



**BARUFFALDI**  
MACHINE TOOL COMPONENTS

The Partner for Machine Tool  
Builders

## TAB Vertical Axis Servo Turrets **guide**

Catalogo torrette servo ad asse verticale TAB



[WWW.BARUFFALDI.IT](http://WWW.BARUFFALDI.IT)



Rev. 2019



# BARUFFALDI – Since 1927

90 years of Italian mechanical excellence

1927



Eng. Cesare Boffelli

Baruffaldi was founded in Milano (Italy) by Cesare Boffelli, a qualified mechanical engineer, in 1927

1932



Motorcycle Certum from '30s

The Company started the production of brakes for motorcycles in the '30s

1955



Baruffaldi Catalog

In the '50s Baruffaldi expanded its business area manufacturing brakes and clutches for several industrial applications

1972

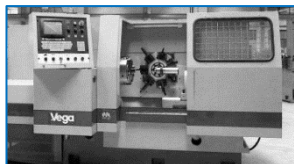


Fiat Truck '70s

With high technology knowledge in brake and clutches The Company became a partner of truck manufacturers

# BARUFFALDI

1975



PPL "Galaxy" turning lathe '70s

In the '70s it began the production of components for Machine Tool industry

1984



Agricultural Tractor '80s

Baruffaldi entered the agricultural and textile machines industries

2007

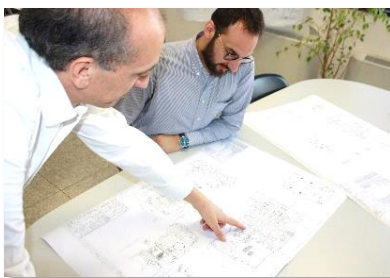


Baruffaldi Production Units

Baruffaldi reorganized the company into 2 new production units located in Milan area. The total covered area is 25.000sqm

Today Baruffaldi, with over 90 years of experience, is one of the leaders in the Machine Tool Industry offering high quality products and services worldwide.

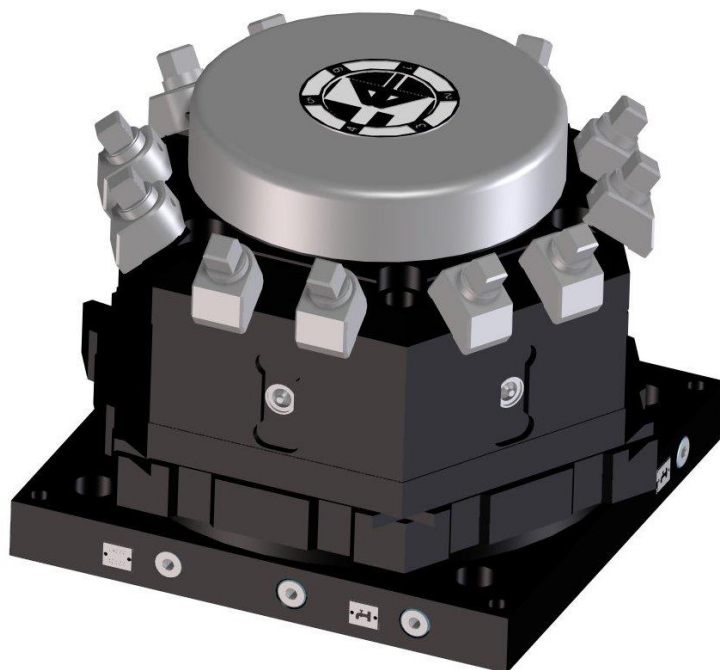
Oggi Baruffaldi, con oltre 90 anni di esperienza, è una dei leader del settore delle Macchine Utensili offrendo prodotti di alta qualità e servizi in tutto il mondo.



**Baruffaldi, The Partner for Machine Tool Builders**

## TAB Vertical Axis Servo Turret - Introduction

### TAB Torretta Servo ad Asse Verticale- Introduzione



They use a **fully hydraulic locking system** and rotate thanks to a **BRUSHLESS SERVO MOTOR** controlled by a **SERVO DRIVE**.

TAB turrets are **bi-directional, without tool holder body lifting** during the indexing rotation, simple design, high performances and request a minimum maintenance.

Turrets can carry 4/6 tool holders as per DIN 69881-1 norms; on demand, they can be supplied with a different number of faces or special body.

#### **Main Characteristics:**

- Minimum indexing times
- Bi-directional
- Locking/Unlocking without tool holder body lifting
- Double sensor for locking and unlocking status
- High rigidity due to the new design
- Turret tool holder body with 4 or 6 positions.
- Possibility to lock the turret in intermediate positions (24 divisions)
- Coolant output flow through valve on the body side (for coolant through tool holder)
- Possibility, upon request, to increase the coolant pressure up to 70bar

Utilizzano un sistema di bloccaggio idraulico e ruotano grazie ad un **MOTORE SERVO** gestito interamente da un **SERVO DRIVE**.

Le torrette TAB sono **bidirezionali, senza alzata** del corpo durante la rotazione, design semplice, alte performance e richiedono una minima manutenzione.

Le torrette sono normalmente costruite per portare 4/6 portautensili, secondo norme DIN 69881-1; a richiesta possono essere fornite con un numero diverso di lati o corpi speciali.

#### **Caratteristiche principali:**

- Minimi tempi di posizionamento
- Bidirezionalità
- Doppio sensore per segnalare il bloccaggio e sbloccaggio torretta
- Sblocco/ Blocco senza alzata del corpo
- Alta rigidità grazie al nuovo design
- Corpo portautensili a 4 o 6 posizioni
- Possibilità di posizionamenti intermedi (24 divisioni)
- Uscita refrigerante attraverso valvole laterali (per uscita refrigerante attraverso il portautensile)
- Possibilità, su richiesta, di raggiungere la pressione dell'uscita refrigerante fino a 70bar

| Size<br><i>Taglia</i>                                                                |      | TAB 210                               | TAB 265 | TAB 340 |      |
|--------------------------------------------------------------------------------------|------|---------------------------------------|---------|---------|------|
| N° of stations (standard)<br><i>N° di posizioni (standard)</i>                       |      | 4                                     |         |         |      |
| N° of stations (optional)<br><i>N° di posizioni (opzionale)</i>                      |      | 6                                     |         |         |      |
| N° of divisions<br><i>N°di divisioni</i>                                             |      | 24                                    |         |         |      |
| Direction of rotation<br><i>Direzione di rotazione</i>                               |      | Bidirectional<br><i>Bidirezionale</i> |         |         |      |
| Max Moment of Inertia<br><i>Momento d'inerzia massimo</i>                            | kgm² | 8                                     | 8       | 30      |      |
| Clamping Force (at 50bar)<br><i>Forza di bloccaggio (a 50bar)</i>                    | N    | 36000                                 | 62000   | 92000   |      |
| Max Tangential Torque<br><i>Massima coppia tangenziale</i>                           | Nm   | 3200                                  | 6560    | 13850   |      |
| Max Overturning Torque (pressing)*<br><i>Massima coppia ribaltante (a premere)*</i>  | Nm   | 6600                                  | 13800   | 29500   |      |
| Max Overturning Torque (lifting)*<br><i>Massima coppia ribaltante (a sollevare)*</i> | Nm   | 2600                                  | 5000    | 10900   |      |
| * Distance from turret axis<br><i>* Distanza dall'asse torretta</i>                  | mm   | 200                                   | 250     | 300     |      |
| Positioning Accuracy<br><i>Precisione di posizionamento</i>                          | deg. | ±4"                                   |         |         |      |
| Accuracy of Repeatability<br><i>Precisione di ripetibilità</i>                       | deg. | ±1,6"                                 |         |         |      |
| Hydraulic Locking Pressure<br><i>Pressione idraulica di serraggio</i>                | bar  | 50 ±5                                 |         |         |      |
| Max coolant pressure (standard)<br><i>Massima pressione refr. (standard)</i>         |      | 20                                    |         |         |      |
| Max coolant pressure (option)<br><i>Massima pressione refr. (opzionale)</i>          |      | 70                                    |         |         |      |
| Ambient temperature range<br><i>Temperatura ambiente</i>                             | °C   | 0-40                                  |         |         |      |
| Protection degree<br><i>Gradi di protezione</i>                                      | IP   | 65                                    |         |         |      |
| Locking+unlocking time*<br><i>Tempi aperture/chiusura*</i>                           |      | sec.                                  | 0.75    | 0.75    | 0.9  |
| Minimum positioning time<br><i>Tempi posizionamento minimi</i>                       | 90°  | sec.                                  | 0.55    | 0.55    | 0.92 |
|                                                                                      | 180° |                                       | 0.85    | 0.85    | 1.34 |
|                                                                                      | 360° |                                       | 1.45    | 1.45    | 2.2  |
| Turret weight<br><i>Peso torretta</i>                                                |      | Kg                                    | 65      | 115     | 250  |

\*The times could change according to the configuration and characteristic of the hydraulic circuit of the machine

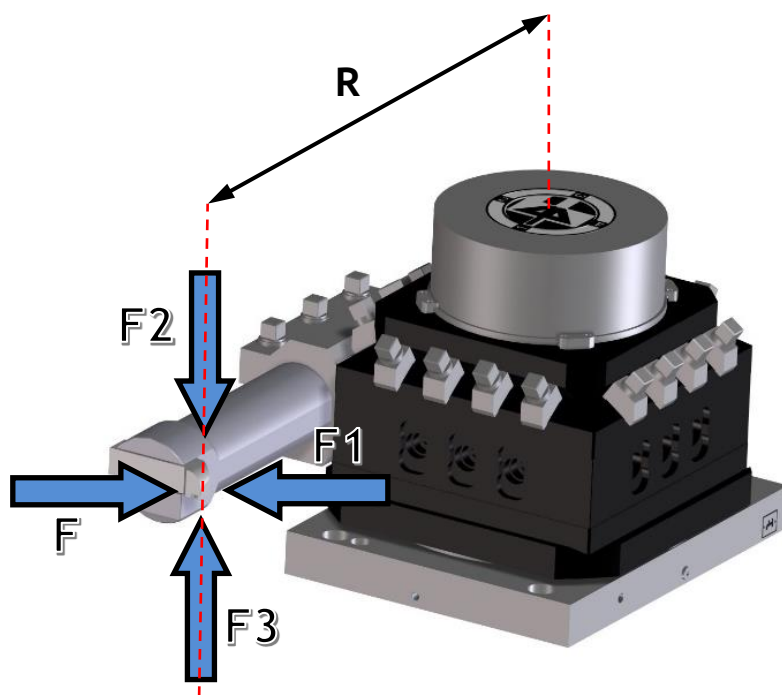
\*I tempi possono variare a secondo della configurazione e delle caratteristiche del circuito idraulico della macchina

## TAB Turrets - Loading capacity

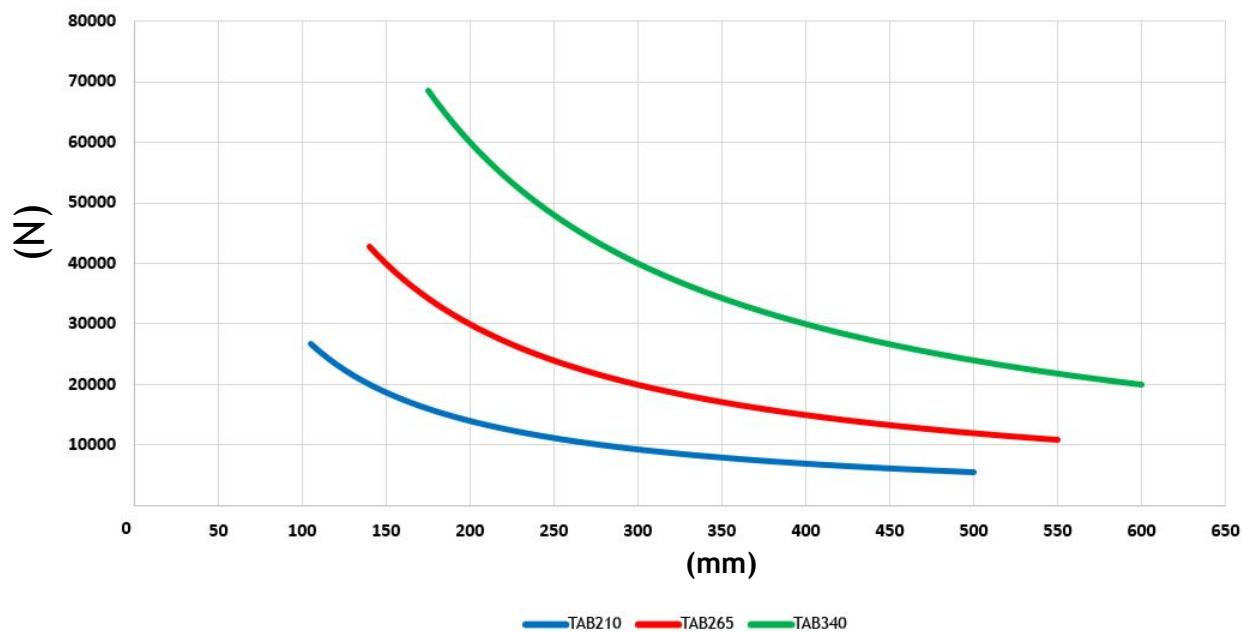
### Torrette TAB - Capacità di carico

Following diagrams refer to forced applied to the turret.  
For loading capacity of static tool holders please refer to  
manufacturer's data sheet.

Il diagramma seguente si riferisce alle forze applicabili  
alla torretta. Per la capacità dei portautensili consultare  
i dati forniti dai rispettivi produttori.



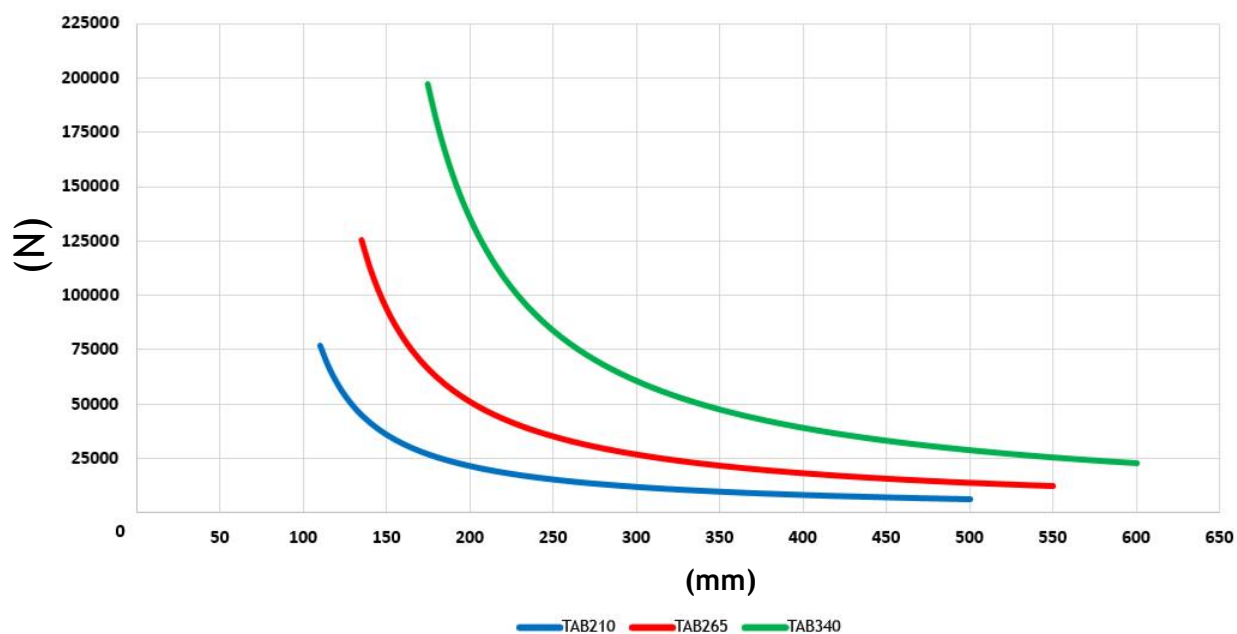
F-F1 Tangential / Tangenziale



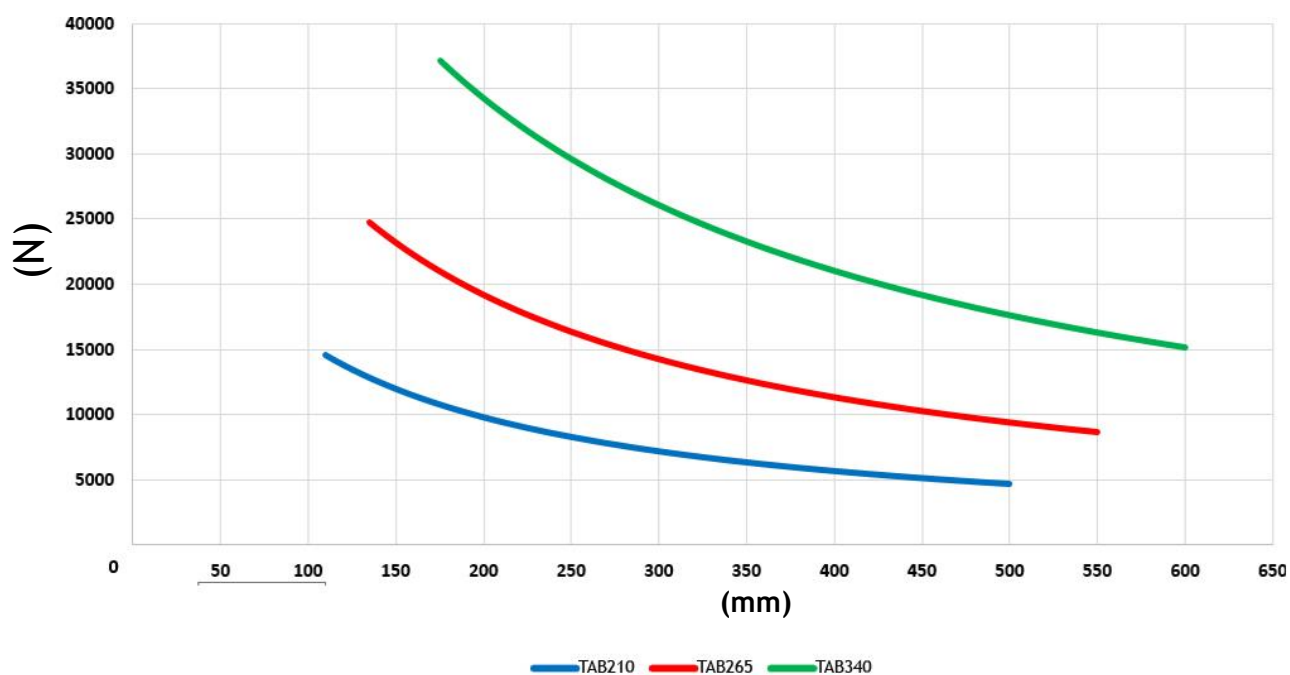
## TAB Turrets - Loading capacity

### Torrette TAB - Capacità di carico

#### F2 To Push / A Premere



#### F3 To Lift / A Sollevare





## TAB Turrets - Order Code

### Torrette TAB - Codice per l'ordinazione

| OUTPUT COOLANT<br>Uscita Refrigerante                              | Code |
|--------------------------------------------------------------------|------|
| WITHOUT OUTPUT COOLANT VALVES<br>Senza Valvole uscita refrigerante | 0    |
| WITH OUTPUT COOLANT VALVES<br>Con Valvole uscita refrigerante      | 1    |

| TOOL HOLDER BODY<br>Corpo portautensili                                                                                                          | Code |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------|
| STANDARD FOR TOOLS DIN 69881-1<br>Standard per utensili tipo DIN 69881-1                                                                         | 0    |
| WITH EXTENDED DOVETAIL FOR TOOLS DIN 69881-1 (only for TAB210/265)<br>Con attacco maggiorato per utensili tipo DIN 69881-1 (solo per TAB210/265) | 1    |
| CYLINDRICAL TOOL HOLDER BODY (SPECIAL)<br>Corpo porta utensili cilindrico (SPECIALE)                                                             | 2    |
| SPECIAL TOOL HOLDER BODY<br>Corpo porta utensili speciale                                                                                        | 3    |

| ELECTRICAL WIRING<br>Cablaggio elettrico                                                                                   | Code |
|----------------------------------------------------------------------------------------------------------------------------|------|
| INTERNAL ELECTRICAL TERMINAL BLOCKS (on request)<br>Morsettiere elettriche interne (su richiesta)                          | 0    |
| ELECTRICAL CONNECTION WITH EXTERNAL BOX (STANDARD)<br>Connessioni elettriche con scatola di derivazione esterna (STANDARD) | 1    |

| VARIOUS<br>Varie                                         | Code |
|----------------------------------------------------------|------|
| HIGH COOLANT PRESSURE<br>Alta pressione refrigerante     | P    |
| TRANSFORMER 400V TO 220V<br>Trasformatore da 400V a 220V | T    |

| TURRET SIZE<br>Taglia torretta | Code |
|--------------------------------|------|
| TAB 210                        | 210  |
| TAB 265                        | 265  |
| TAB 340                        | 340  |

| N° OF DIVISIONS<br>Numero di divisioni | Code |
|----------------------------------------|------|
| 4                                      | 0    |
| 5                                      | 1    |
| 6                                      | 2    |
| 8                                      | 3    |
| 10                                     | 4    |
| 12                                     | 5    |

| VERSION<br>Versione                                                      | Code |
|--------------------------------------------------------------------------|------|
| STANDARD                                                                 | 01   |
| SPECIAL APPLICATION (on request)<br>Applicazioni speciali (su richiesta) | *    |

| WORKING POSITION<br>Posizione di lavoro | Code |
|-----------------------------------------|------|
| P                                       | 0    |
| R                                       | 1    |
| S                                       | 2    |
| S1                                      | 3    |

K 3 8 .



### Torrette TAB - Descrizione di funzionamento

The turret rotates and positions thanks to an internal Brushless Servo Motor (M) fully controlled by our safe and stable Servo Drive type DMS08.

When hydraulic oil pressure acts in chamber (A), locking ring (C) moves upwards, disengaging hirth teeth rings. The turret is thus ready for tool change.

During turret locking sequence, oil pressure acts in chamber (B) and pushes locking ring (C) downward, making hirth teeth rings engage. The turret is ready for machining. Motor (M) drives tool holder body by means of a gear transmission, to achieve tool change.

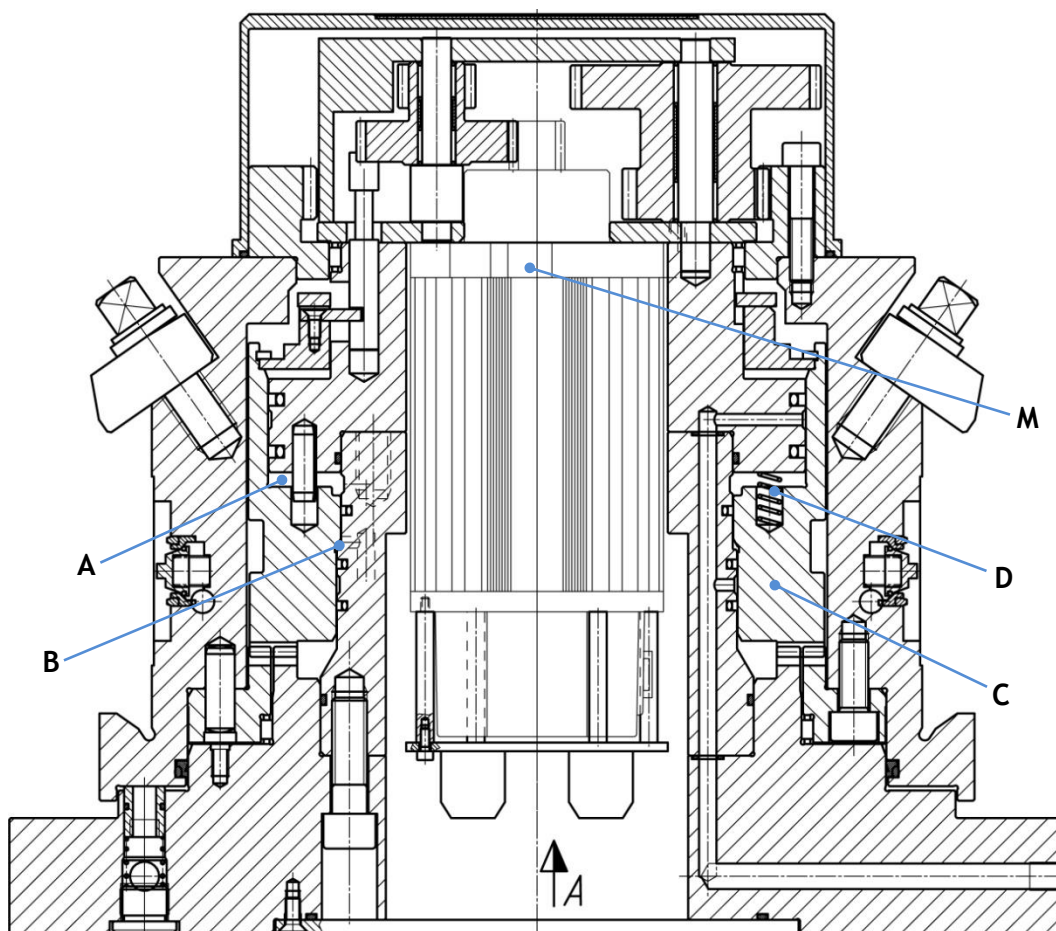
The turret is equipped with safety springs (D) that push locking ring (C) downward when oil pressure is close to zero. This is only a security self-locking in the event of an oil pressure breakdown (for instance due to power failure).

Il corpo portautensili ruota e si posiziona grazie a un Servo Motore interno di tipo Brushless (M) completamente controllato e gestito da un Servo Azionamento di ultima generazione tipo DMS08.

Quando la pressione idraulica dell'olio è nella camera (A) la corona cortocircuitante (C) viene spinta in alto disinnestando le corone hirth. La torretta è quindi pronta per un cambio utensile.

In fase di bloccaggio torretta, la pressione dell'olio nella camera (B) spinge la corona cortocircuitante (C) verso il basso accoppiandosi le corone hirth e serrando la torretta. Di fatto l'unità è pronta per lavorare. Il motore fa girare il corpo portautensili, attraverso la rotazione di una trasmissione ad ingranaggi, realizzando il cambio utensile.

La torretta è munita di molle di sicurezza (D) che di fatto spingono la corona cortocircuitante (C) verso il basso anche quando la pressione idraulica è vicina allo zero. Questo è solo un'auto chiusura di sicurezza della torretta in caso di mancanza della pressione idraulica (dovuta anche eventi di emergenza).



## TAB Turrets - ServoDrive function description

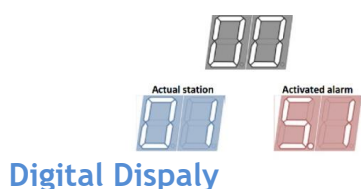
### Torrette TAB - Descrizione di Funzionamento

TAB turrets are supplied with a new generation Drive (type DMS08) that operates the turret by connecting it to the plc and allows its remote control. A digital display shows constantly:

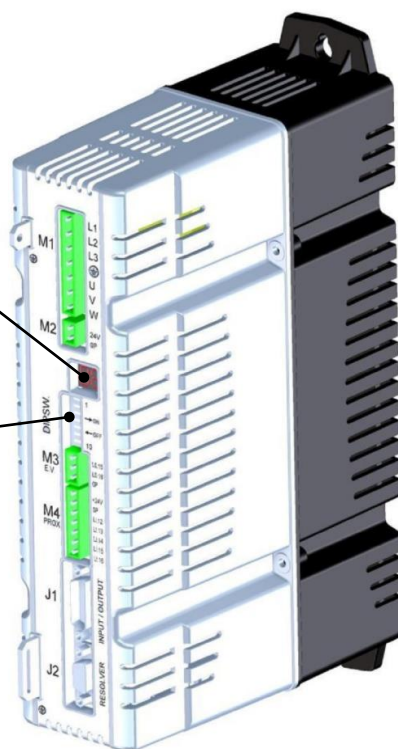
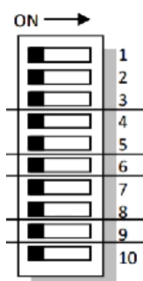
- Drive power supply 220V
- Current position of the turret
- The activation of 26 alarms in case of trouble: this allows to easily find problems that occur during the turret operation
- Position feedback

Le torrette TAB sono fornite con un Servo Azionamento di ultima generazione (tipo DMS08) che permette il controllo remoto dell'unità. Attraverso il suo display elettronico, segnala costantemente:

- Il voltaggio dell'alimentazione (220V)
- Posizione attuale della torretta
- Attivazione di 26 allarmi in caso di problemi permettendo la rapida risoluzione di anomalie
- Feedback di posizione



Modality dipswitch setting

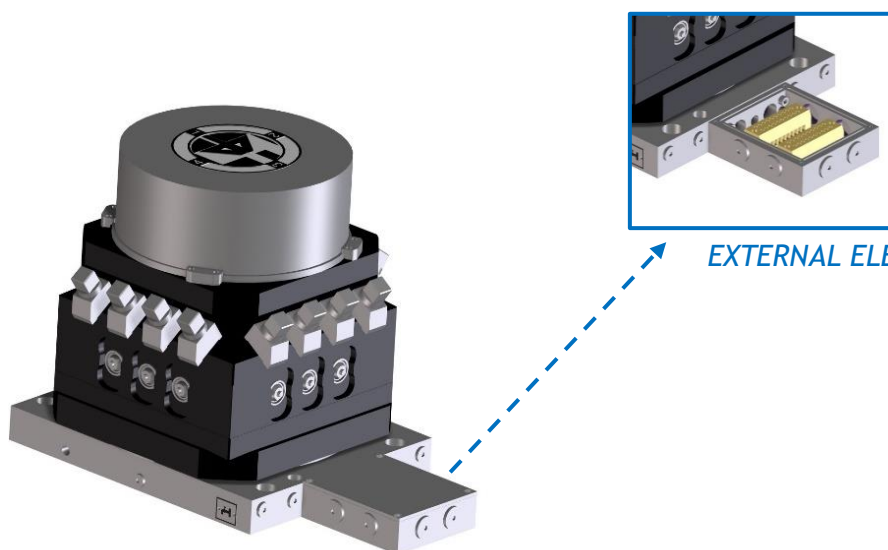
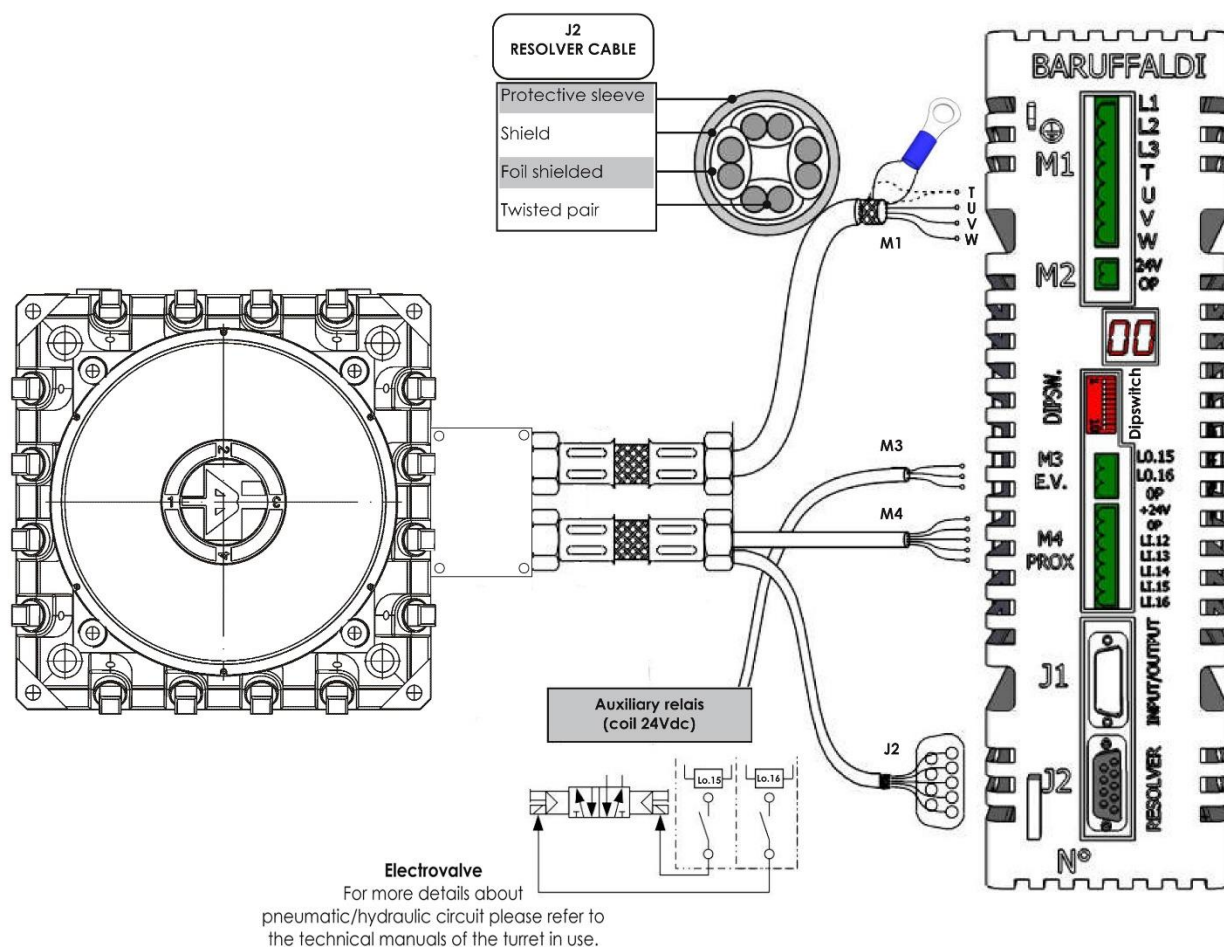


#### MAIN SHOWN ALLARMS

|                                                   |                                                            |
|---------------------------------------------------|------------------------------------------------------------|
| Input Power Supply Error                          | <i>Errore tensione in entrata</i>                          |
| Position error                                    | <i>Errore posizionamento</i>                               |
| No signal from unlock proximity switch            | <i>Mancanza segnale proximity apertura</i>                 |
| No signal from lock proximity switch              | <i>Mancanza segnale proximity chiusura</i>                 |
| No signal from Zero proximity switch              | <i>Nessun segnale dal proximity di Zero</i>                |
| During locking sequence the turret remains opened | <i>Durante sequenza chiusura la torretta rimane aperta</i> |
| Zero search error                                 | <i>Errore ricerca di zero</i>                              |
| Time out rotation (30")                           | <i>Time out rotazione (30")</i>                            |
| Resolver failure                                  | <i>Errore resolver</i>                                     |
| Motor PTC                                         | <i>Termica motore</i>                                      |
| Wrong parity bit setting                          | <i>Errore parità</i>                                       |
| A non-existing position has been called           | <i>Posizione inesistente richiesta</i>                     |

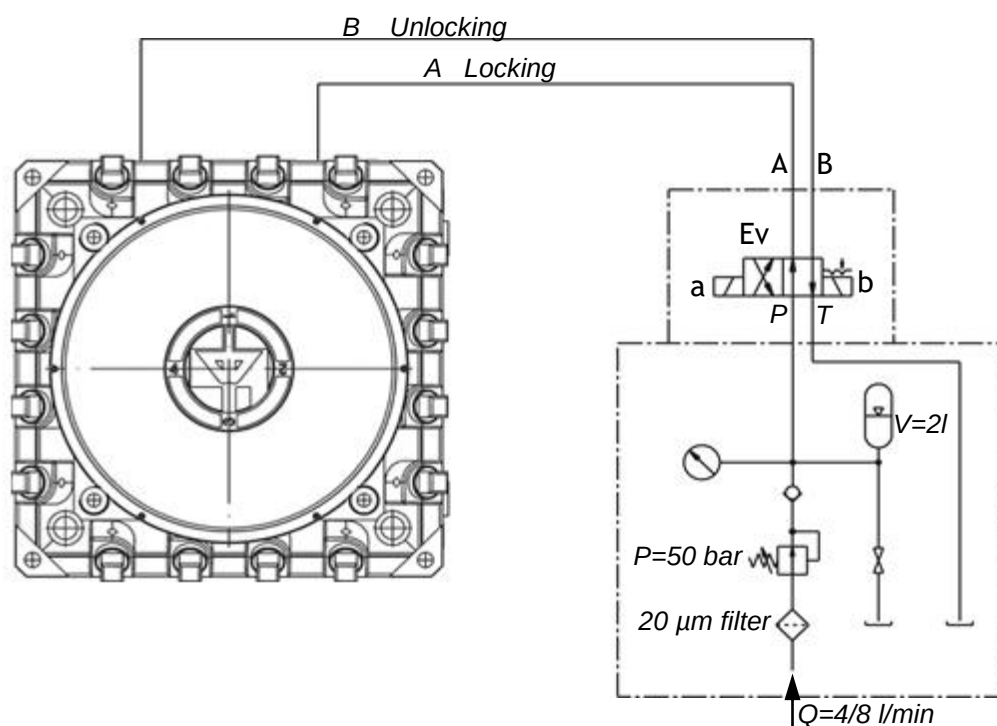
## TAB Turrets - Electrical connections

### Torrette TAB - Connessioni elettriche



## TAB Turrets - Hydraulic connections

### Torrette TAB - Conessioni idrauliche



|                          |                    |                 | TAB210    | TAB265 | TAB340 |
|--------------------------|--------------------|-----------------|-----------|--------|--------|
| Working pressure         | bar                |                 | 50 bar ±3 |        |        |
| Filtering                | µm                 |                 | 20        |        |        |
| Oil viscosity            | mm <sup>2</sup> /s |                 | 32-36     |        |        |
| Pressure - switch set at | bar                |                 | 50        |        |        |
| Turret oil connection    | G                  |                 | 1/4"      |        |        |
| Pipe diameter*           | G                  |                 | 3/4"      |        |        |
| Required oil volume      | A Locking          | cm <sup>3</sup> | 40        | 63     | 112    |
|                          | B Unlocking        |                 | 5         | 11     | 21     |

The locking and unlocking times of the turret are influenced by the hydraulic circuit characteristics (pipes diameter, electrovalve and fittings size)

I tempi di apertura e chiusura torretta sono fortemente influenzati dalla conformazione del circuito idraulico (diametro tubi, taglia elettrovalvola e raccordi)



The standard TAB turrets can be used with a coolant pressure up to 20 bar.

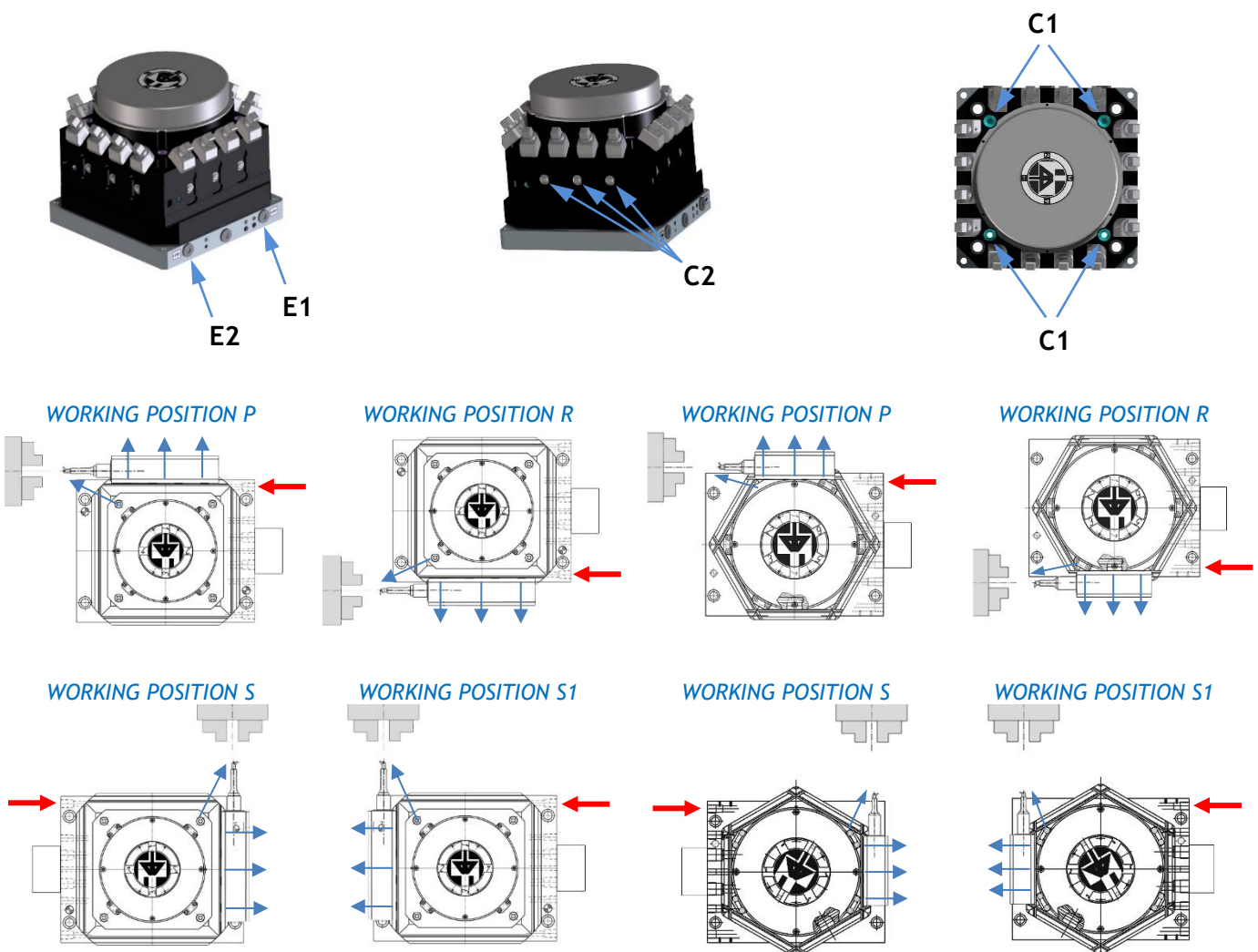
The coolant flow can come out through the holes (C1) on top of the turret, using flexible pipes, or from the valves (C2) on the side of the turret (only when the tool holder is assembled).

On request is possible to reach coolant pressure up to 70 bar (only from output C1).

La TAB standard può essere utilizzata con la pressione del liquido refrigerante fino a 20bar.

Il flusso refrigerante può fuoriuscire attraverso i fori (C1) dall'alto della torretta, utilizzando tubi flessibili, o dalle valvole laterali (C2) sul lato torretta (solo quando il portautensile è montato).

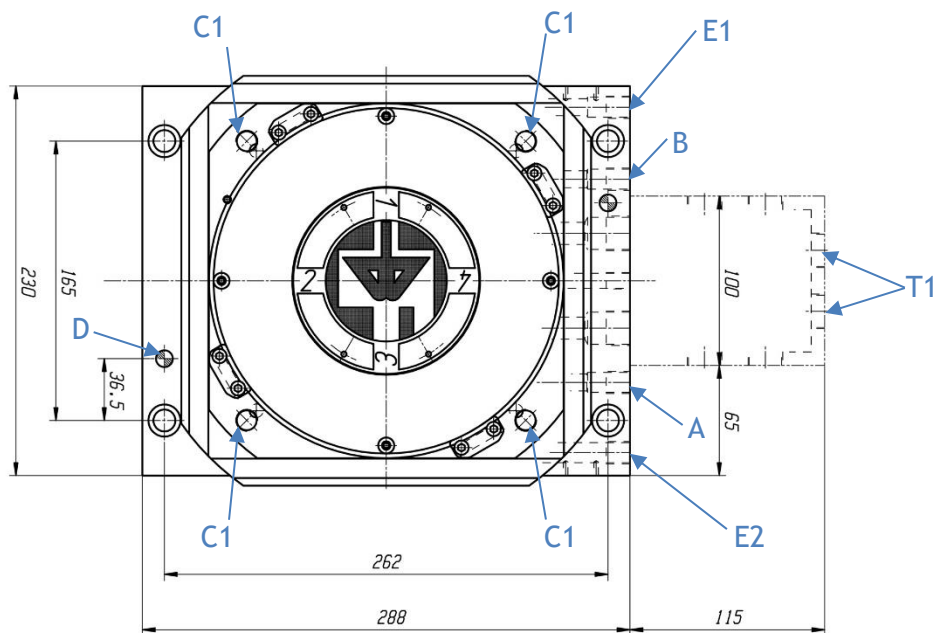
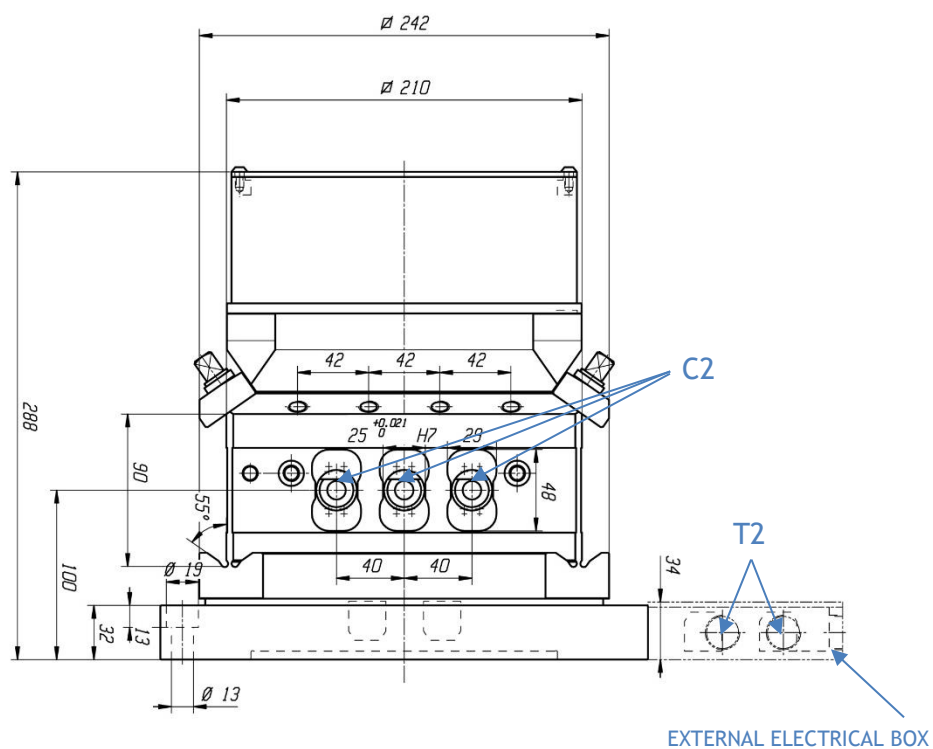
Su richiesta si può raggiungere la pressione di uscita del liquido refrigerante fino a 70 bar (solo dai fori d'uscita C1).



| TURRET SIZE | INPUT (E1-E2)<br>HOLE SIZE | OUTPUT (C1)<br>HOLE SIZE | PRESSURE (standard) | PRESSURE (Option)* |
|-------------|----------------------------|--------------------------|---------------------|--------------------|
| TAB210      | G 1/4"                     | G 1/4"                   | 20bar               | 70bar*             |
| TAB265      | G 3/8"                     | G 3/8"                   |                     |                    |
| TAB340      | G 3/4"                     | G 3/4"                   |                     |                    |

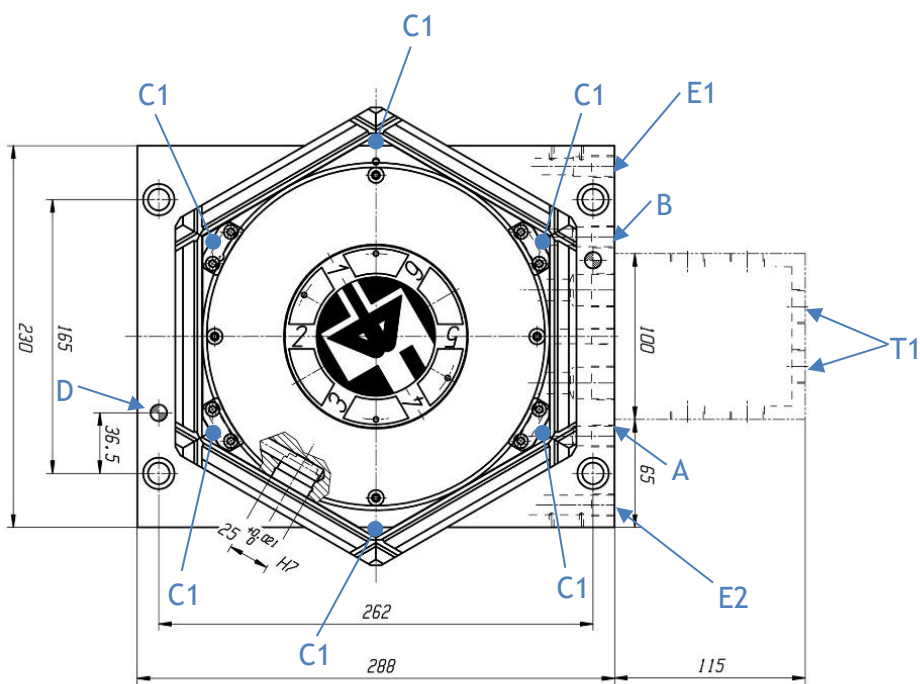
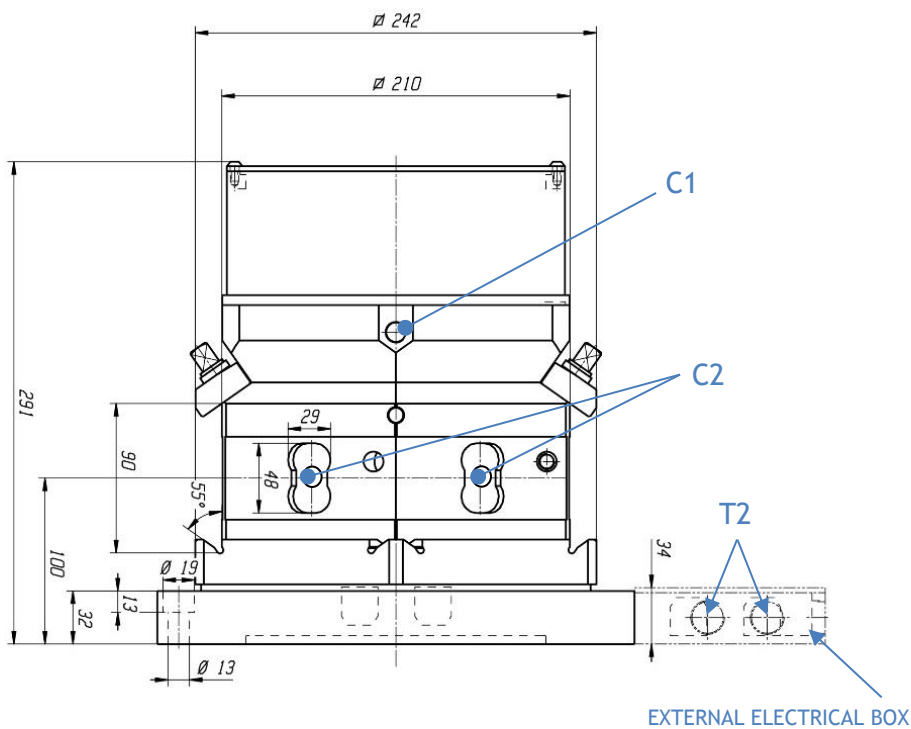
\* Only from output holes C1 / Solo da uscite refrigerante C1

## TAB210 4 Positions Turrets - Drawings



- A-B Hydraulic connections 1/4" GAS
- E1-E2 Coolant inlet 1/4" GAS
- T1-T2 Electrical connection PG 13,5
- C1 Coolant outlet 1/4" GAS
- C2 Coolant outlet through valves
- D Holes for reference pins

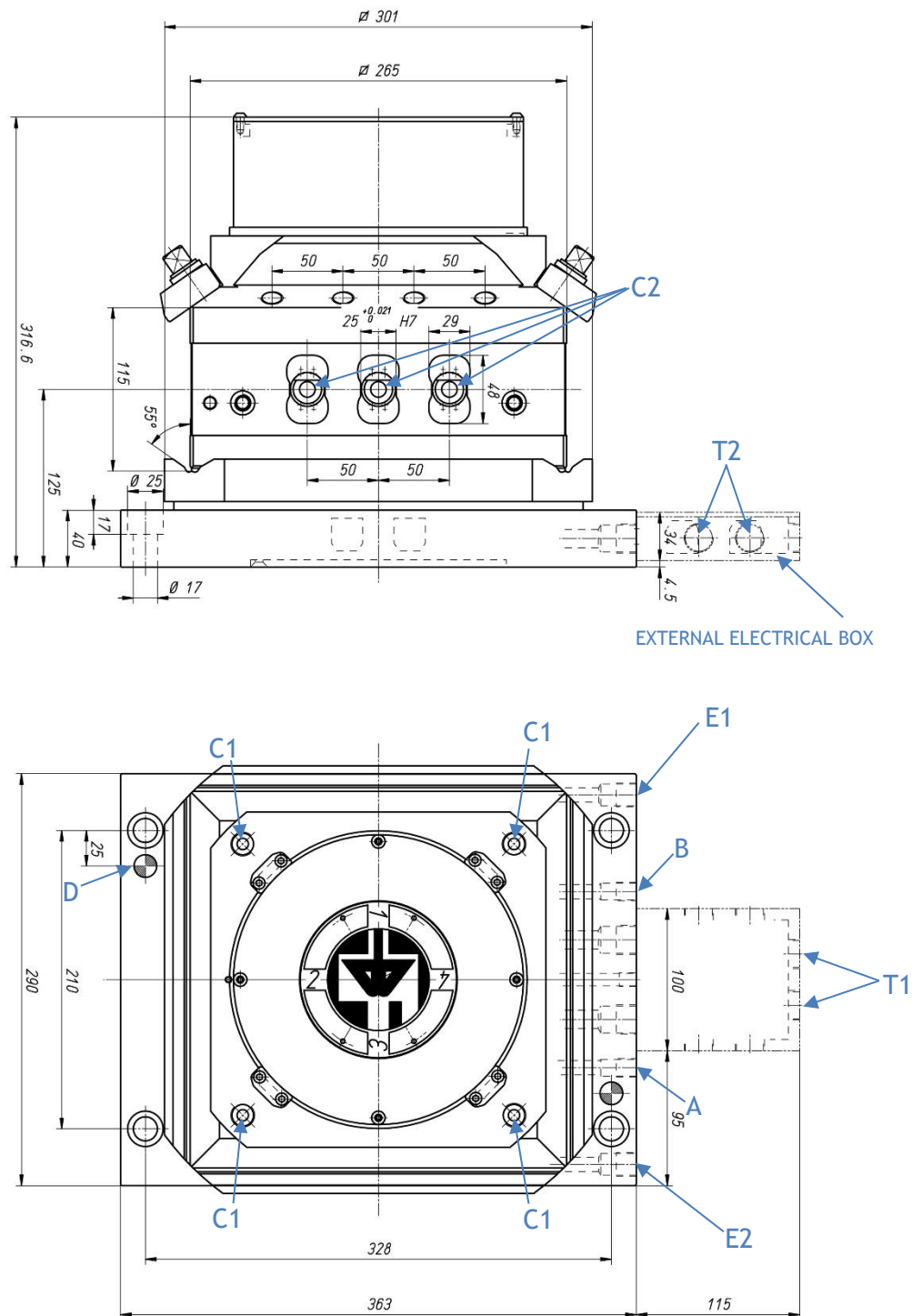
## TAB210 6 Positions Turrets - Drawings



- |       |                                |
|-------|--------------------------------|
| A-B   | Hydraulic connections 1/4" GAS |
| E1-E2 | Coolant inlet 1/4" GAS         |
| T1-T2 | Electrical connection PG 13,5  |
| C1    | Coolant outlet 1/4" GAS        |
| C2    | Coolant outlet through valves  |
| D     | Holes for reference pins       |

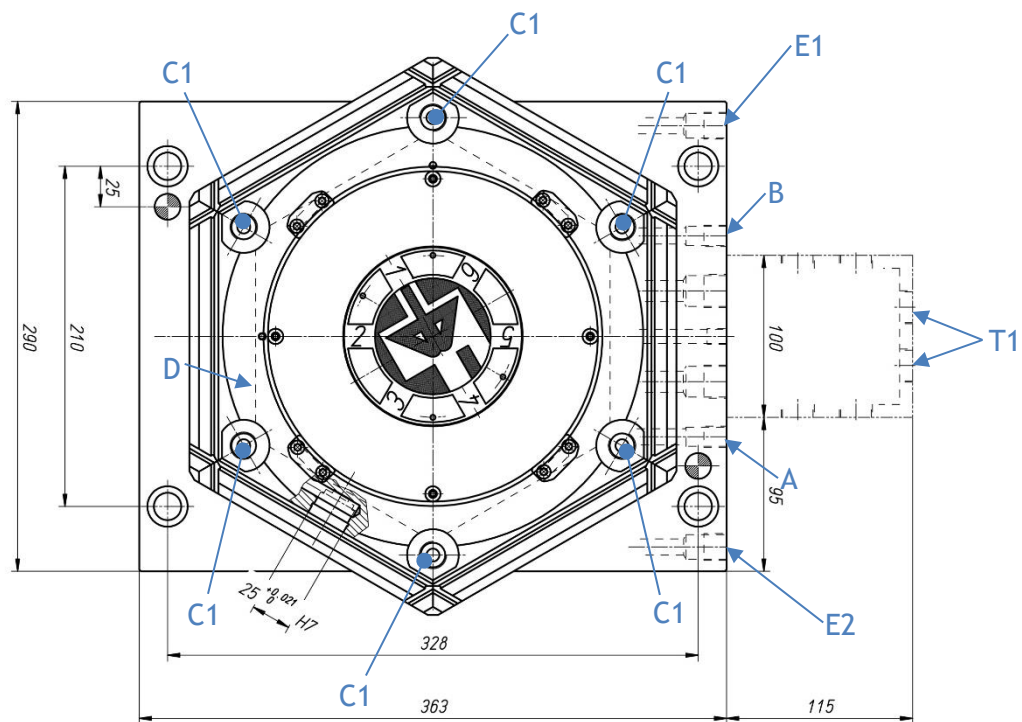
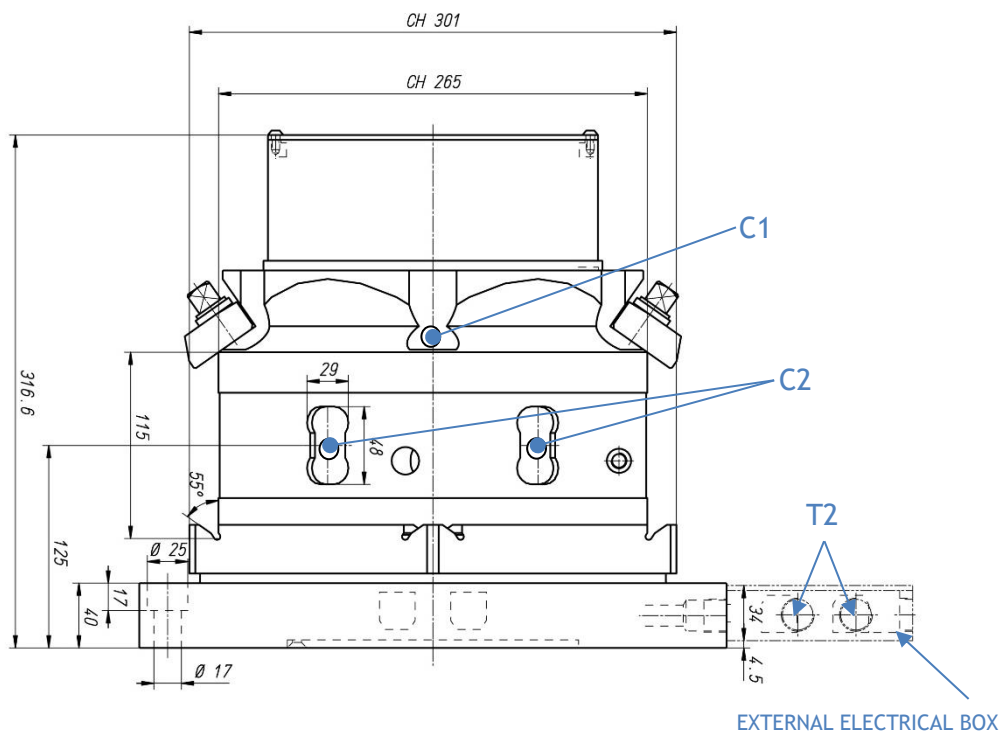


## TAB265 4 Positions Turrets - Drawings



- A-B Hydraulic connections 1/4" GAS
- E1-E2 Coolant inlet 3/8" GAS
- T1-T2 Electrical connection PG 13,5
- C1 Coolant outlet 3/8" GAS
- C2 Coolant outlet through valves
- D Holes for reference pins

## TAB265 6 Positions Turrets - Drawings

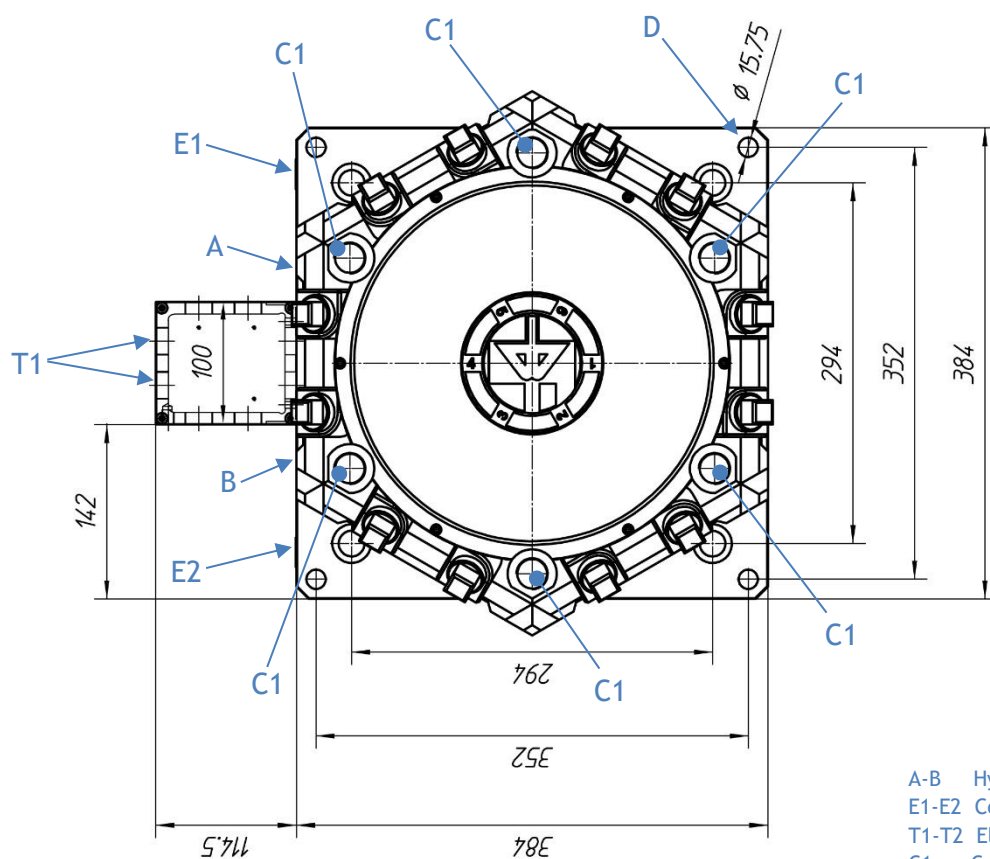
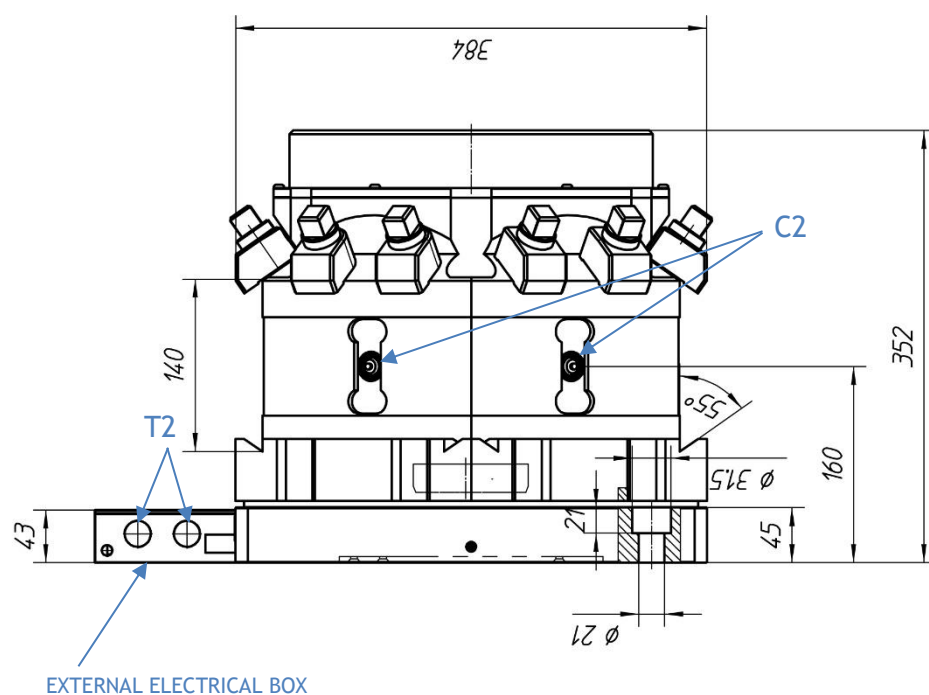


- A-B Hydraulic connections 1/4" GAS
- E1-E2 Coolant inlet 3/8" GAS
- T1-T2 Electrical connection PG 13,5
- C1 Coolant outlet 3/8" GAS
- C2 Coolant outlet through valves
- D Holes for reference pins



- |       |                                |
|-------|--------------------------------|
| A-B   | Hydraulic connections 1/4" GAS |
| E1-E2 | Coolant inlet 3/4" GAS         |
| T1-T2 | Electrical connection PG 13,5  |
| C1    | Coolant outlet 3/4" GAS        |
| C2    | Coolant outlet through valves  |
| D     | Holes for reference pins       |

## TAB340 6 Positions Turrets - Drawings



- A-B Hydraulic connections 1/4" GAS
- E1-E2 Coolant inlet 3/4" GAS
- T1-T2 Electrical connection PG 13,5
- C1 Coolant outlet 3/4" GAS
- C2 Coolant outlet through valves
- D Holes for reference pins

## TAB Turrets - Accessories

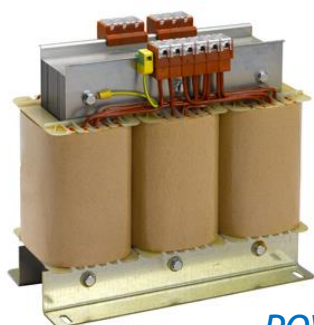
---

### Torrette TAB - Accessori



*TOOL HOLDERS (external and internal cooling)*

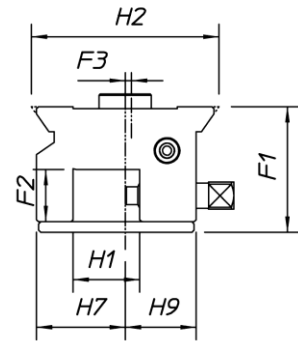
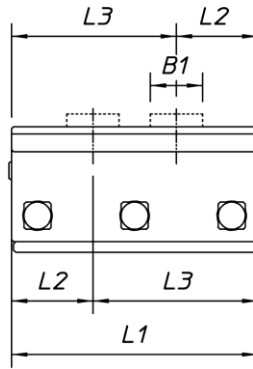
PG21



*POWER TRANSFORMER 400v to 220V*

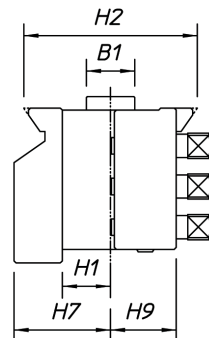
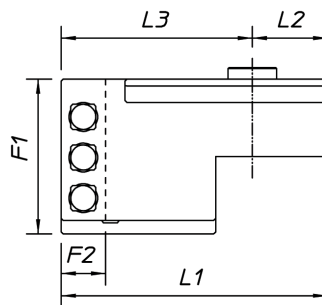
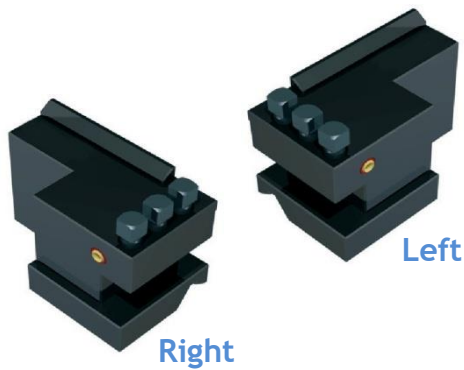
PG26

## Axial Tool Holder - Portautensile Assiale



|                    | H1    | H2  | H7   | H9 | F1 | F2 | F3  | L1  | L2 | L3  | B1 |  |  |
|--------------------|-------|-----|------|----|----|----|-----|-----|----|-----|----|--|--|
| <b>SHORT TYPE</b>  |       |     |      |    |    |    |     |     |    |     |    |  |  |
| 736.0000.101/2-R   | 16    | 56  | 26   | 19 | 39 | 18 | -   | 84  | 34 | 50  | 16 |  |  |
| 736.1100.101/2-R   | 20    | 56  | 30   | 15 | 39 | 18 | 4   | 84  | 34 | 50  | 16 |  |  |
| 736.2000.101/2-R   | 20/25 | 72  | 34   | 26 | 47 | 22 | 0/5 | 98  | 29 | 69  | 20 |  |  |
| 736.3200.101/2-R   | 25/32 | 72  | 39   | 21 | 47 | 23 | 5   | 98  | 29 | 69  | 20 |  |  |
| 736.4000.101/2-R   | 25    | 90  | 42,5 | 34 | 52 | 25 | -   | 118 | 39 | 79  | 25 |  |  |
| 736.6000.101/2-R   | 32    | 115 | 55   | 47 | 52 | 32 | -   | 118 | 49 | 69  | 25 |  |  |
| 736.8000.101/2-R   | 40    | 140 | 67,5 | 57 | 63 | 40 | -   | 144 | 59 | 85  | 25 |  |  |
| <b>LONG TYPE</b>   |       |     |      |    |    |    |     |     |    |     |    |  |  |
| 736.4000.101/2-S-R | 25    | 90  | 42,5 | 34 | 55 | 25 |     | 160 | 60 | 100 | 25 |  |  |
| 736.6000.101/2-S-R | 32    | 115 | 55   | 47 | 54 | 32 |     | 175 | 50 | 125 | 25 |  |  |

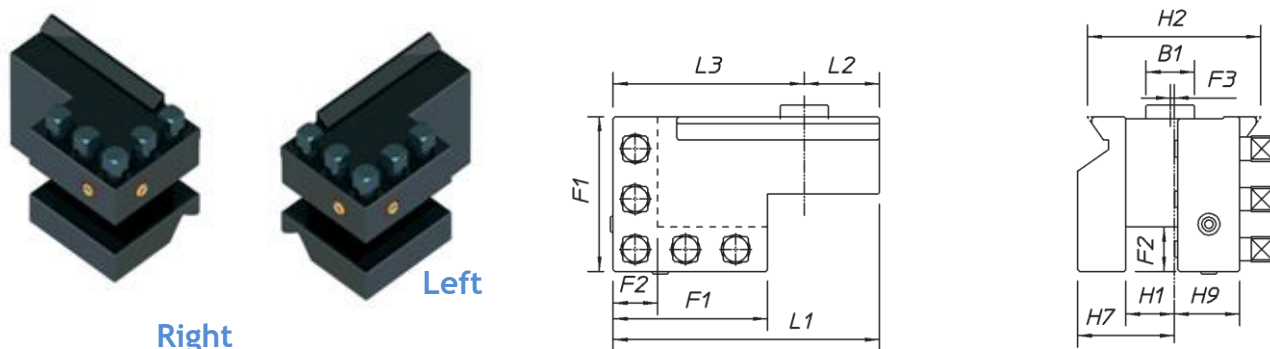
## Radial Tool Holder - Portautensile Radiale



|                        | H1 | H2  | H7   | H9 | F1  | F2 | F3 | L1  | L2 | L3  | B1 |  |  |
|------------------------|----|-----|------|----|-----|----|----|-----|----|-----|----|--|--|
| <b>LEFT HAND TYPE</b>  |    |     |      |    |     |    |    |     |    |     |    |  |  |
| 736.4000.021-R         | 25 | 90  | 50   | 34 | 72  | 25 |    | 138 | 39 | 99  | 25 |  |  |
| 736.8000.021-R         | 40 | 140 | 80   | 57 | 110 | 40 |    | 209 | 59 | 150 | 25 |  |  |
| <b>RIGHT HAND TYPE</b> |    |     |      |    |     |    |    |     |    |     |    |  |  |
| 736.0000.022-R         | 16 | 56  | 36   | 19 | 50  | 18 |    | 94  | 34 | 60  | 16 |  |  |
| 736.4000.022-R         | 25 | 90  | 50   | 34 | 72  | 25 |    | 138 | 39 | 99  | 25 |  |  |
| 736.6000.022-R         | 32 | 115 | 62,5 | 47 | 85  | 32 |    | 185 | 43 | 142 | 25 |  |  |

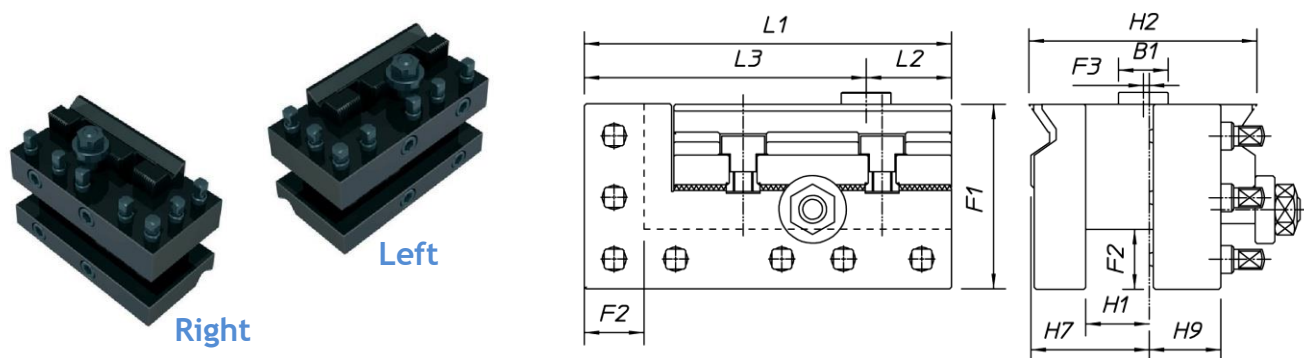


## Radial and Axial Tool Holder - Portautensile Radiale e Assiale



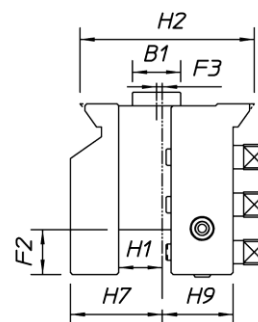
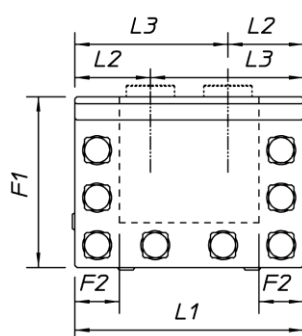
|                 | H1    | H2  | H7   | H9 | F1  | F2 | F3  | L1  | L2 | L3  | B1 |  |  |
|-----------------|-------|-----|------|----|-----|----|-----|-----|----|-----|----|--|--|
| LEFT HAND TYPE  |       |     |      |    |     |    |     |     |    |     |    |  |  |
| 736.1100.011-R  | 16/20 | 56  | 40   | 15 | 50  | 18 | 0/4 | 94  | 34 | 60  | 16 |  |  |
| 736.3200.011-R  | 5     | 72  | 47,5 | 21 | 63  | 23 | 5   | 102 | 29 | 73  | 20 |  |  |
| 736.4000.011-R  | 25    | 90  | 50   | 34 | 80  | 25 | -   | 138 | 39 | 99  | 25 |  |  |
| 736.6000.011-R  | 32    | 115 | 62,5 | 47 | 94  | 32 | -   | 185 | 43 | 142 | 25 |  |  |
| 736.8000.011-R  | 40    | 140 | 80   | 57 | 110 | 40 | -   | 209 | 59 | 150 | 25 |  |  |
| RIGHT HAND TYPE |       |     |      |    |     |    |     |     |    |     |    |  |  |
| 736.1100.012-R  | 16/20 | 56  | 40   | 15 | 50  | 18 | 0/4 | 94  | 34 | 60  | 16 |  |  |
| 736.2000.012-R  | 20    | 72  | 42,5 | 26 | 63  | 22 | -   | 102 | 29 | 73  | 20 |  |  |
| 736.3200.012-R  | 25    | 72  | 47,5 | 21 | 63  | 23 | 5   | 102 | 29 | 73  | 20 |  |  |
| 736.4000.012-R  | 25    | 90  | 50   | 34 | 80  | 25 | -   | 138 | 39 | 99  | 25 |  |  |
| 736.6000.012-R  | 32    | 115 | 62,5 | 47 | 94  | 32 | -   | 185 | 43 | 142 | 25 |  |  |
| 736.8000.012-R  | 40    | 140 | 80   | 57 | 110 | 40 | -   | 209 | 59 | 150 | 25 |  |  |

## Radial and Axial Tool Adjustable Holder - Portautensile Radiale e Assiale Regolabile



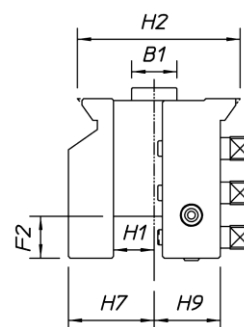
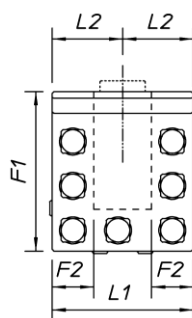
|                 | H1 | H2  | H7 | H9 | F1 | F2 | F3 | L1  | L2 | L3  | B1 |  |  |
|-----------------|----|-----|----|----|----|----|----|-----|----|-----|----|--|--|
| LEFT HAND TYPE  |    |     |    |    |    |    |    |     |    |     |    |  |  |
| 736.1800.011    | 20 | 56  | 33 | 15 | 50 | 18 | 4  | 94  | 34 | 60  | 16 |  |  |
| 736.3800.011    | 25 | 72  | 42 | 19 | 63 | 23 | 5  | 102 | 29 | 73  | 20 |  |  |
| 736.4800.011    | 25 | 90  | 46 | 30 | 80 | 23 | -  | 138 | 39 | 99  | 25 |  |  |
| 736.6800.011    | 32 | 115 | 58 | 36 | 94 | 30 | -  | 185 | 43 | 142 | 25 |  |  |
| RIGHT HAND TYPE |    |     |    |    |    |    |    |     |    |     |    |  |  |
| 736.1800.012    | 20 | 56  | 33 | 15 | 50 | 18 | 4  | 94  | 34 | 60  | 16 |  |  |
| 736.3800.012    | 25 | 72  | 42 | 19 | 63 | 23 | 5  | 102 | 29 | 73  | 20 |  |  |
| 736.4800.012    | 25 | 90  | 46 | 30 | 80 | 23 | -  | 138 | 39 | 99  | 25 |  |  |
| 736.6800.012    | 32 | 115 | 58 | 36 | 94 | 30 | -  | 185 | 43 | 142 | 25 |  |  |

## Triple Holder - Portautensile Triplo



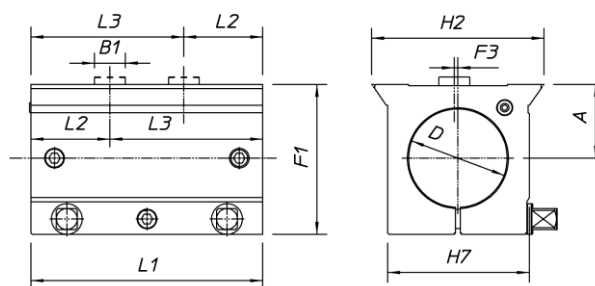
|                  | H1 | H2  | H7   | H9 | F1  | F2 | F3 | L1  | L2 | L3 | B1 |  |  |
|------------------|----|-----|------|----|-----|----|----|-----|----|----|----|--|--|
| 736.0000.031/2-R | 16 | 56  | 36   | 19 | 60  | 18 | -  | 84  | 34 | 50 | 16 |  |  |
| 736.3000.031/2-R | 25 | 72  | 42,5 | 26 | 81  | 22 | -  | 98  | 34 | 64 | 20 |  |  |
| 736.3200.031/2-R | 25 | 72  | 47,5 | 21 | 81  | 23 | 5  | 98  | 34 | 64 | 20 |  |  |
| 736.4000.031/2-R | 25 | 90  | 50   | 34 | 88  | 25 | -  | 118 | 39 | 69 | 25 |  |  |
| 736.6000.031/2-R | 32 | 115 | 62,5 | 47 | 94  | 32 | -  | 118 | 49 | 69 | 25 |  |  |
| 736.8000.031/2-R | 40 | 140 | 80   | 57 | 115 | 40 | -  | 148 | 59 | 85 | 25 |  |  |

## Triple Holder Narrow - Portautensile Triplo Stretto



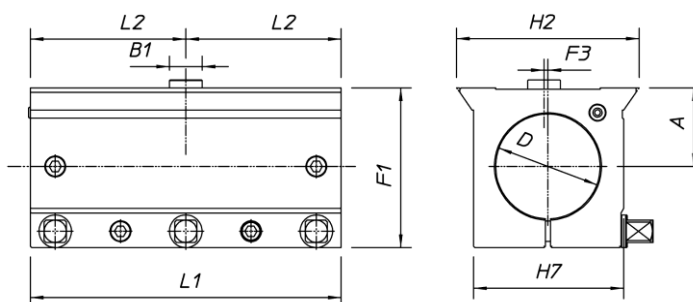
|                | H1 | H2  | H7   | H9 | F1 | F2 | F3 | L1 | L2 | L3 | B1 |  |  |
|----------------|----|-----|------|----|----|----|----|----|----|----|----|--|--|
| 736.0000.050-R | 16 | 56  | 36   | 19 | 60 | 18 |    | 68 | 34 |    | 16 |  |  |
| 736.4000.050-R | 25 | 90  | 50   | 34 | 88 | 25 |    | 78 | 39 |    | 25 |  |  |
| 736.6000.050-R | 32 | 115 | 62,5 | 47 | 94 | 32 |    | 98 | 49 |    | 25 |  |  |

## Tool Holder for Boring Bar (short) - Portautensile per Bareno (corto)



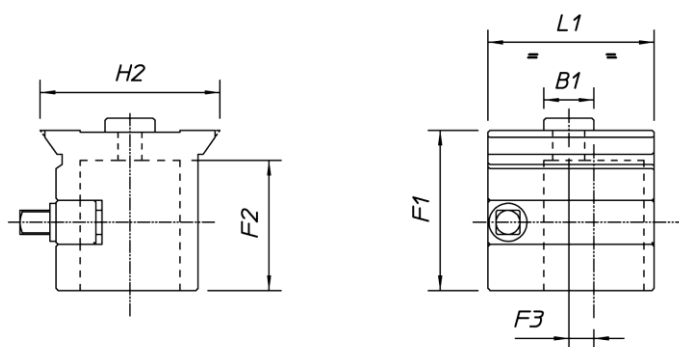
|                  | H2  | H7 | H9  | F1 | F2  | F3 | L1  | L2 | L3 | B1 | A  | D  |  |
|------------------|-----|----|-----|----|-----|----|-----|----|----|----|----|----|--|
| 736.0032.501/2-R | 56  | 39 | 52  | 62 | 70  | -  | 93  | 34 | 59 | 16 | 29 | 32 |  |
| 736.1132.501/2-R | 56  | 52 | -   | 59 | 59  | 4  | 93  | 34 | 59 | 16 | 29 | 32 |  |
| 736.2040.501/2-R | 72  | 59 | 68  | 69 | 78  | -  | 114 | 34 | 80 | 20 | 35 | 40 |  |
| 736.2050.501/2-R | 72  | 59 | 68  | 69 | 78  | -  | 114 | 34 | 80 | 20 | 40 | 50 |  |
| 736.3240.501/2-R | 72  | 68 | 70  | 69 | 83  | 5  | 114 | 34 | 80 | 20 | 35 | 40 |  |
| 736.3250.501/2-R | 72  | 68 | 70  | 69 | 83  | 5  | 114 | 34 | 80 | 20 | 40 | 50 |  |
| 736.4050.501/2-R | 90  | 71 | 85  | 88 | 98  | -  | 138 | 39 | 99 | 25 | 40 | 50 |  |
| 736.4060.501/2-R | 90  | 71 | 85  | 88 | 98  | -  | 138 | 39 | 99 | 25 | 45 | 60 |  |
| 736.6060.501/2-R | 115 | 95 | 110 | 94 | 116 | -  | 148 | 49 | 99 | 25 | 45 | 60 |  |
| 736.6080.501/2-R | 115 | 95 | 110 | 94 | 116 | -  | 148 | 49 | 99 | 25 | 55 | 80 |  |

## Tool Holder for Boring Bar (long) - Portautensile per Bareno (lungo)



|                | H2  | H7  | H9  | F1  | F2  | F3 | L1  | L2  | B1 | A  | D   |  |  |
|----------------|-----|-----|-----|-----|-----|----|-----|-----|----|----|-----|--|--|
| 736.0040.510-R | 56  | 39  | 52  | 59  | 69  | -  | 118 | 59  | 16 | 34 | 40  |  |  |
| 736.1132.510-R | 56  | 56  | 52  | 59  | 69  | 4  | 118 | 59  | 16 | 29 | 32  |  |  |
| 736.1140.510-R | 56  | 56  | 52  | 59  | 69  | 4  | 118 | 59  | 16 | 34 | 40  |  |  |
| 736.2040.510-R | 72  | 59  | 68  | 69  | 78  | -  | 150 | 75  | 20 | 35 | 40  |  |  |
| 736.2050.510-R | 72  | 59  | 68  | 69  | 78  | -  | 150 | 75  | 20 | 40 | 50  |  |  |
| 736.3240.510-R | 72  | 72  | 68  | 79  | 69  | 5  | 150 | 75  | 20 | 35 | 40  |  |  |
| 736.3250.510-R | 72  | 72  | 68  | 79  | 69  | 5  | 150 | 75  | 20 | 40 | 50  |  |  |
| 736.4050.510-R | 90  | 71  | 85  | 88  | 97  | -  | 198 | 99  | 25 | 40 | 50  |  |  |
| 736.4060.510-R | 90  | 71  | 85  | 88  | 97  | -  | 198 | 99  | 25 | 45 | 60  |  |  |
| 736.6060.510-R | 115 | 95  | 110 | 94  | 116 | -  | 198 | 99  | 25 | 45 | 60  |  |  |
| 736.6080.510-R | 115 | 95  | 110 | 94  | 116 | -  | 198 | 99  | 25 | 55 | 80  |  |  |
| 736.8080.510-R | 140 | 115 | 135 | 122 | 145 | -  | 238 | 119 | 25 | 60 | 80  |  |  |
| 736.8010.510-R | 140 | 115 | 135 | 122 | 145 | -  | 238 | 119 | 25 | 70 | 100 |  |  |

## Frontal Tool Holder for Boring Bar- Portautensile per Bareno Frontale



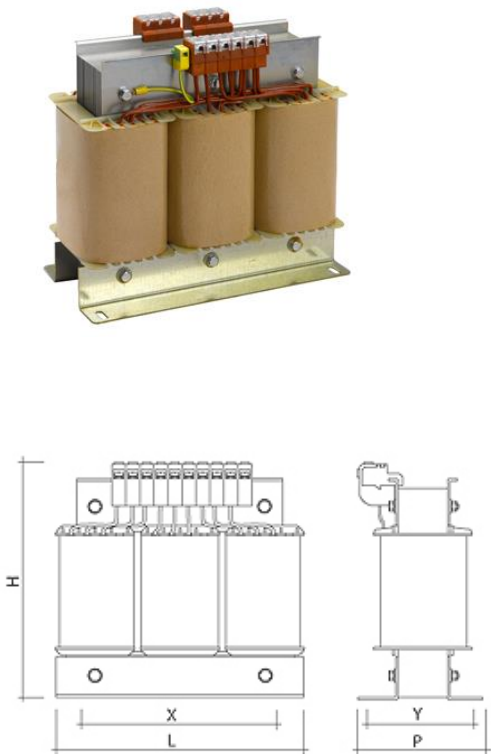
|                | H1  | H7 | F1 | F2 | F3   | L1 | B1 | D  |  |  |  |  |  |
|----------------|-----|----|----|----|------|----|----|----|--|--|--|--|--|
| 736.0032.600-R | 56  | 39 | 54 | 40 | 10   | 68 | 16 | 32 |  |  |  |  |  |
| 736.2040.600-R | 72  | 53 | 65 | 50 | 10   | 78 | 20 | 40 |  |  |  |  |  |
| 736.4050.600-R | 90  | 71 | 80 | 65 | 12,5 | 83 | 25 | 50 |  |  |  |  |  |
| 736.6060.600-R | 115 | 95 | 94 | 80 | 12,5 | 98 | 25 | 60 |  |  |  |  |  |

## Tool Holder with Capto solution - Portautensile con soluzioni Capto



*On request*

Power transformer -Trasformatore



|                                                        |      |      |         |
|--------------------------------------------------------|------|------|---------|
| INPUT VOLTAGE<br><i>Voltaggio in entrata</i>           |      | Volt | 400     |
| OUTPUT VOLTAGE<br><i>Voltaggio in uscita</i>           |      | Volt | 220     |
| FREQUENCY<br><i>Frequenza</i>                          |      | Hz   | 50/60   |
| POWER<br><i>Potenza</i>                                |      | KVA  | 0.1÷250 |
| IP Protection<br><i>Gradi protezione IP</i>            |      | IP   | 00      |
| Electrical protection<br><i>Protezione elettrica</i>   |      |      | I       |
| Temp. range<br><i>Temperatura ambiente</i>             |      | C°   | 0 ÷ 40  |
| LENGTH<br><i>Lunghezza</i>                             | L    | mm   | 240     |
| WIDHT<br><i>Larghezza</i>                              | P    |      | 130     |
| HEIGHT<br><i>Altezza</i>                               | H    |      | 235     |
| FIXING DIMENSION<br><i>Misure staffaggio</i>           | X    |      | 200     |
|                                                        | Y    | 100  |         |
| LOOSING<br><i>Perdita</i>                              | FE W |      | 29      |
|                                                        | CU   |      | 57      |
| WEIGHT<br><i>Peso</i>                                  | Kg   | 25   | WEIGHT  |
| VCC                                                    | %    |      | 5,3     |
| Norm CEI EN 61558 2-1 / 2-2 / 2-4 / 2-6<br>Norm UL-CSA |      |      |         |





## Worldwide sales and service organization

### Organizzazione mondiale di vendite e servizi



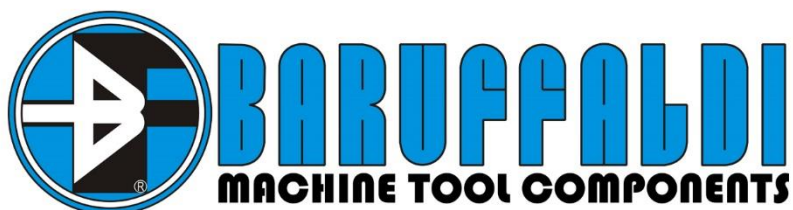
Baruffaldi has developed a sales and service organisation all over the world.

Furthermore, thanks to a net of agents and distributors, it is ensured a direct contact in many nations.

La Baruffaldi è strutturata per offrire un servizio di vendita e assistenza in tutto il mondo.

Inoltre grazie ad una rete di agenti e distributori garantisce un contatto diretto in molte nazioni.

[illegible]



Via Cassino D'Alberi 16, 20067 Tribiano (Milan) ITALY

Tel +39 02906090 Fax +39 02906090 915

Email [Sales.mtc@baruffaldi.it](mailto:Sales.mtc@baruffaldi.it)

P.Iva / Vat 00757870159



[www.Baruffaldi.it](http://www.Baruffaldi.it)



[facebook.com/BaruffaldiSpa](https://facebook.com/BaruffaldiSpa)



[twitter.com/BaruffaldiSpa](https://twitter.com/BaruffaldiSpa)



[youtube.com/BaruffaldiSpa](https://youtube.com/BaruffaldiSpa)