# ELECTROMECHANICAL CYLINDERS
## SERIES 6E

Sizes 32, 40, 50, 63, 80, 100





- In compliance with the ISO 15552 standard
- Multi-position system with transmission of the movement by means of a recirculating ball screw
- Possibility to connect the motor in line or parallel
- Large range of motor interfaces
- Permanent pre-lubrication (maintenance free)
- High positioning repeatability
- Reduced axial backlash
- Possibility to use magnetic sensors
- Integrated anti-rotation system of the rod
- IP65
- Wide range of fixing accessories



The Series 6E cylinders are mechanical linear actuators with rod, in which the rotary movement, generated by a motor, is converted into a linear movement by means of a recirculating ball screw. Available in 6 sizes, the Series 6E has dimensions based on the ISO 15552 standard and it is therefore possible to use the mounting accessories of the pneumatic cylinders.

The cylinders are equipped with a magnet that makes it possible to use external magnetic proximity switches (Series CST and CSH), allowing operations like homing or extra-stroke readings to be performed. The Series 6E is equipped with specific interface kits, which make it possible to connect the motor, both in line and parallel. High precision and easy mounting make the Series 6E the ideal solution for different applications, especially for multi-position systems.

## General Data

| | |
|---|---|
| **Construction** | Electromechanical cylinder with recirculating ball screw |
| **Design** | Profile with thread rolling screws based on the ISO 15552 standard |
| **Operation** | Multi-position actuator with high precision linear movement |
| **Sizes** | 32, 40, 50, 63, 80, 100 |
| **Strokes min - max** | 100 ÷ 1500 mm |
| **Anti-rotation function** | With anti-friction pads in technopolymer |
| **Mounting** | Front / rear flange, with feet, with front / rear / swivel trunnion |
| **Mounting motor** | In line and parallel |
| **Operating temperature** | 0°C ÷ 50°C |
| **Storage temperature** | -20°C ÷ 80°C |
| **Protection class** | IP40 / IP65 |
| **Lubrication** | Not necessary. A pre-lubrication is performed on the cylinder. |
| **Max. Reversing backlash** | 0,02 mm |
| **Repeatability [% FS]** | ± 0,02 |
| **Duty cycle** | 100% |
| **Max rotation play** | ± 0,4° |
| **Use with external sensors** | Nlots on three sides for sensors model CST |

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ELECTROMECHANICAL CYLINDERS
SERIES 6E - CODING EXAMPLE



## CODING EXAMPLE

| 6E | 032 | BS | 0200 | P05 | A | P |
|---|---|---|---|---|---|---|

| | |
|---|---|
| **6E** | SERIES |
| **032** | SIZE<br>032 = 32<br>040 = 40<br>050 = 50<br>063 = 63<br>080 = 80<br>100 = 100 |
| **BS** | TRANSMISSION<br>BS = recirculating ball screw |
| **0200** | STROKE<br>100 ÷ 1500 mm |
| **P05** | SCREW PITCH<br>P05 = 5 mm<br>P10 = 10 mm<br>P16 = 16 mm (for size 40 only)<br>P20 = 20 mm (for size 50, 80, 100 only)<br>P25 = 25 mm (for size 63 only)<br>P32 = 32 mm (for size 80 only)<br>P40 = 40 mm (for size 100 only) |
| **A** | CONSTRUCTION<br>A = standard with rod nut |
| **P** | VERSION<br>P = IP65<br>( _ _ _ ) = extended piston rod _ _ _ mm |

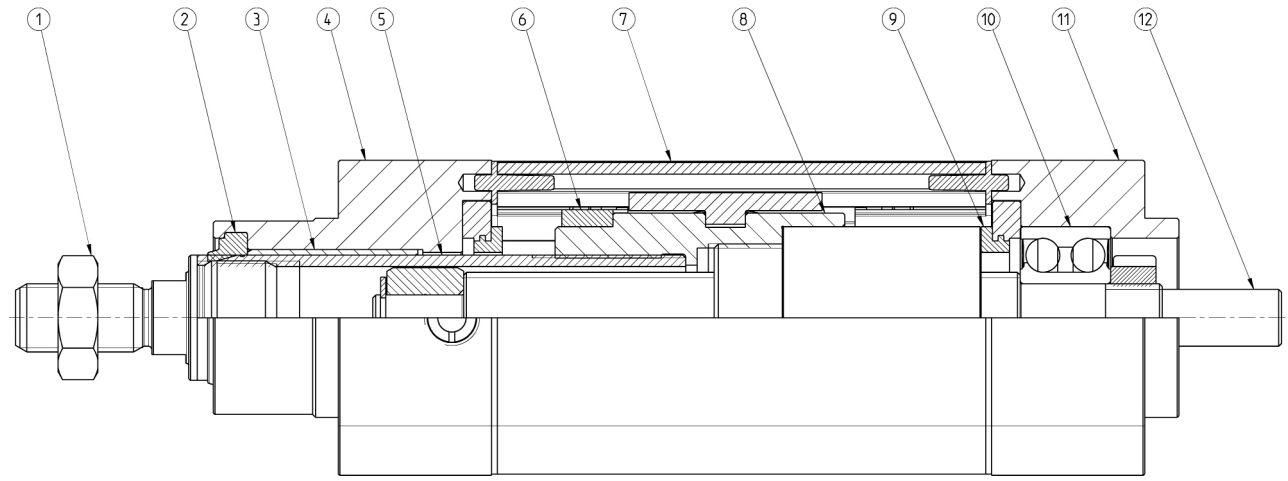
## MECHANICAL CHARACTERISTICS

| Size | | 32 | 32 | 40 | 40 | 40 | 50 | 50 | 50 | 63 | 63 | 63 | 80 | 80 | 80 | 80 | 100 | 100 | 100 | 100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BS screw pitch "P"** | [mm] | 5 | 10 | 5 | 10 | 16 | 5 | 10 | 20 | 5 | 10 | 25 | 5 | 10 | 20 | 32 | 5 | 10 | 20 | 40 |
| **Dynamic load coefficient "C"** | [N] | 6600 | 4400 | 12000 | 8500 | 9150 | 14900 | 11300 | 7800 | 17700 | 20500 | 11300 | 26300 | 52500 | 28200 | 26100 | 35100 | 55900 | 45300 | 55900 |
| **Average load[A]** | [N] | 525 | 440 | 950 | 850 | 1070 | 1180 | 1130 | 980 | 1405 | 2050 | 1535 | 2085 | 5250 | 3550 | 3845 | 2785 | 5590 | 5705 | 8875 |
| **Maximum force[B]** | [N] | 1075 | 1075 | 3360 | 3360 | 3360 | 5440 | 5440 | 5130 | 8400 | 8400 | 6187 | 12600 | 12600 | 12600 | 12600 | 18000 | 18000 | 18000 | 18000 |
| **Max applicable torque to screw's shaft** | [Nm] | 0,95 | 1,90 | 2,97 | 5,94 | 9,51 | 4,81 | 9,62 | 18,14 | 7,43 | 14,85 | 27,35 | 11,14 | 22,28 | 44,56 | 71,30 | 15,92 | 31,83 | 63,66 | 127,32 |
| **Max linear cylinder's speed[B]** | [m/s] | 0,56 | 1,12 | 0,42 | 0,84 | 1,33 | 0,33 | 0,67 | 1,33 | 0,27 | 0,53 | 1,33 | 0,23 | 0,47 | 0,94 | 1,5 | 0,19 | 0,38 | 0,75 | 1,05 |
| **Max rotational cylinder's speed** | [rpm] | 6670 | 6670 | 5000 | 5000 | 5000 | 4000 | 4000 | 4000 | 3200 | 3200 | 3200 | 2810 | 2810 | 2810 | 2810 | 2250 | 2250 | 2250 | 2250 |
| **Max cylinder's acceleration** | [m/s$^2$] | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| **Minimum stroke** | [mm] | 15 | 25 | 15 | 25 | 40 | 15 | 25 | 50 | 15 | 25 | 65 | 15 | 25 | 50 | 80 | 15 | 25 | 50 | 100 |
| **Maximum stroke** | [mm] | 500 | 500 | 700 | 700 | 700 | 1000 | 1000 | 1000 | 1200 | 1200 | 1200 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| **Mass of actuator, stroke zero** | [kg] | 1,18 | 1,18 | 1,40 | 1,40 | 1,40 | 2,28 | 2,28 | 2,28 | 3,5 | 3,5 | 3,5 | 6,44 | 6,44 | 6,44 | 6,44 | 10,73 | 10,73 | 10,73 | 10,73 |
| **Mass of actuator, variable with stroke** | [kg/mm] | 3,77E03 | 3,77E03 | 5,30E03 | 5,30E03 | 5,30E03 | 6,30E03 | 6,30E03 | 6,30E03 | 9,77E03 | 9,77E03 | 9,77E03 | 1,37E02 | 1,37E02 | 1,37E02 | 1,37E02 | 2,05E02 | 2,05E02 | 2,05E02 | 2,05E02 |
| **MOVING MASSES AND INERTIA** | | | | | | | | | | | | | | | | | | | | |
| **Inertia, stroke zero "$J_F$"** | [kg·cm$^2$] | 0,029 | 0,029 | 0,079 | 0,079 | 0,079 | 0,218 | 0,218 | 0,218 | 0,664 | 0,664 | 0,664 | 2,309 | 2,309 | 2,309 | 2,309 | 5,265 | 5,265 | 5,265 | 5,265 |
| **Inertia, variable with stroke "$K_V$"** | [kg·cm$^2$/ mm] | 2,00E04 | 2,00E04 | 5,00E04 | 5,00E04 | 5,00E04 | 1,20E03 | 1,20E03 | 1,20E03 | 3,00E03 | 3,00E03 | 3,00E03 | 8,10E03 | 8,10E03 | 8,10E03 | 8,10E03 | 1,98E02 | 1,98E02 | 1,98E02 | 1,98E02 |
| **Sliding mass, stroke zero "$m_{c1}$"** | [kg] | 0,15 | 0,15 | 0,43 | 0,43 | 0,43 | 0,70 | 0,70 | 0,70 | 1,07 | 1,07 | 1,07 | 2,25 | 2,25 | 2,25 | 2,25 | 3,94 | 3,94 | 3,94 | 3,94 |
| **Sliding mass, variable with stroke "$K_{IV}$"** | [kg/mm] | 7,90E04 | 7,90E04 | 9,88E04 | 9,88E04 | 9,88E04 | 1,14E03 | 1,14E03 | 1,14E03 | 1,38E03 | 1,38E03 | 1,38E03 | 1,88E03 | 1,88E03 | 1,88E03 | 1,88E03 | 2,37E03 | 2,37E03 | 2,37E03 | 2,37E03 |

[A]Value refers to a covered distance of 10000 Km (see the diagrams "Life of the cylinder according to the average axial force applied").
[B]The maximum speed and the maximum force of cylinder change according to its stroke (see the diagrams "maximum speed of cylinder according to its stroke" and "maximum force of cylinder according to its stroke").


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## Series 6E materials




| PARTS | MATERIALS |
|---|---|
| **1. Rod nut** | Zinc-plated steel |
| **2. Rod seal** | PU |
| **3. Bushing** | Technopolymer |
| **4. Front endcap** | Anodized aluminium alloy |
| **5. Rod** | Stainless steel |
| **6. Magnet** | Plastoferrite |
| **7. Extrusion profile** | Anodized aluminium alloy |
| **8. Guiding element BS screw** | Aluminium alloy |
| **9. End stroke seals** | NBR |
| **10. Bearing** | Steel |
| **11. Rear endcap** | Anodized aluminium alloy |
| **12. BS ball screw** | Steel |

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ELECTROMECHANICAL CYLINDERS
SERIES 6E - OVERVIEW ACCESSORIES



## ACCESSORIES FOR SERIES 6E CYLINDERS

**Piston rod socket joint Mod. GY**



**Piston rod lock nut Mod. U**



**Clevis pin Mod. S**



**Rear trunnion ball-joint Mod. R**



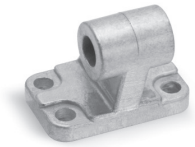
**Coupling piece Mod. GKF**



**Swivel ball joint Mod. GA**



**90° male trunnion Mod. ZC**



**Swivel Combination Mod. C+L+S**



**Front flange Mod. D-E**



**Self aligning rod Mod. GK**



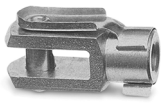
**Foot mount Mod. B**



**Rear female trunnion Mod. C and C-H**



**Rod fork end Mod. G**



**Rear trunnion male Mod. L**



**Side clamping bracket Mod. BG**



**Housing for axial connection Mod. CM**



**Flange for axial connection Mod. FM**



**Kit for axial connection Mod. AM**



**Kit for parallel connection Mod. PM**



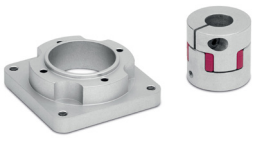
**Kit for axial connection Mod. AR**



**Cylinder bracket Mod. BA**



**Front spot faced trunnion Mod. FN**



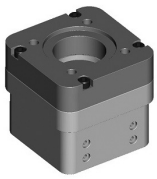
**Counter bracket for trunnion Mod. BF**

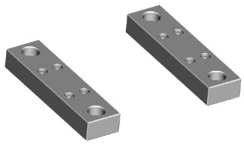


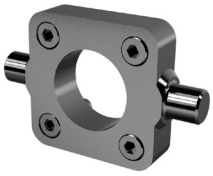
**Guides Mod. 45NHT**



**Nuts for slots**













All accessories are supplied separately, except for piston rod lock nut Mod. U



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## HOW TO CALCULATE THE LIFE OF THE CYLINDER

To perform a correct dimensioning of the Series 6E cylinder, you need to consider some facts.

Among these, the most important are:
- Dynamics of the system
- Operation and pause cyclicity
- Work environment
- General performance requirements: repeatability, accuracy, precision, etc.

CALCULATE THE LIFE IN ROTATIONS where:

$L_r$ = Life of the cylinder in number of rotations of the BS ball screw
C = Dynamic load coefficient of the cylinder [N]
$F_m$ = Average axial force applied [N]
$f_w$ = Safety coefficient according to the working conditions

$$L_r = \left(\frac{C}{F_m \cdot f_w}\right)^3 \cdot 10^6$$

CALCULATION OF LIFE IN km where:

$L_{km}$ = Life of the cyllinder in km [km]
p = pitch of the BS ball screw [mm]

$$L_{km} = \frac{L_r \cdot p}{10^6}$$

CALCULATION OF THE LIFE IN HOURS where:

$L_h$ = Life of the cylinder in hours
$n_m$ = average number of revolutions of the RDS ball screw [rpm]

$$L_h = \frac{L_r}{n_m \cdot 60}$$

| APPLICATION | ACCELERATION [m/s²] | SPEED [m/s] | DUTY CYCLE | $f_w$ COEFFICIENT |
|---|---|---|---|---|
| **light** | < 5,0 | < 0,5 | < 35% | 1,0 ÷ 1,25 |
| **normal** | 5,0 ÷ 15,0 | 0,5 ÷ 1,0 | 35% ÷ 65% | 1,25 ÷ 1,5 |
| **heavy** | > 15,0 | > 1,0 | > 65% | 1,5 ÷ 3,0 |

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## ANALYSIS OF THE DUTY CYCLE AND OF SYSTEM PAUSES

The analysis of the duty cycle and of the pauses of the system is essential to calculate the average Fm axial loads and the number of average revolutions nm that act on the cylinder.
Normally, the duty cycle is composed by phases and for each single phase, we can have an acceleration, constant speed or deceleration.

$F_m$ = CALCULATION OF THE AVERAGE AXIAL FORCE
$n_m$ = CALCULATION OF THE AVERAGE NUMBER OF REVOLUTIONS

$$F_m = \sqrt[3]{\frac{(F_{a1}{}^3 \cdot n_{a1} \cdot t_{a1}) + (F_{vc1}{}^3 \cdot n_{vc1} \cdot t_{vc1}) + (F_{d1}{}^3 \cdot n_{d1} \cdot t_{d1}) + \ ... + \ (F_{an}{}^3 \cdot n_{an} \cdot t_{an}) + (F_{vcn}{}^3 \cdot n_{vcn} \cdot t_{vcn}) + (F_{dn}{}^3 \cdot n_{dn} \cdot t_{dn})}{(n_{a1} \cdot t_{a1}) + (n_{vc1} \cdot t_{vc1}) + (n_{d1} \cdot t_{d1}) + \ ... + \ (n_{an} \cdot t_{an}) + (n_{vcn} \cdot t_{vcn}) + (n_{dn} \cdot t_{dn})}}$$

$$n_m = \left\{\frac{(n_{a1} \cdot t_{a1}) + (n_{vc1} \cdot t_{vc1}) + (n_{d1} \cdot t_{d1}) + \ ... + \ (n_{an} \cdot t_{an}) + (n_{vcn} \cdot t_{vcn}) + (n_{dn} \cdot t_{dn})}{t_{a1} + t_{vc1} + t_{d1} + \ ... + \ t_{an} + t_{vcn} + t_{dn}}\right\}$$

The table shown below reports the values of acceleration, speed and deceleration for each phase.

| | | F [N] | n [rpm] | Time % |
|---|---|---|---|---|
| **PHASE 1** | Acceleration | Fa1 | na1 | ta1 |
| | Constant speed | Fvc1 | nvc1 | tvc1 |
| | Deceleration | Fd1 | nd1 | td1 |
| **PHASE 2** | Acceleration | Fa2 | na2 | ta2 |
| | Constant speed | Fvc2 | nvc2 | tvc2 |
| | Deceleration | Fd2 | nd2 | td2 |
| **PHASE "n -1"** | Acceleration | Fan-1 | nan-1 | tan-1 |
| | Constant speed | Fvcn-1 | nvcn-1 | tvcn-1 |
| | Deceleration | Fdn-1 | ndn-1 | tdn-1 |
| **PHASE "n"** | Acceleration | Fan | nan-1 | tan-1 |
| | Constant speed | Fvcn | nvcn-1 | tvcn-1 |
| | Deceleration | Fdn | ndn-1 | tdn-1 |
| | TOTAL | | | 100% |

## APPLICATION EXAMPLE

phase 1

$F_{a1} = 142\ N;$ $F_{vc1} = 98\ N;$ $F_{d1} = 54\ N;$
$n_{a1} = 630\ rpm;$ $n_{vc1} = 1260\ rpm;$ $n_{d1} = 630\ rpm;$
$t_{a1} = 0{,}7\ \%;$ $t_{vc1} = 12{,}9\ \%;$ $t_{d1} = 0{,}7\ \%;$

phase 2

$F_{a2} = 616\ N;$ $F_{vc2} = 589\ N;$ $F_{d2} = 562\ N;$
$n_{a2} = 450\ rpm;$ $n_{vc2} = 900\ rpm;$ $n_{d2} = 450\ rpm;$
$t_{a2} = 4{,}8\ \%;$ $t_{vc2} = 33{,}3\ \%;$ $t_{d2} = 4{,}8\ \%;$

phase 3

$F_{a3} = 997\ N;$ $F_{vc3} = 981\ N;$ $F_{d3} = 965\ N;$
$n_{a3} = 240\ rpm;$ $n_{vc3} = 480\ rpm;$ $n_{d3} = 240\ rpm;$
$t_{a3} = 7{,}1\ \%;$ $t_{vc3} = 28{,}6\ \%;$ $t_{d3} = 7{,}1\ \%;$

in this way it is possible to determine:

$K_1 = (F_{a1}^3 \cdot n_{a1} \cdot t_{a1}) + (F_{vc1}^3 \cdot n_{vc1} \cdot t_{vc1}) + (F_{d1}^3 \cdot n_{d1} \cdot t_{d1})$
$K_2 = (F_{a2}^3 \cdot n_{a2} \cdot t_{a2}) + (F_{vc2}^3 \cdot n_{vc2} \cdot t_{vc2}) + (F_{d2}^3 \cdot n_{d2} \cdot t_{d2})$
$K_3 = (F_{a3}^3 \cdot n_{a3} \cdot t_{a3}) + (F_{vc3}^3 \cdot n_{vc3} \cdot t_{vc3}) + (F_{d3}^3 \cdot n_{d3} \cdot t_{d3})$

$n_1 = (n_{a1} \cdot t_{a1}) + (n_{vc1} \cdot t_{vc1}) + (n_{d1} \cdot t_{d1})$
$n_2 = (n_{a2} \cdot t_{a2}) + (n_{vc2} \cdot t_{vc2}) + (n_{d3} \cdot t_{d3})$
$n_3 = (n_{a3} \cdot t_{a3}) + (n_{vc3} \cdot t_{vc3}) + (n_{d3} \cdot t_{d3})$

$T_1 = t_{a1} + t_{vc1} + t_{d1}$
$T_2 = t_{a2} + t_{vc2} + t_{d2}$
$T_3 = t_{a3} + t_{vc3} + t_{d3}$

concluding, we know that:

$$F_m = \sqrt[3]{\frac{(K_1 + K_2 + K_3)}{(n_1 + n_2 + n_3)}} = 596{,}64\ N$$

$$n_m = \frac{n_1 + n_2 + n_3}{T_1 + T_2 + T_3} = 685{,}7\ rpm$$

| | | F [N] | n [rpm] | Time % |
|---|---|---|---|---|
| **PHASE 1** | Acceleration | 142 | 630 | 0,7 |
| | Constant speed | 98 | 1260 | 12,9 |
| | Deceleration | 54 | 630 | 0,7 |
| **PHASE 2** | Acceleration | 616 | 450 | 4,8 |
| | Constant speed | 589 | 900 | 33,3 |
| | Deceleration | 562 | 450 | 4,8 |
| **PHASE 3** | Acceleration | 997 | 240 | 7,1 |
| | Constant speed | 981 | 480 | 28,6 |
| | Deceleration | 965 | 240 | 7,1 |
| | TOTAL | | | 100,0 |


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## HOW TO CALCULATE THE DRIVING TORQUE [Nm]

$F_A$ = Total force acting from outside [N]
p = Pitch of the ball screw [mm]
η = Performance
$C_{M1}$ = Driving torque due to external agents [Nm]

$$C_{TOT} = C_{M1} + C_{M2} + C_{M3}$$

$$F_A = F_E + \mu \cdot m_E \cdot g$$

$$C_{M1} = \frac{F_A \cdot p}{2\pi \cdot 1000} \cdot \frac{1}{\mu}$$

$J_{TOT}$ = Moment of inertia of rotating components [kg·m2]
$J_F$ = Moment of inertia of fixed-length rotating components [kg·m$^2$]
$J_V$ = Moment of inertia of variable-length rotating components [kg·m$^2$]
$K_V$ = Coefficient of inertia of variable-length rotating components [kg·mm2/mm]
C = Rod stroke [mm]
ώ = Angular acceleration [rad/s2]
a = Linear acceleration of the ball screw [m/s2]
$C_{M2}$ = Driving torque due to rotating components [Nm]

$$J_{TOT} = (J_F + J_V) \cdot 10^{-6}$$

$$J_V = K_V \cdot C$$

$$\dot{\omega} = \frac{a \cdot 2\pi \cdot 1000}{p}$$

$$C_{M2} = J_{TOT} \cdot \dot{\omega} \cdot \frac{1}{\mu}$$

$F_{TT}$ = Force needed to move sliding components [N]
$F_{TF}$ = Force needed to move fixed-length sliding components [N]
$F_{TV}$ = Force needed to move variable-length sliding components [N]
$m_{C1}$ = Mass of the fixed-length sliding components [kg]
$K_{TV}$ = Mass coefficient of variable-length sliding components [kg/mm]
$C_{M3}$ = Driving torque due to sliding components [Nm]

$$F_{TT} = F_{TF} + F_{TV}$$

$$F_{TF} = m_{C1} \cdot a$$

$$F_{TV} = K_{TV} \cdot C \cdot a$$

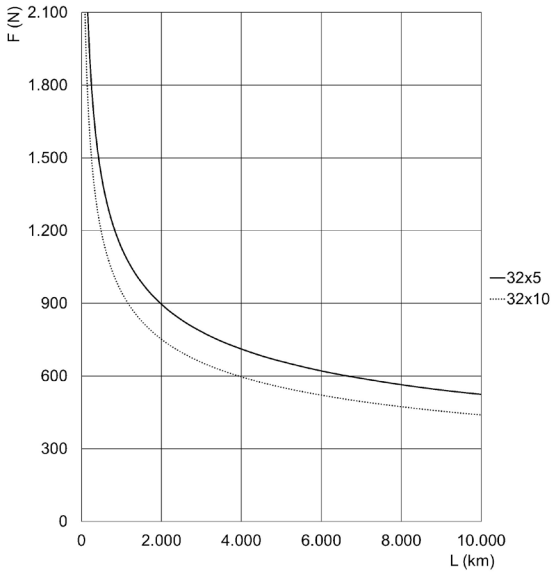
$$C_{M3} = \frac{F_{TT} \cdot p}{2\pi \cdot 1000} \cdot \frac{1}{\mu}$$

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ELECTROMECHANICAL CYLINDERS
SERIES 6E - DIAGRAMS

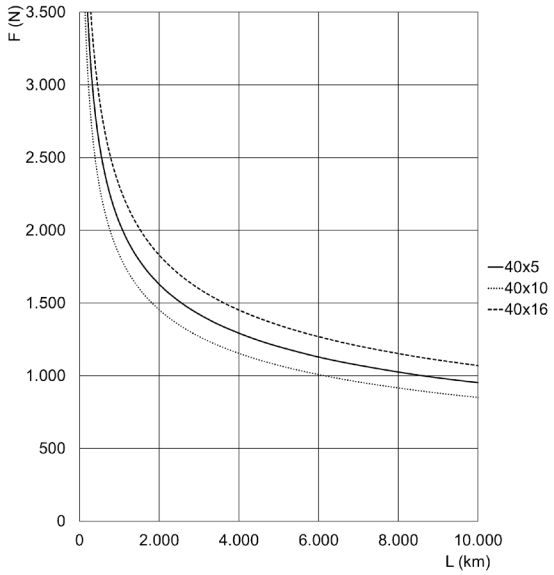


## Life of the cylinder according to the average axial force applied (environmental T and standard conditions of use)



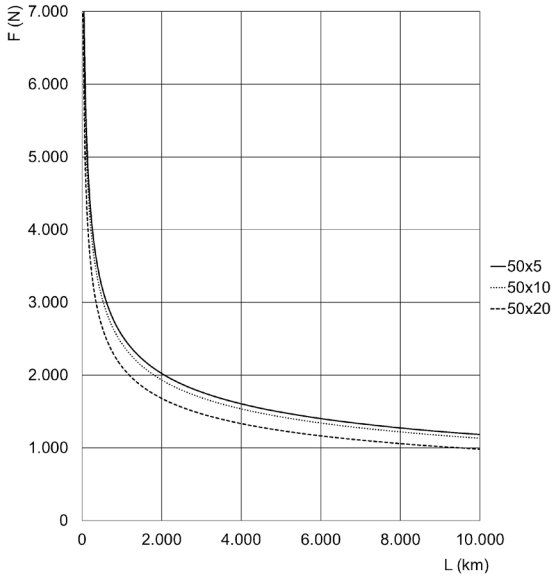

**Size 32**

**F = Axial Force [N]**
**L = life [km]**
**Curves calculated with fw = 1**



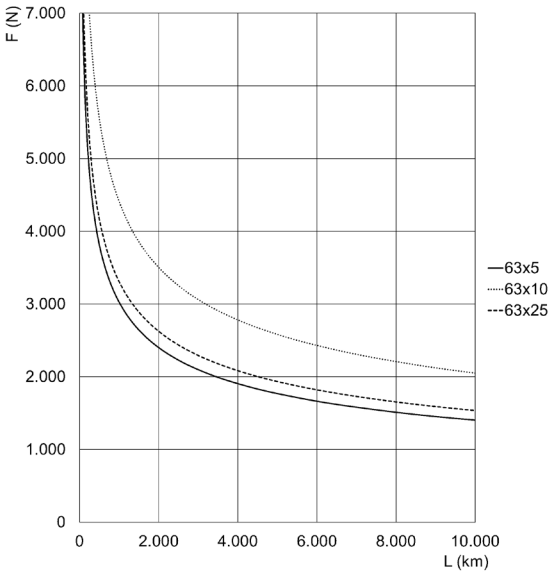

**Size 40**

**F = Axial Force [N]**
**L = life [km]**
**Curves calculated with fw = 1**




**Size 50**

**F = Axial Force [N]**
**L = life [km]**
**Curves calculated with fw = 1**



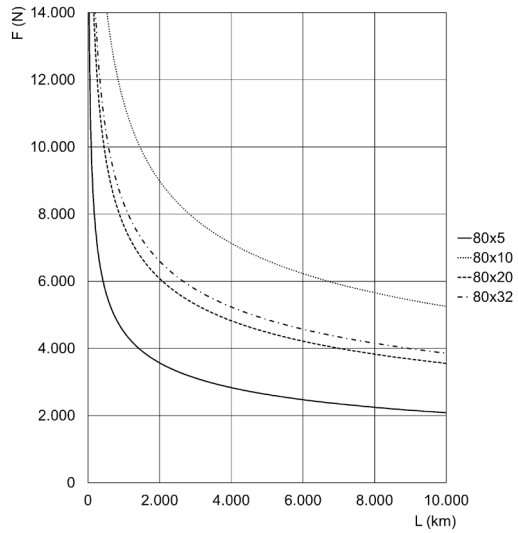

**Size 63**

**F = Axial Force [N]**
**L = life [km]**
**Curves calculated with fw = 1**



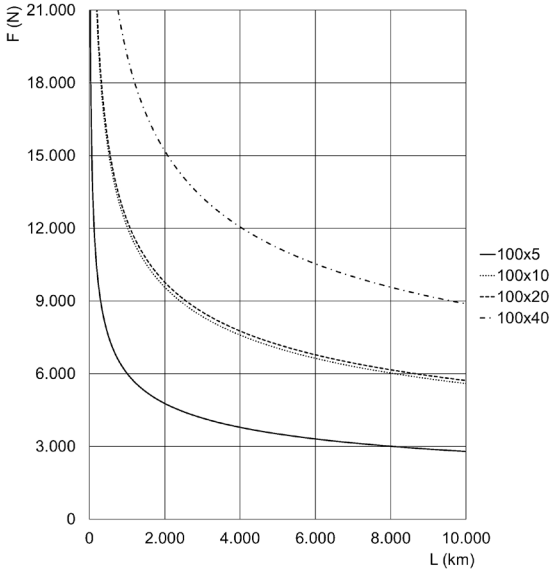
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## Life of the cylinder according to the average axial force applied (environmental T and standard conditions of use)




**Size 80**

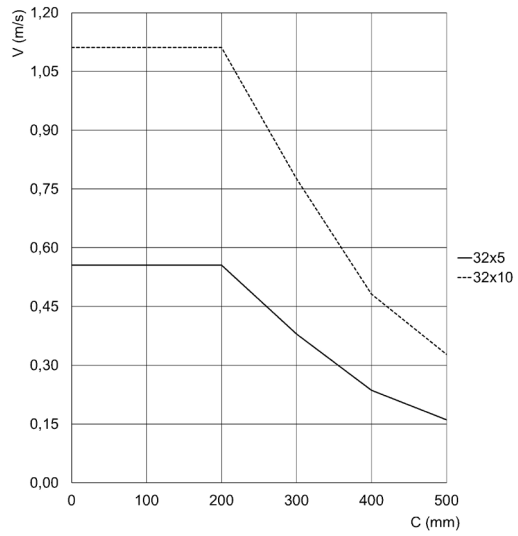
**F = Axial Force [N]**
**L = life [km]**
**Curves calculated with fw = 1**




**Size 100**

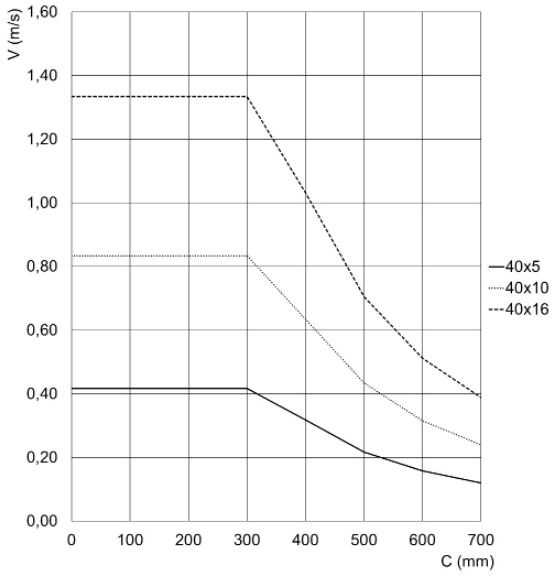
**F = Axial Force [N]**
**L = life [km]**
**Curves calculated with fw = 1**

## Maximum speed of the cylinder according to its stroke




**Size 32**

**V = speed [m/s]**
**c = stroke [mm]**



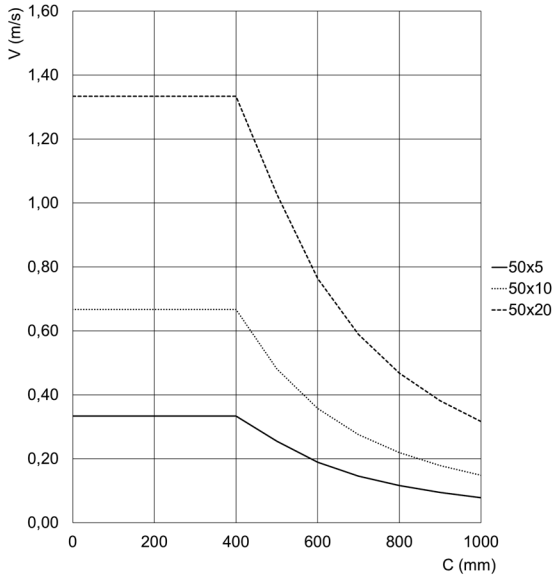

**Size 40**

**V = speed [m/s]**
**c = stroke [mm]**

ELECTROMECHANICAL CYLINDERS
SERIES 6E - DIAGRAMS

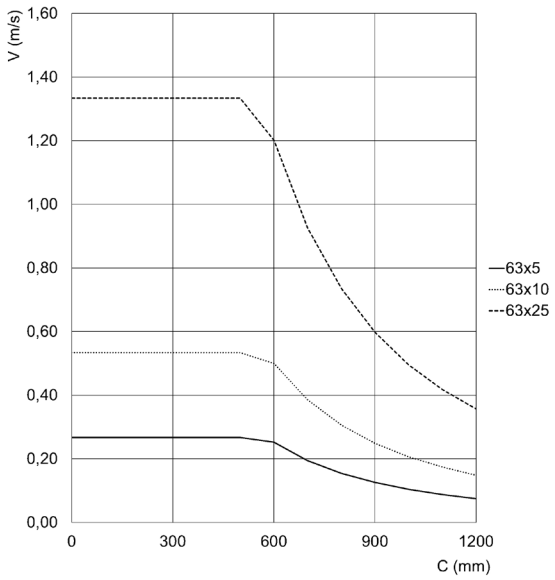


## Maximum speed of the cylinder according to its stroke



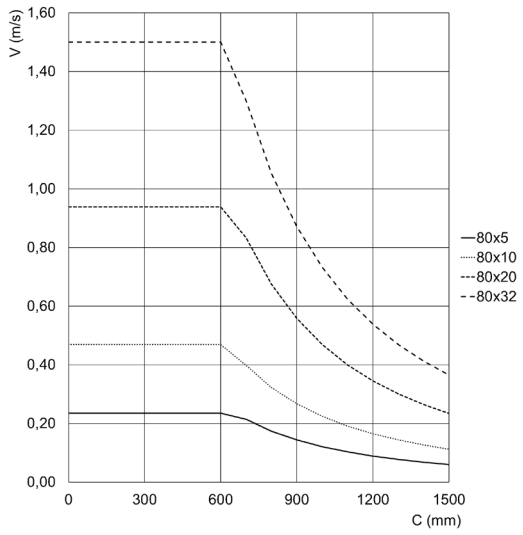

**Size 50**

**V = speed [m/s]**
**c = stroke [mm]**



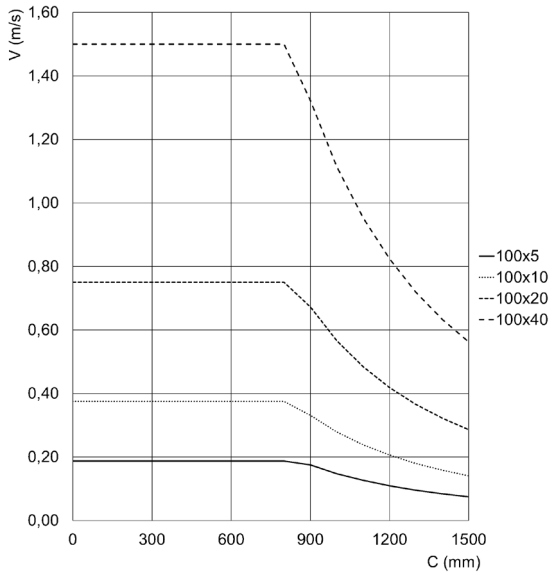

**Size 63**

**V = speed [m/s]**
**c = stroke [mm]**




**Size 80**

**V = speed [m/s]**
**c = stroke [mm]**



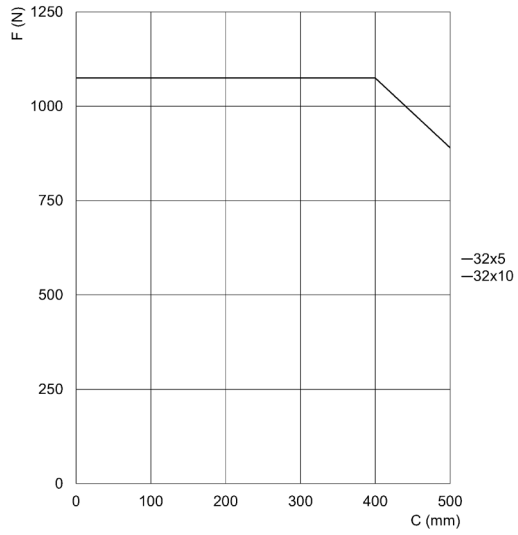

**Size 100**

**V = speed [m/s]**
**c = stroke [mm]**



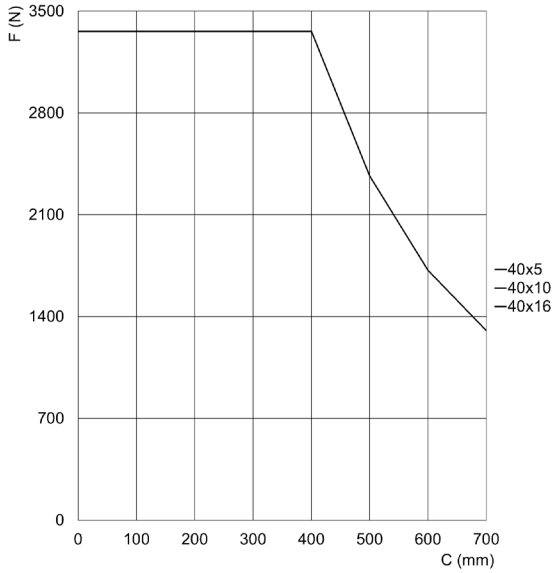
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## Maximum force of the cylinder according to its stroke



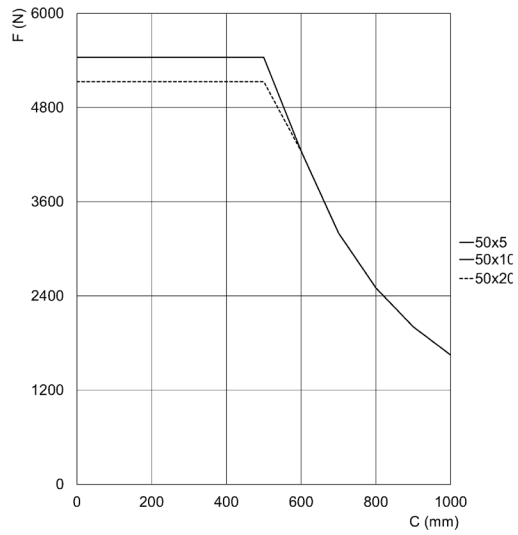

**Size 32**

**F = static axial Force [N]**
**c = stroke [mm]**



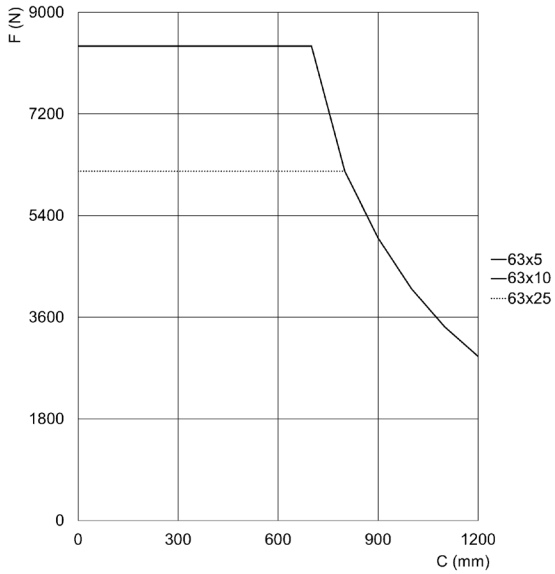

**Size 40**

**F = static axial Force [N]**
**c = stroke [mm]**




**Size 50**

**F = static axial Force [N]**
**c = stroke [mm]**

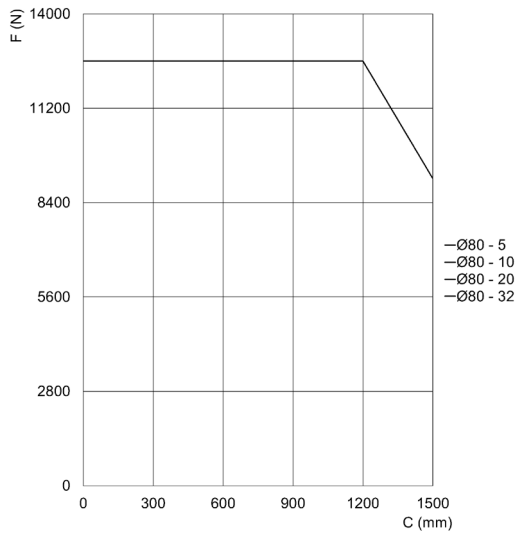



**Size 63**

**F = static axial Force [N]**
**c = stroke [mm]**

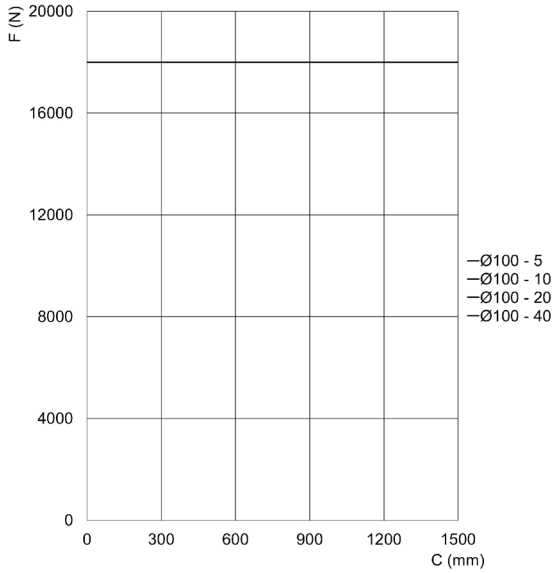
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## Maximum force of the cylinder according to its stroke




**Size 80**

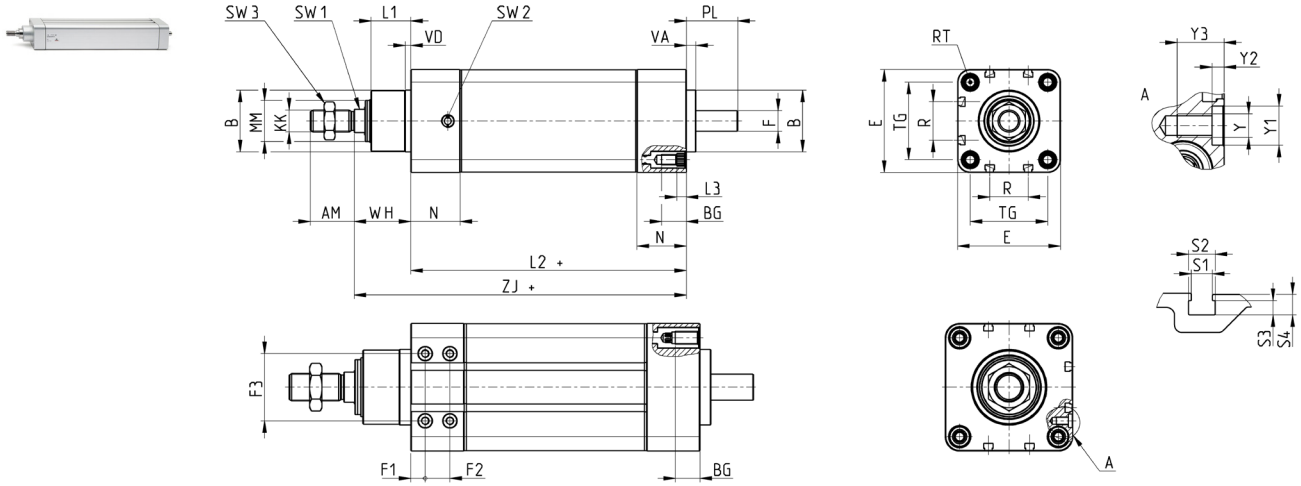
**F = static axial Force [N]**
**c = stroke [mm]**




**Size 100**

**F = static axial Force [N]**
**c = stroke [mm]**

## Series 6E cylinders Series 6E




**+ = add the stroke**

| Size | AM | B | BG | E | F | F1 | F2 | F3 | KK | L1 | L2+ | L3 | MM | N | R | RT | PL | SW1 | SW2 | SW3 | TG | VA | VD | Y | Y1 | Y2 | Y3 | WH | ZJ | S1 | S2 | S3 | S4 | Weight stroke 0 [g] | Weight stroke [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **32** | 22 | 30 | 16 | 46,5 | 8 | - | - | - | M10x1,25 | 20 | 125 | 5,5 | 18 | 26 | 13 | M6 | 21 | 10 | G1/8 | 17 | 32,5 | 6 | 4 | - | - | - | - | 30 | 155 | 5,4 | 6,8 | 3,65 | 5 | 1175 | 3,77 |
| **40** | 24 | 35 | 16 | 55,4 | 10 | - | - | - | M12x1,25 | 22 | 142 | 5,5 | 22 | 27 | 13,5 | M6 | 24 | 13 | G1/8 | 19 | 38 | 6 | 4 | - | - | - | - | 33 | 175 | 5,4 | 6,8 | 3,65 | 5 | 1395 | 5,30 |
| **50** | 32 | 40 | 16 | 64,9 | 12 | - | - | - | M16x1,5 | 26 | 173 | 5,5 | 25 | 36 | 16 | M8 | 30 | 17 | G1/8 | 24 | 46,5 | 7 | 4 | - | - | - | - | 38 | 211 | 5,4 | 6,8 | 3,65 | 5 | 2280 | 6,03 |
| **63** | 32 | 45 | 16 | 75 | 15 | - | - | - | M16x1,5 | 29 | 201 | 5,5 | 30 | 36 | 28 | M8 | 38 | 17 | G1/8 | 24 | 56,5 | 7 | 4 | - | - | - | - | 42 | 242,5 | 5,4 | 6,8 | 3,65 | 5 | 3500 | 9,77 |
| **80** | 40 | 55* | 18 | 93 | 19 | 10,5 | 18 | 49 | M20x1,5 | 35 | 211 | - | 40 | 39 | 30 | M10 | 39 | 22 | G1/4 | 30 | 72 | 8 | 8 | M6 | 10 | 3 | 12 | 49 | 260 | 5,4 | 6,8 | 3,65 | 5 | 6440 | 13,70 |
| **100** | 40 | 65* | 18 | 115 | 24 | 13 | 18 | 62 | M20x1,5 | 38 | 232 | - | 50 | 44 | 40 | M10 | 42 | 22 | G1/4 | 30 | 89 | 8 | 8 | M8 | 12 | 3 | 16 | 51 | 283 | 5,4 | 6,8 | 3,65 | 5 | 10725 | 20,50 |

* dimension not in compliance with ISO 15552 standard



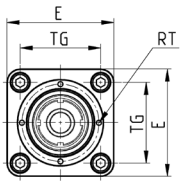
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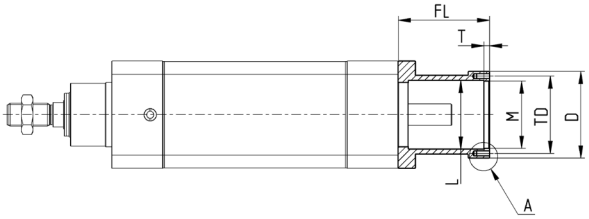
## Housing for axial connection Mod. CM

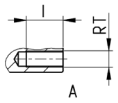


**Material:**
anodized aluminium

Supplied with:
1x housing
4x screws



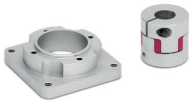




**+ = add the stroke**

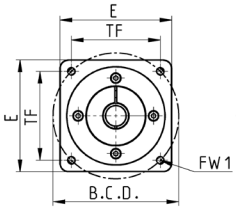
| Mod. | Size | XT | E | øD | TG | FL | øL | øM(h7) | T | TD | RT | I | Weight [g] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CM-6E-32** | 32 | 201 | 46,5 | 42 | 32,5 | 46 | 29 | 32 | 4 | 37 | M3 | 9 | 100 |
| **CM-6E-40** | 40 | 224 | 55,4 | 52 | 38 | 49 | 36 | 37 | 4 | 43 | M3 | 9 | 150 |
| **CM-6E-50** | 50 | 267 | 64,9 | 58 | 46,5 | 56 | 39 | 42 | 4 | 49 | M4 | 9 | 225 |
| **CM-6E-63** | 63 | 306,5 | 75 | 60,5 | 56,5 | 64 | 48 | 47 | 4 | 54 | M4 | 9 | 280 |

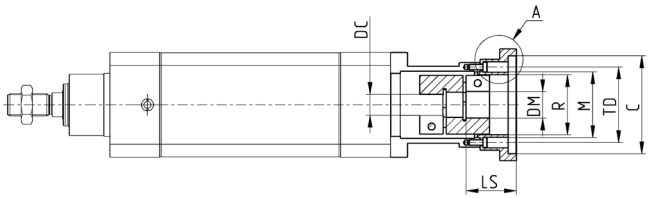
## Flange for axial connection Mod. FM

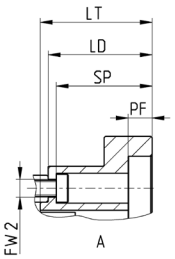


**Material:**
anodized aluminium

Supplied with:
1x flange
1x flexible coupling
4x screws
4x motor connection screws



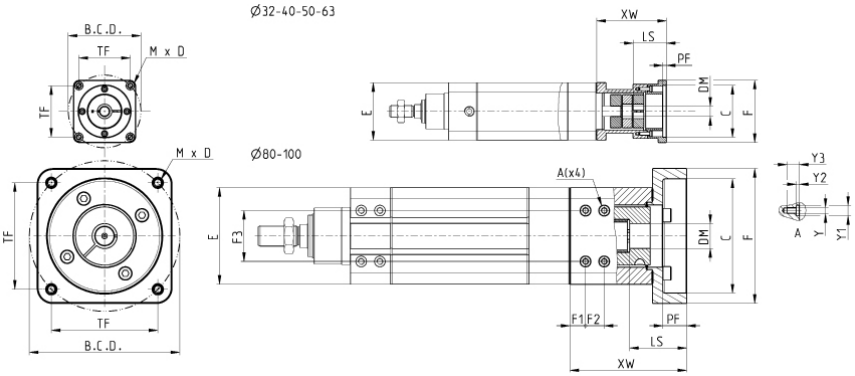

**+ = add the stroke**

| Mod. | Size | Housing | Motor | XR | øC(h7) | PF | LT | LD | øM(h7) | E | øR | TF | øB.C.D. | FW1 | øTD | SP | øFW2 | øDC | øDM | LS | Nominal torque [Nm](A) | Max. torque [Nm](B) | J (Kgmm²) | Weight [g] | η |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **FM-6E-32-0100** | 32 | CM-6E-32 | MTB-010-... | 210 | 30 | 6 | 11 | 9 | 32 | 42 | 29 | - | 45 | M3 | 37 | 6 | 3,5 | 8 | 8 | 22 | 9 | 18 | 2 | 65 | 0,78 |
| **FM-6E-32-0023** | 32 | CM-6E-32 | MTS-23-... | 208 | 38,1 | 5 | 9 | 7 | 32 | 56,4 | 29 | 47,1 | - | M4 | 37 | 5 | 3,5 | 8 | 6,35 | 25 | 9 | 18 | 2 | 140 | 0,78 |
| **FM-6E-40-0400** | 40 | CM-6E-40 | MTB-040-... | 242 | 50 | 3,5 | 20 | 18 | 37 | 60 | 33 | - | 70 | M5 | 43 | 3,5 | 3,5 | 10 | 14 | 40 | 12,5 | 25 | 3 | 140 | 0,78 |
| **FM-6E-40-0023** | 40 | CM-6E-40 | MTS-23-... | 231 | 38,1 | 5 | 9 | 7 | 37 | 56,4 | 33 | 47,1 | - | M4 | 43 | 5 | 3,5 | 10 | 6,35 | 29,3 | 12,5 | 25 | 3 | 215 | 0,78 |
| **FM-6E-50-0400** | 50 | CM-6E-50 | MTB-040-... | 284 | 50 | 6 | 19 | 17 | 42 | 60 | 37 | - | 70 | M5 | 49 | 14 | 4,5 | 12 | 14 | 37,3 | 12,5 | 25 | 3 | 210 | 0,78 |
| **FM-6E-50-0024** | 50 | CM-6E-50 | MTS-24-... | 274 | 38,1 | 3 | 9 | 7 | 42 | 58 | 37 | 47,1 | - | M4 | 49 | 4 | 4,5 | 12 | 8 | 29,3 | 12,5 | 25 | 3 | 190 | 0,78 |
| **FM-6E-63-0750** | 63 | CM-6E-63 | MTB-075-... | 332,5 | 70 | 6 | 28 | 26 | 47 | 80 | 43 | - | 90 | M6 | 54 | 24 | 4,5 | 15 | 19 | 54,8 | 17 | 34 | 10 | 565 | 0,78 |
| **FM-6E-63-0024** | 63 | CM-6E-63 | MTS-24-... | 313,5 | 38,1 | 5 | 9 | 7 | 47 | 60,5 | 43 | 47,1 | - | M4 | 54 | 5 | 4,5 | 15 | 8 | 29,3 | 12,5 | 25 | 3 | 200 | 0,78 |

# Kit for axial connection Mod. AM



**Supplied with:**
1x housing
1x flange
1x flexible coupling
4x screws to connect on the cylinder's side
4x screws to connect on the motor's side
3x seals
4x seal washers
4x motor connection screws



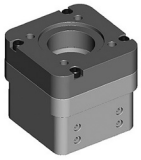

| Mod. | Size | Protection class | Motore | øDM | LS | øC | PF | E | F | TF | øB.C.D. | MxD | F1 | F2 | F3 | Y | Y1 | Y2 | Y3 | XW | Nominal torque [Nm](A) | Max. torque [Nm](B) | J (Kgmm²) | Weight [g] | η |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AM-6E-32-0100** | 32 | IP40 | MTB-010-... | 8 | 22 | 30 | 6 | 46,5 | 42 | - | 45 | M3x9 | - | - | - | - | - | - | - | 55 | 9 | 18 | 2 | 165 | 0,78 |
| **AM-6E-32-0100P** | 32 | IP65 | MTB-010-... | 8 | 22 | 30 | 6 | 46,5 | 42 | - | 45 | M3x9 | - | - | - | - | - | - | - | 55 | 9 | 18 | 2 | 165 | 0,78 |
| **AM-6E-32-0023** | 32 | IP40 | MTS-23-... | 6,35 | 25 | 38,1 | 5 | 46,5 | 56,4 | 47,1 | - | M4x7 | - | - | - | - | - | - | - | 53 | 9 | 18 | 2 | 240 | 0,78 |
| **AM-6E-32-0023P** | 32 | IP65 | MTS-23-... | 6,35 | 25 | 38,1 | 5 | 46,5 | 56,4 | 47,1 | - | M4x7 | - | - | - | - | - | - | - | 53 | 9 | 18 | 2 | 240 | 0,78 |
| **AM-6E-32-0024P** | 32 | IP65 | MTS-24-... | 8 | 21,6 | 38,1 | 6 | 46,5 | 60 | 47,1 | - | M4x7 | - | - | - | - | - | - | - | 53,5 | 9 | 18 | 2 | 240 | 0,78 |
| **AM-6E-40-0400** | 40 | IP40 | MTB-040-... | 14 | 40 | 50 | 3,5 | 55,4 | 60 | - | 70 | M5x8 | - | - | - | - | - | - | - | 67 | 12,5 | 25 | 3 | 290 | 0,78 |
| **AM-6E-40-0400P** | 40 | IP65 | MTB-040-... | 14 | 40 | 50 | 3,5 | 55,4 | 60 | - | 70 | M5x8 | - | - | - | - | - | - | - | 67 | 12,5 | 25 | 3 | 290 | 0,78 |
| **AM-6E-40-0023** | 40 | IP40 | MTS-23-... | 6,35 | 25 | 38,1 | 5 | 55,4 | 56,4 | 47,1 | - | M4x7 | - | - | - | - | - | - | - | 56 | 12,5 | 25 | 2 | 365 | 0,78 |
| **AM-6E-40-0023P** | 40 | IP65 | MTS-23-... | 6,35 | 25 | 38,1 | 5 | 55,4 | 56,4 | 47,1 | - | M4x7 | - | - | - | - | - | - | - | 56 | 12,5 | 25 | 2 | 365 | 0,78 |
| **AM-6E-40-0024P** | 40 | IP65 | MTS-24-... | 8 | 20,5 | 38,1 | 5 | 55,4 | 60 | 47,1 | - | M4x8 | - | - | - | - | - | - | - | 55 | 12,5 | 25 | 3 | 365 | 0,78 |
| **AM-6E-50-0400** | 50 | IP40 | MTB-040-... | 14 | 40 | 50 | 6 | 64,9 | 60 | - | 70 | M5x9 | - | - | - | - | - | - | - | 73 | 12,5 | 25 | 3 | 435 | 0,78 |
| **AM-6E-50-0400P** | 50 | IP65 | MTB-040-... | 14 | 40 | 50 | 6 | 64,9 | 60 | - | 70 | M5x9 | - | - | - | - | - | - | - | 73 | 12,5 | 25 | 3 | 435 | 0,78 |
| **AM-6E-50-0750P** | 50 | IP65 | MTB-075-... | 19 | 40 | 70 | 4,5 | 64,9 | 80 | - | 90 | M6x12 | - | - | - | - | - | - | - | 86 | 17 | 34 | 10 | 746 | 0,78 |
| **AM-6E-50-0024** | 50 | IP40 | MTS-24-... | 8 | 29,3 | 38,1 | 3 | 64,9 | 58 | 47,1 | - | M4x7 | - | - | - | - | - | - | - | 63 | 12,5 | 25 | 3 | 415 | 0,78 |
| **AM-6E-50-0024P** | 50 | IP65 | MTS-24-... | 8 | 29,3 | 38,1 | 3 | 64,9 | 58 | 47,1 | - | M4x7 | - | - | - | - | - | - | - | 63 | 12,5 | 25 | 3 | 415 | 0,78 |
| **AM-6E-50-0034P** | 50 | IP65 | MTS-34-... | 14 | 37,5 | 73 | 4,5 | 64,9 | 86 | 47,1 | - | M6x12 | - | - | - | - | - | - | - | 83 | 17 | 34 | 10 | 785 | 0,78 |
| **AM-6E-63-0750** | 63 | IP40 | MTB-075-... | 19 | 54,8 | 70 | 6 | 75 | 80 | - | 90 | M6x12 | - | - | - | - | - | - | - | 90 | 17 | 34 | 10 | 845 | 0,78 |
| **AM-6E-63-0750P** | 63 | IP65 | MTB-075-... | 19 | 54,8 | 70 | 6 | 75 | 80 | - | 90 | M4x7 | - | - | - | - | - | - | - | 90 | 17 | 34 | 10 | 845 | 0,78 |
| **AM-6E-63-0024** | 63 | IP40 | MTS-24-... | 8 | 29,3 | 38,1 | 5 | 75 | 60,5 | 47,1 | - | M6x12 | - | - | - | - | - | - | - | 71 | 12,5 | 25 | 3 | 480 | 0,78 |
| **AM-6E-63-0024P** | 63 | IP65 | MTS-24-... | 8 | 29,3 | 38,1 | 5 | 75 | 60,5 | 47,1 | - | M8x14 | - | - | - | - | - | - | - | 71 | 12,5 | 25 | 3 | 480 | 0,78 |
| **AM-6E-63-0034P** | 63 | IP65 | MTS-34-... | 14 | 36,5 | 73 | 3,5 | 75 | 86 | 69,6 | - | M6x15 | - | - | - | - | - | - | - | 88 | 17 | 34 | 10 | 1025 | 0,78 |
| **AM-6E-80-1000P** | 80 | IP65 | MTB-100-... | 24 | 55,7 | 110 | 23 | 93 | 130 | - | 90 | M8x14 | 15 | 18 | 49 | M6 | 10 | 3,1 | 12 | 112,5 | 60 | 120 | 40 | 2510 | 0,78 |
| **AM-6E-80-0034P** | 80 | IP65 | MTS-34-... | 14 | 37,5 | 73 | 5 | 93 | 93 | 69,6 | - | M6x15 | 15 | 18 | 49 | M6 | 10 | 3,1 | 12 | 94,5 | 60 | 120 | 40 | 1885 | 0,78 |
| **AM-6E-100-1000P** | 100 | IP65 | MTB-100-... | 24 | 55 | 110 | 23 | 115 | 130 | - | 145 | M8x14 | 15 | 18 | 62 | M8 | 12 | 3,1 | 18 | 115,5 | 60 | 120 | 40 | 3465 | 0,78 |
| **AM-6E-100-0034P** | 100 | IP65 | MTS-34-... | 14 | 37,5 | 73 | 5 | 115 | 93 | 69,6 | - | M6x15 | 15 | 18 | 62 | M8 | 12 | 3,1 | 18 | 97,5 | 60 | 120 | 40 | 2840 | 0,78 |

(A)Continuously applicable torque, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com
(B)Torque applicable for short intervals, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com

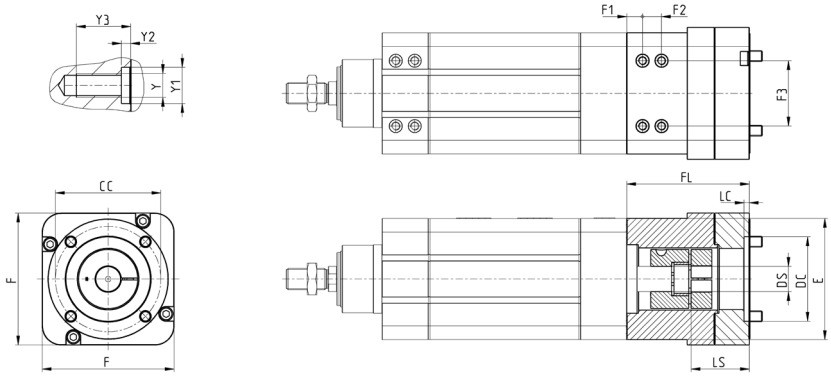


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## Kit for axial connection Mod. AR



**Supplied with:**
2x flanges (1 for size 80)
8x screws
1x coupling
2x seals (1 for size 80)



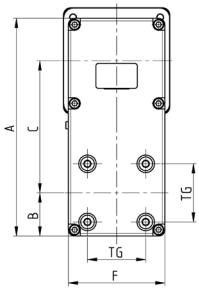

| Mod. | Size | Protection class | Gearbox | XE+ | FL | F | E | DC | LC | CC | F1 | F2 | F3 | Y | Y1 | Y2 | Y3 | DS | LS | Nominal torque [Nm](A) | Max. torque [Nm](B) | J (Kgmm²) | Weight [g] | η |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AR-6E-50-R060P** | 50 | IP65 | GB-060 | 288,2 | 77,2 | - | 64,9 | 40 | 3 | 52 | - | - | - | - | - | - | - | 14 | 35 | 16 | 32 | 3 | 630 | 0,78 |
| **AR-6E-63-R060P** | 63 | IP65 | GB-060 | 339,3 | 88,6 | - | 75 | 40 | 4 | 52 | - | - | - | - | - | - | - | 14 | 35 | 21 | 42 | 10 | 1100 | 0,78 |
| **AR-6E-80-R080P** | 80 | IP65 | GB-080 | 358 | 98 | - | 93 | 60 | 5 | 70 | 15 | 18 | 49 | 6 | 10 | 3,1 | 12 | 20 | 40 | 60 | 120 | 40 | 2090 | 0,78 |
| **AR-6E-100-R120P** | 100 | IP65 | GB-120 | 399,8 | 116,8 | 125 | 115 | 80 | 5 | 100 | 15 | 18 | 62 | 8 | 12 | 3,1 | 18 | 25 | 55 | 60 | 120 | 40 | 3800 | 0,78 |

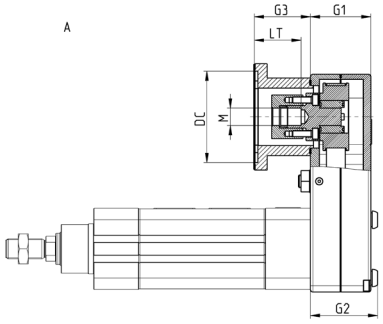
(A) Continuously applicable torque, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com
(B) Torque applicable for short intervals, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com

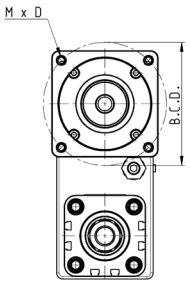
## Kit for parallel connection Mod. PM

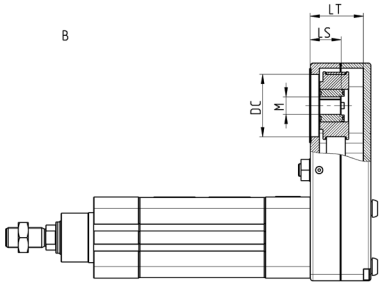


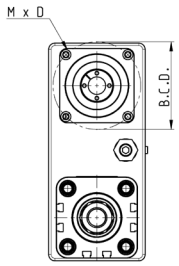
**The kit includes:**
1x front cover
1x rear cover
2x pulleys
2x locking sets
1x toothed belt 1x belt traction unit
4x screws for cylinder's side
4x cover rear screws + seal washers
6x cover fixing screws
3x seals
1x seal plug
4x motor seal washers
4x motor connection screws

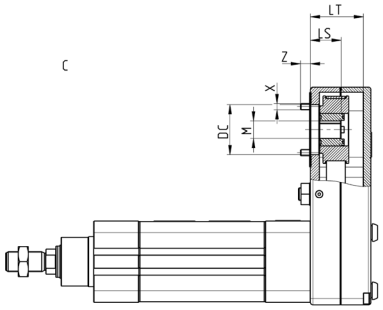


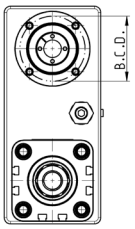



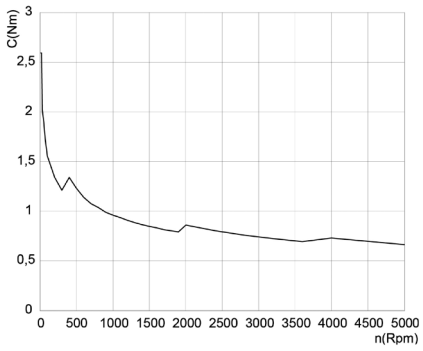




| Mod. | Size | Gearbox | Motor | G3* | A | F | G1 | G2 | B | C | TG | øM | LS | LT | øDC | øBCD | MxD | X | Z | J (Kgmm²) | Weight [g] | η |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PM-6E-32-0100P** | 32 | - | MTB-010-... | - | 122 | 54 | 35 | 39,2 | 26,5 | 65 | 32,5 | 8 | 18,5 | 29,5 | 30 | 45 | M3x6 | - | - | 20,67 | 450 | 0,62 |
| **PM-6E-32-0024P** | 32 | - | MTS-24-... | 30 | 122 | 54 | 35 | 39,2 | 26,5 | 65 | 32,5 | 8 | - | 20,5 | 38,1 | 66,6 | M4x10 | - | - | 27,78 | 450 | 0,62 |
| **PM-6E-40-0400P** | 40 | - | MTB-040-... | - | 154 | 67 | 46 | 50,2 | 30 | 90 | 38 | 14 | 25 | 40,6 | 50 | 70 | M5x7 | - | - | 133,8 | 960 | 0,62 |
| **PM-6E-40-0024P** | 40 | - | MTS-24-... | - | 154 | 67 | 46 | 50,2 | 30 | 90 | 38 | 8 | 20,5 | 40,5 | 38,1 | 66,6 | M4x7 | - | - | 90,3 | 960 | 0,62 |
| **PM-6E-50-0400P** | 50 | - | MTB-040-... | - | 174 | 77 | 48 | 53,4 | 34,5 | 105,5 | 46,5 | 14 | 24,5 | 42,5 | 50 | 70 | M5x7 | - | - | 229,6 | 1375 | 0,62 |
| **PM-6E-50-0034P** | 50 | - | MTS-34-... | 44,5 | 174 | 77 | 48 | 53,4 | 34,5 | 105,5 | 46,5 | 14 | - | 47 | 73,025 | 98,42 | M6x10 | - | - | 276,3 | 1375 | 0,62 |
| **PM-6E-50-R060P** | 50 | GB-060-... | MTB-040-... | - | 174 | 77 | 48 | 53,4 | 34,5 | 105,5 | 46,5 | 14 | 24,5 | 42,5 | 40 | 52 | - | M5 | 8 | 229,6 | 1375 | 0,62 |
| **PM-6E-63-0750P** | 63 | - | MTB-075-... | - | 192 | 87 | 50 | 55,4 | 41 | 107 | 56,5 | 19 | 29,5 | 43,5 | 70 | 90 | M6x8 | - | - | 357,1 | 1675 | 0,62 |
| **PM-6E-63-0034P** | 63 | - | MTS-34-... | - | 192 | 87 | 50 | 55,4 | 41 | 107 | 56,5 | 14 | 27,5 | 43,5 | 73,025 | 98,42 | M6x8 | - | - | 244,5 | 1675 | 0,62 |
| **PM-6E-63-R060P** | 63 | GB-060-... | MTB-040... | - | 192 | 87 | 50 | 55,4 | 41 | 107 | 56,5 | 14 | 27,5 | 43,5 | 40 | 52 | - | M5 | 7,5 | 434,8 | 1675 | 0,62 |
| **PM-6E-80-1000P** | 80 | - | MTB-100-... | - | 310 | 135 | 70 | 77 | 65 | 180 | 72 | 24 | 41 | 60,5 | 110 | 145 | M8x10 | - | - | 1053,1 | 4457 | 0,62 |
| **PM-6E-80-0034P** | 80 | - | MTS-34-... | - | 310 | 135 | 70 | 77 | 65 | 180 | 72 | 14 | 35 | 60,5 | 73,025 | 98,42 | M6x10 | - | - | 970 | 4457 | 0,62 |
| **PM-6E-80-R080P** | 80 | GB-080-... | MTB-075-... | - | 310 | 135 | 70 | 77 | 65 | 180 | 72 | 19 | 36 | 60,5 | 60 | 70 | - | M6 | 9,5 | 999,6 | 4457 | 0,62 |
| **PM-6E-100-1000P** | 100 | - | MTB-100-... | - | 310 | 135 | 70 | 77 | 65 | 180 | 72 | 24 | 41 | 60,5 | 110 | 145 | M8x10 | - | - | 1110,8 | 4457 | 0,62 |
| **PM-6E-100-0034P** | 100 | - | MTS-34-... | - | 310 | 135 | 70 | 77 | 65 | 180 | 72 | 14 | 35 | 60,5 | 73,025 | 98,42 | M6x10 | - | - | 1031,2 | 4457 | 0,62 |
| **PM-6E-100-R080P** | 100 | GB-080-... | MTB-075-... | - | 310 | 135 | 70 | 77 | 65 | 180 | 72 | 19 | 36 | 60,5 | 60 | 70 | - | M6 | 9,5 | 1054,8 | 4457 | 0,62 |

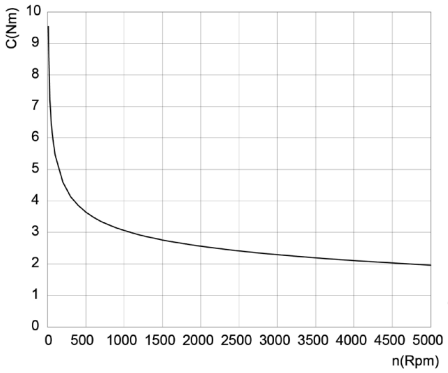

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## TRANSMISSIBLE POWER KIT PM

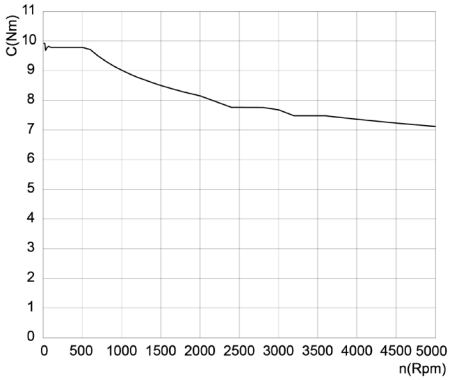
The curves refer to a duty cycle of 70%



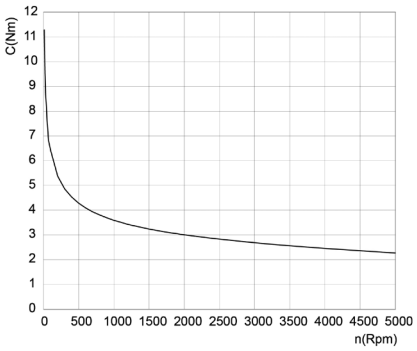

**PM-6E 32...**
**C = Torque [Nm]**
**n = number of revolutions per minute [Rpm]**



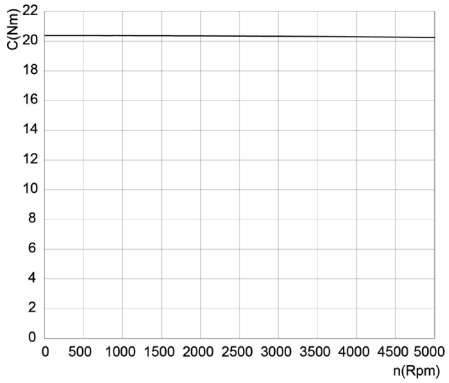

**PM-6E 40...**
**C = Torque [Nm]**
**n = number of revolutions per minute [Rpm]**



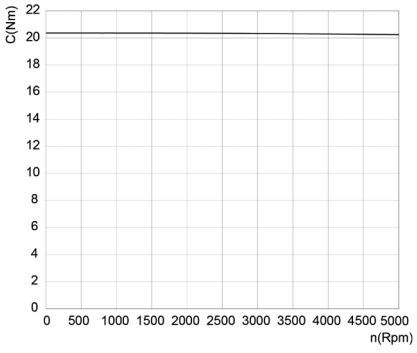

**PM-6E 50...**
**C = Torque [Nm]**
**n = number of revolutions per minute [Rpm]**




**PM-6E 63...**
**C = Torque [Nm]**
**n = number of revolutions per minute [Rpm]**

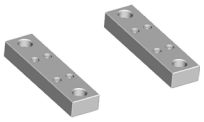



**PM-6E 80...**
**C = Torque [Nm]**
**n = number of revolutions per minute [Rpm]**

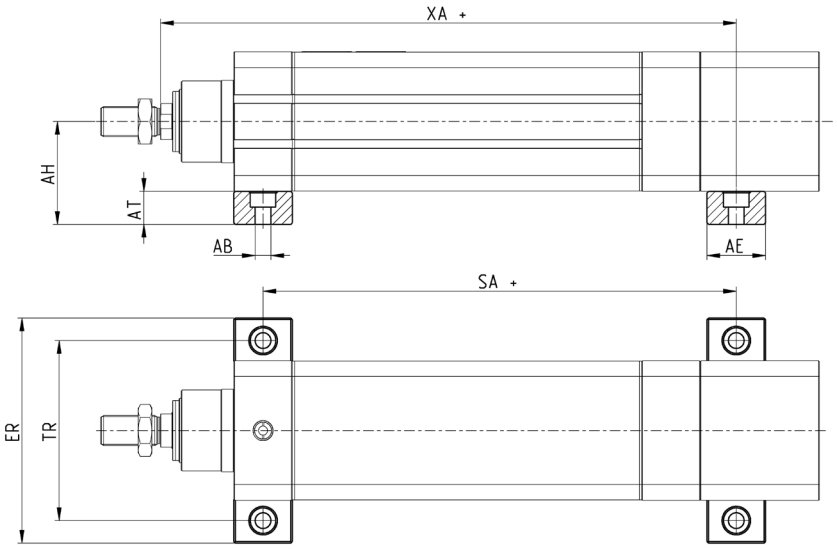



**PM-6E 100...**
**C = Coppia [Nm]**
**n = numero di giri al minuto [Rpm]**

## Cylinder bracket Mod. BA-6E



**Supplied with:**
2x feet
8x centering rings
8x screws




| Mod. | Size | XA | AH | AT | ⌀AB | SA + | ER | TR | AE | Weight [g] |
|---|---|---|---|---|---|---|---|---|---|---|
| **BA-6E-80** | 80 | 283,85 | 68,5 | 22 | 10,5 | 215,5 | 150 | 120 | 39 | 630 |
| **BA-6E-100** | 100 | 306,85 | 79,5 | 22 | 10,5 | 234 | 170 | 140 | 44 | 800 |



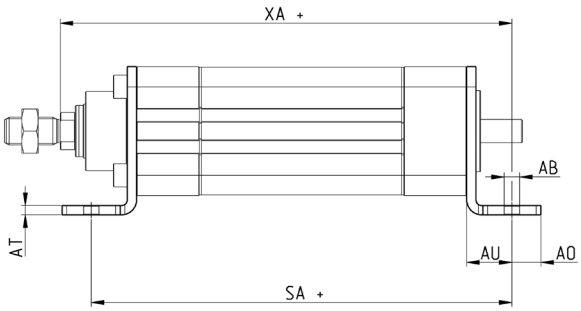
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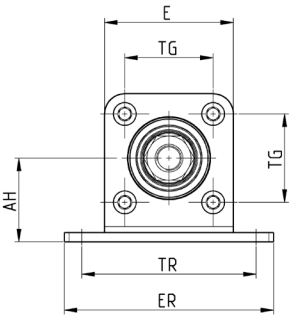
## Foot bracket Mod. B-6E

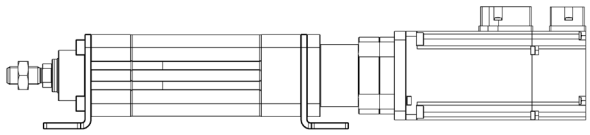


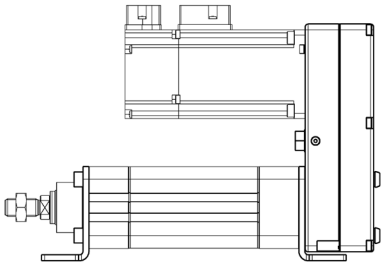
**Material:**
zinc-plated steel

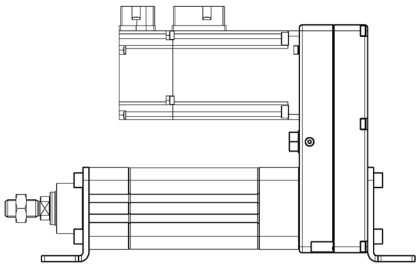
Supplied with:
2x feet
8x screws




* 

* 



*** Mounting available for sizes 32, 40, 50 and 63 only**
**+ = add the stroke**

| Mod. | Size | SA + | XA | AH | TG | TR | AT | AU | AO | AB | ER | E | Weight [g] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B-6E-32** | 32 | 164 | 174,5 | 32 | 32,5 | 65 | 4 | 19,5 | 12,5 | 6,6 | 79 | 46,5 | 275 |
| **B-6E-40** | 40 | 181 | 194,5 | 36 | 38 | 75 | 4 | 19,5 | 12,5 | 6,6 | 90 | 55,4 | 340 |
| **B-6E-50** | 50 | 223 | 236 | 45 | 46,5 | 90 | 5 | 25 | 15 | 9 | 110 | 64,9 | 635 |
| **B-6E-63** | 63 | 251 | 267,5 | 50 | 56,5 | 100 | 5 | 25 | 15 | 9 | 120 | 75 | 755 |
| **B-6E-80** | 80 | 278 | 293,5 | 68,5 | 72 | 120 | 6 | 33,5 | 17,5 | 10,5 | 140 | 93 | 1300 |
| **B-6E-100** | 100 | 299 | 316,5 | 79,5 | 89 | 140 | 6 | 33,5 | 17,5 | 10,5 | 170 | 115 | 1800 |

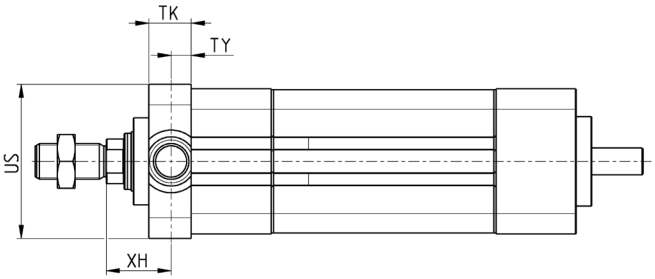
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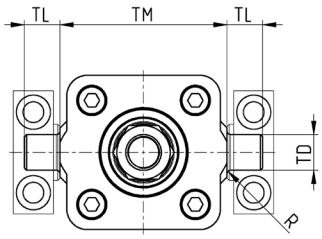
## Front spot faced trunnion Mod. FN



**Material:**
zinc-plated steel

Supplied with:
1x spot faced trunnion
4x screws



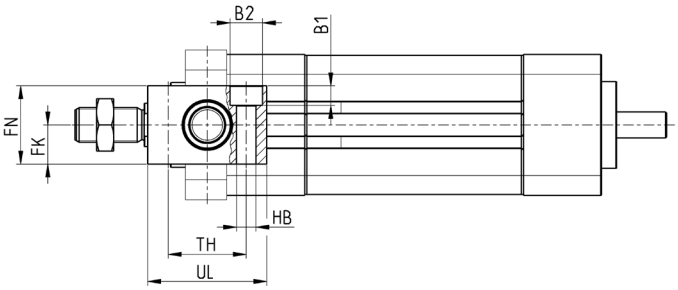

| Mod. | Ø | TK | TY | XH | US | TL | TM | TD | R |
|---|---|---|---|---|---|---|---|---|---|
| **FN-32** | 32 | 14 | 6,5 | 23,5 | 46 | 12 | 50 | 12 | 1 |
| **FN-40** | 40 | 19 | 9 | 24 | 59 | 16 | 63 | 16 | 1,5 |
| **FN-50** | 50 | 19 | 9 | 29 | 69 | 16 | 75 | 16 | 1,6 |
| **FN-63** | 63 | 24 | 11,5 | 30,5 | 84 | 20 | 90 | 20 | 1,6 |
| **FN-6E-80** | 80 | 24 | 11,5 | 34,5 | 102 | 20 | 110 | 20 | 1,6 |
| **FN-6E-100** | 100 | 29 | 14 | 37 | 125 | 25 | 132 | 25 | 2 |

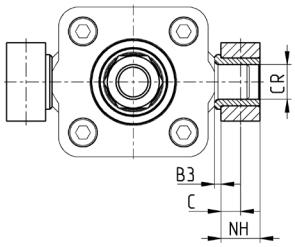
## Counter bracket for front trunnion Mod. BF



**Material:**
aluminium

Supplied with:
2x supports



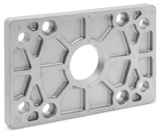




| Mod. | Ø | øCR | NH | C | B3 | TH | UL | FK | FN | B1 | øB2 | øHB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BF-32** | 32 | 12 | 15 | 7,5 | 3 | 32 | 46 | 15 | 30 | 6,8 | 11 | 6,6 |
| **BF-40-50** | 40 - 50 | 16 | 18 | 9 | 3 | 36 | 55 | 18 | 36 | 9 | 15 | 9 |
| **BF-63-80** | 63 - 80 | 20 | 20 | 10 | 3 | 42 | 65 | 20 | 40 | 11 | 18 | 11 |
| **BF-100-125** | 100 - 125 | 25 | 25 | 12,5 | 3,5 | 50 | 75 | 25 | 50 | 13 | 20 | 14 |



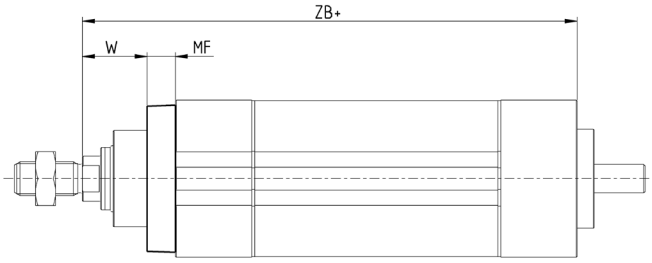
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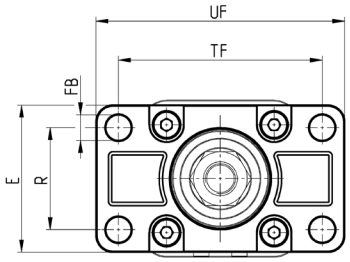
## Front flange Mod. D-E



**Material:**
aluminium for Ø 32 ÷ Ø 100

Supplied with:
1x flange
4x screws




**+ = add the stroke**

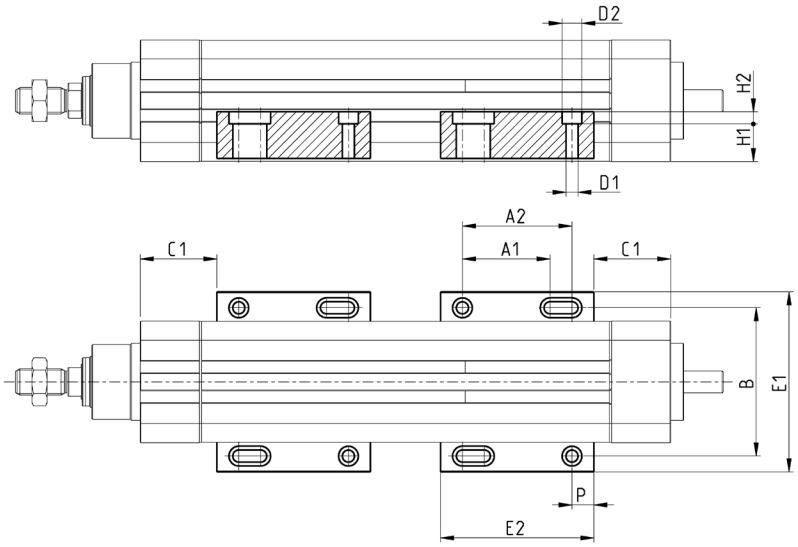
| Mod. | Size | W | MF | ZB + | TF | R | UF | E | ⌀FB |
|---|---|---|---|---|---|---|---|---|---|
| **D-E-41-32** | 32 | 20 | 10 | 155 | 64 | 32 | 80 | 45 | 7 |
| **D-E-41-40** | 40 | 23 | 10 | 175 | 72 | 36 | 90 | 52 | 9 |
| **D-E-41-50** | 50 | 26,5 | 12 | 211 | 90 | 43 | 110 | 65 | 9 |
| **D-E-41-63** | 63 | 30 | 12 | 242,5 | 100 | 50 | 120 | 75 | 9 |
| **D-E-6E-80** | 80 | 30 | 16 | 260 | 126 | 63 | 150 | 95 | 12 |
| **D-E-6E-100** | 100 | 35 | 16 | 283 | 150 | 75 | 170 | 115 | 14 |

## Side clamping bracket Mod. BG



**Material:**
aluminium

Supplied with:
2x clamps




| Mod. | Size | C1 | E1 | E2 | P | A1 | A2 | B | Screw | ⌀D1 | ⌀D2 | H1 | H2 | Weight [g] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BG-6E-32** | 32 | 35 | 71 | 70 | 10 | 40 | 50 | 58,5 | M4 | 4,5 | 7,5 | 13,5 | 4,5 | 80 |
| **BG-6E-40** | 40 | 35 | 82 | 70 | 10 | 40 | 50 | 67,5 | M5 | 5,5 | 9 | 16,9 | 5,5 | 105 |
| **BG-6E-50** | 50 | 35 | 93 | 70 | 10 | 40 | 50 | 76,5 | M6 | 6,5 | 10,5 | 19,4 | 6,5 | 125 |
| **BG-6E-63** | 63 | 35 | 103,5 | 70 | 10 | 40 | 50 | 87 | M6 | 6,5 | 10,5 | 18,9 | 6,5 | 125 |
| **BG-6E-80** | 80 | 45 | 131 | 90 | 17,5 | 50 | 60 | 111,6 | M8 | 8,5 | 14 | 22,5 | 8,5 | 260 |
| **BG-6E-100** | 100 | 50 | 153 | 90 | 17,5 | 50 | 60 | 133,6 | M8 | 8,5 | 14 | 28 | 8,5 | 300 |

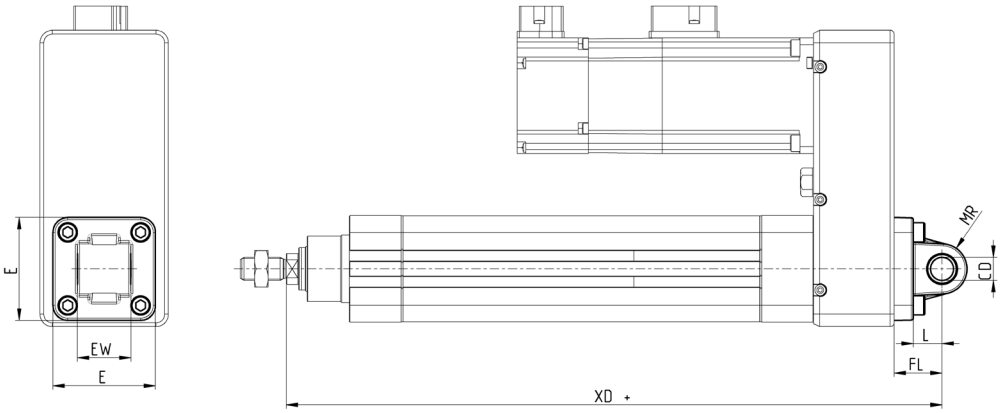
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## Rear male trunnion Mod. L



**Material:**
aluminium

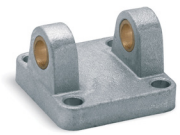
Supplied with:
1x male trunnion
4x screws




**+ = add the stroke**

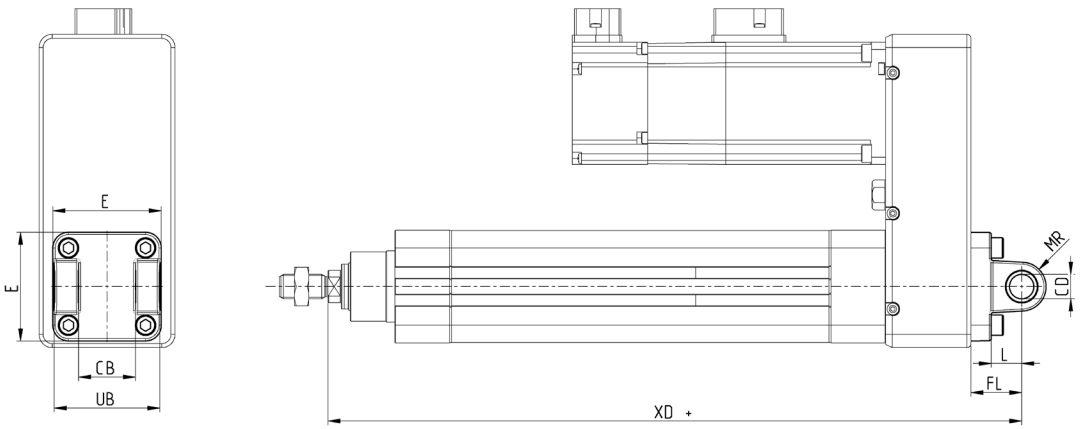
| Mod. | Size | ØCD | L | FL | XD+ | MR | E | EW |
|---|---|---|---|---|---|---|---|---|
| **L-41-32** | 32 | 10 | 13 | 22 | 212 | 10 | 46 | 26 |
| **L-41-40** | 40 | 12 | 16 | 25 | 246 | 12 | 52 | 28 |
| **L-41-50** | 50 | 12 | 16 | 27 | 286 | 12 | 64 | 32 |
| **L-41-63** | 63 | 16 | 21 | 32 | 324,5 | 16 | 74 | 40 |
| **L-41-80** | 80 | 16 | 22 | 36 | 373 | 16 | 93 | 50 |
| **L-41-100** | 100 | 20 | 27 | 41 | 401 | 20 | 112 | 60 |

## Rear female trunnion Mod. C



**Material:**
aluminium

Supplied with:
1x female trunnion
4x screws

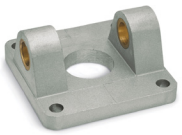



**+ = add the stroke**

| Mod. | Size | ØCD | L | FL | XD+ | MR | E | CB | UB |
|---|---|---|---|---|---|---|---|---|---|
| **C-41-32** | 32 | 10 | 13 | 22 | 212 | 10 | 46 | 26 | 45 |
| **C-41-40** | 40 | 12 | 16 | 25 | 246 | 12 | 52 | 28 | 52 |
| **C-41-50** | 50 | 12 | 16 | 27 | 286 | 12 | 64 | 32 | 60 |

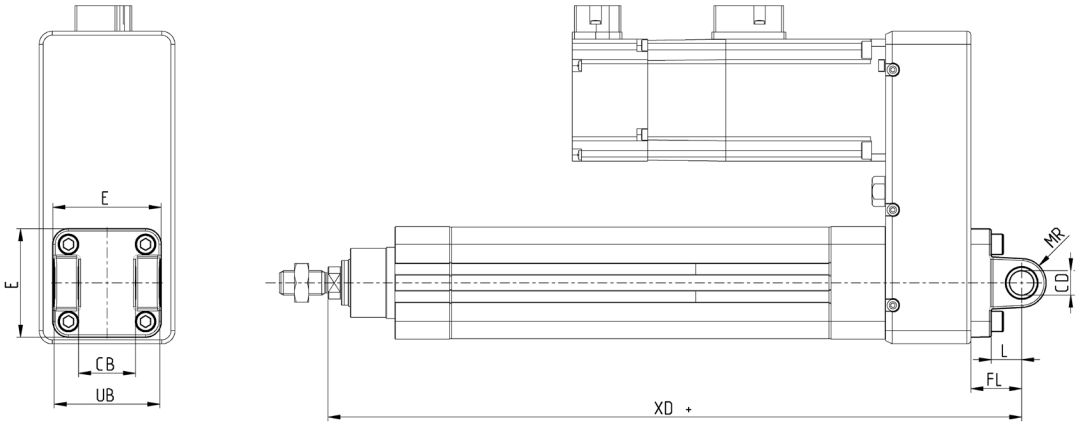

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## Rear female trunnion Mod. C-H



**Material:**
aluminium

Supplied with:
1x female trunnion
4x screws



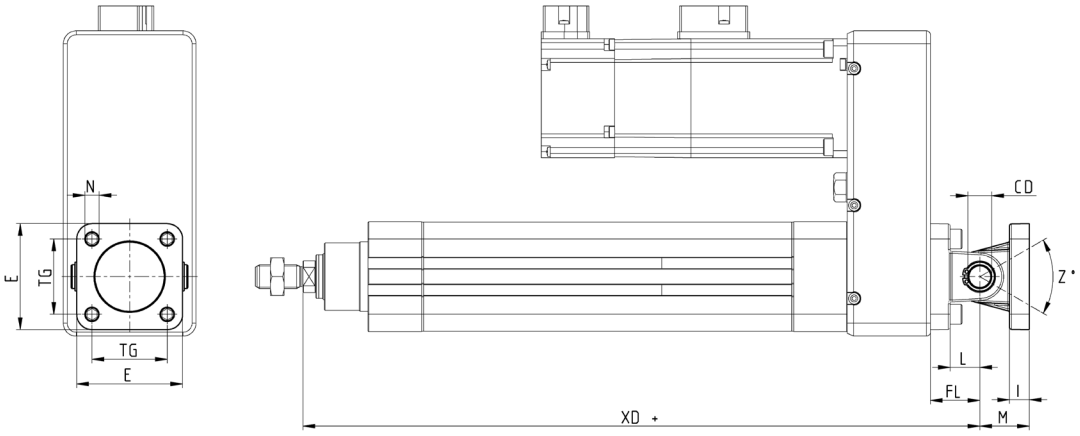

**+ = add the stroke**

| Mod. | Size | ØCD | L | FL | XD+ | MR | E | CB | UB |
|---|---|---|---|---|---|---|---|---|---|
| **C-H-41-63** | 63 | 16 | 21 | 32 | 324,5 | 16 | 74 | 40 | 70 |
| **C-H-41-80** | 80 | 16 | 22 | 36 | 373 | 16 | 93 | 50 | 90 |
| **C-H-41-100** | 100 | 20 | 27 | 41 | 401 | 20 | 112 | 60 | 110 |

## Accessory combination Mod. C+L+S



**Material:**
aluminium




**+ = add the stroke**

| Mod. | Size | E | TG | ØN | XD + | ØCD | L | FL | I | M | Z° (max) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **C+L+S** | 32 | 46 | 32,5 | 6,5 | 212 | 10 | 13 | 22 | 13 | 22 | 30 |
| **C+L+S** | 40 | 52 | 38 | 6,5 | 246 | 12 | 16 | 25 | 16 | 25 | 40 |
| **C+L+S** | 50 | 64 | 46,5 | 9 | 286 | 12 | 16 | 27 | 16 | 27 | 25 |
| **C+L+S** | 63 | 74 | 56,5 | 9 | 324,5 | 16 | 21 | 32 | 21 | 32 | 36 |
| **C+L+S** | 80 | 93 | 72 | 11 | 373 | 16 | 22 | 36 | 22 | 36 | 34 |
| **C+L+S** | 100 | 112 | 89 | 11 | 401 | 20 | 27 | 41 | 27 | 41 | 38 |

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ELECTROMECHANICAL CYLINDERS
SERIES 6E - ACCESSORIES



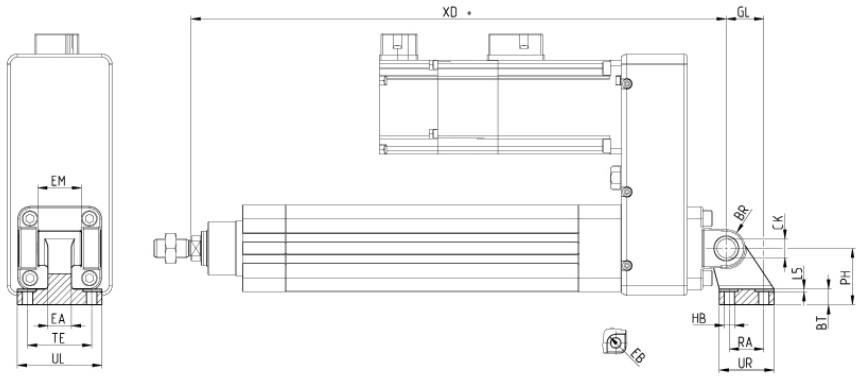
## 90° male trunnion Mod. ZC



**CETOP RP 107P**

Material:
aluminium

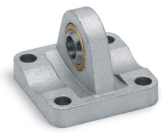
Supplied with:
1x male support




**+ = add the stroke**

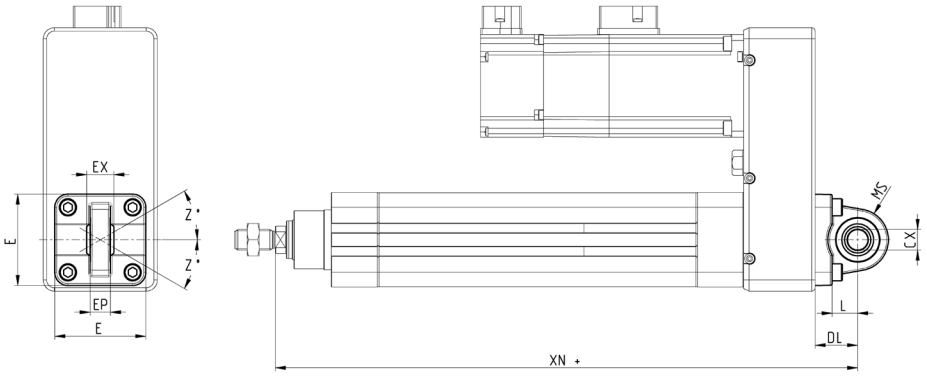
| Mod. | Size | EB | CK | HB | XD | TE | UL | EA | GL | L5 | RA | EM | UR | PH | BT | BR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ZC-32** | 32 | 11 | 10 | 6,6 | 212 | 38 | 51 | 10 | 21 | 1,6 | 18 | 26 | 31 | 32 | 8 | 10 |
| **ZC-40** | 40 | 11 | 12 | 6,6 | 246 | 41 | 54 | 15 | 24 | 1,6 | 22 | 28 | 35 | 36 | 10 | 11 |
| **ZC-50** | 50 | 15 | 12 | 9 | 286 | 50 | 65 | 16 | 33 | 1,6 | 30 | 32 | 45 | 45 | 12 | 13 |
| **ZC-63** | 63 | 15 | 16 | 9 | 324,5 | 52 | 67 | 16 | 37 | 1,6 | 35 | 40 | 50 | 50 | 14 | 15 |
| **ZC-80** | 80 | 18 | 16 | 11 | 373 | 66 | 86 | 20 | 47 | 2,5 | 40 | 50 | 60 | 63 | 14 | 15 |
| **ZC-100** | 100 | 18 | 20 | 11 | 401 | 76 | 96 | 20 | 55 | 2,5 | 50 | 60 | 70 | 71 | 17 | 19 |

## Trunnion ball-joint Mod. R



**Material:**
aluminium

Supplied with:
1x trunnion ball joint
4x screws




**+ = add the stroke**

| Mod. | Size | CX | L | DL+ | XN+ | MS | E | EX | EP | Z |
|---|---|---|---|---|---|---|---|---|---|---|
| **R-41-32** | 32 | 10 | 12 | 22 | 212 | 18 | 45 | 14 | 10.5 | 4° |
| **R-41-40** | 40 | 12 | 15 | 25 | 246 | 18 | 53,5 | 16 | 12 | 4° |
| **R-41-50** | 50 | 12* | 15 | 27 | 286 | 21 | 62,5 | 16* | 12* | 4° |
| **R-41-63** | 63 | 16 | 20 | 32 | 324,5 | 23 | 75 | 21 | 15 | 4° |
| **R-41-80** | 80 | 16* | 24 | 36 | 373 | 28 | 92 | 21* | 15* | 4° |
| **R-41-100** | 100 | 20 | 29 | 41 | 401 | 30 | 115 | 25 | 18 | 4° |
| **R-50** | 50 | 16 | 15 | 27 | 286 | 21 | 65 | 21 | 15 | 4° |
| **R-80** | 80 | 20 | 20 | 36 | 373 | 28 | 95 | 25 | 18 | 4° |

*This trunnion doesn't comply with the ISO 15552 standard



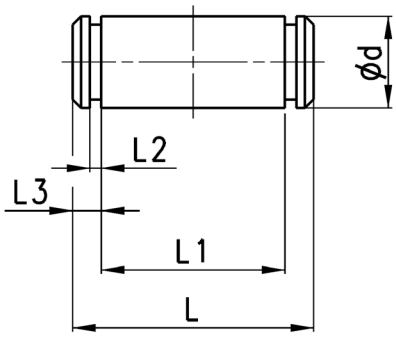
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## Clevis pin Mod. S



**Materials:**
Stainless steel Clevis pin,
Steel Seeger

Supplied with:
1x clevis pin
2x seeger in steel



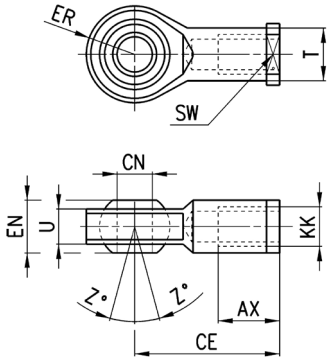

| Mod. | Size | øD | L | L1 | L2 | L3 |
|---|---|---|---|---|---|---|
| **S-32** | 32 | 10 | 52 | 46 | 1,1 | 3 |
| **S-40** | 40 | 12 | 59 | 53 | 1,1 | 3 |
| **S-50** | 50 | 12 | 67 | 61 | 1,1 | 3 |
| **S-63** | 63 | 16 | 77 | 71 | 1,1 | 3 |
| **S-80** | 80 | 16 | 97 | 91 | 1,1 | 3 |
| **S-100** | 100 | 20 | 121 | 111 | 1,3 | 5 |

## Swivel ball joint Mod. GA



**ISO 8139**

Material:
zinc-plated steel

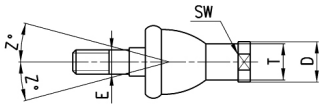


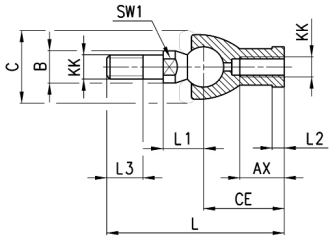

| Mod. | øCN | U | EN | ER | AX | CE | KK | øT | Z | SW |
|---|---|---|---|---|---|---|---|---|---|---|
| **GA-32** | 10 | 10,5 | 14 | 14 | 20 | 43 | M10x1,25 | 15 | 6,5 | 17 |
| **GA-40** | 12 | 12 | 16 | 16 | 22 | 50 | M12x1,25 | 17,5 | 6,5 | 19 |
| **GA-50-63** | 16 | 15 | 21 | 21 | 28 | 64 | M16x1,5 | 22 | 7,5 | 22 |
| **GA-80-100** | 20 | 18 | 25 | 25 | 33 | 77 | M20x1,5 | 27,5 | 7 | 30 |

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## Piston rod socket joint Mod. GY





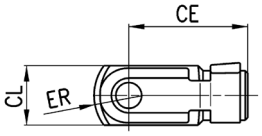

**ISO 8139**

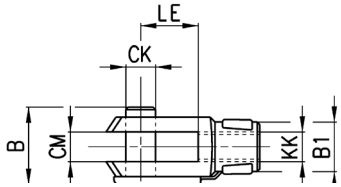
Material:
zama and zinc-plated steel

| Mod. | Size | KK | AX | CE | E | L | L1 | L2 | L3 | SW | SW1 | B | C | D | T | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GY-32** | 32 | M10x1,25 | 18 | 35 | 10 | 74 | 19,5 | 6,5 | 15 | 17 | 11 | 14 | 28 | 19 | 15 | 15 |
| **GY-40** | 40 | M12x1,25 | 20 | 40 | 12 | 84 | 21 | 6,5 | 17 | 19 | 17 | 19 | 32 | 22 | 17,5 | 15 |
| **GY-50-63** | 50-63 | M16x1,5 | 27 | 50 | 16 | 112 | 27,5 | 8 | 23 | 22 | 19 | 22 | 40 | 27 | 22 | 11 |
| **GY-80-100** | 80-100 | M20x1,5 | 38 | 63 | 20 | 133 | 31,5 | 10 | 25 | 30 | 24 | 27 | 45 | 34 | 27,5 | 7,5 |

## Rod fork end Mod. G





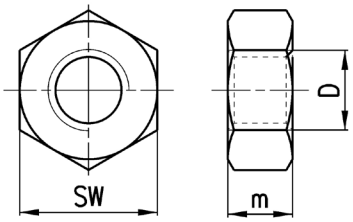

**ISO 8140**

Material:
zinc-plated steel

| Mod. | ø CK | LE | CM | CL | ER | CE | KK | B | ø B1 |
|---|---|---|---|---|---|---|---|---|---|
| **G-25-32** | 10 | 20 | 10 | 20 | 12 | 40 | M10x1,25 | 26 | 18 |
| **G-40** | 12 | 24 | 12 | 24 | 14 | 48 | M12x1,25 | 32 | 20 |
| **G-50-63** | 16 | 32 | 16 | 32 | 19 | 64 | M16x1,5 | 40 | 26 |
| **G-80-100** | 20 | 40 | 20 | 40 | 25 | 80 | M20x1,5 | 48 | 34 |

## Piston rod lock nut Mod. U






**UNI EN ISO 4035**

Material:
zinc-plated steel

| Mod. | D | m | SW |
|---|---|---|---|
| **U-25-32** | M10x1,25 | 6 | 17 |
| **U-40** | M12x1,25 | 7 | 19 |
| **U-50-63** | M16x1,5 | 8 | 24 |
| **U-80-100** | M20x1,5 | 9 | 30 |

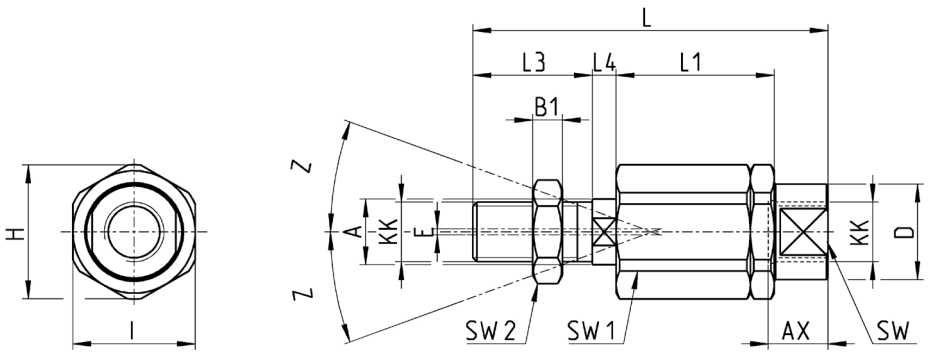


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## Self aligning rod Mod. GK



**Material:**
zinc-plated steel

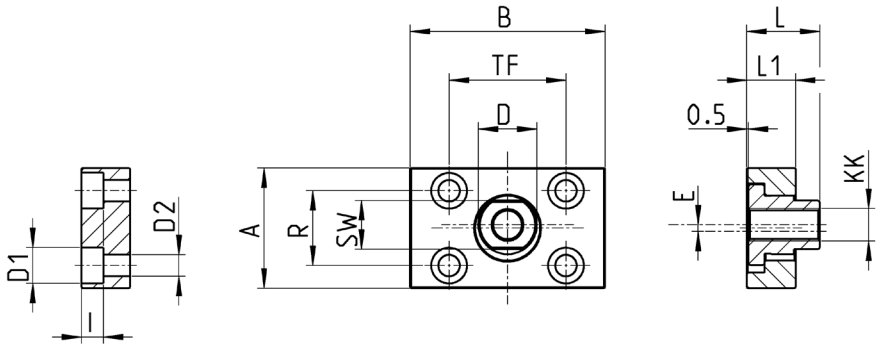



| Mod. | Size | KK | L | L1 | L3 | L4 | A | D | H | I | SW | SW1 | SW2 | B1 | AX | Z | E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GK-25-32** | 32 | M10x1,25 | 71,5 | 35 | 20 | 7,5 | 14 | 22 | 32 | 30 | 19 | 12 | 17 | 5 | 22 | 4 | 2 |
| **GK-40** | 40 | M12x1,25 | 75,5 | 35 | 24 | 7,5 | 14 | 22 | 32 | 30 | 19 | 12 | 19 | 6 | 22 | 4 | 2 |
| **GK-50-63** | 50-63 | M16x1,5 | 104 | 53 | 32 | 10 | 22 | 32 | 45 | 41 | 27 | 20 | 24 | 8 | 30 | 3 | 2 |
| **GK-80-100** | 80-100 | M20x1,5 | 119 | 53 | 40 | 10 | 22 | 32 | 45 | 41 | 27 | 20 | 30 | 10 | 37 | 3 | 2 |

## Coupling piece Mod. GKF



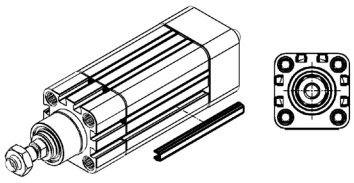
**Material:**
zinc-plated steel




| Mod. | Size | KK | A | B | R | TF | L | L1 | I | D | D1 | D2 | SW | E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GKF-25-32** | 32 | M10x1,25 | 37 | 60 | 23 | 36 | 22,5 | 15 | 6,8 | 18 | 11 | 6,6 | 15 | 2 |
| **GKF-40** | 40 | M12x1,25 | 56 | 60 | 38 | 42 | 22,5 | 15 | 9 | 20 | 15 | 9 | 15 | 2,5 |
| **GKF-50-63** | 50-63 | M16x1,5 | 80 | 80 | 58 | 58 | 26,5 | 15 | 10,5 | 25 | 18 | 11 | 22 | 2,5 |
| **GKF-80-100** | 80-100 | M20x1,5 | 90 | 90 | 65 | 65 | 32,5 | 20 | 13 | 30,5 | 20 | 14 | 27 | 2,5 |

## Slot cover profile Mod. S-CST-500

**Supplied with 500 mm tube**



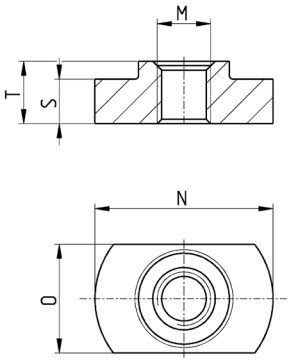
| Mod. | |
|---|---|
| **S-CST-500** | 500 |

## Slot nut for sensor Mod. PCV



**Material: steel**

Supplied with:
2x nuts




| Mod. | Size | M | N | O | S | T |
|---|---|---|---|---|---|---|
| **PCV-5E-CS-M3** | 50 - 65 - 80 | M3 | 10,3 | 6,1 | 2,5 | 3,5 |
| **PCV-5E-CS-M4** | 50 - 65 - 80 | M4 | 10,3 | 6,1 | 2,5 | 3,5 |

## GUIDE MOD. 45NUT, 45NHT, 45NHB

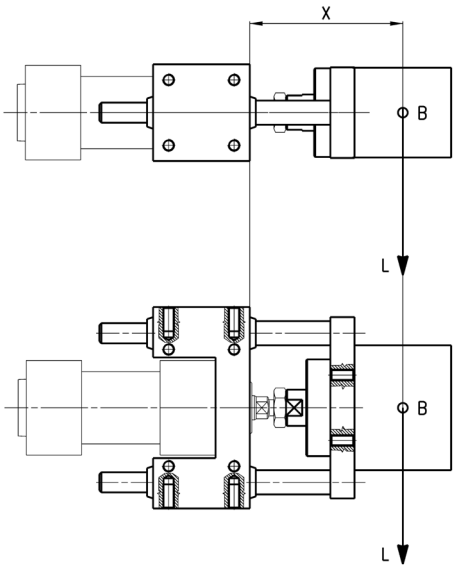
| 45 | N | UT | 050 | A | 0100 |
|---|---|---|---|---|---|

| | |
|---|---|
| **45** | SERIES |
| **N** | VERSION<br>N = standard |
| **UT** | OPERATION<br>UT = "U" self lubricating guide<br>HT = "H" self lubricating guide<br>HB = "H" ball guide |
| **050** | SIZE<br>032 = 32<br>040 = 40<br>050 = 50<br>063 = 63 |
| **A** | MATERIALS<br>A = anodized aluminium body - stainless steel AISI 420B columns for 45UT and 45HT - hardened steel C50 columns for 45HB |
| **0100** | STROKE in mm |

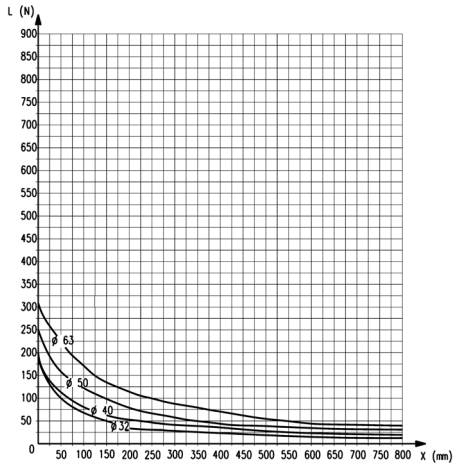


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## 45NUT GUIDES - Applicable loads depending on projection

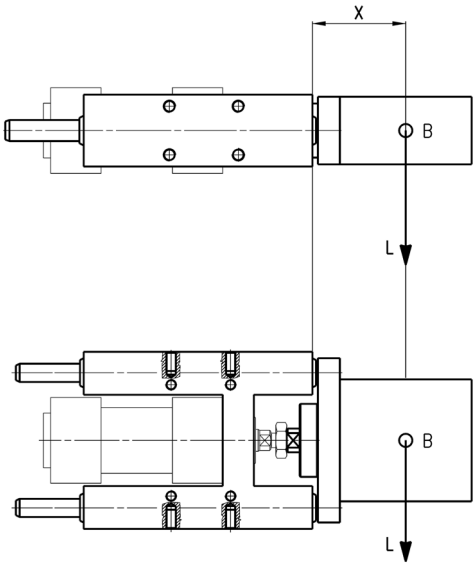



B = centre of gravity for applied load
L = load
X = fixed projection + stroke
fixed projection = distance to the centre of gravity

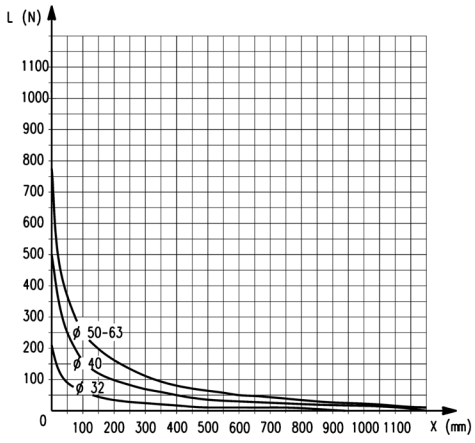



Guide "U" moving on bush (45NUT)

## 45NHB GUIDES - Applicable loads depending on projection

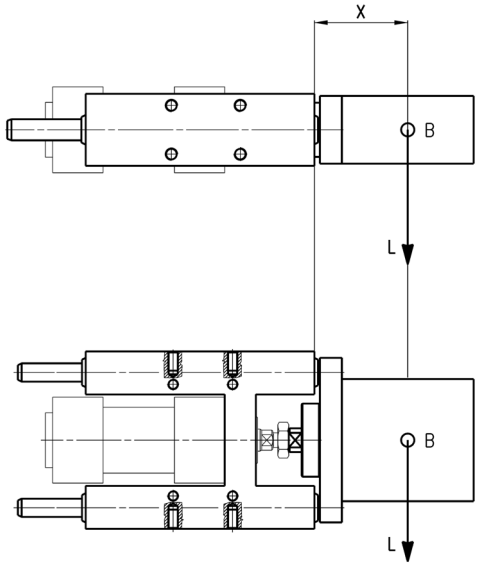



B = centre of gravity for applied load
L = load
X = fixed projection + stroke
fixed projection = distance to the centre of gravity

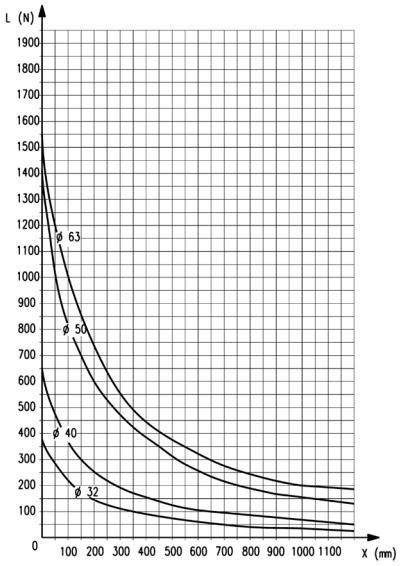



Guide "HB" with linear ball bearing (45NHB)

## 45NHT GUIDES - Applicable loads depending on projection




**B = centre of gravity for applied load**
**L = load**
**X = fixed projection + stroke**
**fixed projection = distance to the centre of gravity**



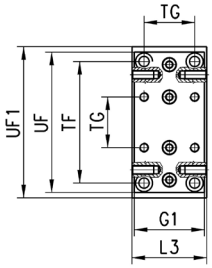

**Guide "HT" moving on bush (45NHT)**

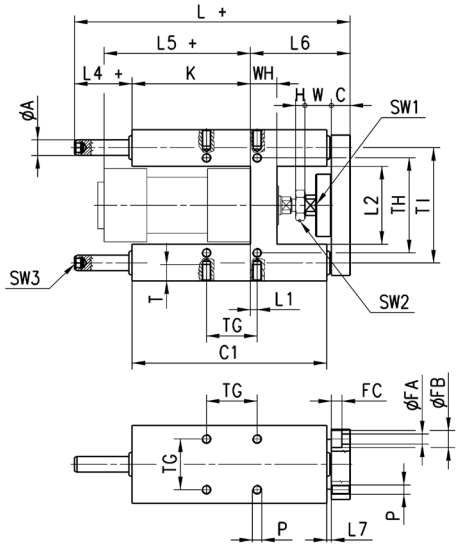
## Guides Mod. 45NHT for cylinders Series 6E



**Material body:**
anodized aluminium
Coupling:
stainless steel AISI 303

Supplied with:
4x fixing screws




**+ = add the stroke**

| Ø | TF | TG | TH | TI | UF | G1 | UF1 | øA | WH | C1 | H | W | C | K | L | L1 | L2 | L3 | L4 | L5 | L6 | L7 | P | T | øFA | øFB | FC | SW1 | SW2 | SW3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **32** | 78 | 32,5 | 61 | 74 | 90 | 45 | 97 | 12 | 17 | 125 | 6 | 17 | 12 | 76 | 177 | 4,3 | 50,2 | 50 | 37 | 94 | 64 | 3 | M6 | 14 | 6,5 | 11 | 6,8 | 13 | 17 | 6 |
| **40** | 84 | 38 | 69 | 87 | 110 | 54 | 115 | 16 | 21 | 140 | 7 | 22 | 12 | 81 | 192 | 11 | 58,2 | 58 | 37 | 105 | 74 | 3 | M6 | 14 | 6,5 | 11 | 6,8 | 15 | 19 | 6 |
| **50** | 100 | 46,5 | 85 | 104 | 130 | 63 | 137 | 20 | 26 | 149 | 8 | 26 | 15 | 78,5 | 205 | 19,8 | 70,2 | 70 | 37,5 | 106 | 89 | 3 | M8 | 16 | 9 | 15 | 9 | 22 | 24 | 6 |
| **63** | 105 | 56,5 | 100 | 119 | 145 | 80 | 152 | 20 | 26 | 178 | 8 | 26 | 15 | 111 | 237 | 15,3 | 85,2 | 85 | 37 | 121 | 89 | 7 | M8 | 16 | 9 | 15 | 9 | 22 | 24 | 6 |



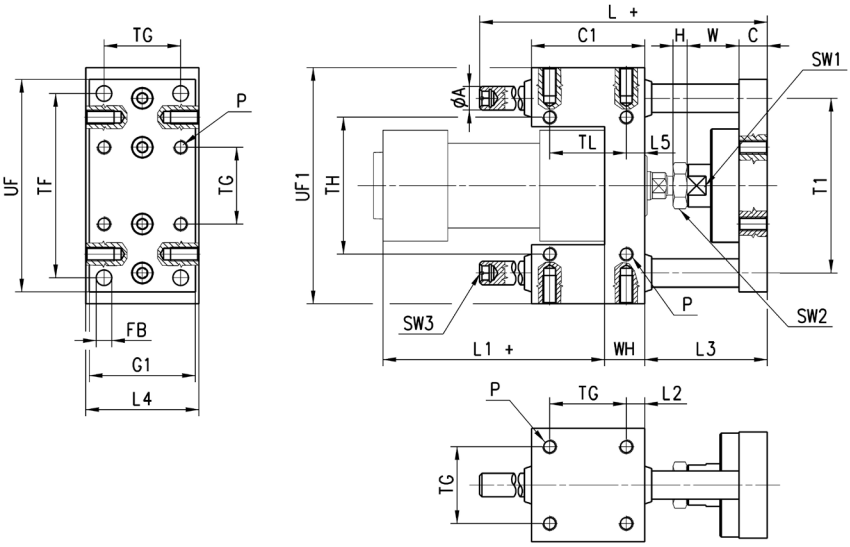
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## Guides Mod. 45NUT for cylinders Series 6E



**Material body:**
anodized aluminium
Coupling:
stainless steel AISI 303

Supplied with:
4x fixing screws




**+ = add the stroke**

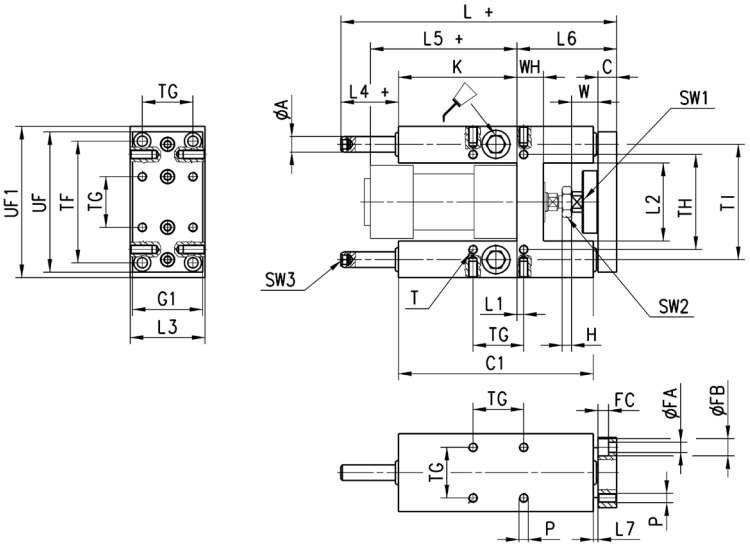
| Ø | TF | TG | TH | øA | T1 | P | øFB | UF | G1 | UF1 | L | C1 | H | W | C | L1 | WH | L2 | L3 | L4 | L5 | TL | SW1 | SW2 | SW3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **32** | 78 | 32,5 | 58 | 12 | 74 | M6 | 6,6 | 90 | 45 | 100 | 106 | 48 | 6 | 22 | 12 | 94 | 17 | 7,8 | 52 | 48 | 7,8 | 32,5 | 15 | 17 | 6 |
| **40** | 84 | 38 | 64 | 12 | 80 | M6 | 6,6 | 100 | 50 | 106 | 117 | 58 | 7 | 22 | 12 | 105 | 21 | 10 | 53 | 56 | 10 | 38 | 15 | 19 | 6 |
| **50** | 100 | 46,5 | 80 | 16 | 96 | M8 | 9 | 120 | 60 | 125 | 129 | 59 | 8 | 26 | 15 | 106 | 25 | 6,2 | 64 | 66 | 6,3 | 46,5 | 22 | 24 | 6 |
| **63** | 105 | 56,5 | 95 | 16 | 104 | M8 | 9 | 125 | 70 | 132 | 146 | 76 | 8 | 26 | 15 | 121 | 25 | 9,8 | 64 | 76 | 9,8 | 56,5 | 22 | 24 | 6 |

## Guides Mod. 45NHB for cylinders Series 6E



**Material body:**
anodized aluminium
Coupling:
stainless steel AISI 303

Supplied with:
4x fixing screws




**+ = add the stroke**

| Ø | TF | TG | TH | TI | UF | G1 | UF1 | øA | WH | C1 | H | W | C | K | L | L1 | L2 | L3 | L4 | L5 | L6 | L7 | P | T | øFA | øFB | FC | SW1 | SW2 | SW3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **32** | 78 | 32,5 | 61 | 74 | 90 | 45 | 97 | 12 | 17 | 125 | 6 | 17 | 12 | 76 | 177 | 4,3 | 50,2 | 50 | 37 | 94 | 64 | 3 | M6 | 14 | 6,5 | 11 | 6,8 | 13 | 17 | 6 |
| **40** | 84 | 38 | 69 | 87 | 110 | 54 | 115 | 16 | 21 | 140 | 7 | 22 | 12 | 81 | 192 | 11 | 58,2 | 58 | 37 | 105 | 74 | 3 | M6 | 14 | 6,5 | 11 | 6,8 | 15 | 19 | 6 |
| **50** | 100 | 46,5 | 85 | 104 | 130 | 63 | 137 | 20 | 26 | 149 | 8 | 26 | 15 | 78,5 | 237 | 19,8 | 70,2 | 70 | 69,5 | 106 | 89 | 3 | M8 | 16 | 9 | 15 | 9 | 22 | 24 | 6 |
| **63** | 105 | 56,5 | 100 | 119 | 145 | 80 | 152 | 20 | 26 | 178 | 8 | 26 | 15 | 111 | 237 | 15,3 | 85,2 | 85 | 37 | 121 | 89 | 7 | M8 | 16 | 9 | 15 | 9 | 22 | 24 | 6 |

ELECTROMECHANICAL CYLINDERS
SERIES 6E - CODING EXAMPLE

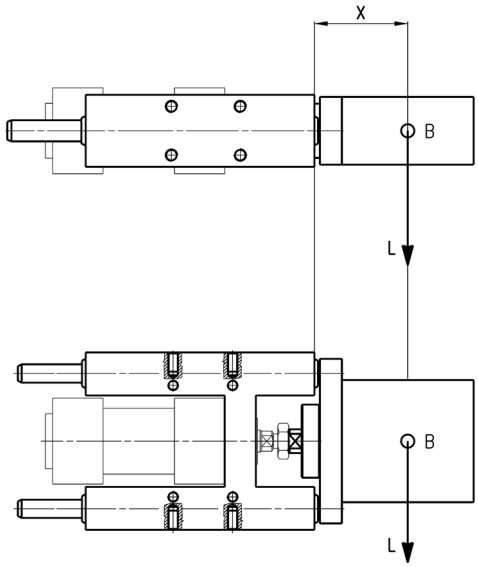


## Guide MOD. 6ENHT

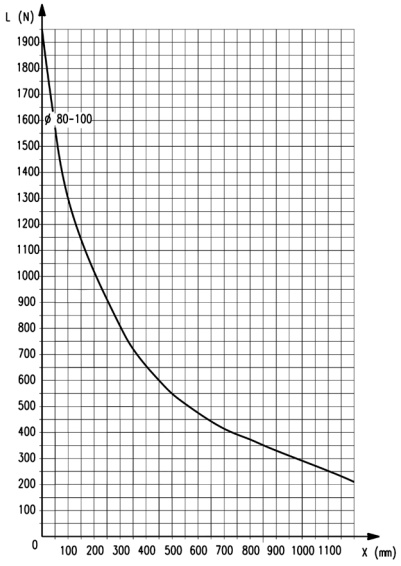
| 6EN | HT | 080 | A | 0100 |
|---|---|---|---|---|

| | |
|---|---|
| **6EN** | MODEL |
| **HT** | OPERATION<br>HT = "H" self lubricating guide |
| **080** | BORE<br>080 = 80<br>100 = 100 |
| **A** | MATERIALS<br>A = anodized aluminium body - stainless steel AISI 420B columns for 45UT and 45HT - hardened steel C50 columns for 45HB |
| **0100** | STROKE in mm |

## 6ENHT GUIDES - Applicable loads depending on projection




**B = centre of gravity for applied load**
**L = load**
**X = fixed projection + stroke**
**fixed projection = distance to the centre of gravity**



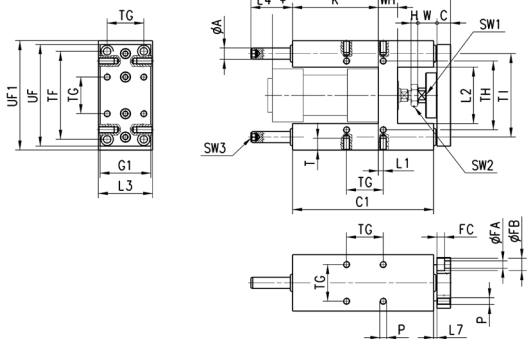

**Guide "HT" moving on bush (45NHT)**

## Guides Mod. 6ENHT



**Material Body:**
anodized aluminium
Coupling:
stainless steel AISI 303

Supplied with:
4x fixing screws




**+ = add the stroke**

| Ø | TF | TG | TH | TI | UF | G1 | UF1 | øA | WH | C1 | H | W | C | K | L | L1 | L2 | L3 | L4 | L5 | L6 | L7 | P | T | øFA | øFB | FC | SW1 | SW2 | SW3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **80** | 130 | 72 | 130 | 148 | 180 | 100 | 189 | 25 | 34 | 195 | 9 | 32 | 20 | 128 | 280 | 21 | 105,4 | 105 | 42 | 128 | 110 | 23 | M10 | 20 | 11 | 18 | 11 | 27 | 30 | 6 |
| **100** | 150 | 89 | 150 | 172 | 200 | 120 | 213 | 25 | 39 | 220 | 9 | 32 | 20 | 128 | 280 | 24,5 | 130,4 | 130 | 37 | 138 | 115 | 3 | M10 | 20 | 11 | 18 | 11 | 27 | 30 | 6 |



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