

TL14

series



Product Segments

• Ergo Motion

TiMOTION's TL14 series lifting columns are specifically designed for use in ergonomic desks and work tables. Using multiple TL series lifting columns with compatible TC series Control Boxes and TH/TDH series controls, work surfaces can be controlled quietly and smoothly with synchronous movement. All Ergo Motion TC series control boxes have a less than 0.1W standby power option that reduces power consumption. Our wide range of columns offer customers the solutions they require to satisfy their working environment project requirements. The TL14 has a two stage telescopic outer tube that is designed for a narrow-top, wide-bottom round appearance.

General Features

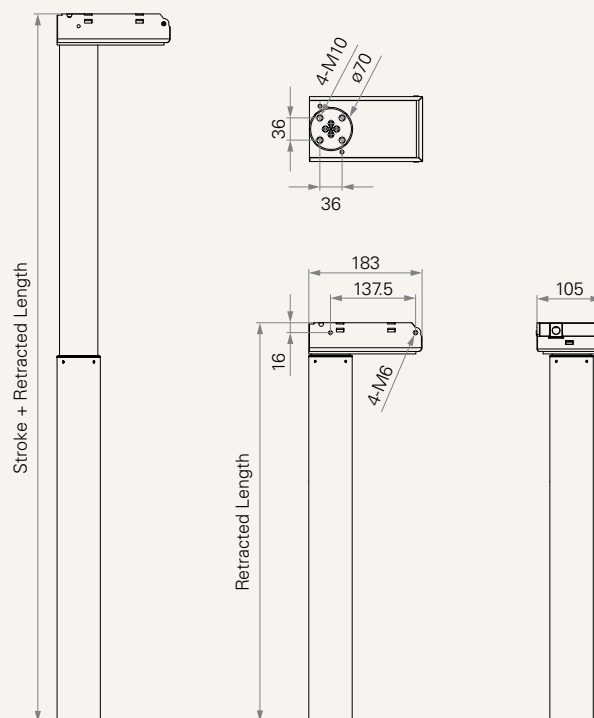
| | |
|-------------------------|--|
| Max. load | 800N (push) |
| Max. speed at max. load | 28mm/s |
| Max. speed at no load | 46mm/s |
| Retracted length | Standard (compatible with foot): 645mm Extended (compatible with shoe): 665mm |
| Dimension of outer tube | Ø70mm round |
| Stages | 2-stage |
| Stroke | 500mm |
| Output signals | Hall sensors |
| Voltage | 24V DC |

With motor house

The TL14 can only be used in pairs; single column usage is not recommended

Drawing

Standard Dimensions
(mm)



Load and Speed

| CODE | Load (N) | Self Locking Force (N) | Typical Current (A) | | Typical Speed (mm/s) | |
|-----------------------|----------|------------------------|---------------------|---------------------|----------------------|---------------------|
| | Push | | No Load 32V DC | With Load 24V DC | No Load 32V DC | With Load 24V DC |
| Motor Speed (5200RPM) | | | | | | |
| A | 800 | 800 | 2.5 | 5.0 | 46.0 | 28.0 |

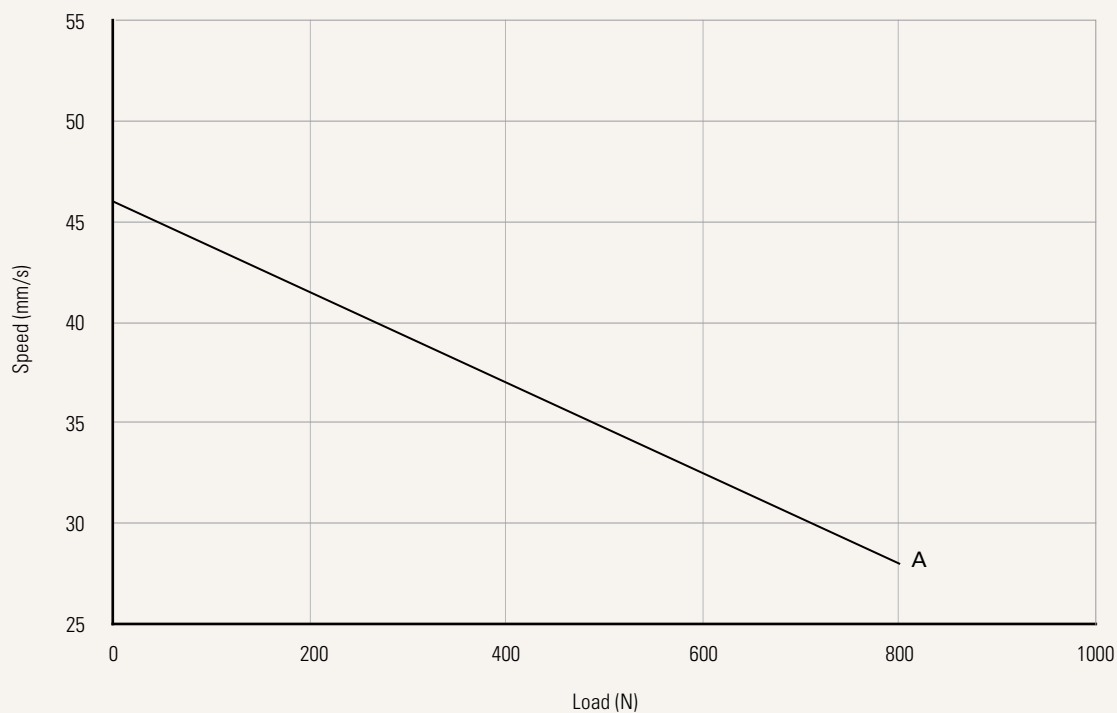
Note

- 1 This self-locking force level is reached only when a short circuit is applied on the terminals of the motor. All the TiMOTION control boxes have this feature built-in.
- 2 The numbers above are based on the tested average, please refer to the approval drawing for the final value.

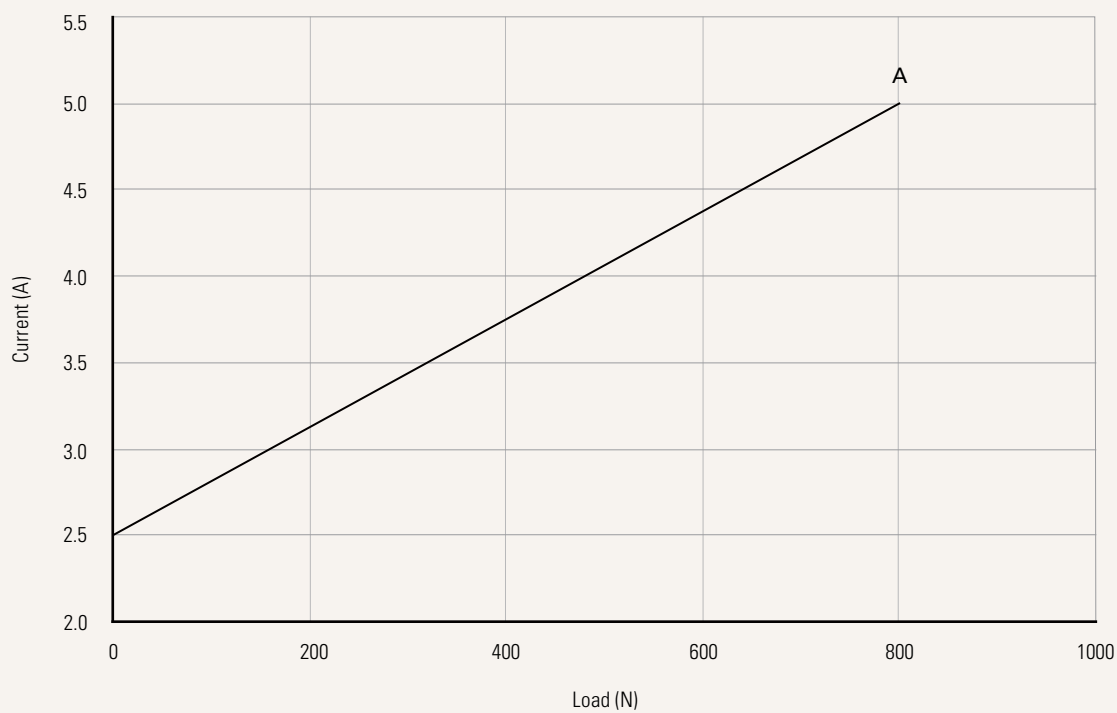
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



Note

1 The performance data in the curve charts shows theoretical value.

| | | |
|--|---|--|
| Appearance of Tubes | B = With wiper fixing holes at sides | C = Without wiper fixing holes at sides |
| Voltage | 2 = 24V | |
| Load and Speed | See page 2 | |
| Stroke & Retracted Length (mm) | See page 5 | |
| Color | 1 = Black RAL 9005, black wiper 2 = Grey RAL 9006, black wiper 3 = White RAL 9016, black wiper 4 = Special grey RAL 9022, black wiper 6 = Grey RAL 9006, grey wiper | 7 = White RAL 9016, white wiper 8 = Special grey RAL 9022, grey wiper B = Matte black, RAL 7021, Black wiper C = Graphite grey RAL7024, Black wiper D = Matte black, RAL 7021, Matte Black wiper |
| Motor Housing Step | 0 = With | 1 = Without |
| Output Signals | 2 = Hall sensors*2 | |
| Connector See page 5 | 1 = DIN 6P, 90° plug | E = Molex 8P, plug, standard |
| Cable Length (mm) | 1 = Straight, 500 | 4 = Straight, 1500 |
| Welding Part | 0 = Without | |

Note

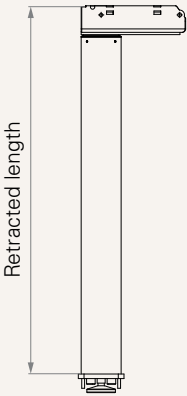
¹ The TL is designed especially for push applications, not suitable for pull applications.

Stroke & Retracted Length (mm)

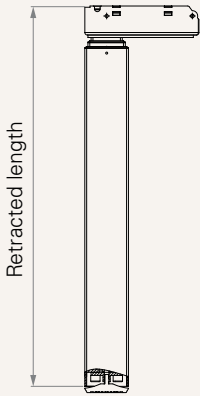
| Foot Assembly | Stroke / Retracted Length |
|---------------|---------------------------|
| | Standard |
| Standard | 500 / 645 |
| With Shoes | 500 / 665 |

Foot Assembly

Standard

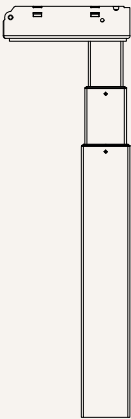


With shoes

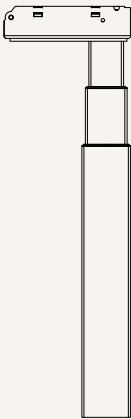


Appearance of Tubes

B = With wiper fixing holes at sides

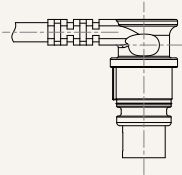


C = Without wiper fixing holes at sides

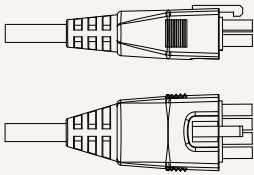


Connector

1 = DIN 6P, 90° plug



E = Molex 8P, plug, standard



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