

# Vérins électriques de précision T60

Precision Linear Actuators

[www.rosier.fr](http://www.rosier.fr)

## T60

Ball Screw Drive, Slide Guide



### Standard Features and Benefits

- Compact, robust and reliable
- High accuracy ball screw drive
- Stroke up to 1500 mm
- Load up to 10000 N
- Speed up to 2,5 m/s
- Hard chromed steel extension tube
- IP65 as standard
- Mounting accessories according to hydraulic cylinder standards available.

### General Specifications

| Parameter                 | T60                                |
|---------------------------|------------------------------------|
| Profile size (w × h) [mm] | 75 × 60                            |
| Type of screw             | ball screw with single nut         |
| Protection class          | IP65                               |
| Lubrication               | One point lubrication of ballscrew |
| Included accessories      | –                                  |

### Rod Idle Torque (M<sub>idle</sub>) [Nm]

| Input speed [rpm] | Screw lead (p) [mm] |        |        |        |
|-------------------|---------------------|--------|--------|--------|
|                   | p = 5               | p = 10 | p = 25 | p = 50 |
| 500               | 1,5                 | 1,5    | 2      | 3,5    |

M<sub>idle</sub> = the input torque needed to move the rod with no load on it.

### Performance Specifications

| Parameter  |                     | T60                        |
|--|---------------------|----------------------------|
| Stroke length (S max), maximum                                     | [mm]                | 1500                       |
| Linear speed, maximum  | [m/s]               | 2,5                        |
| Acceleration, maximum  | [m/s <sup>2</sup> ] | 20                         |
| Repeatability  | [± mm]              | 0,05                       |
| Input speed, maximum   | [rpm]               |                            |
| screw diameter/lead 25/10, 25/25                                   |                     | 4000                       |
| screw diameter/lead 25/05, 25/50                                   |                     | 3000                       |
| Operation temperature limits                                       | [°C]                | -20 – 70                   |
| Dynamic load (F <sub>x</sub> ), maximum                            | [N]                 | 10000                      |
| Dynamic load (F <sub>y</sub> ), maximum                            | [N]                 | 100                        |
| Dynamic load (F <sub>z</sub> ), maximum                            | [N]                 | 100                        |
| Dynamic load torque (M <sub>z</sub> , M <sub>y</sub> ), max.       | [Nm]                | 50                         |
| Drive shaft force (F <sub>rd</sub> ), maximum                      | [N]                 | 1000                       |
| Drive shaft torque (M <sub>ta</sub> ), maximum                     | [Nm]                | 48                         |
| Screw versions, diameter (d <sub>0</sub> ) / lead (p)              | [mm]                | 25/05, 25/10, 25/25, 25/50 |
| Weight of units of unit with zero stroke of every 100 mm of stroke | [kg]                | 5,20<br>0,95               |

<sup>1</sup> Value for the complete unit

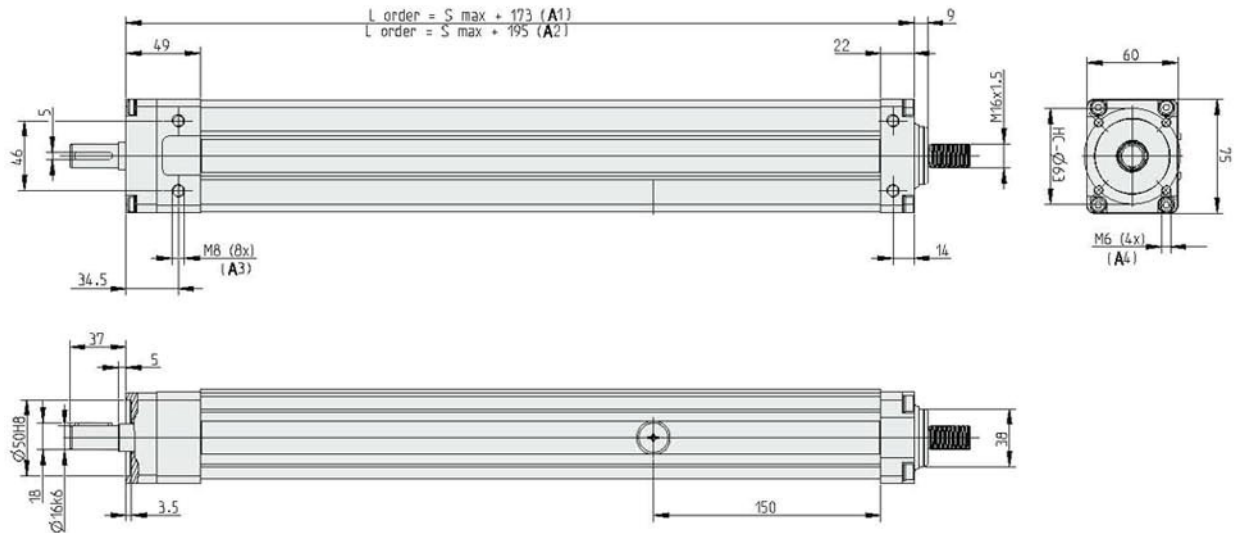
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A1: screw 25/05 and 25/25  
A2: screw 25/10 and 25/50  
A3: depth 10  
A4: depth 20



13 rue Sigmund Freud  
69120 Vaulx en Velin  
Tél. : 04 72 04 68 61

[contact@rosier.fr](mailto:contact@rosier.fr)

[www.rosier.fr](http://www.rosier.fr)

**Agence Paris**

Tél. 01 30 25 12 02

Fax 01 30 25 12 27