

**RIDUTTORI PER SERVOMOTORI**  
**GEARBOXES FOR SERVOMOTORS /**  
**GETRIEBE FÜR SERVOMOTOREN /**





## L'esperienza al servizio dell'innovazione

IT

Dal 1955 il Gruppo Varvel progetta e realizza sistemi di trasmissione di potenza impiegati in numerosi settori dell'industria. "Know-how to do it": Varvel ha le competenze per soddisfare al meglio le richieste dei clienti. Grazie alla grande esperienza maturata in oltre sessant'anni, Varvel offre alla clientela un'ampia gamma di soluzioni standard e prodotti personalizzati per esigenze specifiche. L'intera gamma di prodotti Varvel è progettata e realizzata in Italia, ma il Gruppo è presente in tutto il mondo con due filiali (una in USA e l'altra in India) e una rete globale con oltre 100 partner commerciali.

## Experience at the service of innovation

EN

The Varvel Group has been designing and producing power transmission systems for numerous areas of industry since 1955. "Know-how to do it": Varvel has the know-how needed to satisfy customers' requests in the best way possible. Thanks to over sixty years of accumulated experience, Varvel can offer customers a vast range of standard solutions and customise products for specific needs. The entire product range is designed and made in Italy and sold worldwide through two subsidiaries (in the USA and India) and a global network of over 100 commercial partners.

## Erfahrung im Dienste der Innovation

DE

Die Varvel-Gruppe entwickelt und produziert seit 1955 Kraftübertragungssysteme für viele Industriezweige. "Know-how to do it": Varvel verfügt über das Know-how, um die Anforderungen der Kunden bestmöglich zu erfüllen. Dank der in über sechzig Jahren Firmenaktivität gesammelten Erfahrung kann Varvel seinen Kunden eine breite Palette von Standardlösungen und maßgeschneiderten Produkten für alle spezifischen Anforderungen bieten. Die gesamte Varvel-Produktpalette wird in Italien entwickelt und hergestellt; darüber hinaus ist die Gruppe aber auch weltweit mit zwei Tochtergesellschaften (die eine in den USA und die andere in Indien) und einem globalen Netzwerk mit über 100 Geschäftspartnern präsent.

UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
BS OHSAS 18001:2007



EC DIRECTIVE 2014/34/EC (ATEX)



## RIDUTTORI PER SERVOMOTORI

Vite senza fine.  
Ingranaggi,  
Paralleli,  
Ortogonalni,  
Epicycloidalni,



## GEARBOXES FOR SERVOMOTORS

Worm,  
Helical,  
Parallel shaft,  
Bevel helical,  
Planetary.

## GETRIEBE FÜR SERVOMOTOREN

Schnecken-  
Stirnrad-  
Flach-  
Kegelrad-  
Planetengetriebe

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## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### Descrizione prodotti - Product description - Produkte

| Tipo<br>Type<br>Typ                                                                            | Descrizione<br>Description<br>Beschreibung                          | N. Taglie<br>Size No.<br>Baugröße Nr. | Rapporti<br>Ratios<br>Untersetzung | Coppia<br>Torque<br>Drehmoment |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|------------------------------------|--------------------------------|
|  <b>RS</b>    | Riduttori a vite senza fine<br>Worm gearboxes<br>Schneckengetriebe  | 9                                     | 5:1 ... 10000:1                    | 8 ... 3020 Nm                  |
|  <b>RT</b>    | Riduttori a vite senza fine<br>Worm gearboxes<br>Schneckengetriebe  | 7                                     | 5:1 ... 10000:1                    | 8 ... 1350 Nm                  |
|  <b>RD</b>    | Riduttori a ingranaggi<br>Helical gearboxes<br>Stirnradgetriebe     | 7                                     | 2.5:1 ... 630:1                    | 50 ... 2300 Nm                 |
|  <b>RN</b>  | Riduttori paralleli<br>Parallel shaft gearboxes<br>Flachgetriebe    | 6                                     | 6.3:1 ... 630:1                    | 180 ... 3300 Nm                |
|  <b>RO</b>  | Riduttori ortogonali<br>Bevel helical gearboxes<br>Kegelradgetriebe | 6                                     | 6.3:1 ... 315:1                    | 180 ... 3300 Nm                |
|  <b>RO2</b> | Riduttori ortogonali<br>Bevel helical gearboxes<br>Kegelradgetriebe | 4                                     | 5:1 ... 51.5:1                     | 120 ... 500 Nm                 |
|  <b>RV</b>  | Riduttori ortogonali<br>Bevel helical gearboxes<br>Kegelradgetriebe | 6                                     | 6.3:1 ... 315:1                    | 180 ... 3300 Nm                |
|  <b>RG</b>  | Riduttori epicicloidali<br>Planetary gearboxes<br>Planetengetriebe  | 4                                     | 3:1 ... 100:1                      | 6 ... 110 Nm                   |

## Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

### Eingangsflansche - Input Flanges - Flange Entrata

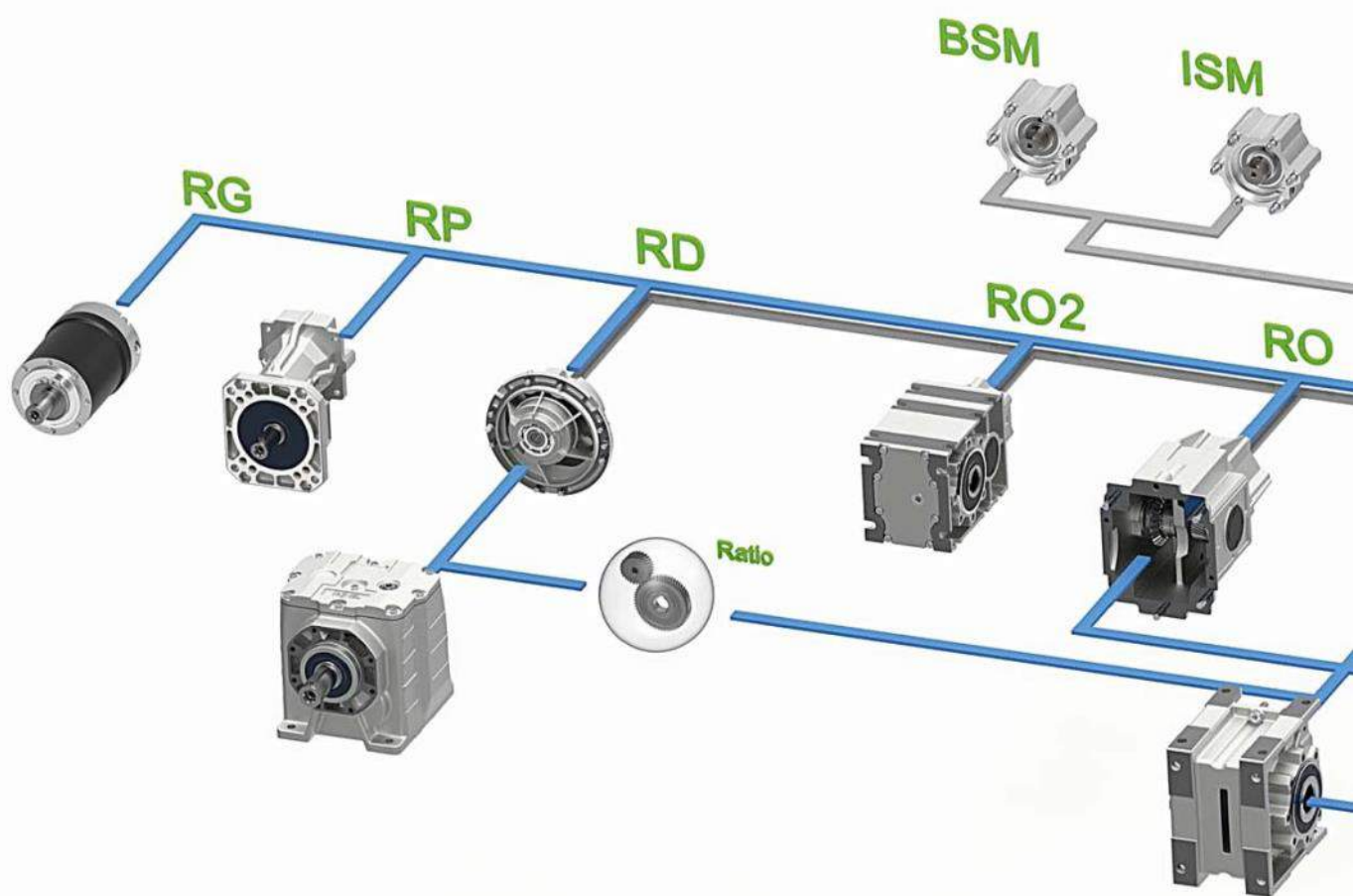


| Tipo flangia quadra<br>Square flange type<br>Vierkantflanschttyp | RD                 | RG             | RN                 | RO           | RO2  | RS             | RT    | RV           |
|------------------------------------------------------------------|--------------------|----------------|--------------------|--------------|------|----------------|-------|--------------|
| FM28                                                             | ---                | RG051<br>RG052 | ---                | ---          | ---  | RS28           | RT28  | ---          |
| FM40                                                             | RD02<br>RD03       | RG071<br>RG072 | ---                | ---          | ---  | RS40           | RT40  | ---          |
| FM50                                                             | RD12<br>RD13       | ---            | RN12<br>RN13       | RO13         | RO02 | RS50           | RT50  | RV13         |
| FM60                                                             | ---                | RG091<br>RG092 | ---                | ---          | ---  | RS60           | RT60  | ---          |
| FM70                                                             | RD22-23<br>RD32-33 | ---            | RN22-23<br>RN32-33 | RO23         | RO12 | RS70           | RT70  | RV23         |
| FM85                                                             | RD42<br>RD43       | ---            | RN42<br>RN43       | RO33         | RO13 | RS85           | RT85  | RV33         |
| FM110                                                            | ---                | RG121<br>RG122 | ---                | RO43         | RO32 | RS110          | RT110 | RV43         |
| FM130-150                                                        | ---                | ---            | RN52-53<br>RN62-63 | RO53<br>RO63 | ---  | RS130<br>RS150 | ---   | RV53<br>RV63 |



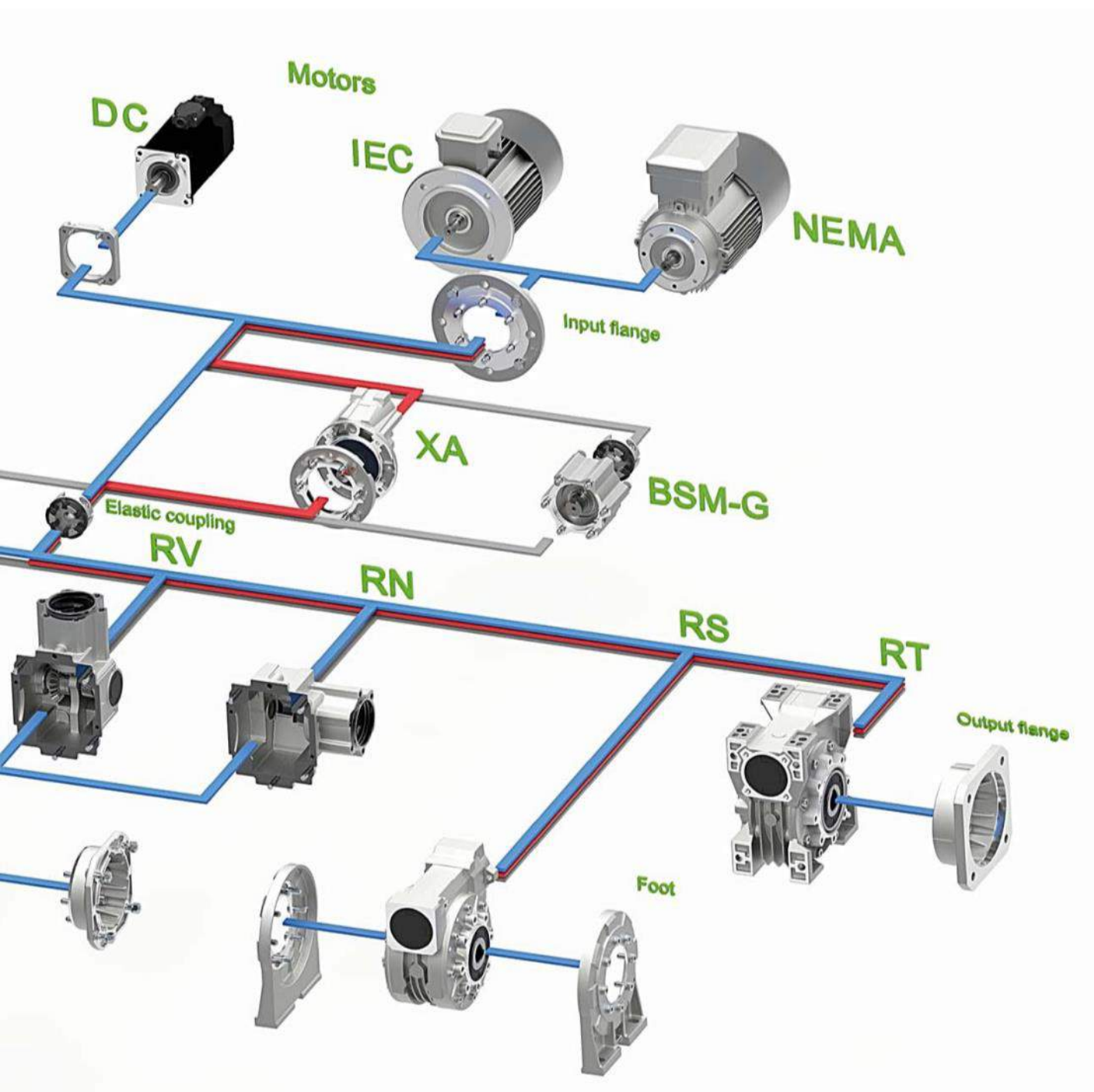
## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

Sistema Modulare - Modular System - Modularesystem



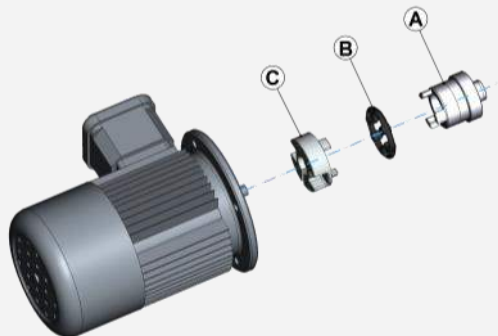
# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

Modularsystem - Modular System - Sistema Modulare



## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### Giunto - Coupling - Kupplung



#### Semi-giunto riduttore

- Materiale: acciaio
- Integrale con albero entrata
- Supportato con due cuscinetti
- Dimensioni lato entrata invariate

#### Anello elastico

- Denti: collegati esternamente
- Materiale: Elastomero Termoplastico IXEF® - Polyarylamide
- Durezza [www.reduktor-varvel.ru](http://www.reduktor-varvel.ru) 90 Shore D
- Temperatura  
-30/+135°C (-22/+275°F)

#### Semi-giunto motore

- Materiale:  
Alluminio pressofuso (G3, G5, G6)  
Acciaio (GS3, GS5, GS6, GS8)
- Bilanciatura dinamica
- Calettamento:  
Morsetto (G3, G5, G6)  
Chiavetta (GS3, GS5, GS6, GS8)
- Fori disponibili secondo:  
IEC 72 / DIN42948  
NEMA C e TC

#### Vantaggi:

- Un solo riduttore per rapporto di riduzione
- Maggiore flessibilità
- Aumentata rotazione dello stock
- Eliminazione sfregamento fra chiavetta e cava (tribocorrosione)
- Collegamento riduttore / motore con gioco zero
- Disallineamento angolare ammesso max 1°
- Elevata rigidità torsionale
- Elevato smorzamento delle vibrazioni

#### Flange entrata:

- Materiale:  
Alluminio fino IEC112 e NEMA TC180  
Ghisa da IEC 132 e NEMA TC200

#### Reducer-side coupling hub

- Material: steel
- One piece machined on input shaft
- Two bearing setting
- Unchanged casing dimensions

#### Spider

- External tooth connection
- Material: Thermoplastic Elastomer: IXEF® - Polyarylamide
- Hardness  
90 Shore D
- Temperature  
-30/+135°C (-22/+275°F)

#### Motor-side coupling hub

- Material:  
Aluminium pressure die cast (G3, G5, G6)  
Steel (GS3, GS5, GS6, GS8)
- Dynamic balancing
- Fitting:  
Clamp (G3, G5, G6)  
Key (GS3, GS5, GS6, GS8)
- Bores, available according to:  
IEC 72 / DIN42948  
NEMA C and TC

#### Advantages:

- One gearbox only for each reduction ratio
- Greater flexibility
- Increased stock rotation
- Elimination of fretting corrosion between key and keyway
- Gearbox / motor connection with zero backlash
- Allowed angular misalignment 1° max.
- High torsional rigidity
- High vibration damping

#### Input flanges:

- Material:  
Aluminium up to IEC112 & NEMA TC180  
Cast iron from IEC 132 & NEMA TC200

#### Getriebekupplungshäfte

- Material: Stahl
- integrierte Eingangswelle
- Zwei-Lager-Anordnung
- unveränderte Eingang Abmessungen

#### Kupplungsscheibe

- Äußerliche Zahnverbindung
- Material Thermoplastisch Elastomer: IXEF® - Polyarylamide
- Härte  
90 Shore D
- Temperatur  
-30/+135°C (-22/+275°F)

#### Motorkupplungshäfte

- Material:  
Aluminium Druckguss (G3, G5, G6)  
Stahl (GS3, GS5, GS6, GS8)
- dynamische Auswuchtung
- Verkeilung:  
Klammer (G3, G5, G6)  
Keil (GS3, GS5, GS6, GS8)
- Bohrungen, nach:  
IEC 72 / DIN42948  
NEMA C u. TC

#### Vorzüge:

- nur eine Getriebekomponente je Übersetzung
- gesteigerte Flexibilität
- höher Lagerumschlag
- Vermeidung von Passungsost zwischen Keil u. Keil Einschnitt
- Getriebe / Motor Spielfrei Verkeilung
- erlaubt Winkelausgleich bis 1°
- hohe Verdrehsteifigkeit
- hohe Dämpfung von Schwingungen

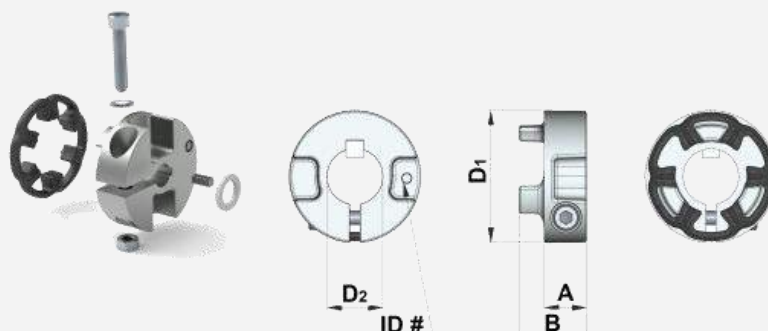
#### Eingangsflansche:

- Material:  
Aluminium bis IEC112 u. NEMA C180  
Grauguss ab IEC 132 u. NEMA C200



# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

## Kuplungsauswahl - Coupling selection - Selezione giunto



| Giunto<br>Coupling<br>Kupplung | IEC<br>NEMA | Kit Code | Mt<br>[Nm] | Mt1<br>[Nm] | Mt2<br>[Nm] | A<br>[mm] | B<br>[mm] | D1<br>[mm] | D2<br>[mm]<br>[inch] | ID#   |
|--------------------------------|-------------|----------|------------|-------------|-------------|-----------|-----------|------------|----------------------|-------|
| G3                             | IEC         | KG3.009  | 4.5 - 6    | 15          | 8 - 10      | 11        | 19        | 30         | 9                    | 309   |
|                                |             | KG3.011  | 4.5 - 6    | 15          | 8 - 10      |           |           | 30         | 11                   | 311   |
|                                |             | KG3.014  | 7 - 8.5    | 28          | 18 - 22     |           |           | 36         | 14                   | 314   |
|                                | NEMA        | KG3.N42  | 4.5 - 6    | 16          | 8 - 10      |           |           | 30         | 3/8"                 | 3N42  |
|                                |             | KG3.N48  | 4.5 - 6    | 18          | 10 - 12     |           |           | 36         | 1/2"                 | 3N48  |
|                                |             | KG3.N56  | 7 - 8.5    | 30          | 20 - 24     |           |           | 36         | 5/8"                 | 3N56  |
| G5                             | IEC         | KG5.011  | 8.9 - 10   | 15          | 8 - 10      | 14.5      | 23        | 45         | 11                   | 511   |
|                                |             | KG5.014  |            | 30          | 12 - 17     |           |           | 45         | 14                   | 514   |
|                                |             | KG5.019  |            | 40          | 20 - 25     |           |           | 45         | 19                   | 519   |
|                                |             | KG5.024  |            | 70          | 30 - 40     |           |           | 52         | 24                   | 524   |
|                                | NEMA        | KG5.N56  |            | 45          | 30 - 35     |           |           | 45         | 5/8"                 | 5N56  |
|                                |             | KG5.N140 |            | 60          | 40 - 45     |           |           | 52         | 7/8"                 | 5N140 |
| G6                             | IEC         | KG6.014  | 15.3 - 18  | 60          | 30 - 40     | 19.5      | 31.5      | 58         | 14                   | 614   |
|                                |             | KG6.019  |            | 90          | 50 - 65     |           |           |            | 19                   | 619   |
|                                |             | KG6.024  |            | 130         | 85 - 100    |           |           |            | 24                   | 624   |
|                                |             | KG6.028  |            | 180         | 100 - 120   |           |           |            | 28                   | 628   |
|                                | NEMA        | KG6.N56  |            | 50          | ---         |           |           |            | 5/8"                 | 6N56  |
|                                |             | KG6.N140 |            | 85          |             |           |           |            | 7/8"                 | 6N140 |
|                                |             | KG6.N180 |            | 200         |             |           |           |            | 1-1/8"               | 6N180 |
|                                |             |          |            |             |             |           |           |            |                      |       |
| *GS8                           | IEC         | KGS8.19  | 15         | 150         | ---         | 35        | 51        | 79         | 19                   | 819   |
|                                |             | KGS8.24  |            | 250         | ---         |           |           |            | 24                   | 924   |
|                                |             | KGS8.28  |            | 350         | ---         |           |           |            | 28                   | 928   |
|                                |             | KGS8.38  |            | 500         | ---         |           |           |            | 38                   | 838   |
|                                |             | KGS8.42  |            | 500         | ---         |           |           |            | 42                   | 842   |
|                                |             | KGS8.48  |            | 500         | ---         |           |           |            | 48                   | 848   |
|                                | NEMA        | KGS8.N56 |            | 140         | ---         |           |           |            | 5/8"                 | 8N56  |
|                                |             | KGS8.140 |            | 200         | ---         |           |           |            | 7/8"                 | 8N140 |
|                                |             | KGS8.180 |            | 300         | ---         |           |           |            | 1-1/8"               | 8N180 |
|                                |             | KGS8.210 |            | 500         | ---         |           |           |            | 1-3/8"               | 8N210 |

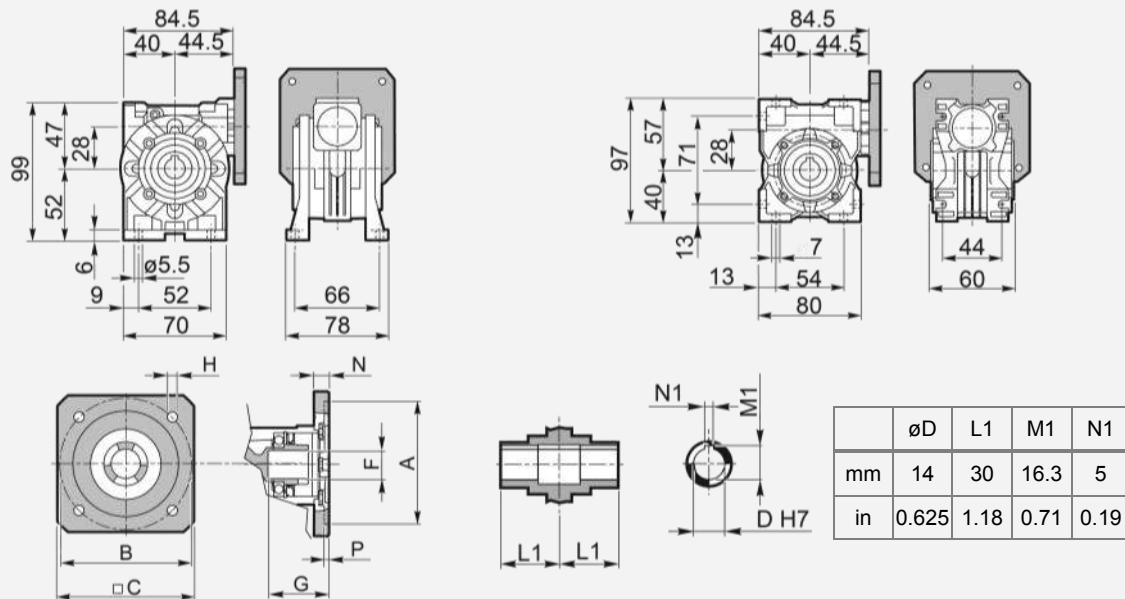
Mt - Coppia serraggio vite  
 Mt1 - Coppia trasmissibile con chiavetta  
 Mt2 - Coppia trasmissibile senza chiavetta  
 \* - Giunto GS8: acciaio e chiavetta/cava

Mt - Screw locking torque  
 Mt1 - Transmissible torque with key  
 Mt2 - Transmissible torque without key  
 \* - Coupling GS8: steel and key fit

Mt - Schraubenklemmendrehmoment  
 Mt1 - übertragbar Drehmoment mit Keil  
 Mt2 - übertragbar Drehmoment ohne Keil  
 \* - Kupplung GS8: Stahl u. Keilverkeilung

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RS28 - RT28



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |       |    |      |      |        |      |     |
|------------------------------------------------------|----------------------------------------------|-------|----|------|------|--------|------|-----|
|                                                      | A (#)                                        | B     | C  | F    | G    | H      | N    | P   |
| APP050004                                            | 22                                           | 43,84 | 56 | 15.5 | 34,5 | Ø5 - 4 | 7    | 4,5 |
| A180043A                                             | 30                                           | 45    | 50 | 15.5 | 36,5 | M3 - 4 | 9    | 3   |
| APP050009                                            | 36                                           | 70.71 | 60 | 15.5 | 36,5 | M4 - 4 | 9    | 4,5 |
| A180003A                                             | 36                                           | 70.71 | 60 | 15.5 | 40,5 | M4 - 4 | 13   | 4,5 |
| APP050006                                            | 38.1                                         | 66.66 | 56 | 15.5 | 36,5 | M4 - 4 | 9    | 4,5 |
| A180001A                                             | 38.1                                         | 66.66 | 56 | 15.5 | 42   | M4 - 4 | 14,5 | 4,5 |
| APP2101                                              | 38.1                                         | 66.66 | 57 | 15.5 | 40,5 | M4 - 4 | 13   | 2,5 |
| APP050003                                            | 40                                           | 63    | 56 | 15.5 | 36,5 | M5 - 4 | 9    | 4,5 |
| A180002A                                             | 40                                           | 63    | 56 | 15.5 | 40,5 | M5 - 4 | 13   | 4,5 |
| A180083A                                             | 40                                           | 63    | 56 | 15.5 | 44,5 | M5 - 4 | 17   | 4,5 |
| APP050013                                            | 50                                           | 70    | 60 | 15.5 | 36,5 | M5 - 4 | 9    | 4,5 |
| APP050022                                            | 50                                           | 70    | 60 | 15.5 | 48,5 | M4 - 4 | 21   | 4,5 |
| APP050027                                            | 50                                           | 70    | 60 | 15.5 | 48,5 | M5 - 4 | 21   | 4,5 |
| A180005A                                             | 50                                           | 70    | 60 | 15.5 | 40,5 | M5 - 4 | 13   | 4,5 |
| APP050035                                            | 60                                           | 75    | 65 | 15.5 | 39,5 | M5 - 4 | 12   | 4,5 |
| APP1829                                              | 73                                           | 98.43 | 83 | 15.5 | 49,8 | M5 - 5 | 22,3 | 10  |

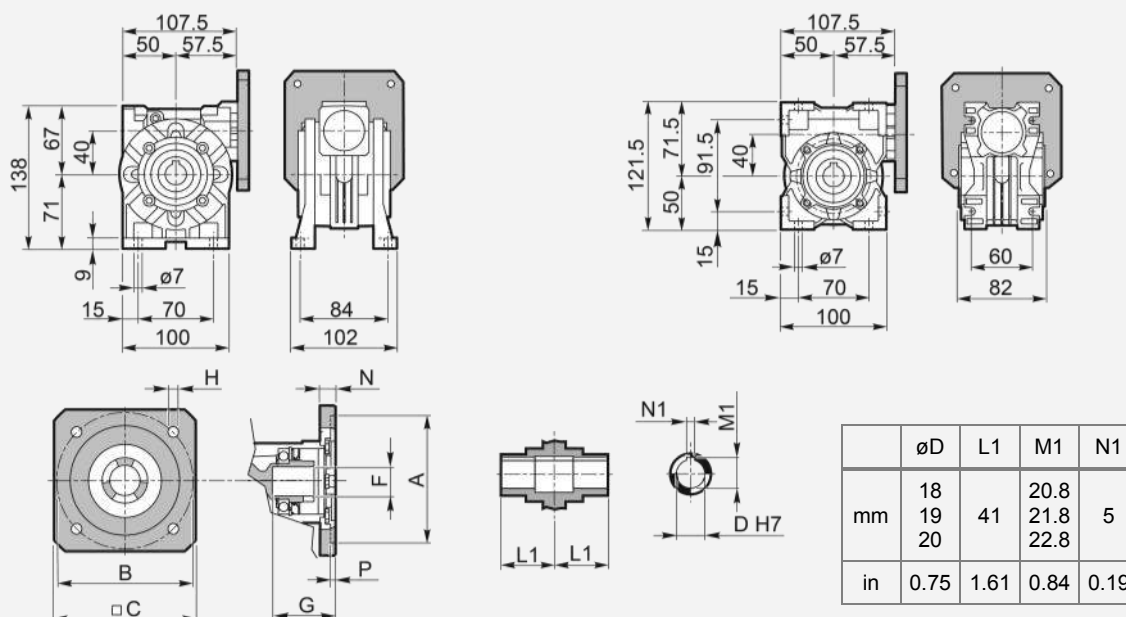
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RS40 - RT40



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |       |    |      |      |        |      |      |
|------------------------------------------------------|----------------------------------------------|-------|----|------|------|--------|------|------|
|                                                      | A (#)                                        | B     | C  | F    | G    | H      | N    | P    |
| A18.0085A                                            | 38,1                                         | 66,66 | 65 | 15,5 | 44,5 | M4 - 4 | 15   | 10   |
| APP2258                                              | 40                                           | 63    | 65 | 15,5 | 44,5 | M5 - 4 | 15   | 10,5 |
| A180076A                                             | 40                                           | 73,5  | 65 | 15,5 | 43   | M4 - 4 | 13,5 | 4,5  |
| A180008A                                             | 50                                           | 95    | 80 | 15,5 | 43   | M6 - 4 | 13,5 | 4    |
| A180055A                                             | 50                                           | 70    | 60 | 15,5 | 43   | M5 - 4 | 13,5 | 3,5  |
| APP070006                                            | 60                                           | 75    | 72 | 15,5 | 43   | M5 - 4 | 13,5 | 3    |
| APP070003                                            | 70                                           | 90    | 80 | 15,5 | 43   | M6 - 4 | 13,5 | 4,5  |
| A180066A                                             | 70                                           | 90    | 80 | 15,5 | 49   | M6 - 4 | 19,5 | 4,5  |
| APP070011                                            | 73                                           | 98,29 | 85 | 15,5 | 43   | M5 - 4 | 13,5 | 4,5  |
| APP1897                                              | 73                                           | 98,43 | 83 | 15,5 | 49,3 | M5 - 5 | 19,8 | 10   |
| A180054A                                             | 73,025                                       | 98,43 | 87 | 15,5 | 44,5 | M6 - 4 | 15   | 4,5  |
| APP070002                                            | 80                                           | 100   | 85 | 15,5 | 43   | M6 - 4 | 13,5 | 4,5  |
| APP070008                                            | 80                                           | 100   | 85 | 15,5 | 43   | M8 - 4 | 13,5 | 4,5  |
| A180051A                                             | 80                                           | 100   | 90 | 15,5 | 43   | M6 - 4 | 13,5 | 5,5  |
| APP070007                                            | 95                                           | 115   | 98 | 15,5 | 43   | M8 - 4 | 13,5 | 4    |
| A180007A                                             | 95                                           | 115   | 98 | 15,5 | 54,5 | M8 - 4 | 25   | 4    |

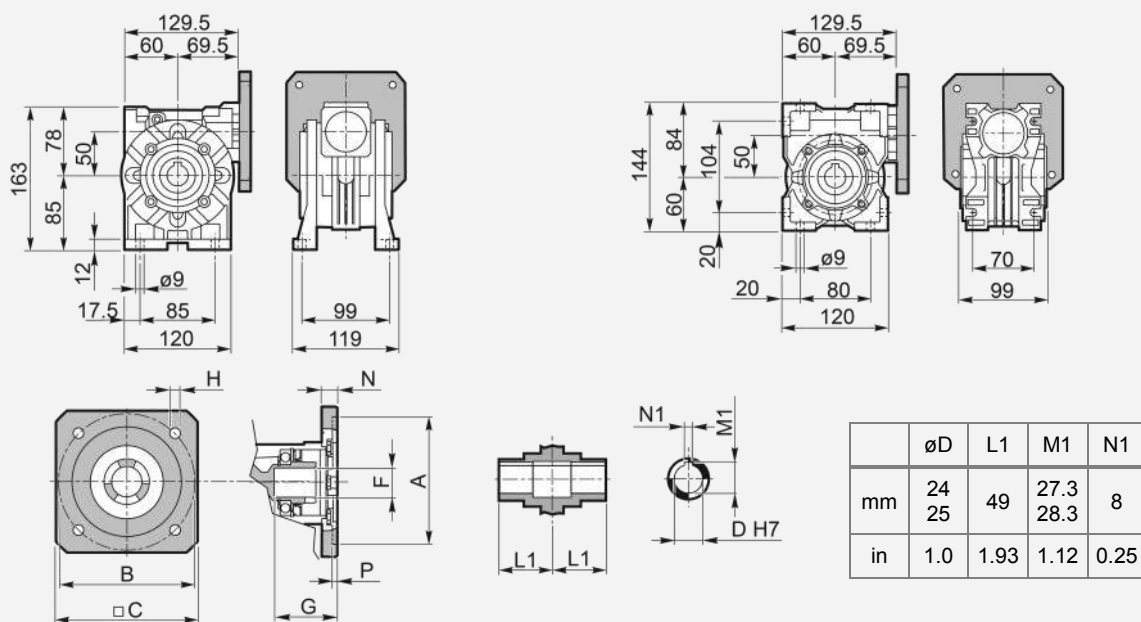
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

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unverbindliche Abmessungen u. Gewichte

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RS50 - RT50



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |    |      |        |      |     |
|------------------------------------------------------|----------------------------------------------|-----|-----|----|------|--------|------|-----|
|                                                      | A (#)                                        | B   | C   | F  | G    | H      | N    | P   |
| A180056A                                             | 70                                           | 90  | 80  | 24 | 52,5 | M6 - 4 | 13,5 | 4,5 |
| APP2144                                              | 70                                           | 90  | 80  | 24 | 55   | M6 - 4 | 16   | 9   |
| APP2259                                              | 95                                           | 115 | 100 | 24 | 52   | Ø9 - 4 | 13   | 4   |
| APP2134                                              | 110                                          | 145 | 120 | 24 | 55   | M8 - 4 | 16   | 5   |

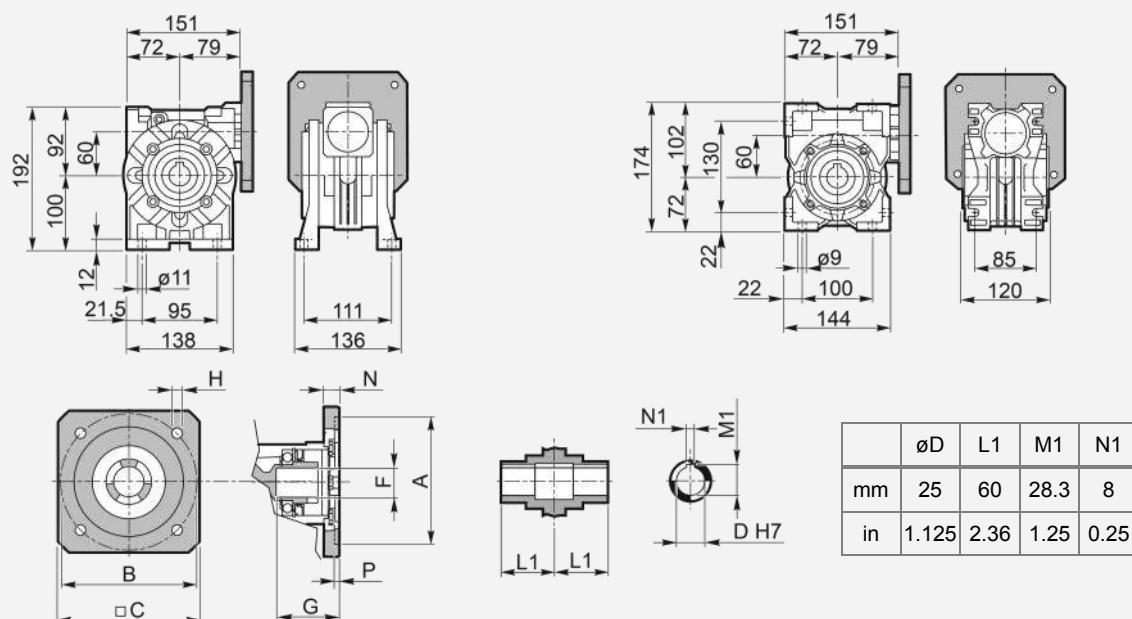
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

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unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RS60 - RT60



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |       |     |    |      |          |      |     |
|------------------------------------------------------|----------------------------------------------|-------|-----|----|------|----------|------|-----|
|                                                      | A (#)                                        | B     | C   | F  | G    | H        | N    | P   |
| APP090011                                            | 70                                           | 90    | 80  | 24 | 53,5 | M6 - 4   | 14,5 | 4.5 |
| A180064A                                             | 73                                           | 98.43 | 86  | 24 | 53,5 | M6 - 4   | 14,5 | 4.5 |
| APP090009                                            | 80                                           | 100   | 85  | 24 | 53,5 | M6 - 4   | 14,5 | 4.5 |
| A180037A                                             | 80                                           | 100   | 90  | 24 | 57   | M6 - 4   | 18   | 6   |
| APP090013                                            | 95                                           | 115   | 100 | 24 | 53,5 | M8 - 4   | 14,5 | 4.5 |
| APP090014                                            | 95                                           | 115   | 100 | 24 | 58   | M6 - 4   | 19   | 4.5 |
| APP090041                                            | 95                                           | 135   | 120 | 24 | 53,5 | M8 - 4   | 14,5 | 6.5 |
| APP090012                                            | 110                                          | 145   | 120 | 24 | 53,5 | M8 - 4   | 14,5 | 6.5 |
| APP090040                                            | 110                                          | 145   | 120 | 24 | 58,5 | M8 - 4   | 19,5 | 6.5 |
| A180036A                                             | 110                                          | 130   | 125 | 24 | 64   | Ø8,5 - 4 | 25   | 8.5 |
| A180041A                                             | 110                                          | 145   | 130 | 24 | 58   | M8 - 4   | 19   | 11  |
| A180045A                                             | 110                                          | 145   | 120 | 24 | 67   | M8 - 4   | 28   | 6.5 |
| A180059A                                             | 110                                          | 145   | 120 | 24 | 53,5 | M8 - 4   | 14,5 | 3.5 |
| A180061A                                             | 110                                          | 145   | 130 | 24 | 53,5 | M8 - 4   | 14,5 | 3.5 |

(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

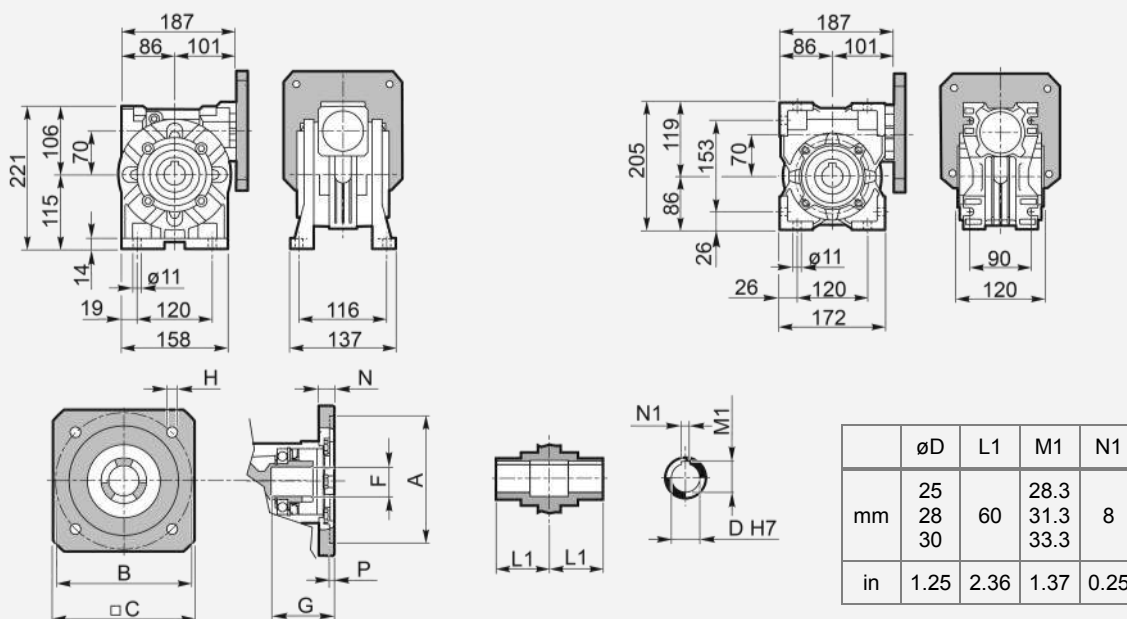
(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte



## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RS70 - RT70



| Codice flangia<br>Flange part No.<br>Flanschckde Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |      |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|------|
|                                                      | A (#)                                        | B   | C   | F    | G    | H      | N    | P    |
| A180077A                                             | 70                                           | 90  | 90  | 28,5 | 64,5 | M6 - 4 | 14,5 | 4,5  |
| A180086A                                             | 80                                           | 100 | 105 | 28,5 | 65,5 | M6 - 4 | 15,5 | 10,5 |
| A180088A                                             | 80                                           | 100 | 82  | 28,5 | 85   | M6 - 4 | 35   | 5    |
| APP2132                                              | 95                                           | 115 | 100 | 28,5 | 72   | M6 - 4 | 22   | 9    |
| APP2133                                              | 110                                          | 145 | 130 | 28,5 | 75   | M8 - 4 | 25   | 7    |

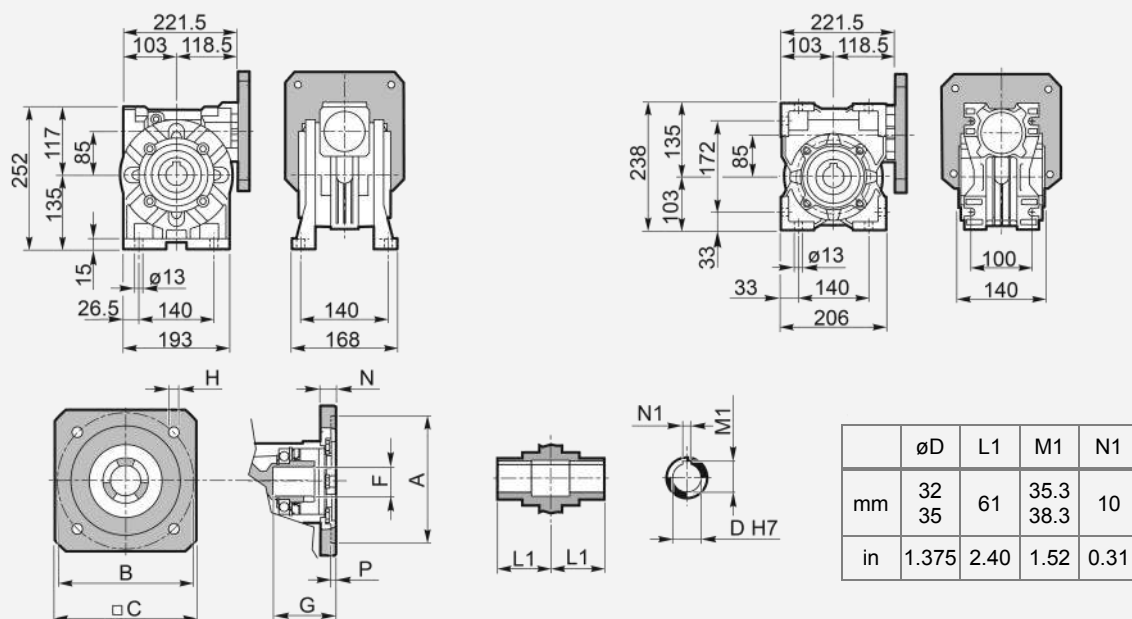
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

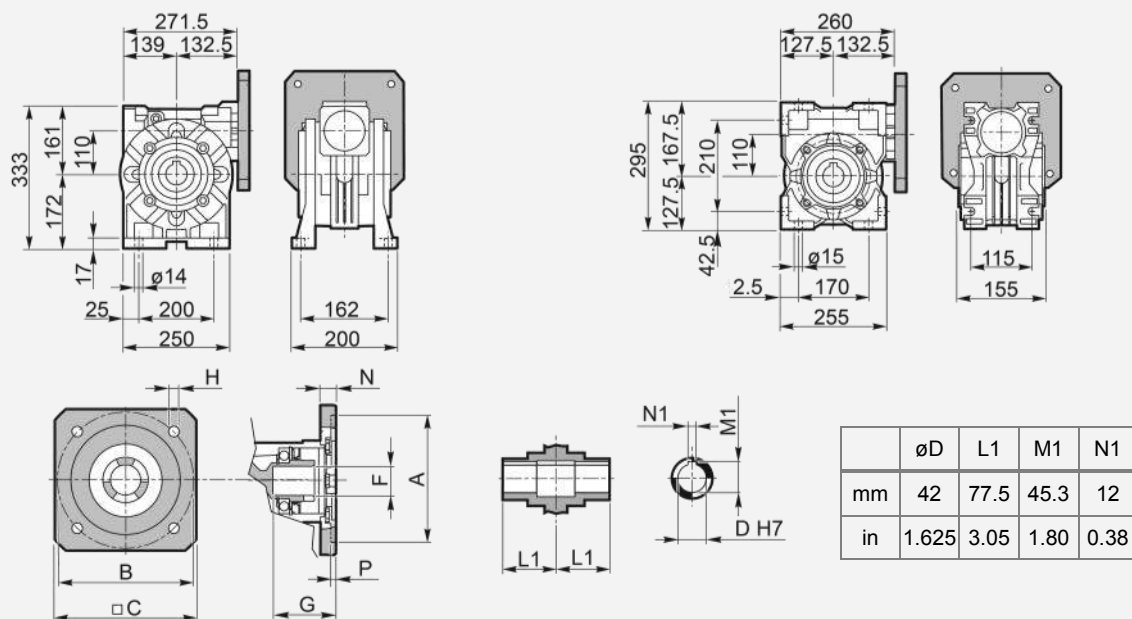
RS85 - RT85



| Codice flangia<br>Flange part No.<br>Flanschcode Nr.                                  | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |   |
|---------------------------------------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|---|
|                                                                                       | A (#)                                        | B   | C   | F    | G    | H      | N    | P |
| A180078A                                                                              | 95                                           | 115 | 110 | 28,5 | 65,5 | M8 - 4 | 15,5 | 3 |
| (#) - Ordinato per diametro centraggio<br>Dimensioni e pesi non impegnativi           |                                              |     |     |      |      |        |      |   |
| (#) - Sorted by spigot diameter<br>Dimensions and weights are not binding             |                                              |     |     |      |      |        |      |   |
| (#) - Sortiert nach Durchmesser Zentrierung<br>unverbindliche Abmessungen u. Gewichte |                                              |     |     |      |      |        |      |   |

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RS110 - RT110



| Codice flangia<br>Flange part No.<br>Flanschckde Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |    |         |    |   |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|----|---------|----|---|
|                                                      | A (#)                                        | B   | C   | F    | G  | H       | N  | P |
| APP120001                                            | 95                                           | 115 | 110 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| A180040A                                             | 110                                          | 130 | 126 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| APP120006                                            | 130                                          | 165 | 140 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| APP120033                                            | 130                                          | 165 | 140 | 28,5 | 65 | M10 - 4 | 18 | 5 |

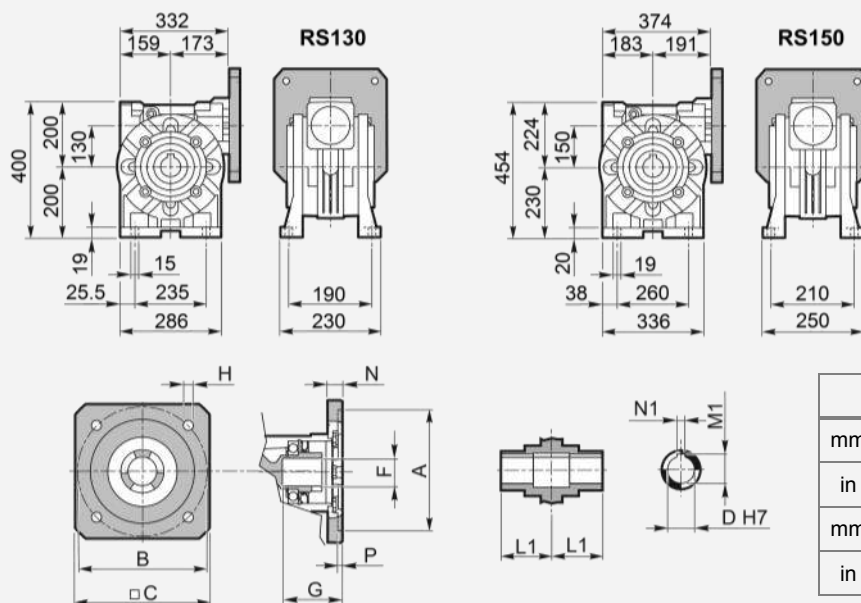
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RS130 - RS150



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |    |    |         |    |   |
|------------------------------------------------------|----------------------------------------------|-----|-----|----|----|---------|----|---|
|                                                      | A (#)                                        | B   | C   | F  | G  | H       | N  | P |
| A18.0072A<br>(RS130)                                 | 130                                          | 165 | 140 | 38 | 83 | M10 - 4 | 18 | 5 |
| A18.0072A<br>(RS150)                                 | 130                                          | 165 | 140 | 42 | 94 | M10 - 4 | 18 | 5 |

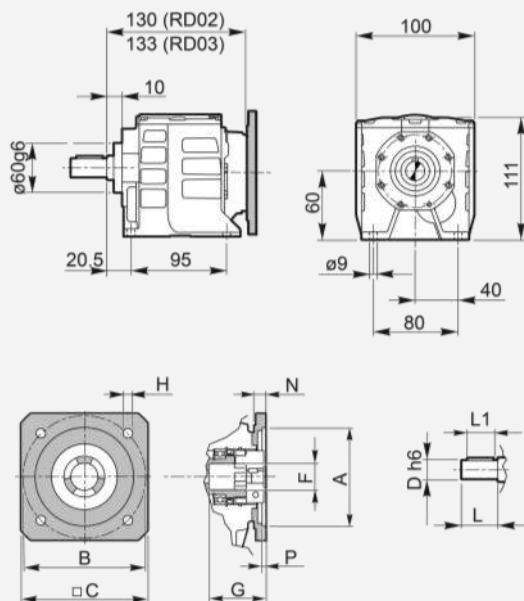
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RD02 - RD03



|    | øD            | L             | M1             | N1             |
|----|---------------|---------------|----------------|----------------|
| mm | 17<br>20      | 35<br>40      | 19<br>22.5     | 5<br>6         |
| in | 0.625<br>1.38 | 0.705<br>1.57 | 0.705<br>0.886 | 0.187<br>0.236 |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |       |    |           |             |        |      |      |
|------------------------------------------------------|----------------------------------------------|-------|----|-----------|-------------|--------|------|------|
|                                                      | A (#)                                        | B     | C  | F         | G           | H      | N    | P    |
| A18.0085A                                            | 38,1                                         | 66,66 | 65 | 19 - (14) | 44,5 - (32) | M4 - 4 | 15   | 10   |
| APP2258                                              | 40                                           | 63    | 65 | 19 - (14) | 44,5 - (32) | M5 - 4 | 15   | 10.5 |
| A180076A                                             | 40                                           | 73,5  | 65 | 19 - (14) | 43 - (30,5) | M4 - 4 | 13,5 | 4.5  |
| A180008A                                             | 50                                           | 95    | 80 | 19 - (14) | 43 - (30,5) | M6 - 4 | 13,5 | 4    |
| A180055A                                             | 50                                           | 70    | 60 | 19 - (14) | 43 - (30,5) | M5 - 4 | 13,5 | 3.5  |
| APP070006                                            | 60                                           | 75    | 72 | 19 - (14) | 43 - (30,5) | M5 - 4 | 13,5 | 3    |
| APP070003                                            | 70                                           | 90    | 80 | 19 - (14) | 43 - (30,5) | M6 - 4 | 13,5 | 4.5  |
| A180066A                                             | 70                                           | 90    | 80 | 19 - (14) | 49 - (36,5) | M6 - 4 | 19,5 | 4.5  |
| APP070011                                            | 73                                           | 98,29 | 85 | 19 - (14) | 43 - (30,5) | M5 - 4 | 13,5 | 4.5  |
| APP1897                                              | 73                                           | 98,43 | 83 | 19 - (14) | 44,5 - (32) | M5 - 5 | 19,8 | 10   |
| A180054A                                             | 73,025                                       | 98,43 | 87 | 19 - (14) | 44,5 - (32) | M6 - 4 | 15   | 4.5  |
| APP070002                                            | 80                                           | 100   | 85 | 19 - (14) | 43 - (30,5) | M6 - 4 | 13,5 | 4.5  |
| APP070008                                            | 80                                           | 100   | 85 | 19 - (14) | 43 - (30,5) | M8 - 4 | 13,5 | 4.5  |
| A180051A                                             | 80                                           | 100   | 90 | 19 - (14) | 43 - (30,5) | M6 - 4 | 13,5 | 5.5  |
| APP070007                                            | 95                                           | 115   | 98 | 19 - (14) | 43 - (30,5) | M8 - 4 | 13,5 | 4    |
| A180007A                                             | 95                                           | 115   | 98 | 19 - (14) | 54,5 - (42) | M8 - 4 | 25   | 4    |

(::) - RD03

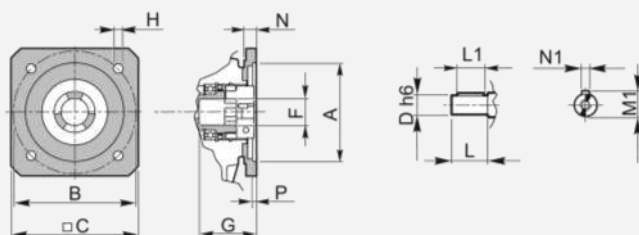
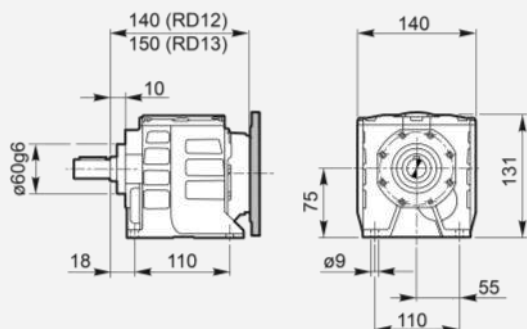
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RD12 - RD13



|    | øD       | L        | M1         | N1     |
|----|----------|----------|------------|--------|
| mm | 20<br>25 | 40<br>50 | 22.5<br>28 | 6<br>8 |
| in | 0.75     | 1.57     | 0.83       | 0.187  |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |           |               |        |      |     |
|------------------------------------------------------|----------------------------------------------|-----|-----|-----------|---------------|--------|------|-----|
|                                                      | A (#)                                        | B   | C   | F         | G             | H      | N    | P   |
| A180056A                                             | 70                                           | 90  | 80  | 24 - (14) | 52,5 - (31,5) | M6 - 4 | 13,5 | 4,5 |
| APP2144                                              | 70                                           | 90  | 80  | 24 - (14) | 55 - (34)     | M6 - 4 | 16   | 9   |
| APP2259                                              | 95                                           | 115 | 100 | 24 - (14) | 52 - (31)     | Ø9 - 4 | 13   | 4   |
| APP2134                                              | 110                                          | 145 | 120 | 24 - (14) | 55 - (34)     | M8 - 4 | 16   | 5   |

(::) - RD13

(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

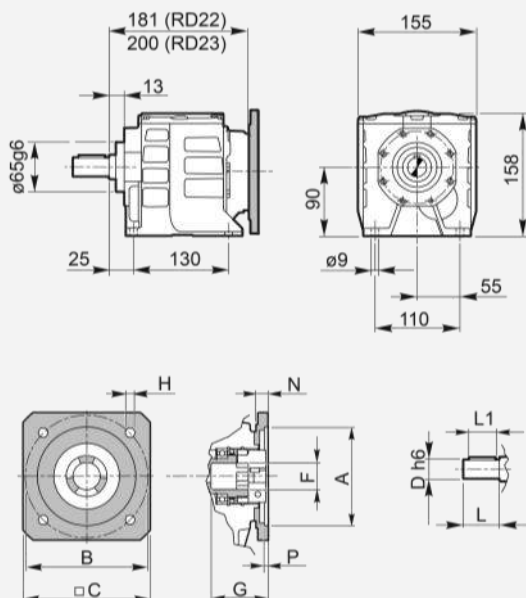
(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte



## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RD22 - RD23



|    | øD       | L        | M1       | N1   |
|----|----------|----------|----------|------|
| mm | 25<br>30 | 50<br>60 | 28<br>33 | 8    |
| in | 1.0      | 1.97     | 1.11     | 0.25 |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |             |             |        |      |      |
|------------------------------------------------------|----------------------------------------------|-----|-----|-------------|-------------|--------|------|------|
|                                                      | A (#)                                        | B   | C   | F           | G           | H      | N    | P    |
| A180077A                                             | 70                                           | 90  | 90  | 28,5 - (24) | 61,5-(54,5) | M6 - 4 | 14,5 | 4.5  |
| A180086A                                             | 80                                           | 100 | 105 | 28,5 - (24) | 62,5-(55,5) | M6 - 4 | 15,5 | 10.5 |
| A180088A                                             | 80                                           | 100 | 82  | 28,5 - (24) | 82 - (75)   | M6 - 4 | 35   | 5    |
| APP2132                                              | 95                                           | 115 | 100 | 28,5 - (24) | 69 - (62)   | M6 - 4 | 22   | 9    |
| APP2133                                              | 110                                          | 145 | 130 | 28,5 - (24) | 72 - (65)   | M8 - 4 | 25   | 7    |

(::) - RD23

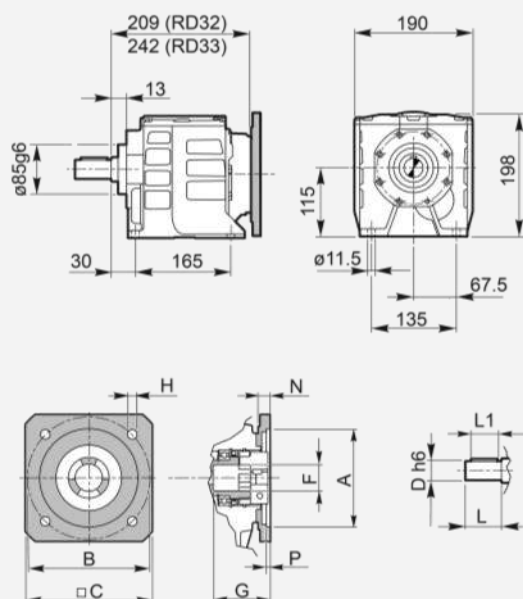
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RD32 - RD33



|    | øD       | L        | M1       | N1      |
|----|----------|----------|----------|---------|
| mm | 30<br>32 | 60<br>80 | 33<br>35 | 8<br>10 |
| in | 1.25     | 2.36     | 1.36     | 0.25    |

| Codice flangia<br>Flange part No.<br>Flanschkode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |      |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|------|
|                                                      | A (#)                                        | B   | C   | F    | G    | H      | N    | P    |
| A180077A                                             | 70                                           | 90  | 90  | 28,5 | 61,5 | M6 - 4 | 14,5 | 4,5  |
| A180086A                                             | 80                                           | 100 | 105 | 28,5 | 62,5 | M6 - 4 | 15,5 | 10,5 |
| A180088A                                             | 80                                           | 100 | 82  | 28,5 | 82   | M6 - 4 | 35   | 5    |
| APP2132                                              | 95                                           | 115 | 100 | 28,5 | 69   | M6 - 4 | 22   | 9    |
| APP2133                                              | 110                                          | 145 | 130 | 28,5 | 72   | M8 - 4 | 25   | 7    |

(::) - RD33

(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

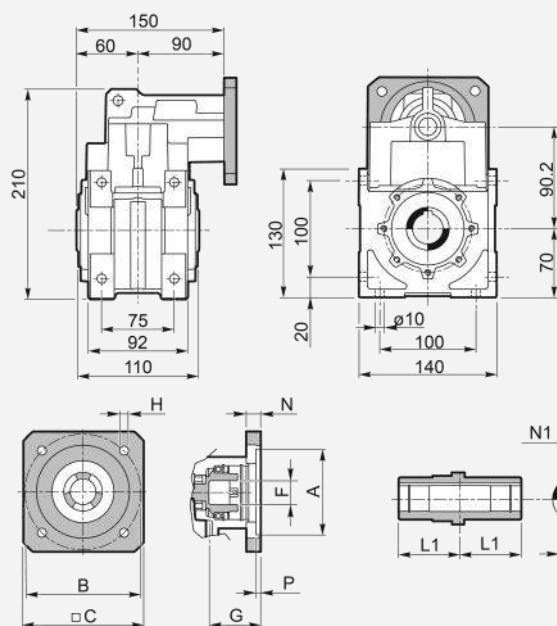
(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte



# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RN12 - RN13

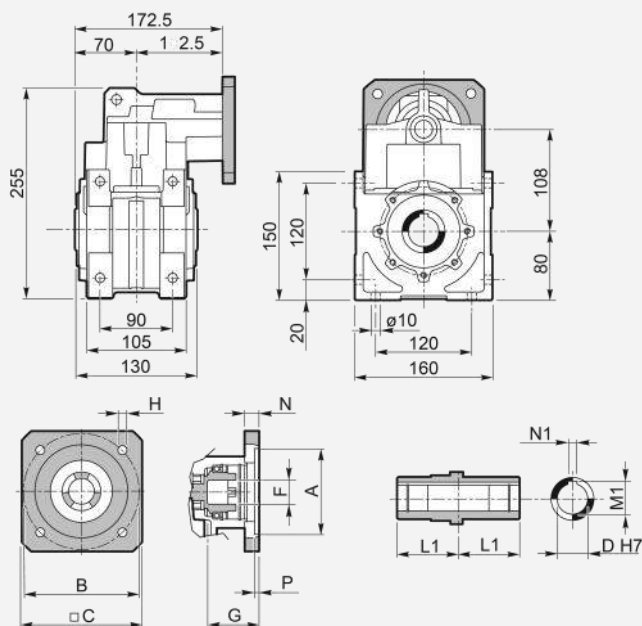


|    | øD          | L1   | M1           | N1   |
|----|-------------|------|--------------|------|
| mm | 30<br>35    | 60   | 28.3<br>33.3 | 8    |
| in | 1.0<br>1.25 | 2.36 | 1.13<br>1.25 | 0.25 |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr.                                                                                                                                                                                                                                                                                                                                      | Flangia motore - Motor flange - Motorflansch |     |     |    |      |        |      |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----|-----|----|------|--------|------|-----|
|                                                                                                                                                                                                                                                                                                                                                                                           | A (#)                                        | B   | C   | F  | G    | H      | N    | P   |
| A180056A                                                                                                                                                                                                                                                                                                                                                                                  | 70                                           | 90  | 80  | 24 | 52,5 | M6 - 4 | 13,5 | 4,5 |
| APP2144                                                                                                                                                                                                                                                                                                                                                                                   | 70                                           | 90  | 80  | 24 | 55   | M6 - 4 | 16   | 9   |
| APP2259                                                                                                                                                                                                                                                                                                                                                                                   | 95                                           | 115 | 100 | 24 | 52   | Ø9 - 4 | 13   | 4   |
| APP2134                                                                                                                                                                                                                                                                                                                                                                                   | 110                                          | 145 | 120 | 24 | 55   | M8 - 4 | 16   | 5   |
| <div> <div>           (#) - Ordinato per diametro centraggio<br/>           Dimensioni e pesi non impegnativi         </div> <div>           (#) - Sorted by spigot diameter<br/>           Dimensions and weights are not binding         </div> <div>           (#) - Sortiert nach Durchmesser Zentrierung<br/>           unverbindliche Abmessungen u. Gewichte         </div> </div> |                                              |     |     |    |      |        |      |     |

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RN22 - RN23



|    | øD            | L1   | M1           | N1      |
|----|---------------|------|--------------|---------|
| mm | 30<br>35      | 70   | 33.3<br>38.3 | 8<br>10 |
| in | 1.25<br>1.375 | 2.76 | 1.36<br>1.53 | 0.25    |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |      |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|------|
|                                                      | A (#)                                        | B   | C   | F    | G    | H      | N    | P    |
| A180077A                                             | 70                                           | 90  | 90  | 28,5 | 61,5 | M6 - 4 | 14,5 | 4,5  |
| A180086A                                             | 80                                           | 100 | 105 | 28,5 | 62,5 | M6 - 4 | 15,5 | 10,5 |
| A180088A                                             | 80                                           | 100 | 82  | 28,5 | 82   | M6 - 4 | 35   | 5    |
| APP2132                                              | 95                                           | 115 | 100 | 28,5 | 69   | M6 - 4 | 22   | 9    |
| APP2133                                              | 110                                          | 145 | 130 | 28,5 | 72   | M8 - 4 | 25   | 7    |

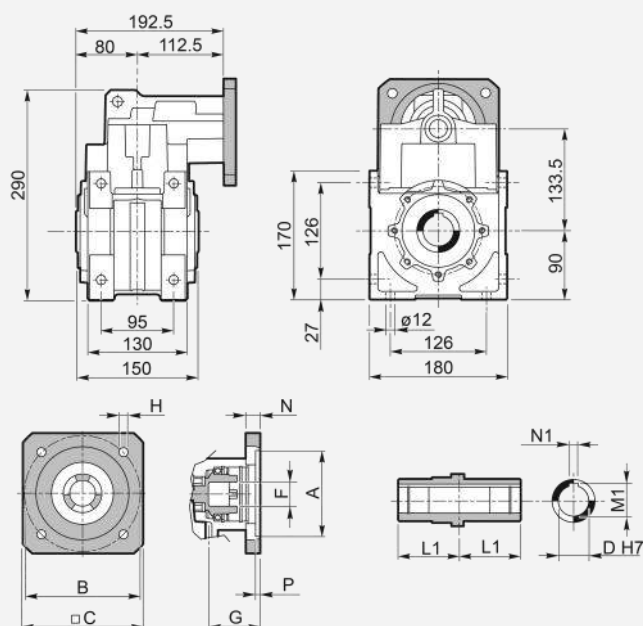
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RN32 - RN33



|    | øD           | L1   | M1           | N1            |
|----|--------------|------|--------------|---------------|
| mm | 35<br>40     | 80   | 38.3<br>43.3 | 10<br>12      |
| in | 1.375<br>1.5 | 3.15 | 1.53<br>1.69 | 0.25<br>0.375 |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |      |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|------|
|                                                      | A (#)                                        | B   | C   | F    | G    | H      | N    | P    |
| A180077A                                             | 70                                           | 90  | 90  | 28,5 | 61,5 | M6 - 4 | 14,5 | 4,5  |
| A180086A                                             | 80                                           | 100 | 105 | 28,5 | 62,5 | M6 - 4 | 15,5 | 10,5 |
| A180088A                                             | 80                                           | 100 | 82  | 28,5 | 82   | M6 - 4 | 35   | 5    |
| APP2132                                              | 95                                           | 115 | 100 | 28,5 | 69   | M6 - 4 | 22   | 9    |
| APP2133                                              | 110                                          | 145 | 130 | 28,5 | 72   | M8 - 4 | 25   | 7    |

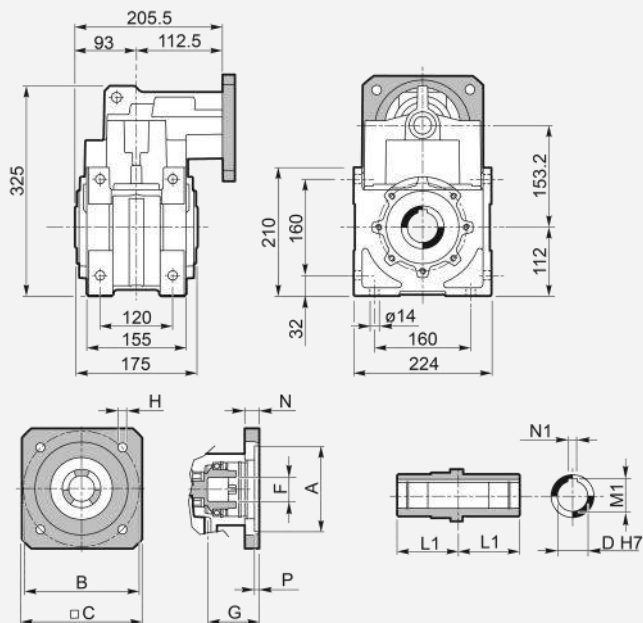
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RN42 - RN43



|    | øD           | L1   | M1           | N1             |
|----|--------------|------|--------------|----------------|
| mm | 40<br>50     | 93   | 43.3<br>53.8 | 12<br>14       |
| in | 1.5<br>1.625 | 3.66 | 1.69<br>1.81 | 0.325<br>0.375 |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |   |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|---|
|                                                      | A (#)                                        | B   | C   | F    | G    | H      | N    | P |
| A180078A                                             | 95                                           | 115 | 110 | 28,5 | 62,5 | M8 - 4 | 15,5 | 3 |

(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

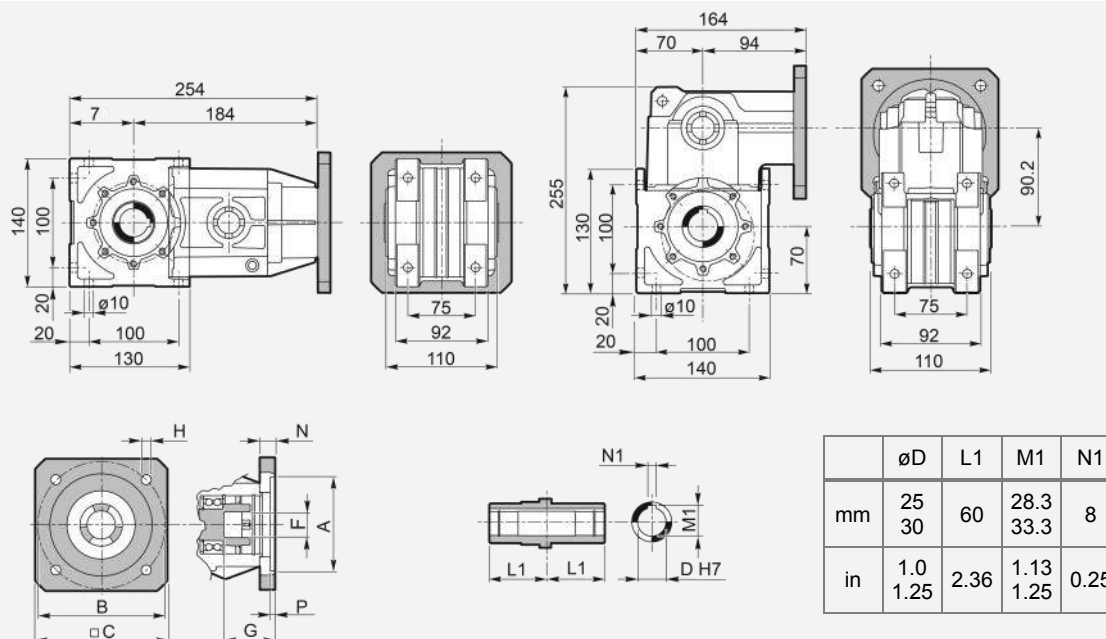
(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte



# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RO13 / RV13



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |    |      |        |      |     |
|------------------------------------------------------|----------------------------------------------|-----|-----|----|------|--------|------|-----|
|                                                      | A (#)                                        | B   | C   | F  | G    | H      | N    | P   |
| A180056A                                             | 70                                           | 90  | 80  | 24 | 52,5 | M6 - 4 | 13,5 | 4,5 |
| APP2144                                              | 70                                           | 90  | 80  | 24 | 55   | M6 - 4 | 16   | 9   |
| APP2259                                              | 95                                           | 115 | 100 | 24 | 52   | Ø9 - 4 | 13   | 4   |
| APP2134                                              | 110                                          | 145 | 120 | 24 | 55   | M8 - 4 | 16   | 5   |

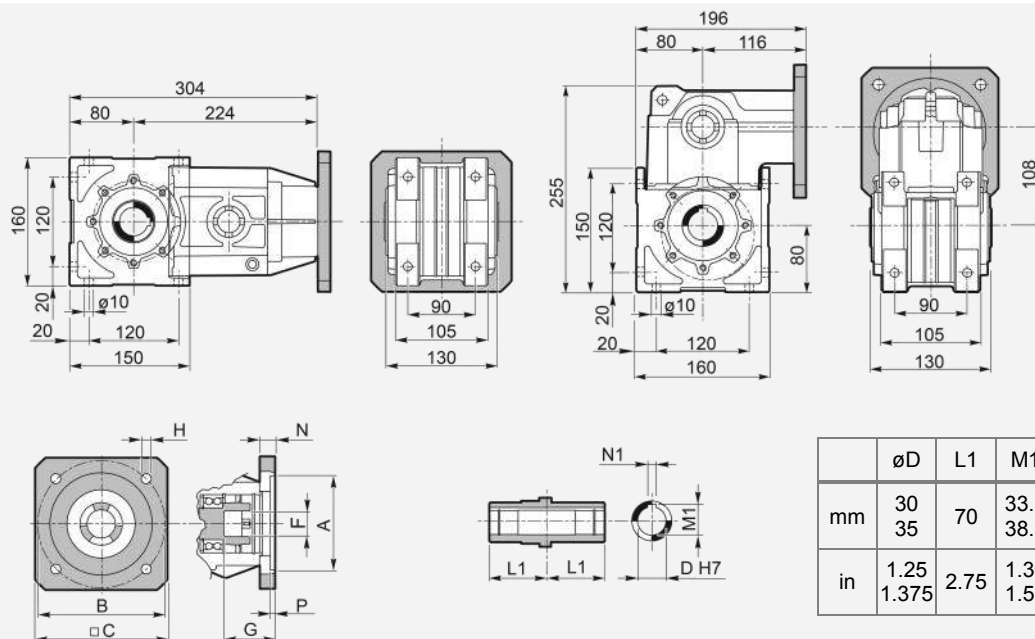
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

RO23 / RV23



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |      |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|------|
|                                                      | A (#)                                        | B   | C   | F    | G    | H      | N    | P    |
| A180077A                                             | 70                                           | 90  | 90  | 28,5 | 61,5 | M6 - 4 | 14,5 | 4,5  |
| A180086A                                             | 80                                           | 100 | 105 | 28,5 | 62,5 | M6 - 4 | 15,5 | 10,5 |
| A180088A                                             | 80                                           | 100 | 82  | 28,5 | 82   | M6 - 4 | 35   | 5    |
| APP2132                                              | 95                                           | 115 | 100 | 28,5 | 69   | M6 - 4 | 22   | 9    |
| APP2133                                              | 110                                          | 145 | 130 | 28,5 | 72   | M8 - 4 | 25   | 7    |

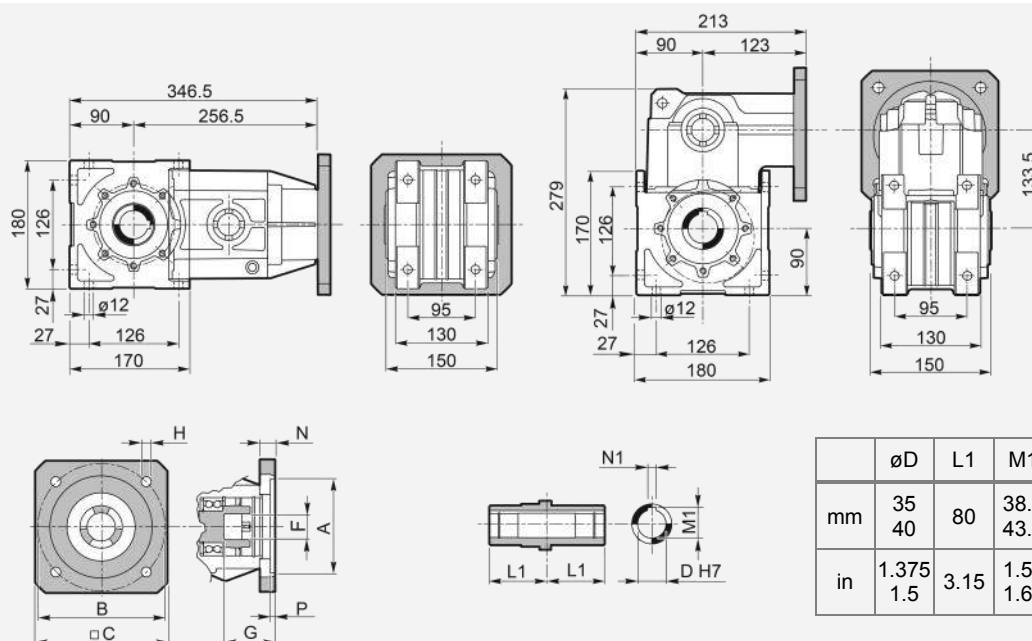
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RO33 / RV33



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |   |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|---|
|                                                      | A (#)                                        | B   | C   | F    | G    | H      | N    | P |
| A180078A                                             | 95                                           | 115 | 110 | 28,5 | 62,5 | M8 - 4 | 15,5 | 3 |

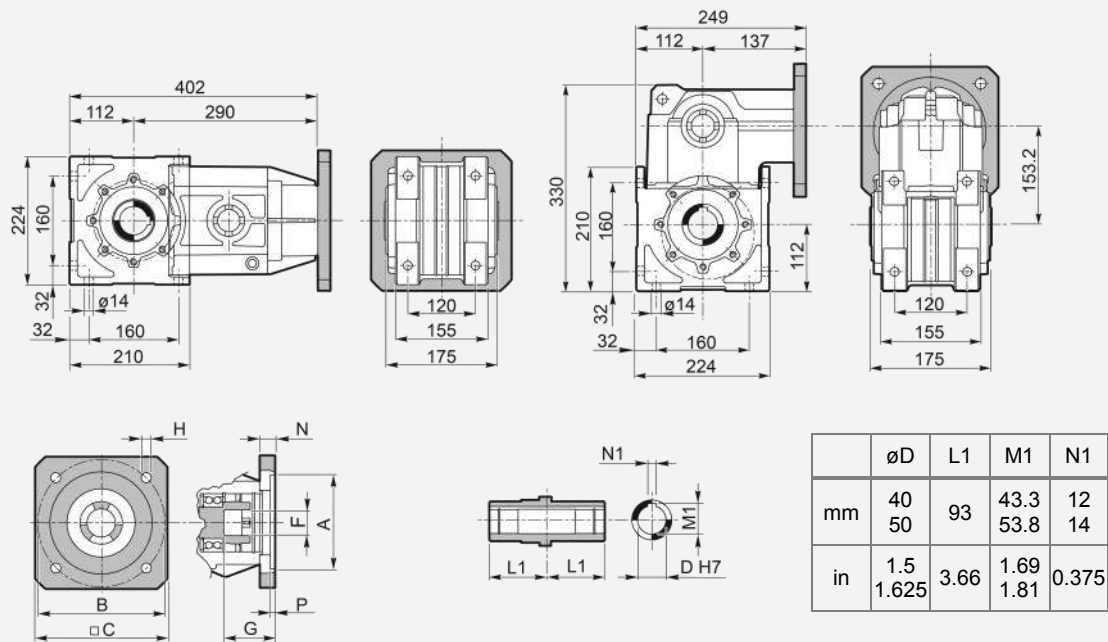
(#) - Ordinato per diametro centraggio  
 Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
 Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
 unverbindliche Abmessungen u. Gewichte

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RO43 / RV43



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |    |         |    |   |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|----|---------|----|---|
|                                                      | A (#)                                        | B   | C   | F    | G  | H       | N  | P |
| APP120001                                            | 95                                           | 115 | 110 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| A180040A                                             | 110                                          | 130 | 126 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| APP120006                                            | 130                                          | 165 | 140 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| APP120033                                            | 130                                          | 165 | 140 | 28,5 | 65 | M10 - 4 | 18 | 5 |

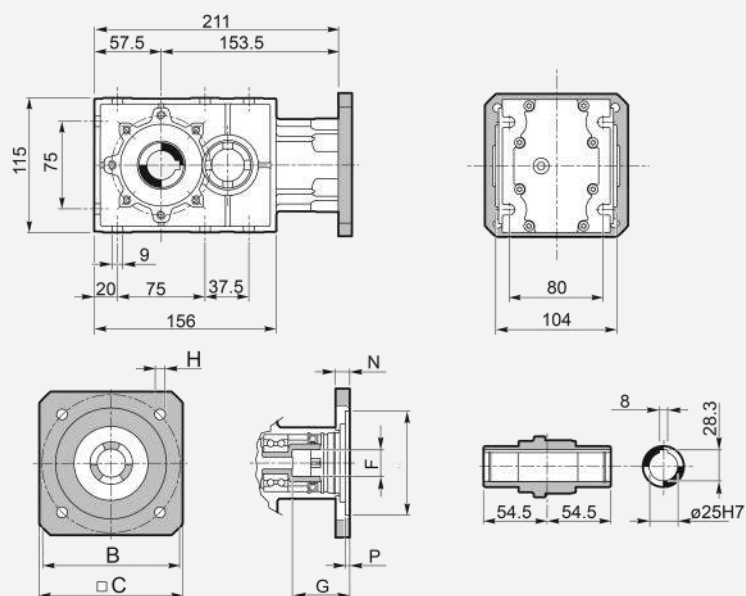
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RO02

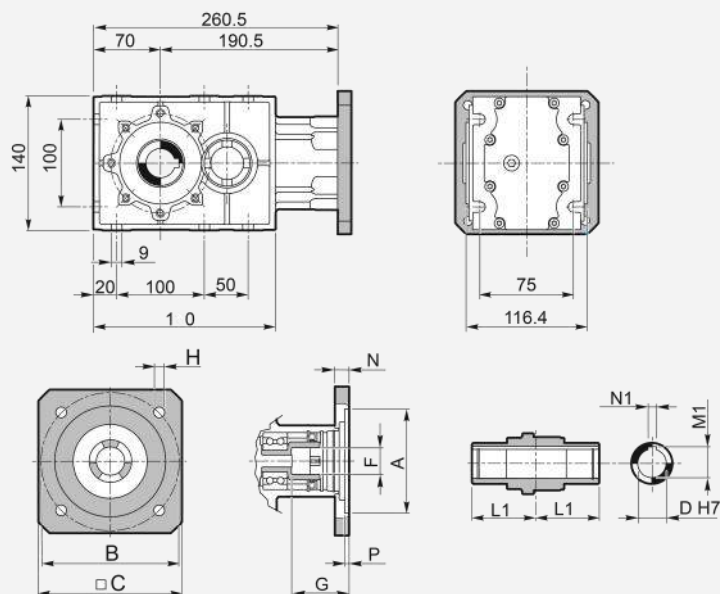


|    | øD  | L1   | M1   | N1   |
|----|-----|------|------|------|
| mm | 25  | 54.5 | 28.3 | 8    |
| in | 1.0 | 2.15 | 1.13 | 0.25 |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr.                                                                                                                                                                                                                                                                                                                                      | Flangia motore - Motor flange - Motorflansch |     |     |    |      |        |      |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----|-----|----|------|--------|------|-----|
|                                                                                                                                                                                                                                                                                                                                                                                           | A (#)                                        | B   | C   | F  | G    | H      | N    | P   |
| A180056A                                                                                                                                                                                                                                                                                                                                                                                  | 70                                           | 90  | 80  | 24 | 52,5 | M6 - 4 | 13,5 | 4,5 |
| APP2144                                                                                                                                                                                                                                                                                                                                                                                   | 70                                           | 90  | 80  | 24 | 55   | M6 - 4 | 16   | 9   |
| APP2259                                                                                                                                                                                                                                                                                                                                                                                   | 95                                           | 115 | 100 | 24 | 52   | Ø9 - 4 | 13   | 4   |
| APP2134                                                                                                                                                                                                                                                                                                                                                                                   | 110                                          | 145 | 120 | 24 | 55   | M8 - 4 | 16   | 5   |
| <div> <div>           (#) - Ordinato per diametro centraggio<br/>           Dimensioni e pesi non impegnativi         </div> <div>           (#) - Sorted by spigot diameter<br/>           Dimensions and weights are not binding         </div> <div>           (#) - Sortiert nach Durchmesser Zentrierung<br/>           unverbindliche Abmessungen u. Gewichte         </div> </div> |                                              |     |     |    |      |        |      |     |

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RO12



|    | øD           | L1   | M1           | N1   |
|----|--------------|------|--------------|------|
| mm | 25<br>30     | 60   | 28.3<br>33.3 | 8    |
| in | 1.0<br>1.125 | 2.36 | 1.13<br>1.25 | 0.25 |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |      |
|------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|------|
|                                                      | A (#)                                        | B   | C   | F    | G    | H      | N    | P    |
| A180077A                                             | 70                                           | 90  | 90  | 28,5 | 61,5 | M6 - 4 | 14,5 | 4,5  |
| A180086A                                             | 80                                           | 100 | 105 | 28,5 | 62,5 | M6 - 4 | 15,5 | 10,5 |
| A180088A                                             | 80                                           | 100 | 82  | 28,5 | 82   | M6 - 4 | 35   | 5    |
| APP2132                                              | 95                                           | 115 | 100 | 28,5 | 69   | M6 - 4 | 22   | 9    |
| APP2133                                              | 110                                          | 145 | 130 | 28,5 | 72   | M8 - 4 | 25   | 7    |

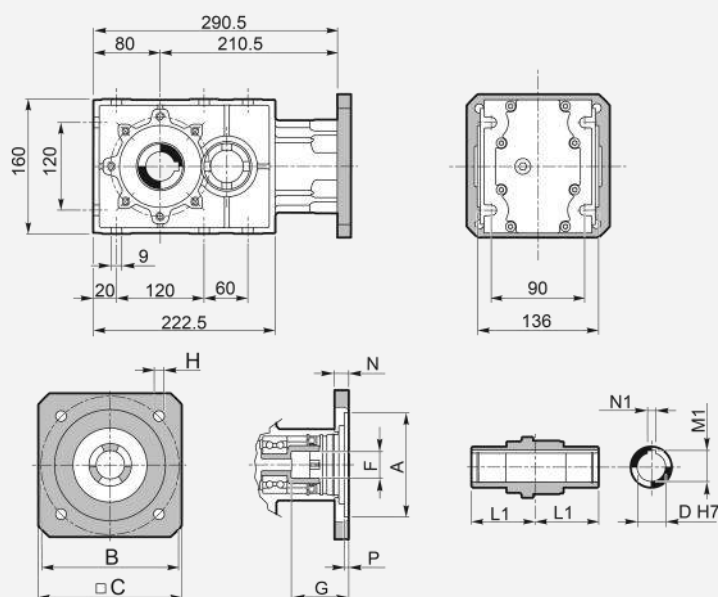
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RO22

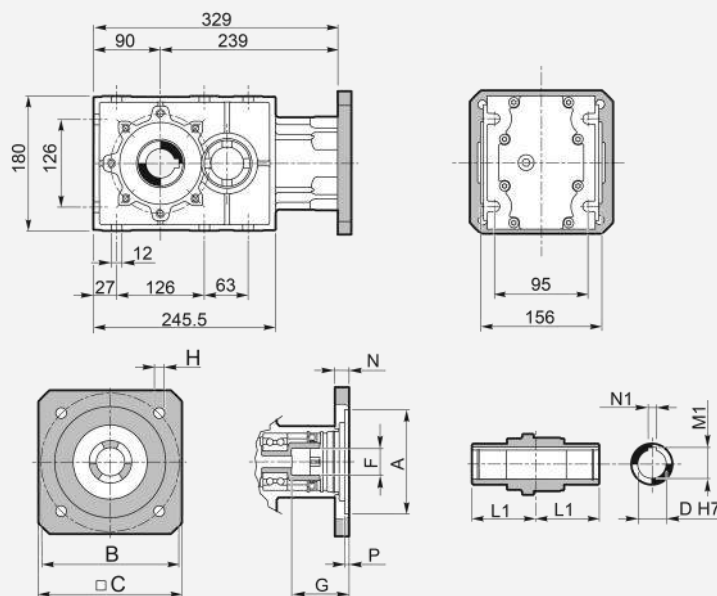


|    | øD            | L1   | M1           | N1      |
|----|---------------|------|--------------|---------|
| mm | 30<br>35      | 70   | 33.3<br>38.3 | 8<br>10 |
| in | 1.25<br>1.375 | 2.76 | 1.38<br>1.53 | 0.25    |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr.                                                                                                                                                                                                                                                                                                                                      | Flangia motore - Motor flange - Motorflansch |     |     |      |      |        |      |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----|-----|------|------|--------|------|---|
|                                                                                                                                                                                                                                                                                                                                                                                           | A (#)                                        | B   | C   | F    | G    | H      | N    | P |
| A180078A                                                                                                                                                                                                                                                                                                                                                                                  | 95                                           | 115 | 110 | 28,5 | 62,5 | M8 - 4 | 15,5 | 3 |
| <div> <div>           (#) - Ordinato per diametro centraggio<br/>           Dimensioni e pesi non impegnativi         </div> <div>           (#) - Sorted by spigot diameter<br/>           Dimensions and weights are not binding         </div> <div>           (#) - Sortiert nach Durchmesser Zentrierung<br/>           unverbindliche Abmessungen u. Gewichte         </div> </div> |                                              |     |     |      |      |        |      |   |

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

RO32



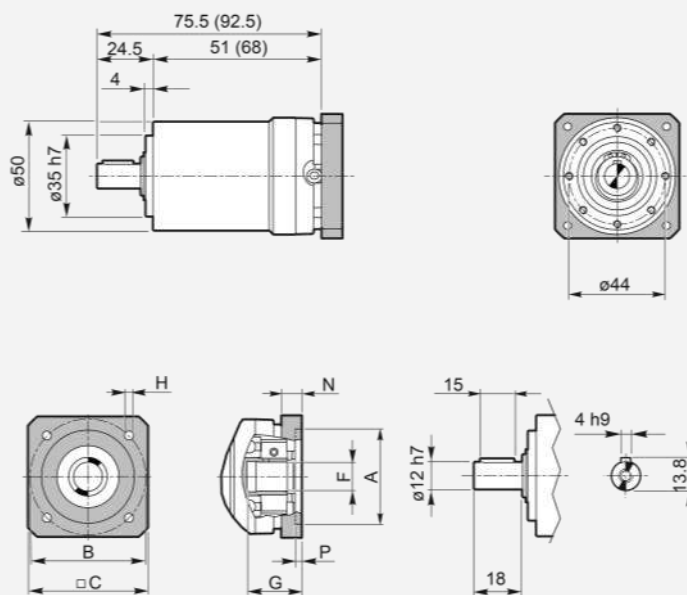
|    | øD           | L1   | M1           | N1            |
|----|--------------|------|--------------|---------------|
| mm | 35<br>40     | 80   | 38.3<br>43.3 | 10<br>12      |
| in | 1.375<br>1.5 | 3.15 | 1.53<br>1.69 | 0.25<br>0.375 |

| Codice flangia<br>Flange part No.<br>Flanschcode Nr.                                                                                                                                                                                                                                                                                                                                      | Flangia motore - Motor flange - Motorflansch |     |     |      |    |         |    |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----|-----|------|----|---------|----|---|
|                                                                                                                                                                                                                                                                                                                                                                                           | A (#)                                        | B   | C   | F    | G  | H       | N  | P |
| APP120001                                                                                                                                                                                                                                                                                                                                                                                 | 95                                           | 115 | 110 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| A180040A                                                                                                                                                                                                                                                                                                                                                                                  | 110                                          | 130 | 126 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| APP120006                                                                                                                                                                                                                                                                                                                                                                                 | 130                                          | 165 | 140 | 28,5 | 65 | M8 - 4  | 18 | 5 |
| APP120033                                                                                                                                                                                                                                                                                                                                                                                 | 130                                          | 165 | 140 | 28,5 | 65 | M10 - 4 | 18 | 5 |
| <div> <div>           (#) - Ordinato per diametro centraggio<br/>           Dimensioni e pesi non impegnativi         </div> <div>           (#) - Sorted by spigot diameter<br/>           Dimensions and weights are not binding         </div> <div>           (#) - Sortiert nach Durchmesser Zentrierung<br/>           unverbindliche Abmessungen u. Gewichte         </div> </div> |                                              |     |     |      |    |         |    |   |



# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RG051 - RG052



| Codice flangia<br>Flange part No.<br>Flanschkode Nr. | Flangia motore - Motor flange - Motorflansch |       |    |    |         |        |      |     |
|------------------------------------------------------|----------------------------------------------|-------|----|----|---------|--------|------|-----|
|                                                      | A (#)                                        | B     | C  | F  | G       | H      | N    | P   |
| APP050004                                            | 22                                           | 43.84 | 56 | 11 | 22 - 30 | Ø5 - 4 | 7    | 4,5 |
| A180043A                                             | 30                                           | 45    | 50 | 11 | 24 - 32 | M3 - 4 | 9    | 3   |
| APP050009                                            | 36                                           | 70.71 | 60 | 11 | 24 - 32 | M4 - 4 | 9    | 4,5 |
| A180003A                                             | 36                                           | 70.71 | 60 | 11 | 28 - 36 | M4 - 4 | 13   | 4,5 |
| APP050006                                            | 38.1                                         | 66.66 | 56 | 11 | 24 - 32 | M4 - 4 | 9    | 4,5 |
| A180001A                                             | 38.1                                         | 66.66 | 56 | 11 | 30 - 38 | M4 - 4 | 14,5 | 4,5 |
| APP2101                                              | 38.1                                         | 66.66 | 57 | 11 | 28 - 36 | M4 - 4 | 13   | 2,5 |
| APP050003                                            | 40                                           | 63    | 56 | 11 | 24 - 32 | M5 - 4 | 9    | 4,5 |
| A180002A                                             | 40                                           | 63    | 56 | 11 | 28 - 36 | M5 - 4 | 13   | 4,5 |
| A180083A                                             | 40                                           | 63    | 56 | 11 | 32 - 40 | M5 - 4 | 17   | 4,5 |
| APP050013                                            | 50                                           | 70    | 60 | 11 | 24 - 32 | M5 - 4 | 9    | 4,5 |
| APP050022                                            | 50                                           | 70    | 60 | 11 | 36 - 44 | M4 - 4 | 21   | 4,5 |
| APP050027                                            | 50                                           | 70    | 60 | 11 | 36 - 44 | M5 - 4 | 21   | 4,5 |
| A180005A                                             | 50                                           | 70    | 60 | 11 | 28 - 36 | M5 - 4 | 13   | 4,5 |
| APP050035                                            | 60                                           | 75    | 65 | 11 | 27 - 36 | M5 - 4 | 12   | 4,5 |
| 652206070                                            | 60                                           | 75    | 70 | 11 | 23      | M4 - 4 | 21   | 4   |
| APP1829                                              | 73                                           | 98.43 | 83 | 11 | 37 - 45 | M5 - 5 | 22,3 | 10  |

(::) - RG052

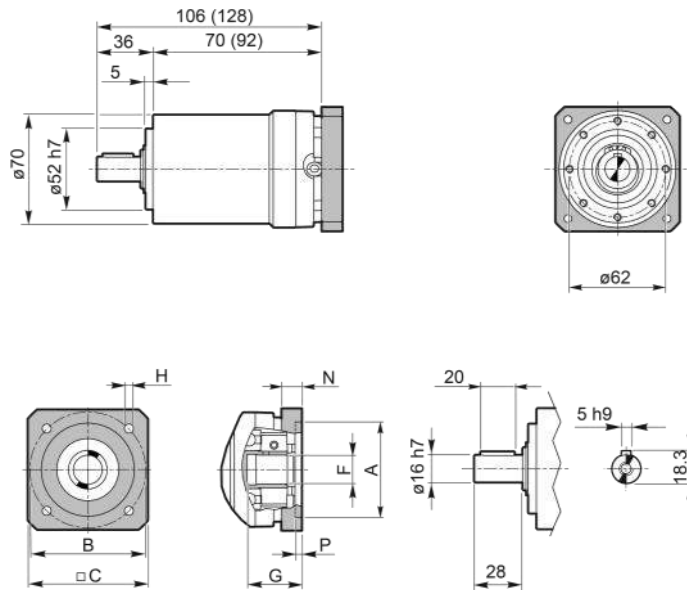
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

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unverbindliche Abmessungen u. Gewichte

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RG071 - RG072



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |       |    |    |         |        |      |      |
|------------------------------------------------------|----------------------------------------------|-------|----|----|---------|--------|------|------|
|                                                      | A (#)                                        | B     | C  | F  | G       | H      | N    | P    |
| A18.0085A                                            | 38,1                                         | 66,66 | 65 | 19 | 36 - 45 | M4 - 4 | 15   | 10   |
| APP2258                                              | 40                                           | 63    | 65 | 19 | 36 - 45 | M5 - 4 | 15   | 10.5 |
| A180076A                                             | 40                                           | 73,5  | 65 | 19 | 34 - 43 | M4 - 4 | 13,5 | 4.5  |
| A180008A                                             | 50                                           | 95    | 80 | 19 | 34 - 43 | M6 - 4 | 13,5 | 4    |
| A180055A                                             | 50                                           | 70    | 60 | 19 | 34 - 43 | M5 - 4 | 13,5 | 3.5  |
| APP070006                                            | 60                                           | 75    | 72 | 19 | 34 - 43 | M5 - 4 | 13,5 | 3    |
| APP070003                                            | 70                                           | 90    | 80 | 19 | 34 - 43 | M6 - 4 | 13,5 | 4.5  |
| A180066A                                             | 70                                           | 90    | 80 | 19 | 40 - 49 | M6 - 4 | 19,5 | 4.5  |
| APP070011                                            | 73                                           | 98,29 | 85 | 19 | 34 - 43 | M5 - 4 | 13,5 | 4.5  |
| APP1897                                              | 73                                           | 98,43 | 83 | 19 | 40 - 49 | M5 - 5 | 19,8 | 10   |
| A180054A                                             | 73,025                                       | 98,43 | 87 | 19 | 36 - 45 | M6 - 4 | 15   | 4.5  |
| APP070002                                            | 80                                           | 100   | 85 | 19 | 34 - 43 | M6 - 4 | 13,5 | 4.5  |
| APP070008                                            | 80                                           | 100   | 85 | 19 | 34 - 43 | M8 - 4 | 13,5 | 4.5  |
| A180051A                                             | 80                                           | 100   | 90 | 19 | 34 - 43 | M6 - 4 | 13,5 | 5.5  |
| 653206085                                            | 80                                           | 100   | 85 | 19 | 29      | M6 - 4 | 25   | 4.5  |
| APP070009                                            | 80                                           | 100   | 85 | 19 | 29      | M6 - 4 | 25   | 4.5  |
| APP070007                                            | 95                                           | 115   | 98 | 19 | 34 - 43 | M8 - 4 | 13,5 | 4    |
| A180007A                                             | 95                                           | 115   | 98 | 19 | 46 - 55 | M8 - 4 | 25   | 4    |

(::) - RG072

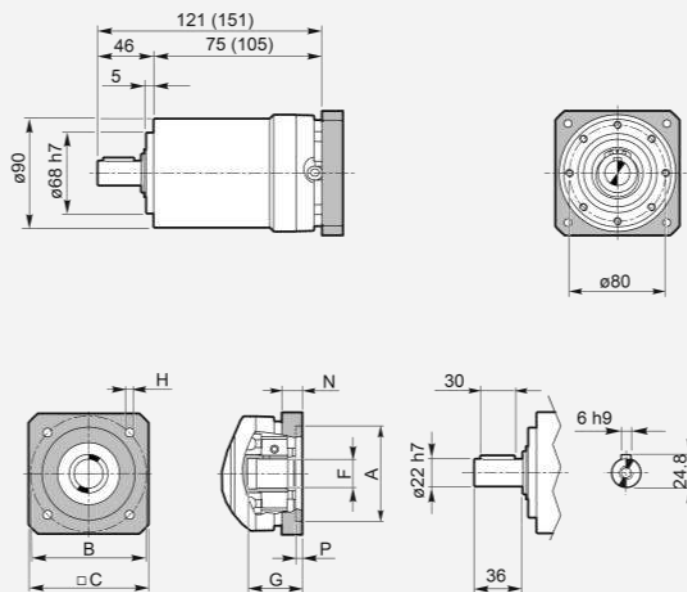
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

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unverbindliche Abmessungen u. Gewichte

# Getriebe für Servomotoren - Gearboxes for Servomotors - Riduttori per Servomotori

RG091 -RG092



| Codice flangia<br>Flange part No.<br>Flanschcode Nr. | Flangia motore - Motor flange - Motorflansch |       |     |    |         |          |      |     |
|------------------------------------------------------|----------------------------------------------|-------|-----|----|---------|----------|------|-----|
|                                                      | A (#)                                        | B     | C   | F  | G       | H        | N    | P   |
| APP090011                                            | 70                                           | 90    | 80  | 24 | 41 - 65 | M6 - 4   | 14,5 | 4.5 |
| A180064A                                             | 73                                           | 98.43 | 86  | 24 | 41 - 65 | M6 - 4   | 14,5 | 4.5 |
| APP090009                                            | 80                                           | 100   | 85  | 24 | 41 - 65 | M6 - 4   | 14,5 | 4.5 |
| A180037A                                             | 80                                           | 100   | 90  | 24 | 44 - 68 | M6 - 4   | 18   | 6   |
| APP090013                                            | 95                                           | 115   | 100 | 24 | 41 - 65 | M8 - 4   | 14,5 | 4.5 |
| APP090014                                            | 95                                           | 115   | 100 | 24 | 45 - 69 | M6 - 4   | 19   | 4.5 |
| APP090041                                            | 95                                           | 135   | 120 | 24 | 41 - 65 | M8 - 4   | 14,5 | 6.5 |
| APP090012                                            | 110                                          | 145   | 120 | 24 | 41 - 65 | M8 - 4   | 14,5 | 6.5 |
| APP090040                                            | 110                                          | 145   | 120 | 24 | 46 - 70 | M8 - 4   | 19,5 | 6.5 |
| A180036A                                             | 110                                          | 130   | 125 | 24 | 51 - 75 | Ø8,5 - 4 | 25   | 8.5 |
| A180041A                                             | 110                                          | 145   | 130 | 24 | 45 - 69 | M8 - 4   | 19   | 11  |
| A180045A                                             | 110                                          | 145   | 120 | 24 | 54 - 78 | M8 - 4   | 28   | 6.5 |
| A180059A                                             | 110                                          | 145   | 120 | 24 | 41 - 65 | M8 - 4   | 14,5 | 3.5 |
| A180061A                                             | 110                                          | 145   | 130 | 24 | 41 - 65 | M8 - 4   | 14,5 | 3.5 |
| 654206120                                            | 110                                          | 130   | 120 | 24 | 50      | M8 - 4   | 50   | 4,5 |
| APP090003                                            | 60                                           | 75    | 95  | 24 | 38      | Ø6 - 4   | 37,5 | 4,5 |

(::) - RG092

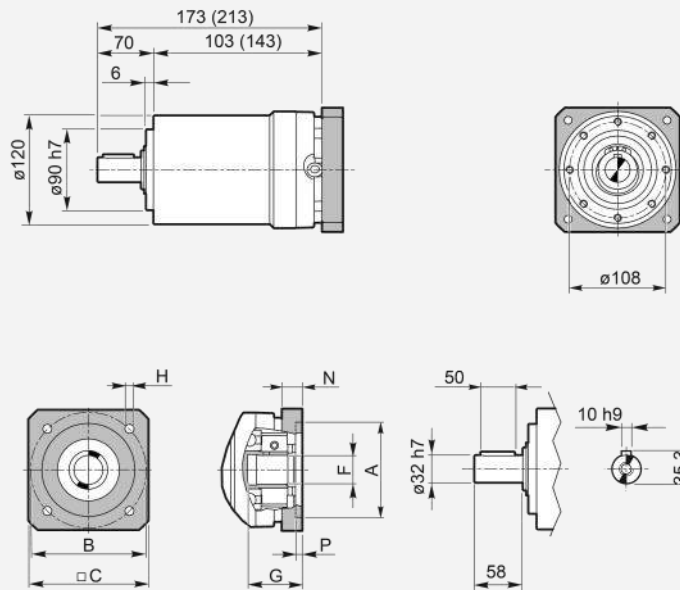
(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

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unverbindliche Abmessungen u. Gewichte

## Riduttori per Servomotori - Gearboxes for Servomotors - Getriebe für Servomotoren

### RG121 - RG122



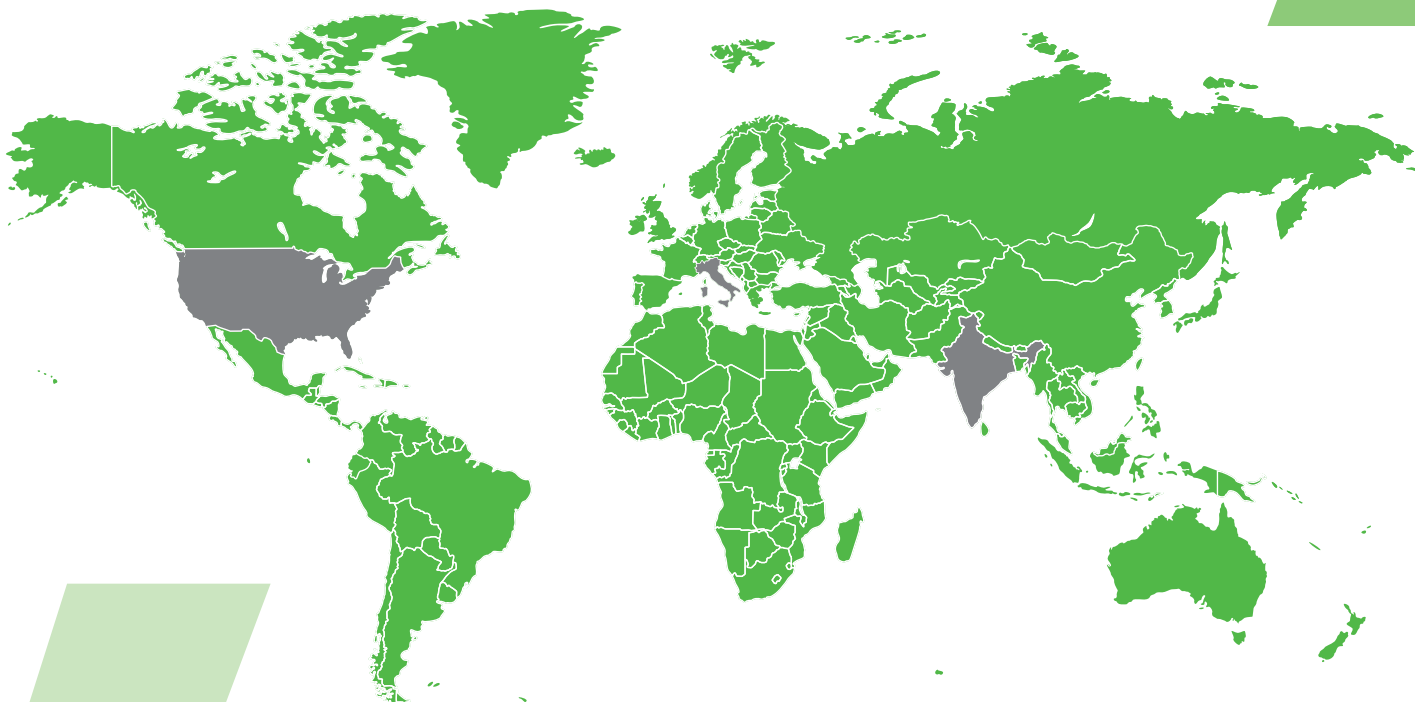
| Codice flangia<br>Flange part No.<br>Flanschkode Nr. | Flangia motore - Motor flange - Motorflansch |     |     |    |         |         |    |   |
|------------------------------------------------------|----------------------------------------------|-----|-----|----|---------|---------|----|---|
|                                                      | A (#)                                        | B   | C   | F  | G       | H       | N  | P |
| APP120001                                            | 95                                           | 115 | 110 | 38 | 51 - 80 | M8 - 4  | 18 | 5 |
| A180082A                                             | 110                                          | 130 | 126 | 38 | 59      | M8 - 4  | 58 | 5 |
| 655206001                                            | 110                                          | 145 | 130 | 38 | 66      | M8 - 4  | 65 | 7 |
| A180040A                                             | 110                                          | 130 | 126 | 38 | 51 - 80 | M8 - 4  | 18 | 5 |
| 655206158                                            | 130                                          | 165 | 158 | 38 | 59      | M10 - 4 | 58 | 7 |
| APP120006                                            | 130                                          | 165 | 140 | 38 | 51 - 80 | M8 - 4  | 18 | 5 |
| APP120033                                            | 130                                          | 165 | 140 | 38 | 51 - 80 | M10 - 4 | 18 | 5 |

(::) - RG0122

(#) - Ordinato per diametro centraggio  
Dimensioni e pesi non impegnativi

(#) - Sorted by spigot diameter  
Dimensions and weights are not binding

(#) - Sortiert nach Durchmesser Zentrierung  
unverbindliche Abmessungen u. Gewichte



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