

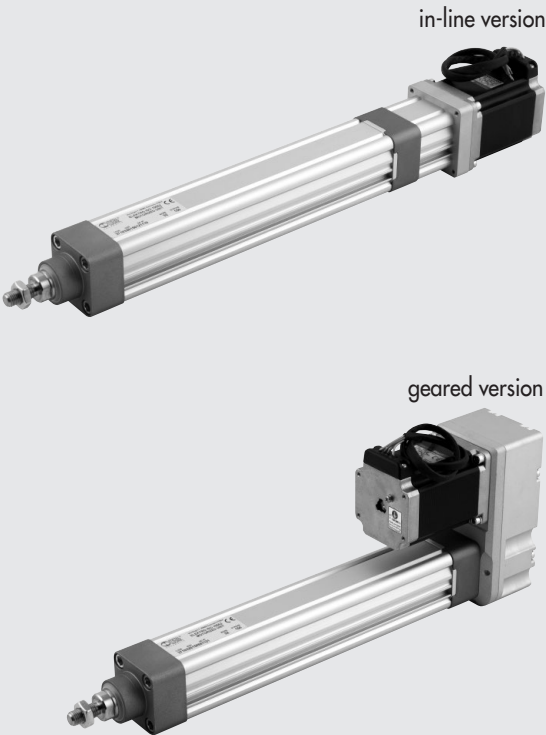
# ELECTRIC CYLINDER SERIES ELEKTRO ISO 15552

This electric cylinder features an ISO 15552 mounting interface that ensures full compatibility with the standard accessories used in pneumatic cylinders. The piston rod is moved by a hardened and tempered screw coupled with a ball recirculation nut, which guarantees precision and reliability over time. A version with a built-in anti-rotation system is also available. It consists of two opposing pads that slide along special longitudinal grooves cut out of the cylinder sleeve. These grooves are designed to house sensors, while the piston is equipped with a magnet. The rod boasts an enhanced outer diameter and thickness, which guarantees maximum rigidity and greater resistance to radial and peak loads. The system also includes a device for lubricating the screw and nut, thereby ensuring long life and steady performance.

The cylinder can be secured using a wide range of standard accessories, readily available in both aluminium and steel, which is particularly suitable for applications subject to high mechanical stress.

The cylinder can be equipped with motors chosen from an optimised range, which includes stepper motors and brushless motors. Versions with an in-line motor are available, where the motor shaft is connected directly to the screw via a coupling, and versions with a geared motor, where motion is driven via pulleys and a toothed belt. The most suitable drives for motor control are also provided. On request, flanges and adaptor couplings can be manufactured with a view to allowing the use of specific brand motors chosen by the customer.

**N.B.:** A piston rod anti-rotation system must be used. If the piston rod is not fixed firmly to an element, a flange or to any other device preventing it from rotating, a cylinder in the anti-rotation version must be used.



| TECHNICAL DATA                                                                   |  |  | Ø 32                                                       | Ø 50    | Ø 63<br>Ø63 HD | Ø 80                                                                                                | Ø 100<br>Ø 100 HD |
|----------------------------------------------------------------------------------|--|--|------------------------------------------------------------|---------|----------------|-----------------------------------------------------------------------------------------------------|-------------------|
| Piston rod thread                                                                |  |  | M10x1.25                                                   | M16x1.5 | M16x1.5        | M20x1.5                                                                                             |                   |
| Temperature range                                                                |  |  | see single motor data sheet                                |         |                |                                                                                                     |                   |
|                                                                                  |  |  | from -10 to +50                                            |         |                |                                                                                                     |                   |
| Electrical protection rating with                                                |  |  | IP20/IP40 or IP55 (see key to codes on page <b>A5.33</b> ) |         |                | IP55 (only for Ø 80 and Ø 100)                                                                      |                   |
|                                                                                  |  |  | IP40 or IP65 (see key to codes on page <b>A5.33</b> )      |         |                | IP65                                                                                                |                   |
| Minimum stroke for version with non-rotating                                     |  |  | Twice the screw pitch (to guarantee ball lubrication)      |         |                |                                                                                                     |                   |
| Minimum stroke for version without non-rotating                                  |  |  | 80 (in order to re-grease the screw)                       |         |                | 125 (in order to re-grease the screw)                                                               |                   |
| Maximum stroke                                                                   |  |  | 1370                                                       |         | 1500           |                                                                                                     |                   |
| Positioning repeatability                                                        |  |  | ± 0.02                                                     |         |                |                                                                                                     |                   |
| Positioning accuracy                                                             |  |  | ± 0.2 **                                                   |         |                |                                                                                                     |                   |
| Overall radial oscillation of the piston rod (without load) for 100 mm of stroke |  |  | 0.4                                                        |         |                |                                                                                                     |                   |
| Versions                                                                         |  |  | With or without piston rod non-rotating                    |         |                | With or without piston rod non-rotating; in line or geared motor; with or without planetary gearbox |                   |
| Uncontrolled impact at the end of stroke                                         |  |  | NOT ALLOWED (it provides an extra-stroke minimum 5 mm)     |         |                |                                                                                                     |                   |
| Sensor magnet                                                                    |  |  | YES                                                        |         |                |                                                                                                     |                   |
| Maximum angle of twist of the piston rod for non-rotating version                |  |  | 1°30'                                                      | 1°      | 0°45'          | 0°35'                                                                                               | 0°30'             |
| Work position                                                                    |  |  | Any                                                        |         |                |                                                                                                     |                   |

\*\* indicative average data that gets influenced by various factors such as the stroke, the type of motor, the cylinder version, etc ...

**N.B.:** On request available with:

- piston rod in stainless steel (Ø32, Ø50 in AISI 316; Ø63, Ø63HD, Ø80, Ø100, Ø100 HD in AISI 304), with limitations to the maximum stroke;
- head-sleeve fixing screws in AISI 316 stainless steel;
- lubrication grease compatible with the food industry, certified NSF Cat. H1 (accidental contact with food).

| MECHANICAL FEATURES                                                         |       | Ø 32 |      | Ø 50 |      |      | Ø 63  |       |      | Ø 63 HD |       | Ø 80  |       |       | Ø 100 |       | Ø 100 HD |
|-----------------------------------------------------------------------------|-------|------|------|------|------|------|-------|-------|------|---------|-------|-------|-------|-------|-------|-------|----------|
| Screw pitch (p)                                                             | mm    | 4    | 12   | 5    | 10   | 16   | 5     | 10    | 20   | 5       | 10    | 5     | 10    | 32    | 10    | 40    | 10       |
| Screw diameter                                                              | mm    | 12   | 12   | 16   | 16   | 16   | 20    | 20    | 20   | 20      | 20    | 32    | 32    | 32    | 50    | 40    | 50       |
| Static axial load (F <sub>s</sub> )*                                        | N     | 2800 |      | 3700 |      |      | 6900  |       |      | 13500   |       | 24100 |       |       | 32000 |       | 40000    |
| Dynamic axial load (F)                                                      | N     | 5000 | 5000 | 6700 | 6670 | 4330 | 10010 | 11200 | 4880 | 17600   | 18980 | 30890 | 36300 | 26400 | 44200 | 43510 | 73000    |
| Calculate mean axial load and the calculate life (see graphs on page A5.10) |       |      |      |      |      |      |       |       |      |         |       |       |       |       |       |       |          |
| Maximum number of revs                                                      | 1/min | 4000 |      | 3000 |      |      | 2500  |       |      | 2500    |       | 2000  |       |       | 3000  | 2200  | 3000     |
| Maximum speed (V <sub>max</sub> )                                           | mm/s  | 267  | 800  | 250  | 500  | 800  | 208   | 417   | 833  | 208     | 417   | 165   | 310   | 1100  | 500   | 1500  | 500      |

\* N.B.: Static loads bearable without damage. Useful loads are shown in the diagrams on page A5.12 onwards.

## WEIGHTS (ONLY CYLINDER)

|                                                    |    | Ø 32 |      | Ø 50 |      |      | Ø 63 - 63 HD |      |      |
|----------------------------------------------------|----|------|------|------|------|------|--------------|------|------|
| Screw pitch (p)                                    | mm | 4    | 12   | 5    | 10   | 16   | 5            | 10   | 20   |
| Transmission ratio (τ)                             |    | 1:1  | 1:1  | 1:1  | 1:1  | 1:1  | 1:1          | 1:1  | 1:1  |
| Weight at stroke 0                                 | g  | 896  | 973  | 1990 | 2043 | 2086 | 2942         | 3209 | 3056 |
| Additional weight each mm of stroke                | g  | 3.98 | 3.96 | 6.64 | 6.62 | 6.55 | 6.25         | 6.32 | 6.32 |
| Weight of the in-line transmission (without motor) | g  | 300  |      | 900  |      |      | 1100         |      |      |
| Weight of the geared transmission (without motor)  | g  | 1100 |      | 2000 |      |      | 3000         |      |      |
| Moving mass at stroke 0 (non-rotating version) Mx  | g  | 270  | 353  | 586  | 629  | 703  | 956          | 1215 | 1067 |
| Additional moving mass each mm of stroke           | g  | 1.25 |      | 1.84 |      |      | 1.98         |      |      |

|                                                    |    | Ø 80         |              |       | Ø 100       |                 |                 | Ø 100 HD     |  |
|----------------------------------------------------|----|--------------|--------------|-------|-------------|-----------------|-----------------|--------------|--|
| Screw pitch (p)                                    | mm | 5            | 10           | 32    | 10          | 40              | 10              | 10           |  |
| Transmission ratio (τ)                             |    | 1:1   1:1.25 | 1:1   1:1.25 | 1:1.5 | 1:1   1:1.5 | 1:1   1:2   1:3 | 1:1   1:2   1:3 | 1:1   1:2    |  |
| Weight at stroke 0                                 | g  | 8658         | 8629         | 8650  | 15049       | 13719           | 17056           |              |  |
| Additional weight each mm of stroke                | g  | 15.6         | 15.3         | 16    | 35.5        | 26              | 35.5            |              |  |
| Weight of the in-line transmission (without motor) | g  | 1700         |              |       | 2900        |                 |                 | 3200         |  |
| Weight of the geared transmission (without motor)  | g  | 6300         |              |       | 8700        |                 |                 | 12900   8800 |  |
| Moving mass at stroke 0 (non-rotating version) Mx  | g  | 3709         | 3730         | 3667  | 6630        | 6171            | 6630            |              |  |
| Additional moving mass each mm of stroke           | g  | 4.9          |              |       | 15          | 9.6             | 15              |              |  |

N.B.: You get the total weight of a complete cylinder by adding  
weight stroke 0 + stroke [mm] x weight for each mm of stroke + weight of the transmission + gearbox weight (if present) + weight of the motor.

## MASS MOMENTS OF INERTIA

|                         |                       | Ø 32    |         | Ø 50    |         |         | Ø 63 - 63 HD |         |               |
|-------------------------|-----------------------|---------|---------|---------|---------|---------|--------------|---------|---------------|
| Screw pitch             | mm                    | 4       | 12      | 5       | 10      | 16      | 5            | 10      | 20 (solo Ø63) |
| Transmission ratio (τ)  |                       | 1:1     | 1:1     | 1:1     | 1:1     | 1:1     | 1:1          | 1:1     | 1:1           |
| J0 at stroke 0          | kgmm <sup>2</sup>     | 1.2407  | 2.4309  | 5.3455  | 6.1360  | 9.1113  | 12.4043      | 14.8767 | 23.5427       |
| J1 each metre of stroke | kgmm <sup>2</sup> /m  | 12.2592 | 17.8468 | 35.2305 | 38.5264 | 49.1936 | 86.2990      | 96.6652 | 116.3671      |
| J2 each kg of load      | kgmm <sup>2</sup> /kg | 0.4053  | 3.6476  | 0.6333  | 2.5332  | 6.4849  | 0.6333       | 2.5332  | 10.1327       |
| J3 in-line transmission | kgmm <sup>2</sup>     | 5.2     |         | 5.2     |         |         | 36.2         |         |               |
| J3 geared transmission  | kgmm <sup>2</sup>     | 62      |         | 161.7   |         |         | 322.1        |         |               |

|                         |                       | Ø 80   |        |         | Ø 100  |        |         | Ø 100 HD |        |
|-------------------------|-----------------------|--------|--------|---------|--------|--------|---------|----------|--------|
| Screw pitch             | mm                    | 5      | 10     | 32      | 10     | 40     | 10      | 10       |        |
| Transmission ratio (τ)  |                       | 1:1    | 1:1.25 | 1:1.5   | 1:1    | 1:1.25 | 1:1.5   | 1:1      | 1:1.5  |
| J0 at stroke 0          | kgmm <sup>2</sup>     | 430    | 420.3  | 438.8   | 430    | 420.3  | 438.8   | 430      | 420.3  |
| J1 each metre of stroke | kgmm <sup>2</sup> /m  | 688    | 608    | 753     | 688    | 608    | 753     | 688      | 608    |
| J2 each kg of load      | kgmm <sup>2</sup> /kg | 0.6333 | 2.5330 | 25.9382 | 0.6333 | 2.5330 | 25.9382 | 0.6333   | 2.5330 |
| J3 in-line transmission | kgmm <sup>2</sup>     | 148.2  | -      | 148.2   | 148.2  | -      | 148.2   | 148.2    | -      |
| J3 geared transmission  | kgmm <sup>2</sup>     | 1773.4 | 523.6  | 1773.4  | 1773.4 | 523.6  | 1421.7  | 1773.4   | 1421.7 |

|                         |                       | Ø 100  |         |        | Ø 100 HD |         |        | Ø 100 HD |         |
|-------------------------|-----------------------|--------|---------|--------|----------|---------|--------|----------|---------|
| Screw pitch             | mm                    | 10     | 40      | 10     | 10       | 40      | 10     | 10       |         |
| Transmission ratio (τ)  |                       | 1:1    | 1:2     | 1:3 ●  | 1:1      | 1:2     | 1:3 ●  | 1:1      | 1:2     |
| J0 at stroke 0          | kgmm <sup>2</sup>     | 1357   | 1042.4  | 1357   | 1357     | 1042.4  | 1357   | 1357     | 1042.4  |
| J1 each metre of stroke | kgmm <sup>2</sup> /m  | 3984   | 1869.3  | 3984   | 3984     | 1869.3  | 3984   | 3984     | 1869.3  |
| J2 each kg of load      | kgmm <sup>2</sup> /kg | 2.5330 | 40.5284 | 2.5330 | 2.5330   | 40.5284 | 2.5330 | 2.5330   | 40.5284 |
| J3 in-line transmission | kgmm <sup>2</sup>     | 327.8  | -       | 327.8  | 327.8    | -       | 327.8  | 327.8    | -       |
| J3 geared transmission  | kgmm <sup>2</sup>     | 1773.4 | 1491.2  | -      | 1773.4   | 1491.2  | -      | 1773.4   | 1491.2  |

● with planetary gearbox

The total mass moment of inertia (J<sub>tot</sub>) reduced for the motor is: J<sub>tot</sub> = [J1 · Stroke [m] + J2 · (Load [kg] + Mx [kg]) + J0] · τ<sup>2</sup> + J3

Mx is defined in the weight table.

## CALCULATION OF MEAN AXIAL LOAD $F_m$ AND VERIFICATION

Peak axial load in a work cycle must not exceed the static axial load  $F_o$ . The peak value is usually achieved during upward acceleration in vertical installation. Exceeding this value leads to greater wear and hence shorter life of the recirculating ball screw.

Mean axial load  $F_m$

$$F_m = \sqrt[3]{\sum F_x^3 \times \frac{V_x}{V_m} \times \frac{q}{100}} =$$

$$F_m = \sqrt[3]{F_{x1}^3 \times \frac{V_{x1}}{V_m} \times \frac{q_1}{100} + F_{x2}^3 \times \frac{V_{x2}}{V_m} \times \frac{q_2}{100} + F_{x3}^3 \times \frac{V_{x3}}{V_m} \times \frac{q_3}{100} + \dots}$$

$F_x$  = Axial load at stage x

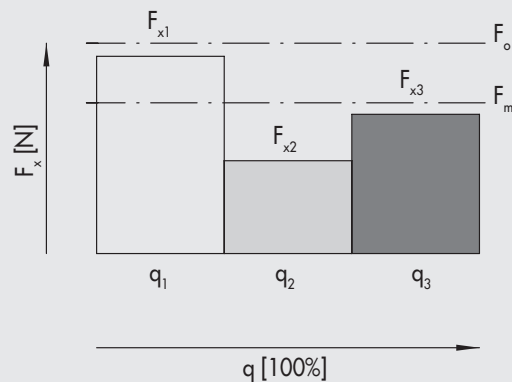
$F_m$  = Mean axial load during extension

$F_o$  = Static axial load

q = Time segment

$V_x$  = Speed in the phase x

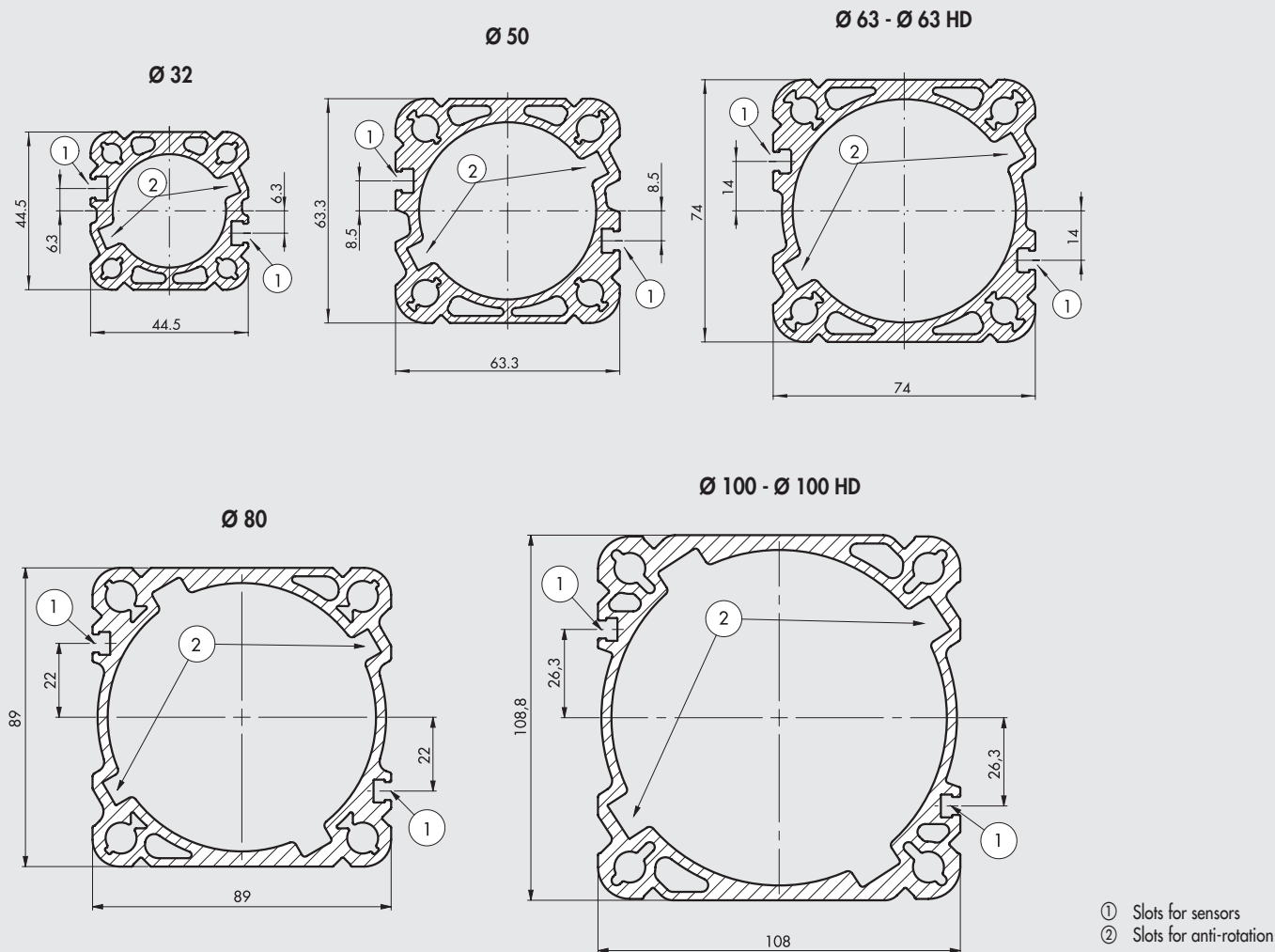
$V_m$  = Average speed



The mean axial load must not exceed the dynamic axial load:  $F_m \leq F$

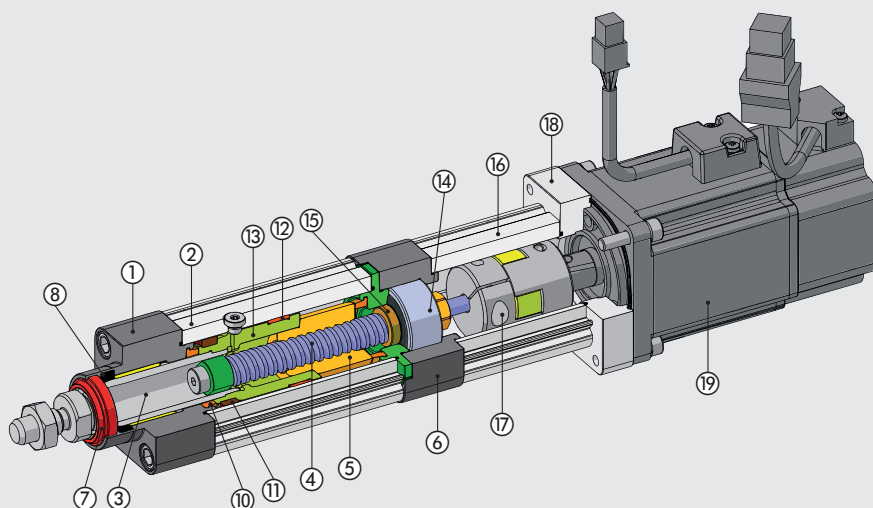
The graphs on page A5.10 show screw life as a function of  $F_m$

## BARREL CROSS SECTION

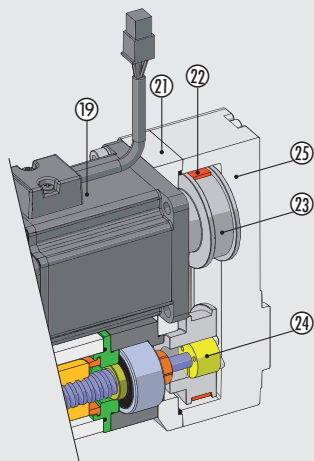


## COMPONENTS

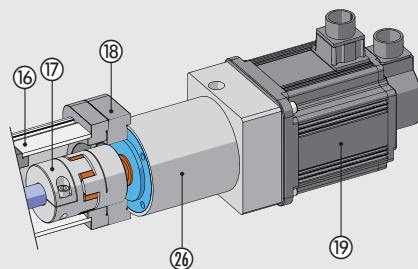
## IN-LINE VERSION WITH MOTOR



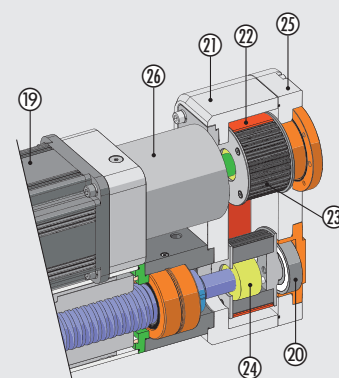
## GEARED VERSION WITH MOTOR



## IN-LINE VERSION WITH MOTOR AND GEARBOX



## GEARED VERSION WITH MOTOR AND GEARBOX

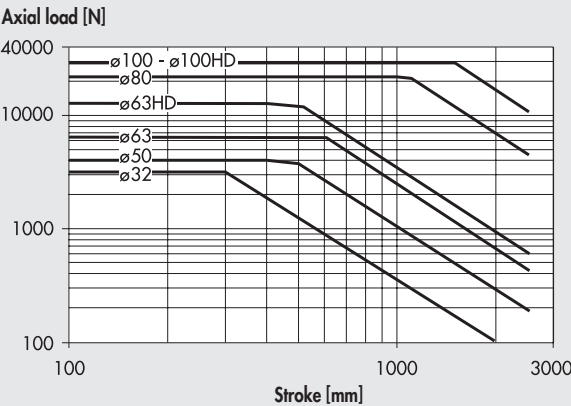


- ① FRONT CYLINDER HEAD: anodized aluminium
- ② BARREL: extruded and anodized aluminium alloy
- ③ PISTON ROD: grinded chromed steel
- ④ WORM SCREW: hardened steel
- ⑤ BALL SCREW NUT: steel
- ⑥ REAR CYLINDER HEAD: anodized aluminium
- ⑦ WIPER RING: polyurethane
- ⑧ PISTON ROD GASKET: NBR (IP55/ IP65 version only)
- ⑨ GUIDE BUSHING: steel strip with bronze and PTFE insert
- ⑩ BUFFER: technopolymer
- ⑪ MAGNET: plastoferrite
- ⑫ GUIDE STRIP: self-lubricated calibrated technopolymer
- ⑬ PISTON: aluminium
- ⑭ BEARING: oblique with two ball rings / with tapered rollers (only for Ø 100 HD)

- ⑮ BEARING LOCKING RING: anodized aluminium
- ⑯ BELL: extruded and anodized aluminium alloy
- ⑰ COUPLING
- ⑱ ADAPTOR PLATE: anodized aluminium
- ⑲ ELECTRIC MOTOR
- ⑳ PULLEY SUPPORT BEARING
- ㉑ TRANSMISSION PLATE: anodized aluminium
- ㉒ DRIVE BELT
- ㉓ PULLEY: steel
- ㉔ SHRINK DISC
- ㉕ COVER: anodized aluminium
- ㉖ PLANETARY GEARBOX

PEAK LOADS

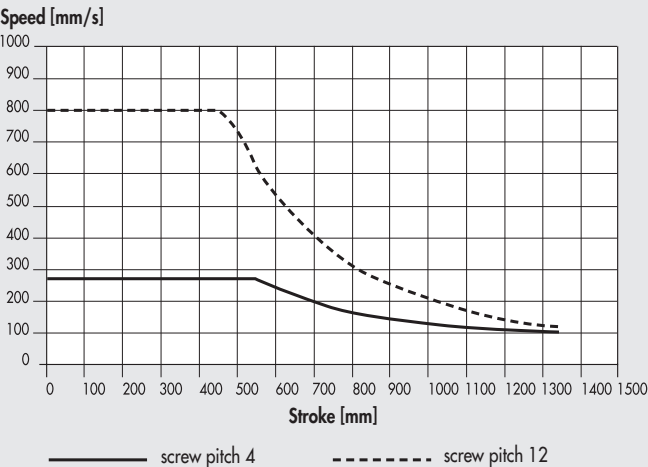
The following load conditions applied to the piston rod must be met.



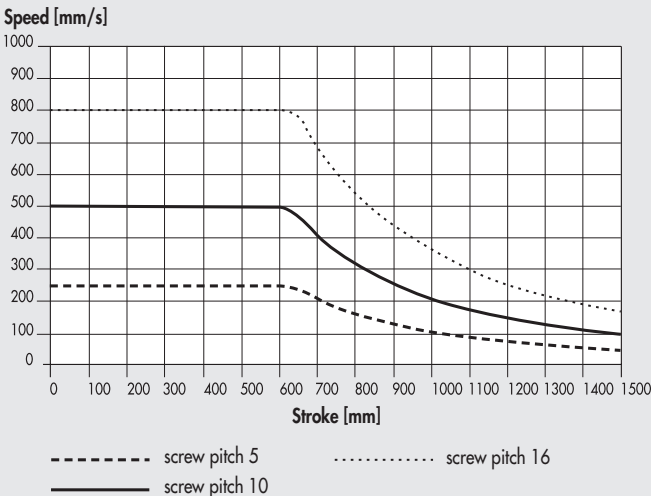
CRITICAL VELOCITY

The two variables (stroke and linear speed) must meet the conditions in the graph below, otherwise resonance could be generated and affect the system.

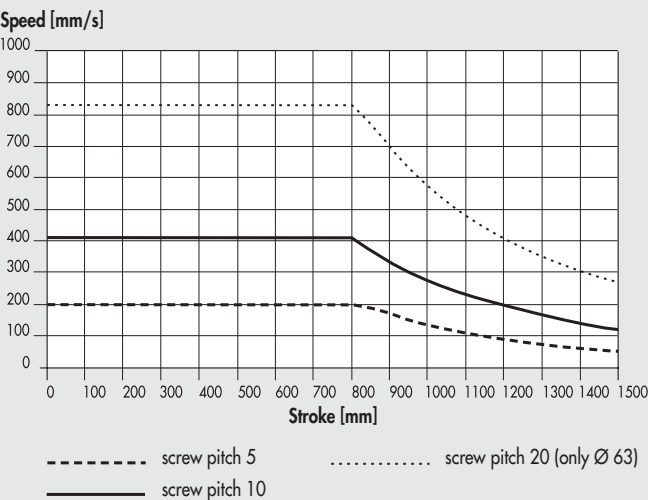
Ø 32



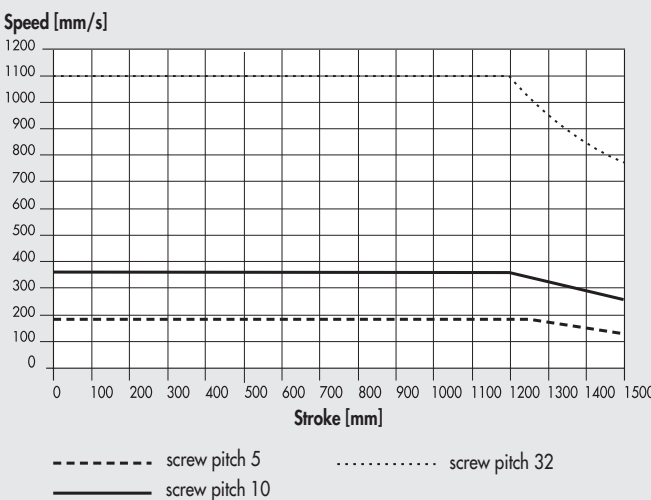
Ø 50



Ø 63 - Ø 63 HD

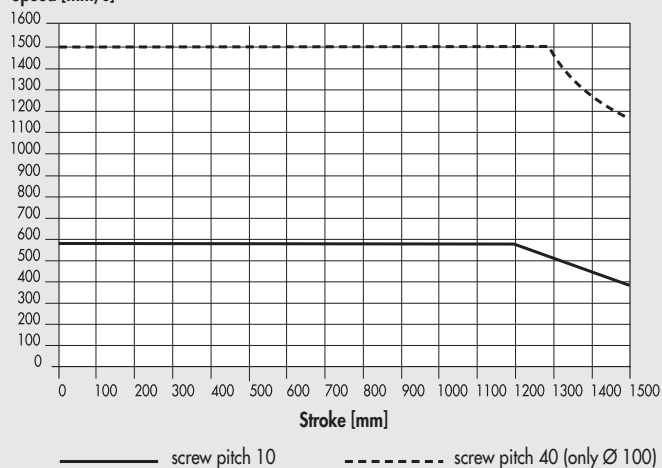


Ø 80



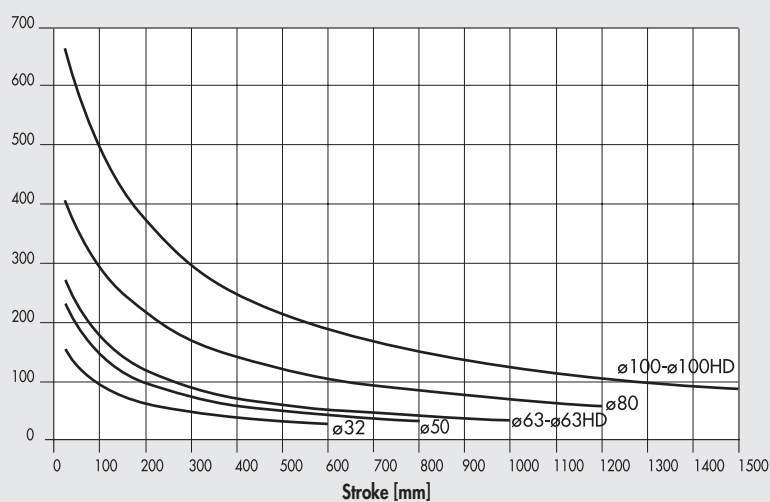
## Ø 100 - Ø 100 HD

Speed [mm/s]



## MAXIMUM RADIAL LOADS ON PISTON ROD

Radial loads [N]



Radial loads can be applied to the piston rod. They must not exceed the values in the adjacent chart, otherwise the guides on the rod and piston will be subjected to excessive wear.

## PISTON ROD SPEED DEPENDING ON THE NUMBER OF SCREW TURNS

| SCREW PITCH | TRANSMISSION RATIO | K (n/V) |
|-------------|--------------------|---------|
| 4           | 1:1                | 15      |
| 5           | 1:1                | 12      |
|             | 1:1.25             | 15      |
| 10          | 1:1                | 6       |
|             | 1:1.25             | 7.5     |
|             | 1:1.5              | 9       |
|             | 1:2                | 12      |
|             | 1:3                | 18      |
| 12          | 1:1                | 5       |
| 16          | 1:1                | 3.75    |
| 20          | 1:1                | 3       |
| 32          | 1:1                | 1.87    |
|             | 1:1.5              | 2.81    |
| 40          | 1:1                | 1.5     |
|             | 1:2                | 3       |
|             | 1:3                | 4.5     |

The table shows the direct correspondence between the number of turns (1/min) and the translation speed of the stem (mm/s). In any case all the other conditions and limitations of each specific cylinder will have to be complied.

**Example:**

V = 100 mm/s

pitch = 10

transmission ratio = 1:1.5

K = 9

n = V x K = 900 rpm

DRIVE TORQUE AS A FUNCTION OF THE AXIAL LOAD APPLIED TO THE PISTON ROD

| SCREW PITCH | TRANSMISSION RATIO | h (C/F) |
|-------------|--------------------|---------|
| 4           | 1:1                | 0.0008  |
|             | 1:1                | 0.0010  |
| 5           | 1:1.25             | 0.0008  |
|             | 1:1                | 0.0020  |
| 10          | 1:1.25             | 0.0016  |
|             | 1:1.5              | 0.0013  |
|             | 1:2                | 0.0010  |
|             | 1:3                | 0.0007  |
|             | 1:1                | 0.0024  |
| 12          | 1:1                | 0.0032  |
| 16          | 1:1                | 0.0040  |
| 32          | 1:1                | 0.0064  |
|             | 1:1.5              | 0.0043  |
| 40          | 1:1                | 0.0080  |
|             | 1:2                | 0.0040  |
|             | 1:3                | 0.0027  |

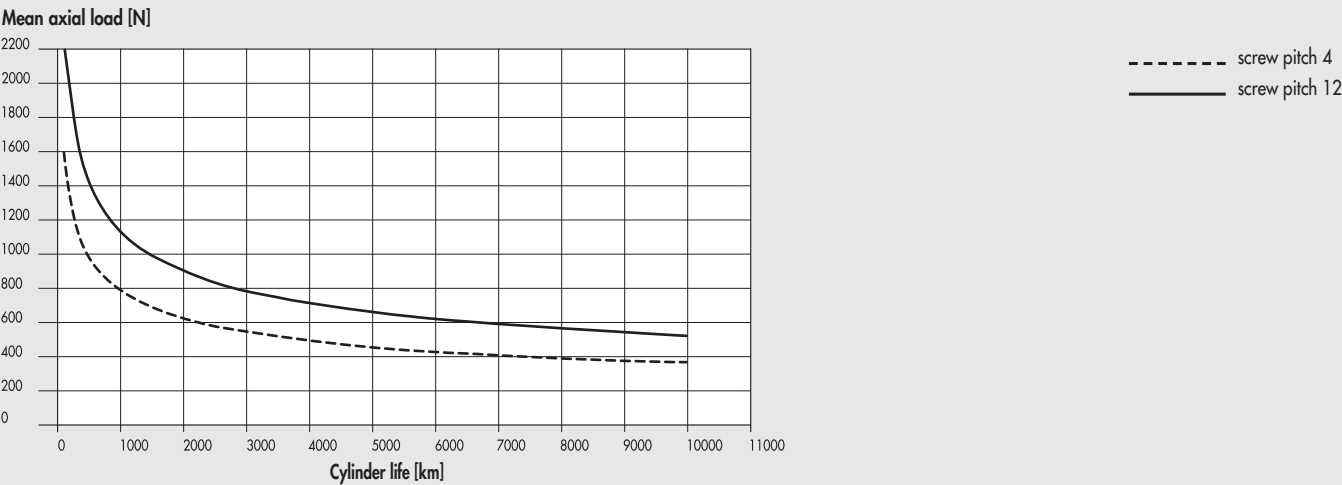
The friction generated in the mechanical system is taken into account.

**Example:**  
F = 1000 N  
pitch = 10  
transmission ratio = 1:1.5  
h = 0.0013  
C = F x h = 1.3 Nm

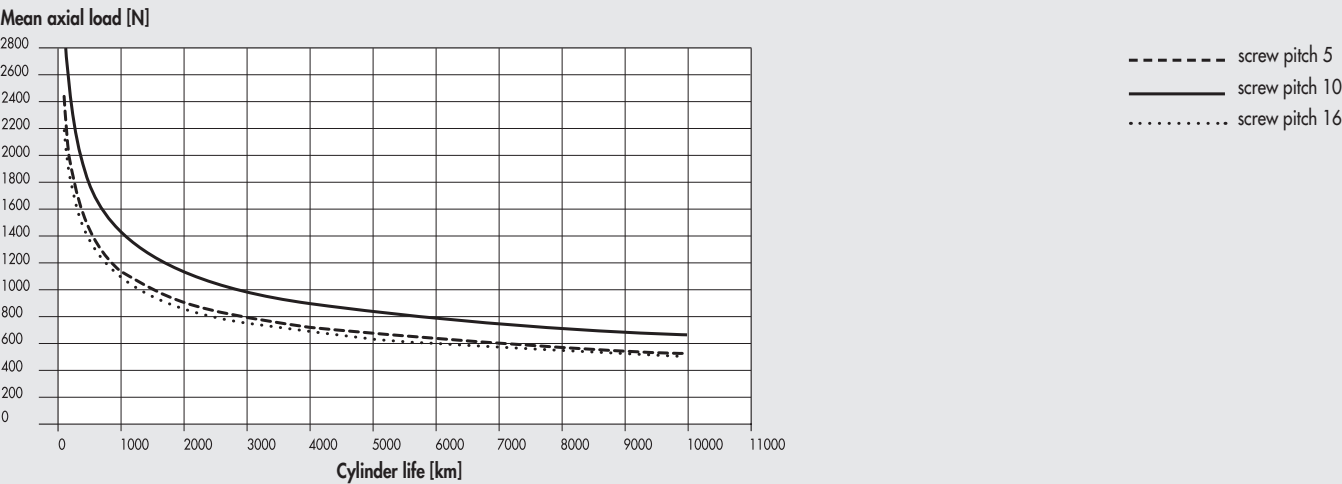
LIFE CHARACTERISTICS AS A FUNCTION OF THE MEAN AXIAL LOAD

Life characteristics can vary considerably from those indicated in the graphs due to different operating conditions (radial loads, temperature, lubrication status, etc.).

Ø 32

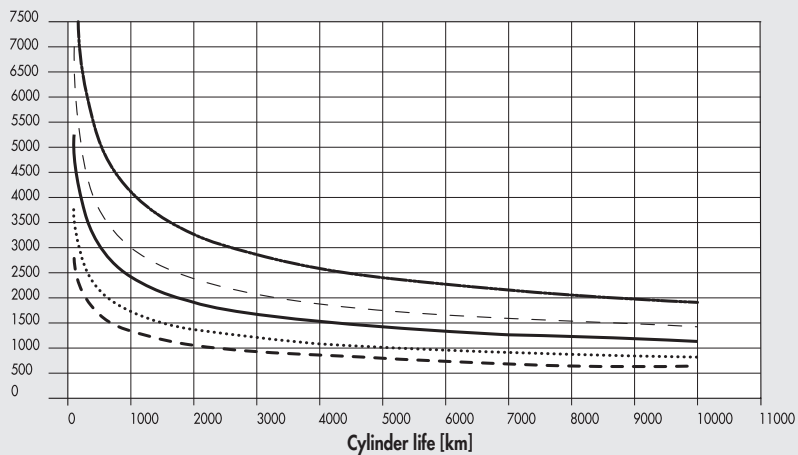


Ø 50



**Ø 63 - Ø 63 HD**

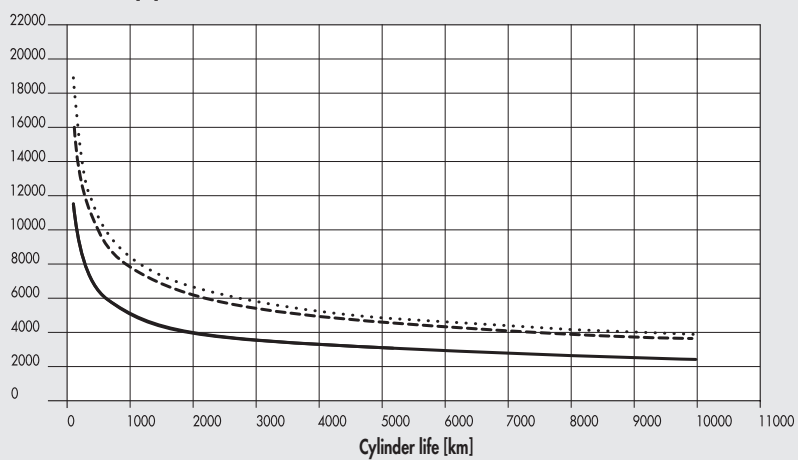
Mean axial load [N]



..... screw pitch 5  
 — screw pitch 10  
 - - - screw pitch 20  
 - - - screw pitch 5 HD  
 ..... screw pitch 10 HD

**Ø 80**

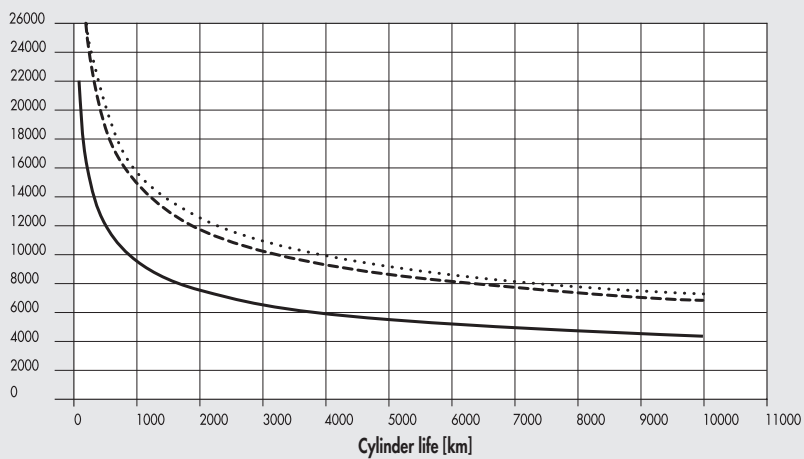
Mean axial load [N]



— screw pitch 5  
 - - - screw pitch 10  
 ..... screw pitch 32

**Ø 100 - Ø 100 HD**

Mean axial load [N]

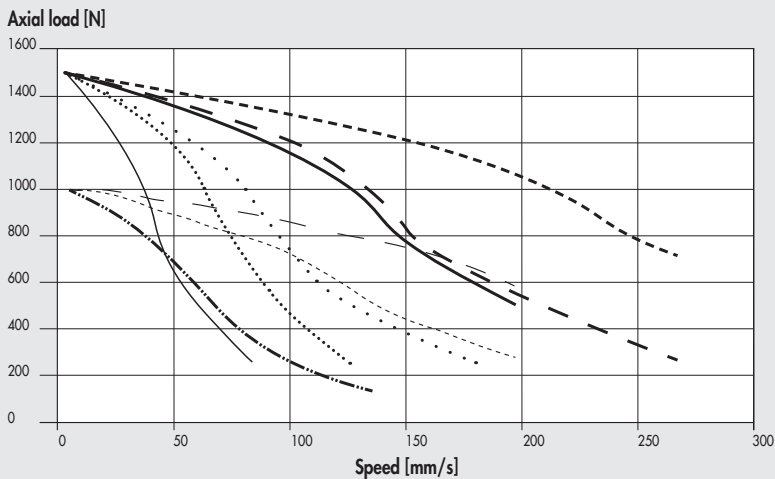


— screw pitch 10  
 - - - screw pitch 40  
 ..... screw pitch 10 HD

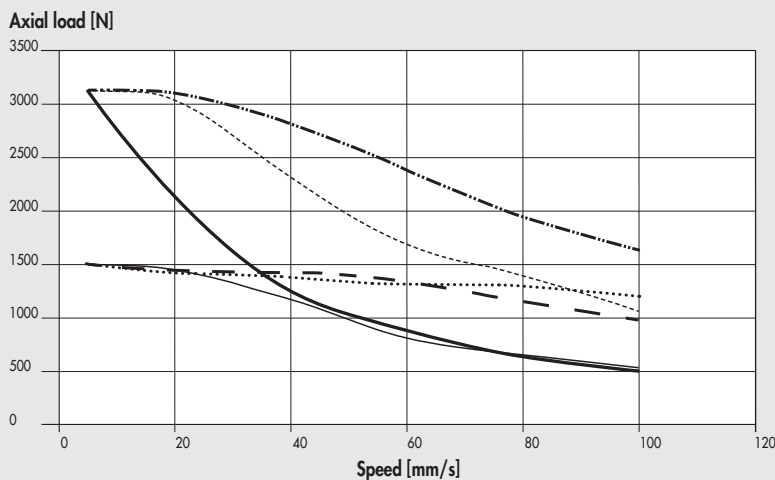
## AXIAL LOAD CURVES AS A FUNCTION OF SPEED (CYLINDER COMPELTE WITH MOTOR AND DRIVE)

N.B.: The obtainable load values already take the efficiency of the system into account. For STEPPING motors, with the motor off, the drive current is automatically reduced by 50% to prevent overheating. Consequently, available axial load with the motor stopped is also reduced by 50%.

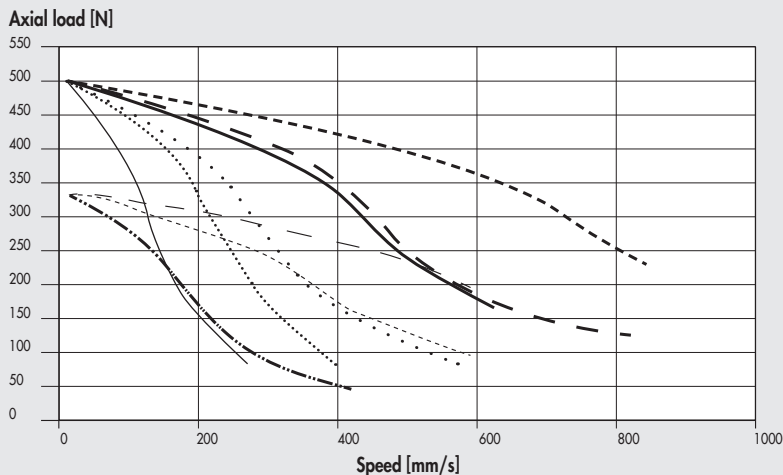
### Ø 32 with pitch 4 screw, STEPPING motors and motor 1 STEPPING with BRAKE



### Ø 32 with pitch 4 screw, STEPPING motors with BRAKE + ENCODER

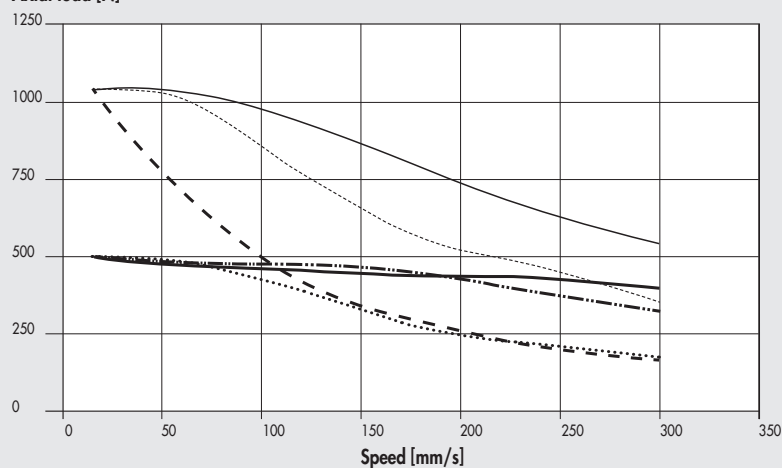


### Ø 32 with pitch 12 screw, STEPPING motors and motor 1 STEPPING with BRAKE



### Ø 32 with pitch 12 screw, STEPPING motors with BRAKE + ENCODER

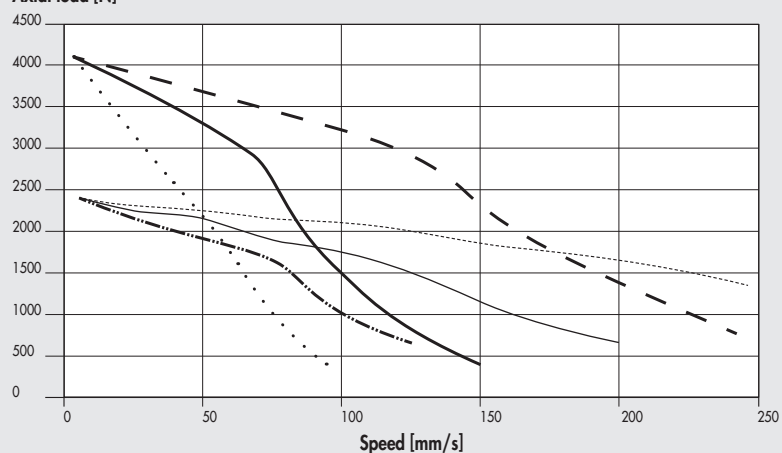
Axial load [N]



..... 37M3220000 (24VDC)  
 - - - - - 37M3220000 (48VDC)  
 ——— 37M3220000 (75VDC)  
 - - - - - 37M3230000 (24VDC)  
 ..... 37M3230000 (48VDC)  
 ——— 37M3230000 (75VDC)

### Ø 50 with pitch 5 screw, STEPPING motors

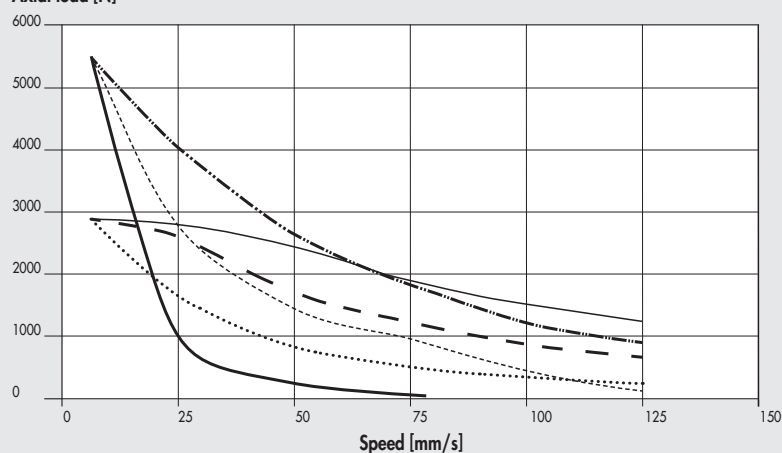
Axial load [N]



- - - - - 37M1430000 (48VDC)  
 ——— 37M1430000 (75VDC)  
 ..... 37M1430000 (140VDC)  
 ..... 37M1440000 (48VDC)  
 ——— 37M1440000 (75VDC)  
 - - - - - 37M1440000 (140VDC)

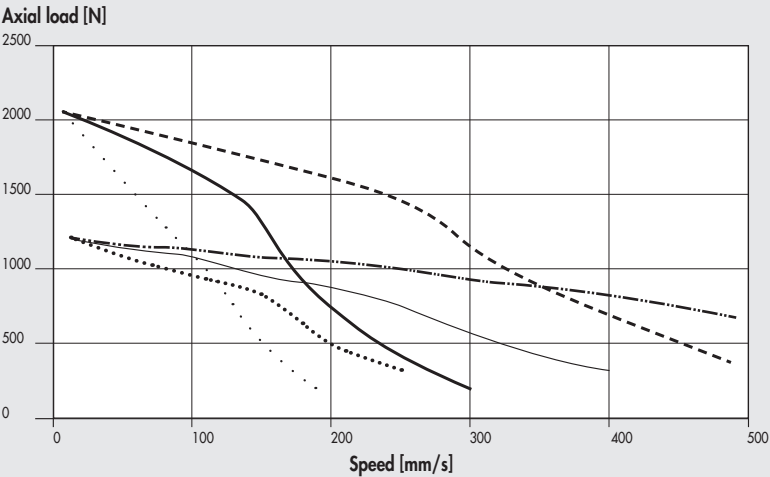
### Ø 50 with pitch 5 screw, STEPPING motors with BRAKE + ENCODER

Axial load [N]



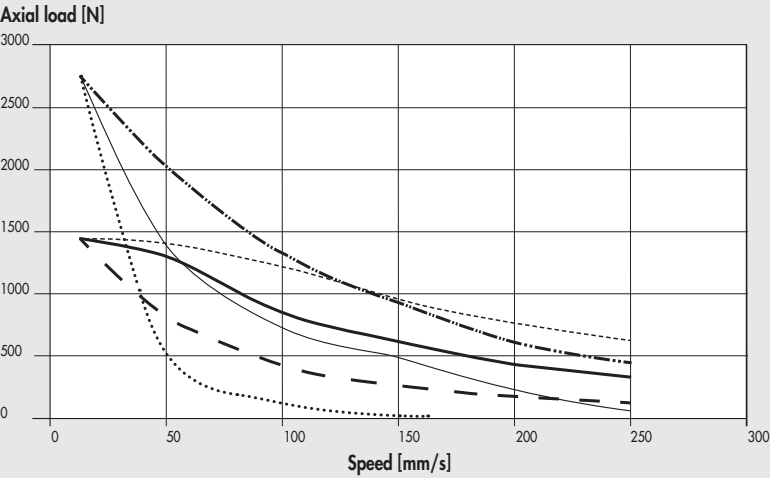
..... 37M3430000 (24VDC)  
 - - - - - 37M3430000 (48VDC)  
 ——— 37M3430000 (75VDC)  
 ..... 37M3460000 (24VDC)  
 - - - - - 37M3460000 (48VDC)  
 ..... 37M3460000 (75VDC)

Ø 50 with pitch 10 screw, STEPPING motors



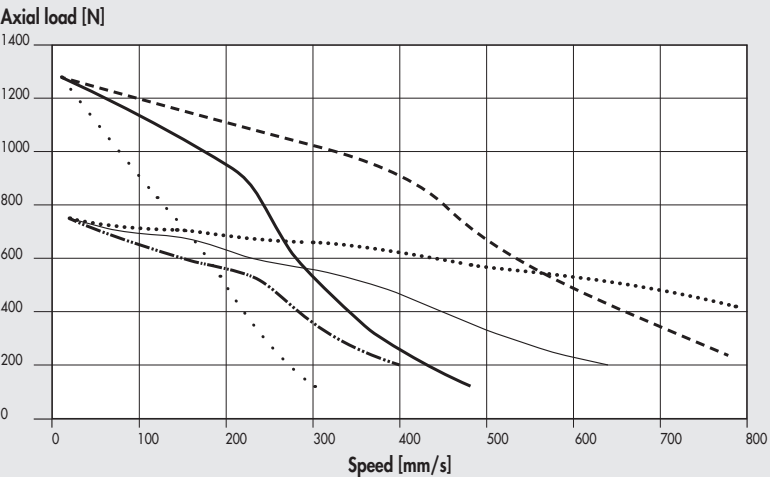
- 37M1430000 (48VDC)
- 37M1430000 (75VDC)
- 37M1430000 (140VDC)
- 37M1440000 (48VDC)
- 37M1440000 (75VDC)
- 37M1440000 (140VDC)

Ø 50 with pitch 10 screw, STEPPING motors with BRAKE + ENCODER



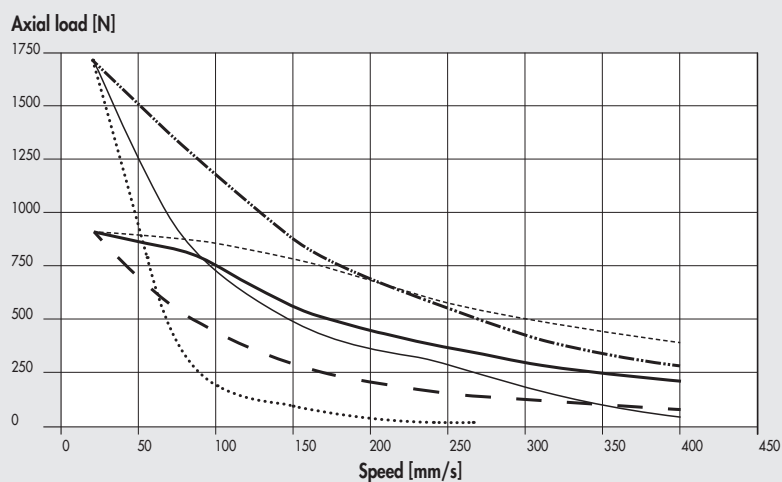
- 37M3430000 (24VDC)
- 37M3430000 (48VDC)
- 37M3430000 (75VDC)
- 37M3460000 (24VDC)
- 37M3460000 (48VDC)
- 37M3460000 (75VDC)

Ø 50 with pitch 16 screw, STEPPING motors

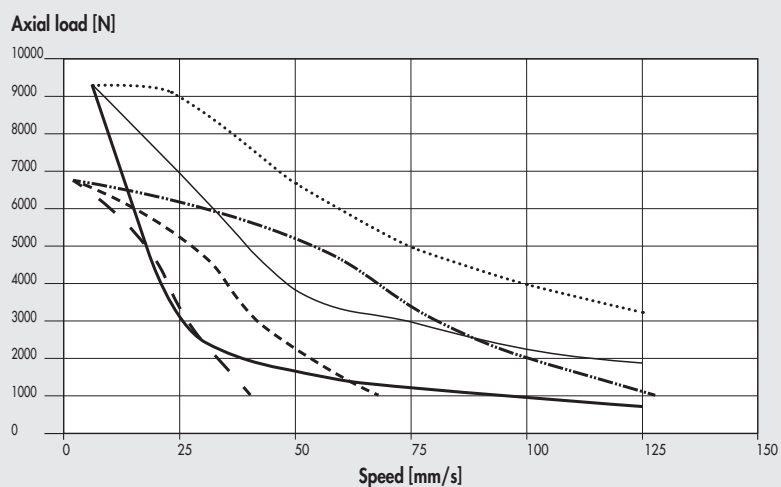


- 37M1430000 (48VDC)
- 37M1430000 (75VDC)
- 37M1430000 (140VDC)
- 37M1440000 (48VDC)
- 37M1440000 (75VDC)
- 37M1440000 (140VDC)

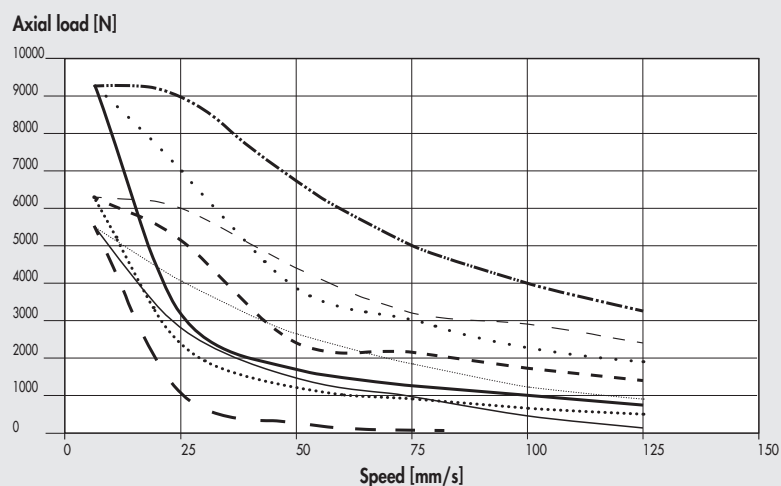
### Ø 50 with pitch 16 screw, STEPPING motors with BRAKE + ENCODER



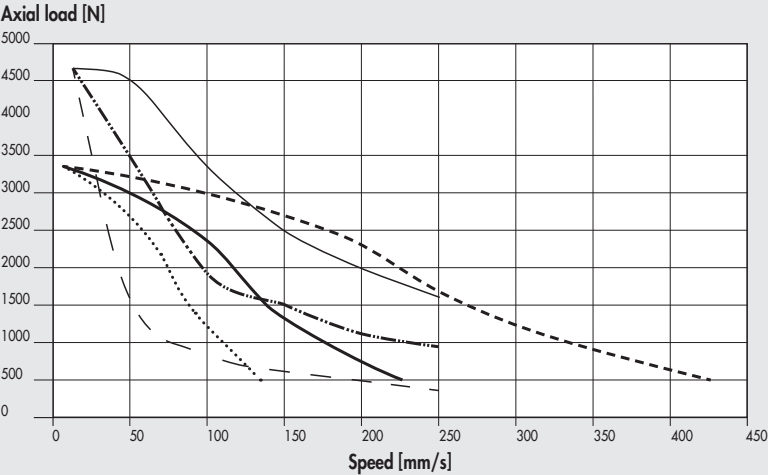
### Ø 63 with pitch 5 screw, STEPPING motors



### Ø 63 with pitch 5 screw, STEPPING motors with BRAKE + ENCODER

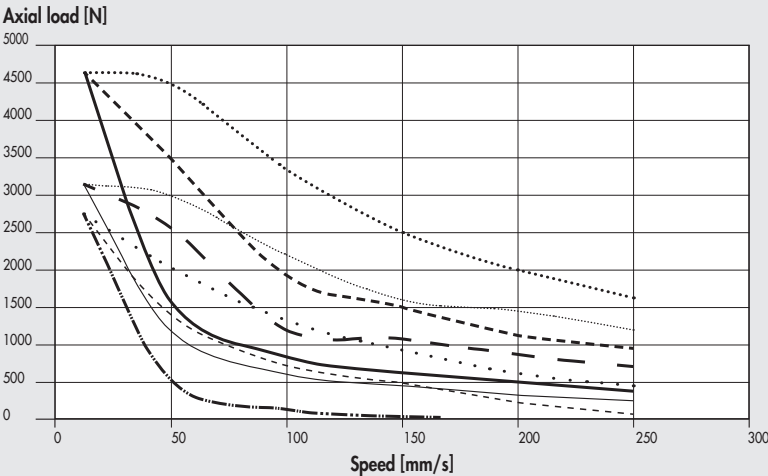


Ø 63 with pitch 10 screw, STEPPING motors



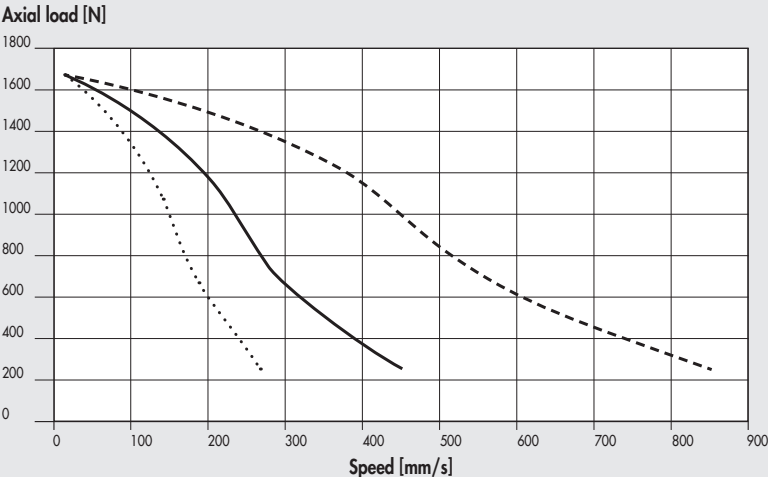
- ..... 37M1450000 (48VDC)
- 37M1450000 (75VDC)
- - - - 37M1450000 (140VDC)
- - - - 37M1470000 (24VDC)
- ..... 37M1470000 (48VDC)
- 37M1470000 (75VDC)

Ø 63 with pitch 10 screw, STEPPING motors with BRAKE + ENCODER



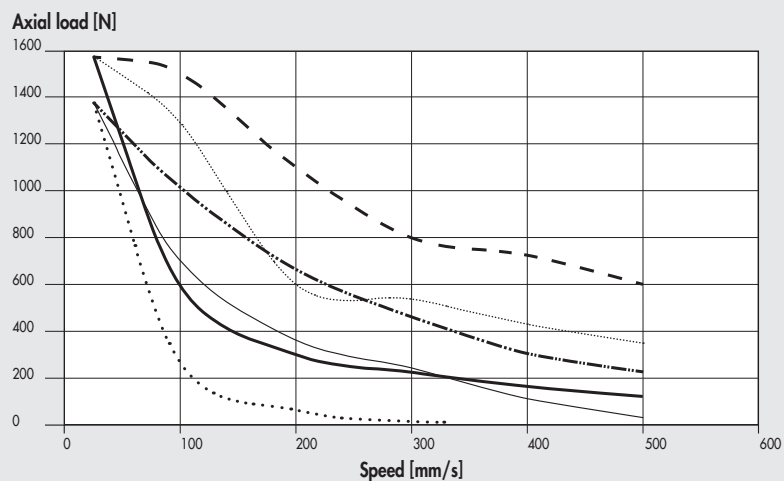
- 37M3450000 (24VDC)
- - - - 37M3450000 (48VDC)
- ..... 37M3450000 (75VDC)
- ..... 37M3460000 (24VDC)
- - - - 37M3460000 (48VDC)
- ..... 37M3460000 (75VDC)
- 37M3470000 (24VDC)
- - - - 37M3470000 (48VDC)
- ..... 37M3470000 (75VDC)

Ø 63 with pitch 20 screw, STEPPING motors

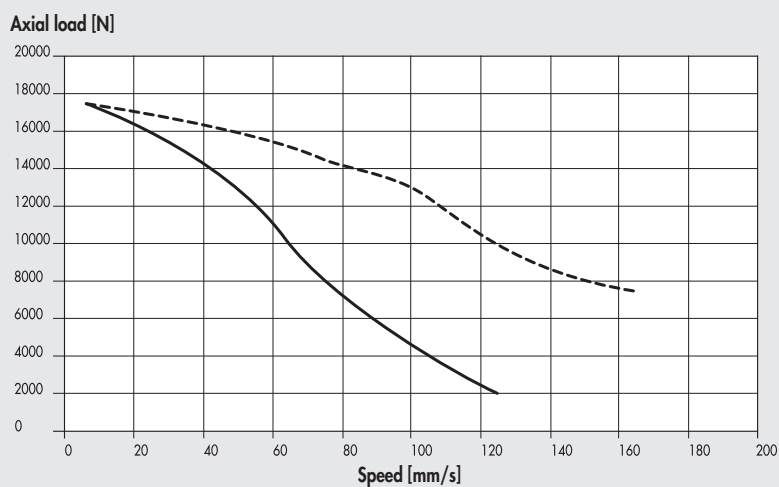


- ..... 37M1450000 (48VDC)
- 37M1450000 (75VDC)
- - - - 37M1450000 (140VDC)

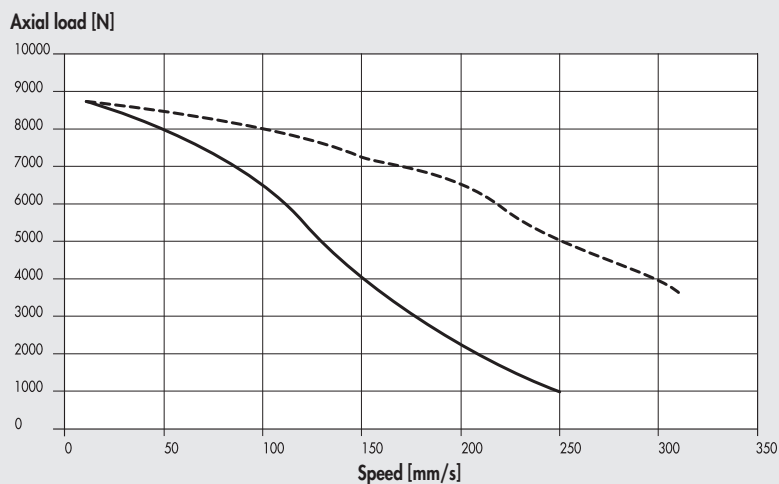
### Ø 63 with pitch 20 screw, STEPPING motors with BRAKE + ENCODER



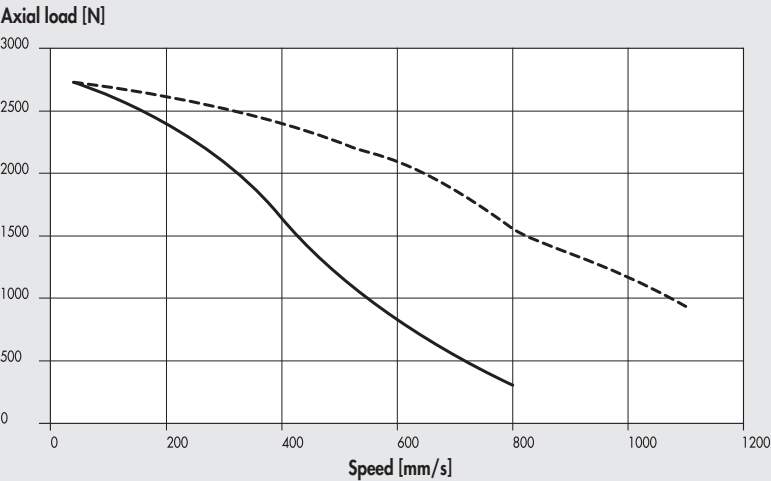
### Ø 80 with pitch 5 screw, STEPPING motors



### Ø 80 with pitch 10 screw, STEPPING motors

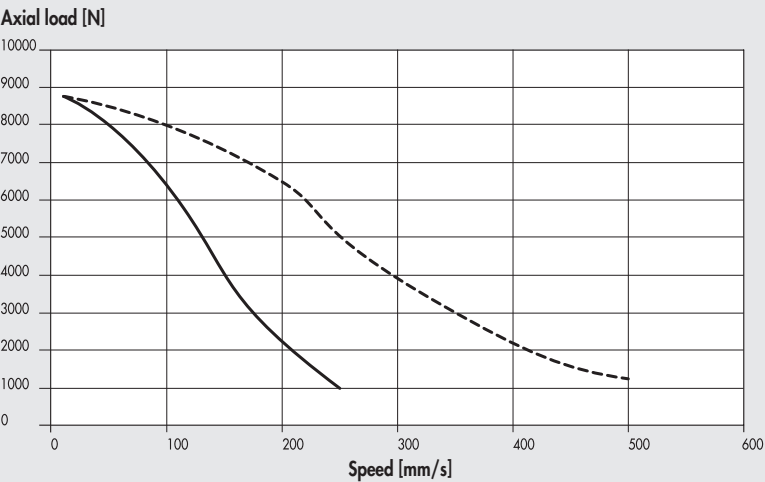


Ø 80 with pitch 32 screw, STEPPING motors



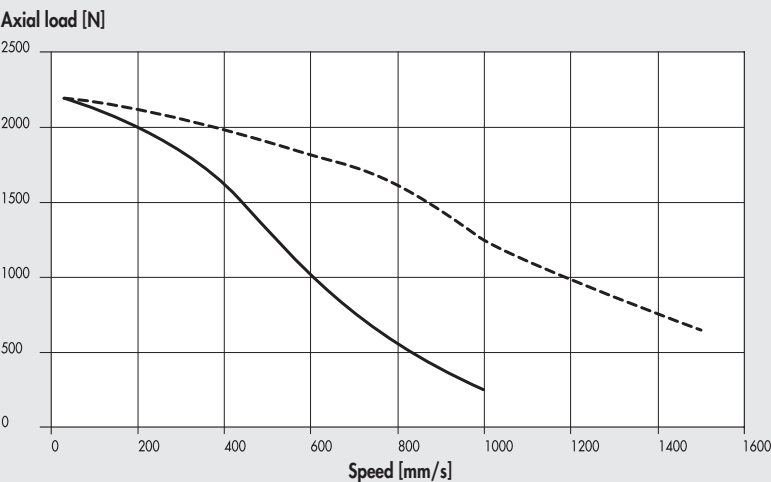
----- 37M1890000 + 37D1362001 (230VAC)  
————— 37M1890000 + 37D1362001 (115VAC)

Ø 100 with pitch 10 screw, STEPPING motors



----- 37M1890000 + 37D1362001 (230VAC)  
————— 37M1890000 + 37D1362001 (115VAC)

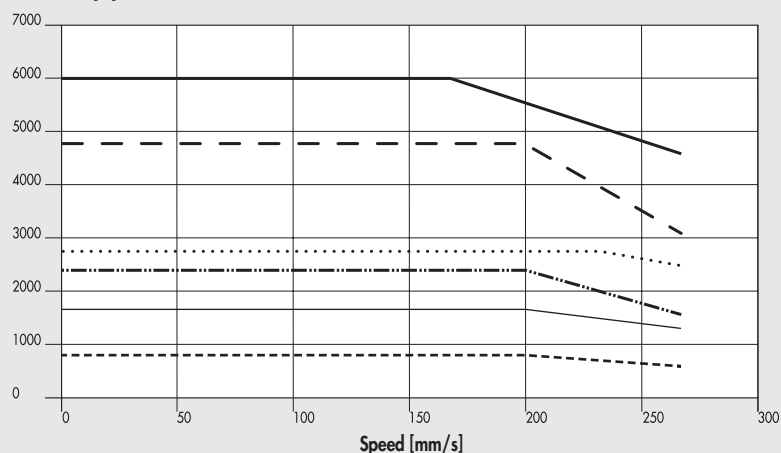
Ø 100 with pitch 40 screw, STEPPING motors



----- 37M1890000 + 37D1362001 (230VAC)  
————— 37M1890000 + 37D1362001 (115VAC)

### Ø 32 with pitch 4 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE

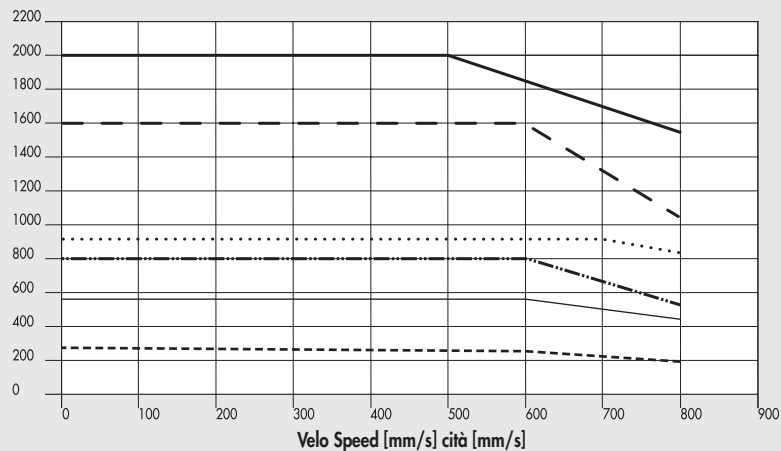
Axial load [N]



- Nominal 37M2200000/1 or 37M4200000/1 (with brake) + 37D2400008 / 37D2200001 (200W)
- Nominal 37M2220000/1 or 37M4220000/1 (with brake) + 37D2400008 / 37D2300001 (400W)
- ..... Maximum 37M2200001 or 37M4200001 (with brake) + 37D2200001 (200W)
- ..... Maximum 37M2200000 or 37M4200000 (with brake) + 37D2400008 (200W)
- Maximum 37M2220001 or 37M4220001 (with brake) + 37D2300001 (400W)
- Maximum 37M2220000 or 37M4220000 (with brake) + 37D2400008 (400W)

### Ø 32 with pitch 12 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE

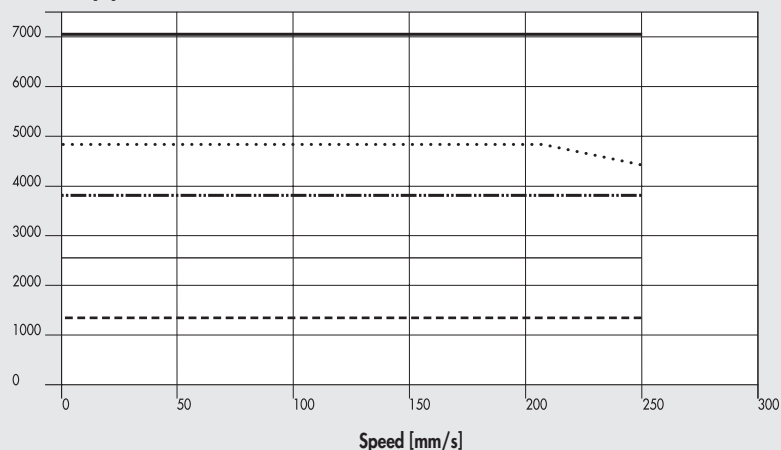
Axial load [N]



- Nominal 37M2200000/1 or 37M4200000/1 (with brake) + 37D2400008 / 37D2200001 (200W)
- Nominal 37M2220000/1 or 37M4220000/1 (with brake) + 37D2400008 / 37D2300001 (400W)
- ..... Maximum 37M2200001 or 37M4200001 (with brake) + 37D2200001 (200W)
- ..... Maximum 37M2200000 or 37M4200000 (con freno) + 37D2400008 (200W)
- Maximum 37M2220001 or 37M4220001 (with brake) + 37D2300001 (400W)
- Maximum 37M2220000 or 37M4220000 (with brake) + 37D2400008 (400W)

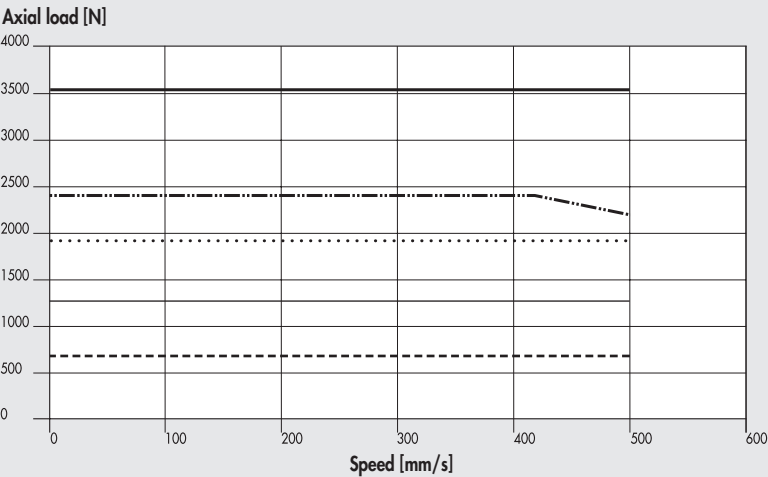
### Ø 50 with pitch 5 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE

Axial load [N]



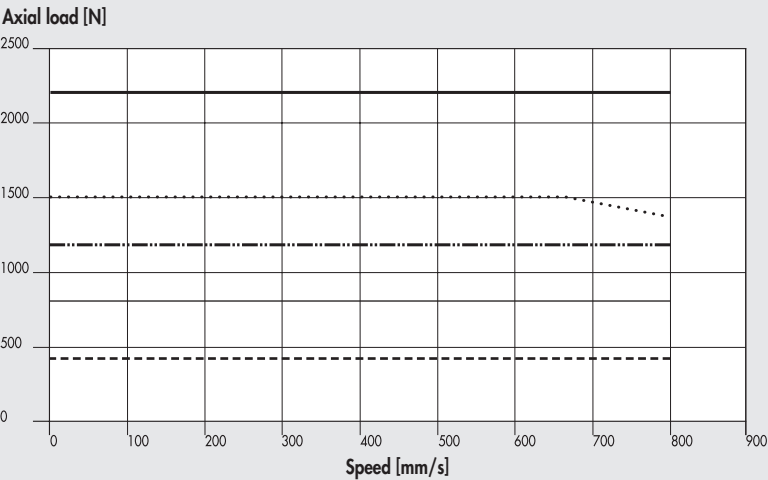
- Nominal 37M2220000/1 or 37M4220000/1 (with brake) + 37D2400008 / 37D2300001 (400W)
- Nominal 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008 / 37D2400007 (750W)
- ..... Maximum 37M2220001 or 37M4220001 (with brake) + 37D2300001 (400W)
- ..... Maximum 37M2220000 or 37M4220000 (with brake) + 37D2400008 (400W)
- Maximum 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008 / 37D2400007 (750W)

Ø 50 with pitch 10 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE



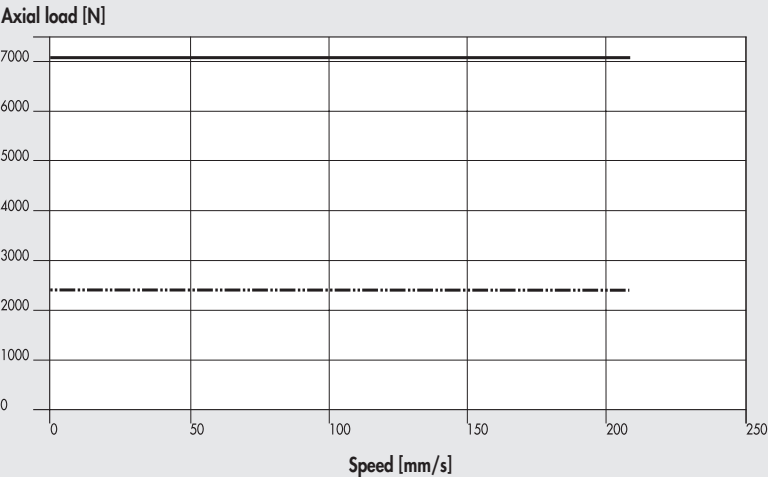
- Nominal 37M2220000/1 or 37M4220000/1 (with brake) + 37D2400008 / 37D2300001 (400W)
- Nominal 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008 / 37D2400007 (750W)
- ..... Maximum 37M2220001 or 37M4220001 (with brake) + 37D2300001 (400W)
- ..... Maximum 37M2220000 or 37M4220000 (with brake) + 37D2400008 (400W)
- Maximum 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008/37D2400007 (750W)

Ø 50 with pitch 16 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE



- Nominal 37M2220000/1 or 37M4220000/1 (with brake) + 37D2400008 / 37D2300001 (400W)
- Nominal 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008 / 37D2400007 (750W)
- ..... Maximum 37M2220001 or 37M4220001 (with brake) + 37D2300001 (400W)
- ..... Maximum 37M2220000 or 37M4220000 (with brake) + 37D2400008 (400W)
- Maximum 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008/37D2400007 (750W)

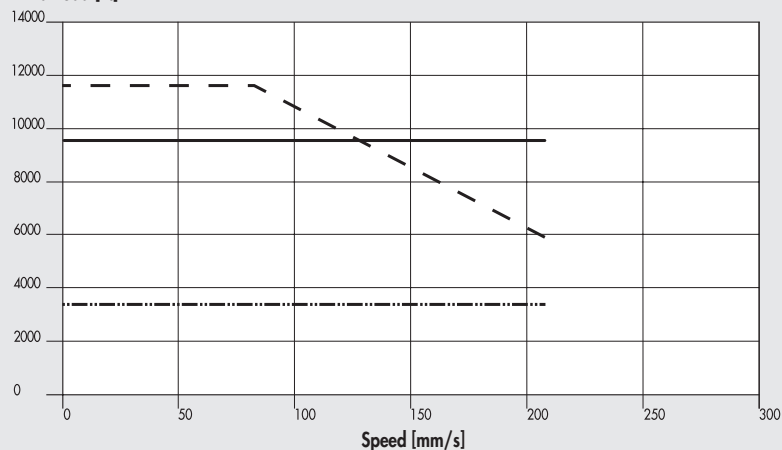
Ø 63 - Ø 63 HD with pitch 5 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (750 W)



- ..... Nominal 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008 / 37D2400007 (750W)
- Maximum 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008/37D2400007 (750W)

### Ø 63 HD with pitch 5 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (1000 W)

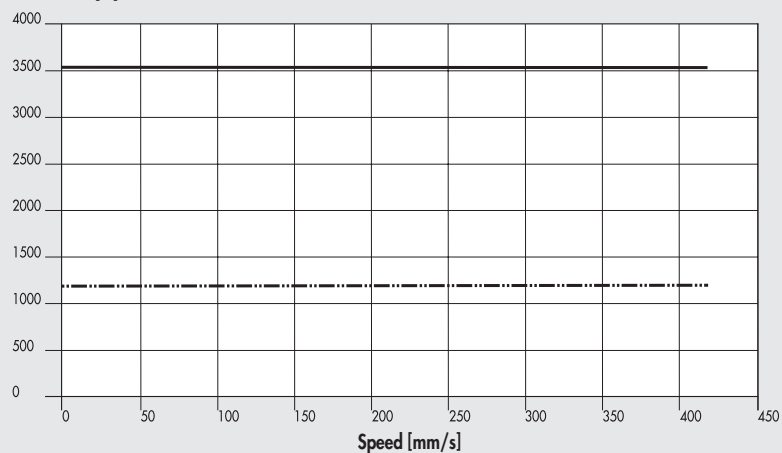
Axial load [N]



- ..... Nominal 37M2540000/37M2640000 or 37M4540000/37M4640000 (with brake) + 37D2400008/37D2400006 (1000W)
- Maximum 37M2640000 or 37M4640000 (with brake) + 37D2400006 (1000W)
- - - - Maximum 37M2540000 or 37M4540000 (with brake) + 37D2400008 (1000W)

### Ø 63 - Ø 63 HD with pitch 10 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (750 W)

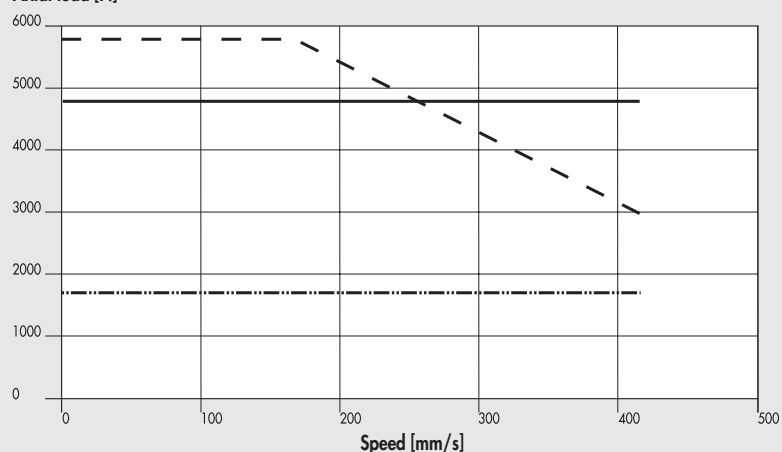
Axial load [N]



- ..... Nominal 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008 / 37D2400007 (750W)
- Maximum 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008/37D2400007 (750W)

### Ø 63 HD with pitch 10 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (1000 W)

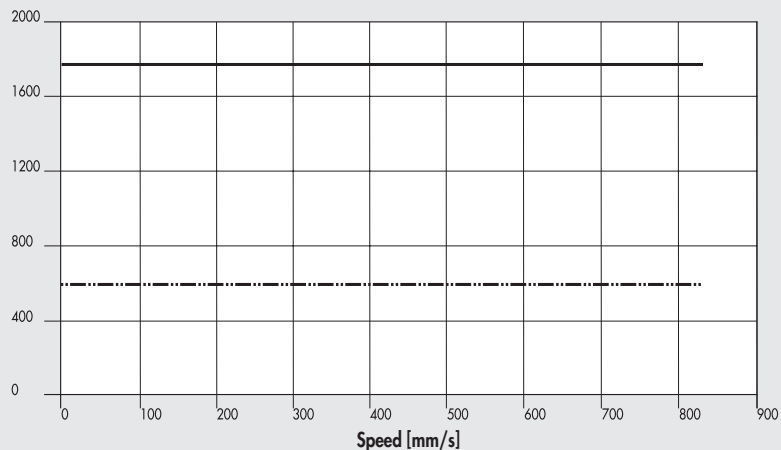
Axial load [N]



- ..... Nominal 37M2540000/37M2640000 or 37M4540000/37M4640000 (with brake) + 37D2400008/37D2400006 (1000W)
- Maximum 37M2640000 or 37M4640000 (with brake) + 37D2400006 (1000W)
- - - - Maximum 37M2540000 or 37M4540000 (with brake) + 37D2400008 (1000W)

### Ø 63 with pitch 20 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE

Axial load [N]

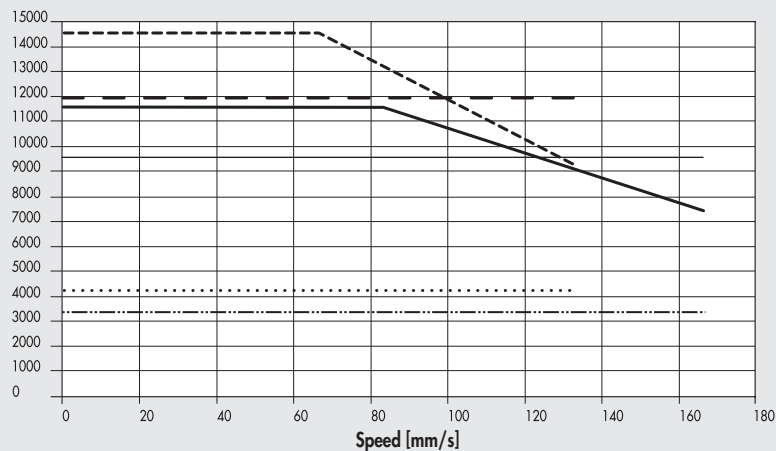


----- Nominal 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008 / 37D2400007 (750W)

———— Maximum 37M2330000/1 or 37M4330000/1 (with brake) + 37D2400008/37D2400007 (750W)

### Ø 80 with pitch 5 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (1000W)

Axial load [N]



----- Nominal 37M2540000/37M2640000 or 37M4540000/37M4640000 (with brake) + 37D2400008/37D2400006 (1000W) in-line version

..... Nominal 37M2540000/37M2640000 or 37M4540000/37M4640000 (with brake) + 37D2400008/37D2400006 (1000W) geared version (1:1.25)

———— Maximum 37M2640000 or 37M4640000 (with brake) + 37D2400006 (1000W) in-line version

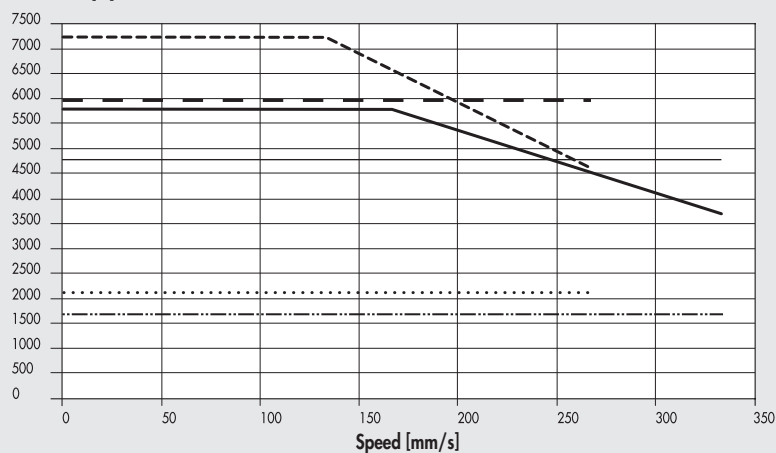
———— Maximum 37M2540000 or 37M4540000 (with brake) + 37D2400008 (1000W) in-line version

----- Maximum 37M2640000 or 37M4640000 (with brake) + 37D2400006 (1000W) geared version (1:1.25)

----- Maximum 37M2540000 or 37M4540000 (with brake) + 37D2400008 (1000W) geared version (1:1.25)

### Ø 80 with pitch 10 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (1000W)

Axial load [N]



----- Nominal 37M2540000/37M2640000 or 37M4540000/37M4640000 (with brake) + 37D2400008/37D2400006 (1000W) in-line version

..... Nominal 37M2540000/37M2640000 or 37M4540000/37M4640000 (with brake) + 37D2400008/37D2400006 (1000W) geared version (1:1.25)

———— Maximum 37M2640000 or 37M4640000 (with brake) + 37D2400006 (1000W) in-line version

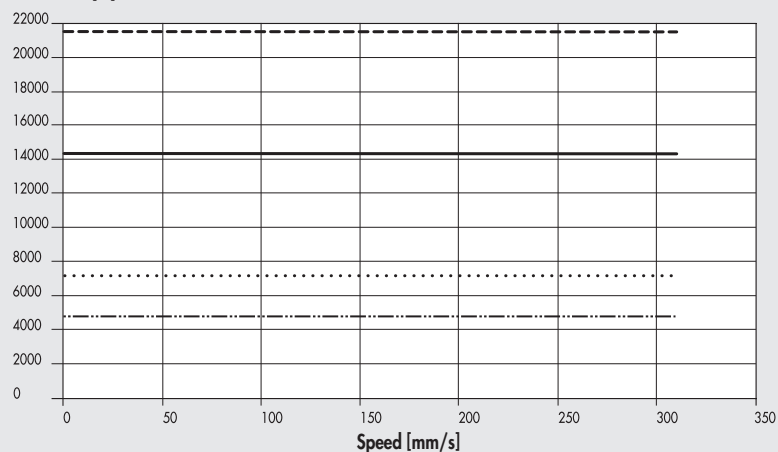
———— Maximum 37M2540000 or 37M4540000 (with brake) + 37D2400008 (1000W) in-line version

----- Maximum 37M2640000 or 37M4640000 (with brake) + 37D2400006 (1000W) geared version (1:1.25)

----- Maximum 37M2540000 or 37M4540000 (with brake) + 37D2400008 (1000W) geared version (1:1.25)

### Ø 80 with pitch 10 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (3000W)

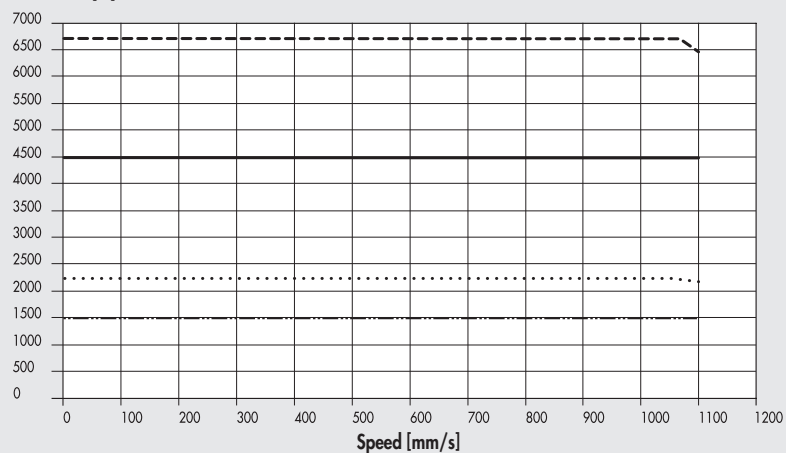
Axial load [N]



- Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version (1:1)
- ..... Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version (1:1)
- Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) geared version (1:1.5)
- ..... Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) geared version (1:1.5)

### Ø 80 with pitch 32 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (3000W)

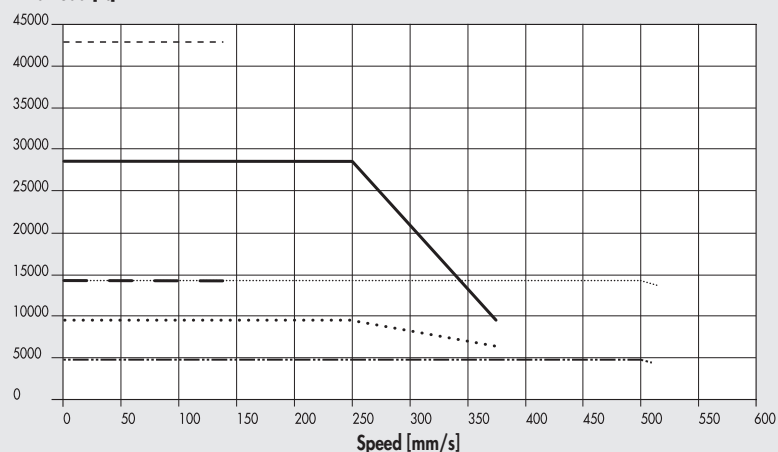
Axial load [N]



- Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version (1:1)
- ..... Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version (1:1)
- Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) geared version (1:1.5)
- ..... Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) geared version (1:1.5)

### Ø 100 - Ø 100 HD with pitch 10 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (3000W)

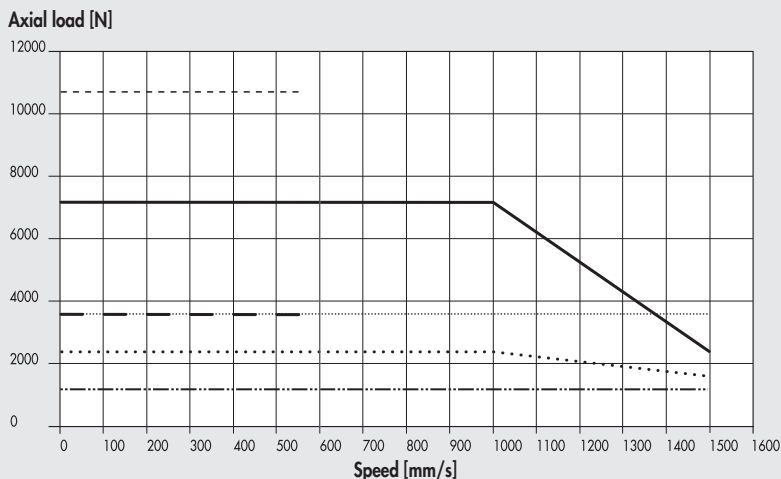
Axial load [N]



- Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version with gearbox (1:3)\*
- Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version with gearbox (1:3)\*
- Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) geared version (1:2)
- ..... Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) geared version (1:2)
- ..... Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version (1:1)
- ..... Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version (1:1)

\* For the Ø 100 HD, the postponed version with reducer is also available.

# Ø 100 with pitch 40 screw, BRUSHLESS motors and BRUSHLESS motors with BRAKE (3000W)

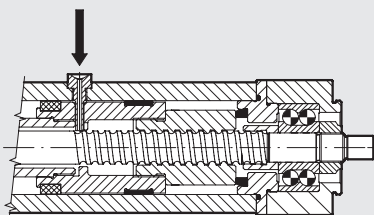


- Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version with gearbox (1:3)
- - - - - Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version with gearbox (1:3)
- Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) geared version (1:2)
- ..... Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) geared version (1:2)
- ..... Maximum 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version (1:1)
- ..... Nominal 37M2770000 or 37M4770000 (with brake) + 37D2600001 (3000W) in-line version (1:1)

## LUBRICATION DIAGRAMS

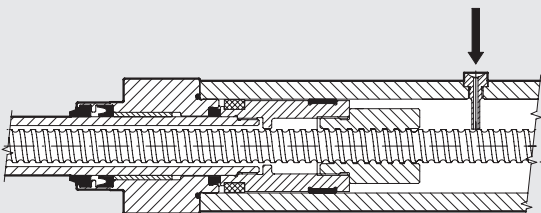
Our electric rod cylinders are pre-greased with permanent grease. It is, however, possible to maintain them by re-lubricating, but before this operation we recommend periodic maintenance, at least once a year, which includes checks of: functionality, noise, wears and plays, if possible motor absorption (to be compared with the previous ones), and only after adding, in case, grease according to the instructions in the manual: a continuous addition of grease, since it is not disposable, could be worse. The quantities in the manual are valid for strokes up to approximately 500 mm. Between 500 mm and 1000 mm double the quantity. Between 1000 mm and 1500 mm triple the quantity.

### LUBRICATION OF VERSION WITH NON-ROTATING PISTON ROD



- Retract the piston rod towards the rear head. The piston rod/piston/ball screw system must rest against the buffer of the rear head.
- Unscrew the cap on the lubricator port (see note 1 in the drawing on next page).
- Screw the lubricating pin (see accessory on page A5.39) into the thread. Make sure you enter the corresponding hole in the piston below.
- Pump grease (code 9910506) using the suitable lubricator according to the quantity in table.
- Unscrew the lubricating pin and make the piston rod perform four complete strokes. The piston rod should end up in the initial (retracted) position.
- Repeat the last two operations.

### LUBRICATION OF VERSION WITHOUT NON-ROTATING PISTON ROD

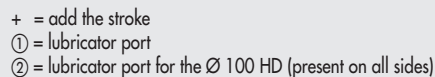


- Extend the piston rod completely. The piston rod/piston/ball screw system must rest against the buffer of the front head.
- Unscrew the cap on the lubricator port (see note 1 in the drawing on next page).
- Screw the lubricating pin (see accessory on page A5.39) into the thread. Make sure you enter the corresponding hole in the piston below.
- Pump grease (code 9910506) using the suitable lubricator according to the quantity in table.
- Unscrew the lubricating pin and make the piston rod perform four complete strokes. The piston rod should end up in the initial (extended) position.
- Repeat the last two operations.

|                        |    | Ø 32 |      | Ø 50 |      |      | Ø 63 |      |      | Ø 63 HD |      | Ø 80 |      |      | Ø 100 |       | Ø 100 HD |
|------------------------|----|------|------|------|------|------|------|------|------|---------|------|------|------|------|-------|-------|----------|
| Screw pitch (p)        | mm | 4    | 12   | 5    | 10   | 16   | 5    | 10   | 20   | 5       | 10   | 5    | 10   | 32   | 10    | 40    | 10       |
| Relube grease quantity | g  | 0.3  | 0.6  | 0.9  | 1.5  | 2.1  | 1.5  | 1.8  | 3    | 1.5     | 1.8  | 2.1  | 3.3  | 4.8  | 7.2   | 12.9  | 7.2      |
|                        | cc | 0.26 | 0.52 | 0.77 | 1.30 | 1.81 | 1.30 | 1.55 | 2.60 | 1.30    | 1.55 | 1.81 | 2.84 | 4.13 | 6.20  | 11.10 | 6.20     |

N.B.: These are indicative values that can change as a function of the stroke

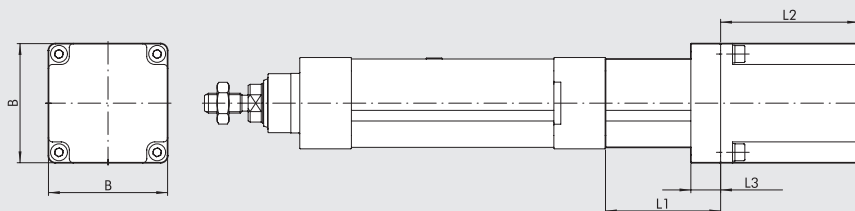
### CYLINDER DIMENSIONS (WITHOUT MOTOR)



| Ø      | L0    | L1    | L2    | L3    | L4    | L5 | ØMM  | N   | O  | P  | Q  | R (h7) | S | T   | V    | RT  | TG   | VA  | VD   | WH |
|--------|-------|-------|-------|-------|-------|----|------|-----|----|----|----|--------|---|-----|------|-----|------|-----|------|----|
| 32     | 134   | 86.3  | 23    | 27    | -     | -  | 19   | 4.5 | -  | -  | -  | -      | - | -   | -    | M6  | 32.5 | 3   | 4.5  | 26 |
| 50     | 157   | 100.8 | 24    | 28.4  | -     | -  | 24   | 5.5 | -  | -  | -  | -      | - | -   | -    | M8  | 46.5 | 5.5 | 5.5  | 37 |
| 63     | 173   | 112.3 | 34    | 39.5  | -     | -  | 29   | 5.5 | -  | -  | -  | -      | - | -   | -    | M8  | 56.5 | 5.5 | 6.5  | 37 |
| 63 HD  | 193   | 132.3 | 34    | 39.5  | -     | -  | 29.5 | 5.5 | -  | -  | -  | -      | - | -   | -    | M8  | 56.5 | 5.5 | 6.5  | 37 |
| 80     | 248   | 181.1 | 41.7  | 47.2  | 215   | -  | 42   | 5   | 19 | 14 | 44 | 10     | 9 | M10 | 17.5 | M10 | 72   | 5.5 | 17.5 | 46 |
| 100    | 270.5 | 200.6 | 46.9  | 54.9  | 232.5 | -  | 69   | 5   | 19 | 19 | 58 | 12     | 9 | M12 | 20   | M10 | 89   | 8   | 20   | 51 |
| 100 HD | 279.5 | 209.6 | 50.95 | 58.45 | 241.5 | 50 | 69   | 5   | 19 | 19 | 58 | 12     | 9 | M12 | 20   | M10 | 89   | 7.5 | 20   | 51 |

## NOTES

## DIMENSIONS OF CYLINDERS WITH IN-LINE MOTOR



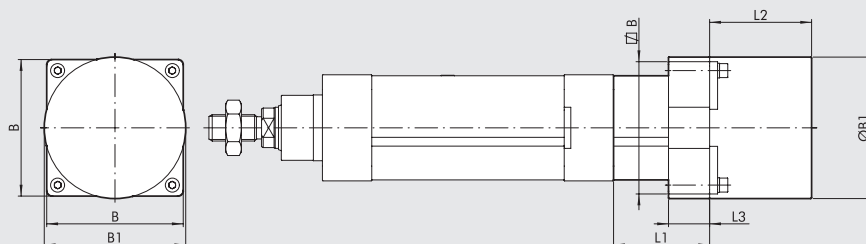
For any missing dimensions, please refer to page A5.25

## VERSION WITH MOTOR

| Size   | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | B    | L1    | L2    | L3   |
|--------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|------|-------|-------|------|
| 32     | BRUSHLESS  | 371032 _ _ _ _ 2200                   | 37M2200000                             | 0.64              | 60              | 60   | 62    | 69.5  | 15   |
|        |            | 371032 _ _ _ _ 2220                   | 37M2220000                             | 1.27              | 60              | 60   | 62    | 95.5  | 15   |
|        |            | 371032 _ _ _ _ 220E                   | 37M2200001                             | 0.64              | 60              | 60   | 69.5  | 105.5 | 13.5 |
|        |            | 371032 _ _ _ _ 222E                   | 37M2220001                             | 1.27              | 60              | 60   | 69.5  | 130.7 | 13.5 |
|        | STEPPING   | 371032 _ _ _ _ 1110                   | 37M1110000                             | 0.8               | NEMA 23         | 56   | 45    | 53.8  | 12   |
|        |            | 371032 _ _ _ _ 1120                   | 37M1120000                             | 1.2               | NEMA 23         | 56   | 45    | 75.8  | 12   |
|        |            | 371032 _ _ _ _ 1121                   | 37M1120001                             | 1.2               | NEMA 23         | 56   | 45    | 75.8  | 12   |
| 50     | BRUSHLESS  | 371050 _ _ _ _ 2330                   | 37M2330000                             | 2.39              | 80              | 80   | 77.4  | 107.3 | 35   |
| 63     | STEPPING   | 371063 _ _ _ _ 1450                   | 37M1450000                             | 6.7               | NEMA 34         | 85.5 | 63.5  | 127   | 16   |
| 63 HD  | STEPPING   | 371H63 _ _ _ _ 1450                   | 37M1450000                             | 6.7               | NEMA 34         | 85.5 | 63.5  | 127   | 16   |
|        |            | 371H63 _ _ _ _ 1470                   | 37M1470000                             | 9.3               | NEMA 34         | 86.6 | 63.5  | 130   | 16   |
| 80     | BRUSHLESS  | 371080 _ _ _ _ 2770                   | 37M2770000                             | 9.5               | 130             | 130  | 120   | 187.5 | 26   |
| 100    | BRUSHLESS  | 371100 _ _ _ _ 2770                   | 37M2770000                             | 9.5               | 130             | 130  | 126   | 187.5 | 40   |
| 100 HD | BRUSHLESS  | 371HA1 _ _ _ _ 2770                   | 37M2770000                             | 9.5               | 130             | 130  | 133.5 | 187.5 | 40   |

## VERSION WITH MOTOR AND BRAKE

| Size   | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | B    | L1    | L2    | L3   |
|--------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|------|-------|-------|------|
| 32     | BRUSHLESS  | 371032 _ _ _ _ 4200                   | 37M4200000                             | 0.64              | 60              | 60   | 62    | 97.5  | 15   |
|        |            | 371032 _ _ _ _ 4220                   | 37M4220000                             | 1.27              | 60              | 60   | 62    | 123.5 | 15   |
|        |            | 371032 _ _ _ _ 420E                   | 37M4200001                             | 0.64              | 60              | 60   | 69.5  | 141.6 | 13.5 |
|        |            | 371032 _ _ _ _ 422E                   | 37M4220001                             | 1.27              | 60              | 60   | 69.5  | 166.8 | 13.5 |
|        | STEPPING   | 371032 _ _ _ _ 3220                   | 37M3220000                             | 1.2               | 60              | 60   | 45    | 151.8 | 7    |
|        |            | 371032 _ _ _ _ 3230                   | 37M3230000                             | 2.5               | 60              | 60   | 45    | 184.5 | 7    |
|        |            | 371032 _ _ _ _ 5120                   | 37M5120000                             | 1.2               | NEMA 23         | 56   | 45    | 112   | 12   |
| 50     | BRUSHLESS  | 371050 _ _ _ _ 4330                   | 37M4330000                             | 2.39              | 80              | 80   | 77.4  | 143   | 35   |
|        | STEPPING   | 371050 _ _ _ _ 3430                   | 37M3430000                             | 2.9               | NEMA 34         | 86.6 | 63.4  | 156.5 | 9.9  |
|        |            | 371050 _ _ _ _ 3460                   | 37M3460000                             | 5.5               | NEMA 34         | 86.6 | 63.4  | 188.5 | 9.9  |
| 63     | STEPPING   | 371063 _ _ _ _ 3460                   | 37M3460000                             | 5.5               | NEMA 34         | 86.6 | 63.5  | 188.5 | 9.9  |
|        |            | 371063 _ _ _ _ 3450                   | 37M3450000                             | 6.3               | NEMA 34         | 86.6 | 63.5  | 188.5 | 9.9  |
| 63 HD  | STEPPING   | 371H63 _ _ _ _ 3450                   | 37M3450000                             | 6.3               | NEMA 34         | 86.6 | 63.5  | 188.5 | 16   |
|        |            | 371H63 _ _ _ _ 3460                   | 37M3460000                             | 5.5               | NEMA 34         | 86.6 | 63.5  | 188.5 | 16   |
|        |            | 371H63 _ _ _ _ 3470                   | 37M3470000                             | 9.3               | NEMA 34         | 86.6 | 63.5  | 220.5 | 16   |
| 80     | BRUSHLESS  | 371080 _ _ _ _ 4770                   | 37M4770000                             | 9.5               | 130             | 130  | 120   | 216   | 26   |
| 100    | BRUSHLESS  | 371100 _ _ _ _ 4770                   | 37M4770000                             | 9.5               | 130             | 130  | 126   | 216   | 40   |
| 100 HD | BRUSHLESS  | 371HA1 _ _ _ _ 4770                   | 37M4770000                             | 9.5               | 130             | 130  | 133.5 | 216   | 40   |

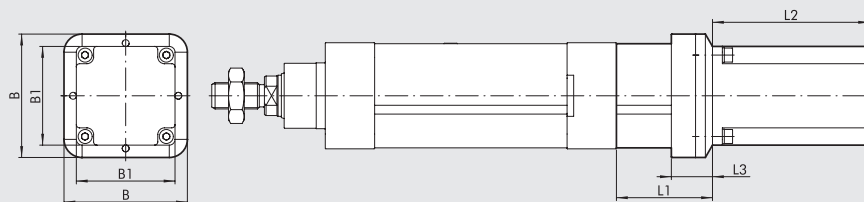


For any missing dimensions, please refer to page A5.25

## VERSION WITH MOTOR

| Size | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | B     | Ø B1  | L1   | L2   | L3 |
|------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|-------|-------|------|------|----|
| 50   | STEPPING   | 371050 _ _ _ _ 1430                   | 37M1430000                             | 2.4               | NEMA 34         | 83    | 86    | 61.4 | 62   | 25 |
|      |            | 371050 _ _ _ _ 1440                   | 37M1440000                             | 4.2               | NEMA 34         | 83    | 86    | 61.4 | 92.2 | 25 |
| 80   | STEPPING   | 371080 _ _ _ _ 1890                   | 37M1890000                             | 17.5              | NEMA 42         | 106.4 | 106.4 | 102  | 221  | 35 |
| 100  | STEPPING   | 371100 _ _ _ _ 1890                   | 37M1890000                             | 17.5              | NEMA 42         | 110   | 106.4 | 109  | 221  | 35 |

## DIMENSIONS OF CYLINDERS WITH IN-LINE MOTOR



For any missing dimensions, please refer to page A5.25

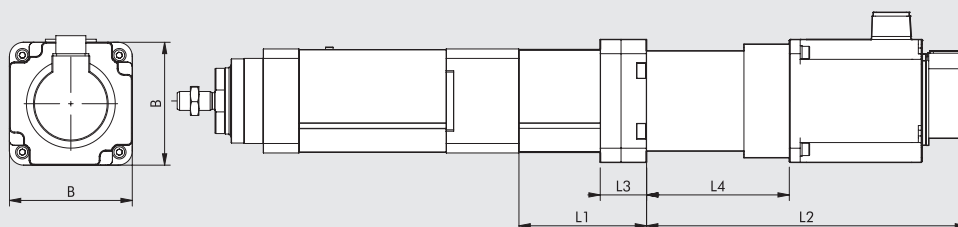
### VERSION WITH MOTOR

| Size  | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | B    | B1   | L1   | L2    | L3 |
|-------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|------|------|------|-------|----|
| 50    | BRUSHLESS  | 371050 ____ 2220                      | 37M2220000                             | 1.27              | 60              | 74.5 | 60   | 61.4 | 95.5  | 25 |
|       |            | 371050 ____ 222E                      | 37M2220001                             | 1.27              | 60              | 74.5 | 60   | 70.5 | 130.7 | 25 |
|       |            | 371050 ____ 233E                      | 37M2330001                             | 2.39              | 80              | 92   | 80   | 78.1 | 138.3 | 29 |
| 63    | BRUSHLESS  | 371063 ____ 2330                      | 37M2330000                             | 2.39              | 80              | 94   | 80   | 78.5 | 107.3 | 25 |
|       |            | 371063 ____ 233E                      | 37M2330001                             | 2.39              | 80              | 94   | 80   | 89.2 | 138.3 | 25 |
| 63 HD | BRUSHLESS  | 371H63 ____ 2330                      | 37M2330000                             | 2.39              | 80              | 94   | 80   | 78.5 | 107.3 | 25 |
|       |            | 371H63 ____ 2540                      | 37M2540000                             | 3.18              | 86              | 94   | 84.4 | 78.5 | 137.1 | 25 |
|       |            | 371H63 ____ 233E                      | 37M2330001                             | 2.39              | 80              | 94   | 80   | 89.2 | 138.3 | 25 |
|       |            | 371H63 ____ 264E                      | 37M2640000                             | 3.18              | 100             | 100  | 100  | 99.2 | 153.3 | 35 |
| 80    | BRUSHLESS  | 371080 ____ 2540                      | 37M2540000                             | 3.18              | 86              | 93   | 84.4 | 102  | 137.1 | 35 |
|       |            | 371080 ____ 264E                      | 37M2640000                             | 3.18              | 100             | 100  | 100  | 111  | 153.3 | 44 |

### VERSION WITH MOTOR AND BRAKE

| Size  | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | B    | B1   | L1   | L2    | L3 |
|-------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|------|------|------|-------|----|
| 50    | BRUSHLESS  | 371050 ____ 4220                      | 37M4220000                             | 1.27              | 60              | 74.5 | 60   | 61.4 | 123.5 | 25 |
|       |            | 371050 ____ 422E                      | 37M4220001                             | 1.27              | 60              | 74.5 | 60   | 70.5 | 166.8 | 25 |
|       |            | 371050 ____ 433E                      | 37M4330001                             | 2.39              | 80              | 92   | 80   | 78.1 | 178   | 29 |
| 63    | BRUSHLESS  | 371063 ____ 4330                      | 37M4330000                             | 2.39              | 80              | 94   | 80   | 78.5 | 143   | 25 |
|       |            | 371063 ____ 433E                      | 37M4330001                             | 2.39              | 80              | 94   | 80   | 89.2 | 178   | 25 |
| 63 HD | BRUSHLESS  | 371H63 ____ 4330                      | 37M4330000                             | 2.39              | 80              | 94   | 80   | 78.5 | 143   | 25 |
|       |            | 371H63 ____ 4540                      | 37M4540000                             | 3.18              | 86              | 94   | 84.4 | 78.5 | 163   | 25 |
|       |            | 371H63 ____ 433E                      | 37M4330001                             | 2.39              | 80              | 94   | 80   | 89.2 | 178   | 25 |
|       |            | 371H63 ____ 464E                      | 37M4640000                             | 3.18              | 100             | 100  | 100  | 99.2 | 192.5 | 35 |
| 80    | BRUSHLESS  | 371080 ____ 4540                      | 37M4540000                             | 3.18              | 86              | 93   | 84.4 | 102  | 163   | 35 |
|       |            | 371080 ____ 464E                      | 37M4640000                             | 3.18              | 100             | 100  | 100  | 111  | 192.5 | 44 |

## DIMENSIONS OF CYLINDERS WITH IN-LINE MOTOR AND GEARBOX



For any missing dimensions, please refer to page A5.25

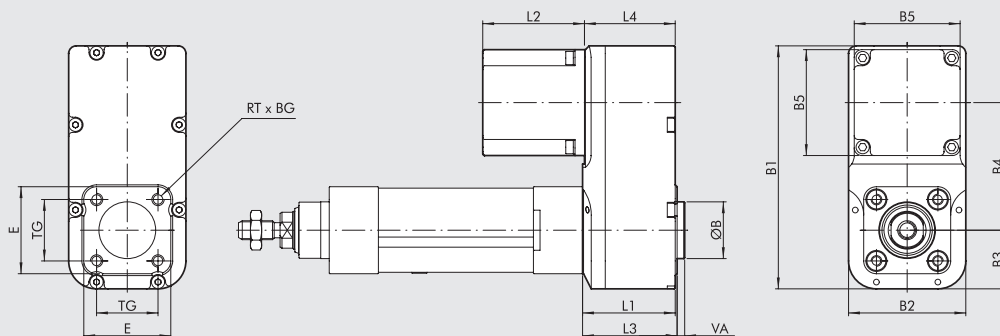
### VERSION WITH MOTOR

| Size   | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Code for gear mounted on the cylinder | Motor torque [Nm] | Coupling flange | B   | L1    | L2    | L3 | L4  |
|--------|------------|---------------------------------------|----------------------------------------|---------------------------------------|-------------------|-----------------|-----|-------|-------|----|-----|
| 100    | BRUSHLESS  | 371100 ____ 6770                      | 37M2770000                             | 37R0364000                            | 9.5               | 130             | 130 | 135   | 338.5 | 49 | 151 |
| 100 HD | BRUSHLESS  | 371HA1 ____ 6770                      | 37M2770000                             | 37R0364000                            | 9.5               | 130             | 130 | 140.5 | 338.5 | 49 | 151 |

### VERSION WITH MOTOR AND BRAKE

| Size   | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Code for gear mounted on the cylinder | Motor torque [Nm] | Coupling flange | B   | L1    | L2  | L3 | L4  |
|--------|------------|---------------------------------------|----------------------------------------|---------------------------------------|-------------------|-----------------|-----|-------|-----|----|-----|
| 100    | BRUSHLESS  | 371100 ____ 7770                      | 37M4770000                             | 37R0364000                            | 9.5               | 130             | 130 | 135   | 367 | 49 | 151 |
| 100 HD | BRUSHLESS  | 371HA1 ____ 7770                      | 37M4770000                             | 37R0364000                            | 9.5               | 130             | 130 | 140.5 | 367 | 49 | 151 |

## DIMENSIONS OF CYLINDERS WITH GEARED MOTOR



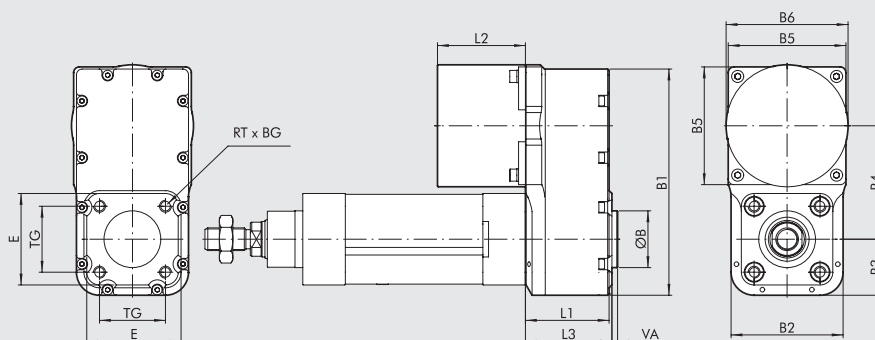
## VERSION WITH MOTOR

For any missing dimensions, please refer to page A5.25

| Size  | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1    | B2  | B3 | B4   | B5   | B6 | E    | L1   | L2    | L3 | L4 | TG   | RT  | VA |
|-------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|-------|-----|----|------|------|----|------|------|-------|----|----|------|-----|----|
| 32    | STEPPING   | 371032_1110                           | 37M1110000                             | 0.8               | NEMA 23         | 30       | 128.5 | 62  | 31 | 67.5 | 56   | 15 | 46   | 49   | 53.8  | 50 | 48 | 32.5 | M6  | 4  |
|       |            | 371032_1120                           | 37M1120000                             | 1.2               | NEMA 23         | 30       | 128.5 | 62  | 31 | 67.5 | 56   | 15 | 46   | 49   | 75.8  | 50 | 48 | 32.5 | M6  | 4  |
|       |            | 371032_1121                           | 37M1120001                             | 1.2               | NEMA 23         | 30       | 128.5 | 62  | 31 | 67.5 | 56   | 15 | 46   | 49   | 75.8  | 50 | 48 | 32.5 | M6  | 4  |
| 63    | STEPPING   | 371063_1450                           | 37M1450000                             | 6.7               | NEMA 34         | 45       | 179.5 | 92  | 46 | 87.5 | 84.5 | 17 | 75.5 | 70   | 127   | 72 | 68 | 56.5 | M8  | 4  |
| 63 HD | STEPPING   | 371H63_1450                           | 37M1450000                             | 6.7               | NEMA 34         | 45       | 179.5 | 92  | 46 | 87.5 | 85.5 | 17 | 75.5 | 70   | 127   | 72 | 68 | 56.5 | M8  | 4  |
| 80    | BRUSHLESS  | 371080_2540                           | 37M2540000                             | 3.18              | 86              | 45       | 204.5 | 115 | 57 | 97.5 | 86   | 21 | -    | 80.5 | 137.1 | -  | -  | 72   | M10 | 4  |

## VERSION WITH MOTOR AND BRAKE

| Size | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1    | B2  | B3 | B4   | B5 | B6 | E  | L1   | L2    | L3 | L4 | TG   | RT  | VA |
|------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|-------|-----|----|------|----|----|----|------|-------|----|----|------|-----|----|
| 32   | STEPPING   | 371032_3220                           | 37M3220000                             | 1.2               | 60              | 30       | 128.5 | 62  | 31 | 67.5 | 60 | 15 | 46 | 49   | 151.8 | 50 | 48 | 32.5 | M6  | 4  |
|      |            | 371032_3230                           | 37M3230000                             | 2.5               | 60              | 30       | 128.5 | 62  | 31 | 67.5 | 60 | 15 | 46 | 49   | 184.5 | 50 | 48 | 32.5 | M6  | 4  |
|      |            | 371032_5120                           | 37M5120000                             | 1.2               | NEMA 23         | 30       | 128.5 | 62  | 31 | 67.5 | 56 | 15 | 46 | 49   | 112   | 50 | 48 | 32.5 | M6  | 4  |
| 80   | BRUSHLESS  | 371080_4540                           | 37M4540000                             | 3.18              | 86              | 45       | 204.5 | 115 | 57 | 97.5 | 86 | 21 | -  | 80.5 | 163   | -  | -  | 72   | M10 | 4  |

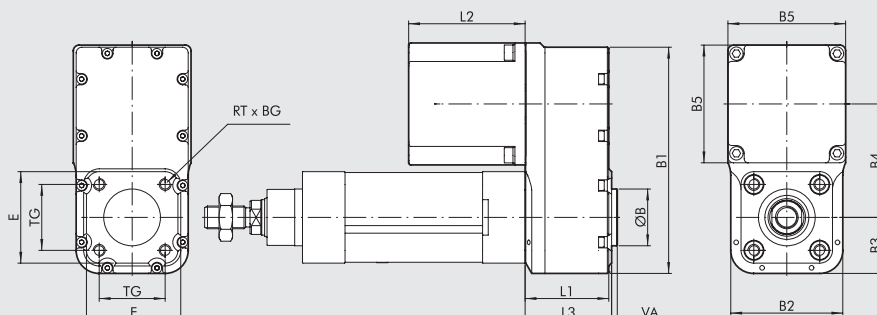


## VERSION WITH MOTOR

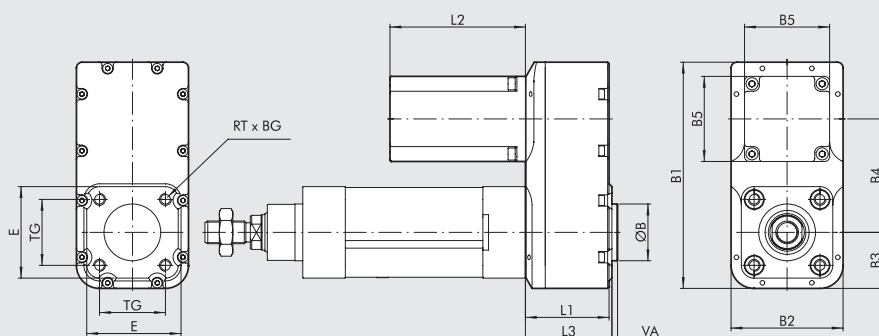
For any missing dimensions, please refer to page A5.25

| Size | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1    | B2 | B3   | B4 | B5 | ØB6 | B6 | E    | L1 | L2   | L3 | TG   | RT | VA |
|------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|-------|----|------|----|----|-----|----|------|----|------|----|------|----|----|
| 50   | STEPPING   | 371050_1430                           | 37M1430000                             | 2.4               | NEMA 34         | 40       | 159.5 | 79 | 39.5 | 80 | 80 | 86  | 17 | 64.5 | 59 | 62   | 61 | 46.5 | M8 | 4  |
|      |            | 371050_1440                           | 37M1440000                             | 4.2               | NEMA 34         | 40       | 159.5 | 79 | 39.5 | 80 | 83 | 86  | 17 | 64.5 | 59 | 92.2 | 61 | 46.5 | M8 | 4  |

## ACTUATORS



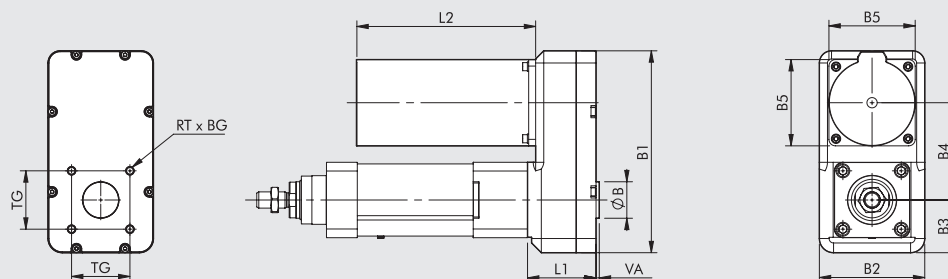
| Size | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1 | B2    | B3 | B4   | B5 | BG   | E  | L1   | L2 | L3    | TG | RT   | VA |   |
|------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|----|-------|----|------|----|------|----|------|----|-------|----|------|----|---|
| 50   | STEPPING   | 371050                                | 3430                                   | 37M3430000        | 2.9             | NEMA 34  | 40 | 159.5 | 79 | 39.5 | 80 | 86.6 | 17 | 64.5 | 59 | 156.5 | 61 | 46.5 | M8 | 4 |
|      |            | 371050                                | 3460                                   | 37M3460000        | 5.5             | NEMA 34  | 40 | 159.5 | 79 | 39.5 | 80 | 86.6 | 17 | 64.5 | 59 | 188.5 | 61 | 46.5 | M8 | 4 |



| Size  | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1    | B2    | B3   | B4    | B5   | BG   | E    | L1   | L2    | L3   | TG   | RT   | VA |
|-------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|-------|-------|------|-------|------|------|------|------|-------|------|------|------|----|
| 50    | BRUSHLESS  | 371050_2220                           | 37M2220000                             | 1.27              | 60              | 40       | 159.5 | 79    | 39.5 | 80    | 60   | 17   | 64.5 | 59   | 95.5  | 61   | 46.5 | M8   | 4  |
|       |            | 371050_222E                           | 37M2220001                             | 1.27              | 60              | 40       | 159.5 | 79    | 39.5 | 80    | 60   | 17   | 64.5 | 59   | 130.7 | 61   | 46.5 | M8   | 4  |
|       |            | 371050_233E                           | 37M2330001                             | 2.39              | 80              | 40       | 159.5 | 80    | 39.5 | 75    | 80   | 17   | 64.5 | 59   | 138.3 | 61   | 46.5 | M8   | 4  |
| 63    | BRUSHLESS  | 371063_2330                           | 37M2330000                             | 2.39              | 80              | 45       | 179.5 | 92    | 46   | 87.5  | 80   | 17   | 75.5 | 70   | 107.3 | 72   | 56.5 | M8   | 4  |
|       |            | 371063_233E                           | 37M2330001                             | 2.39              | 80              | 45       | 179.5 | 92    | 46   | 87.5  | 80   | 17   | 75.5 | 70   | 138.3 | 72   | 56.5 | M8   | 4  |
| 63 HD | BRUSHLESS  | 371H63_2330                           | 37M2330000                             | 2.39              | 80              | 45       | 179.5 | 92    | 46   | 87.5  | 80   | 17   | 75.5 | 70   | 107.3 | 72   | 56.5 | M8   | 4  |
|       |            | 371H63_2540                           | 37M2540000                             | 3.18              | 86              | 45       | 179.5 | 92    | 46   | 87.5  | 86   | 17   | 75.5 | 70   | 137.1 | 72   | 56.5 | M8   | 4  |
|       |            | 371H63_233E                           | 37M2330001                             | 2.39              | 80              | 45       | 179.5 | 92    | 46   | 87.5  | 80   | 17   | 75.5 | 70   | 138.3 | 72   | 56.5 | M8   | 4  |
|       |            | 371H63_264E                           | 37M2640000                             | 3.18              | 100             | 45       | 191.4 | 100   | 46   | 95    | 100  | 17   | 75.5 | 74.8 | 153.3 | 76.8 | 56.5 | M8   | 4  |
|       |            | STEPPING                              | 371H63_1470                            | 37M1470000        | 9.3             | NEMA 34  | 45    | 179.5 | 92   | 46    | 87.5 | 86.6 | 17   | 75.5 | 70    | 130  | 72   | 56.5 | M8 |
| 80    | BRUSHLESS  | 371080_264E                           | 37M2640000                             | 3.18              | 100             | 45       | 224.8 | 130   | 59   | 109.8 | 100  | 17   | -    | 76.5 | 153.3 | -    | 72   | M10  | -  |

| Size  | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1    | B2  | B3   | B4    | B5   | BG | E    | L1   | L2    | L3   | TG   | RT  | VA |
|-------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|-------|-----|------|-------|------|----|------|------|-------|------|------|-----|----|
| 50    | BRUSHLESS  | 371050 _____ 4220                     | 37M4220000                             | 1.27              | 60              | 40       | 159.5 | 79  | 39.5 | 80    | 60   | 17 | 64.5 | 59   | 123.5 | 61   | 46.5 | M8  | 4  |
|       |            | 371050 _____ 422E                     | 37M4220001                             | 1.27              | 60              | 40       | 159.5 | 79  | 39.5 | 80    | 60   | 17 | 64.5 | 59   | 166.8 | 61   | 46.5 | M8  | 4  |
|       |            | 371050 _____ 433E                     | 37M4330001                             | 2.39              | 80              | 40       | 159.5 | 80  | 39.5 | 75    | 80   | 17 | 64.5 | 59   | 178   | 61   | 46.5 | M8  | 4  |
|       |            |                                       |                                        |                   |                 |          |       |     |      |       |      |    |      |      |       |      |      |     |    |
| 63    | BRUSHLESS  | 371063 _____ 4330                     | 37M4330000                             | 2.39              | 80              | 45       | 179.5 | 92  | 46   | 87.5  | 80   | 17 | 75.5 | 70   | 143   | 72   | 56.5 | M8  | 4  |
|       |            | 371063 _____ 433E                     | 37M4330001                             | 2.39              | 80              | 45       | 179.5 | 92  | 46   | 87.5  | 80   | 17 | 75.5 | 70   | 178   | 72   | 56.5 | M8  | 4  |
|       | STEPPING   | 371063 _____ 3460                     | 37M3460000                             | 5.5               | NEMA 34         | 45       | 179.5 | 92  | 46   | 87.5  | 86.6 | 17 | 75.5 | 70   | 188.5 | 72   | 56.5 | M8  | 4  |
|       |            | 371063 _____ 3450                     | 37M3450000                             | 6.3               | NEMA 34         | 45       | 179.5 | 92  | 46   | 87.5  | 86.6 | 17 | 75.5 | 70   | 188.5 | 72   | 56.5 | M8  | 4  |
| 63 HD | BRUSHLESS  | 371H63 _____ 4330                     | 37M4330000                             | 2.39              | 80              | 45       | 179.5 | 92  | 46   | 87.5  | 80   | 17 | 75.5 | 70   | 143   | 72   | 56.5 | M8  | 4  |
|       |            | 371H63 _____ 4540                     | 37M4540000                             | 3.18              | 86              | 45       | 179.5 | 92  | 46   | 87.5  | 86   | 17 | 75.5 | 70   | 163   | 72   | 56.5 | M8  | 4  |
|       |            | 371H63 _____ 433E                     | 37M4330001                             | 2.39              | 80              | 45       | 179.5 | 92  | 46   | 87.5  | 80   | 17 | 75.5 | 70   | 178   | 72   | 56.5 | M8  | 4  |
|       |            | 371H63 _____ 464E                     | 37M4640000                             | 3.18              | 100             | 45       | 191.4 | 100 | 46   | 95    | 100  | 17 | 75.5 | 74.8 | 192.5 | 76.8 | 56.5 | M8  | 4  |
|       | STEPPING   | 371H63 _____ 3470                     | 37M3470000                             | 9.3               | NEMA 34         | 45       | 179.5 | 92  | 46   | 87.5  | 86.6 | 17 | 75.5 | 70   | 220.5 | 72   | 56.5 | M8  | 4  |
|       |            | 371H63 _____ 3450                     | 37M3450000                             | 6.3               | NEMA 34         | 45       | 179.5 | 92  | 46   | 87.5  | 86.6 | 17 | 75.5 | 70   | 188.5 | 72   | 56.5 | M8  | 4  |
|       |            | 371H63 _____ 3460                     | 37M3460000                             | 5.5               | NEMA 34         | 45       | 179.5 | 92  | 46   | 87.5  | 86.6 | 17 | 75.5 | 70   | 188.5 | 72   | 56.5 | M8  | 4  |
|       |            |                                       |                                        |                   |                 |          |       |     |      |       |      |    |      |      |       |      |      |     |    |
| 80    | BRUSHLESS  | 371080 _____ 464E                     | 37M4640000                             | 3.18              | 100             | 45       | 224.8 | 130 | 59   | 109.8 | 100  | 17 | -    | 76.5 | 192.5 | -    | 72   | M10 | 4  |

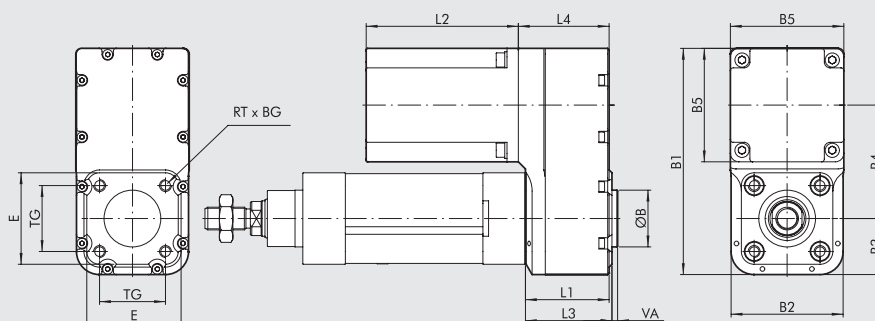
## DIMENSIONS OF CYLINDERS WITH GEARED MOTOR



For any missing dimensions, please refer to page A5.25

## VERSION WITH MOTOR

| Size | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1  | B2  | B3 | B4  | B5    | BG | L1   | L2  | TG | RT  | VA |
|------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|-----|-----|----|-----|-------|----|------|-----|----|-----|----|
| 80   | STEPPING   | 371080 _____ 1890                     | 37M1890000                             | 17.5              | NEMA 42         | 45       | 249 | 130 | 65 | 120 | 106.4 | 21 | 84.5 | 221 | 72 | M10 | 4  |
| 100  | STEPPING   | 371100 _____ 1890                     | 37M1890000                             | 17.5              | NEMA 42         | 55       | 285 | 150 | 75 | 120 | 106.4 | 21 | 91.5 | 221 | 89 | M10 | 4  |



For any missing dimensions, please refer to page A5.25

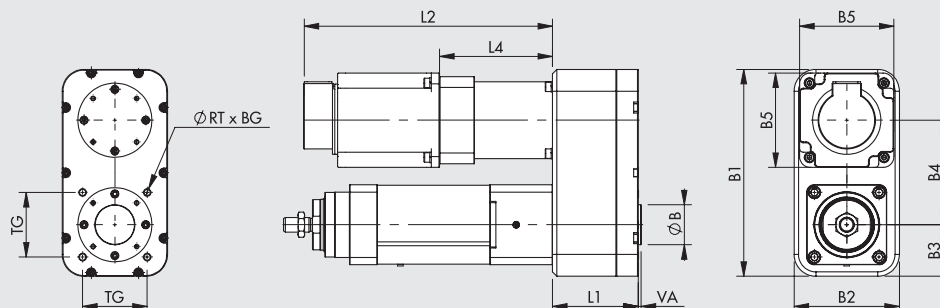
## VERSION WITH MOTOR

| Size   | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1    | B2  | B3   | B4   | B5  | BG | E    | L1   | L2    | L3 | L4 | TG   | RT  | VA |
|--------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|-------|-----|------|------|-----|----|------|------|-------|----|----|------|-----|----|
| 32     | BRUSHLESS  | 371032 _____ 2200                     | 37M2200000                             | 0.64              | 60              | 30       | 128.5 | 62  | 31   | 67.5 | 60  | 15 | 46   | 49   | 69.5  | 50 | 51 | 32.5 | M6  | 4  |
|        |            | 371032 _____ 2220                     | 37M2220000                             | 1.27              | 60              | 30       | 128.5 | 62  | 31   | 67.5 | 60  | 15 | 46   | 49   | 95.5  | 50 | 51 | 32.5 | M6  | 4  |
|        |            | 371032 _____ 220E                     | 37M2200001                             | 0.64              | 60              | 30       | 128.5 | 62  | 31   | 67.5 | 60  | 15 | 46   | 49   | 105.5 | 50 | 51 | 32.5 | M6  | 4  |
|        |            | 371032 _____ 222E                     | 37M2220001                             | 1.27              | 60              | 30       | 128.5 | 62  | 31   | 67.5 | 60  | 15 | 46   | 49   | 130.7 | 50 | 51 | 32.5 | M6  | 4  |
| 50     | BRUSHLESS  | 371050 _____ 2330                     | 37M2330000                             | 2.39              | 80              | 40       | 159.5 | 79  | 39.5 | 80   | 80  | 17 | 64.5 | 59   | 107.3 | 61 | 64 | 46.5 | M8  | 4  |
| 80     | BRUSHLESS  | 371080 _____ 2770                     | 37M2770000                             | 9.5               | 130             | 45       | 249   | 130 | 65   | 119  | 130 | 21 | -    | 84.5 | 187.5 | -  | -  | 72   | M10 | 4  |
| 100    | BRUSHLESS  | 371100 _____ 2770                     | 37M2770000                             | 9.5               | 130             | 55       | 285   | 150 | 75   | 145  | 130 | 21 | -    | 91.5 | 187.5 | -  | -  | 89   | M10 | 4  |
| 100 HD | BRUSHLESS  | 371HA1 _____ 2770                     | 37M2770000                             | 9.5               | 130             | 55       | 285   | 150 | 75   | 145  | 130 | 21 | -    | 91.5 | 188   | -  | -  | 89   | M10 | 4  |

## VERSION WITH MOTOR AND BRAKE

| Size   | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1    | B2  | B3   | B4   | B5  | BG | E    | L1   | L2    | L3 | L4 | TG   | RT  | VA |
|--------|------------|---------------------------------------|----------------------------------------|-------------------|-----------------|----------|-------|-----|------|------|-----|----|------|------|-------|----|----|------|-----|----|
| 32     | BRUSHLESS  | 371032 _____ 4200                     | 37M4200000                             | 0.64              | 60              | 30       | 128.5 | 62  | 31   | 67.5 | 60  | 15 | 46   | 49   | 67.5  | 50 | 51 | 32.5 | M6  | 4  |
|        |            | 371032 _____ 4220                     | 37M4220000                             | 1.27              | 60              | 30       | 128.5 | 62  | 31   | 67.5 | 60  | 15 | 46   | 49   | 123.5 | 50 | 51 | 32.5 | M6  | 4  |
|        |            | 371032 _____ 420E                     | 37M4200001                             | 0.64              | 60              | 30       | 128.5 | 62  | 31   | 67.5 | 60  | 15 | 46   | 49   | 141.6 | 50 | 51 | 32.5 | M6  | 4  |
|        |            | 371032 _____ 422E                     | 37M4220001                             | 1.27              | 60              | 30       | 128.5 | 62  | 31   | 67.5 | 60  | 15 | 46   | 49   | 166.8 | 50 | 51 | 32.5 | M6  | 4  |
| 50     | BRUSHLESS  | 371050 _____ 4330                     | 37M4330000                             | 2.39              | 80              | 40       | 159.5 | 79  | 39.5 | 80   | 80  | 17 | 64.5 | 59   | 143   | 61 | 64 | 46.5 | M8  | 4  |
| 80     | BRUSHLESS  | 371080 _____ 4770                     | 37M4770000                             | 9.5               | 130             | 45       | 249   | 130 | 65   | 119  | 130 | 21 | -    | 84.5 | 216   | -  | -  | 72   | M10 | 4  |
| 100    | BRUSHLESS  | 371100 _____ 4770                     | 37M4770000                             | 9.5               | 130             | 55       | 285   | 150 | 75   | 145  | 130 | 21 | -    | 91.5 | 216   | -  | -  | 89   | M10 | 4  |
| 100 HD | BRUSHLESS  | 371HA1 _____ 4770                     | 37M4770000                             | 9.5               | 130             | 55       | 285   | 150 | 75   | 145  | 130 | 21 | -    | 91.5 | 216   | -  | -  | 89   | M10 | 4  |

# DIMENSIONS OF CYLINDERS WITH GEARED MOTOR AND GEARBOX



For any missing dimensions, please refer to page A5.25

## VERSION WITH MOTOR

| Size   | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Code for gearbox mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1  | B2  | B3 | B4  | B5  | BG | L1  | L2  | L4  | TG | RT  | VA |
|--------|------------|---------------------------------------|----------------------------------------|------------------------------------------|-------------------|-----------------|----------|-----|-----|----|-----|-----|----|-----|-----|-----|----|-----|----|
| 100 HD | BRUSHLESS  | 371HA1_ _ _ _ _ 6770                  | 37M2770000                             | 37R0364000                               | 9.5               | 130             | 55       | 285 | 145 | 71 | 144 | 130 | 21 | 118 | 343 | 156 | 89 | M10 | 4  |

## VERSION WITH MOTOR AND BRAKE

| Size   | Motor type | Code for cylinder complete with motor | Code for motor mounted on the cylinder | Code for gearbox mounted on the cylinder | Motor torque [Nm] | Coupling flange | ØB (d11) | B1  | B2  | B3 | B4  | B5  | BG | L1  | L2    | L4  | TG | RT  | VA |
|--------|------------|---------------------------------------|----------------------------------------|------------------------------------------|-------------------|-----------------|----------|-----|-----|----|-----|-----|----|-----|-------|-----|----|-----|----|
| 100 HD | BRUSHLESS  | 371HA1_ _ _ _ _ 7770                  | 37M4770000                             | 37R0364000                               | 9.5               | 130             | 55       | 285 | 145 | 71 | 144 | 130 | 21 | 118 | 371.5 | 156 | 89 | M10 | 4  |

## NOTES

## MOTOR-DRIVE COUPLINGS



| MOTOR CODES                          |                                                                                     | DRIVES CODES                                                                                 |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
|--------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                      |                                                                                     |  Metal Work |  37D1222000 * |  37D1332000 * |  37D1442000 |  37D1552000 |  37D1362001 |
| Metal Work                           | Manufacturer                                                                        | Manufacturer                                                                                 | RTA CSD 94                                                                                     | RTA NDC 96                                                                                     | RTA PLUS A4                                                                                    | RTA PLUS B7                                                                                    | X-MIND B6                                                                                      |
|                                      |                                                                                     |                                                                                              | (4.4A 24-48VDC)                                                                                | (6A 2-75VDC)                                                                                   | (6A 77-140VDC)                                                                                 | (10A 28-62VAC) ●                                                                               | (6A 110-230VAC) ●                                                                              |
| STEPPING MOTORS                      |                                                                                     |                                                                                              |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| 37M1110000                           |    | SANYO DENKI 103-H7123-1749 (4A 75V max)                                                      | Ø32                                                                                            | Ø32 ◆                                                                                          | -                                                                                              | Ø32 ■                                                                                          | -                                                                                              |
| 37M1120000                           |    | SANYO DENKI 103-H7126-1740 (4A 75V max)                                                      | Ø32                                                                                            | Ø32 ◆                                                                                          | -                                                                                              | Ø32 ■                                                                                          | -                                                                                              |
| 37M1120001                           |    | SANYO DENKI 103-H7126-6640 (5.6A 75V max)                                                    | -                                                                                              | Ø32                                                                                            | -                                                                                              | Ø32 ■                                                                                          | -                                                                                              |
| 37M1430000                           |    | SANYO DENKI 103-H8221-6241 (6A 140V max)                                                     | -                                                                                              | Ø50                                                                                            | Ø 50                                                                                           | Ø50 ◆                                                                                          | Ø50 ▲                                                                                          |
| 37M1440000                           |    | SANYO DENKI 103-H8222-6340 (6A 140V max)                                                     | -                                                                                              | Ø50                                                                                            | Ø 50                                                                                           | Ø50 ◆                                                                                          | Ø50 ▲                                                                                          |
| 37M1450000                           |    | SANYO DENKI SM-2863-5255 (6A 140V max)                                                       | -                                                                                              | Ø63 - Ø63 HD                                                                                   | Ø63 - Ø63 HD                                                                                   | Ø63 - Ø63 HD ◆                                                                                 | Ø63 - Ø63 HD ▲                                                                                 |
| 37M1470000                           |    | B&R 80MPH6.101S000-01 (10A 80V max)                                                          | -                                                                                              | -                                                                                              | -                                                                                              | Ø63 HD                                                                                         | -                                                                                              |
| 37M1890000                           |   | SANYO DENKI 103-H89223-6341 (6A 230V max)                                                    | -                                                                                              | -                                                                                              | -                                                                                              | -                                                                                              | Ø80 - Ø100                                                                                     |
| STEPPING MOTORS WITH BRAKE           |                                                                                     |                                                                                              |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| 37M5120000                           |  | SANYO DENKI 103-H7126-1710B (4A 75V max)                                                     | Ø32                                                                                            | Ø32 ◆                                                                                          | -                                                                                              | Ø32 ■                                                                                          | -                                                                                              |
| STEPPING MOTORS WITH BRAKE + ENCODER |                                                                                     |                                                                                              |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| 37M3220000                           |  | B&R 80MPF3.500D114-01 (5A 80V max)                                                           | -                                                                                              | Ø32 ◆                                                                                          | Ø32 ■                                                                                          | Ø32 ■                                                                                          | -                                                                                              |
| 37M3230000                           |  | B&R 80MPF5.500D114-01 (5A 80V max)                                                           | -                                                                                              | Ø32 ◆                                                                                          | Ø32 ■                                                                                          | Ø32 ■                                                                                          | -                                                                                              |
| 37M3430000                           |  | B&R 80MPH1.600D114-01 (6A 80V max)                                                           | -                                                                                              | Ø50                                                                                            | Ø50 ▲                                                                                          | Ø50 ◆                                                                                          | -                                                                                              |
| 37M3460000                           |  | B&R 80MPH3.600D114-01 (6A 80V max)                                                           | -                                                                                              | Ø50 - Ø63 - Ø63 HD                                                                             | Ø50 - Ø63 - Ø63 HD ▲                                                                           | Ø50 - Ø63 - Ø63 HD ◆                                                                           | -                                                                                              |
| 37M3450000                           |  | B&R 80MPH4.101D114-01 (10A 80V max)                                                          | -                                                                                              | -                                                                                              | -                                                                                              | Ø63 - Ø63 HD                                                                                   | -                                                                                              |
| 37M3470000                           |  | B&R 80MPH6.101D114-01 (10A 80V max)                                                          | -                                                                                              | -                                                                                              | -                                                                                              | Ø63 HD                                                                                         | -                                                                                              |

\* In all applications requiring motor powered up to 6A / 55VDC, the programmable drive e.drive, code 37D1332002, can be used.

◆ Important! Limit current

■ Important! Limit current and voltage

▲ Important! Limit voltage

● Important! AC drive to continuous voltage VDC = VAC ·  $\sqrt{2}$

| MOTOR CODES                 |                                                                                     | DRIVES CODES                                                                        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                             |                                                                                     |  |  |  |  |  |  |
|                             |                                                                                     | Metal Work                                                                          | 37D2400008                                                                          | 37D2200001                                                                          | 37D2300000                                                                            | 37D2400007                                                                            | 37D2400006                                                                            |
| Metal Work                  | Manufacturer                                                                        | SANYO DENKI RS3A03                                                                  | DELTA ASD-A2-0221-M                                                                 | DELTA ASD-A2-0421-M                                                                 | DELTA ASD-A2-0721-M                                                                   | DELTA ASD-A2-1021-M                                                                   | DELTA ASD-A2-3043-M                                                                   |
|                             |                                                                                     | (30A 200-1000 W)                                                                    | (200W)                                                                              | (400W)                                                                              | (750W)                                                                                | (1000W)                                                                               | (3000W)                                                                               |
| BRUSHLESS MOTORS            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| 37M2200000                  |  | SANYO DENKI R2AA06020FXH11M (200W)                                                  | Ø32                                                                                 | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M2220000                  |  | SANYO DENKI R2AA06040FXH11M (400W)                                                  | Ø32 - Ø50                                                                           | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M2330000                  |  | SANYO DENKI R2AA08075FXH11M (750W)                                                  | Ø50 - Ø63 - Ø63 HD                                                                  | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M2540000                  |  | SANYO DENKI R2AAB8100HXH29M (1000W)                                                 | Ø63 HD - Ø80                                                                        | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M2200001                  |  | DELTA ECMA-C20602RS (200W)                                                          | -                                                                                   | Ø32                                                                                 | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M2220001                  |  | DELTA ECMA-C20604RS (400W)                                                          | -                                                                                   | -                                                                                   | Ø32 - Ø50                                                                             | -                                                                                     | -                                                                                     |
| 37M2330001                  |  | DELTA ECMA-C20807RS (750W)                                                          | -                                                                                   | -                                                                                   | -                                                                                     | Ø50 - Ø63 - Ø63HD                                                                     | -                                                                                     |
| 37M2640000                  |  | DELTA ECMA-C21010R9 (1000W)                                                         | -                                                                                   | -                                                                                   | -                                                                                     | -                                                                                     | Ø63HD - Ø80                                                                           |
| 37M2770000                  |  | DELTA ECMA-J11330R4 (3000W)                                                         | -                                                                                   | -                                                                                   | -                                                                                     | -                                                                                     | Ø80 - Ø100 - Ø100 HD                                                                  |
| BRUSHLESS MOTORS WITH BRAKE |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| 37M4200000                  |  | SANYO DENKI R2AA06020FCH11M (200W)                                                  | Ø32                                                                                 | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M4220000                  |  | SANYO DENKI R2AA06040FCH11M (400W)                                                  | Ø32 - Ø50                                                                           | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M4330000                  |  | SANYO DENKI R2AA08075FCH11M (750W)                                                  | Ø50 - Ø63 - Ø63 HD                                                                  | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M4540000                  |  | SANYO DENKI R2AAB8100HCH29M (1000W)                                                 | Ø63 HD - Ø80                                                                        | -                                                                                   | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M4200001                  |  | DELTA ECMA-C20602SS (200W)                                                          | -                                                                                   | Ø32                                                                                 | -                                                                                     | -                                                                                     | -                                                                                     |
| 37M4220001                  |  | DELTA ECMA-C20604SS (400W)                                                          | -                                                                                   | -                                                                                   | Ø32 - Ø50                                                                             | -                                                                                     | -                                                                                     |
| 37M4330001                  |  | DELTA ECMA-C20807SS (750W)                                                          | -                                                                                   | -                                                                                   | -                                                                                     | Ø50 - Ø63 - Ø63HD                                                                     | -                                                                                     |
| 37M4640000                  |  | DELTA ECMA-C21010S9 (1000W)                                                         | -                                                                                   | -                                                                                   | -                                                                                     | -                                                                                     | Ø63HD - Ø80                                                                           |
| 37M4770000                  |  | DELTA ECMA-J11330S4 (3000W)                                                         | -                                                                                   | -                                                                                   | -                                                                                     | -                                                                                     | Ø80 - Ø100 - Ø100 HD                                                                  |

## KEY TO CODES FOR ELECTRIC CYLINDER SERIE ELEKTRO ISO 15552

### KEY TO CODES CYLINDER WITHOUT MOTOR

| CYL | 37<br>TYPE            | 1                             | 032<br>SIZE                                                                                        | 0100<br>STROKE | 1<br>SCREW<br>PITCH                                                                                        | 5<br>VERSION                                                                                                                 |
|-----|-----------------------|-------------------------------|----------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|     | 37 Electric actuators | 1 ISO 15552 electric cylinder | 032 32<br>050 50<br>063 63<br>◆ H63 63 Heavy Duty<br>◀ 080 80<br>◀ 100 100<br>▼ HA1 100 Heavy Duty |                | 1 Pitch 4<br>2 Pitch 5<br>4 Pitch 10<br>5 Pitch 12<br>6 Pitch 16<br>7 Pitch 20<br>8 Pitch 32<br>9 Pitch 40 | 5 Without non-rotating IP40<br>6 With non-rotating IP40<br>7 Without non-rotating IP55/IP65<br>8 With non-rotating IP55/IP65 |

N.B.: For the possible ordering codes, please refer to the next page.

- ◆ Only with screw pitch 5 or pitch 10.
- ◀ Only for versions 7 and 8.
- ▼ Only with screw pitch 10.

N.B.: An piston rod anti-rotation system must be used. If the piston rod is not fixed firmly to an element, a flange or to any other device preventing it from rotating, a cylinder in the anti-rotation version must be used.

### KEY TO CODES CYLINDER WITH MOTOR

| CYL | 37<br>TYPE            | 1                             | 032<br>SIZE                                                                                        | 0100<br>STROKE | 1<br>SCREW<br>PITCH                                                                                        | 1<br>VERSION                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DRIVE                                                                                                                                                                                           |                                                                               |                                                                                                                                                               |                                         |
|-----|-----------------------|-------------------------------|----------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|     |                       |                               |                                                                                                    |                |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1<br>MOTOR *                                                                                                                                                                                    | 2<br>FLANGE                                                                   | 2<br>TORQUE                                                                                                                                                   | 0                                       |
|     | 37 Electric actuators | 1 ISO 15552 electric cylinder | 032 32<br>050 50<br>063 63<br>◆ H63 63 Heavy Duty<br>◀ 080 80<br>◀ 100 100<br>▼ HA1 100 Heavy Duty |                | 1 Pitch 4<br>2 Pitch 5<br>4 Pitch 10<br>5 Pitch 12<br>6 Pitch 16<br>7 Pitch 20<br>8 Pitch 32<br>9 Pitch 40 | <b>IN-LINE</b> <ul style="list-style-type: none"> <li>● 1 Without non-rotating IP40/IP20</li> <li>● 2 With non-rotating IP40/IP20</li> <li>■ 3 Without non-rotating IP55/IP65</li> <li>■ 4 With non-rotating IP55/IP65</li> </ul> <b>GEARED</b> <ul style="list-style-type: none"> <li>● 5 Without non-rotating IP40/IP20</li> <li>● 6 With non-rotating IP40/IP20</li> <li>■ 7 Without non-rotating IP55/IP65</li> <li>■ 8 With non-rotating IP55/IP65</li> </ul> | 1 STEPPING<br>2 BRUSHLESS<br>3 STEPPING with BRAKE + Encoder<br>4 BRUSHLESS with BRAKE<br>5 STEPPING with BRAKE without Encoder<br>6 BRUSHLESS with gearbox<br>7 BRUSHLESS with BRAKE + gearbox | 1 NEMA 23<br>2 60<br>3 80<br>4 NEMA 34<br>5 86<br>6 100<br>7 130<br>8 NEMA 42 | 0 0 - 0.79 Nm<br>1 0.8 - 1.19 Nm<br>2 1.2 - 2.19 Nm<br>3 2.2 - 3 Nm<br>4 3.01 - 5 Nm<br>5 6.21 - 7 Nm<br>6 5.01 - 6.2 Nm<br>7 7.01 - 10 Nm<br>9 15.01 - 25 Nm | 0 Base<br>1 Greater rpm<br>+ E Type "E" |

N.B.: The Orderable configurations are shown on the next page.

- ◆ Only with screw pitch 5 or pitch 10.
- ◀ Only for versions 3, 4, 7 and 8.
- ▼ Only with screw pitch 10.
- Version IP40 available for all STEPPING and BRUSHLESS motors, for only the sizes 32, 50 and 63, with the exception of motor code 37M5120000 which it is IP20.
- Version IP55 available for STEPPING motors, for only the sizes 50, 63, 80 and 100 all the motors, with the exception of motor code 37M1470000; for Ø 32 only for motor code 37M1120001; version IP65 available for BRUSHLESS motors, BRUSHLESS with BRAKE and STEPPING with BRAKE + ENCODER motors (all sizes).
- ✦ Identifies configuration with Delta BRUSHLESS motors.
- \* On request available versions with gearbox with reduction ratios other than those eventually foreseen as standard.

N.B.: An piston rod anti-rotation system must be used. If the piston rod is not fixed firmly to an element, a flange or to any other device preventing it from rotating, a cylinder in the anti-rotation version must be used.

POSSIBLE ORDERING CODES

Ø 32

| Drive   | Version | Screw pitch |   |   |      |
|---------|---------|-------------|---|---|------|
| 371032_ |         |             | 1 | 1 | 1110 |
|         |         |             | 5 | 2 | 1120 |
|         |         |             |   | 5 | 1121 |
|         |         |             |   | 6 | 5120 |
|         |         |             |   |   | 2200 |
|         |         |             |   |   | 220E |
|         |         |             |   |   | 2220 |
|         |         |             |   |   | 222E |
|         |         |             |   |   | 3220 |
|         |         |             |   |   | 3230 |
|         |         |             |   |   | 4200 |
|         |         |             |   |   | 420E |
|         |         |             |   |   | 4220 |
|         |         |             |   |   | 422E |
|         |         |             | 3 |   | 1121 |
|         |         |             | 4 |   | 2200 |
|         |         |             | 7 |   | 220E |
|         |         |             | 8 |   | 2220 |
|         |         |             |   |   | 222E |
|         |         |             |   |   | 3220 |
|         |         |             |   |   | 3230 |
|         |         |             |   |   | 4200 |
|         |         |             |   |   | 420E |
|         |         |             |   |   | 4220 |
|         |         |             |   |   | 422E |

----- = Enter the stroke in mm

Ø 50

| Drive   | Version | Screw pitch |   |   |      |
|---------|---------|-------------|---|---|------|
| 371050_ |         |             | 2 | 1 | 1430 |
|         |         |             | 4 | 2 | 1440 |
|         |         |             | 6 | 3 | 2220 |
|         |         |             |   | 4 | 222E |
|         |         |             |   | 5 | 2330 |
|         |         |             |   | 6 | 233E |
|         |         |             |   | 7 | 3430 |
|         |         |             |   | 8 | 3460 |
|         |         |             |   |   | 4220 |
|         |         |             |   |   | 422E |
|         |         |             |   |   | 4330 |
|         |         |             |   |   | 433E |

----- = Enter the stroke in mm

Ø 63

| Drive   | Version | Screw pitch |   |   |      |
|---------|---------|-------------|---|---|------|
| 371063_ |         |             | 2 | 1 | 1450 |
|         |         |             | 4 | 2 | 2330 |
|         |         |             | 7 | 3 | 233E |
|         |         |             |   | 4 | 3450 |
|         |         |             |   | 5 | 3460 |
|         |         |             |   | 6 | 4330 |
|         |         |             |   | 7 | 433E |
|         |         |             |   | 8 |      |

----- = Enter the stroke in mm

Ø 63 HD

| Drive   | Version | Screw pitch |   |   |      |
|---------|---------|-------------|---|---|------|
| 371H63_ |         |             | 2 | 1 | 1450 |
|         |         |             | 4 | 2 | 1470 |
|         |         |             |   | 5 | 2330 |
|         |         |             |   | 6 | 233E |
|         |         |             |   |   | 2540 |
|         |         |             |   |   | 264E |
|         |         |             |   |   | 3450 |
|         |         |             |   |   | 3460 |
|         |         |             |   |   | 3470 |
|         |         |             |   |   | 4330 |
|         |         |             |   |   | 433E |
|         |         |             |   |   | 4540 |
|         |         |             |   |   | 464E |
|         |         |             | 3 |   | 1450 |
|         |         |             | 4 |   | 2330 |
|         |         |             | 7 |   | 233E |
|         |         |             | 8 |   | 2540 |
|         |         |             |   |   | 264E |
|         |         |             |   |   | 3450 |
|         |         |             |   |   | 3460 |
|         |         |             |   |   | 3470 |
|         |         |             |   |   | 4330 |
|         |         |             |   |   | 433E |
|         |         |             |   |   | 4540 |
|         |         |             |   |   | 464E |

----- = Enter the stroke in mm

Ø 80

| Drive   | Version | Screw pitch |   |   |      | Transmission ratio * |
|---------|---------|-------------|---|---|------|----------------------|
| 371080_ |         |             | 2 | 3 | 1890 | 1                    |
|         |         |             |   | 4 | 2540 | 1                    |
|         |         |             |   |   | 264E | 1                    |
|         |         |             |   |   | 4540 | 1                    |
|         |         |             |   |   | 464E | 1                    |
|         |         |             | 7 |   | 1890 | 1                    |
|         |         |             | 8 |   | 2540 | 4/5                  |
|         |         |             |   |   | 264E | 4/5                  |
|         |         |             |   |   | 4540 | 4/5                  |
|         |         |             |   |   | 464E | 4/5                  |
|         |         |             | 4 | 3 | 1890 | 1                    |
|         |         |             | 8 | 4 | 2540 | 1                    |
|         |         |             |   |   | 264E | 1                    |
|         |         |             |   |   | 2770 | 1                    |
|         |         |             |   |   | 4540 | 1                    |
|         |         |             |   |   | 464E | 1                    |
|         |         |             |   |   | 4770 | 1                    |
|         |         |             | 7 |   | 1890 | 1                    |
|         |         |             | 8 |   | 2540 | 4/5                  |
|         |         |             |   |   | 264E | 4/5                  |
|         |         |             |   |   | 2770 | 2/3                  |
|         |         |             |   |   | 4540 | 4/5                  |
|         |         |             |   |   | 464E | 4/5                  |
|         |         |             |   |   | 4770 | 2/3                  |

----- = Enter the stroke in mm

Ø 100

| Drive   | Version | Screw pitch |   |   |      | Transmission ratio * |
|---------|---------|-------------|---|---|------|----------------------|
| 371100_ |         |             | 4 | 3 | 1890 | 1                    |
|         |         |             | 9 | 4 | 2770 | 1                    |
|         |         |             |   |   | 4770 | 1                    |
|         |         |             |   |   | 6770 | 1/3                  |
|         |         |             |   |   | 7770 | 1/3                  |
|         |         |             | 7 |   | 1890 | 1                    |
|         |         |             | 8 |   | 2770 | 1/2                  |
|         |         |             |   |   | 4770 | 1/2                  |

----- = Enter the stroke in mm

Ø 100 HD

| Drive   | Version | Screw pitch |   |   |      | Transmission ratio * |
|---------|---------|-------------|---|---|------|----------------------|
| 371HA1_ |         |             | 4 | 3 | 2770 | 1                    |
|         |         |             |   | 4 | 4770 | 1                    |
|         |         |             |   |   | 6770 | 1/3                  |
|         |         |             |   |   | 7770 | 1/3                  |
|         |         |             | 7 |   | 2770 | 1/2                  |
|         |         |             | 8 |   | 4770 | 1/2                  |
|         |         |             |   |   | 6770 | 1/3                  |
|         |         |             |   |   | 7770 | 1/3                  |

----- = Enter the stroke in mm

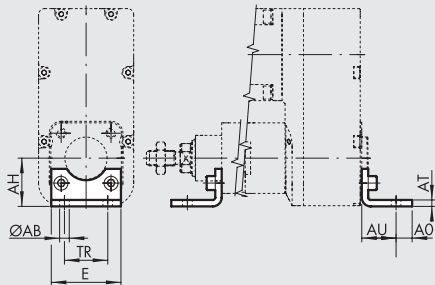
\* For sizes Ø80, Ø100 and Ø100 HD the standard transmission ratio depends on screw pitch, version and motorization. For the other sizes the standard transmission ratio is 1.

NOTES

## ACCESSORIES FOR ELECTRIC CYLINDER SERIES ELEKTRO ISO 15552

N.B.: Where specified, limit the maximum axial loads (F<sub>max</sub>) according to the electric cylinders

### FOOT - MODEL A



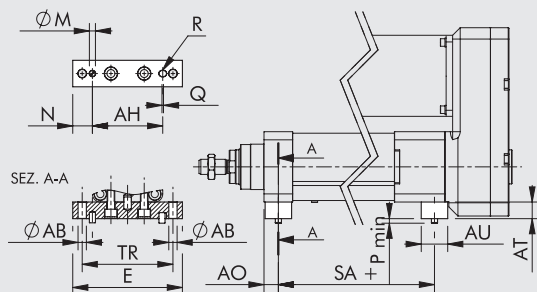
#### STEEL

| Code        | Ø      | Ø AB | AH    | AO | AT | AU | TR | E   | Weight [g] | F <sub>max</sub> [N] |
|-------------|--------|------|-------|----|----|----|----|-----|------------|----------------------|
| W0950322001 | 32     | 7    | 32    | 11 | 4  | 24 | 32 | 45  | 76         | 1600                 |
| W0950502001 | 50     | 9    | 45    | 15 | 5  | 32 | 45 | 65  | 162        | 4000                 |
| W0950632001 | 63     | 9    | 50    | 15 | 5  | 32 | 50 | 75  | 266        | 6000                 |
| W0950632001 | 63 HD  | 9    | 50    | 15 | 5  | 32 | 50 | 75  | 266        | 6000                 |
| W095E802001 | 80     | 12   | 68.5* | 20 | 6  | 41 | 63 | 95  | 414        | 10000                |
| W095EA12001 | 100    | 14   | 79*   | 25 | 6  | 41 | 75 | 115 | 518        | 16000                |
| W095EA12001 | 100 HD | 14   | 79*   | 25 | 6  | 41 | 75 | 115 | 518        | 16000                |

\* Dimensions not to ISO 15552

Note: Individually packed with 2 screws

### FOOT ON CYLINDER HEADS

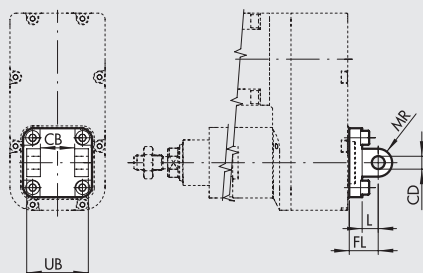


#### STEEL

| Code       | Ø      | Ø AB | AH  | AO | AT | AU | TR  | E   | ØM <sup>H7</sup> | N  | P | Q | R <sup>H7</sup> | SA    | Weight [g] | F <sub>max</sub> [N] |
|------------|--------|------|-----|----|----|----|-----|-----|------------------|----|---|---|-----------------|-------|------------|----------------------|
| 0950807042 | 80     | 11   | 93  | 19 | 22 | 35 | 120 | 145 | 8                | 26 | 6 | 2 | 8               | 215   | 770        | 10000                |
| 0951007042 | 100    | 13   | 111 | 19 | 24 | 35 | 140 | 165 | 8                | 27 | 6 | 2 | 8               | 232.5 | 945        | 16000                |
| 0951007042 | 100 HD | 13   | 111 | 19 | 24 | 35 | 140 | 165 | 8                | 27 | 6 | 2 | 8               | 241.5 | 945        | 16000                |

Note: Individually packed with 2 screws, 3 pins

### FEMALE HINGE - MODEL B



#### ALUMINIUM

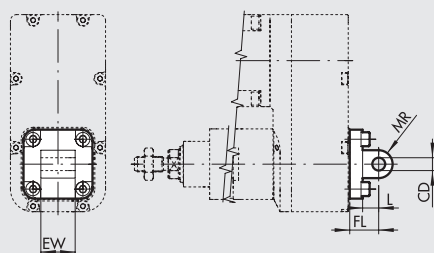
| Code        | Ø     | UB | CB <sup>H14</sup> | FL | CD <sup>H9</sup> | MR | L  | Weight [g] | F <sub>max</sub> [N] |
|-------------|-------|----|-------------------|----|------------------|----|----|------------|----------------------|
| W0950322003 | 32    | 45 | 26                | 22 | 10               | 10 | 12 | 116        | 800                  |
| W0950502003 | 50    | 60 | 32                | 27 | 12               | 12 | 15 | 252        | 2000                 |
| W0950632003 | 63    | 70 | 40                | 32 | 16               | 16 | 20 | 394        | 3000                 |
| W0950632003 | 63 HD | 70 | 40                | 32 | 16               | 16 | 20 | 394        | 3000                 |

#### STEEL

| Code        | Ø      | UB  | CB <sup>H14</sup> | FL | CD <sup>H9</sup> | MR | L  | Weight [g] | F <sub>max</sub> [N] |
|-------------|--------|-----|-------------------|----|------------------|----|----|------------|----------------------|
| W095E322003 | 32     | 45  | 26                | 22 | 10               | 10 | 13 | 348        | 1600                 |
| W095E502003 | 50     | 60  | 32                | 27 | 12               | 12 | 16 | 756        | 4000                 |
| W095E632003 | 63     | 70  | 40                | 32 | 16               | 15 | 22 | 1182       | 6000                 |
| W095E632003 | 63 HD  | 70  | 40                | 32 | 16               | 15 | 22 | 1182       | 6000                 |
| W095E802003 | 80     | 90  | 50                | 36 | 16               | 16 | 22 | 2010       | 10000                |
| W095EA12003 | 100    | 110 | 60                | 41 | 20               | 20 | 27 | 3255       | 16000                |
| W095EA12003 | 100 HD | 110 | 60                | 41 | 20               | 20 | 27 | 3255       | 16000                |

Note: Supplied with 4 screws, 4 washers, 2 snap-rings, 1 pin

### MALE HINGE - MODEL BA



#### ALUMINIUM

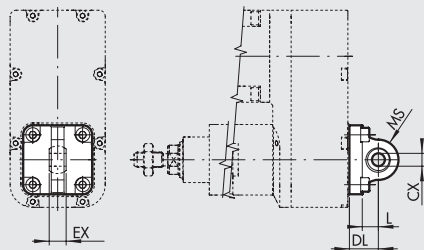
| Code        | Ø     | EW | FL | MR | CD <sup>H9</sup> | L  | Weight [g] | F <sub>max</sub> [N] |
|-------------|-------|----|----|----|------------------|----|------------|----------------------|
| W0950322004 | 32    | 26 | 22 | 10 | 10               | 13 | 94         | 800                  |
| W0950502004 | 50    | 32 | 27 | 12 | 12               | 16 | 220        | 2000                 |
| W0950632004 | 63    | 40 | 32 | 16 | 16               | 22 | 316        | 3000                 |
| W0950632004 | 63 HD | 40 | 32 | 16 | 16               | 22 | 316        | 3000                 |

#### STEEL

| Code        | Ø      | EW | FL | MR | CD <sup>H9</sup> | L  | Weight [g] | F <sub>max</sub> [N] |
|-------------|--------|----|----|----|------------------|----|------------|----------------------|
| W095E322004 | 32     | 26 | 22 | 10 | 10               | 13 | 282        | 1600                 |
| W095E502004 | 50     | 32 | 27 | 12 | 12               | 16 | 660        | 4000                 |
| W095E632004 | 63     | 40 | 32 | 16 | 16               | 22 | 948        | 6000                 |
| W095E632004 | 63 HD  | 40 | 32 | 16 | 16               | 22 | 948        | 6000                 |
| W095E802004 | 80     | 50 | 36 | 16 | 16               | 22 | 1734       | 10000                |
| W095EA12004 | 100    | 60 | 41 | 20 | 20               | 27 | 2550       | 16000                |
| W095EA12004 | 100 HD | 60 | 41 | 20 | 20               | 27 | 2550       | 16000                |

Note: Supplied with 4 screws.

### ARTICULATED MALE HINGE - MODEL BAS



#### ALUMINIUM

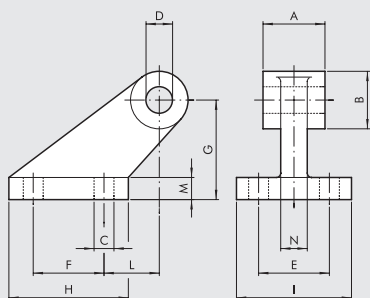
| Code        | Ø     | DL | MS | L  | CX <sup>HP</sup> | EX | Weight [g] | Fmax [N] |
|-------------|-------|----|----|----|------------------|----|------------|----------|
| W0950322006 | 32    | 22 | 16 | 12 | 10               | 14 | 106        | 800      |
| W0950502006 | 50    | 27 | 21 | 15 | 12               | 16 | 236        | 2000     |
| W0950632006 | 63    | 32 | 23 | 20 | 16               | 21 | 336        | 3000     |
| W0950632006 | 63 HD | 32 | 23 | 20 | 16               | 21 | 336        | 3000     |

#### STEEL

| Code        | Ø      | DL | MS | L  | CX <sup>HP</sup> | EX | Weight [g] | Fmax [N] |
|-------------|--------|----|----|----|------------------|----|------------|----------|
| W095E322006 | 32     | 22 | 15 | 14 | 10               | 14 | 318        | 1600     |
| W095E502006 | 50     | 27 | 20 | 17 | 16               | 21 | 708        | 4000     |
| W095E632006 | 63     | 32 | 23 | 22 | 16               | 21 | 1008       | 6000     |
| W095E632006 | 63 HD  | 32 | 23 | 22 | 16               | 21 | 1008       | 6000     |
| W095E802006 | 80     | 36 | 27 | 23 | 20               | 25 | 1716       | 10000    |
| W095EA12006 | 100    | 41 | 30 | 28 | 20               | 25 | 2520       | 16000    |
| W095EA12006 | 100 HD | 41 | 30 | 28 | 20               | 25 | 2520       | 16000    |

Note: Supplied with 4 screws, 4 washers

### CETOP HINGE FOR MODEL B - MODEL GL

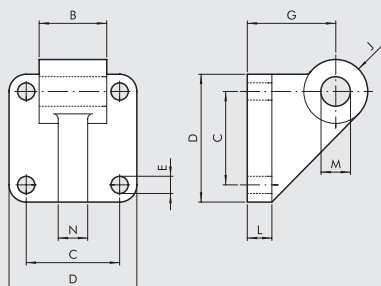


#### ALUMINIUM

| Code        | Ø     | A  | B  | C  | D  | E  | F  | G  | H  | I  | L  | M  | N  | Weight [g] | Fmax [N] |
|-------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|------------|----------|
| W0950322008 | 32    | 26 | 19 | 7  | 10 | 25 | 20 | 32 | 37 | 41 | 18 | 8  | 10 | 96         | 800      |
| W0950502008 | 50    | 32 | 26 | 9  | 12 | 32 | 32 | 45 | 54 | 52 | 25 | 10 | 12 | 212        | 2000     |
| W0950632008 | 63    | 40 | 33 | 11 | 16 | 40 | 50 | 63 | 75 | 63 | 32 | 12 | 15 | 440        | 3000     |
| W0950632008 | 63 HD | 40 | 33 | 11 | 16 | 40 | 50 | 63 | 75 | 63 | 32 | 12 | 15 | 440        | 3000     |

Note: Supplied with 4 screws, 4 washers

### COUNTER-HINGE FOR MODEL B - MODEL GS

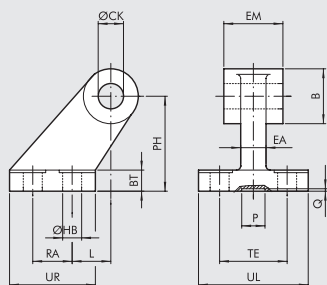


#### ALUMINIUM

| Code        | Ø     | B  | C    | D  | E | G  | J  | L  | M  | N  | Weight [g] | Fmax [N] |
|-------------|-------|----|------|----|---|----|----|----|----|----|------------|----------|
| W0950322108 | 32    | 26 | 32.5 | 45 | 7 | 32 | 11 | 10 | 10 | 10 | 106        | 800      |
| W0950502108 | 50    | 32 | 46.5 | 65 | 9 | 45 | 13 | 12 | 12 | 12 | 252        | 2000     |
| W0950632108 | 63    | 40 | 56.5 | 75 | 9 | 50 | 17 | 12 | 16 | 15 | 350        | 3000     |
| W0950632108 | 63 HD | 40 | 56.5 | 75 | 9 | 50 | 17 | 12 | 16 | 15 | 350        | 3000     |

Note: Supplied with 4 screws, 4 washers

### ISO 15552 COUNTER-HINGE FOR MODEL B - MODEL AB7



#### ALUMINIUM

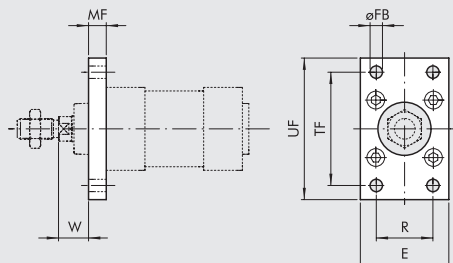
| Code        | Ø     | EM | B  | ØHB | ØCK | TE | RA | PH | UR | UL | L | BT | EA   | P  | Q | Weight [g] | Fmax [N] |
|-------------|-------|----|----|-----|-----|----|----|----|----|----|---|----|------|----|---|------------|----------|
| W0950322017 | 32    | 26 | 20 | 6.6 | 10  | 38 | 18 | 32 | 31 | 51 | 3 | 8  | 10   | 21 | 3 | 60         | 800      |
| W0950502017 | 50    | 32 | 26 | 9   | 12  | 50 | 30 | 45 | 45 | 65 | 3 | 12 | 13.5 | 30 | 5 | 162        | 2000     |
| W0950632017 | 63    | 40 | 30 | 9   | 16  | 52 | 35 | 50 | 50 | 67 | 2 | 14 | 16   | 21 | 3 | 191        | 3000     |
| W0950632017 | 63 HD | 40 | 30 | 9   | 16  | 52 | 35 | 50 | 50 | 67 | 2 | 14 | 16   | 21 | 3 | 191        | 3000     |

#### STEEL

| Code        | Ø      | EM | B  | ØHB | ØCK | TE | RA | PH | UR | UL | L | BT | EA   | P  | Q | Weight [g] | Fmax [N] |
|-------------|--------|----|----|-----|-----|----|----|----|----|----|---|----|------|----|---|------------|----------|
| W095E322017 | 32     | 26 | 20 | 6.6 | 10  | 38 | 18 | 32 | 31 | 51 | 3 | 8  | 8.5  | 20 | 5 | 180        | 1600     |
| W095E502017 | 50     | 32 | 26 | 9   | 12  | 50 | 30 | 45 | 45 | 65 | 3 | 12 | 13.5 | 30 | 5 | 486        | 4000     |
| W095E632017 | 63     | 40 | 30 | 9   | 16  | 52 | 35 | 50 | 50 | 67 | 2 | 12 | 13.5 | 35 | 5 | 573        | 6000     |
| W095E632017 | 63 HD  | 40 | 30 | 9   | 16  | 52 | 35 | 50 | 50 | 67 | 2 | 12 | 13.5 | 35 | 5 | 573        | 6000     |
| W095E802017 | 80     | 50 | 30 | 11  | 16  | 66 | 40 | 63 | 60 | 86 | 7 | 14 | 15   | 45 | 5 | 996        | 10000    |
| W095EA12017 | 100    | 60 | 38 | 11  | 20  | 76 | 50 | 71 | 70 | 96 | 5 | 15 | 15   | 55 | 5 | 1566       | 16000    |
| W095EA12017 | 100 HD | 60 | 38 | 11  | 20  | 76 | 50 | 71 | 70 | 96 | 5 | 15 | 15   | 55 | 5 | 1566       | 16000    |

\* Dimensions not to ISO 15552

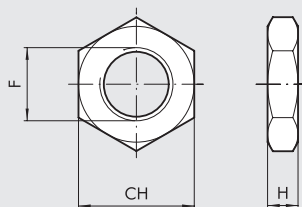
## FRONT FLANGE - MODEL C



| Code        | Ø     | TF  | UF  | E  | MF | R  | øFB | W  | Weight [g] | Fmax [N] |
|-------------|-------|-----|-----|----|----|----|-----|----|------------|----------|
| W0950322002 | 32    | 64  | 80  | 50 | 10 | 32 | 7   | 16 | 246        | 1600     |
| W0950502002 | 50    | 90  | 110 | 65 | 12 | 45 | 9   | 25 | 522        | 5000     |
| W0950632002 | 63    | 100 | 120 | 75 | 12 | 50 | 9   | 25 | 670        | 7000     |
| W0950632002 | 63 HD | 100 | 120 | 75 | 12 | 50 | 9   | 25 | 670        | 7000     |

Note: Supplied with 4 screws

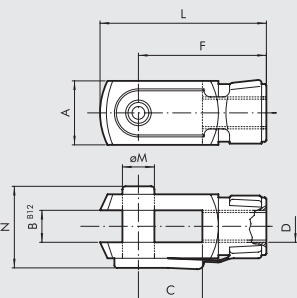
## ROD NUT - MODEL S



| Code       | Ø      | F        | H | CH | Weight [g] |
|------------|--------|----------|---|----|------------|
| 0950322010 | 32     | M10x1.25 | 6 | 17 | 6          |
| 0950502010 | 50     | M16x1.5  | 8 | 24 | 20         |
| 0950502010 | 63     | M16x1.5  | 8 | 24 | 20         |
| 0950502010 | 63 HD  | M16x1.5  | 8 | 24 | 20         |
| 0950802010 | 80     | M20x1.5  | 9 | 30 | 32         |
| 0950802010 | 100    | M20x1.5  | 9 | 30 | 32         |
| 0950802010 | 100 HD | M20x1.5  | 9 | 30 | 32         |

Note: Individually packed

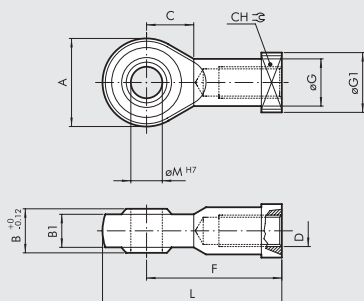
## FORK MODEL GK-M



| Code        | Ø      | øM | C  | B  | A  | L   | F  | D        | N  | Weight [g] |
|-------------|--------|----|----|----|----|-----|----|----------|----|------------|
| W0950322020 | 32     | 10 | 20 | 10 | 20 | 52  | 40 | M10x1.25 | 26 | 92         |
| W0950502020 | 50     | 16 | 32 | 16 | 32 | 83  | 64 | M16x1.5  | 40 | 340        |
| W0950502020 | 63     | 16 | 32 | 16 | 32 | 83  | 64 | M16x1.5  | 40 | 340        |
| W0950502020 | 63 HD  | 16 | 32 | 16 | 32 | 83  | 64 | M16x1.5  | 40 | 340        |
| W0950802020 | 80     | 20 | 40 | 20 | 40 | 105 | 80 | M20x1.5  | 40 | 690        |
| W0950802020 | 100    | 20 | 40 | 20 | 40 | 105 | 80 | M20x1.5  | 48 | 690        |
| W0950802020 | 100 HD | 20 | 40 | 20 | 40 | 105 | 80 | M20x1.5  | 48 | 690        |

Note: Individually packed

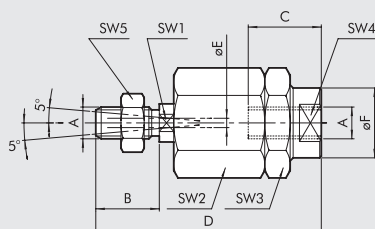
## ROD EYE - MODEL GA-M



| Code        | Ø      | øM | C  | B1   | B  | A  | L   | F  | D        | øG   | CH | øG1 | Weight [g] |
|-------------|--------|----|----|------|----|----|-----|----|----------|------|----|-----|------------|
| W0950322025 | 32     | 10 | 15 | 10.5 | 14 | 28 | 57  | 43 | M10x1.25 | 15   | 17 | 19  | 78         |
| W0950502025 | 50     | 16 | 22 | 15   | 21 | 42 | 85  | 64 | M16x1.5  | 22   | 22 | 22  | 226        |
| W0950502025 | 63     | 16 | 22 | 15   | 21 | 42 | 85  | 64 | M16x1.5  | 22   | 22 | 22  | 226        |
| W0950502025 | 63 HD  | 16 | 22 | 15   | 21 | 42 | 85  | 64 | M16x1.5  | 22   | 22 | 22  | 226        |
| W0950802025 | 80     | 20 | 26 | 18   | 25 | 50 | 102 | 77 | M20x1.5  | 27.5 | 30 | 27  | 404        |
| W0950802025 | 100    | 20 | 26 | 18   | 25 | 50 | 102 | 77 | M20x1.5  | 27.5 | 30 | 27  | 404        |
| W0950802025 | 100 HD | 20 | 26 | 18   | 25 | 50 | 102 | 77 | M20x1.5  | 27.5 | 30 | 27  | 404        |

Note: Individually packed

## SELF ALIGNING ROD COUPLER - MODEL GA-K

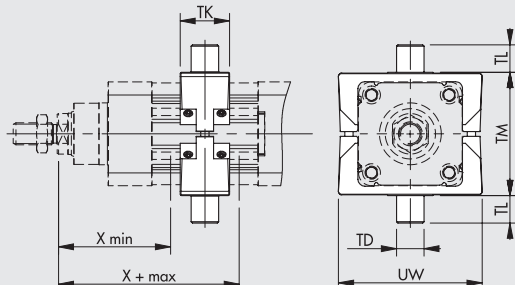


| Code        | Ø      | A        | B  | C  | D   | øF | øE | SW1 | SW2 | SW3 | SW4 | SW5 | Weight [g] |
|-------------|--------|----------|----|----|-----|----|----|-----|-----|-----|-----|-----|------------|
| W0950322030 | 32     | M10x1.25 | 20 | 20 | 71  | 22 | 4  | 12  | 30  | 30  | 19  | 17  | 216        |
| W0950502030 | 50     | M16x1.5  | 32 | 32 | 103 | 32 | 4  | 20  | 41  | 41  | 30  | 24  | 620        |
| W0950502030 | 63     | M16x1.5  | 32 | 32 | 103 | 32 | 4  | 20  | 41  | 41  | 30  | 24  | 620        |
| W0950502030 | 63 HD  | M16x1.5  | 32 | 32 | 103 | 32 | 4  | 20  | 41  | 41  | 30  | 24  | 620        |
| W0950802030 | 80     | M20x1.5  | 40 | 40 | 119 | 32 | 4  | 20  | 41  | 41  | 30  | 30  | 680        |
| W0950802030 | 100    | M20x1.5  | 40 | 40 | 119 | 32 | 4  | 20  | 41  | 41  | 30  | 30  | 680        |
| W0950802030 | 100 HD | M20x1.5  | 40 | 40 | 119 | 32 | 4  | 20  | 41  | 41  | 30  | 30  | 680        |

Note: Individually packed

## INTERMEDIATE HINGE - MODEL EN

+ = ADD THE STROKE



### STEEL

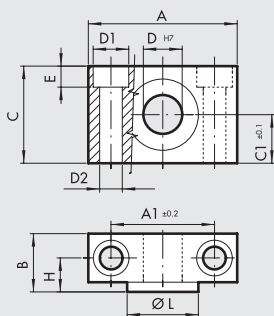
| Code       | Ø     | X <sub>(min)</sub> | X <sub>(max)</sub> |        | TM | TL | TD <sub>e9</sub> | TK | UW  | Weight [g] | F <sub>max</sub> [N] | T [Nm] | ◆ |
|------------|-------|--------------------|--------------------|--------|----|----|------------------|----|-----|------------|----------------------|--------|---|
|            |       |                    | IN LINE            | GEARED |    |    |                  |    |     |            |                      |        |   |
| 0950322107 | 32    | 63                 | 123                | *      | 50 | 12 | 12               | 22 | 65  | 170        | 500                  | 2      |   |
| 0950502107 | 50    | 83                 | 148                | *      | 75 | 16 | 16               | 28 | 95  | 595        | 1200                 | 6      |   |
| 0950632107 | 63    | 88                 | 163                | *      | 90 | 20 | 20               | 36 | 105 | 960        | 2000                 | 10     |   |
| 0950632107 | 63 HD | 88                 | 163                | *      | 90 | 20 | 20               | 36 | 105 | 960        | 2000                 | 10     |   |

\* Depending on motor length

◆ Recommended tightening torque of grub screws

Note: Supplied with 8 grub screws, 2 pins

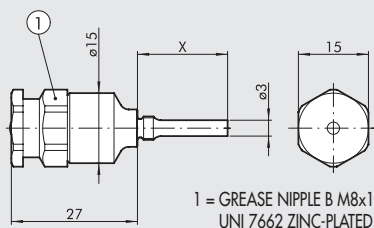
## COUNTER-HINGE FOR MODEL EN - MODEL EL



| Code        | Ø     | A  | A <sub>1</sub> | B  | C  | C <sub>1</sub> | D <sub>1</sub> | D <sub>2</sub> | D  | E    | H    | ØL | Weight [g] |
|-------------|-------|----|----------------|----|----|----------------|----------------|----------------|----|------|------|----|------------|
| W0950322009 | 32    | 46 | 32             | 18 | 30 | 15             | 11             | 7              | 12 | 6.5  | 10.5 | 22 | 162        |
| W0950402009 | 50    | 55 | 36             | 21 | 36 | 18             | 15             | 9              | 16 | 8.5  | 12   | 28 | 278        |
| W0950632009 | 63    | 65 | 42             | 23 | 40 | 20             | 18             | 11             | 20 | 10.5 | 13   | 35 | 414        |
| W0950632009 | 63 HD | 65 | 42             | 23 | 40 | 20             | 18             | 11             | 20 | 10.5 | 13   | 35 | 414        |

Note: 2-pieces pack with 4 screws

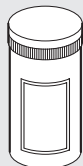
## GREASING NEEDLE



| Code       | Ø   | Pitch | X    |
|------------|-----|-------|------|
| 0950327108 | 32  | -     | 12   |
| 0950507108 | 50  | -     | 19.3 |
| 0950637108 | 63  | -     | 23.6 |
| 0950637108 | 80  | -     | 23.6 |
| 0950637108 | 100 | 10    | 23.6 |
| 0951007108 | 100 | 40    | 28.6 |

Note: Individually packed

## GREASE

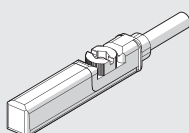


| Code    | Description                  | Weight [g] |
|---------|------------------------------|------------|
| 9910506 | Grease pipe RHEOLUBE 363 AX1 | 400        |

## RETRACTABLE SENSOR

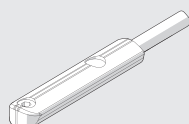
### SENSOR, SQUARE TYPE

Latest generation,  
secure fixing



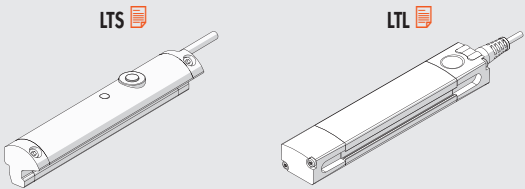
### SENSOR, OVAL TYPE

Traditional



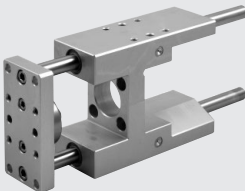
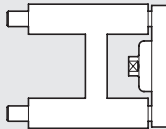
For codes and technical data, see **chapter A6**.

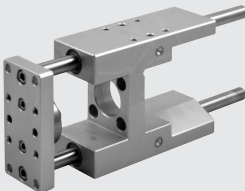
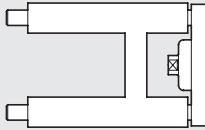
POSITION SENSORS



For technical data and usage strokes see chapter A6.

GUIDE UNIT

| Version                                                                            |                                                                                                                       | Code                                                                         | Bore | Type              |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------|-------------------|
|  | Sliding on bronze bushings (GDH)<br> | W0700322...                                                                  | 32*  | UNIT MW DH 032... |
|                                                                                    |                                                                                                                       | W0700502...                                                                  | 50   | UNIT MW DH 050... |
|                                                                                    |                                                                                                                       | W0700632...                                                                  | 63   | UNIT MW DH 063... |
|                                                                                    |                                                                                                                       | W070E802...                                                                  | 80   | UNIT MW DH 080... |
|                                                                                    |                                                                                                                       | W070EA12...                                                                  | 100  | UNIT MW DH 100... |
|                                                                                    |                                                                                                                       | * Also available in V-Lock version (see <b>chapter A3</b> ).                 |      |                   |
|                                                                                    |                                                                                                                       | <b>Note: The guide units must only be used with anti-rotation cylinders.</b> |      |                   |
|                                                                                    |                                                                                                                       | To complete the type and code, add the 3-digit stroke (e.g. 50=050)          |      |                   |
|                                                                                    |                                                                                                                       | For technical data and dimensions, see <b>chapter A1</b> .                   |      |                   |

|                                                                                    |                                                                                                                      |                                                                              |     |                   |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----|-------------------|
|  | Sliding on ball bearing (GDM)<br> | W0700323...                                                                  | 32* | UNIT MW DM 032... |
|                                                                                    |                                                                                                                      | W0700503...                                                                  | 50  | UNIT MW DM 050... |
|                                                                                    |                                                                                                                      | W0700633...                                                                  | 63  | UNIT MW DM 063... |
|                                                                                    |                                                                                                                      | W070E803...                                                                  | 80  | UNIT MW DM 080... |
|                                                                                    |                                                                                                                      | W070EA13...                                                                  | 100 | UNIT MW DM 100... |
|                                                                                    |                                                                                                                      | * Also available in V-Lock version (see <b>chapter A3</b> ).                 |     |                   |
|                                                                                    |                                                                                                                      | <b>Note: The guide units must only be used with anti-rotation cylinders.</b> |     |                   |
|                                                                                    |                                                                                                                      | To complete the type and code, add the 3-digit stroke (e.g. 50=050)          |     |                   |
|                                                                                    |                                                                                                                      | For technical data and dimensions, see <b>chapter A1</b> .                   |     |                   |

DRIVES

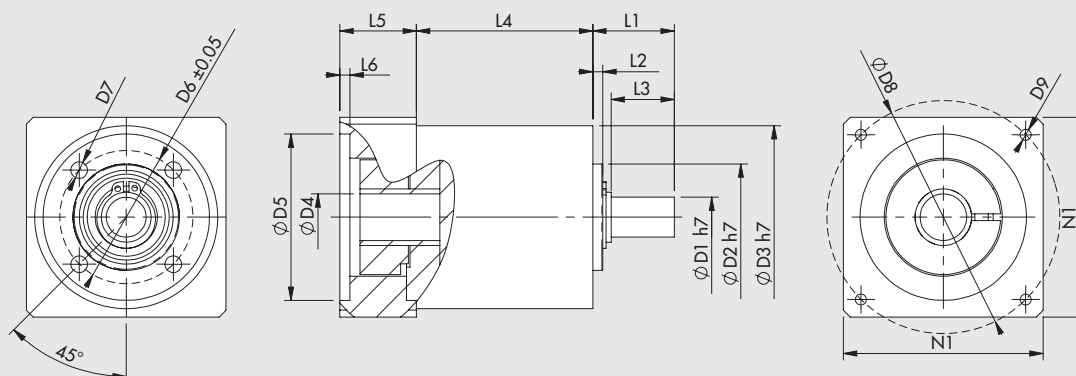


For motor-drive couplings see table on page A5.32

NOTES

## SPARE PARTS

## ELEKTRO ISO 15552 Ø 100 - Ø 100 HD GEARBOX



| Code       | Description          | Application                           | C <sub>OUT</sub><br>nominal<br>[Nm] | N <sub>IN</sub><br>nominal<br>[1/min] | J reduced<br>to motor<br>shaft<br>[kgmm <sup>2</sup> ] | Mass<br>[kg] | D1 | D2 | D3  | D4 | D5  | D6 | D7 | D8  | D9    | L1   | L2 | L3   | L4    | L5 | L6  | N1  |
|------------|----------------------|---------------------------------------|-------------------------------------|---------------------------------------|--------------------------------------------------------|--------------|----|----|-----|----|-----|----|----|-----|-------|------|----|------|-------|----|-----|-----|
| 37R0364000 | Gearbox<br>MP105 1:3 | Elektro ISO 15552<br>Ø 100 - Ø 100 HD | 100                                 | 2500                                  | 222                                                    | 6.5          | 25 | 70 | 106 | 24 | 110 | 85 | M8 | 145 | M8x20 | 57.5 | 5  | 50.5 | 107.5 | 48 | 6.5 | 120 |

C<sub>OUT</sub> = nominal output torqueN<sub>IN</sub> = nominal input speed

J = mass moment of inertia of the gearhead

## ELECTRIC MOTORS

For motor-drive couplings see table on page A5.32 

## NOTES