

# TL28

series



## Product Segments

- **Ergo Motion**

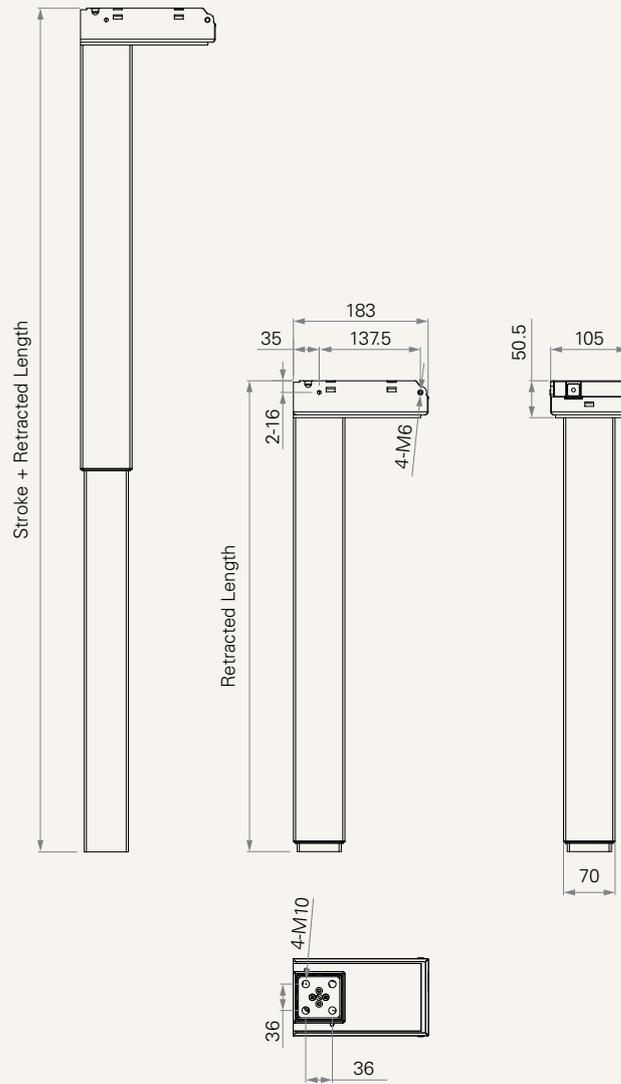
TiMOTION's TL28 series lifting columns are specifically designed for use in ergonomic desks and work tables. Using multiple TL series lifting columns with compatible TC series control boxes and TH/TDH series controls, work surfaces can be controlled quietly and smoothly with synchronous movement. All Ergo Motion TC series control boxes have a less than 0.1W standby power option that reduces power consumption. Our wide range of columns offers customers the solutions they require to satisfy their project requirements. The TL28 has a two stage telescopic outer tube that is designed for a wide-top, narrow-bottom square appearance. One single TL28 can lift maximum 80KG. Various powder coating is available.

### General Features

Max. load	800N (push)
Max. speed at max. load	28mm/s
Max. speed at no load	46mm/s
Retracted length	645mm
Dimension of outer tube	2-stage, 70*70mm square, upside down
Stroke	500mm

**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)**

<b>A</b>	800	800	2.5	5.0	46.0	28.0
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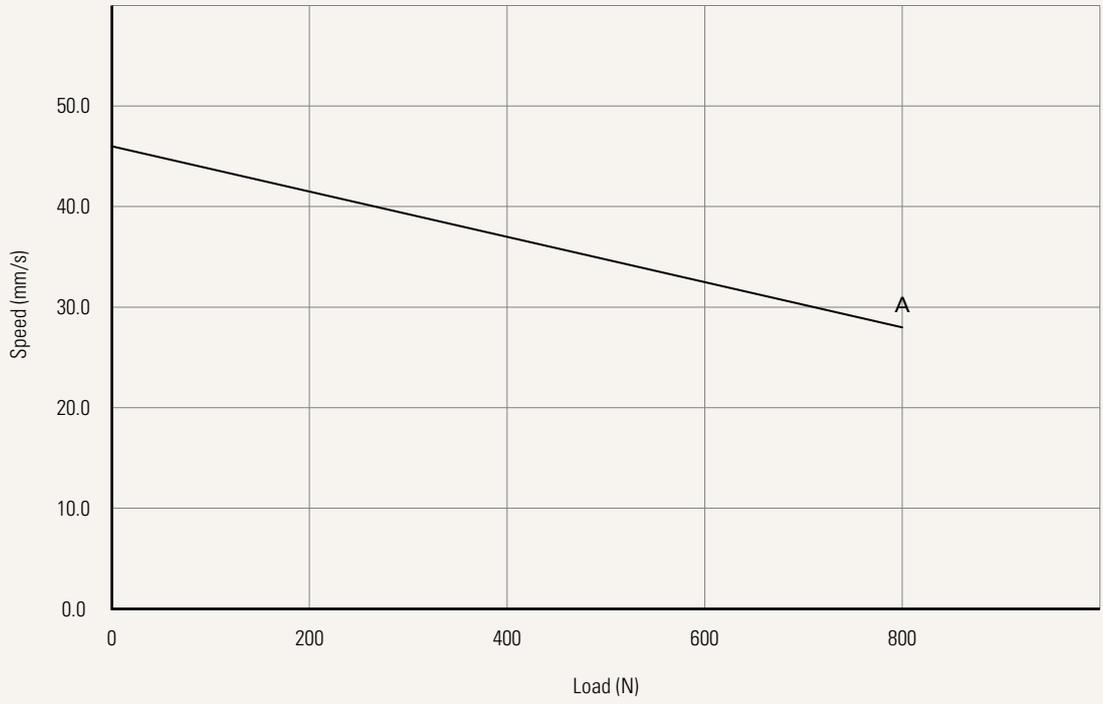
**Note**

- 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 Parameters above are from tested average, please refer to approval drawing for final value.

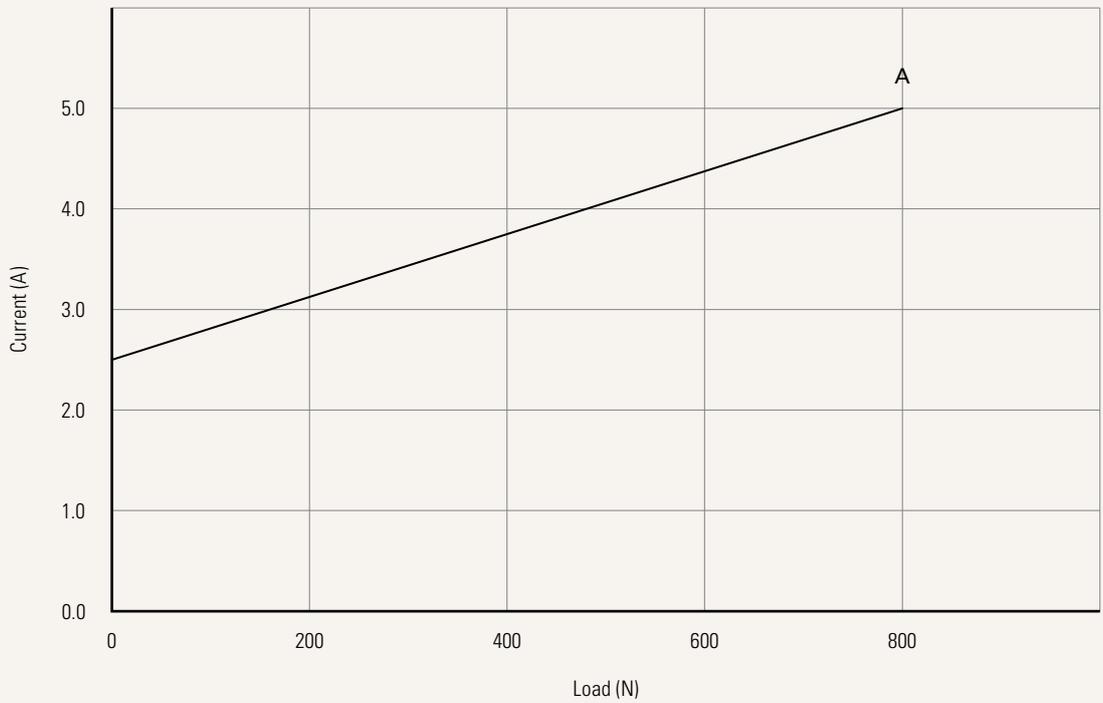
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



Note

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

<b>Appearance of Tubes</b>	C = Without wiper fixing holes at sides		
<b>Voltage</b>	2 = 24V DC		
<b>Load and Speed</b>	<a href="#">See page 2</a>		
<b>Stroke &amp; Retracted Length (mm)</b>	<a href="#">See page 5</a>		
<b>Color</b>	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	
<b>Motor Housing Step</b>	0 = With	1 = Without	
<b>Output Signals</b>	2 = Hall sensor * 2		
<b>Connector</b> <a href="#">See page 5</a>	1 = DIN 6P, 90° plug E = Molex 8P, 180°plug, standard	F = Molex 8P, 90°plug, without anti-clip, for TC22/TC23	
<b>Cable Length (mm)</b>	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500
<b>Welding Part</b>	0 = Without		

### Note

1 The TL28 is designed especially for push applications, not suitable for pull applications.

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## Stroke & Retracted Length (mm)

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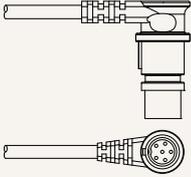
### A. Stroke & Retracted Length

500 / 645

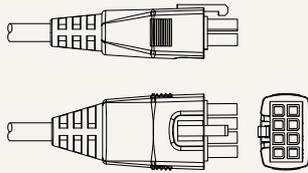
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## Connector

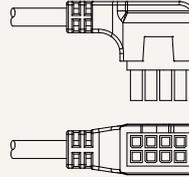
1 = DIN 6P, 90° plug



E = Molex 8P, 180° plug, standard



F = Molex 8P, 90° plug, without anti-clip, for TC22 / TC23



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## Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application. TiMOTION products are subject to change without prior notice.