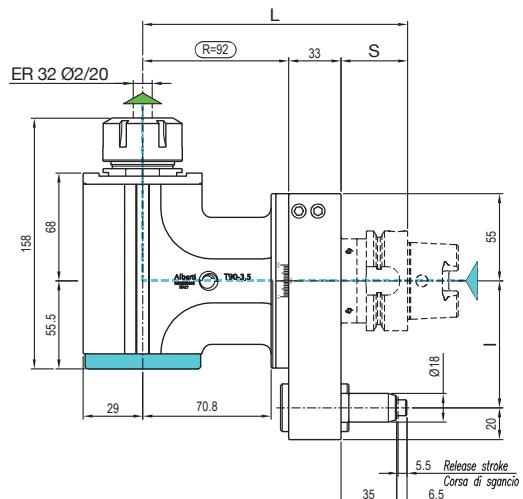
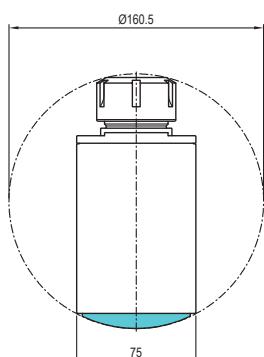
Max. M16



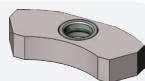
Collet

Pinza

ER-32 (ø 2/20 mm)

**\* STANDARD EQUIPMENT includes:**

Retaining block / Tassello di ritegno / Stop-Block

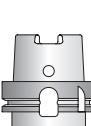
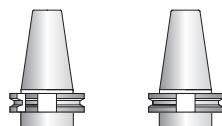
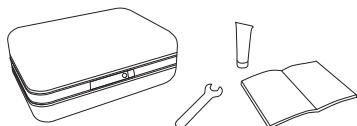


NOT INCLUDED - NON INCLUSO

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK		CAPTO		KM
Size / Grandezza	50		63-80	63-80	100	C6	C8	63
I	80-110		80-110	80-110	80-110	80-110	80-110	80-110
S	35		41	42	45	38	40	40
L	160		166	167	170	163	165	165

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

**Option / Opzione**

Ø mm

27

Arbor output  
Porta fresa

Ø mm max.

20

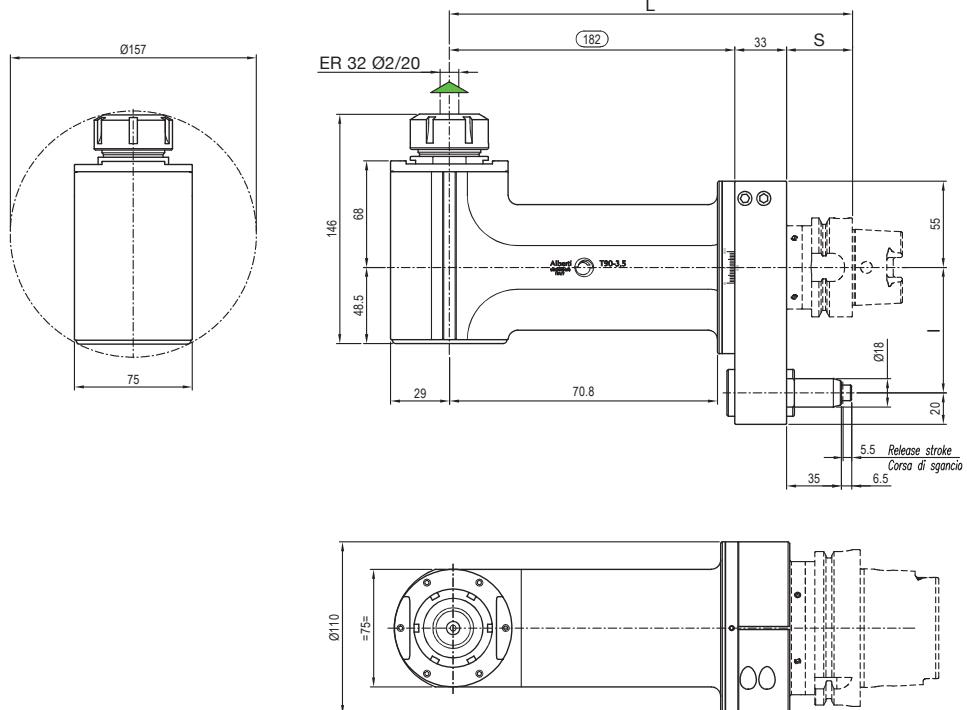
Weldon output  
Weldon

ISO-30 HSK-40

Quick Change  
Attacco rapido

# T90cn-3.5L Neo

## ACT9035L



### Technical data

Caratteristiche tecniche

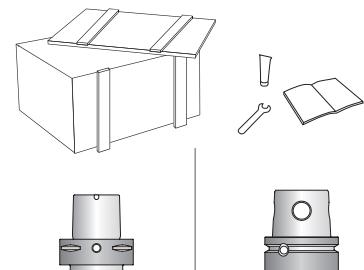
	Ratio Rapporto <b>1:1</b>
	RPM Velocità <b>5.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>1.250 N</b>
	Torque Momento torcente <b>70 Nm</b>
	Weight Peso <b>13.2 kg</b>
	Tapping Maschiatura <b>Max. M16</b>
	Collet Pinza <b>ER-32 (Ø 2/20 mm)</b>



Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**

\* STANDARD EQUIPMENT  
includes:



 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	50	63-80	63-80	100	C6	C8
I	80-110	80-110	80-110	80-110	80-110	80-110
S	35	41	42	45	38	40
XL	250	256	257	260	253	255

Dual contact spindles available/Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
**27**

Arbor output  
Porta fresa



Ø mm max.  
**20**

Weldon output  
Weldon



ISO-30 HSK-40

Quick Change  
Attacco rapido



ER 32/ER 20

Double output  
Doppia uscita

# T90cn-3.5L Neo IC

## ACT9035L.IC

### Technical data

Caratteristiche tecniche



Ratio

Rapporto  
1:1



RPM

Velocità  
8.000 min<sup>-1</sup>

DRY

Running  
5.000 min<sup>-1</sup>



Max. axial load

Max. carico assiale  
1.250 N



Torque

Momento torcente  
70 Nm



Weight

Peso  
13.2 kg



Tapping

Maschiatura

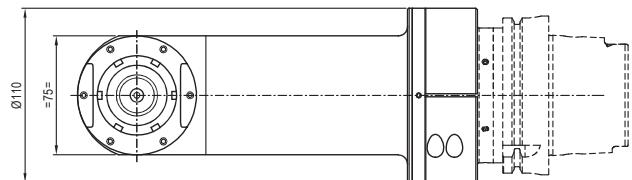
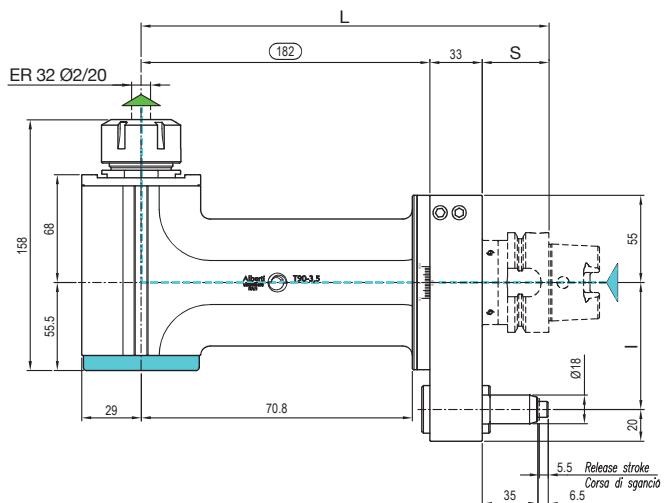
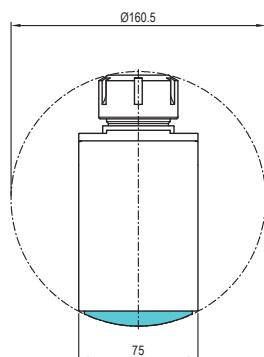
Max. M16



Collet

Pinza

ER-32 (ø 2/20 mm)



### \* STANDARD EQUIPMENT includes:

Retaining block / Tassello di ritegno / Stop-Block

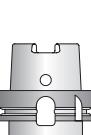
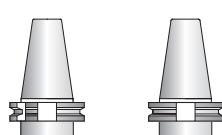
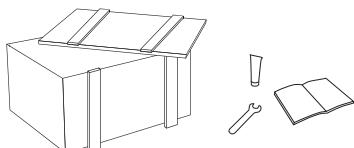


**NOT INCLUDED - NON INCLUSO**

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



KM

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK		CAPTO	KM
Size / Grandezza	50		63-80	63-80	100	C6	C8
I	80-110		80-110	80-110	80-110	80-110	80-110
S	35		41	42	45	38	40
XL	250		256	257	260	253	255

Dual contact spindles available/Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



Ø mm

27

Arbor output  
Porta fresa



Ø mm max.

20

Weldon output  
Weldon

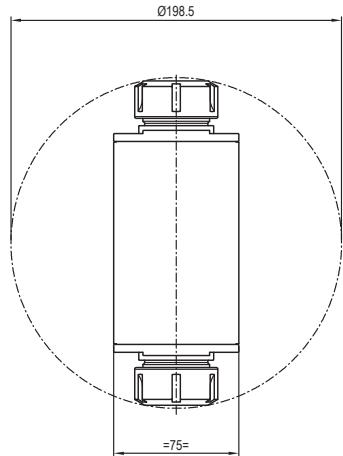


ISO-30 HSK-40

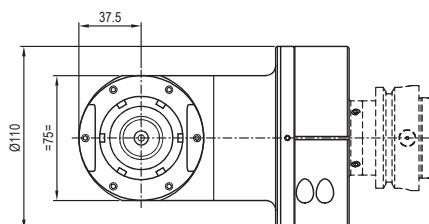
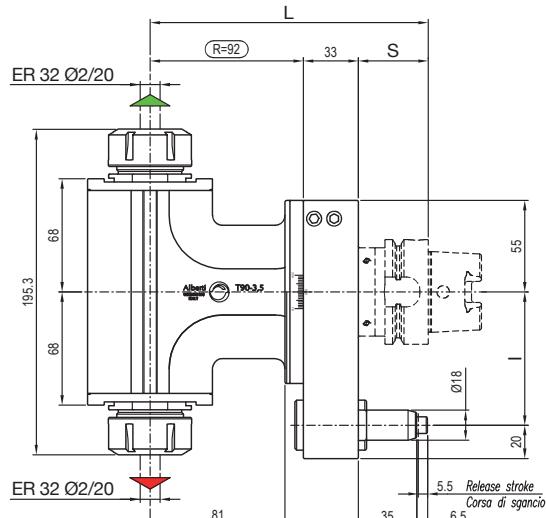
Quick Change  
Attacco rapido

# T90cn-3.5 2U Neo

## ACT9035D



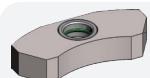
Minimum diameter without tool  
Diametro minimo senza utensile



### Technical data Caratteristiche tecniche

	Ratio Rapporto 1:1
	RPM Velocità 4.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 1.250 N
	Torque Momento torcente 70 Nm
	Weight Peso 12 kg
	Collet Pinza ER-32 (Ø 2/20 mm)

\* STANDARD EQUIPMENT  
includes:



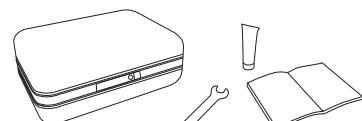
Retaining block / Tassello di ritegno / Stop-Block  
NOT INCLUDED - NON INCLUSO



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	50	50		63-80	100	C6
I	80-110	80-110		80-110	80-110	C8
S	35	41		42	45	80-110
L	160	166		167	170	80-110

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

### Option / Opzione



bar max  
12

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
27

Arbor output  
Porta fresa



Ø mm max.  
20

Weldon output  
Weldon



HSK-40

Quick Change  
Attacco rapido

# TR90cn-3.5

## ACTR935C

### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
**1:1**



RPM  
Velocità  
**4.000 min<sup>-1</sup>**



Max. axial load  
Max. carico assiale  
**910 N**



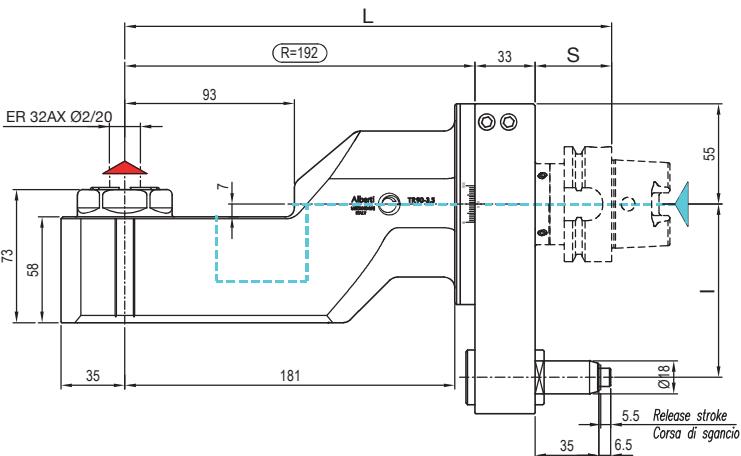
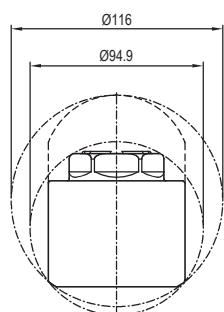
Torque  
Momento torcente  
**50 Nm**



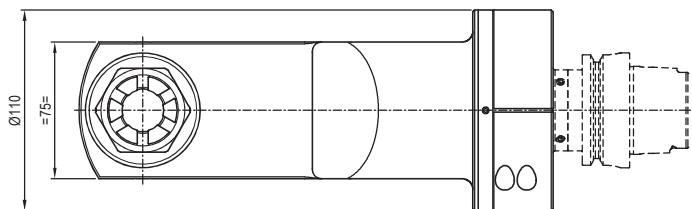
Weight  
Peso  
**10 kg**



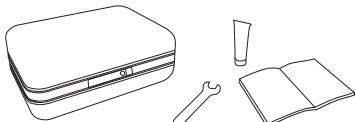
Collet  
Pinza  
**ER-AX 32 (ø 2-20 mm)**



Minimum diameter without tool  
Diametro minimo senza utensile

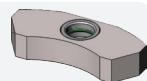


### \* STANDARD EQUIPMENT includes:



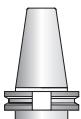
Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**



▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino  
Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	50	50		63-80	100	C6
I	80-110	80-110		80-110	80-110	C8
S	35	41		42	45	80-110
L	261	267		268	271	80-110

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

**Non interchangeable input drive shank / Coni di attacco non intercambiabili**

### Option / Opzione



bar max  
**100**

Coolant through spindle  
Refrigerante attraverso il cono

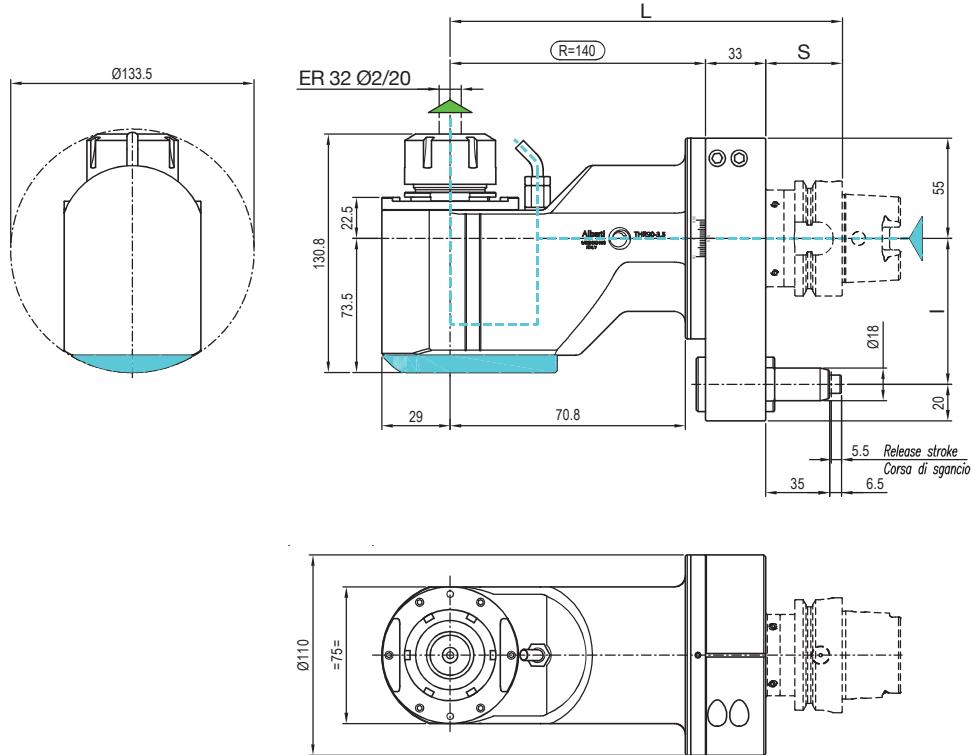


min<sup>-1</sup>  
**6.000**

RPM max.  
RPM max.

# THRcn-3.5 Neo IC

## ACTHR935C.IC



### Technical data

Caratteristiche tecniche

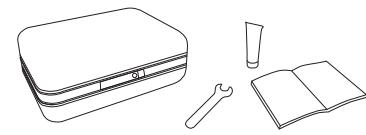
	Ratio Rapporto <b>1:1</b>
	RPM Velocità <b>8.000 min<sup>-1</sup></b> DRY Running <b>5.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>1250 N</b>
	Torque Momento torcente <b>70 Nm</b>
	Weight Peso <b>11.5 kg</b>
	Tapping Maschiatura <b>Max. M16</b>
	Collet Pinza <b>ER-32 (Ø 2/20 mm)</b>



Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**

\* STANDARD EQUIPMENT  
includes:



-  Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino
- Dry rotation is possible / rotazione a secco possibile
-  Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	50	50		63-80	100	C6
I	80-110	80-110		80-110	80-110	80-110
S	35	41		42	45	38
L	208	214		215	218	211

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione

# TCUcn-3.5 Neo

## ACTCU35C

### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
**1:1**



RPM  
Velocità  
**4.000 min<sup>-1</sup>**



Max. axial load  
Max. carico assiale  
**715 N**



Torque  
Momento torcente  
**50 Nm**



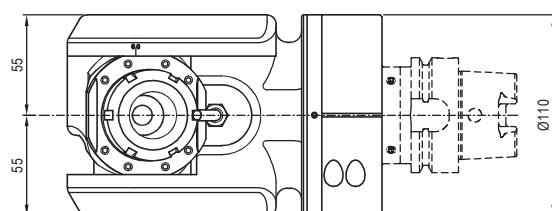
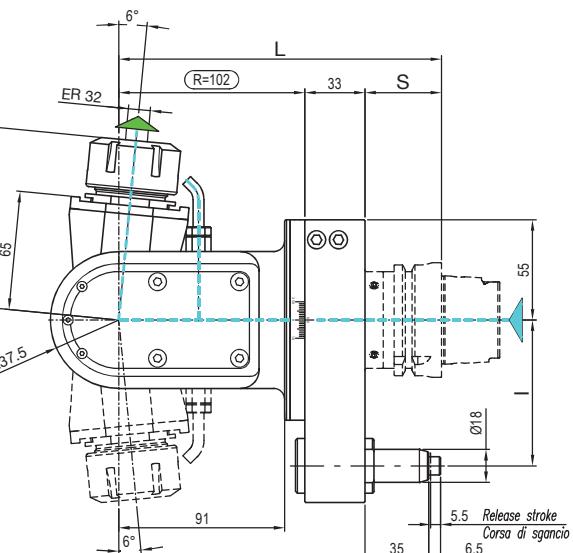
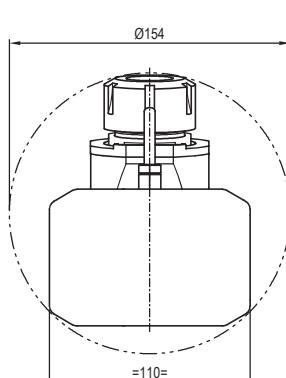
Weight  
Peso  
**13 kg**



Tapping  
Maschiatura  
**Max. M16**

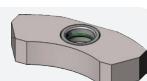


Collet  
Pinza  
**ER-32 (ø 2/20 mm)**



### \* STANDARD EQUIPMENT includes:

Retaining block / Tassello di ritegno / Stop-Block

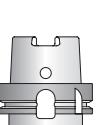
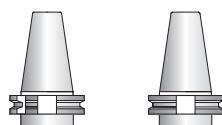
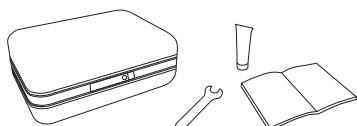


**NOT INCLUDED - NON INCLUSO**

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



KM

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK		CAPTO		KM
Size / Grandezza	50		50	63-80	100	C6	C8	63
I	80-110		80-110	80-110	80-110	80-110	80-110	80-110
S	35		41	42	45	38	40	40
L	170		176	177	180	173	175	175

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max  
**12**

Coolant through pin  
Refrigerante attraverso il perno



bar max  
**100**

Coolant through spindle  
Adduzione refrigerante attraverso il cono



min<sup>-1</sup>  
**6.000**

RPM max.  
RPM max.



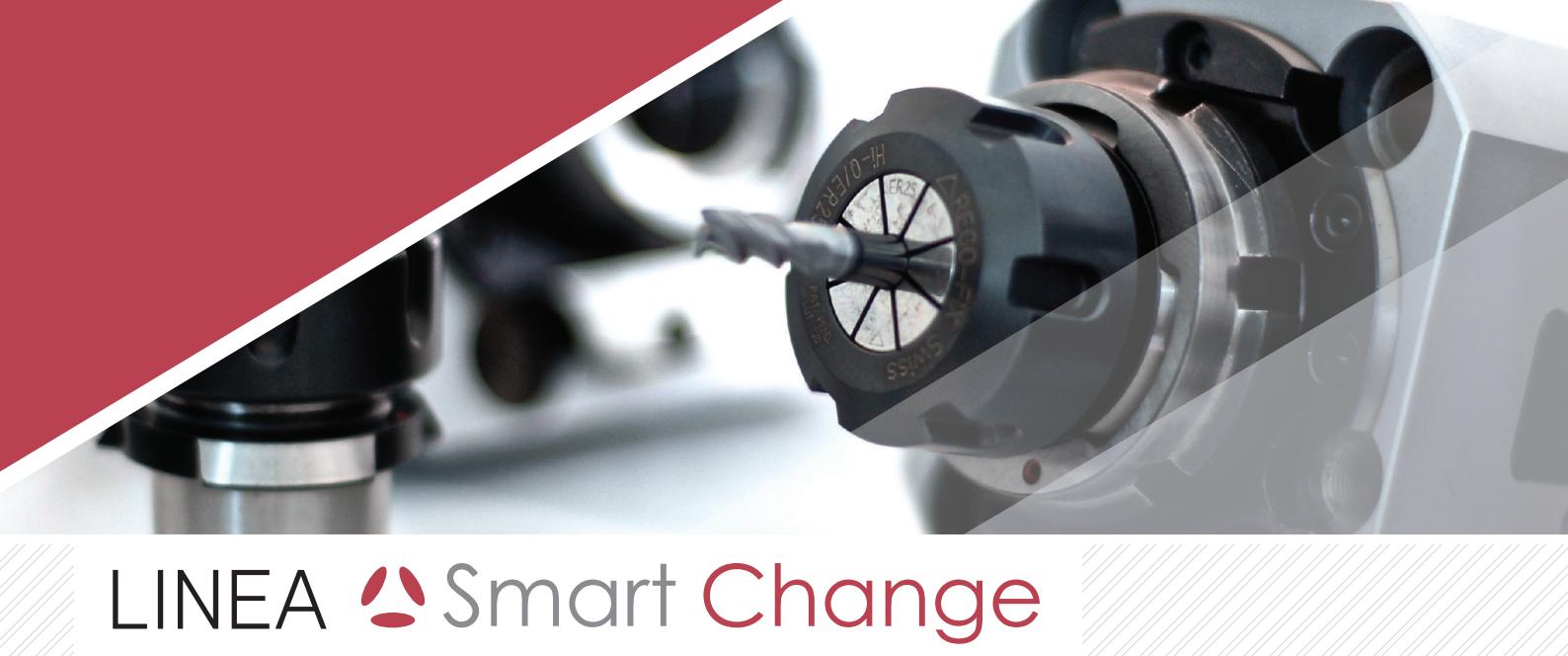
+/- 95°

Angle  
Angolo



every  
**5°**

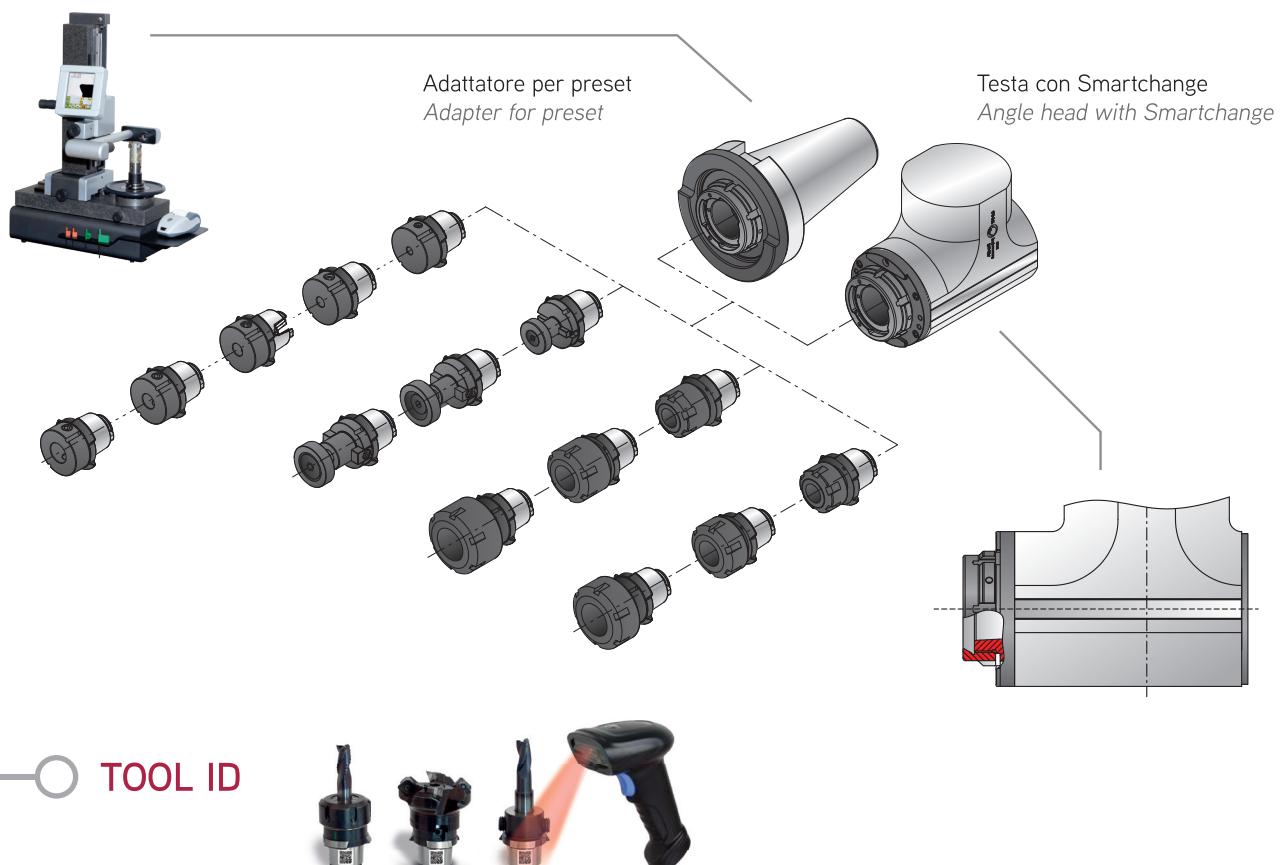
Fixed positioning  
Posizionamento fisso



## LINEA Smart Change

Smart Change è un sistema facile e innovativo, compatto nel design e veloce da utilizzare, che, grazie ad un triplo contatto, riesce a garantire una maggior rigidità e permette una miglior precisione durante la lavorazione. La modularità del sistema dà quindi la possibilità all'utilizzatore di poter usufruire di un'**ampia gamma** di adattori di diversa dimensione che possono essere presettati fuori macchina in tempo mascherato, aumentando così la **produttività e diminuendo tempi e costi di attrezzamento macchina**.

Smart Change is an easy and innovative system, compact in design and quick to use, which, thanks to a triple contact, manages to ensure greater rigidity and allows better precision during the processing. The modularity of the system therefore gives the user the possibility to take advantage of a wide range of different size adapters that can be pre-set off the machine in masked time, thus increasing productivity and decreasing tooling times and costs machine.



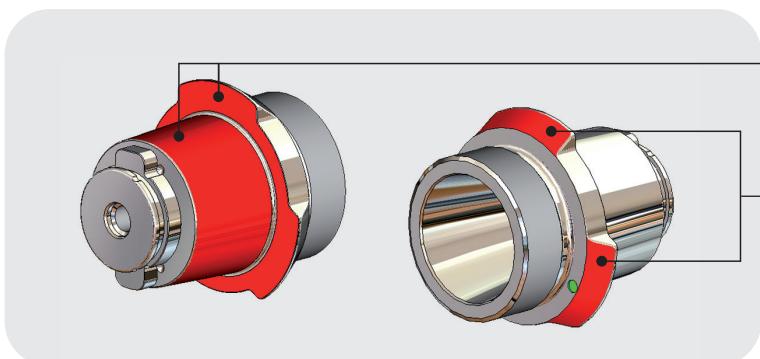
Le cartucce Smart Change sono provviste di **DATAMATRIX** per l'identificazione e la gestione utensile in modo automatico. Il codice univoco è identificativo della cartuccia con il suo utensile.

Smart Change adapters are marked with **DATAMATRIX** for the automatic tool identification and management. The unique code identify the adapter a long with its cutting tool.

## Perchè 3 VOLTE SMART...

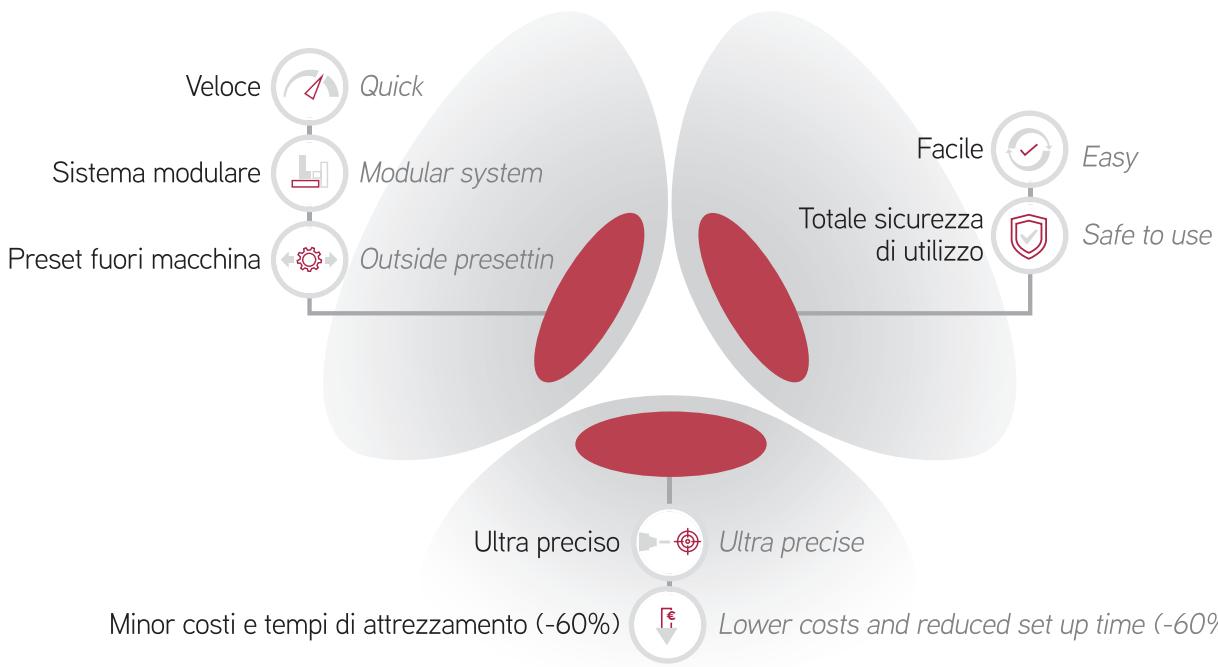
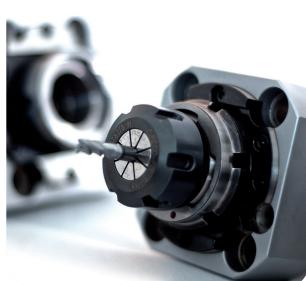
*Why 3 times smart...*

Il sistema **Smart Change** sfrutta ben **3 superfici di contatto** per una maggior precisione e ripetibilità.  
Our Smart Change system features **3 contact surfaces** as shown for a higher precision and accuracy.



Conicità + Piano inferiore  
Taper + Underneath

Conicità superiore  
Upper tapered surface



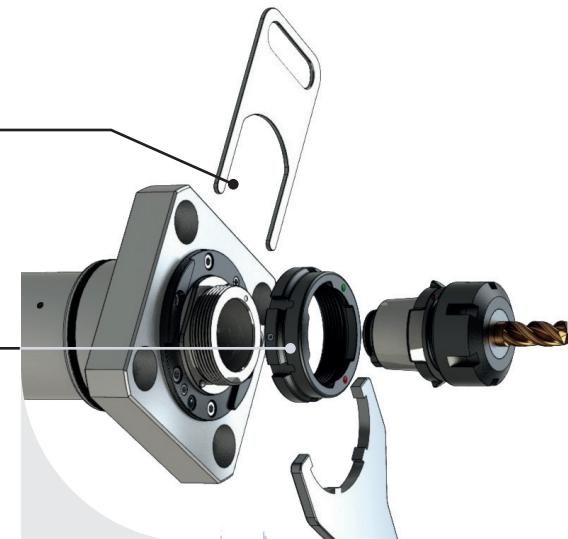
**INCREMENTO DELLA PRODUTTIVITÀ**  
*INCREASED PRODUCTIVITY*

# COME È FATTO.

*How it is made*

- Chiave di riscontro SmartChange  
(permette montaggio con una sola mano)  
*SmartChange Wrench  
(one-hand handling)*

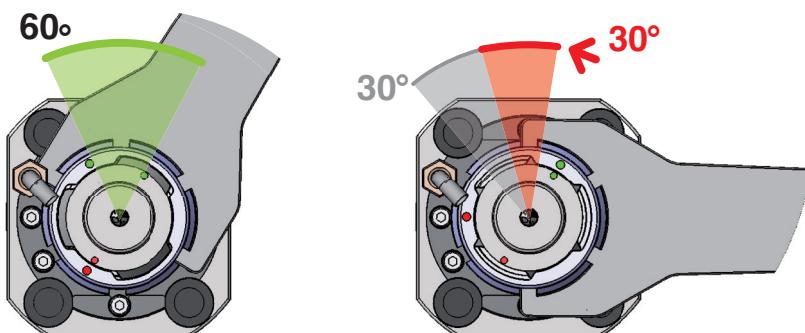
- Ghiera SmartChange brevettata  
(fissata al corpo principale)  
*Patented SmartChange nut  
(fixed on the main body)*



# COME FUNZIONA.

*How it works*

- Bloccaggio Ghiera  
*Clamping nut*
- Sbloccaggio  
*Unclamping*
- Estrazione  
*Pull out*



Tempo massimo di sostituzione cartucce  
*Time to change front end*

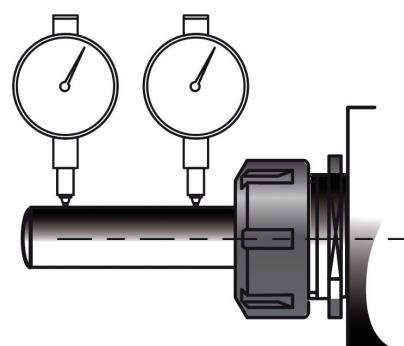
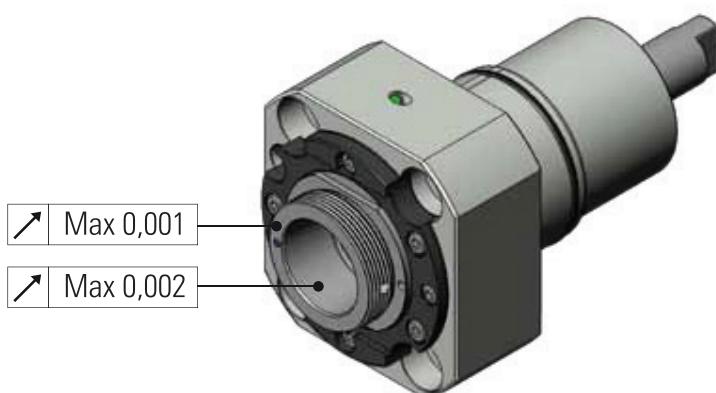
**20''**

Precisione con barra inserita nel mandrino  
*Accuracy with gauge bar inserted in the collet chuck*

Ripetibilità / *Repeatability*

**0,003 mm**

a 40mm = 0.008 mm | at 40mm = 0.008 mm  
a 120mm = 0.01 mm | at 120mm = 0.01 mm



# DATI TECNICI.

## Technical Data

PORTAPINZA INCASSATO IN-BUILT COLLET	ER-20A ( $\varnothing 1/13\text{mm}$ )			ER-25A ( $\varnothing 1/16\text{mm}$ )											
	$\varnothing$	A	D	$\varnothing$	A	D									
	1/13	21.5	36.8	1/16	32.4	41									
PORTAPINZA / COLLET	ER-20 ( $\varnothing 1/13\text{mm}$ )	ER-25 ( $\varnothing 1/17\text{mm}$ )	ER-32 ( $\varnothing 2/22\text{mm}$ )	PORTAPINZA / COLLET	ERC20 ( $\varnothing 1/13\text{mm}$ )	ERC25 ( $\varnothing 1/16\text{mm}$ )	ERC32 ( $\varnothing 2/20\text{mm}$ )								
	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D
	1/13	28.5	34	1/16	30.5	42	2/20	41.5	50	1/13	33.5	34	1/16	35.5	42
WELDON	$(\varnothing 6)$			$(\varnothing 5)$			$(\varnothing 10)$			$(\varnothing 12)$			$(\varnothing 16)$		
	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D
	6	20	36.8	8	20	36.8	10	20	36.8	12	20	36.8	16	20	36.8
PORTAFRESA / SHELL MILL	$(\varnothing 13)$			$(\varnothing 16)$			$(\varnothing 22)$								
	$\varnothing$	A	H	$\varnothing$	A	H	$\varnothing$	A	H						
	13	24.5	13	16	30.5	17	22	32.5	19						
CALETTAMENTO / SHRINK FIT	$(\varnothing 3\text{mm})$			$(\varnothing 4\text{mm})$			$(\varnothing 6\text{mm})$			$(\varnothing 8\text{mm})$			$(\varnothing 10\text{mm})$		
	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D
	3	40	13	4	40	15	6	40	21	8	40	21	10	40	24
WELDON POLICI / INCH	$(\varnothing 1/4")$			$(\varnothing 3/8")$			ER-20 ( $\varnothing 1/2"$ )			$(\varnothing 5/8")$			$(\varnothing 3/4")$		
	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D	$\varnothing$	A	D
	1/4"	20	36,8	3/8"	20	36,8	1/2"	20	36,8	5/8"	20	36,8	3/4"	20	36,8
PORTAFRESA POLICI SHELL MILL INCH	$(\varnothing 3/4")$			$(\varnothing 1")$											
	$\varnothing$	A	H	$\varnothing$	A	H									
	3/4"	31	17,5	1"	30,77	17,27									
BLANK	BLANK														
	$\varnothing$	A	D												
	/	81	52												

### Accessori / Accessories



Adattatore preset ISO/BT  
Preset adapter ISO/BT



Adattatore preset HSK  
Preset adapter HSK



Tool boy



Chiavi di servizio  
Wrenches

## PRESETTAGGIO fuori macchina.

*Outside presetting*



Una volta montato l'utensile è possibile **presetare la cartuccia utilizzando l'apposito adattatore**.

*Once the cutting tool is mounted, it is possible to preset the adapter in the presetter thanks to the Smart Change adapter.*



**Adattatori disponibili**

ISO -BT 40 / 50 - HSK 63 / 100

*Available adapters  
ISO -BT 40 / 50 -  
HSK 63 / 100*

Ciò permette di **ridurre i tempi e i costi** legati all'attrezzamento macchina che avverà in tempo mascherato, **aumentando notevolmente la produttività**.

*This system allows to reduce time and costs for the set up with tremendous increase in the productivity.*

Grazie alla **nuova applicazione** è possibile **presetare tutta la testa con una cartuccia montata**. Una particolare attrezzatura su cui è fissato lo Stop Block permette di montare l'intera testa nel preset e rilevare le misure necessarie.

*Thanks to the new application it is possible to preset the complete head with the adapter mounted. A special fixture with the Stop Block allows to install the head into the presetter to measure the needed dimensions.*

Immagine del presettaggio di una testa angolare regolabile: il preset misura l'angolo, dopo aver identificato i punti destro e sinistro, calcola in automatico il centro di rotazione dell'utensile e il suo diametro.

*The picture shows the preset of an adjustable angle head: the preset measures the angle, after having identified the right and left points, it calculates automatically the rotations centre of the tool and its diameter.*



## T90cn-3.5 SMART CHANGE

### AST9035C

#### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
**1:1**



RPM  
Velocità  
**5.000 min<sup>-1</sup>**



Max. axial load  
Max. carico assiale  
**1.250 N**



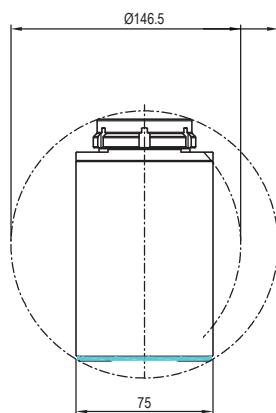
Torque  
Momento torcente  
**70 Nm**



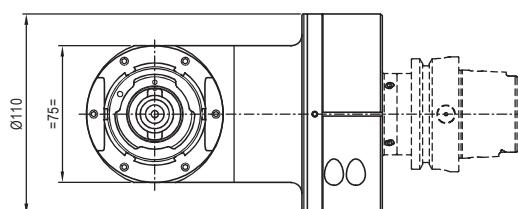
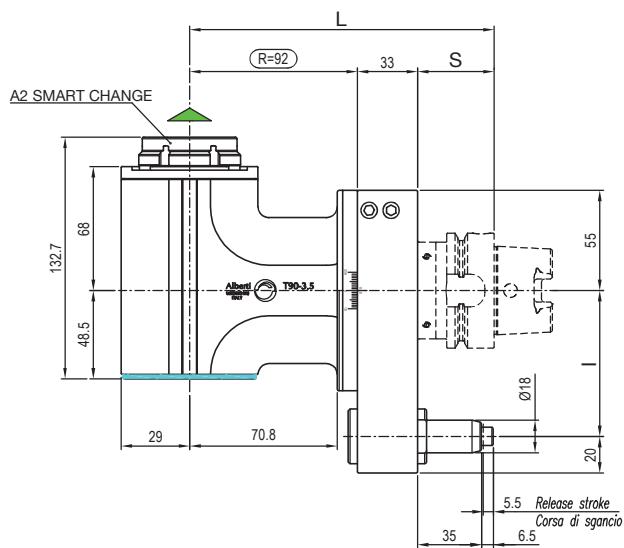
Weight  
Peso  
**11 kg**



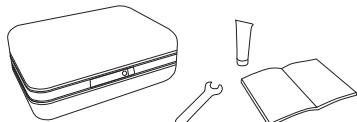
Collet  
Pinza  
SmartChange System



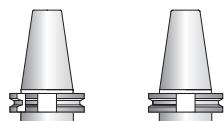
Minimum diameter without tool  
Diametro minimo senza utensile



\* STANDARD EQUIPMENT  
includes:



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



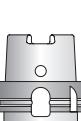
DIN / Cono

**DIN-69871**

CAT



MAS-BT



HSK



CAPTO



KM

Size / Grandezza

50

50

63-80

100

C6

C8

63

I

80-110

80-110

80-110

80-110

80-110

80-110

80

S

35

41

42

45

38

40

40

L

160

166

167

170

163

165

165

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

#### Option / Opzione



bar max  
**12**

Coolant through pin and spindle  
Refrigerante interno attraverso utensile



bar max  
**100**

Coolant through spindle  
Refrigerante attraverso il cono



min<sup>-1</sup>  
**9.000**

RPM max.  
RPM max.



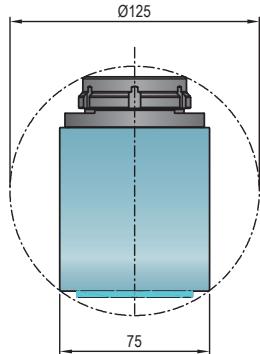
min<sup>-1</sup>  
**6.000**

High speed optional RPM max.  
Opzione alta velocità RPM max.

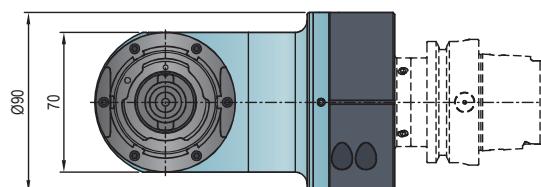
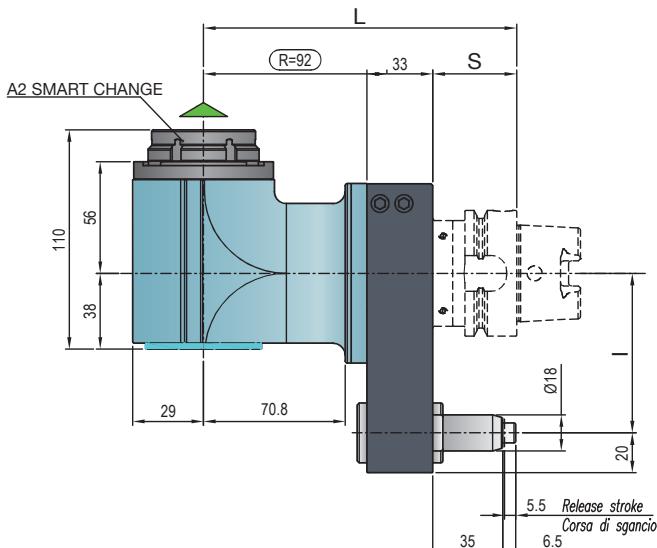
# T90cn-3.5

## ALUMINIUM SMART CHANGE

### AST9035C.ALU



Minimum diameter without tool  
Diametro minimo senza utensile

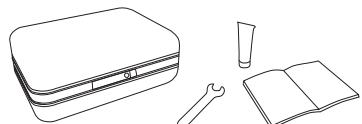


▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

#### Technical data Caratteristiche tecniche

	Ratio Rapporto 1:1
	RPM Velocità 5.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 1.250 N
	Torque Momento torcente 40 Nm
	Weight Peso 5.5 kg
	Collet Pinza Smart Change

\* STANDARD EQUIPMENT  
includes:



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	40		63-80	C6	63
I	80-110	80-110		110	80-110	80-110
S	35	41		42	38	40
L	150	156		157	153	155

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

#### Option / Opzione



bar max

12

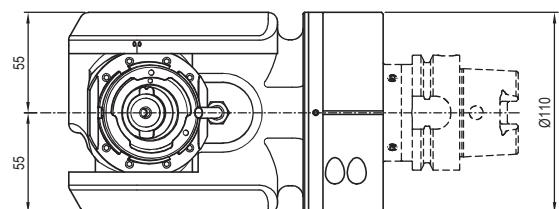
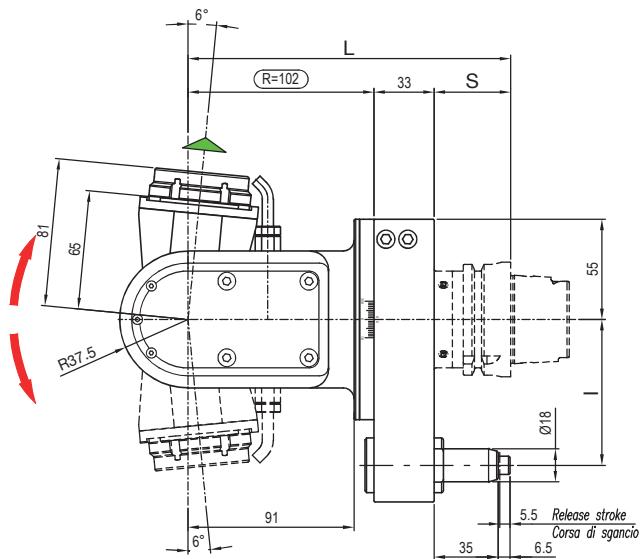
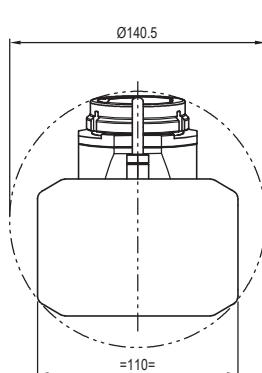
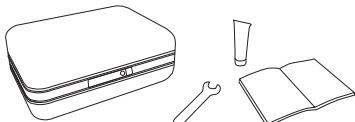
Coolant through pin  
Refrigerante attraverso il perno

# TCUcn-3.5 Neo

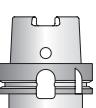
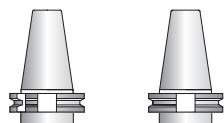
## ASTCU355C SMART CHANGE

**Technical data**

Caratteristiche tecniche

Ratio  
Rapporto  
1:1RPM  
Velocità  
 $4.000 \text{ min}^{-1}$ Max. axial load  
Max. carico assiale  
715 NTorque  
Momento torcente  
50 NmWeight  
Peso  
13 kgCollet  
Pinza  
A2 Smart Change**\* STANDARD EQUIPMENT**  
includes:

Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK		CAPTO		KM
Size / Grandezza	50		50	63-80	100	C6	C8	63
I	80-110		80-110	80-110	80-110	80-110	80-110	80-110
S	35		41	42	45	38	40	40
L	160		166	167	170	163	165	165

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

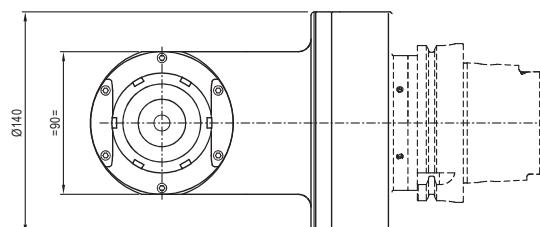
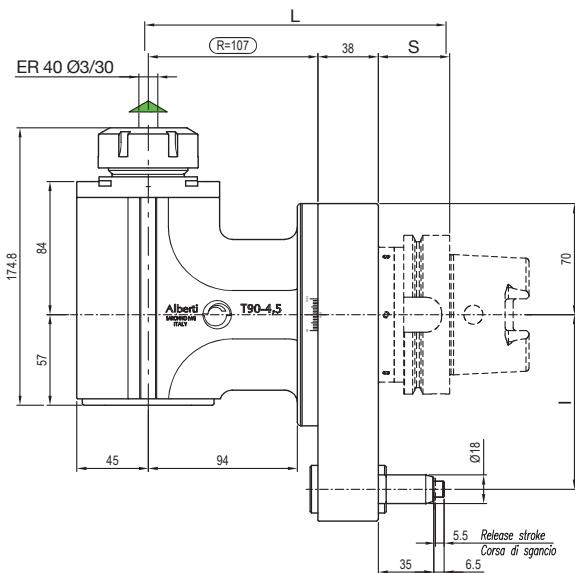
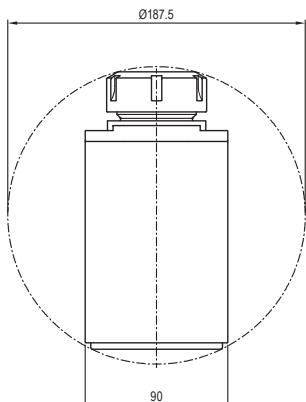
**Option / Opzione**bar max  
12Coolant through pin  
Refrigerante attraverso il pernobar max  
100Coolant through spindle  
Adduzione refrigerante internamin<sup>-1</sup>  
6.000RPM max.  
RPM max.

+/- 95°

Angle  
Angoloevery  
5°Fixed positioning  
Posizionamento fisso

# T90cn-4.5C Neo

## ACT9045C



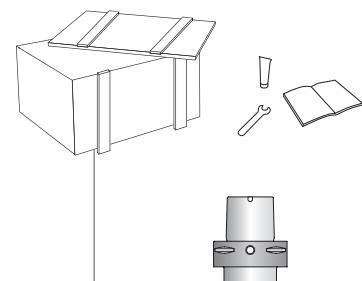
### Technical data

Caratteristiche tecniche

	Ratio Rapporto <b>1:1</b>
	RPM Velocità <b>4.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>1.750 N</b>
	Torque Momento torcente <b>90 Nm</b>
	Weight Peso <b>17 kg</b>
	Tapping Maschiatura <b>Max. M20</b>
	Collet Pinza <b>ER-40 (ø 3/30 mm)</b>

\* STANDARD EQUIPMENT  
includes:

 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50		80	100
I	110	110		110	110
S	35	41		42	45
L	180	186		187	190

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione

	bar max <b>12</b>		Ø mm <b>27</b>		Ø mm max. <b>25</b>		HSK-40 / CAPTO C4		ER 40/ER 25
Coolant through pin Refrigerante attraverso il perno		Arbor output Porta fresa		Weldon output Weldon		Quick Change Attacco rapido		Double output Doppia uscita	

# T90cn-4.5C Neo IC

## ACT9045C.IC

**Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**6.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**1.750 N**



**Torque**  
Momento torcente  
**90 Nm**



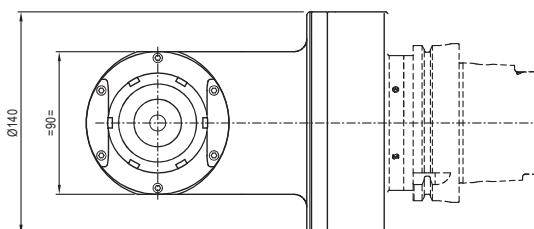
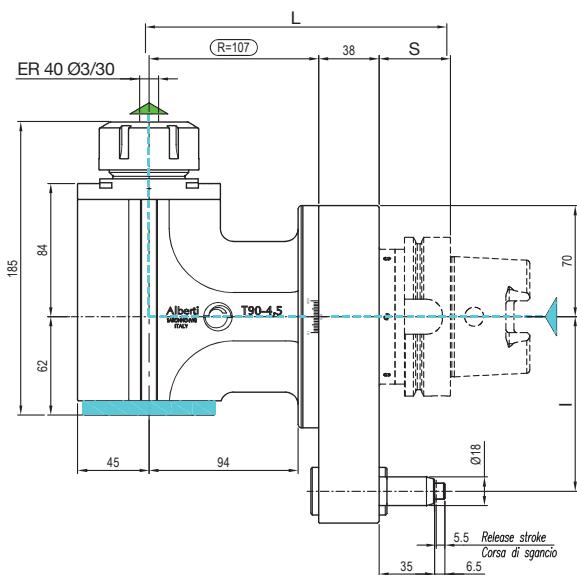
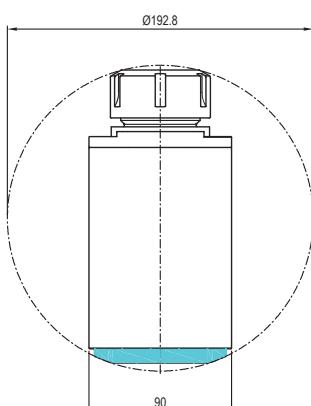
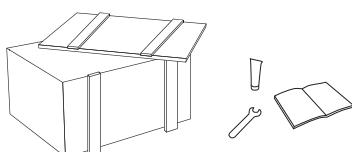
**Weight**  
Peso  
**17 kg**



**Tapping**  
Maschiatura  
**Max. M20**



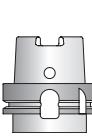
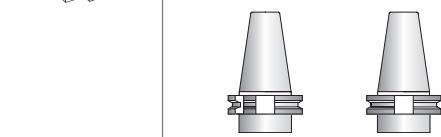
**Collet**  
Pinza  
**ER-40 (ø 3/30 mm)**


**\* STANDARD EQUIPMENT**  
includes:


▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	80	100	C8
I	110	110	110	110	110
S	35	41	42	45	40
L	180	186	187	190	185

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

**Option / Opzione**

Ø mm  
**27**

Arbor output  
Porta fresa



Ø mm max.  
**25**

Weldon output  
Weldon

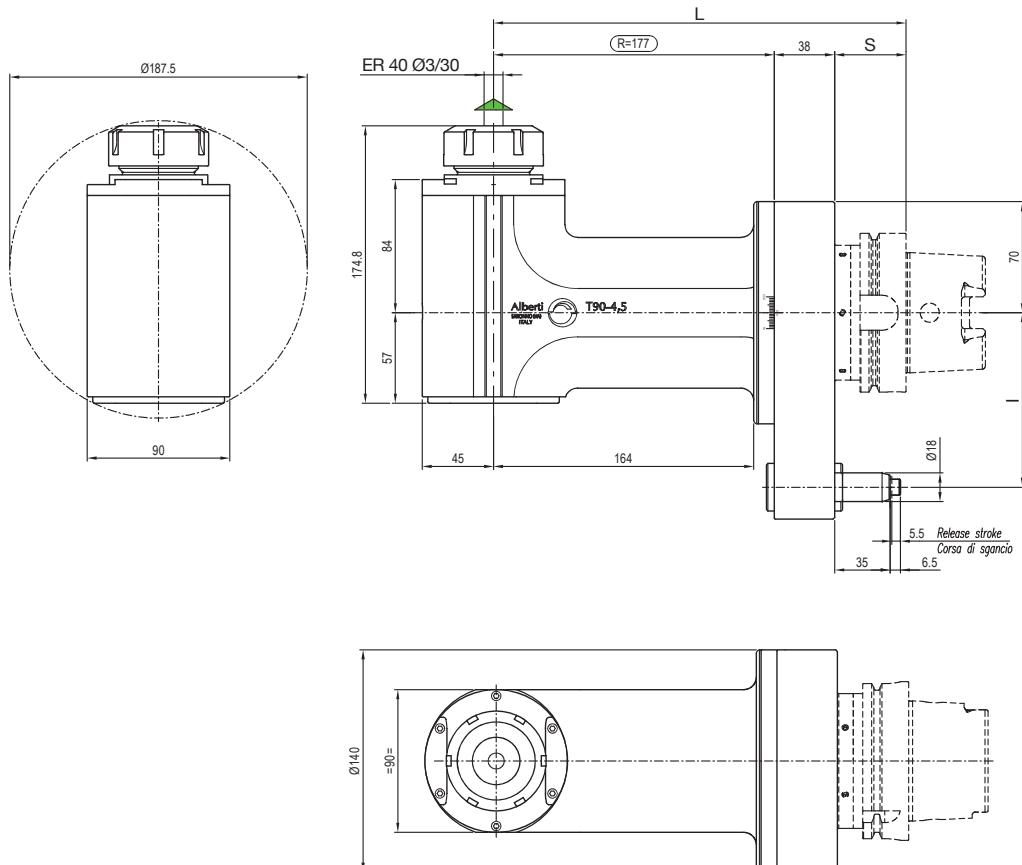


**HSK-40 / CAPTO C4**

Quick Change  
Attacco rapido

# T90cn-4.5L Neo

## ACT9045L



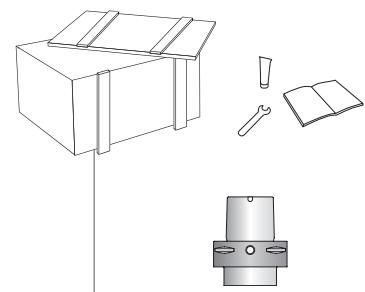
### Technical data

Caratteristiche tecniche

	Ratio Rapporto <b>1:1</b>
	RPM Velocità <b>4.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>1.750 N</b>
	Torque Momento torcente <b>90 Nm</b>
	Weight Peso <b>20 kg</b>
	Tapping Maschiatura <b>Max. M20</b>
	Collet Pinza <b>ER-40 (Ø 3/30 mm)</b>

\* STANDARD EQUIPMENT  
includes:

 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	80	100	C8
I	110	110	110	110	110
S	35	41	42	45	40
XL	180	186	187	190	185

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione

	bar max <b>12</b>		Ø mm <b>27</b>		Ø mm max. <b>25</b>		HSK-40 / CAPTO C4		ER 40/ER 25
Coolant through pin Refrigerante attraverso il perno		Arbor output Porta fresa		Weldon output Weldon		Quick Change Attacco rapido		Double output Doppia uscita	

# T90cn-4.5L Neo IC

## ACT9045L.IC

### Technical data

Caratteristiche tecniche



Ratio

Rapporto  
1:1

RPM

Velocità  
6.000 min<sup>-1</sup>

DRY Running

4.000 min<sup>-1</sup>

Max. axial load

Max. carico assiale  
1.750 N

Torque

Momento torcente  
90 Nm

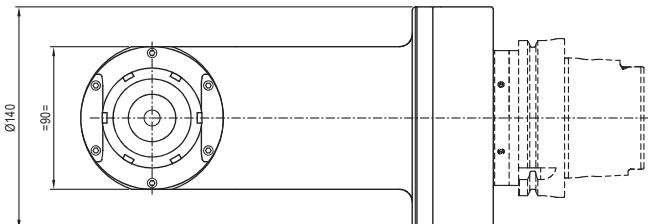
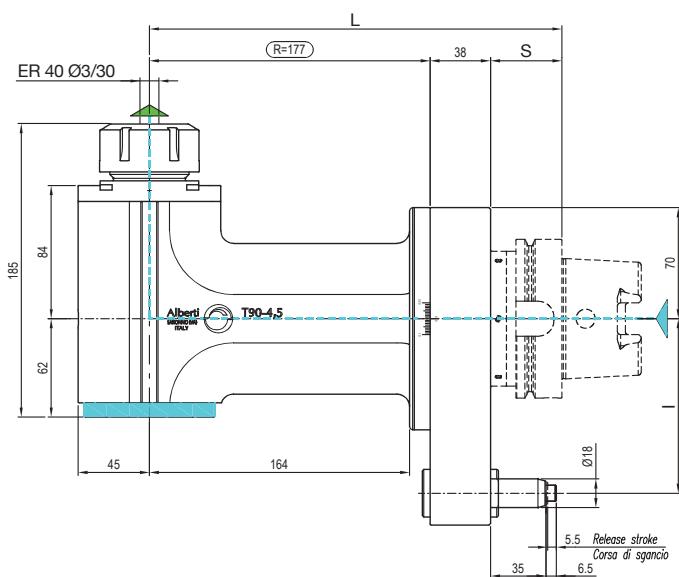
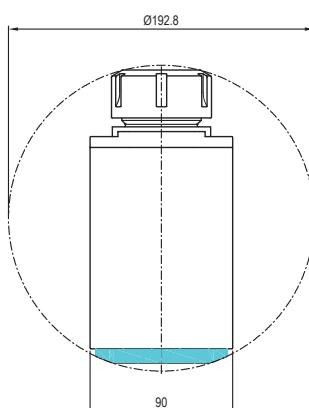
Weight

Peso  
20 kg

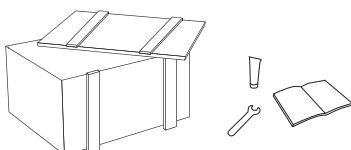
Tapping

Maschiatura  
Max. M20

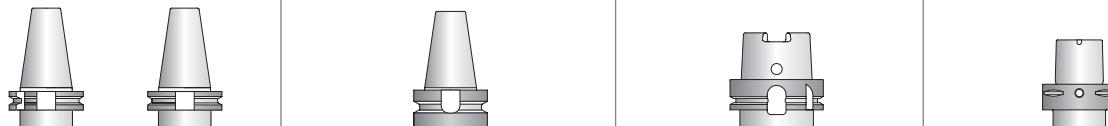
Collet

Pinza  
ER-40 (ø 3/30 mm)

### \* STANDARD EQUIPMENT includes:



- ▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
 Dry rotation is possible / rotazione a secco possibile  
 ▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	80	100	C8
I	110	110	110	110	110
S	35	41	42	45	40
XL	180	186	187	190	185

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione

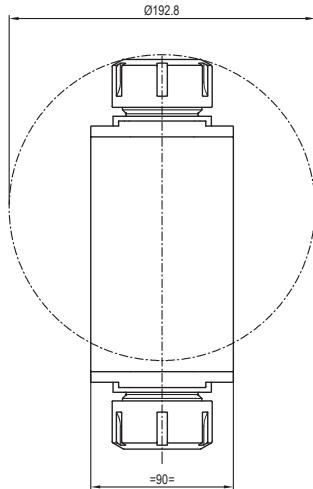
Ø mm  
27Arbor output  
Porta fresaØ mm max.  
25Weldon output  
Weldon

HSK-40 / CAPTO C4

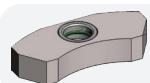
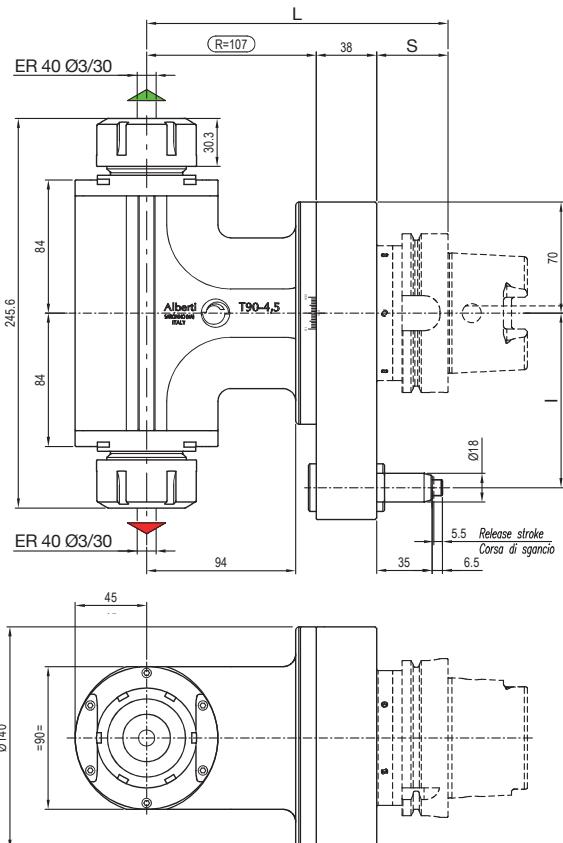
Quick Change  
Attacco rapido

# T90cn-4.5 2U Neo

## ACT9045D



Minimum diameter without tool  
Diametro minimo senza utensile



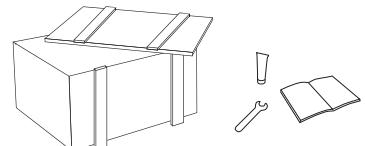
**Retaining block / Tassello di ritegno / Stop-Block**  
**NOT INCLUDED - NON INCLUSO**

- ▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino
- ▲ Direction of rotation opposite as machine spindle / senso di rotazione contrario al mandrino

### Technical data Caratteristiche tecniche

	Ratio Rapporto 1:1
	RPM Velocità 4.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 1.250 N
	Torque Momento torcente 50 Nm
	Weight Peso 20 kg
	Collet Pinza ER-32 (Ø 2/20 mm)

\* STANDARD EQUIPMENT  
includes:



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	80	100	C8
I	110	110	110	110	110
S	35	41	42	45	40
L	180	186	187	190	185

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max  
12

Coolant through pin  
Refrigerante attraverso il perno



Ø mm  
27

Arbor output  
Porta fresa



Ø mm max.  
25

Weldon output  
Weldon



HSK-40

Quick Change  
Attacco rapido

## TR90cn-4.5

## ACTR945C

## Technical data

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**4.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**1.750 N**



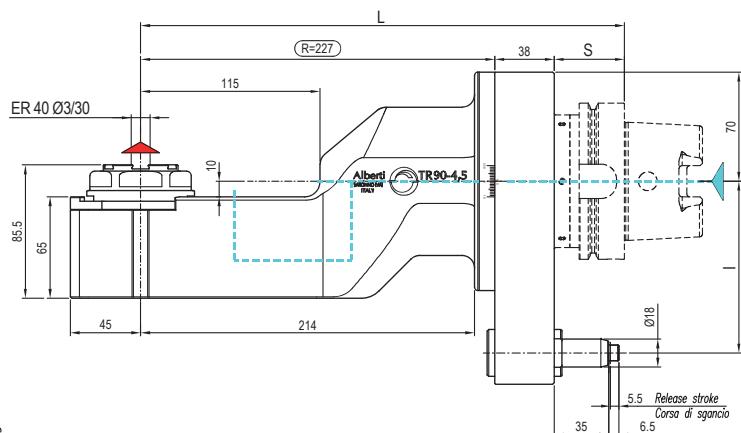
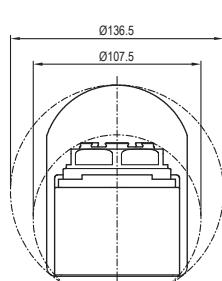
**Torque**  
Momento torcente  
**90 Nm**



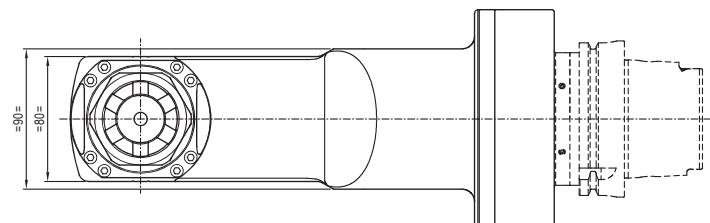
**Weight**  
Peso  
**20 kg**



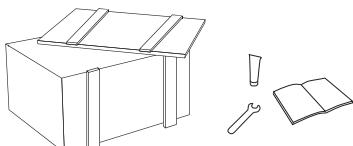
**Collet**  
Pinza  
**ER-40 (ø 3/30 mm)**



Minimum diameter without tool  
Diametro minimo senza utensile



\* **STANDARD EQUIPMENT**  
includes:



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	80	100	C8
I	110	110	110	110	110
S	35	41	42	45	40
L	297,5	303,5	304,5	307,5	302,5

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

## Option / Opzione



bar max  
**100**

Coolant through spindle  
Refrigerante attraverso il cono

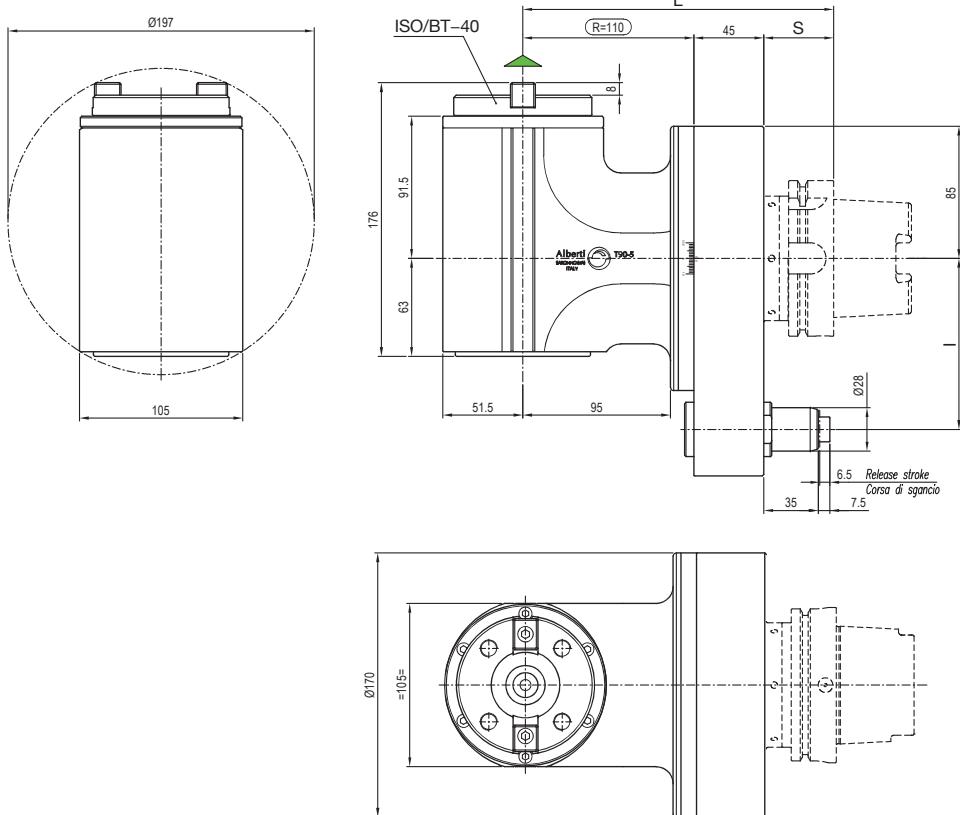


min<sup>-1</sup>  
**6.000**

RPM max.  
RPM max.

# T90cn-5 Neo

## ACT905HP



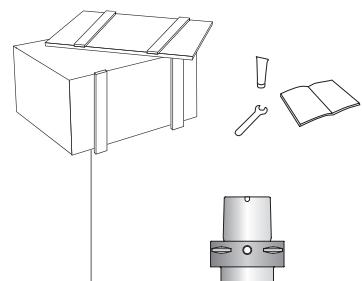
### Technical data

Caratteristiche tecniche

	Ratio Rapporto <b>1:1</b>
	RPM Velocità <b>3.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>1.800 N</b>
	Torque Momento torcente <b>160 Nm</b>
	Weight Peso <b>22 kg</b>
	Tapping Maschiatura <b>Max. M24</b>
	Collet Pinza <b>ISO/BT 40</b>

\* STANDARD EQUIPMENT  
includes:

 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	50	100	C8
I	110	110	110	110	110
S	35	41	41	45	40
L	190	196	196	200	195

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max

12

Coolant through pin  
Refrigerante attraverso il perno



HSK-63 / CAPTO C4 C5 C6

Quick Change  
Attacco rapido

# T90cn-5C Neo IC

## ACT905HP.IC

**Technical data**

Caratteristiche tecniche



Ratio

Rapporto  
1:1

RPM

Velocità  
5.000 min<sup>-1</sup>

DRY

Running  
3.000 min<sup>-1</sup>

Max. axial load

Max. carico assiale  
1.800 N

Torque

Momento torcente  
160 Nm

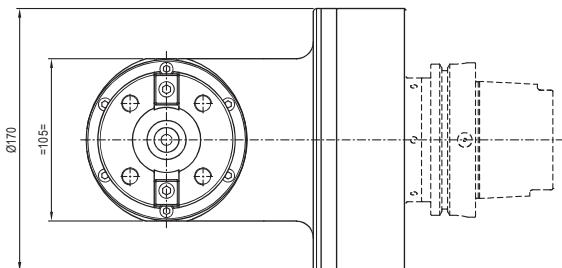
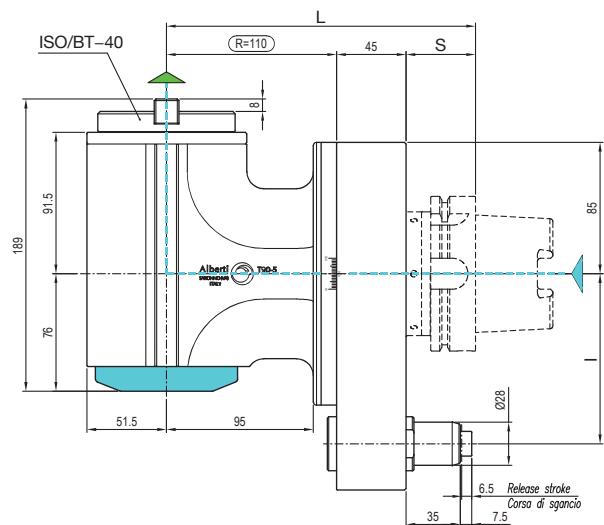
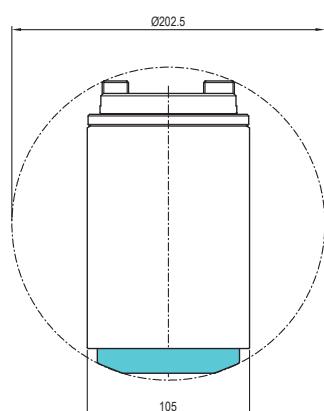
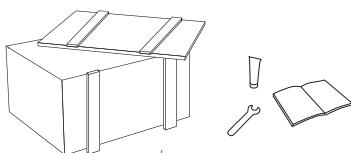
Weight

Peso  
22 kg

Tapping

Maschiatura  
Max. M24

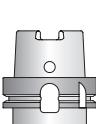
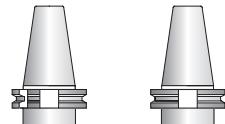
Collet

Pinza  
ISO/BT 40**\* STANDARD EQUIPMENT**  
includes:

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

▲ Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	80	100	C8
I	110	110	110	110	110
S	35	41	42	45	40
L	297,5	303,5	304,5	307,5	302,5

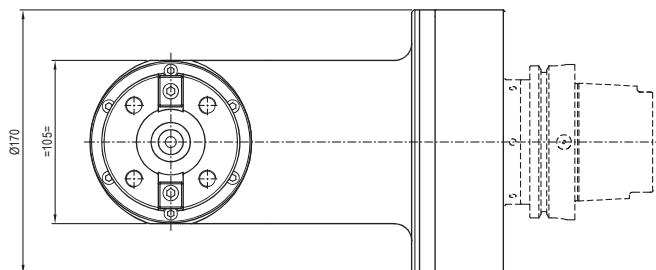
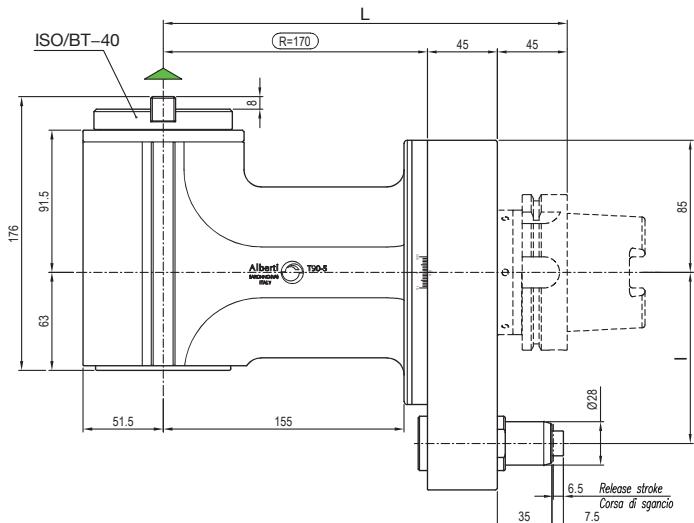
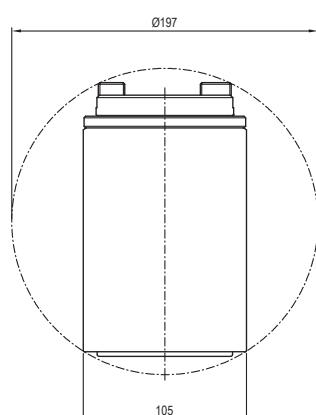
Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

**Option / Opzione****HSK-63 / CAPTO C4 C5 C6**Quick Change  
Attacco rapido

# T90cn-5L Neo

## ACT905LHP



### Technical data

Caratteristiche tecniche



Ratio

Rapporto

1:1



RPM

Velocità

3.000 min<sup>-1</sup>



Max. axial load

Max. carico assiale

1.800 N



Torque

Momento torcente

160 Nm



Weight

Peso

26,2 kg



Tapping

Maschiatura

Max. M24



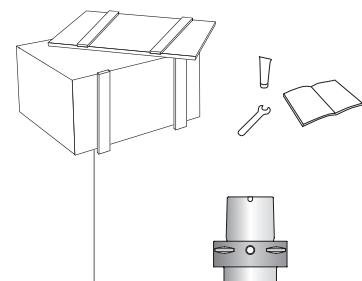
Collet

Pinza

ISO/BT 40

\* STANDARD EQUIPMENT  
includes:

Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
Dry rotation is possible / rotazione a secco possibile



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	50	100	C8
I	110	110	41	110	110
S	35	41	41	45	40
XL	190	196	196	200	195

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### Option / Opzione



bar max

12

Coolant through pin  
Refrigerante attraverso il perno



HSK-63 / CAPTO C4 C5 C6

Quick Change  
Attacco rapido

# T90cn-5L Neo IC

## Technical data

Caratteristiche tecniche



Ratio

Rapporto  
1:1



RPM

Velocità  
5.000 min<sup>-1</sup>

DRY  
Running

3.000 min<sup>-1</sup>



Max. axial load

Max. carico assiale  
1.800 N



Torque

Momento torcente  
160 Nm



Weight

Peso  
26,2 kg



Tapping

Maschiatura

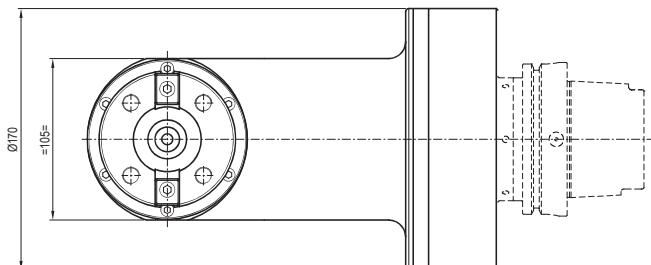
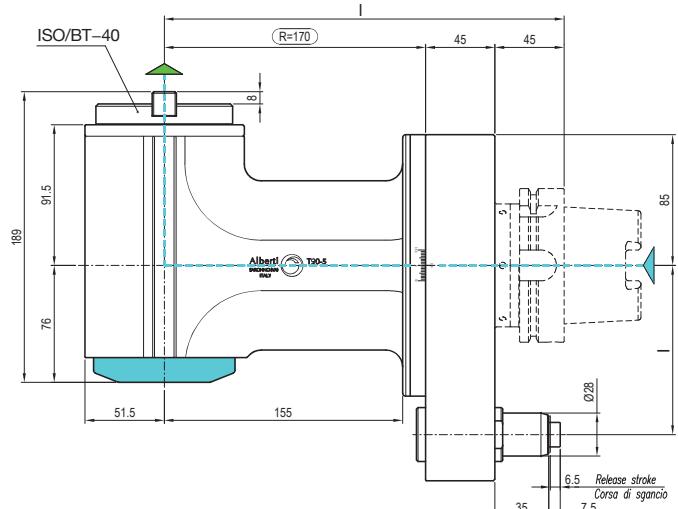
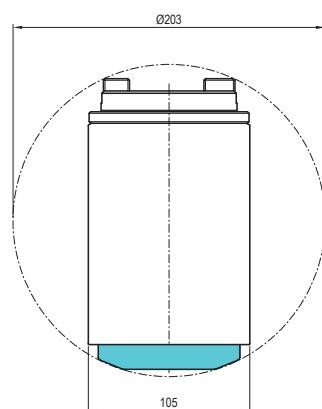
Max. M24



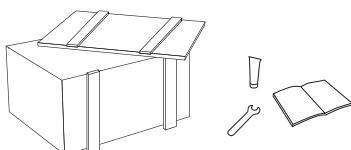
Collet

Pinza

ISO/BT 40



## \* STANDARD EQUIPMENT includes:



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Dry rotation is possible / rotazione a secco possibile

Input coolant max. 1450 PSI / ingresso refrigerante max. 100 bar

Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	50	50	80	100	C8
I	110	110	110	110	110
S	35	41	42	45	40
XL	297,5	303,5	304,5	307,5	302,5

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

## Option / Opzione



HSK-63 / CAPTO C4 C5 C6

Quick Change  
Attacco rapido



## TESTE EXTENDED

Le TESTE CON PROLUNGA sono composte da un **blocco modulo di prolunga** sul quale vengono montate una selezione di teste standard.

Grazie alle **teste Extended** è possibile **variare la lunghezza utile della testa** senza ricorrere ad una soluzione speciale per realizzare lavorazioni che richiedono una lunghezza maggiorata.



The **EXTENDED HEADS** are made up by a **portion of extension spacer** where it is possible to mount different standard heads.

Thanks to the **Extended heads** it is possible to **adjust the overall length of the head** without having a special solution. These heads are mainly used in all applications where the needed length must be extended compared to the standard offering.



Grazie all'utilizzo di un materiale differente siamo inoltre riusciti a **contenere notevolmente il peso** rispetto alla precedente versione.

Un **sistema modulare componibile**, rende possibile variare la lunghezza del corpo testa aggiungendo l'**elemento di prolunga**.

Thanks to a different material used we could also **reduce considerably the total weight**.

The **modular system** makes it possible to extend the length of the body by **adding a spacer**.

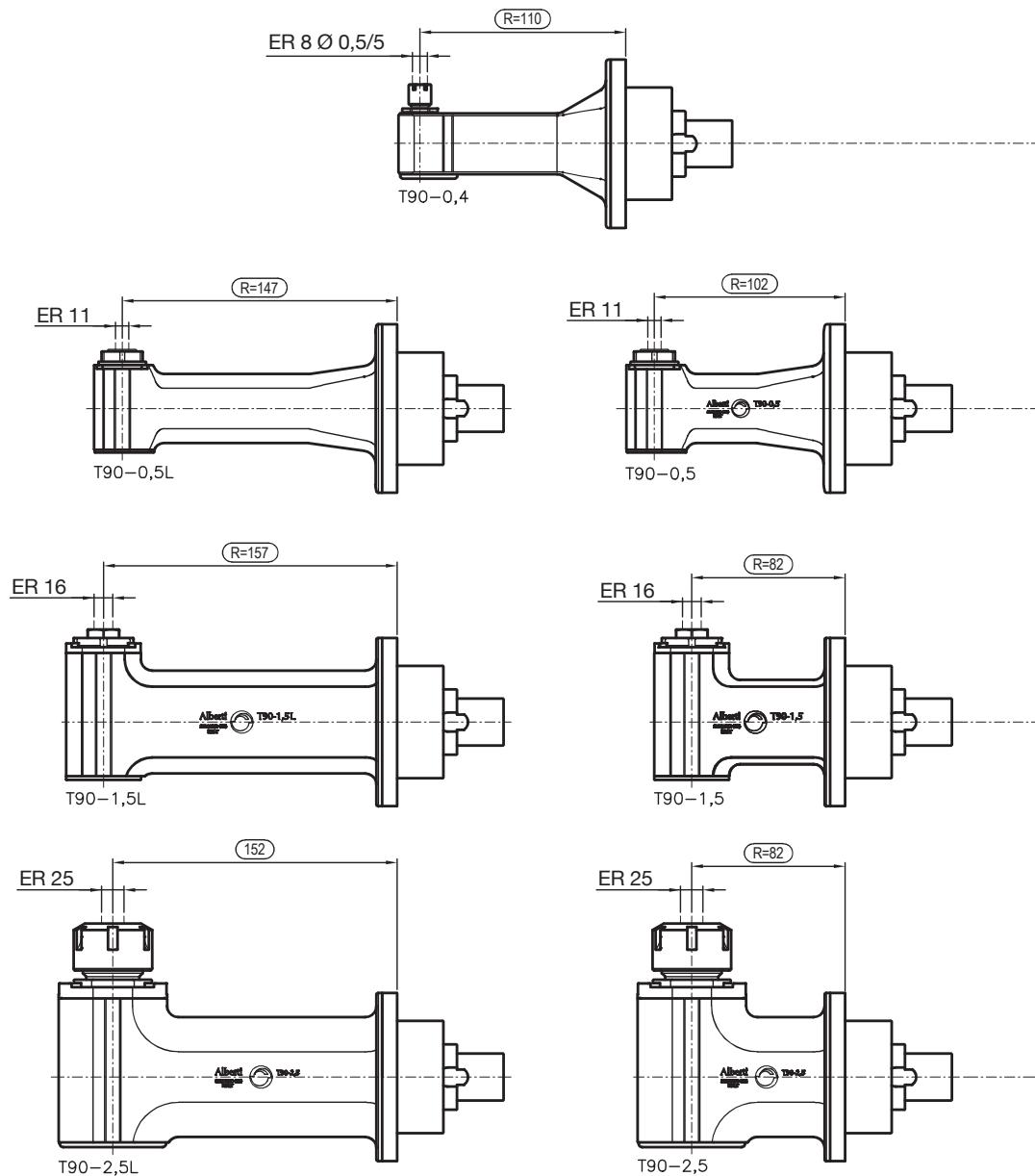


## Teste con PROLUNGA

Extended heads

8.000 Rpm

6.000 Rpm

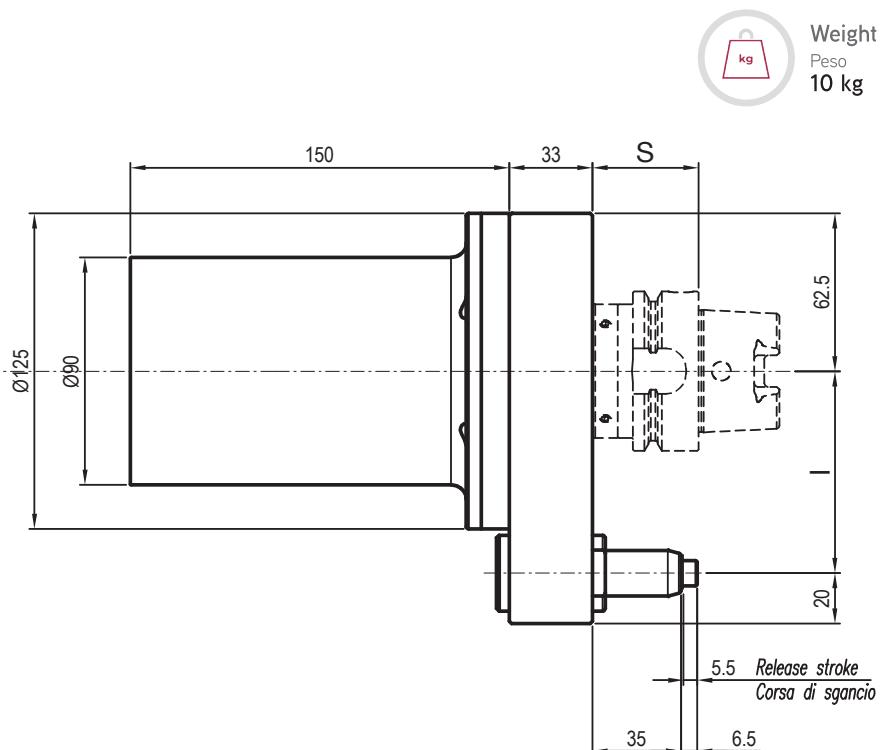


TECHNICAL DATA PAGE / CARATTERISTICHE TECNICHE A PAGINA

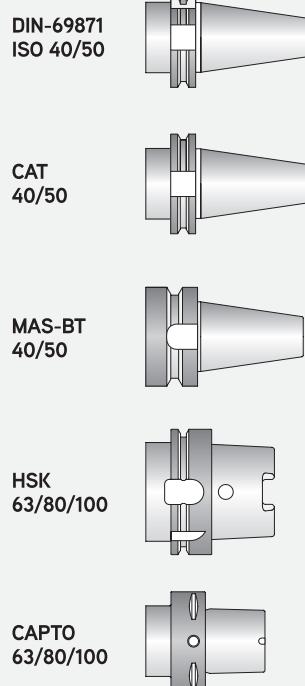
Testa / Head	Pagina / Page
T90-0,4	108
T90-0,5	109
T90-0,5L	110
T90-1,5	111
T90-1,5L	112
T90-2,5	114
T90-2,5L	115

# Teste con PROLUNGA

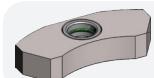
## Extended heads



**OPTIONAL DRIVE SHANK\***  
Non interchangeable input drive shank  
Coni non intercambiabili

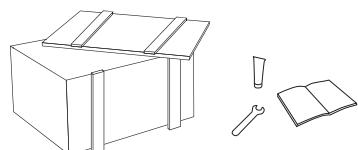


\* STANDARD EQUIPMENT  
includes:



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK		CAPTO	
Size / Grandezza	50	50	63-80	100	C6	C8	
I	80-110	80-110	80-(110*)	80-110	80-(110*)	80-110	
S	35	41	42	45	38	40	
L	218	224	225	228	221	223	

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### TOTAL LENGTH (R+L) / LUNGHEZZA TOTALE TESTA

Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK		CAPTO	
Size / Grandezza	50	50	50	63-80	100	C6	C8
T90-0.4	mm	328	334	335	338	331	333
T90-0.5C	mm	320	326	327	330	323	325
T90-0.5L	mm	365	371	372	375	368	370
T90-1.5	mm	300	306	307	310	303	305
T90-1.5L	mm	375	381	382	385	378	380
T90-2.5	mm	300	306	307	310	303	305
T90-2.5L	mm	370	376	377	380	373	375



# LINEA INDEX

Posizionamento automatico del portautensile su 360° tramite mandrino macchina  
tramite un sistema di frizione interno attivato da aria compressa max 6 bar.

**NESSUNA POSIZIONE FISSA. ORIENTAMENTO SU TUTTI  
GLI ANGOLI.**

*Automatic positioning of the cutting holder around  
360° by using machine spindle through an internal  
clutch mechanism activated by compressed  
air max 6 bar. NO FIXED POSITION.  
ANY ANGLE POSSIBLE.*

## FAMIGLIA TESTE INDEX

*Index heads*



QR CODE SCAN



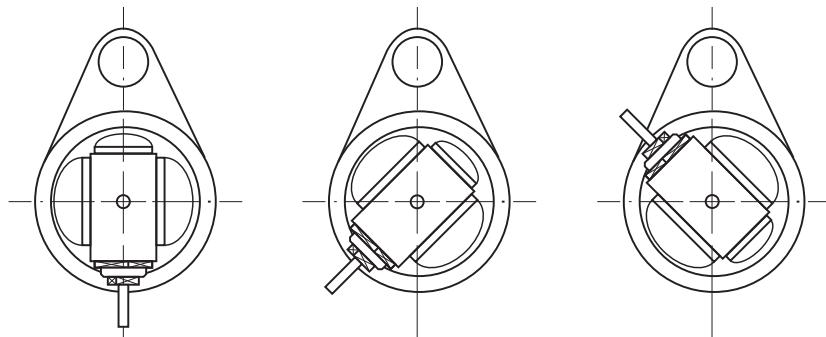


## Linea INDEX.

### INDEX Line

Le teste della **Linea INDEX** consentono di posizionare il portautensile in modo automatico sui 360° utilizzando l'asse controllato della macchina utensile. **Possono quindi essere montate SOLAMENTE su macchine con asse controllato e aria esterna (max 6 bar) tramite lo Stop Block.**

With the **INDEX Line** it is possible to orientate and position automatically over 360° the output of the head by using the controlled axis of the machine center. **This line CAN ONLY be mounted on machines with controlled C axis and external air through the Stop Block (max 6 bar).**



- 1** | Porzione di testa modulare standard posizionabile su 360°.

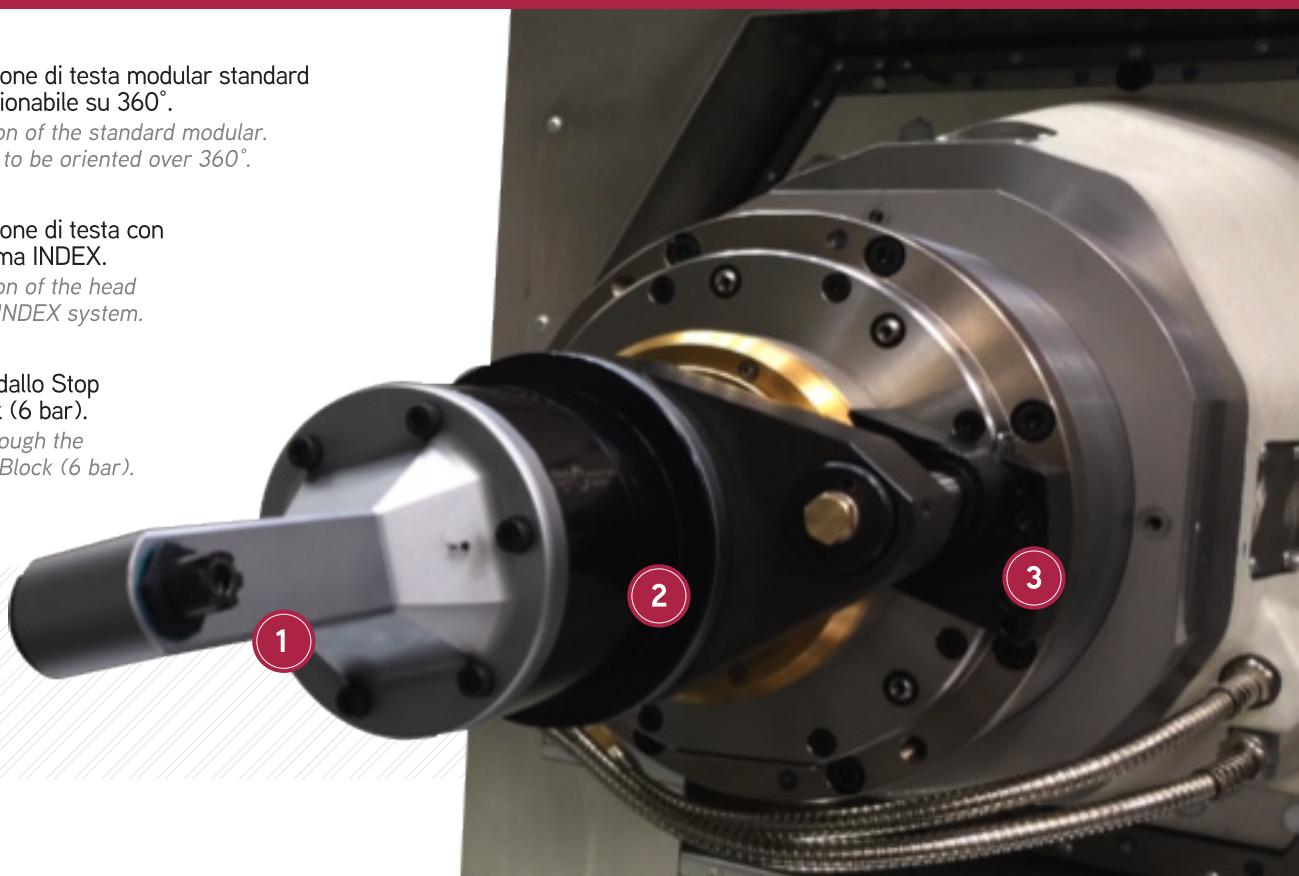
*Portion of the standard modular head to be oriented over 360°.*

- 2** | Porzione di testa con sistema INDEX.

*Portion of the head with INDEX system.*

- 3** | Aria dallo Stop Block (6 bar).

*Air trough the Stop Block (6 bar).*





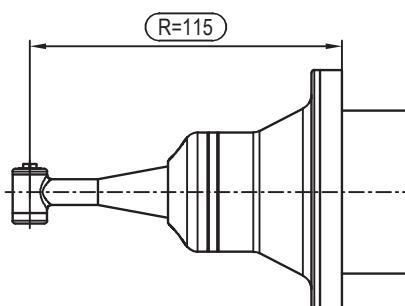
# Linea INDEX.

## INDEX Line

### T90-0.3 SLIMLINE

#### Technical data / Dati tecnici

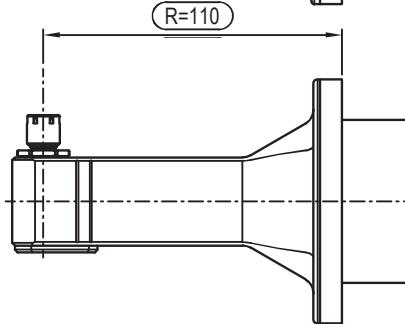
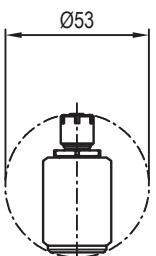
RPM max. / Max. Velocità input	min <sup>-1</sup>	15.000
Ratio (reduction)		3:4
Weight / Peso	Kg	3
Collet / Pinza		3 mm



### T90-0.4

#### Technical data / Dati tecnici

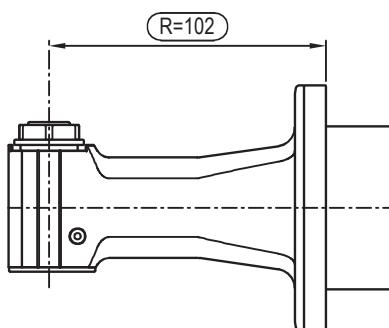
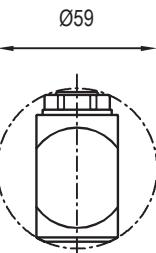
RPM max. / Max. Velocità input	min <sup>-1</sup>	10.000
Ratio		1:1
Weight / Peso	Kg	4
Collet / Pinza		ER-8 0,5/5 mm



### T90-0.5

#### Technical data / Dati tecnici

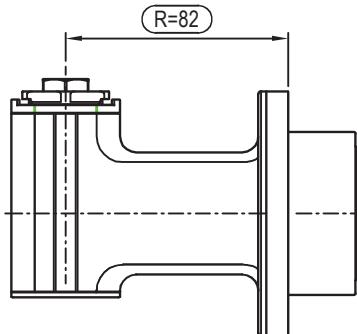
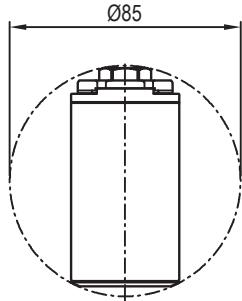
RPM max. / Max. Velocità input	min <sup>-1</sup>	10.000
Ratio		1:1
Weight / Peso	Kg	4
Collet / Pinza		ER-11 0,5/7 mm



### T90-1.5

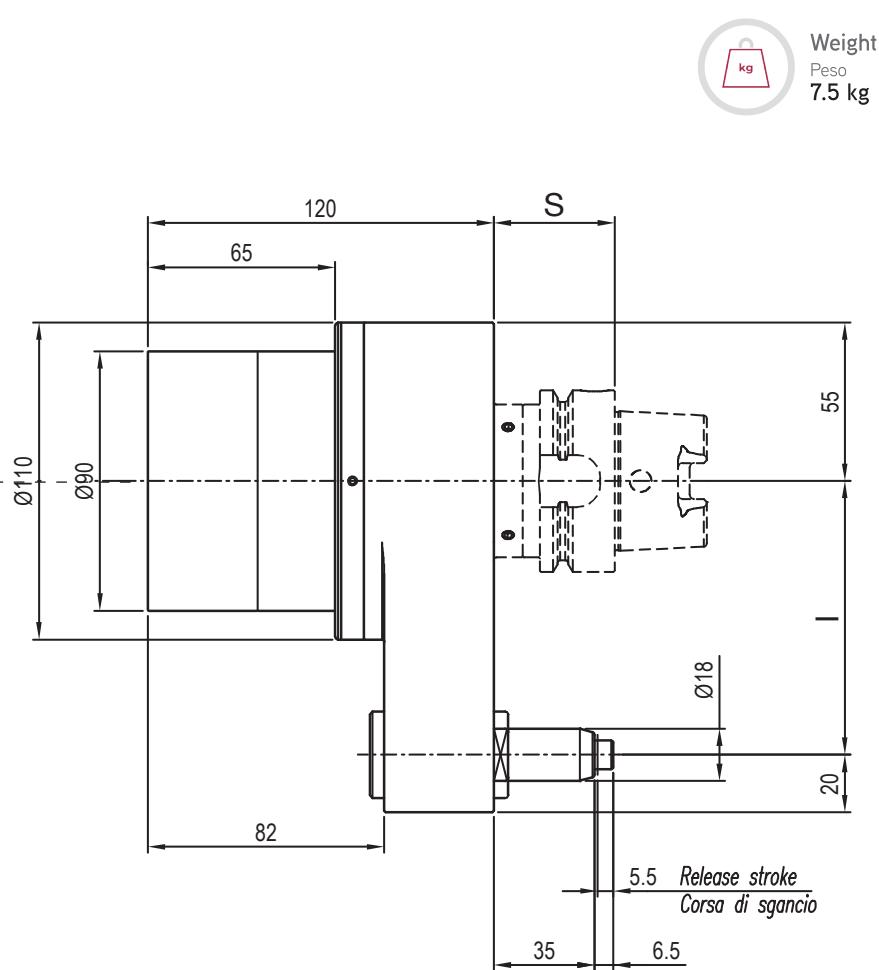
#### Technical data / Dati tecnici

RPM max. / Max. Velocità input	min <sup>-1</sup>	8.000
Ratio		1:1
Weight / Peso	Kg	4.3
Collet / Pinza		ER-16 1/10 mm



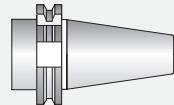
# Linea INDEX.

## INDEX Line

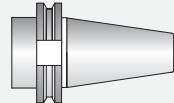


**OPTIONAL DRIVE SHANK\***  
Non interchangeable input drive shank  
Coni non intercambiabili

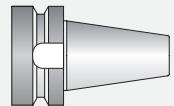
DIN-69871  
ISO 40/50



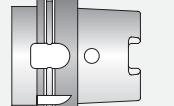
CAT  
40/50



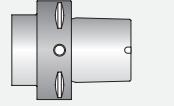
MAS-BT  
40/50



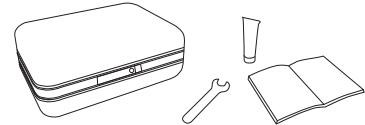
HSK  
63/80/100



CAPTO  
63/80/100



\* STANDARD EQUIPMENT  
includes:



Spindle / Cono	DIN-69871	CAT	MAS-BT		HSK		CAPTO	
Size / Grandezza	40	50	40	50	63-80	100	C5-C6	C8
I	80-(110*)	80-110	80-(110*)	80-110	80-(110*)	80-110	80-(110*)	80-110
S	35	35	35	41	42	45	38	40
L	155	155	155	161	162	165	158	160

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

### TOTAL LENGTH (R+L) / LUNGHEZZA TOTALE TESTA

Spindle / Cono	DIN-69871	CAT	MAS-BT		HSK		CAPTO	
Size / Grandezza	40	50	40	50	63-80	100	C5-C6	C8
T90-0.3 SLIMLINE	mm	270	270	270	276	277	280	273
T90-0.4	mm	265	265	265	271	272	275	268
T90-0.5	mm	257	257	257	263	264	267	260
T90-1.5	mm	237	237	237	243	244	247	240



# LINEA ULTRASLIM

Teste **SLIMLINE**.

*Slimline heads*

**Teste ad alta velocità** di dimensioni molto piccole, prendono il moto direttamente dalla macchina. Progettate per cambio utensile automatico sono **adatte per microlavorazioni** con utensili da 0,1 a 3mm.

*Very small high speed mechanical angle heads. They can be automatically exchanged by ATC and can fit in confined spaces for high speed machining with cutting tool size from 1,6mm to 3mm.*



## Teste **ULTRASLIM.**

### *Ultraslim heads*

La nuova serie di teste Ultraslim è stata progettata per offrire soluzioni standardizzate adatte a diverse **applicazioni in spazi molto ridotti**, come lavorazioni di piccole tasche oppure operazioni molto vicine a pareti laterali del pezzo. Il loro particolare design prevede la **parte superiore del portautensile intercambiabile** con una serie di modelli studiati ad hoc.

Disponibili in 2 principali modelli, possono essere utilizzate sia in foratura che in fresatura con capacità in pinza fino a 6mm.

New series of Ultraslim angle head was designed to offer standardized solution **for application in confined spaces** or very close to the wall.

For its particular design, the **top portion of the head can be easily replaced and exchanged** with a range of different models. Available in 2 different line-up these heads can be used for drilling or milling and collect capacity up to 6mm.

Also available with high pressure internal coolant from the input spindle.





## Rotazione con **MANDRINO MACCHINA - SLIMLINE.** *Spindle Driven*

### RA-100

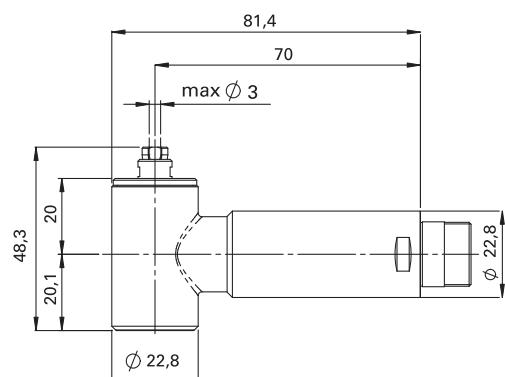
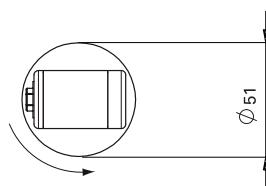
#### Technical data / Dati tecnici

RPM max. input / Max. Velocità input	15.000
Rt. reduction / Rt. in riduzione	1/2,67
Weight / Peso	Kg 3,5

Diameter without tool with RA-100  
Diametro senza utensile con RA-100

RPM max. output  
Max. Velocità output

5.620 rpm



### RA-200

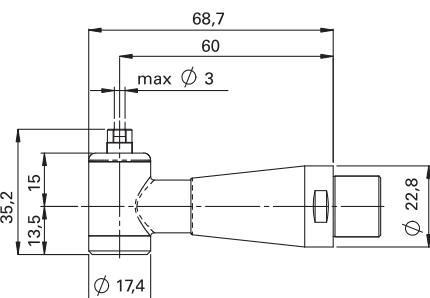
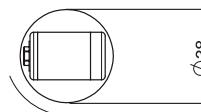
#### Technical data / Dati tecnici

RPM max. input / Max. Velocità input	15.000
Rt. reduction / Rt. in riduzione	1/1,5
Weight / Peso	Kg 3,5

Diameter without tool with RA-200  
Diametro senza utensile con RA-200

RPM max. output  
Max. Velocità output

10.000 rpm



### IC-300

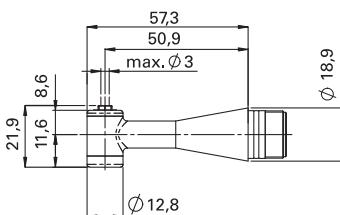
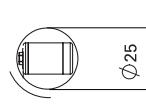
#### Technical data / Dati tecnici

RPM max. input / Max. Velocità input	15.000
Rt. reduction / Rt. in riduzione	3/4
Weight / Peso	Kg 3

Diameter without tool with IC-300  
Diametro senza utensile con IC-300

RPM max. output  
Max. Velocità output

11.250 rpm



### MFC-300 S

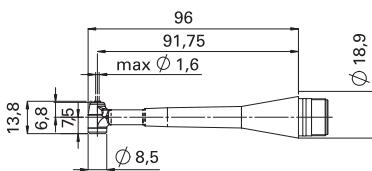
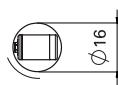
#### Technical data / Dati tecnici

RPM max. input / Max. Velocità input	15.000
Rt. reduction / Rt. in riduzione	1/1
Weight / Peso	Kg 3

Diameter without tool with MFC-300 S  
Diametro senza utensile con MFC-300 S

RPM max. output  
Max. Velocità output

15.000 rpm



#### SPINDLE RUNOUT

Precisione del Mandrino | 0,00008 inch.  
Spindle accuracy | 0,002 mm



#### COOLANT OPTION

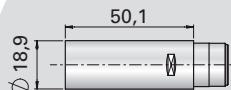
Consentito usare refrigerante esterno durante la lavorazione.

*It is possible to use external coolant during the machining.*

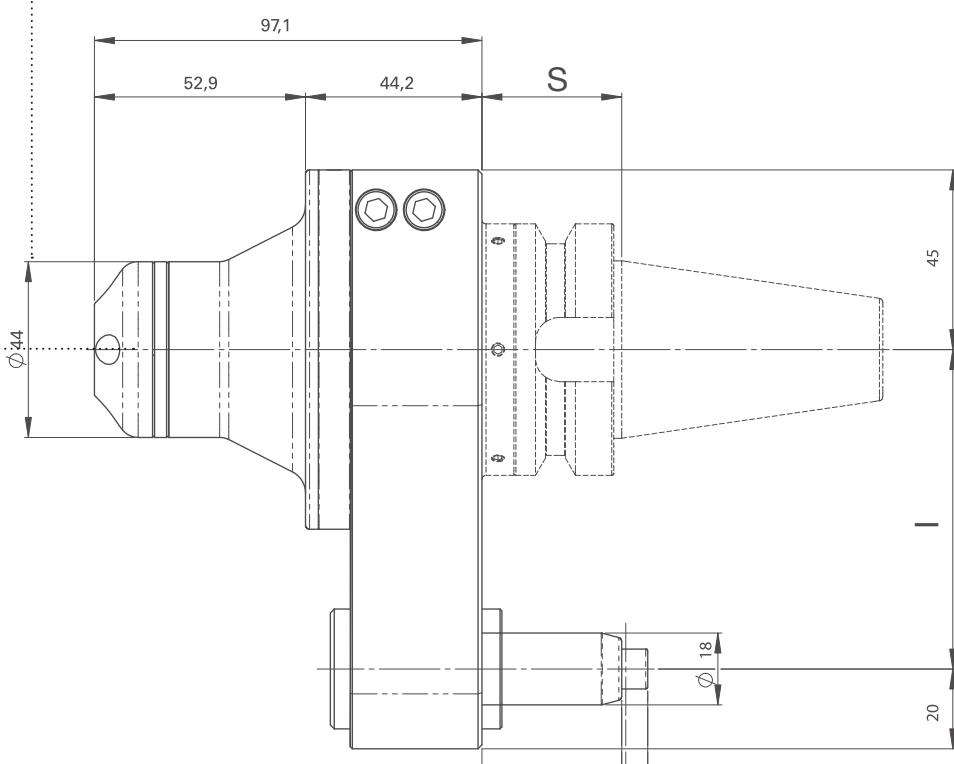


#### COLLET

RA-100 | mm | CH8: Ø 3 mm every 0,1 mm Ø 3mm  
RA-200 | mm |  
CHS: Ø 3mm, 2,35 every 1,6 and Ø 2,35, Ø 3,175  
IC-300 | mm |  
CHC: Ø 3mm, Ø 2,35mm, Ø 1,6 mm, Ø 2,00mm and Ø 3,175 mm  
MFC-300 | mm | K252 Ø 1,6mm

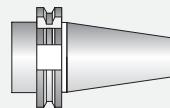
**CN-01**

*Extension between spindle and heads /  
Prolunga da inserire tra il manipolo e la testa*

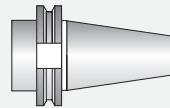


**OPTIONAL DRIVE SHANK\***  
*Non interchangeable input drive shank  
Coni non intercambiabili*

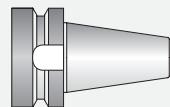
DIN-69871  
ISO 40/50



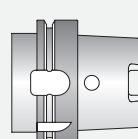
CAT  
40/50



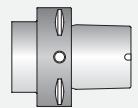
MAS-BT  
40/50



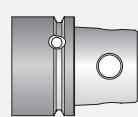
HSK  
63/80/100



CAPTO  
63/80/100



KM  
50/63



Shank / Cono	DIN-69871		CAT		MAS-BT		HSK		CAPTO		KM
Size / Grandezza	40	50	40	50	63-80	100	C5-C6	C8	50-63		
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)
S	35	35	35	41	42	45	38	40	40	40	

\*optional

### ACCESSORIES / ACCESSORI

*Retaining block /  
Tassello di ritegno /  
Stop-Block*



	RA-100	RA-200	IC-300	MFC-300
Retaining block / Tassello di ritegno	Ø 18 mm	Ø 18 mm	Ø 18 mm	Ø 18 mm
Extension / Prolunga	CN-01	CN-01	CN-01	CN-01

*NOT INCLUDED / NON INCLUSO*

# Linea ULTRASLIM.

## Ultraslim Line

### Technical data

Caratteristiche tecniche

 Ratio  
Rapporto  
**1:4 SPEEDER**

 RPM  
Velocità  
**10.000 min<sup>-1</sup>** | DRY  
Running  
**6.000 min<sup>-1</sup>**

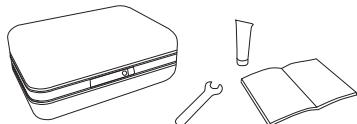
 Max. axial load  
Max. carico assiale  
**150 N**

 Torque  
Momento torcente  
**4 Nm**

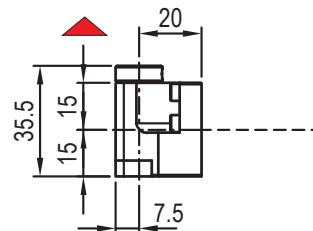
 Weight  
Peso  
**7.3 kg**

 Collet  
Pinza  
**WELDON 4mm / 5mm**  
**M4**

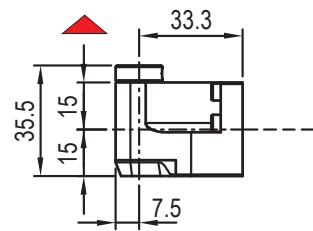
\* STANDARD EQUIPMENT  
includes:



**DH-001**

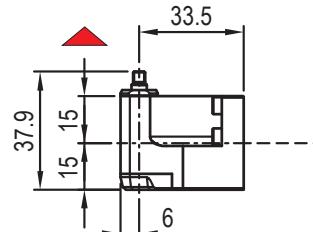


**DH-002**

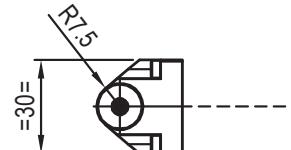


**DH-003**

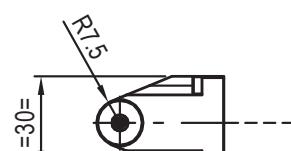
Utensili speciali  
Special cuttingtool



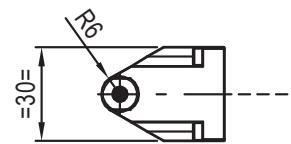
**DH-001**



**DH-002**



**DH-003**



### Option / Opzione



bar max  
**100**

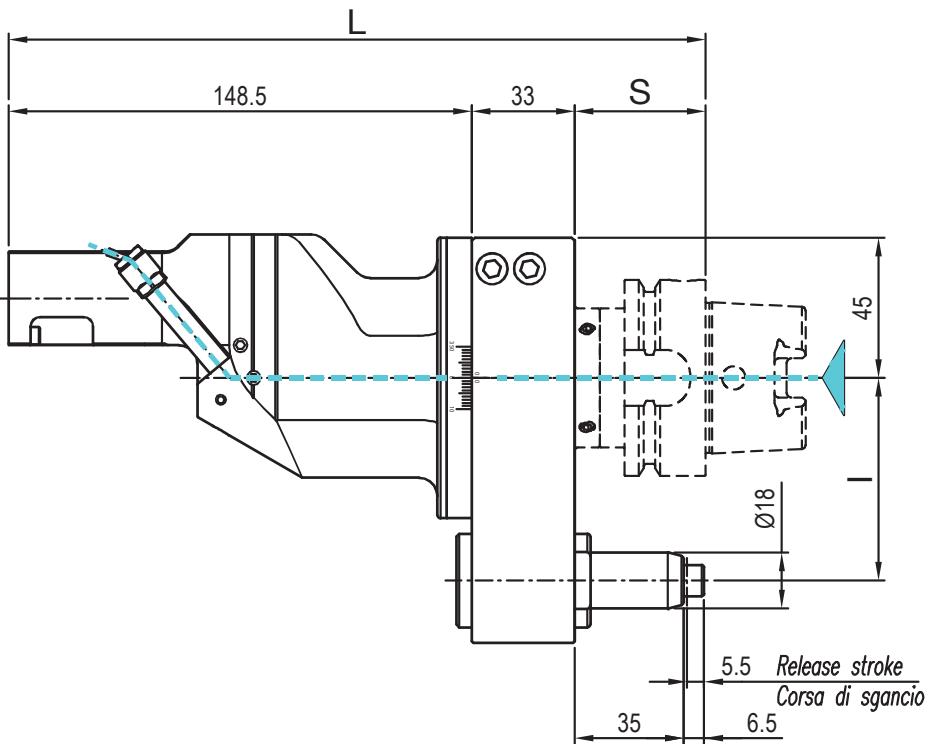
Coolant through flange and output spindle  
Refrigerante attraverso la flangia e il mandrino di uscita



bar max  
**12**

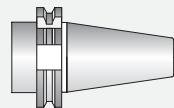
Coolant through pin  
Refrigerante attraverso il perno

## TR90CN-0.25DH

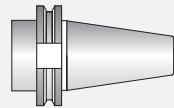


**OPTIONAL DRIVE SHANK\***  
Non interchangeable input drive shank  
Coni non intercambiabili

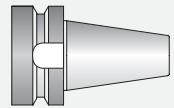
DIN-69871  
ISO 40/50



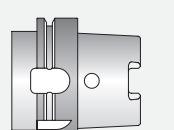
CAT  
40/50



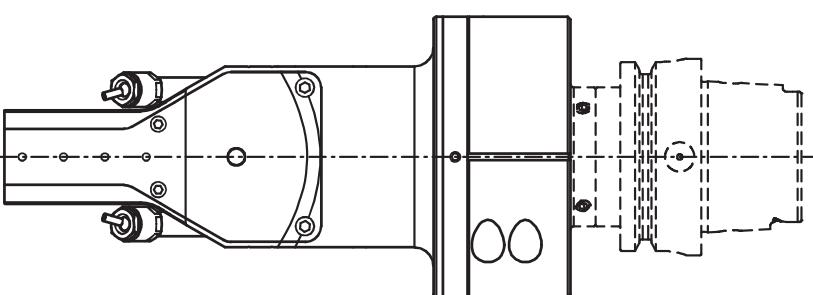
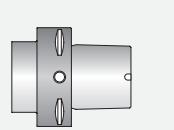
MAS-BT  
40/50



HSK  
63/80/100



CAPTO  
63/80/100



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Spindle / Cono	DIN-69871	CAT	MAS-BT		HSK		CAPTO	
Size / Grandezza	40	50	40	50	63-80	100	C5-C6	C8
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110	80-(110*)	80-110
S	35	35	35	41	42	45	38	40
L	216.5	216.5	216.5	222.5	223.5	226.5	219.5	221.5

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional



## TR90CN-0.25US

### Technical data

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:2 SPEEDER**



**RPM**  
Velocità  
**10.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**100 N**



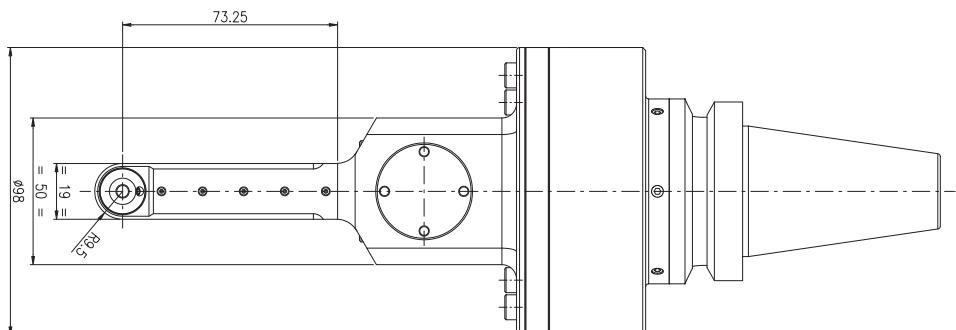
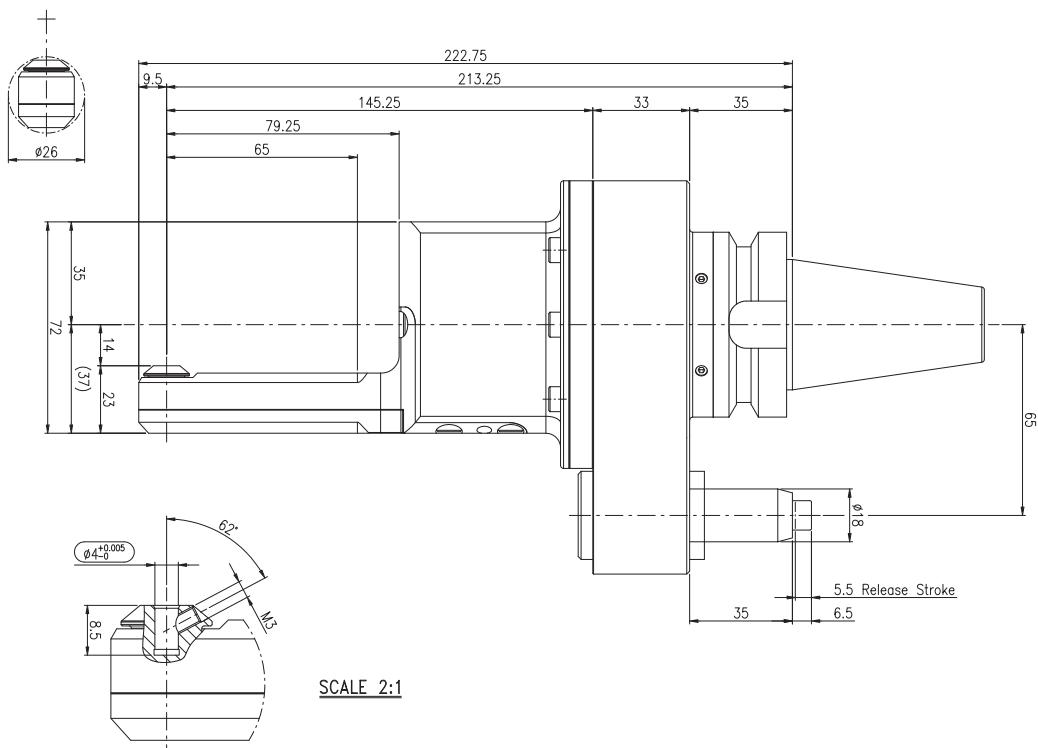
**Torque**  
Momento torcente  
**4 Nm**



**Weight**  
Peso  
**7 kg**



**Collet**  
Pinza  
**WELDON 4mm / 5mm**



### Option / Opzione



bar max  
**100**

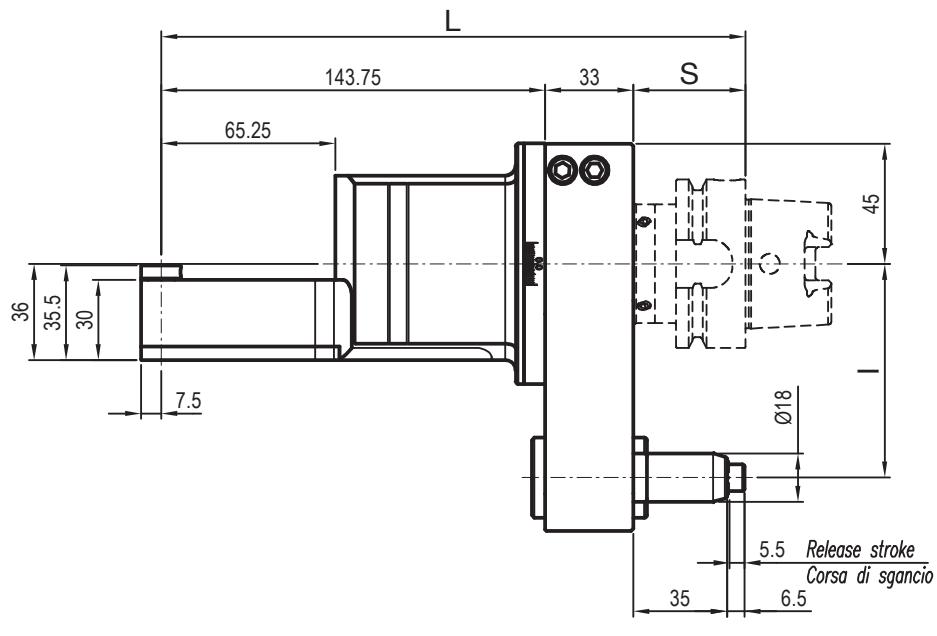
Coolant through flange and output spindle  
Refrigerante attraverso la flangia e il mandrino di uscita



bar max  
**12**

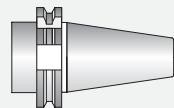
Coolant through pin  
Refrigerante attraverso il perno

## TR90CN-0.25US

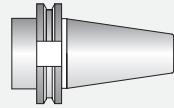


**OPTIONAL DRIVE SHANK\***  
Non interchangeable input drive shank  
Coni non intercambiabili

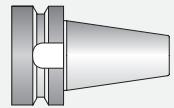
DIN-69871  
ISO 40/50



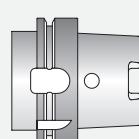
CAT  
40/50



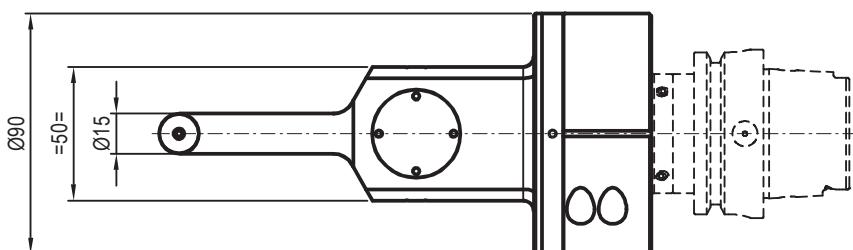
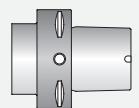
MAS-BT  
40/50



HSK  
63/80/100



CAPTO  
63/80/100



Spindle / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO
Size / Grandezza	40	50	40	50	63-80
I	65-80-(110*)	80-110	65-80-(110*)	80-110	80-110
S	35	35	35	41	42
				45	45
				38	38
				40	40

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional



## LINEA ALUMINUM



Le teste della **linea Aluminium** sono state studiate con **materiali più leggeri e con dimensioni esterne ridotte** in modo da contenere al massimo il peso, pur mantenendo le caratteristiche di qualità e affidabilità tipici delle teste Alberti. Le teste della linea Aluminium sono particolarmente **adatte ad essere montate su macchine leggere e di piccole dimensioni** con coni ISO BT 30 e 40 che hanno una limitazione di peso al cambio utensile.

Sulla serie BT 40, è possibile montare il **nuovo sistema di cambio rapido SMART CHANGE**.

- **Corpo in alluminio** per limitare il peso
- **Dimensioni ridotte** per essere montate su macchine più piccole
- Possibilità di **refrigerante interno**
- **Alta velocità** fino a 10.000RPM
- **Stop block personalizzato** a seconda della macchina per una facile installazione.

The heads of the **series Aluminum** have been developed with **lighter materials and reduced overall dimensions** compared to the standard offering, in order to reduce the weight as much as possible, thus keeping the same characteristics of quality and reliability. The line of heads are suitable for all those lighter and smaller machines with ISO BT 30 and 40 whose toolchanger can only handle limited weight.

For the BT 40 heads customer can mount our **new quick change system, Smart change**.

- **Aluminum body** for significant weight reduction
- **Reduced overall dimensions** to be mounted on smaller machines
- Possibility of **internal coolant**
- **High speed** up to 10.000RPM
- **Customized stop block** for different machine type for an easy installation.

## Customizzazione **STOP BLOCK.**

Per macchine BT-30 / For BT-30 machines

FANUC ROBODRILL



59516006

I 65  
P 24

BROTHER S2D



59516003

I 80  
P 24

BROTHER TC-32



59516008

I 80  
P 30

BROTHER R450X1



59516009

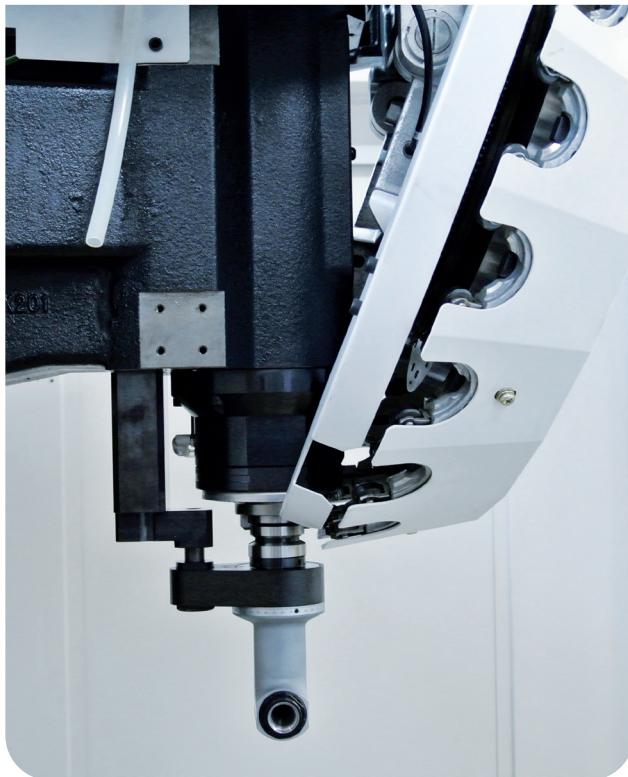
I 50  
P 24

BROTHER S500 S700 S1000



59516010

I 80  
P 25,75



DMG MORI MILLTAP 700 - DMP70



59516007

I 65  
P 24

# T90cn-0.5M ALUMINUM

## ACT9005C.ALU

**Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**10.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**120 N**



**Torque**  
Momento torcente  
**8 Nm**



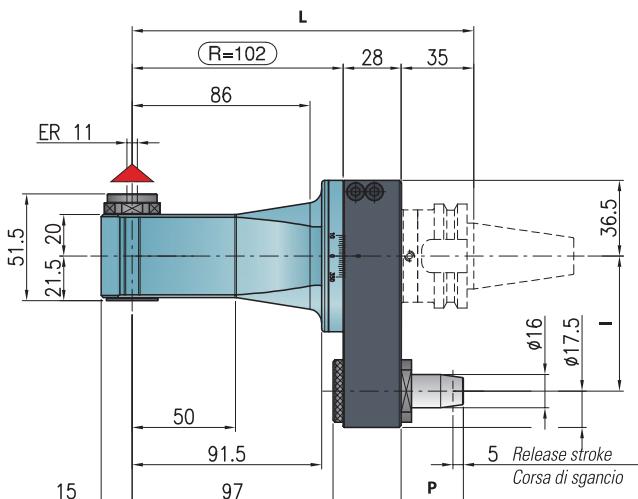
**Weight**  
Peso  
**2.7 kg**



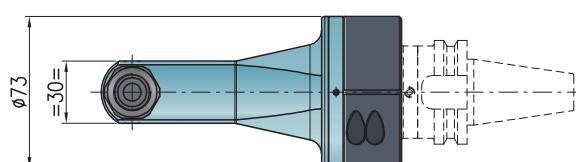
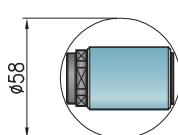
**Collet**  
Pinza  
**ERAX-11 (ø 0,5/7 mm)**



**Shank**  
Cone  
**ISO 30 DIN-69871/  
BT-30**

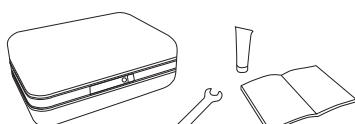
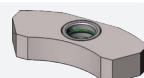


Minimum diameter without tool  
Diametro minimo senza utensile


**\* STANDARD EQUIPMENT**  
includes:

Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO



Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino

	FANUC ROBODRILL	BROTHER S2D	BROTHER TC-32	BROTHER R450X1	BROTHER S500 S700 S1000	DMG MORI MILLTAP 700
<b>I</b>	65	80	80	50	80	65
<b>P</b>	24	24	30	24	25,75	24
<b>L</b>	165	165	165	165	165	165

Dual contact spindles available / Disponibilità coni a doppio contatto

## Option / Opzione



## AIR/OIL

Air / Oil lubrication  
Lubrificazione aria / olio



bar max

12

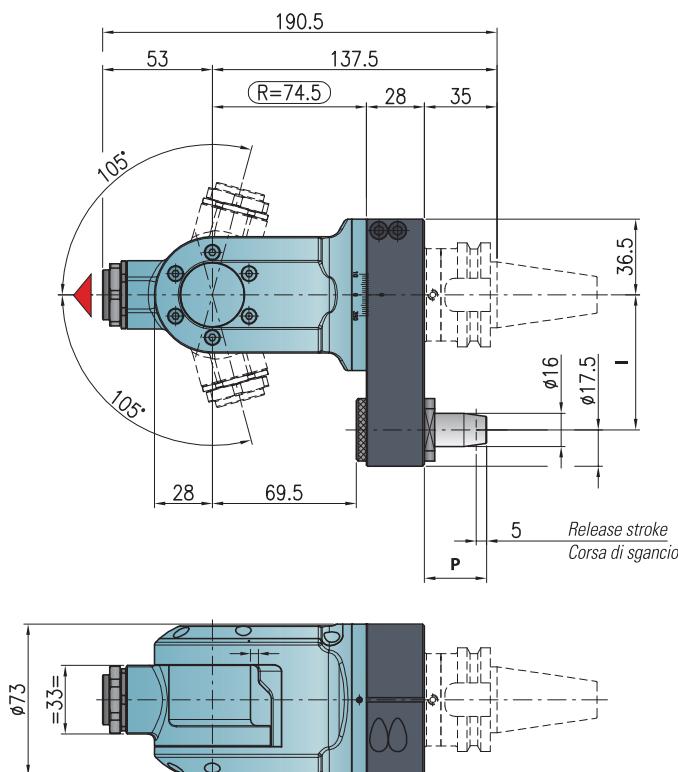
Coolant through pin  
Refrigerante attraverso il perno

# TCUcn-0.5M ALUMINUM

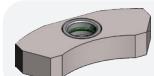
## ACTCU05C.ALU

### Technical data

Caratteristiche tecniche



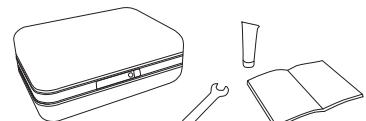
	Ratio Rapporto <b>1:1.5 SPEEDER</b>
	RPM Velocità <b>6.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>215 N</b>
	Torque Momento torcente <b>8 Nm</b>
	Weight Peso <b>2.8 kg</b>
	Collet Pinza <b>ERAX-11 (Ø 0,5/7 mm)</b>
	Shank Cono <b>ISO 30DIN-69871/ BT-30</b>



Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**

\* **STANDARD EQUIPMENT**  
includes:



Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino

	FANUC ROBODRILL	BROTHER S2D	BROTHER TC-32	BROTHER R450X1	BROTHER S500 S700 S1000	DMG MORI MILLTAP 700
I	65	80	80	50	80	65
P	24	24	30	24	25,75	24

Dual contact spindles available / Disponibilità coni a doppio contatto

#### Option / Opzione



bar max

12

Coolant through pin  
Refrigerante attraverso il perno

# T90cn-1.5M ALUMINUM

## ACT9015C.ALU

**Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**8.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**250 N**



**Torque**  
Momento torcente  
**15 Nm**



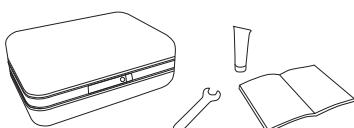
**Weight**  
Peso  
**2.9 kg**



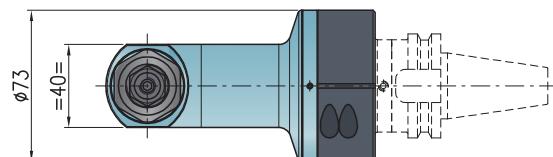
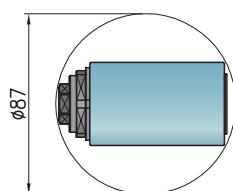
**Collet**  
Pinza  
**ER 16 (ø 1-10 mm)**



**Shank**  
Cone  
**ISO 30 DIN-69871/  
BT-30**

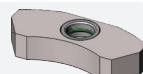
**\* STANDARD EQUIPMENT**  
includes:


Minimum diameter without tool  
Diametro minimo senza utensile



Retaining block / Tassello di ritegno / Stop-Block

**NOT INCLUDED - NON INCLUSO**



Internal coolant / Possibilità refrigerante

Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino

	FANUC ROBODRILL	BROTHER S2D	BROTHER TC-32	BROTHER R450X1	BROTHER S500 S700 S1000	DMG MORI MILLTAP 700
<b>I</b>	65	80	80	50	80	65
<b>P</b>	24	24	30	24	25,75	24

Dual contact spindles available / Disponibilità coni a doppio contatto

## Option / Opzione

**AIR/OIL**

Air / Oil lubrication  
Lubrificazione aria / olio



bar max

**40**

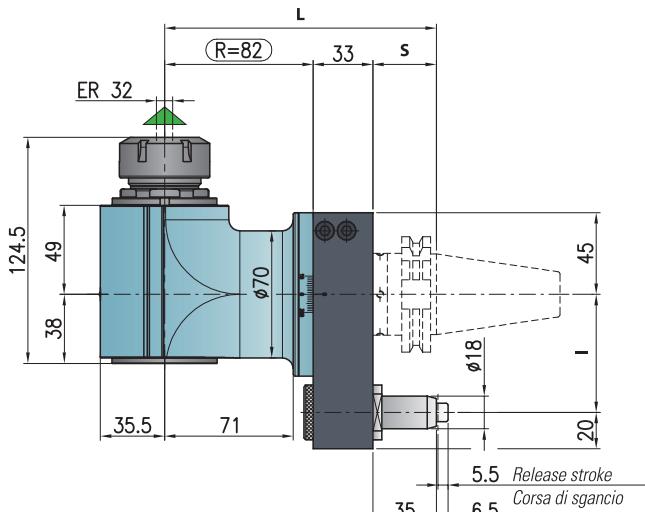
Coolant through spindle  
Refrigerante attraverso il cono

# T90cn-3.5M ALUMINUM

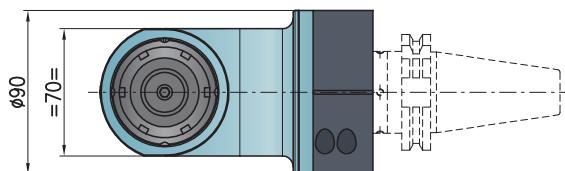
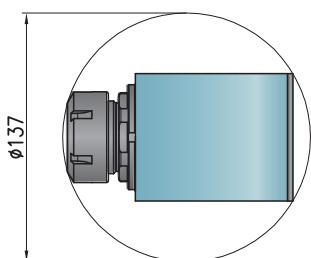
## ACT9035C.ALU

### Technical data

Caratteristiche tecniche



Minimum diameter without tool  
Diametro minimo senza utensile



 Ratio  
Rapporto  
1:1

 RPM  
Velocità  
4.000 min<sup>-1</sup>

 Max. axial load  
Max. carico assiale  
1250 N

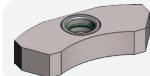
 Torque  
Momento torcente  
40 Nm

 Weight  
Peso  
5.5 kg

 Collet  
Pinza  
ER 32 (φ 2-20 mm)

 Shank  
Cono  
ISO 40DIN-69871/  
BT-40

\* STANDARD EQUIPMENT  
includes:



Retaining block / Tassello di ritegno / Stop-Block

NOT INCLUDED - NON INCLUSO

 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Shank / Cono	DIN-69871	CAT	MAS-BT
Size / Grandezza	40	40	40
I	65-80	80-(110*)	65-80-(110*)
S	35	35	35
L	150	150	150

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

#### Option / Opzione



#### AIR/OIL

Air / Oil lubrication  
Lubrificazione aria / olio



bar max

40

Coolant through spindle  
Refrigerante attraverso il cono



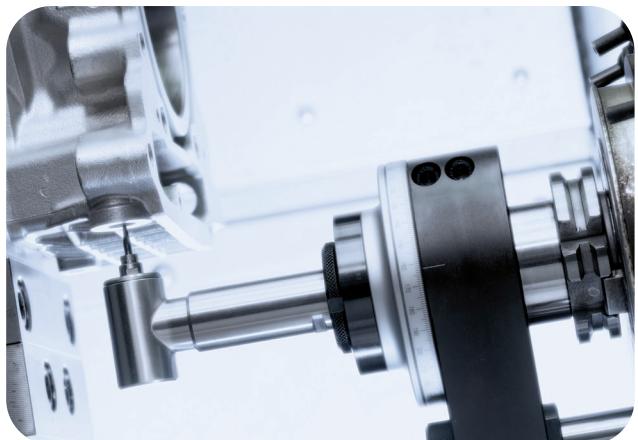
# LINEA HIGH SPEED

## MOLTIPLICATORE. SPINDLE SPEEDER

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MOLTIPLICATORE MECCANICO  
MECHANICAL SPINDLE SPEEDER  
Max 25.000 RPM



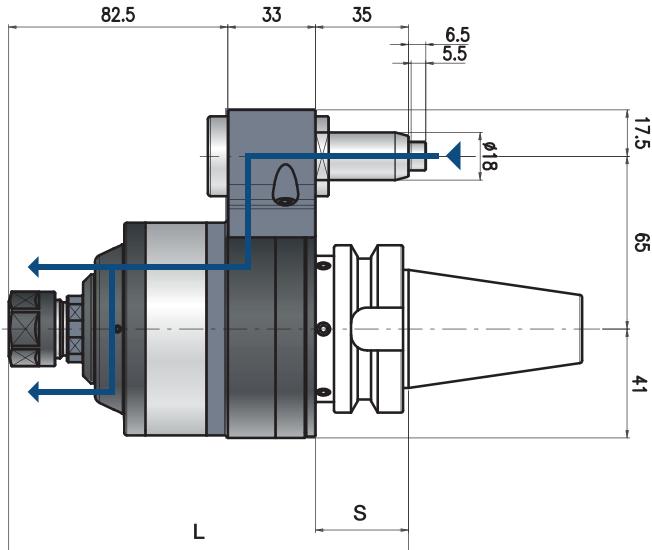
MOLTIPLICATORE AD ARIA  
AIR DRIVEN SPEEDER  
Max 60.000 RPM

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MOLTIPLICATORE  
ELETTRICO  
ELECTROSPINDLE  
Max 80.000 RPM



# MOLTIPLICATORE. SPEEDER



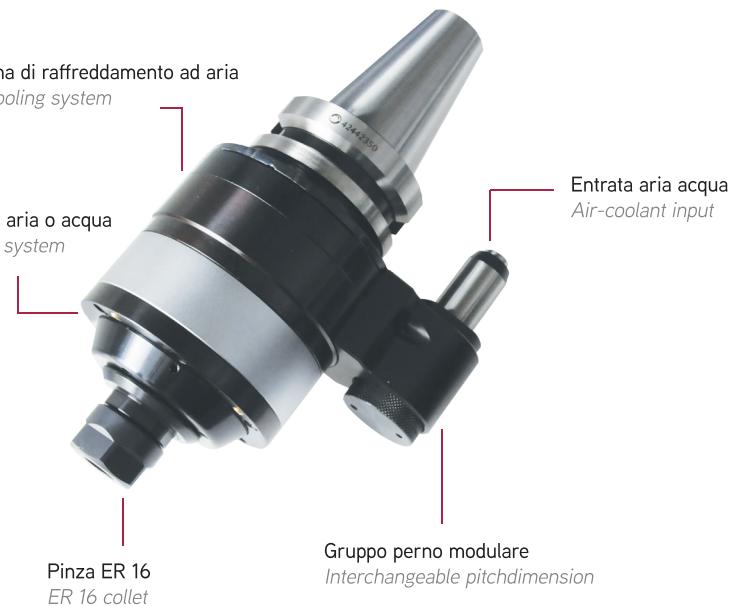
## Technical data

Caratteristiche tecniche

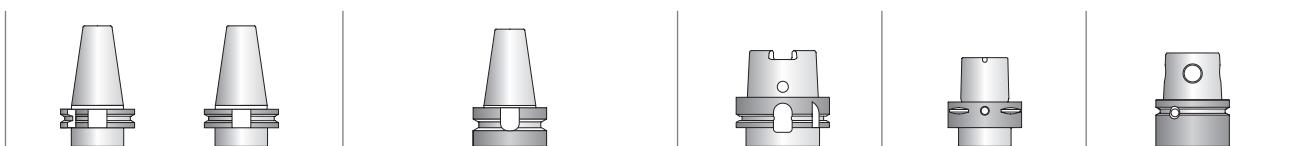
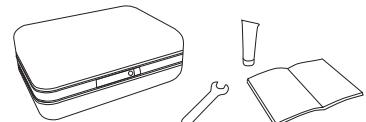
	Ratio Rapporto <b>1:5</b>
	RPM Velocità <b>25.000 min<sup>-1</sup></b>
	Max. axial load Max. carico assiale <b>60 N</b>
	Torque Momento torcente <b>4 Nm</b>
	Weight Peso <b>4 kg</b>
	Collet Pinza <b>ER-16 ø 1/10 mm</b>

Corpo principale con sistema di raffreddamento ad aria  
Main body with air-water cooling system

Fori per raffreddamento ad aria o acqua  
Bores for air-water cooling system



\* STANDARD EQUIPMENT  
includes:



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK		CAPTO		KM
Size / Grandezza	40-50	40-50		63-80	100	C6	C8	63
I	80-100	80-100		80-100	80-100	80-100	80-100	80-100
S	35	41		42	45	38	40	40
L	150.5	156.5		157.5	160.5	153.5	155.5	155.5

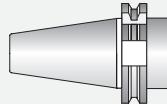
\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

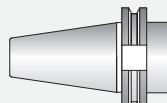


# Teste con MOTORE AD ARIA.

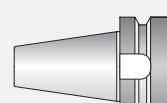
## Air Driven angle heads



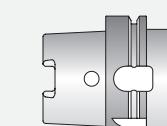
DIN-69871  
ISO 40/50



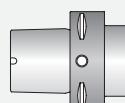
CAT  
40/50



MAS-BT  
40/50

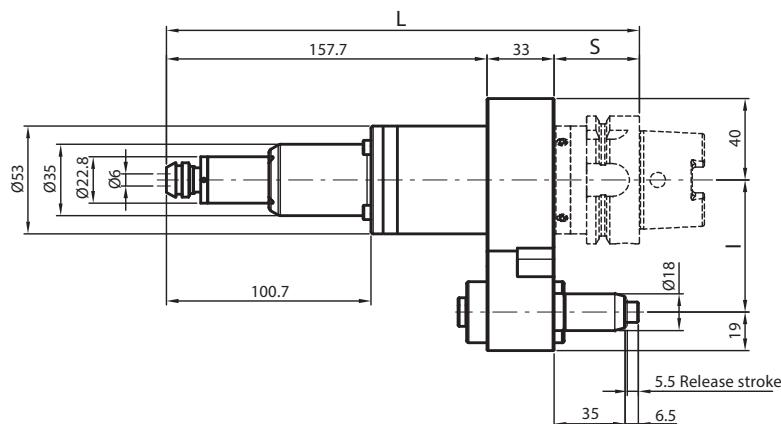


HSK  
63/80/100



CAPTO  
63/80/100

## Turboflex 30.000 RPM AXIAL



## Turboflex 30.000 RPM RADIAL

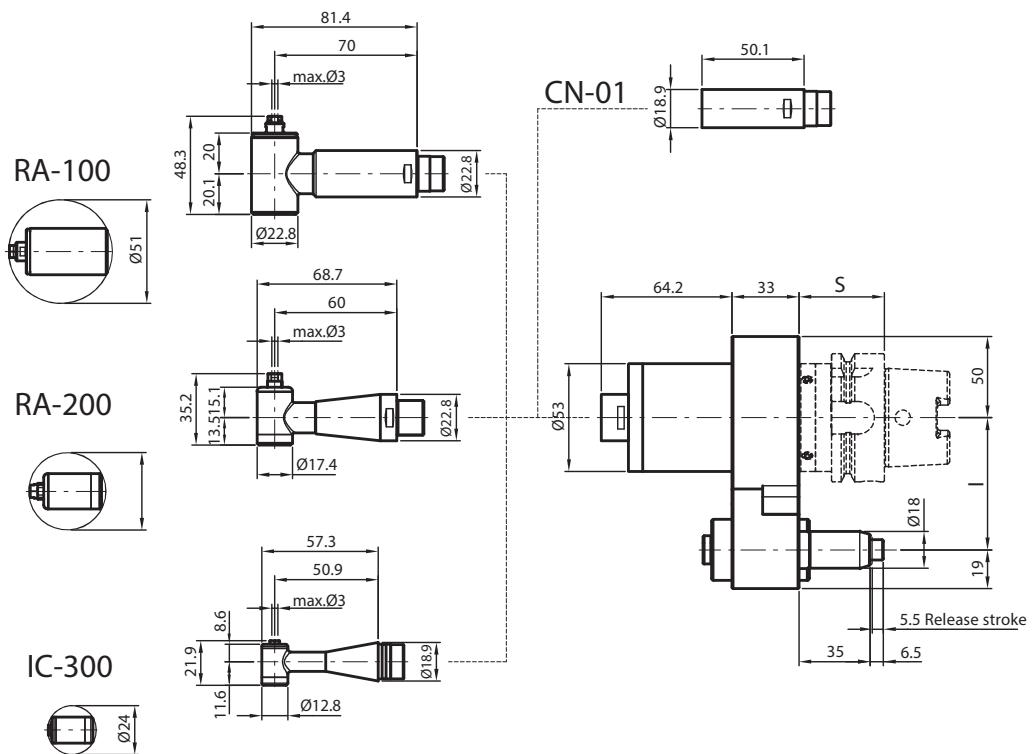


Air line kit / Filtro regolatore aria

Retaining block /  
Tassello di ritegno /  
Stop-Block



NOT INCLUDED / NON INCLUSO



# DATI TECNICI.

## Technical Data

### NR-303

#### Technical data / Dati tecnici

RPM max. / Max. Velocità		min <sup>-1</sup>	30.000 ± 10%
Type motor / Tipo di motore			AM-310
Power / Potenza		W	108
Air pressure / Pressione aria		bar	max. 6 (max. 90 Psi)
Air consumption / Consumo aria		Nl/min	226
Weight / Peso		Kg	4

Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110
S	35	35	35	41	42	38

\*optional

#### COLLET

NR-303

mm

CHK: ø 0,5 - max 6mm every 0,1



#### COOLANT OPTION

Consentito usare refrigerante esterno durante la lavorazione.

*It is possible to use external coolant during the machining.*



#### SPINDLE RUNOUT

Spindle accuracy

Precisione del Mandrino

0,002 mm

0,00008 inch.



#### È severamente vietato far ruotare il mandrino

macchina causa danneggiamento della testa

*It is strictly forbidden to rotate the machine spindle as it may cause damage to the head*

### RA-100

### RA-200

### IC-300

#### Technical data / Dati tecnici

RPM max. / Max. Velocità	min <sup>-1</sup>	30.000 ± 10%	30.000 ± 10%	30.000 ± 10%
Type motor / Tipo di motore		AM-310	AM-310	AM-310
Power / Potenza	W	108	108	108
Air pressure / Pressione aria	bar	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)
Air consumption / Consumo aria	Nl/min	226	226	226
Output RPM / N° Giri in uscita	min <sup>-1</sup>	11.230 ± 10%	20.000 ± 10%	22.000 ± 10%
Rt. reduction / Rt. in riduzione		1/2,67	1/1,5	3/4
Weight / Peso	Kg	4	4	4



#### COLLET

RA-100

mm

CH8: ø 0,8 ø 3 every 0,1 and ø 2,35 - ø 3,175



#### COLLET

RA-200

mm

CH8: ø 0,8 ø 3 every 0,1 and ø 2,35 - ø 3,175



#### COLLET

IC-300

mm

CH8: ø 0,8 ø 3 every 0,1 and ø 2,35 - ø 3,175



#### SPINDLE RUNOUT

Spindle accuracy | 0,002 mm  
Precisione del Mandrino | 0,00008 inch.



#### COOLANT OPTION

Consentito usare refrigerante esterno durante la lavorazione.

*It is possible to use external coolant during the machining.*



#### È severamente vietato far ruotare il mandrino

macchina causa danneggiamento della testa

*It is strictly forbidden to rotate the machine spindle as it may cause damage to the head*

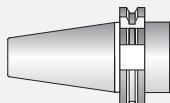
Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-110	80-110
S	35	35	35	41	42	38

\*optional

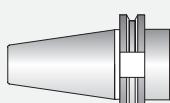
# Teste con MOTORE AD ARIA.

## Air Driven angle heads

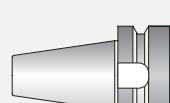
OPTIONAL DRIVE SHANK\*  
Non interchangeable  
input drive shank /  
Coni non intercambiabili



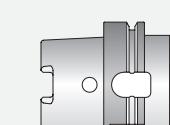
DIN-69871  
ISO 40/50



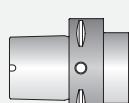
CAT  
40/50



MAS-BT  
40/50

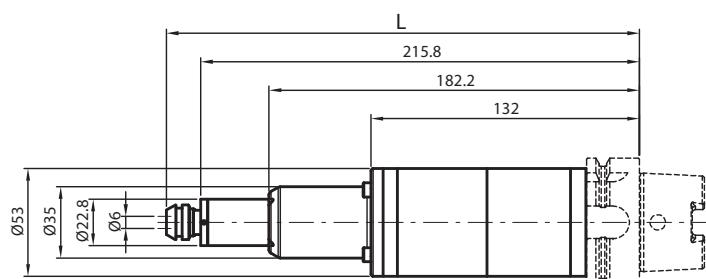


HSK  
63/80/100



CAPTO  
63/80/100

## Turboflex 30.000 RPM AXIAL



## Turboflex 30.000 RPM RADIAL

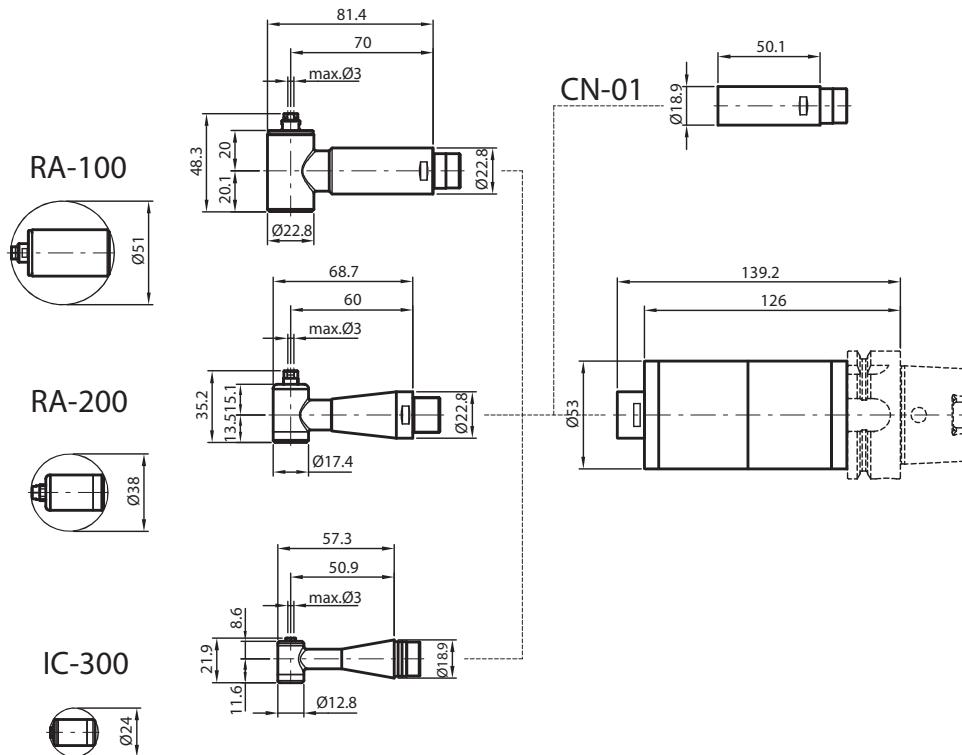
Air line kit / Filtro regolatore aria



Retaining block /  
Tassello di ritegno /  
Stop-Block



NOT INCLUDED / NON INCLUSO



# DATI TECNICI.

## Technical Data

### NR-303

#### Technical data / Dati tecnici

RPM max. / Max. Velocità		min <sup>-1</sup>	30.000 ± 10%
Type motor / Tipo di motore			AM-310
Power / Potenza		W	108
Air pressure / Pressione aria		bar	max. 6 (max. 90 Psi)
Air consumption / Consumo aria		Nl/min	226
Weight / Peso		Kg	4

Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110
S	35	35	35	41	42	38

\*optional

#### COLLET

NR-303

mm

CHK: ø 0,5 - max 6mm every 0,1



#### COOLANT OPTION

Consentito usare refrigerante esterno durante la lavorazione.

*It is possible to use external coolant during the machining.*



#### SPINDLE RUNOUT

Spindle accuracy

Precisione del Mandrino

0,002 mm

0,00008 inch.



#### È severamente vietato far ruotare il mandrino

macchina causa danneggiamento della testa

*It is strictly forbidden to rotate the machine spindle as it may cause damage to the head*

### RA-100

### RA-200

### IC-300

#### Technical data / Dati tecnici

RPM max. / Max. Velocità	min <sup>-1</sup>	30.000 ± 10%	30.000 ± 10%	30.000 ± 10%
Type motor / Tipo di motore		AM-310	AM-310	AM-310
Power / Potenza	W	108	108	108
Air pressure / Pressione aria	bar	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)
Air consumption / Consumo aria	Nl/min	226	226	226
Output RPM / N° Giri in uscita	min <sup>-1</sup>	11.230 ± 10%	20.000 ± 10%	22.000 ± 10%
Rt. reduction / Rt. in riduzione		1/2,67	1/1,5	3/4
Weight / Peso	Kg	4	4	4



#### COLLET

RA-100

mm

CH8: ø 0,8 ø 3 every 0,1 and ø 2,35 - ø 3,175



#### COLLET

RA-200

mm

CH8: ø 0,8 ø 3 every 0,1 and ø 2,35 - ø 3,175



#### COLLET

IC-300

mm

CH8: ø 0,8 ø 3 every 0,1 and ø 2,35 - ø 3,175



#### SPINDLE RUNOUT

Spindle accuracy | 0,002 mm  
Precisione del Mandrino | 0,00008 inch.



#### COOLANT OPTION

Consentito usare refrigerante esterno durante la lavorazione.

*It is possible to use external coolant during the machining.*



#### È severamente vietato far ruotare il mandrino

macchina causa danneggiamento della testa

*It is strictly forbidden to rotate the machine spindle as it may cause damage to the head*

Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
Size / Grandezza	40	50	40	50	63-80	100
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-110	80-110
S	35	35	35	41	42	38

\*optional



# TURBOFLEX con flangia indexata.

## Turboflex with indexing system

Il mandrino può essere posizionato su 360° grazie all'indexaggio dell'asse C della macchina, mentre la rotazione è assicurata dalla presenza del motore ad aria.

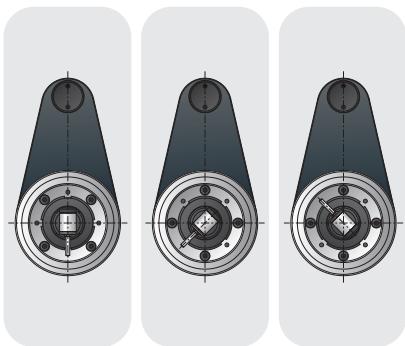
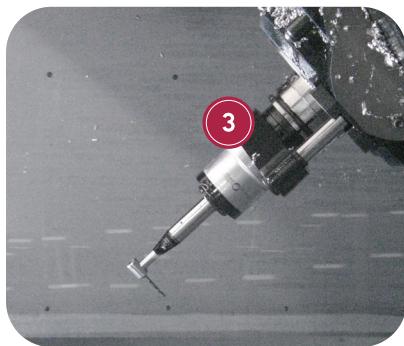
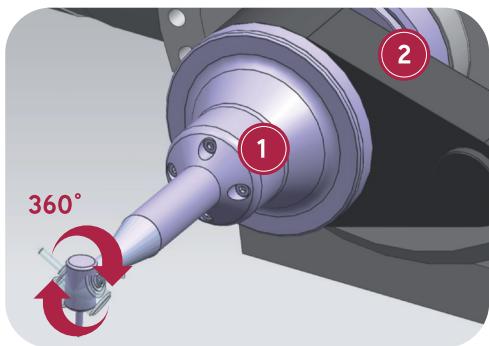
The cutting tool can be positioned over 360 degrees thanks to the indexing of the C axis of the machine while the rotation is given by the air motor mounted inside the head.

**1** Questa parte ruota.  
This portion rotates.

**2** Questa parte resta ferma.  
This portion remains fixed.

**3** L'aria garantisce la rotazione del motore nel corpo.  
Air input from the machine spindle gives the rotation to the motor inside of the body.

Il sistema di indexaggio permette il posizionamento del mandrino su 360°.  
The indexing system allows to self-position the tool without additional positioning.

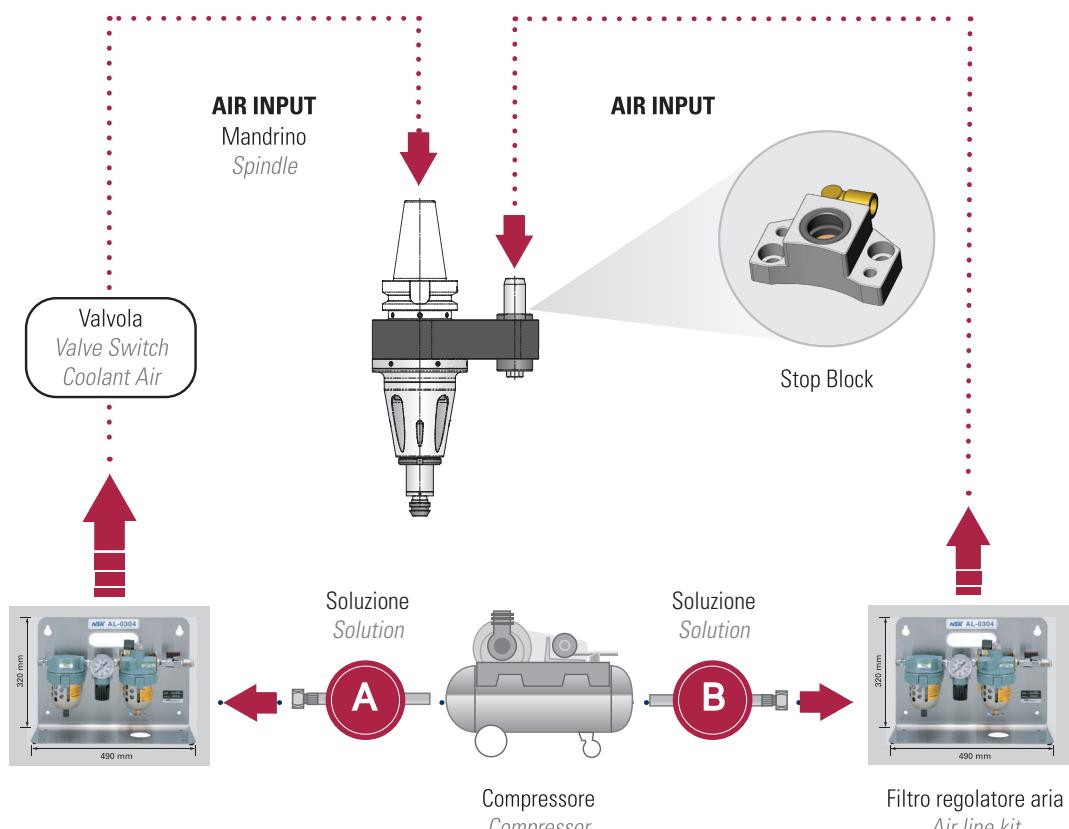


## Come funziona TURBOFLEX. How it works



È severamente vietato far ruotare il mandrino macchina causa danneggiamento della testa.

It is strictly forbidden to rotate the machine spindle as it may cause damage to the head.





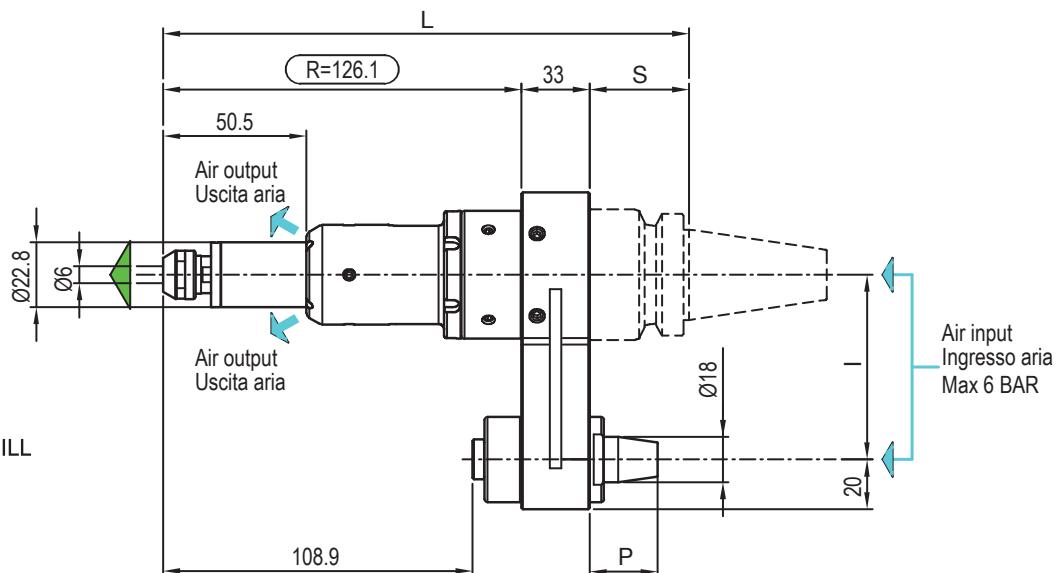


# TURBODRILL NR-303.

Azionamento con motore ad aria / Driven through air motor

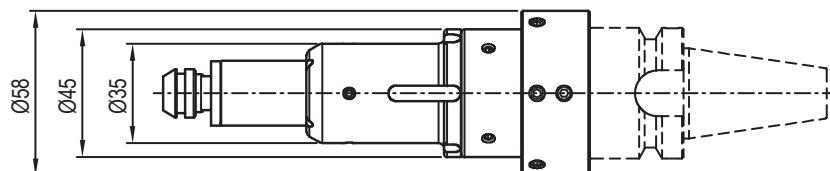


Il mandrino macchina non deve assolutamente girare  
Machine spindle must not rotate



Possibilità di avere TURBODRILL  
senza flangia e perno  
con aria dal cono

Possibility of order TURBODRILL  
without flange and pin  
with air through spindle



Air line kit / Filtro regolatore aria



#### STANDARD EQUIPMENT INCLUDES:

- Testa / Manopolo NAKANISHI / Pinza Ø 3 mm / Chiavi di servizio / Libro istruzioni / Bauletto
- NAKANISHI Kit / Angle head / Collet Ø 3 mm / Wrenches / Instruction book / Case

## PERFORMANCE / PRESTAZIONI

**NR-303**

#### Technical data / Dati tecnici

RPM max. / Max. Velocità	min <sup>-1</sup>	30.000 ± 10%
Type motor / Tipo di motore		AM-310
Power / Potenza	W	108
Air pressure / Pressione aria	bar	max. 6 (max. 90 Psi)
Air consumption / Consumo aria	Nl/min	226
Weight / Peso	Kg	4



#### COLLET

NR-303

mm

CHK: Ø 0,5 - max 6mm every 0,1



#### COOLANT OPTION

Consentito usare refrigerante esterno  
durante la lavorazione.

*It is possible to use external coolant  
during the machining.*

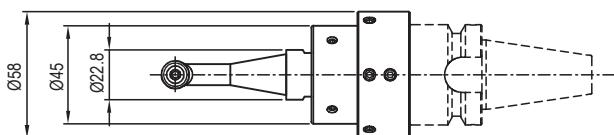
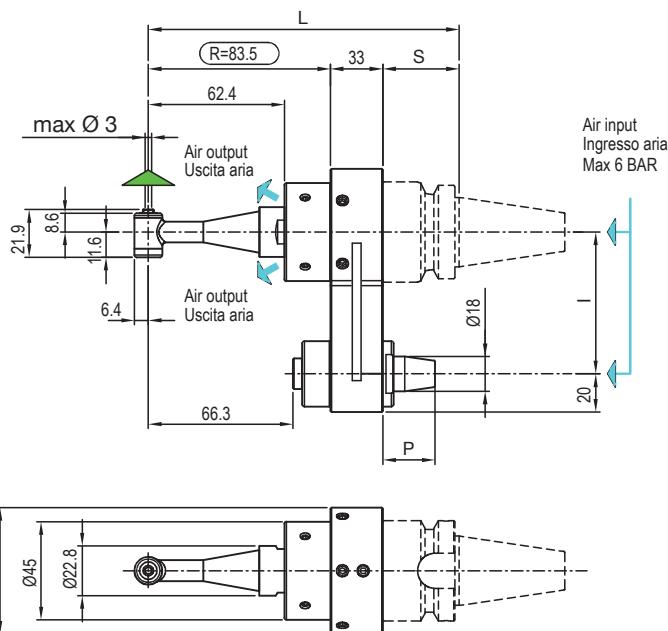
# TURBODRILL

Azionamento con motore ad aria / Driven through air motor

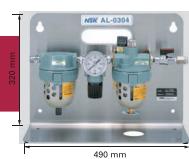


Il mandrino macchina non deve assolutamente girare  
Machine spindle must not rotate

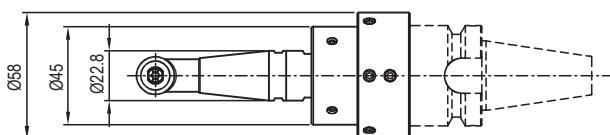
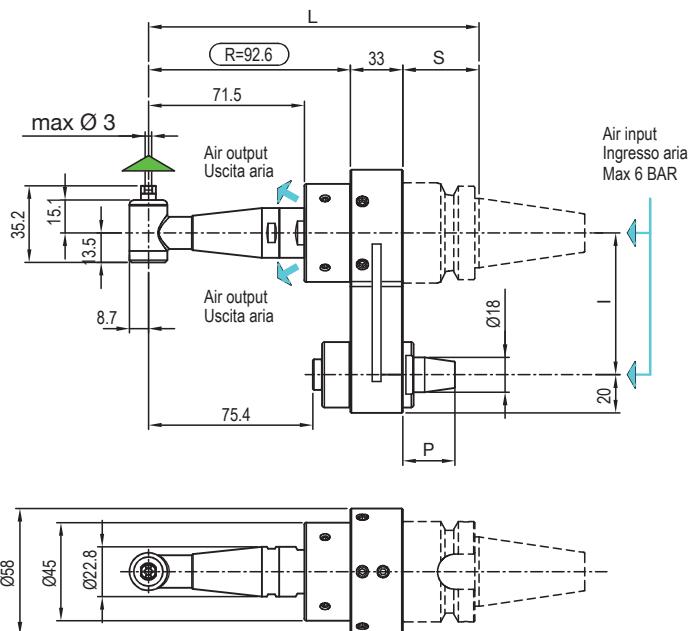
## Turbodrill RADIALE IC 300 NEO



Air line kit / Filtro regolatore aria



## Turbodrill RADIALE RA 200 NEO



### STANDARD EQUIPMENT INCLUDES:

- Testa / Manopolo NAKANISHI / Pinza Ø 3 mm / Chiavi di servizio / Libro istruzioni / Bauletto
- NAKANISHI Kit / Angle head / Collet Ø 3 mm / Wrenches / Instruction book / Case

## PERFORMANCE / PRESTAZIONI

**IC-300**

**RA-200**

### Technical data / Dati tecnici

RPM max. / Max. Velocità	min <sup>-1</sup>	30.000 ± 10%	30.000 ± 10%
Type motor / Tipo di motore		AM-310	AM-310
Power / Potenza	W	108	108
Air pressure / Pressione aria	bar	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)
Air consumption / Consumo aria	Nl/min	226	226
Output RPM / N° Giri in uscita	min <sup>-1</sup>	22.000 ± 10%	20.000 ± 10%
Rt. reduction / Rt. in riduzione		3/4	1/1,5
Weight / Peso	Kg	4	4



### COLLET

RA-200  
mm  
CH8: ø 0,8 ø 3 every 0,1  
and ø 2,35 - ø 3,175



### COLLET

IC-300  
mm  
CH8: ø 0,8 ø 3 every 0,1  
and ø 2,35 - ø 3,175



### COOLANT OPTION

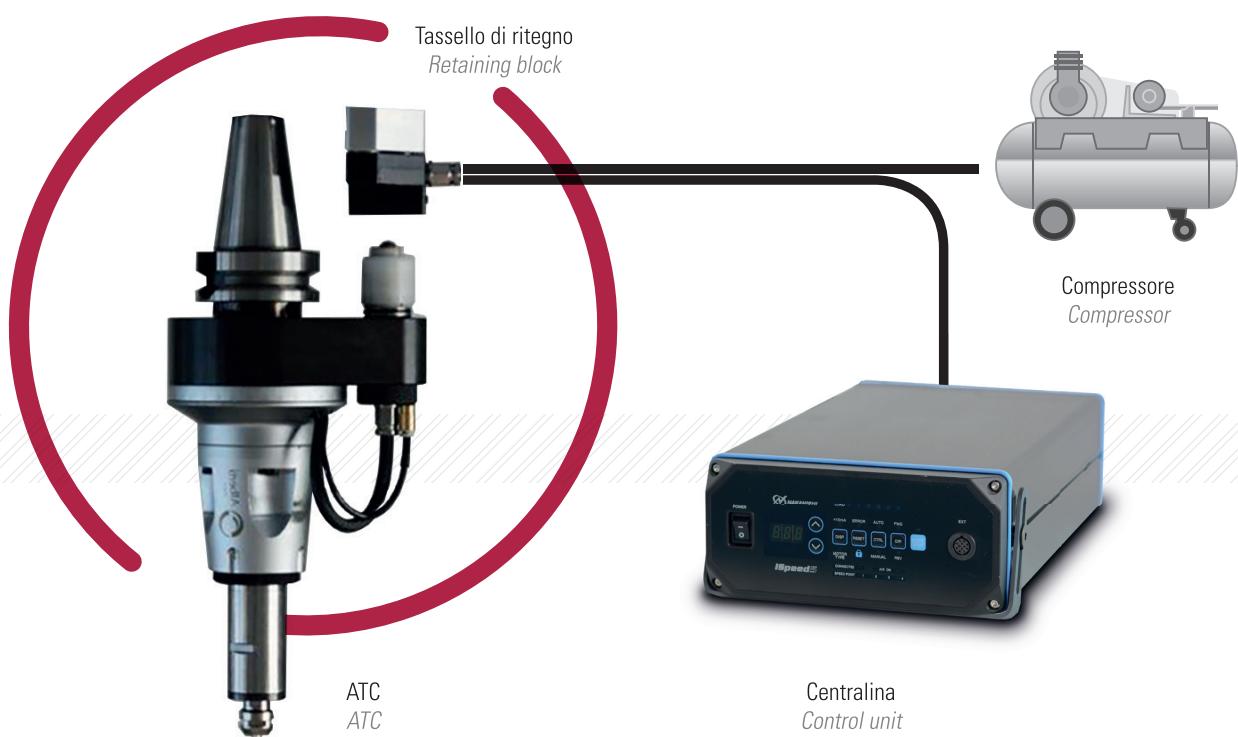
Consentito usare refrigerante esterno  
durante la lavorazione.  
It is possible to use external coolant  
during the machining.

# LINEA HIGH SPEED *LEONARDO SYSTEM*

**Leonardo** è un elettromandrino con cambio utensile automatico che viene montato sul mandrino macchina tramite Stop Block – da cui prende l'alimentazione – per poi essere scambiato automaticamente nel magazzino utensile. I grossi vantaggi sono la possibilità di regolare la velocità fino a 80.000RPM, l'integrazione completa con la macchina.

*Leonardo System* is an electrospindle with automatic tool change suitable to be mounted on the machine spindle with a Stop Block connected to the controller unit and power supply. Leonardo can be easily exchanged by the toolchanger and the main advantages are the possibility to adjust the RPM up to 80.000RPM and the interface with the machine.

## Schema di MONTAGGIO. Assembly Scheme



# Leonardo **PLUS.**

## Leonardo System's Plus



Motori brushless a corrente continua che garantiscono una maggior durata e non necessitano di manutenzione

*Brushless DC motors for longer duty cycle with no maintenance needed*



Velocità fino a 80.000 RPM regolabile

*Adjustable speed up to 80.000 RPM*



Tassello con contatti elettrici completamente protetti da trucioli e completamente pressurizzato - Inclusi 10 mt di cavo

*Stop Block with electric contacts completely protected from chips and pressurized - 10 mt cable included*



Centralina Nakanishi con regolazione di giri e sensore per arresto mandrino

*Nakanishi controller unit with adjustable RPM and sensor to stop machine spindle*



Nessuna dilatazione termica

*No thermal growth*



Cuscinetti ceramici per una miglior tenuta e precisione di lavorazione

*Ceramic bearings for a better performance and precision during machining*



Completemente integrato alla macchina utensile tramite codici M

*Completely integrated with the machine tool with M code*



Gestisce: START & STOP – Variazione RPM – WARNING e segnali allarme – senso di rotazione

*It can control: START & STOP signal – RPM adjustment – Warning and error signal – direction of rotation*



Sistema di frizione interna per prevenire danni al motore e al mandrino macchina

*Internal friction to prevent damage to the motor and machine spindle*



RUN OUT 1 MICRON



# ELETTROMANDRINO LEONARDO SYSTEM

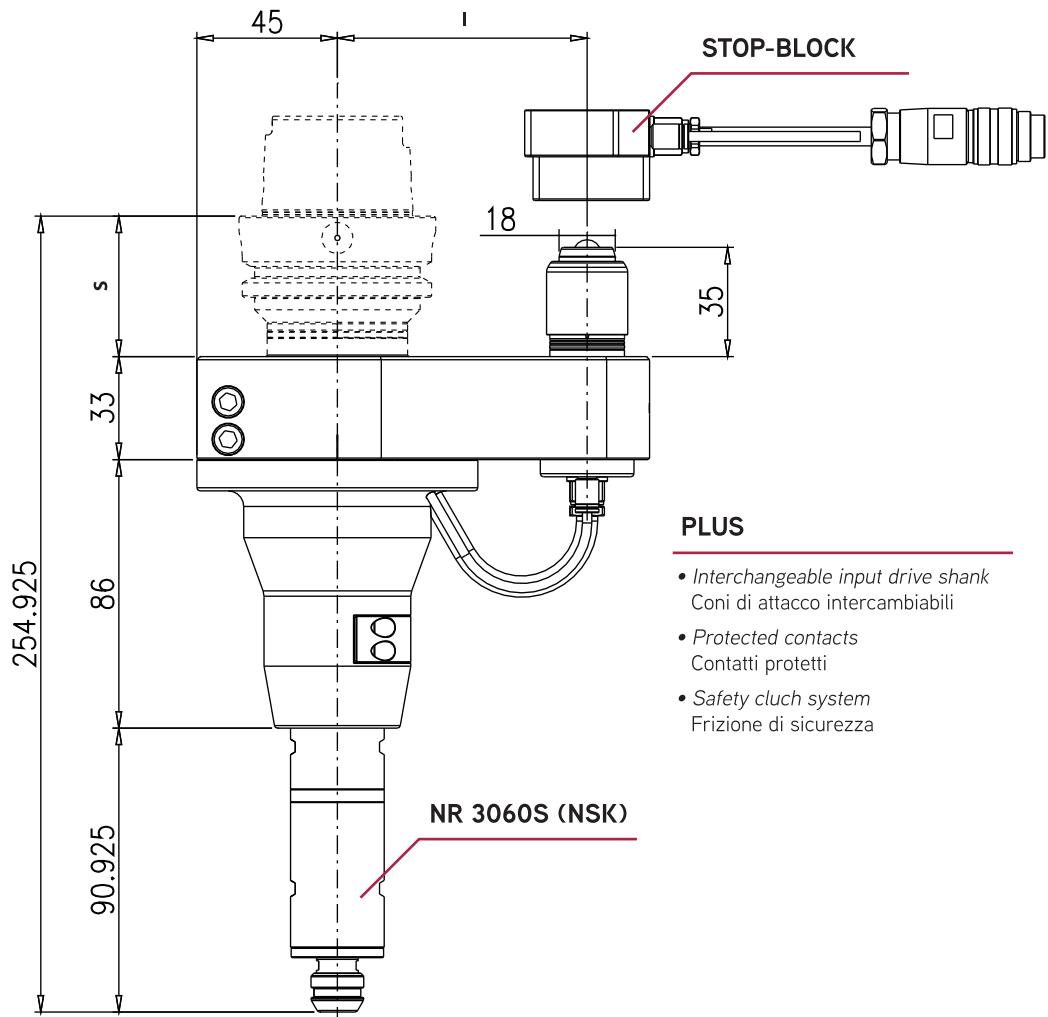
## ELECTROSPINDLE ATC 60

**Technical data**

Caratteristiche tecniche

	Power Potenza <b>350 Watt</b>
	RPM up to Velocità fino a <b>60.000/80.000 min<sup>-1</sup></b>
	Weight Peso <b>4.8 kg</b>
	Collet Pinza <b>6 mm CHK</b> <b>ø 0,8 - ø 6 mm</b>
	Spindle accuracy Precisione <b>0,002 mm</b>
	Controller unit Centralina <b>ISPEED5</b>

\* STANDARD EQUIPMENT  
includes:

**PLUS**

- Interchangeable input drive shank  
Coni di attacco intercambiabili
- Protected contacts  
Contatti protetti
- Safety clutch system  
Frizione di sicurezza



***It is strictly forbidden to rotate the machine spindle as it may cause damage to the head***  
È severamente vietato far ruotare il mandrino macchina causa danneggiamento della testa

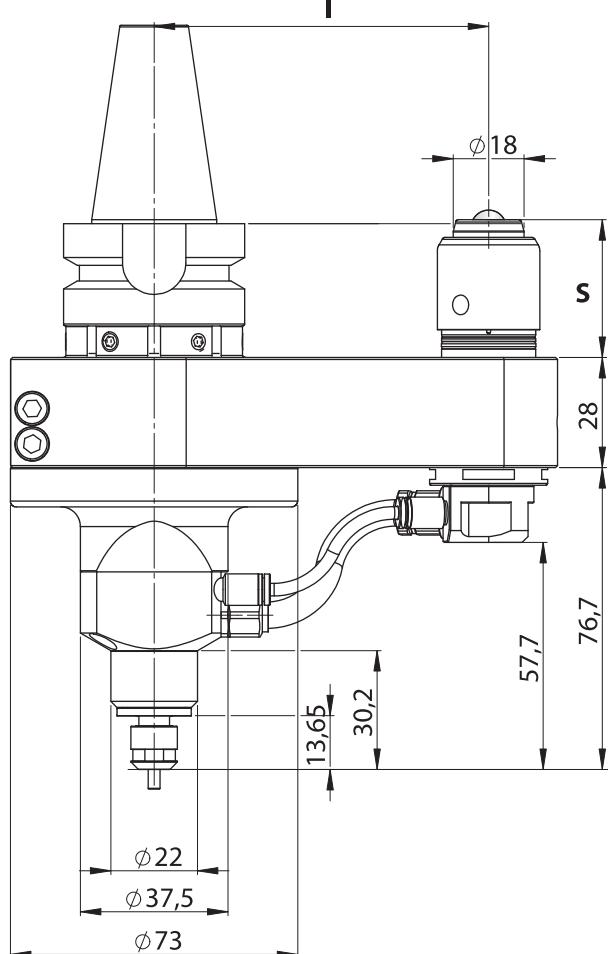
	DIN-69871	CAT	MAS-BT	HSK		CAPTO		KM
Shank / Cono				63-80	100	C6	C8	63
Size / Grandezza	50	50		80-110	80-110	80-110	80-110	80-110
I	80-110	80-110		42	42	45	38	40
S	35	42				40	40	
L	160	166		167	170	163	165	165

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili

# ELETTROMANDRINO LEONARDO ELECTROSPINDLE ATC 80 SYSTEM



## PLUS

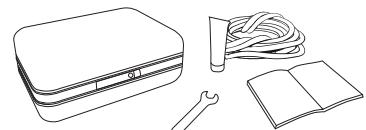
- Interchangeable input drive shank  
Coni di attacco intercambiabili
- Protected contacts  
Contatti protetti
- Safety clutch system  
Frizione di sicurezza

## Technical data

Caratteristiche tecniche

	Power Potenza 130 Watt
	RPM up to Velocità fino a 60.000/80.000 min <sup>-1</sup>
	Weight Peso 3 kg
	Collet Pinza 4 mm CHA Ø 0,8 - Ø 4 mm)
	Spindle accuracy Precisione 1 µ
	Controller unit Centralina ISPEED3

\* STANDARD EQUIPMENT  
includes:



**It is strictly forbidden to rotate the machine spindle as it may cause damage to the head**  
È severamente vietato far ruotare il mandrino macchina causa danneggiamento della testa



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK		CAPTO		KM
Size / Grandezza	50	50		63-80	100	C6	C8	63
I	80-110	80-110		80-110	80-110	80-110	80-110	80-110
S	35	42		42	45	38	40	40
L	160	166		167	170	163	165	165

Dual contact spindles available / Disponibilità coni a doppio contatto

\*optional

Non interchangeable input drive shank / Coni di attacco non intercambiabili



# ACCESSORI.

## Accessories



**GHIERA**  
Clamping nut



**PINZA**  
Collet



**DISCHETTO DI TENUTA**  
Sealing disk

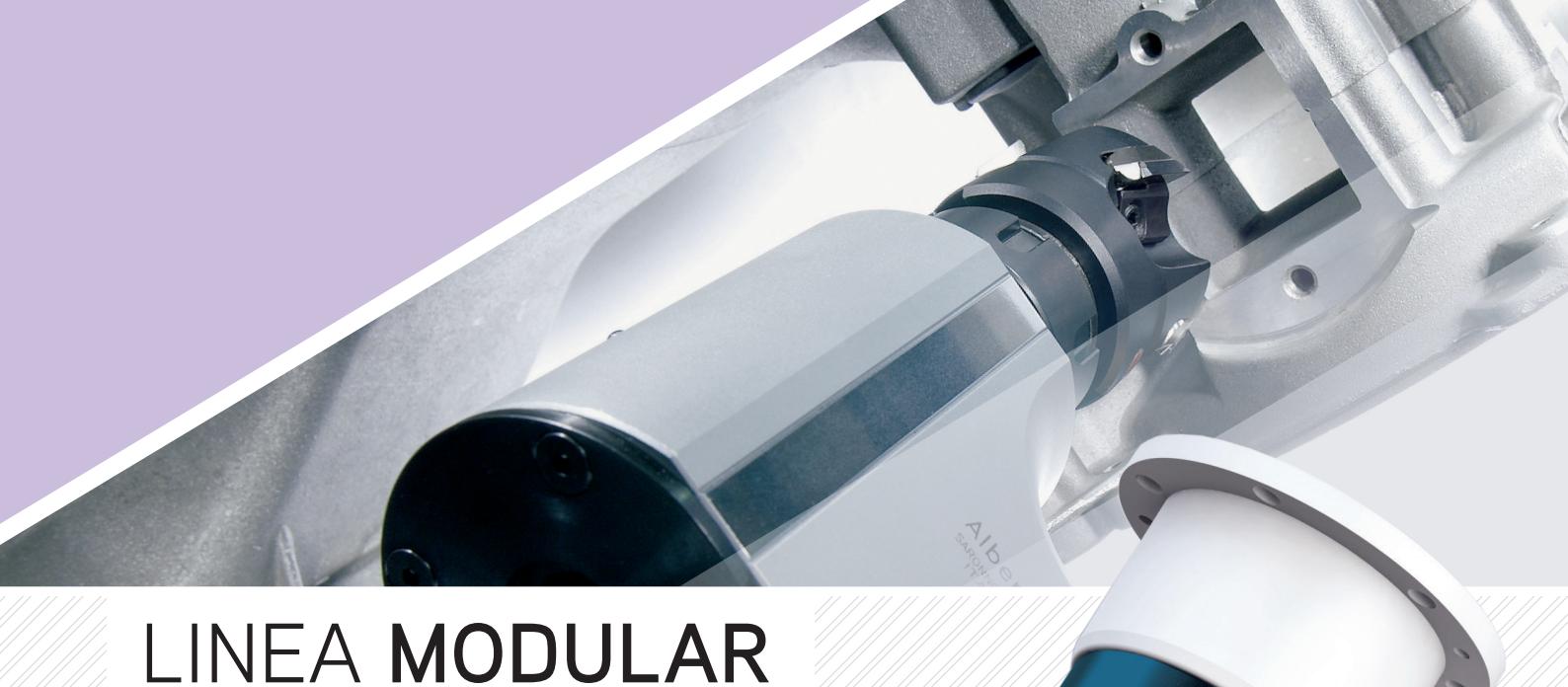


**CHIAVE PER**  
Pin wrench



**CHIAVE DI**  
Contrasto  
Spanner

ER-8 Serie 0.4	ER-8 M	0,5 - 5,0	0,5 mm			30930800	40941700
	33212080			Ø Serraggio min   max	Incremento increase		
ER-11 Serie 0.5	UM/ER-11	0,5 - 7,0	0,5 mm			40941700	40927000
	33213110			Ø Serraggio min   max	Incremento increase		
ER-16 Serie 1.5	ER-16A	0,5 - 10,0	0,5 mm	2,5 - 10,0	0,5 mm	40941700	40932000
	43211161			Ø Serraggio min   max	Incremento increase		
ER-20 TCU-1.5	UM/ER 20	0,5 - 13,0	0,5 mm	2,5 - 13,0	0,5 mm	40930000	40932000
	33214200			Ø Serraggio min   max	Incremento increase		
ER-25 Serie 2.5	UM/ER 25	0,5 - 17,0	0,5 mm			40932500	40939000
	33214250			Ø Serraggio min   max	Incremento increase		
ER-32 Serie 3.5	IC/ER 25	0,5 - 17,0	0,5 mm	2,5 - 16,0	0,5 mm	40932500	40939000
	33215250			Ø Serraggio min   max	Incremento increase		
ER-32 Serie 3.5	UM/ER 32	1,0 - 22,0	0,5 mm			40933200	40946000
	33214320			Ø Serraggio min   max	Incremento increase		
ER-40 Serie 4.5	IC/ER 32	1,0 - 22,0	0,5 mm	2,5 - 20,0	0,5 mm	40933200	40946000
	33215320			Ø Serraggio min   max	Incremento increase		
ER-40 Serie 4.5	UM/ER 40	2,0 - 30,0	0,5 mm			30934000	40959000
	33214400			Ø Serraggio min   max	Incremento increase		
ER-40 Serie 4.5	IC/ER 40	2,0 - 30,0	0,5 mm	2,5 - 26,0	0,5 mm	30934000	40959000
	3321540			Ø Serraggio min   max	Incremento increase		

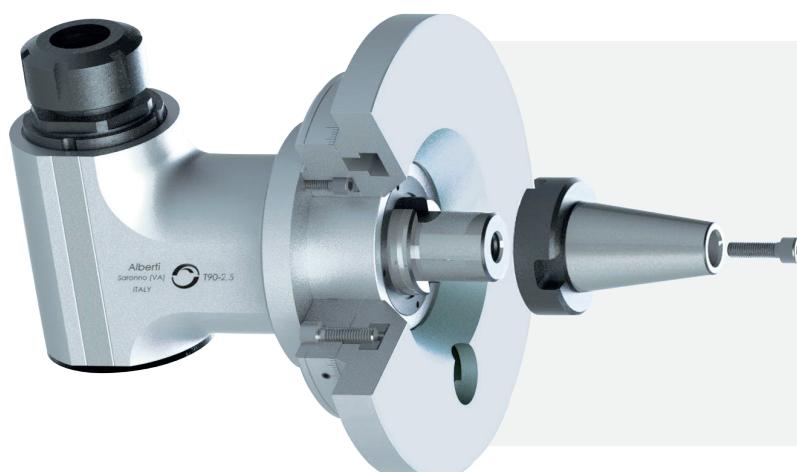


# LINEA MODULAR



Le teste della linea **MODULAR** sono adatte ad essere montate su **macchine utensili tradizionali da fissare al mandrino tramite apposita flangia**. Sono dotate di un cono intercambiabile, una flangia universale e la possibilità di avere alcuni moduli di prolunga per variarne la lunghezza. Per un corretto montaggio, è necessario realizzare una flangia di adattamento da inserire tra la testa e il mandrino.

*Angle heads of the **MODULAR** line are suitable to be mounted on **traditional machine tools and are attached to the spindle through a flange**. They are sold together with an interchangeable shank and a universal flange and they can extend the total length thanks to extension spacers. For a correct mounting, it is necessary to build an adapting flange to be screwed between the head and the machine spindle.*

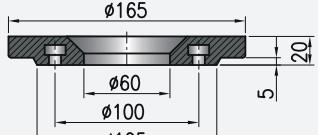
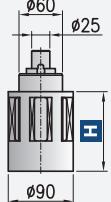
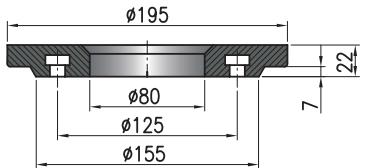
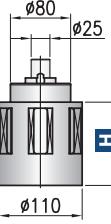
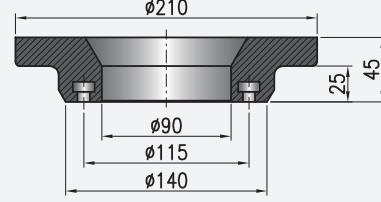
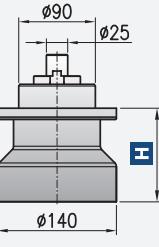
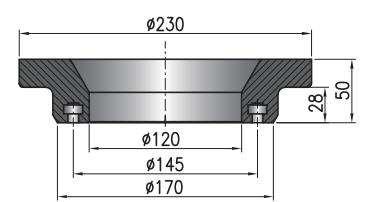
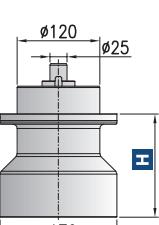


ESEMPIO DI  
MONTAGGIO IN MACCHINA  
*Example of mounting the head*

## Moduli di prolunga: **FLANGIA UNIVERSALE.** Extension spacer: *UNIVERSAL FLANGE*

Un sistema modulare componibile, rende possibile variare la lunghezza del corpo testa aggiungendo l'elemento di prolunga. **Modulo, coni e flangia sono modulari e quindi intercambiabili** su tutti i corpi testa appartenenti allo stesso ordine di grandezza.

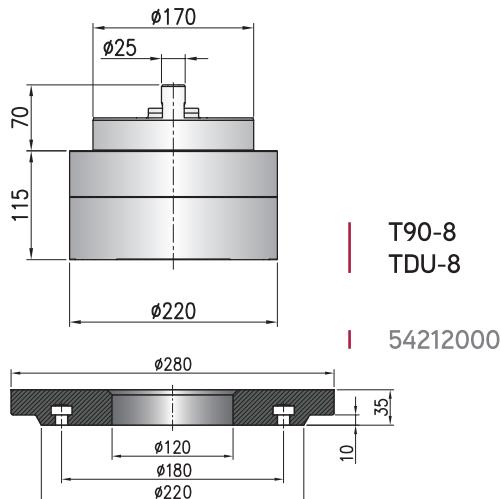
*The modular system makes it possible to extend the lenght of the body by adding a spacer. The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.*

FLANGIA <i>Flange</i>	MODULI DI PROLUNGA <i>Extension Spacer</i>	H	CODICI <i>Part number</i>
T90-0,5 T90-1,5 T90-2,5 TCU-2,5 TCU-3,5	 <p>54206000</p>	A	 <p>55 mm      90006010 110 mm     90006A11 150 mm     90006A15 250 mm     90006A25</p>
T90-3,5	 <p>54208000</p>	B	 <p>55 mm      90008010 110 mm     90008A11 150 mm     90008A15 250 mm     90008A25 360 mm     90008A36 450 mm     90008A45</p>
T90-4,5	 <p>54209001</p>	C	 <p>110 mm     90009000 150 mm     90009050</p>
T90-5	 <p>54212004</p>	D	 <p>150 mm     90012005</p>

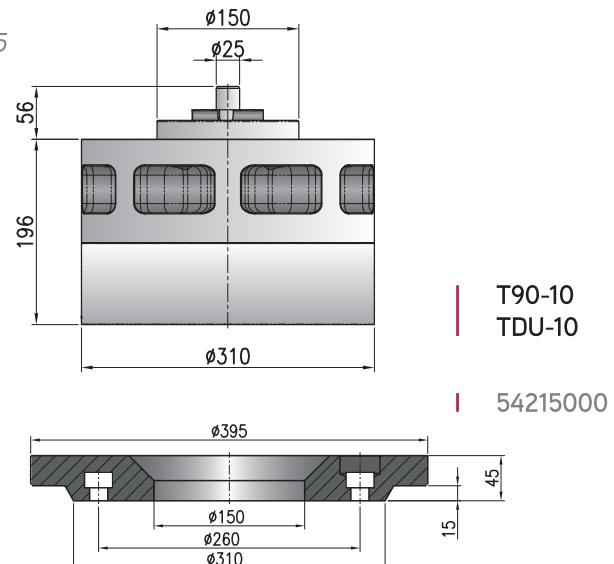
## MODULI DI PROLUNGA per teste linea P moltiplicati.

*Extension spacers for heads linea P with speed increase*

$R = 1:2,25$

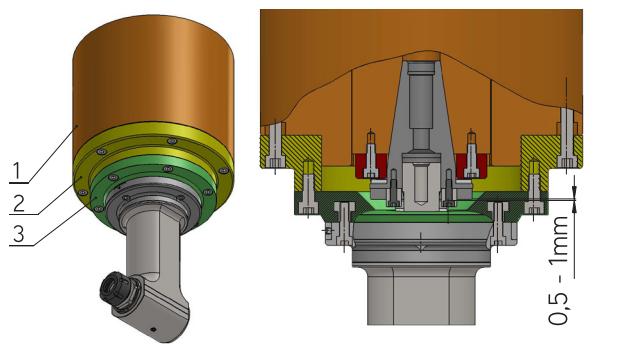


$R = 1:2,25$



## Esempio di montaggio di una TESTA TIPO MODULAR.

*Example of flange mounting for modular head*



1 Mandrino  
Spindle      2 Flangia di interfaccia  
Interface flange      3 Flangia universale  
Universal flange

Per il **corretto montaggio** della testa in macchina, una volta avvitato il cono e la flangia universale sulla testa, è **necessario realizzare un ulteriore flangia di adattamento** tra la testa e il mandrino della macchina seguendo attentamente le istruzioni sul libretto in dotazione.

*For a correct flange mounting on the machine, once you fix the shank and the universal flange on the head, it's necessary to make an adapting spacer between the head and the machine spindle and follow carefully the instruction on the given manual.*

Esempio di montaggio TESTA  
MODULAR con flangia universale  
standard e moduli di prolunga

*Example of flange mounting for MODULAR  
HEADS including extension spacers*



# T90-0.4C Neo

## AMT9004C

### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
1:1



RPM  
Velocità  
 $10.000 \text{ min}^{-1}$



Max. axial load  
Max. carico assiale  
**100 N**



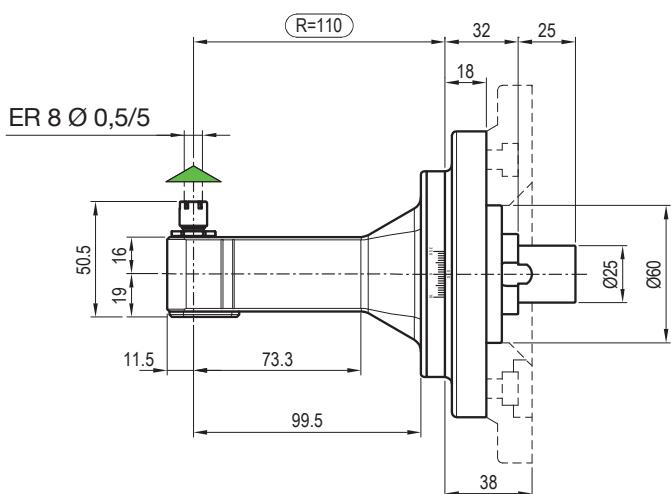
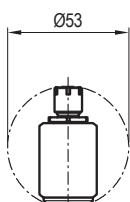
Torque  
Momento torcente  
**4 Nm**



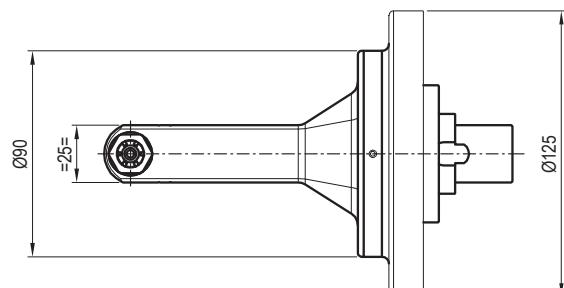
Weight  
Peso  
**4 kg**



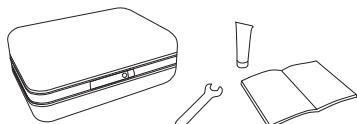
Collet  
Pinza  
**ER 8 ( $\varnothing 0,5/5$  mm)**



Minimum diameter without tool  
Diametro minimo senza utensile



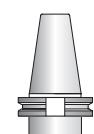
\* STANDARD EQUIPMENT  
includes:



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Shank / Cono

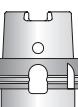


DIN-69871



CAT

MAS-BT



HSK



CAPTO



KM

### Option / Opzione



bar max

**12**

Coolant through flange and output spindle  
Refrigerante attraverso la flangia e il mandrino di uscita



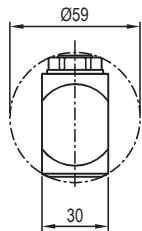
$\varnothing$  mm max.

**6**

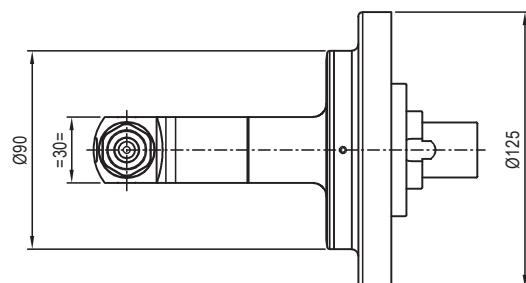
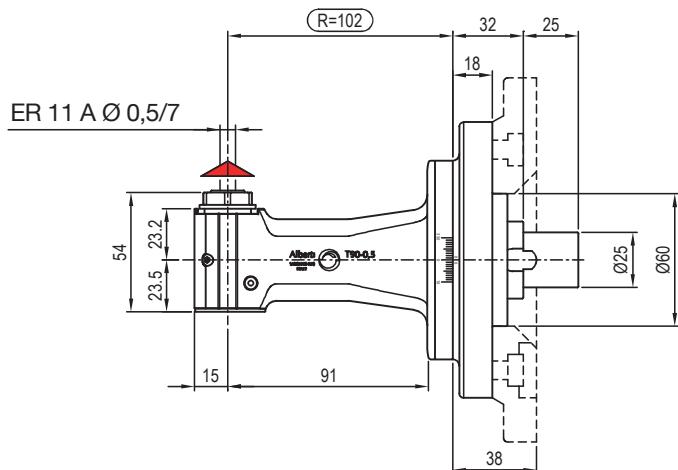
Weldon output  
Weldon

# T90-0.5C Neo

AMT9005C



Minimum diameter without tool  
Diametro minimo senza utensile



## Technical data

Caratteristiche tecniche



Ratio

Rapporto

1:1



RPM

Velocità

10.000 min<sup>-1</sup>



Max. axial load

Max. carico assiale

150 N



Torque

Momento torcente

8 Nm



Weight

Peso

4 kg



Tapping

Maschiatura

Max. M5

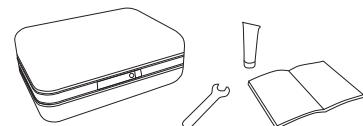


Collet

Pinza

ER 11 ( $\varnothing 0,5/7$  mm)

\* STANDARD EQUIPMENT includes:



▲ Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino

	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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### Option / Opzione



bar max  
12

Coolant through flange and output spindle  
Refrigerante attraverso la flangia e il mandrino di uscita



bar max  
100

Coolant through modular taper  
Adduzione refrigerante attraverso il cono



$\varnothing$  mm max.  
6

Weldon output  
Weldon

# T90-0.5L Neo

## Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
1:1



RPM  
Velocità  
 $10.000 \text{ min}^{-1}$



Max. axial load  
Max. carico assiale  
**150 N**



Torque  
Momento torcente  
**8 Nm**



Weight  
Peso  
**4.3 kg**

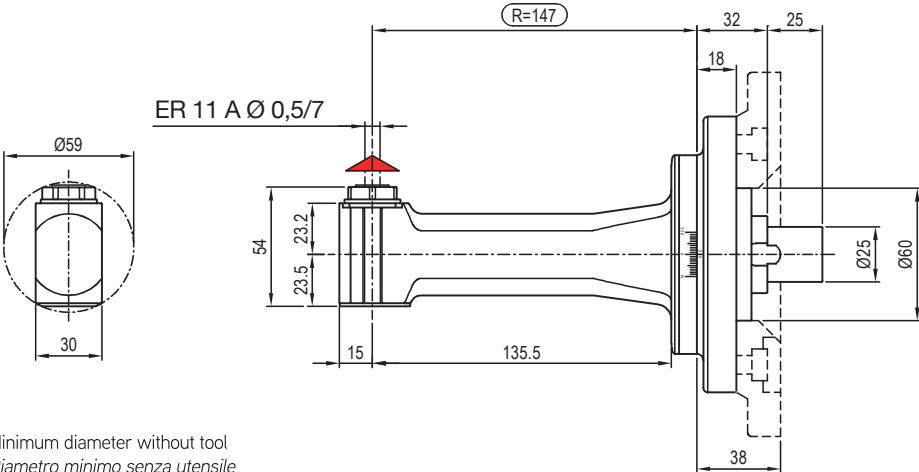


Tapping  
Maschiatura  
**Max. M5**

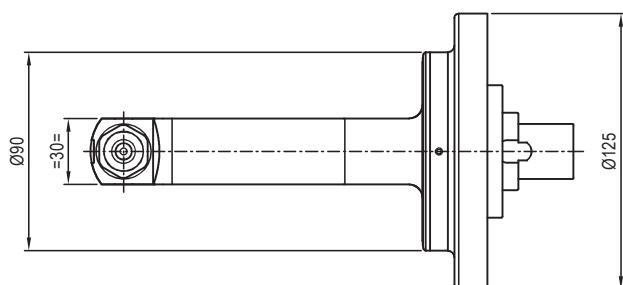


Collet  
Pinza  
**ER 11 ( $\phi 0.5/7 \text{ mm}$ )**

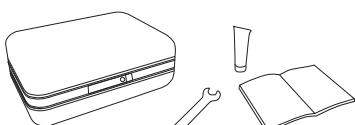
## AMT9005L



Minimum diameter without tool  
Diametro minimo senza utensile



## \* STANDARD EQUIPMENT includes:



Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino

	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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## Option / Opzione



bar max  
**12**

Coolant through flange and output spindle  
Refrigerante attraverso la flangia e il mandrino di uscita



bar max  
**100**

Coolant through modular taper  
Adduzione refrigerante attraverso il cono



$\emptyset \text{ mm}$  max.  
**6**

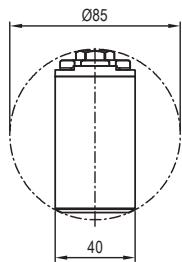
Weldon output  
Weldon

# T90-1.5C Neo

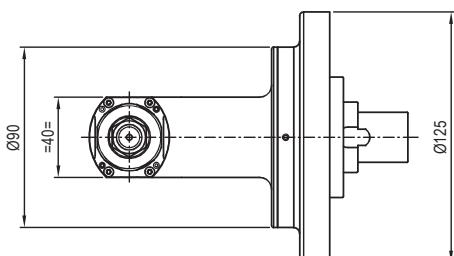
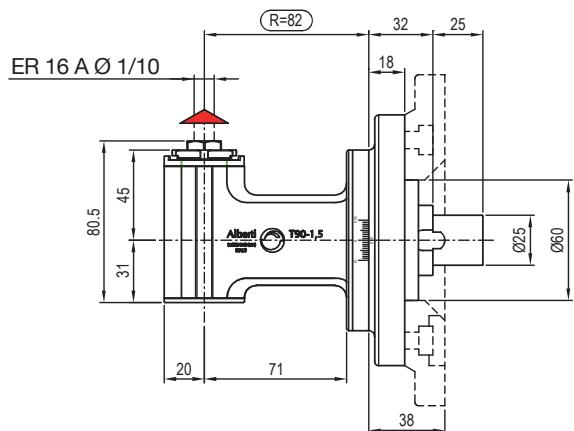
## AMT9015C

### Technical data

Caratteristiche tecniche



Minimum diameter without tool  
Diametro minimo senza utensile



Ratio Rapporto 1:1

RPM Velocità 8.000 min<sup>-1</sup>

Max. axial load Max. carico assiale 250 N

Torque Momento torcente 15 Nm

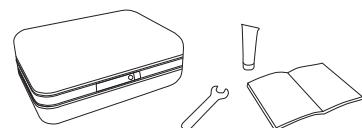
Weight Peso 4.3 kg

Tapping Maschiatura Max. M6

Collet Pinza ER 16 (Ø 1/10 mm)

\* STANDARD EQUIPMENT includes:

Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino



	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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### Option / Opzione



bar max  
12

Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita



bar max  
100

Coolant through modular taper  
Adduzione refrigerante attraverso il cono



min<sup>-1</sup>  
10.000

High speed optional RPM max.  
Opzione alta velocità RPM max.



Ø mm  
13

Arbor output  
Porta fresa



Ø mm max.  
10

Weldon output  
Weldon



Double output  
Doppia uscita

# T90-1.5L Neo

## Technical data

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**8.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**250 N**



**Torque**  
Momento torcente  
**15 Nm**



**Weight**  
Peso  
**5.2 kg**

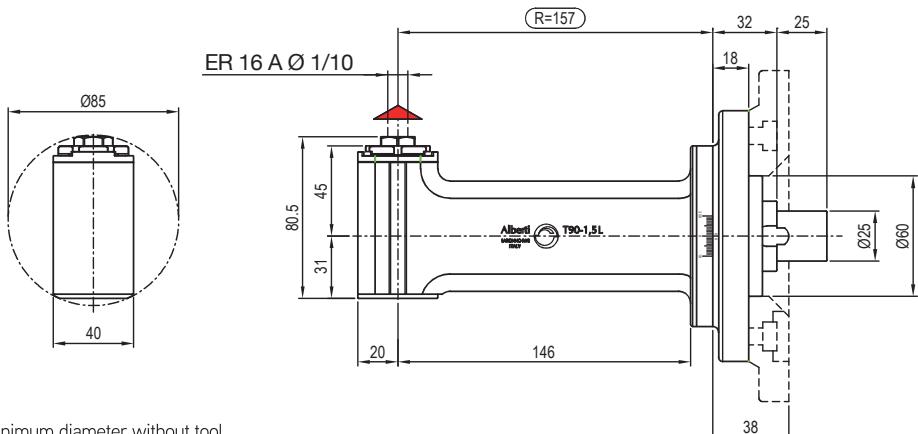


**Tapping**  
Maschiatura  
**Max. M6**

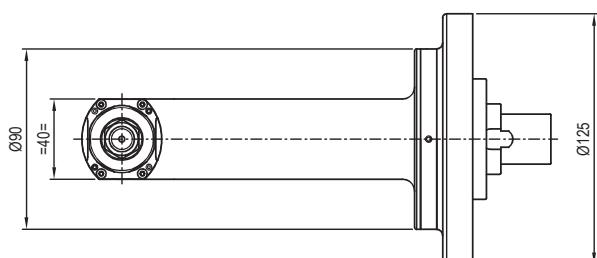


**Collet**  
Pinza  
**ER 16 (ø 1/10 mm)**

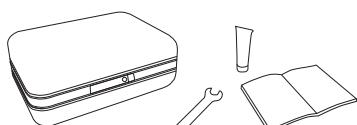
## AMT9015L



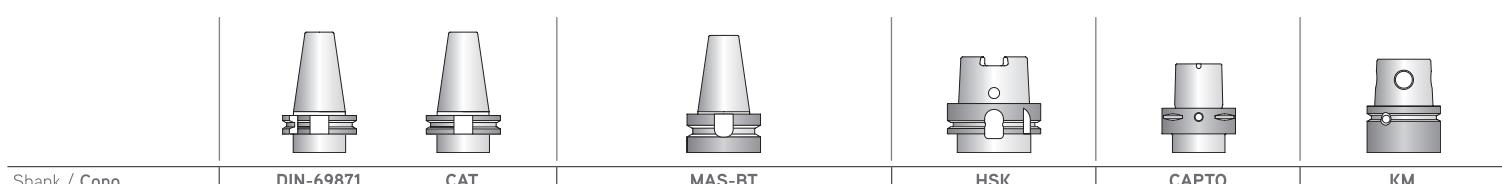
Minimum diameter without tool  
Diametro minimo senza utensile



## \* STANDARD EQUIPMENT includes:



Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino



Shank / Cono

DIN-69871

CAT

MAS-BT

HSK

CAPTO

KM

## Option / Opzione



bar max  
**12**



bar max  
**100**



**min<sup>-1</sup>**  
**10.000**



**Ø mm**  
**13**  
Arbor output  
Porta fresa



**Ø mm max.**  
**10**  
Weldon output  
Weldon



**ER 16/ER 11**  
Double output  
Doppia uscita

Coolant through flange and output  
spindle / Refrigerante attraverso  
la flangia e il mandrino di uscita

Coolant through modular taper  
Adduzione refrigerante  
attraverso il cono

High speed optional RPM max.  
Opzione alta velocità RPM max.

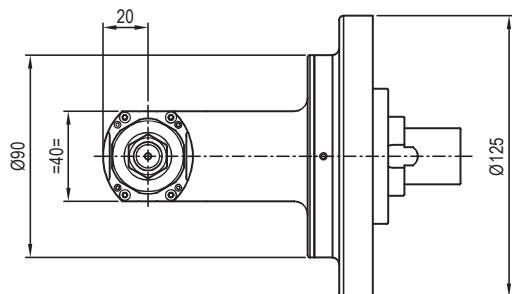
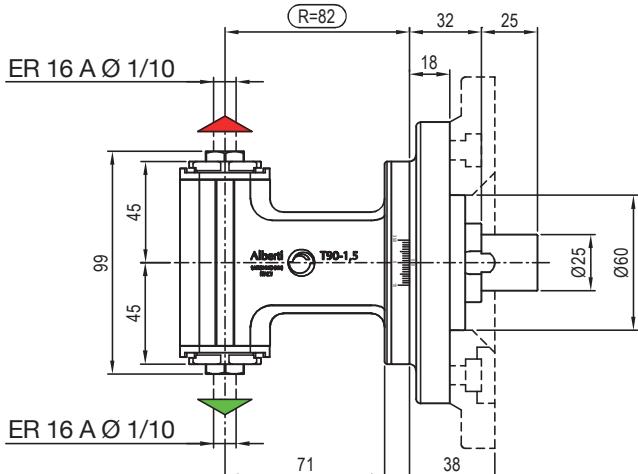
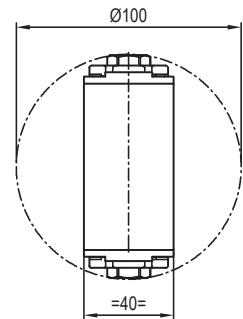
Arbor output  
Porta fresa

Weldon output  
Weldon

Double output  
Doppia uscita

# T90-1.5 2U

## AMT9015D



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino

### Technical data

Caratteristiche tecniche



Ratio

Rapporto

1:1



RPM

Velocità

6.000 min<sup>-1</sup>



Max. axial load

Max. carico assiale

510 N



Torque

Momento torcente

30 Nm



Weight

Peso

5.4 kg

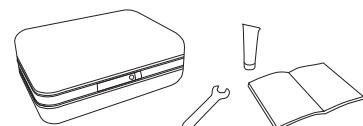


Collet

Pinza

ER 25 (Ø 1/16 mm)

\* STANDARD EQUIPMENT includes:



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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### Option / Opzione



bar max  
12

Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita



min<sup>-1</sup>  
8.000

High speed RPM max.  
Alta velocità RPM max.



Ø mm  
16

Arbor output  
Porta fresa



Ø mm max.  
16

Weldon output  
Weldon



Quick Change  
Attacco rapido

# T90-2.5C Neo

## AMT9025C

**Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**6.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**510 N**



**Torque**  
Momento torcente  
**50 Nm**



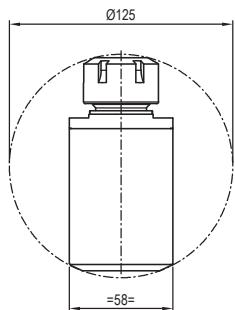
**Weight**  
Peso  
**5.4 kg**



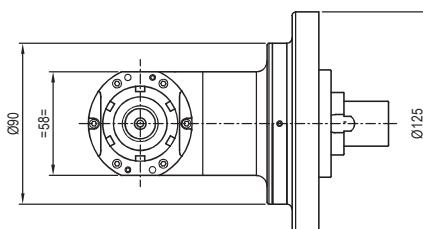
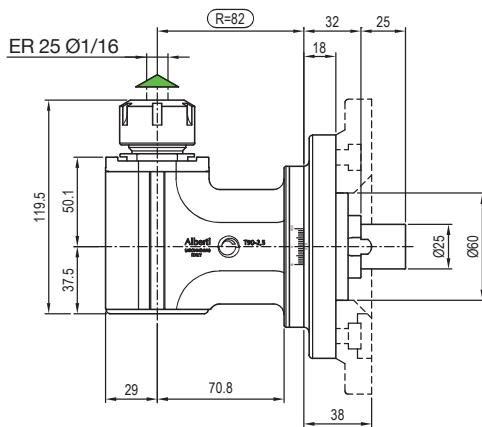
**Tapping**  
Maschiatura  
**Max. M12**



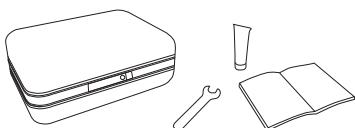
**Collet**  
Pinza  
**ER 25 (Ø 1/16 mm)**



Minimum diameter without tool  
Diametro minimo senza utensile



**\* STANDARD EQUIPMENT**  
includes:



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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**Option / Opzione**

bar max  
**12**

Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita



bar max  
**100**

Coolant through modular taper Adduzione refrigerante attraverso il cono



min<sup>-1</sup>  
**9.000**

High speed RPM max.  
Alta velocità RPM max.



Ø mm  
**16**

Arbor output  
Porta fresa



Ø mm max.  
**16**

Weldon output  
Weldon



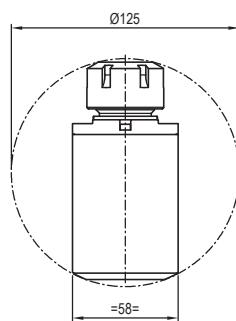
HSK-32  
Quick Change  
Attacco rapido



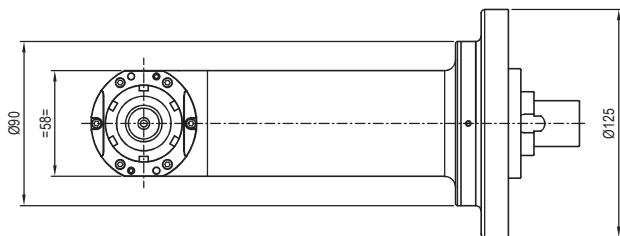
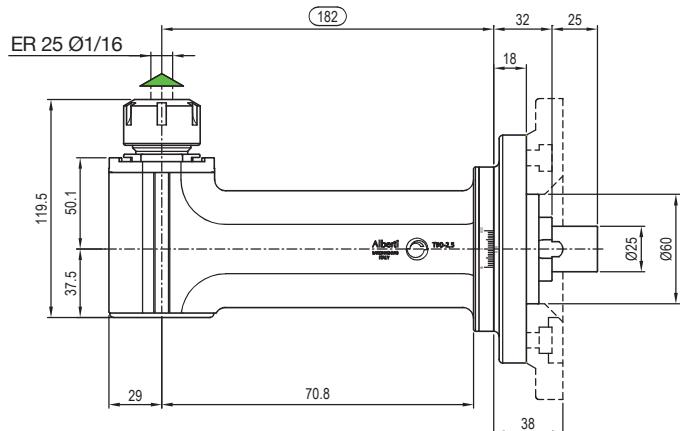
ER 25/ER 16  
Double output  
Doppia uscita

# T90-2.5L Neo

## AMT9025L



Minimum diameter without tool  
Diametro minimo senza utensile

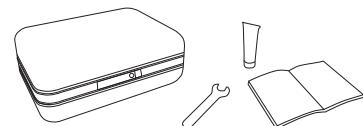


### Technical data

Caratteristiche tecniche

	Ratio Rapporto 1:1
	RPM Velocità 6.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 510 N
	Torque Momento torcente 50 Nm
	Weight Peso 6.7 kg
	Tapping Maschiatura Max. M12
	Collet Pinza ER 25 (Ø 1/16 mm)

\* STANDARD EQUIPMENT  
includes:



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



### Option / Opzione

	bar max <b>12</b>		bar max <b>100</b>		min <sup>-1</sup> <b>9.000</b>		Ø mm <b>16</b>		Ø mm max. <b>16</b>		HSK-32		ER 25/ER 16
Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita		Coolant through modular taper Adduzione refrigerante attraverso il cono		High speed RPM max. Alta velocità RPM max.		Arbor output Porta fresa		Weldon output Weldon		Quick Change Attacco rapido		Double output Doppia uscita	

**T90-2.5 2U****AMT9025D****Technical data**

Caratteristiche tecniche



Ratio

Rapporto  
1:1

RPM

Velocità  
6.000 min<sup>-1</sup>

Max. axial load

Max. carico assiale  
510 N

Torque

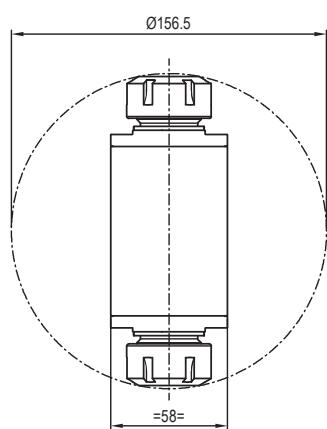
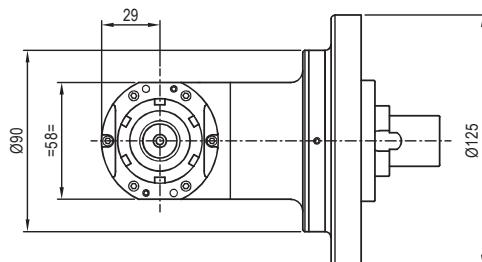
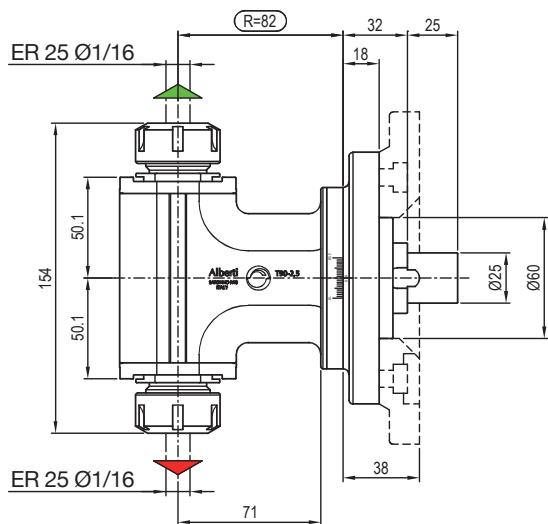
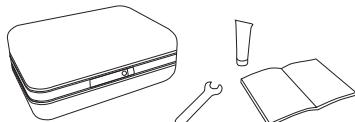
Momento torcente  
30 Nm

Weight

Peso  
6.4 kg

Collet

Pinza

ER 25 ( $\varnothing$  1/16 mm)Minimum diameter without tool  
Diametro minimo senza utensile**\* STANDARD EQUIPMENT**  
includes:

- ▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
 ▲ Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino

	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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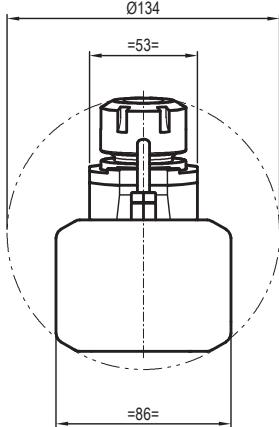
**Option / Opzione**8.000  
min<sup>-1</sup>High speed optional RPM max.  
Opzione alta velocità RPM max.Ø mm  
16Arbor output  
Porta fresaØ mm max.  
16Weldon output  
Weldon



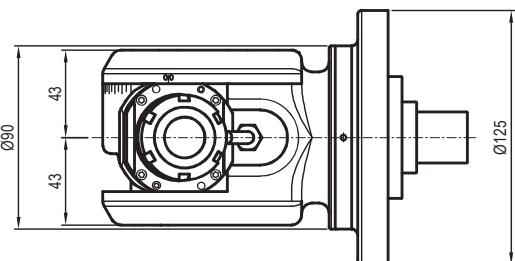
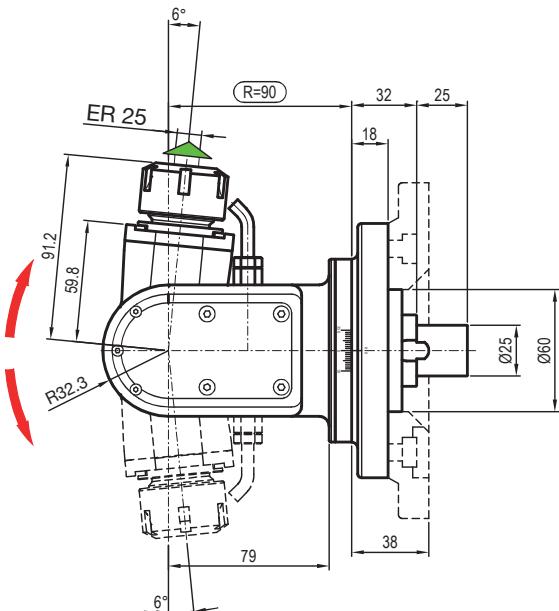
Alberti®

# TCU-2.5 Neo

## AMTCU25C



Minimum diameter without tool  
Diametro minimo senza utensile

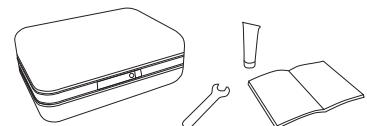


### Technical data

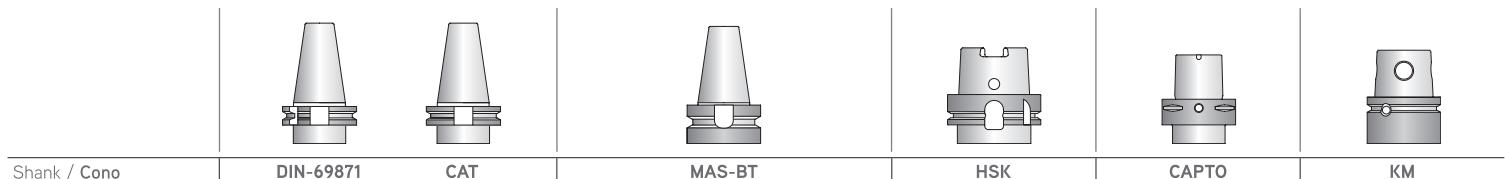
Caratteristiche tecniche

	Ratio Rapporto 1:1
	RPM Velocità 4.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 510 N
	Torque Momento torcente 30 Nm
	Weight Peso 7 kg
	Tapping Maschiatura Max. M12
	Collet Pinza ER 25 (Ø 1/16 mm)

\* STANDARD EQUIPMENT  
includes:



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



### Option / Opzione

	bar max 100		+/ - 95°		every 5°		min <sup>-1</sup> 6.000		Ø mm max. 16
Coolant through modular taper Adduzione refrigerante attraverso il cono		Angle Angolo		Fixed positioning Posizionamento fisso		High speed optional RPM max. Opzione alta velocità RPM max.		Weldon output Weldon	

**T90-3.5C Neo****Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**5.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**1.250 N**



**Torque**  
Momento torcente  
**70 Nm**



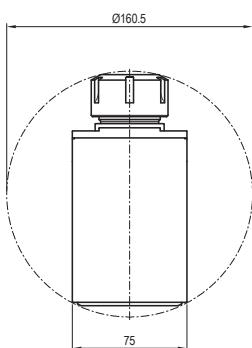
**Weight**  
Peso  
**11 kg**



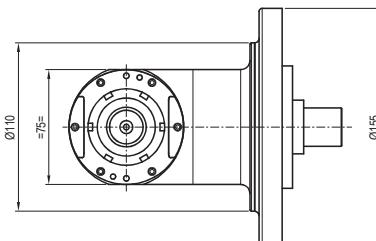
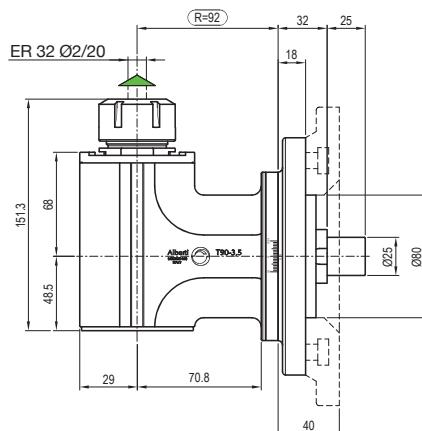
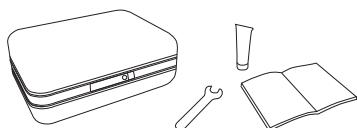
**Tapping**  
Maschiatura  
**Max. M16**



**Collet**  
Pinza  
**ER 32 (ø 2/20 mm)**

**AMT9035C**

Minimum diameter without tool  
Diametro minimo senza utensile

**\* STANDARD EQUIPMENT includes:**

Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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**Option / Opzione**

**bar max**  
**12**

Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita



**bar max**  
**100**

Coolant through modular taper Adduzione refrigerante attraverso il cono



**min<sup>-1</sup>**  
**8.000**

High speed RPM max.  
Alta velocità RPM max.



**Ø mm**  
**27**

Arbor output  
Porta fresa



**Ø mm max.**  
**20**

Weldon output  
Weldon



**ISO-30 HSK-40**

Quick Change  
Attacco rapido

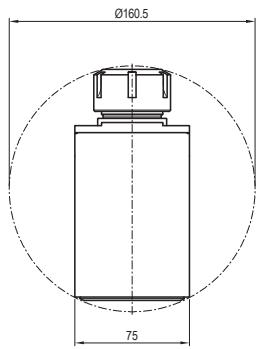


**ER 32/ER 20**

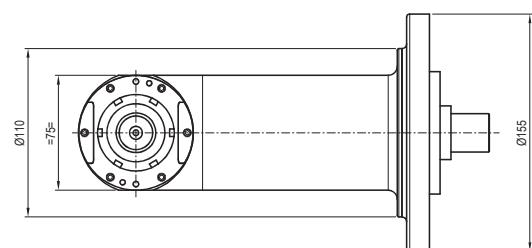
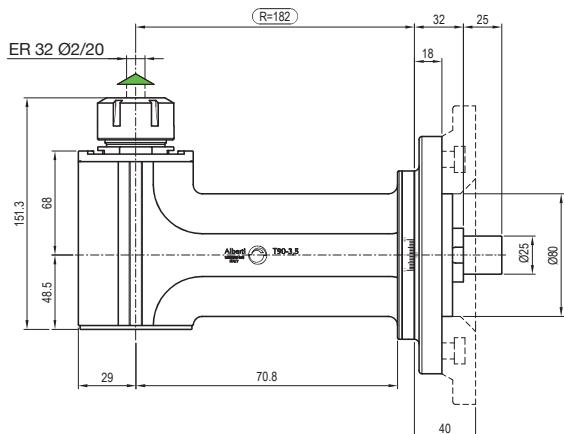
Double output  
Doppia uscita

# T90-3.5L Neo

## AMT9035L



Minimum diameter without tool  
Diametro minimo senza utensile



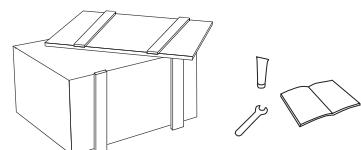
▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

### Technical data

Caratteristiche tecniche

	Ratio Rapporto 1:1
	RPM Velocità 5.000 min <sup>-1</sup>
	Max. axial load Max. carico assiale 1.250 N
	Torque Momento torcente 70 Nm
	Weight Peso 13.2 kg
	Tapping Maschiatura Max. M16
	Collet Pinza ER 32 (Ø 2/20 mm)

\* STANDARD EQUIPMENT includes:



	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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### Option / Opzione

	bar max 12		bar max 100		min <sup>-1</sup> 8.000		Ø mm 27		Ø mm max. 20		ISO-30 HSK-40		ER 32/ER 20
Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita		Coolant through modular taper / Adduzione refrigerante attraverso il cono		High speed RPM max. / Alta velocità RPM max.		Arbor output / Porta fresa		Weldon output / Weldon		Quick Change / Attacco rapido		Double output / Doppia uscita	

## T90-3.5 2U

## AMT9035D

## Technical data

Caratteristiche tecniche



Ratio

Rapporto  
1:1

RPM

Velocità  
4.000 min<sup>-1</sup>

Max. axial load

Max. carico assiale  
1.250 N

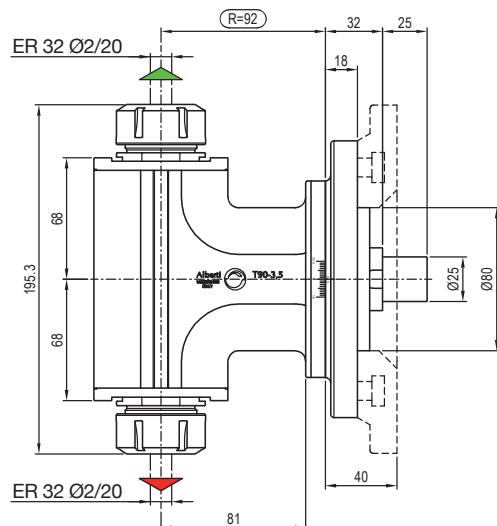
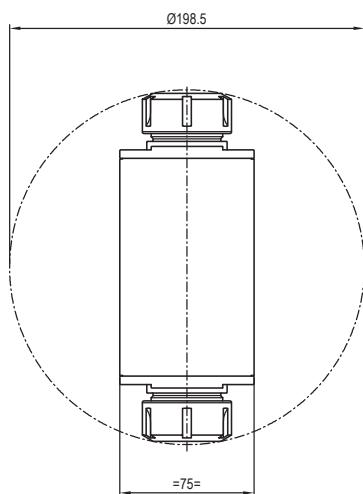
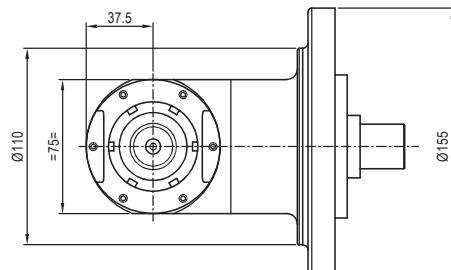
Torque

Momento torcente  
50 Nm

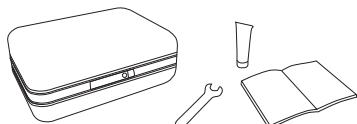
Weight

Peso  
12 kg

Collet

Pinza  
ER 32 ( $\varnothing$  2/20 mm)Minimum diameter without tool  
Diametro minimo senza utensile

## \* STANDARD EQUIPMENT includes:



- ▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino  
 ▲ Direction of rotation opposite to machine spindle / senso di rotazione contrario al mandrino

	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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## Option / Opzione



Ø mm

27

Arbor output  
Porta fresa

Ø mm max.

20

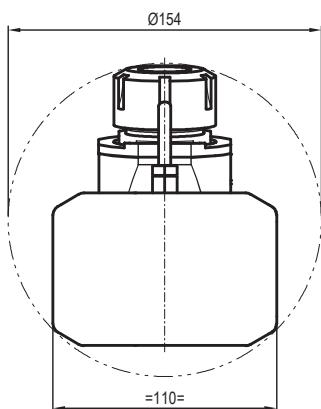
Weldon output  
Weldon

HSK-40

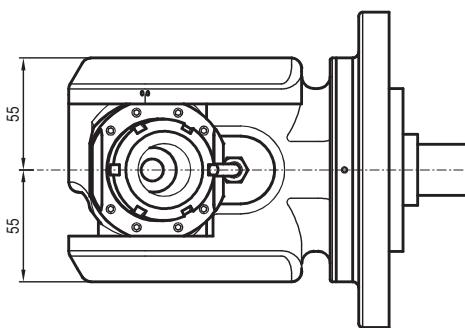
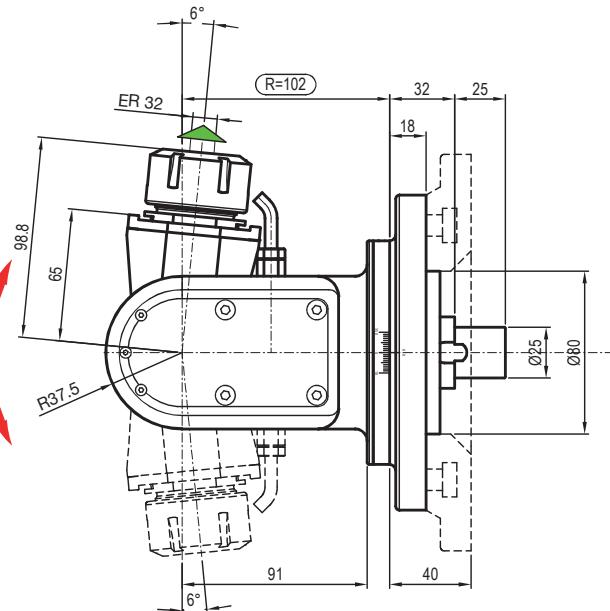
Quick Change  
Attacco rapido

# TCU-3.5 Neo

AMTCU35C



Minimum diameter without tool  
Diametro minimo senza utensile



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

## Technical data

Caratteristiche tecniche



Ratio

Rapporto

1:1



RPM

Velocità

4.000 min<sup>-1</sup>



Max. axial load

Max. carico assiale

715 N



Torque

Momento torcente

50 Nm



Weight

Peso

13 kg



Tapping

Maschiatura

Max. M16

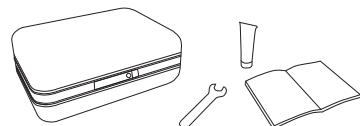


Collet

Pinza

ER 32 (Ø 2/20 mm)

\* STANDARD EQUIPMENT includes:



Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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## Option / Opzione



bar max  
100

Coolant through modular taper  
Adduzione refrigerante  
attraverso il cono



+/- 95°

Angle  
Angolo



every  
5°

Fixed positioning  
Posizionamento fisso



min<sup>-1</sup>  
6.000

High speed optional RPM max.  
Opzione alta velocità RPM max.



Ø mm max.  
20

Weldon output  
Weldon

**T90-4.5C Neo****Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**4.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**1.750 N**



**Torque**  
Momento torcente  
**90 Nm**



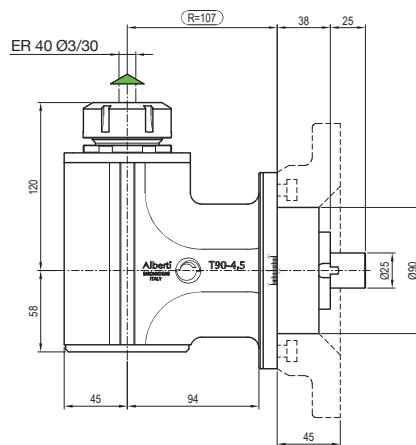
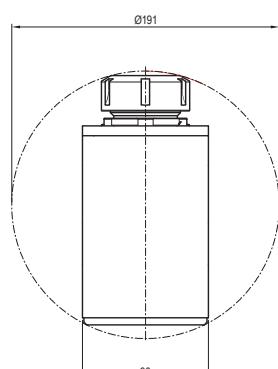
**Weight**  
Peso  
**17 kg**



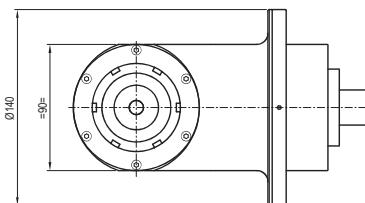
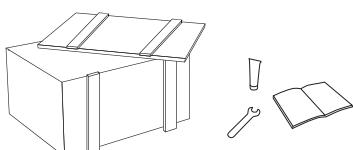
**Tapping**  
Maschiatura



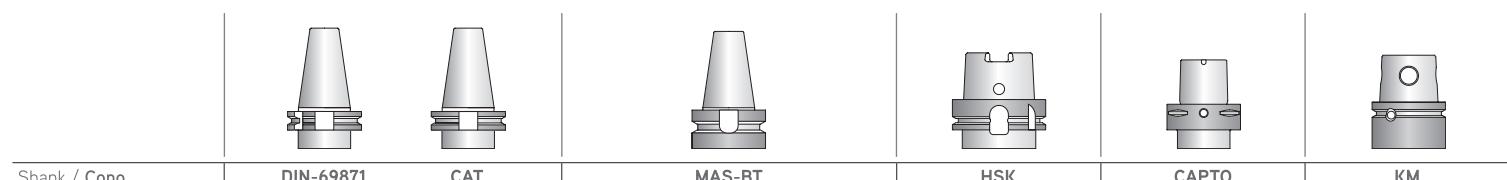
**Collet**  
Pinza  
**ER 40 (Ø 3/30 mm)**

**AMT9045C**

Minimum diameter without tool  
Diametro minimo senza utensile

**\* STANDARD EQUIPMENT includes:**

Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Shank / Cono

DIN-69871

CAT

MAS-BT

HSK

CAPTO

KM

**Option / Opzione**

**bar max**  
**12**

Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita



**bar max**  
**100**

Coolant through modular taper / Adduzione refrigerante attraverso il cono



**min<sup>-1</sup>**  
**6.000**

RPM max.  
RPM max.



**Ø mm**  
**27**

Arbor output  
Porta fresa



**Ø mm max.**  
**25**

Weldon output  
Weldon



**ISO-30**  
**HSK-40 CAPTO C4**

Quick Change  
Attacco rapido



**ER 40/ER 25**

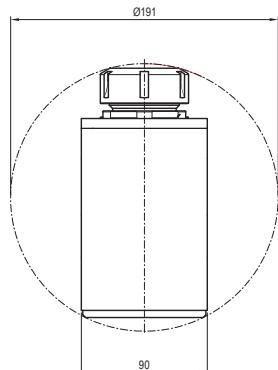
Double output  
Doppia uscita



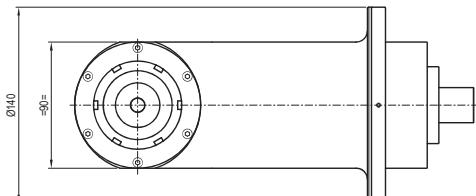
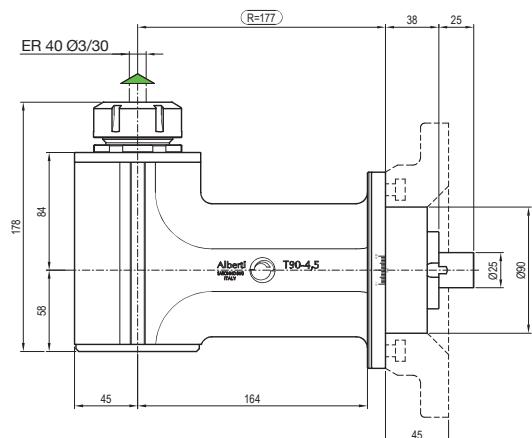
Alberti®

# T90-4.5L Neo

## AMT9045L



Minimum diameter without tool  
Diametro minimo senza utensile



### Technical data

Caratteristiche tecniche



Ratio  
Rapporto  
1:1



RPM  
Velocità  
4.000 min<sup>-1</sup>



Max. axial load  
Max. carico assiale  
1.750 N



Torque  
Momento torcente  
90 Nm



Weight  
Peso  
20 kg



Tapping  
Maschiatura

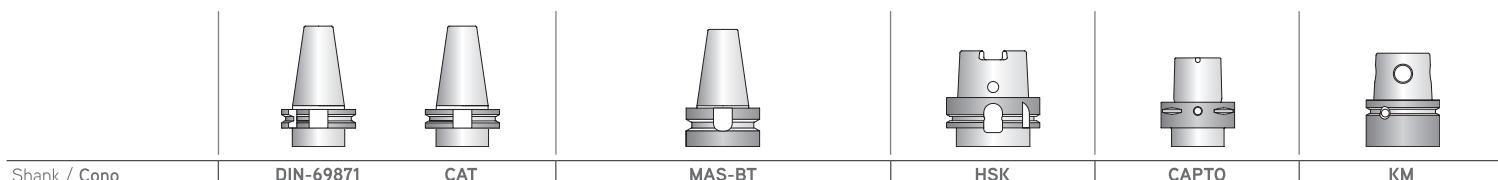
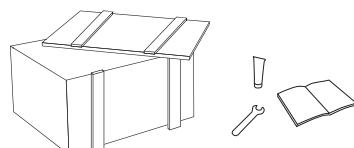


Collet  
Pinza  
ER 40 (Ø 3/30 mm)

\* STANDARD EQUIPMENT  
includes:



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



### Option / Opzione

	bar max 12		bar max 100		min <sup>-1</sup> 6.000		Ø mm 27		Ø mm max. 25		ISO-30 HSK-40 CAPTO C4		ER 40/ER 25
Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita		Coolant through modular taper / Adduzione refrigerante attraverso il cono		RPM max. RPM max.		Arbor output Porta fresa		Weldon output Weldon		Quick Change Attacco rapido		Double output Doppia uscita	

**T90-5C HP Neo****Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**3.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**1.800 N**



**Torque**  
Momento torcente  
**160 Nm**



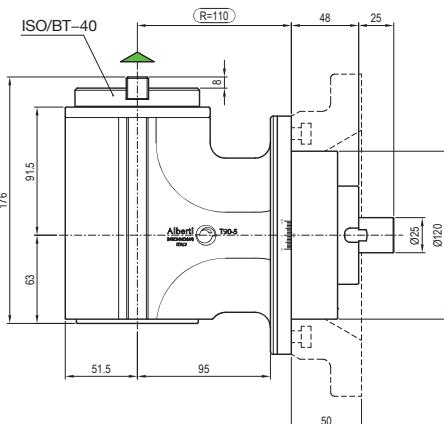
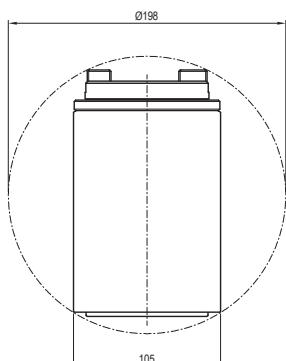
**Weight**  
Peso  
**22 kg**



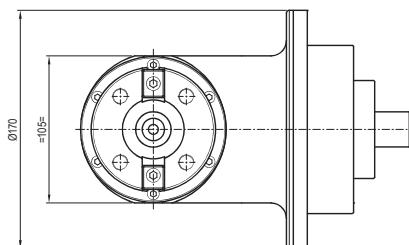
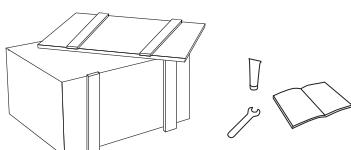
**Tapping**  
Maschiatura



**Collet**  
Pinza  
**ISO/BT 40**

**AMT9050C**

Minimum diameter without tool  
Diametro minimo senza utensile

**\* STANDARD EQUIPMENT includes:**

Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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**Option / Opzione**

bar max  
**12**

Coolant through flange and output spindle / Refrigerante attraverso la flangia e il mandrino di uscita



bar max  
**100**

Coolant through modular taper  
Adduzione refrigerante  
attraverso il cono



min<sup>-1</sup>  
**6.000**

RPM max.  
RPM max.



HSK 63 CAPTO C4 C5

Quick Change  
Attacco rapido



AIR/OIL

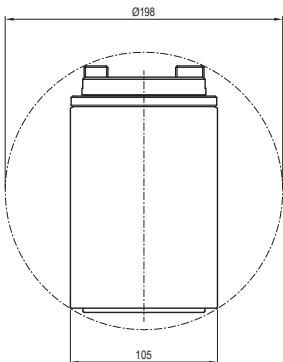
Air / Oil lubrication  
Lubrificazione aria / olio

# T90-5L HP Neo

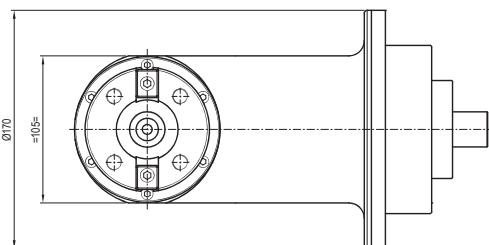
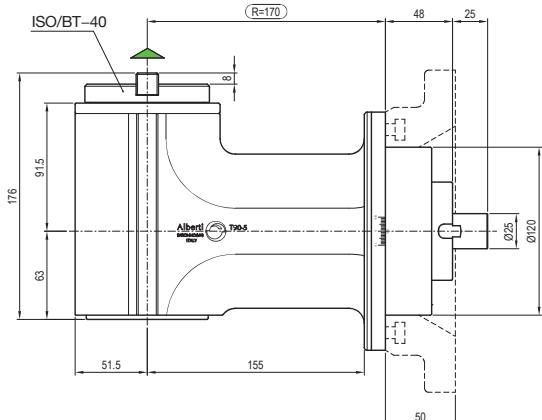
AMT9050HP

## Technical data

Caratteristiche tecniche



Minimum diameter without tool  
Diametro minimo senza utensile



 Ratio  
Rapporto  
1:1

 RPM  
Velocità  
3.000 min<sup>-1</sup>

 Max. axial load  
Max. carico assiale  
1.800 N

 Torque  
Momento torcente  
160 Nm

 Weight  
Peso  
22 kg

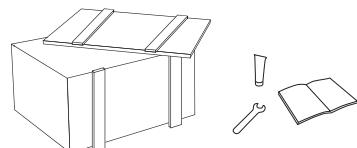
 Tapping  
Maschiatura

 Collet  
Pinza  
ISO/BT 40

\* STANDARD EQUIPMENT  
includes:



Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



	DIN-69871	CAT		HSK		KM
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### Option / Opzione



bar max  
12

Coolant through flange and output spindle  
Refrigerante attraverso la flangia e  
il mandrino di uscita



bar max  
100

Coolant through modular taper  
Adduzione refrigerante  
attraverso il cono



HSK 63 CAPTO C4 C5

Quick Change  
Attacco rapido



AIR/OIL

Air / Oil lubrication  
Lubrificazione aria / olio

# T90-8 HP Neo

## Technical data

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**3.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**2.400 N**



**Torque**  
Momento torcente  
**200 Nm**



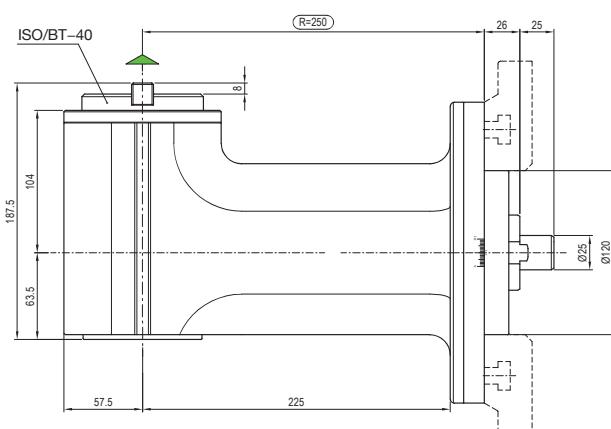
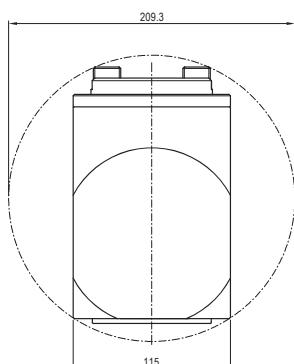
**Weight**  
Peso  
**33 kg**



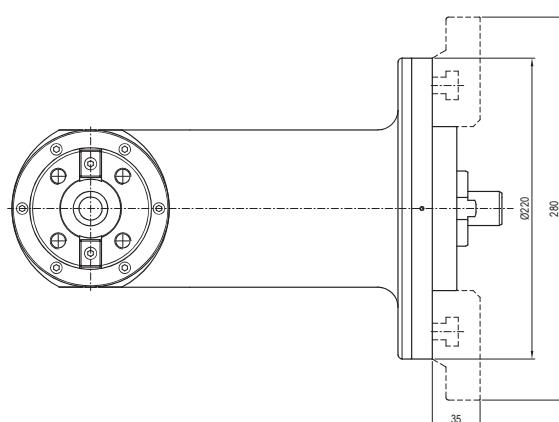
**Tapping**  
Maschiatura  
**Max. M27**



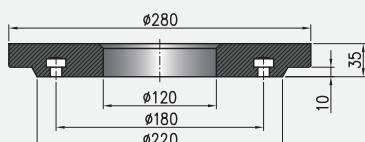
**Collet**  
Pinza  
**ISO/BT 40**



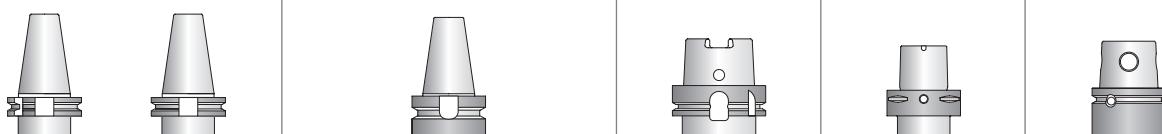
Minimum diameter without tool  
Diametro minimo senza utensile



## FLANGIA T90-8



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Spindle / Cono

DIN-69871

CAT

MAS-BT

HSK

CAPTO

KM

## Option / Opzione



bar max  
**100**

Coolant through spindle  
Refrigerante attraverso il cono



**min<sup>-1</sup>**  
**4.000**

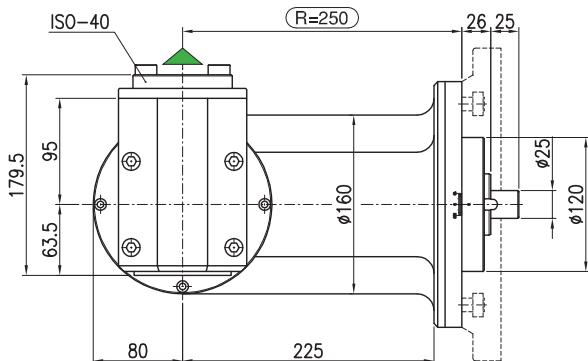
RPM max.  
RPM max.

# TDU-8

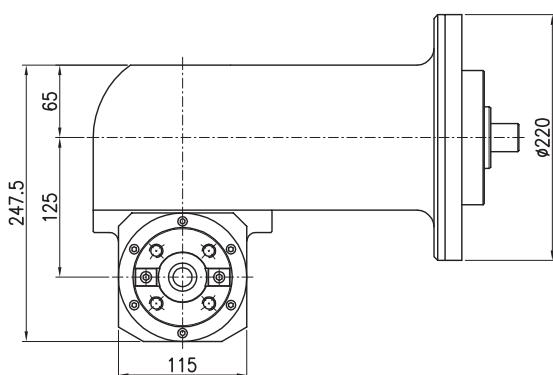
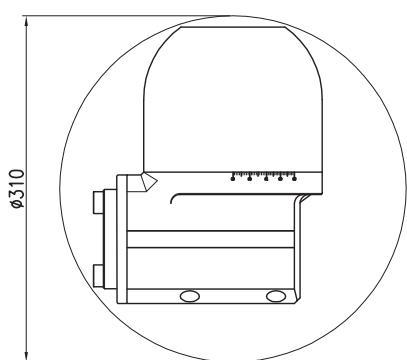
## APTDU80C

### Technical data

Caratteristiche tecniche



Minimum diameter without tool  
Diametro minimo senza utensile



 Ratio  
Rapporto  
1:1

 RPM  
Velocità  
 $3.000 \text{ min}^{-1}$

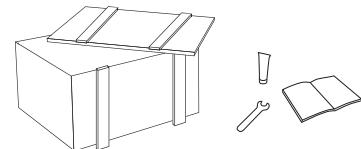
 Max. axial load  
Max. carico assiale  
2.400 N

 Torque  
Momento torcente  
100 Nm

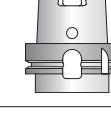
 Weight  
Peso  
50 kg

 Collet  
Pinza  
ISO/BT 40

\* STANDARD EQUIPMENT  
includes:



 Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

	DIN-69871	CAT	MAS-BT		CAPTO	
Shank / Cono				HSK		KM

### Option / Opzione



bar max

12

Coolant through spindle  
Adduzione refrigerante interna



HSK 63A CAPTO C4 C5

Quick Change  
Attacco rapido



AIR/OIL

Air / Oil lubrication  
Lubrificazione aria / olio

**T90-8XL Neo****R = 450 / 650 / 850****Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**3.000 min<sup>-1</sup>**



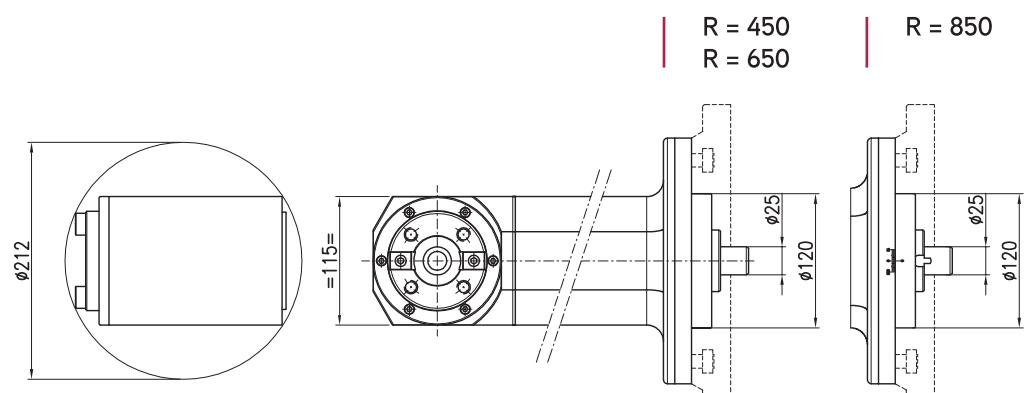
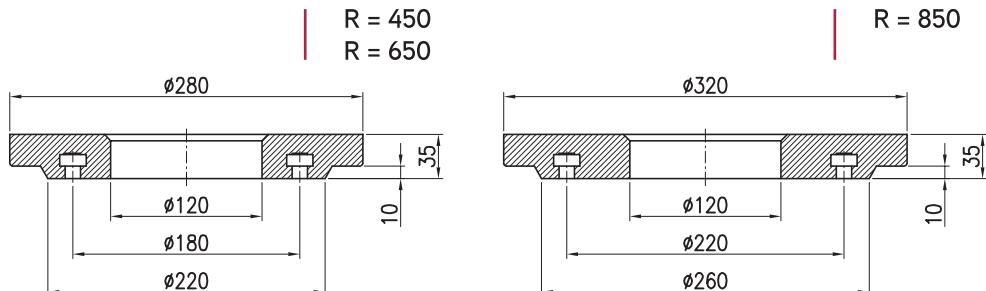
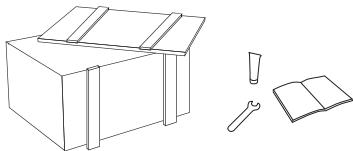
**Max. axial load**  
Max. carico assiale  
**2.400 N**



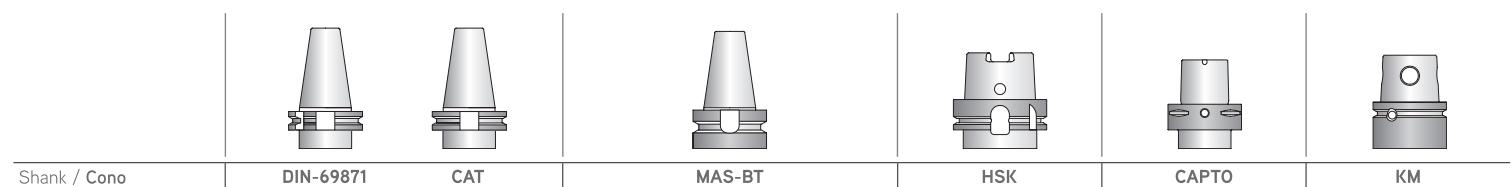
**Torque**  
Momento torcente  
**100 Nm**



**Collet**  
Pinza  
**ISO/BT 40**

**\* STANDARD EQUIPMENT includes:**

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



Shank / Cono

DIN-69871

CAT

MAS-BT

HSK

CAPTO

KM

**Option / Opzione**

bar max

12

Coolant through spindle  
Adduzione refrigerante interna



HSK 63A / CAPTO C4 C5

Quick Change  
Attacco rapido



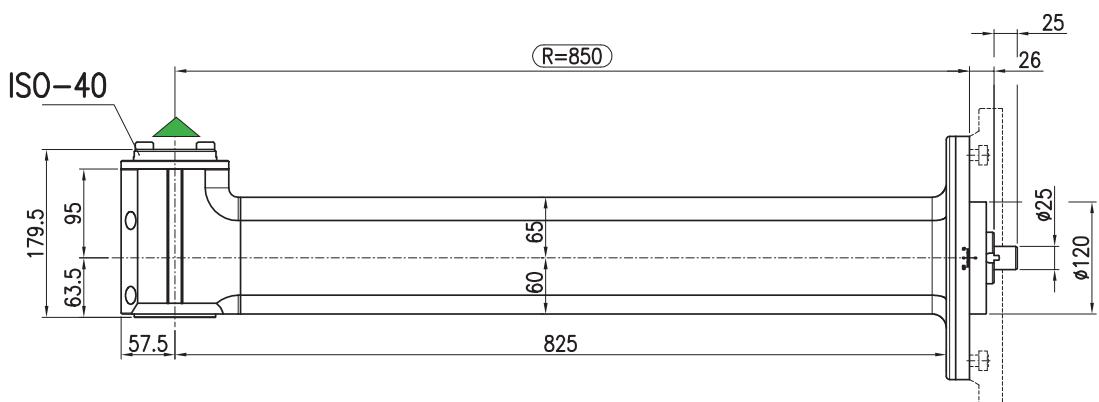
AIR/OIL

Air / Oil lubrication  
Lubrificazione aria / olio

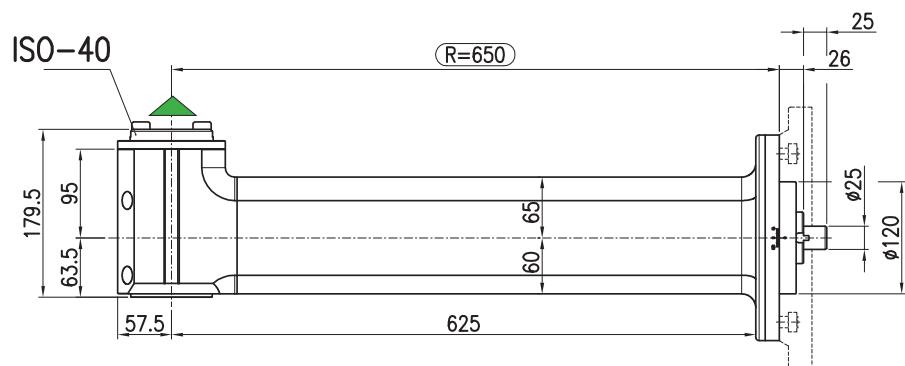
## APT9080P.450 / APT9080S.650 / APT9080S.850



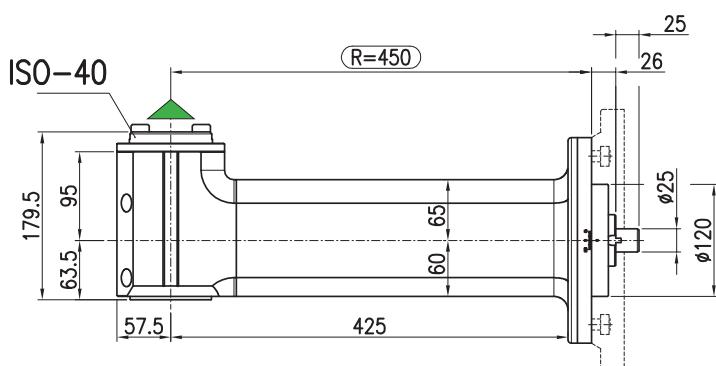
**Weight**  
Peso  
**105 kg**



**Weight**  
Peso  
**75 kg**



**Weight**  
Peso  
**62 kg**



**TCU-8 R.I 15 BAR****APTCU80C****Technical data**

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**



**RPM**  
Velocità  
**3.000 min<sup>-1</sup>**



**Max. axial load**  
Max. carico assiale  
**2.400 N**



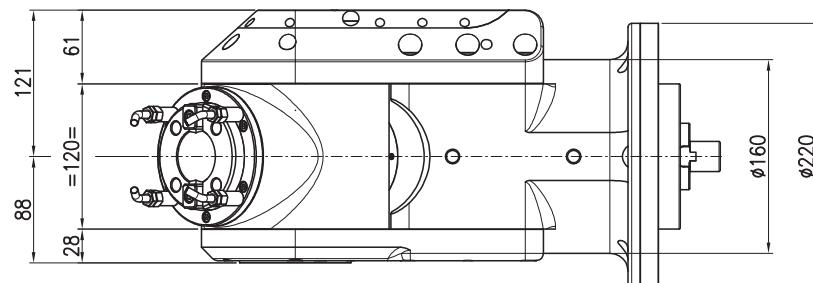
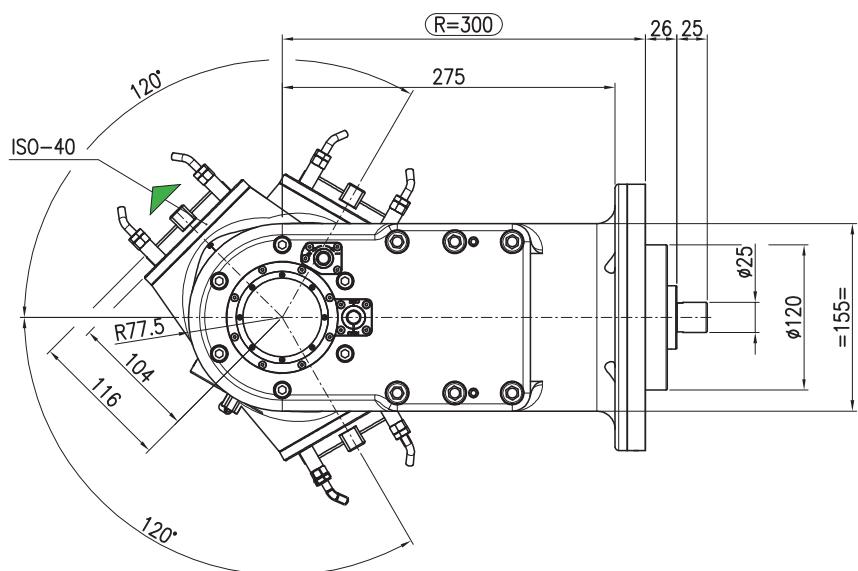
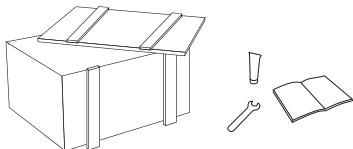
**Torque**  
Momento torcente  
**100 Nm**



**Weight**  
Peso  
**72 kg**



**Collet**  
Pinza  
**ISO/BT 40**

**\* STANDARD EQUIPMENT**  
includes:

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM

**Option / Opzione**

bar max

**12**

Coolant through spindle  
Adduzione refrigerante interna

**HSK 63**

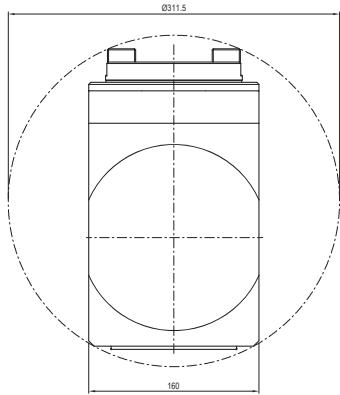
Quick Change  
Attacco rapido

**OIL**

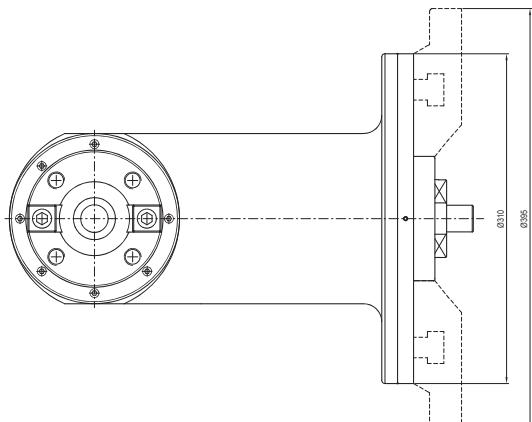
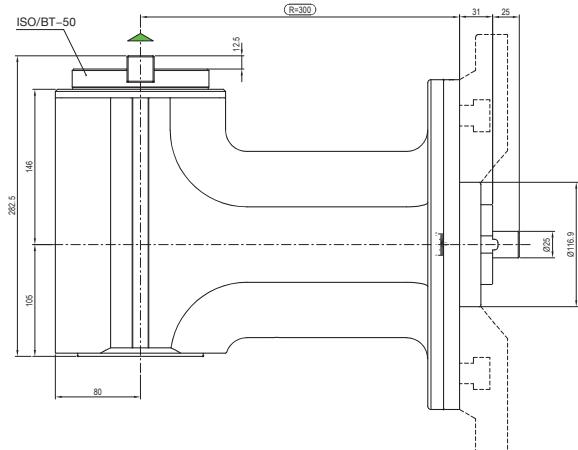
Oil lubrication  
Lubrificazione

# T90-10 Neo IC

## Technical data Caratteristiche tecniche

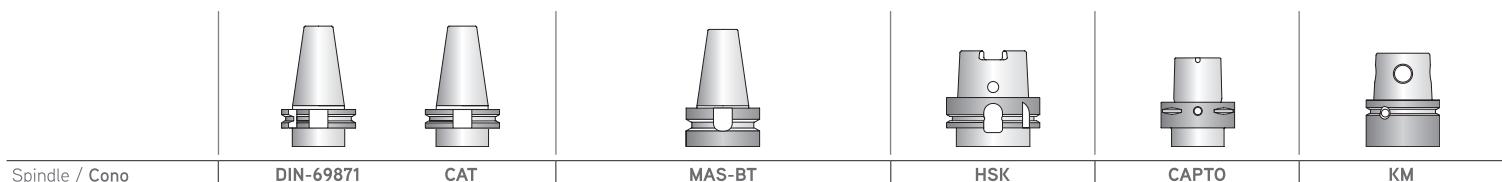
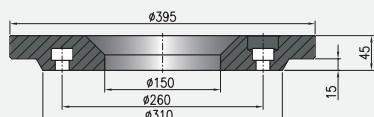


Minimum diameter without tool  
Diametro minimo senza utensile



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

### FLANGIA T90-10



### Option / Opzione



bar max  
100

Coolant through spindle  
Refrigerante interno



min<sup>-1</sup>  
4.000

RPM max.  
RPM max.

## TDU-10

## APTDU10C

## Technical data

Caratteristiche tecniche



Ratio

Rapporto  
1:1

RPM

Velocità  
3.000 min<sup>-1</sup>

Max. axial load

Max. carico assiale  
3.300 N

Torque

Momento torcente  
250 Nm

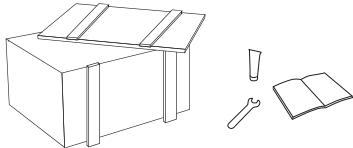
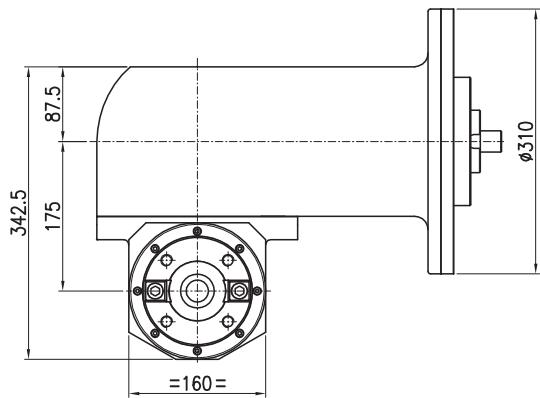
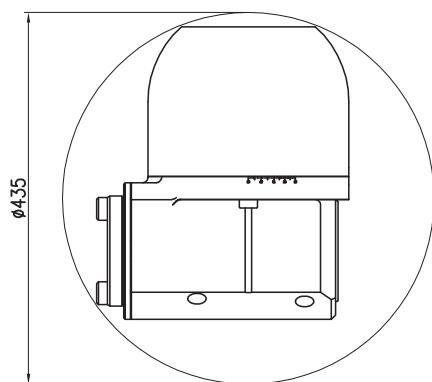
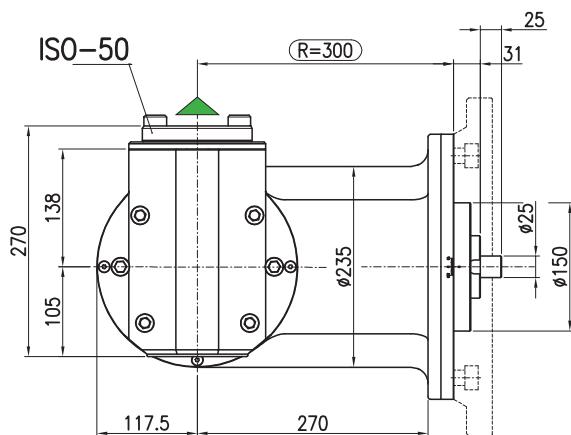
Weight

Peso  
121 kg

Collet

Pinza  
ISO/BT 50

## \* STANDARD EQUIPMENT includes:

Minimum diameter without tool  
Diametro minimo senza utensile

▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM
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## Option / Opzione



bar max

12

Coolant through spindle  
Adduzione refrigerante interna

HSK 100

Quick Change  
Attacco rapido

AIR/OIL

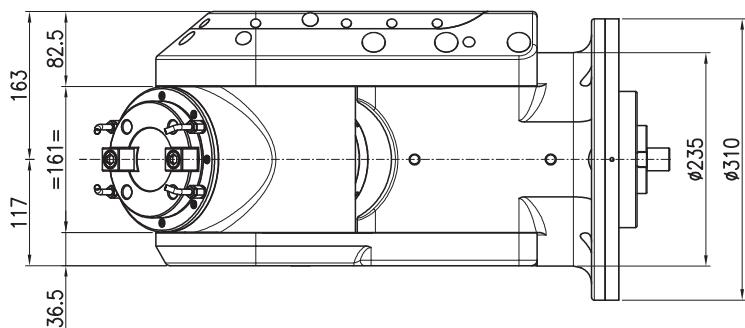
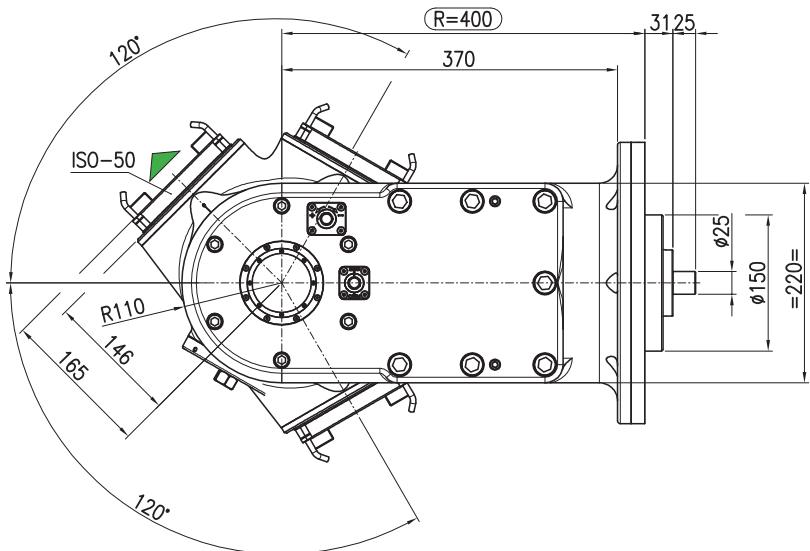
Air / Oil lubrication  
Lubrificazione aria / olio

# TCU-10 R.I 15 BAR

APTCU10C

## Technical data

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1:1**

**RPM**  
Velocità  
**3.000 min<sup>-1</sup>**

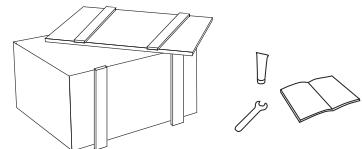
**Max. axial load**  
Max. carico assiale  
**3.300 N**

**Torque**  
Momento torcente  
**250 Nm**

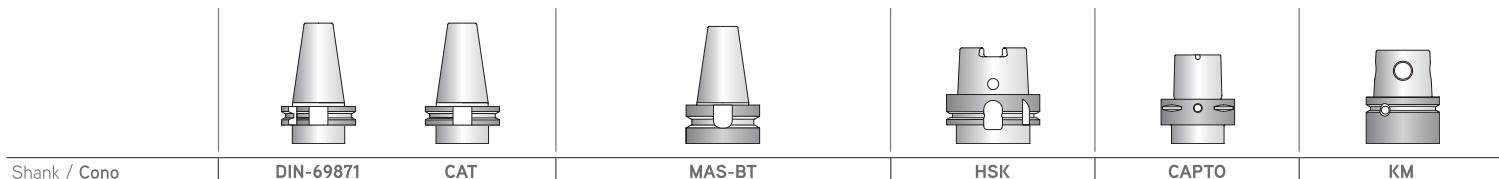
**Weight**  
Peso  
**194 kg**

**Collet**  
Pinza  
**ISO/BT 50**

\* STANDARD EQUIPMENT  
includes:



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino



### Option / Opzione



bar max

12

Coolant through spindle  
Adduzione refrigerante interna



HSK 100

Quick Change  
Attacco rapido



OIL

Oil lubrication  
Lubrificazione

## TR90-15

## APTTR9015C

## Technical data

Caratteristiche tecniche



**Ratio**  
Rapporto  
**1.875:1**



**RPM**  
Velocità  
**2.500 min<sup>-1</sup>**



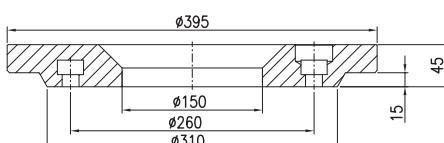
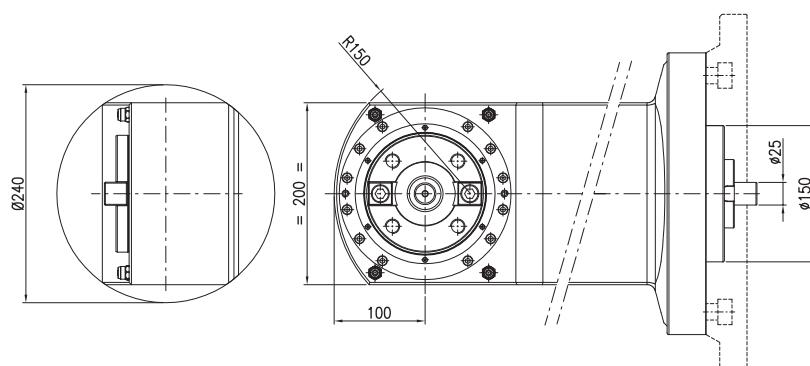
**Max. axial load**  
Max. carico assiale  
**3.900 N**



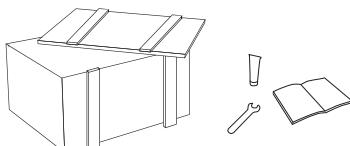
**Torque**  
Momento torcente  
**600 Nm**



**Collet**  
Pinza  
**ISO/BT 50**



\* **STANDARD EQUIPMENT**  
includes:



▲ Direction of rotation same as machine spindle / senso di rotazione uguale al mandrino

Shank / Cono	DIN-69871	CAT	MAS-BT	HSK	CAPTO	KM

## Option / Opzione



bar max  
**12**

Coolant through spindle  
Adduzione refrigerante interna

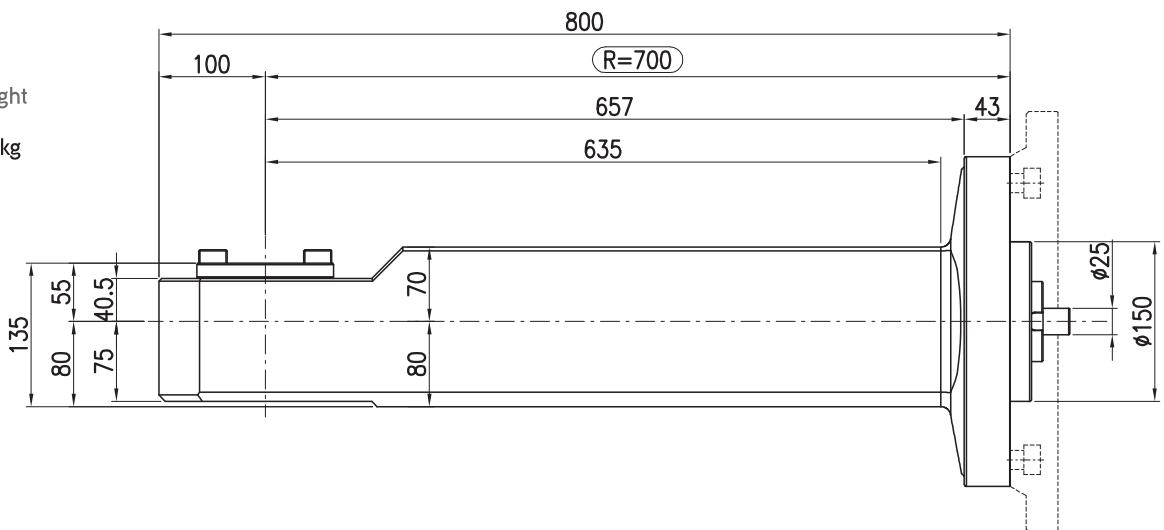
**HSK 63**

Quick Change  
Attacco rapido

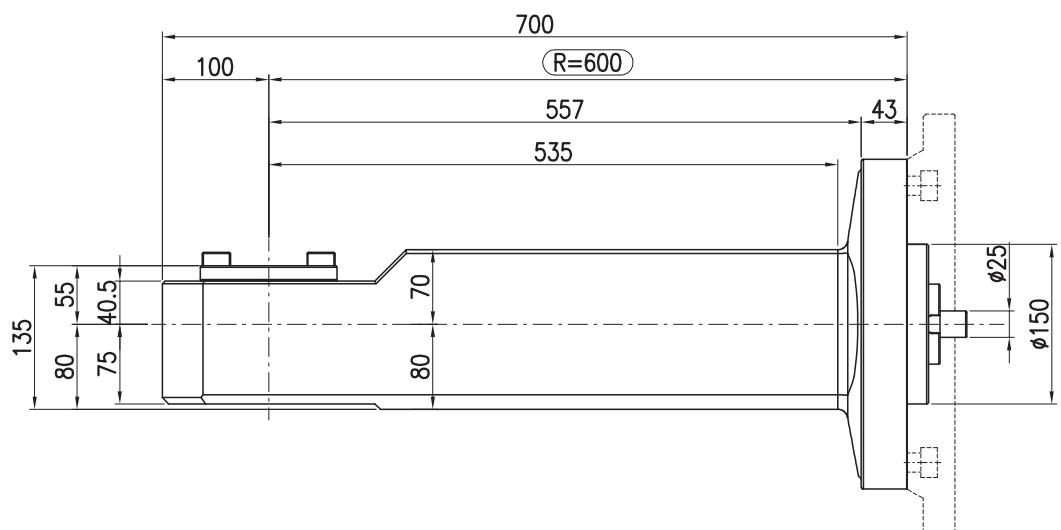
**AIR/OIL**

Air / Oil lubrication  
Lubrificazione aria / olio

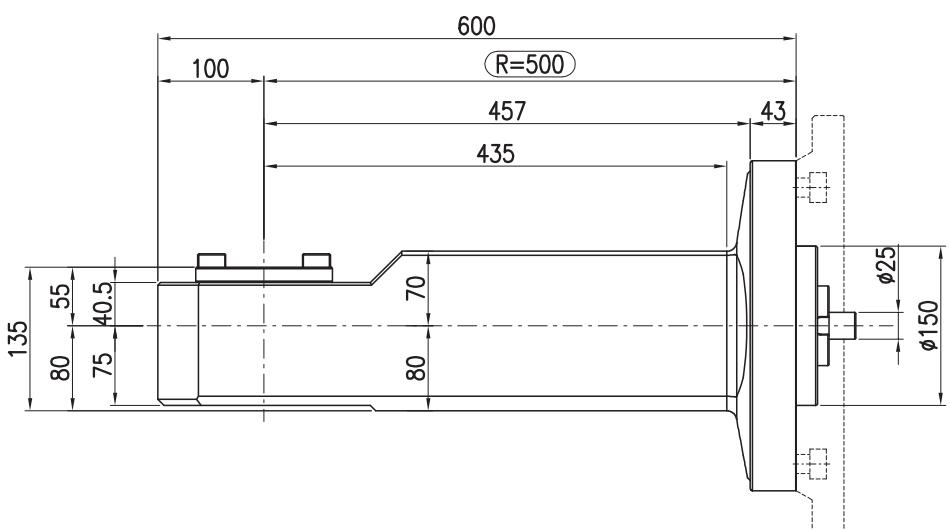
 Weight  
Peso  
**180 kg**



 Weight  
Peso  
**140 kg**



 Weight  
Peso  
**110 kg**





RA 100

OH502761

CE

MAX20.000mm

1/1  
8/16

# I nostri **SERVIZI.**

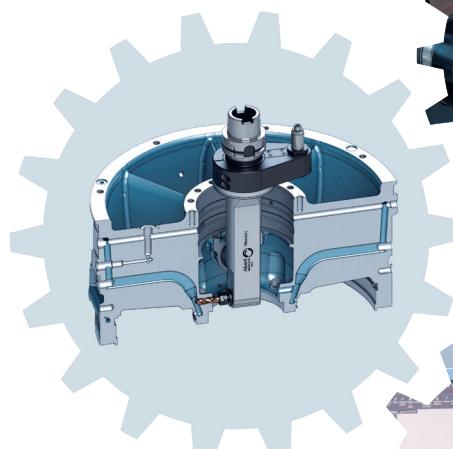
## Our services

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### **DATABASE 3D**

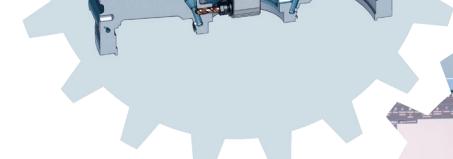
*Database 3D*



### **STOP BLOCK**

studio applicativo

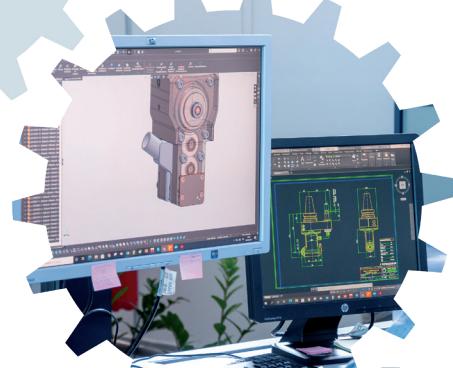
*STOP BLOCK  
application study*



### **ANALISI FATTIBILITÀ**

di lavorazione

*Feasibility study design  
and technical proposal*



### **CREAZIONE 3D PRELIMINARE**

simulazione nel pezzo

*Preliminary 3d proposal simulation  
in the workpiece*



### **VERIFICA BASE** parametri lavorazione

*Simple check of parameters*



### **VIDEO TUTORIAL** corretto utilizzo teste

*Tutorial video use of the product*



### **HEADS4FUTURE** sito customer service

*HEADS4FUTURE customer service site*



### **LIVE CHAT**

*Live chat*



### **QR CODE** istruzioni sul prodotto

*QR code instructions on product*



### **ASSISTENZA IN LOCO** installazione c/o cliente

*On site service installation at customer site*







Alberti



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