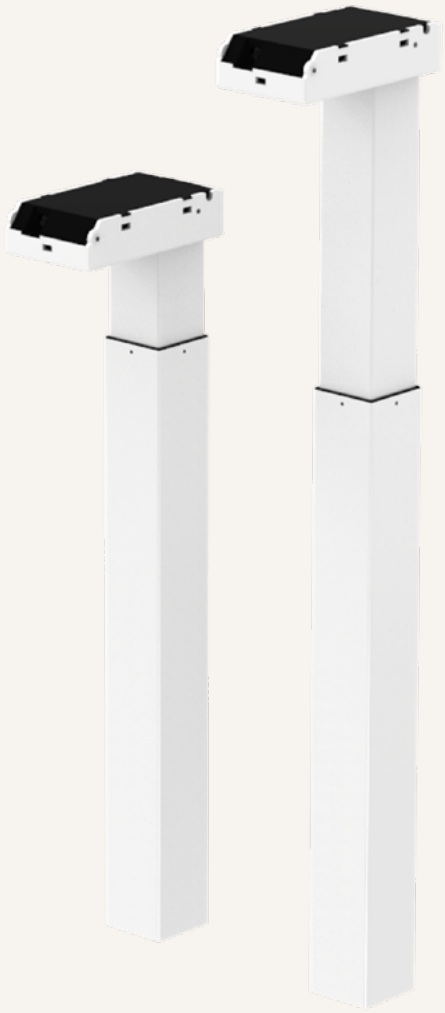
TL13S

series



Product Segments

- **Ergo Motion**

TiMOTION's TL13S 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 TL13S has a two stage telescopic outer tube that is designed for a narrow-top, wide-bottom square appearance.

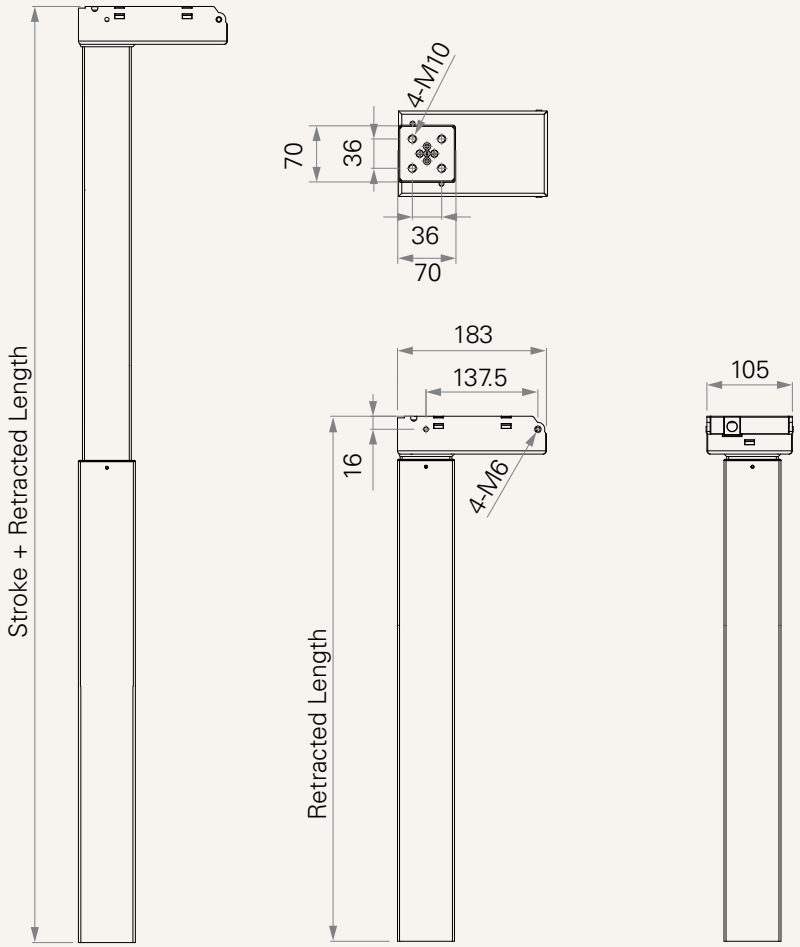
General Features

Maximum load	600N in push
Maximum speed at full load	24mm/s (with 600N in a push condition)
Minimum installation dimension	645mm
Stroke	500mm
Dimension of outer tube (L*W)	70*70mm

Two stage outer tube with square appearance
Narrow top and wide bottom configuration

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, short motor)						
A	600	600	2.0	4.2	40.0	24.0

Note

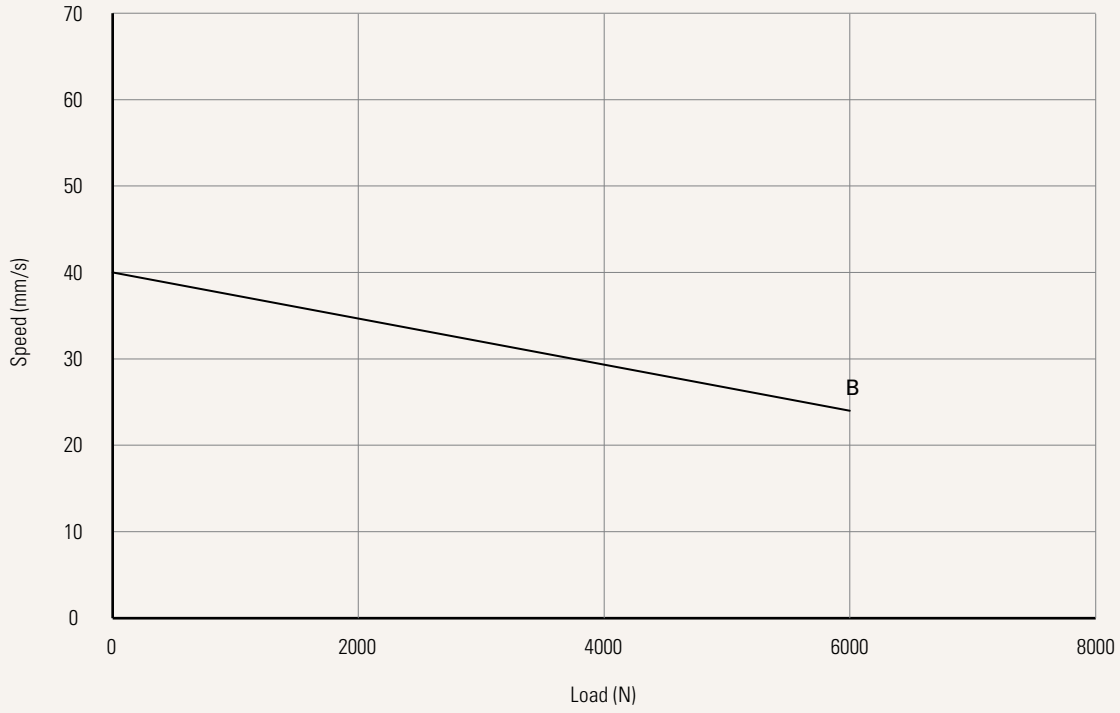
1 This self-locking force level is reached only when a short circuit is applied on the terminals of the motor. All the TiMOTION control boxes have this feature built-in.

2 The numbers above are based on the tested average, please refer to the approval drawing for the final value.

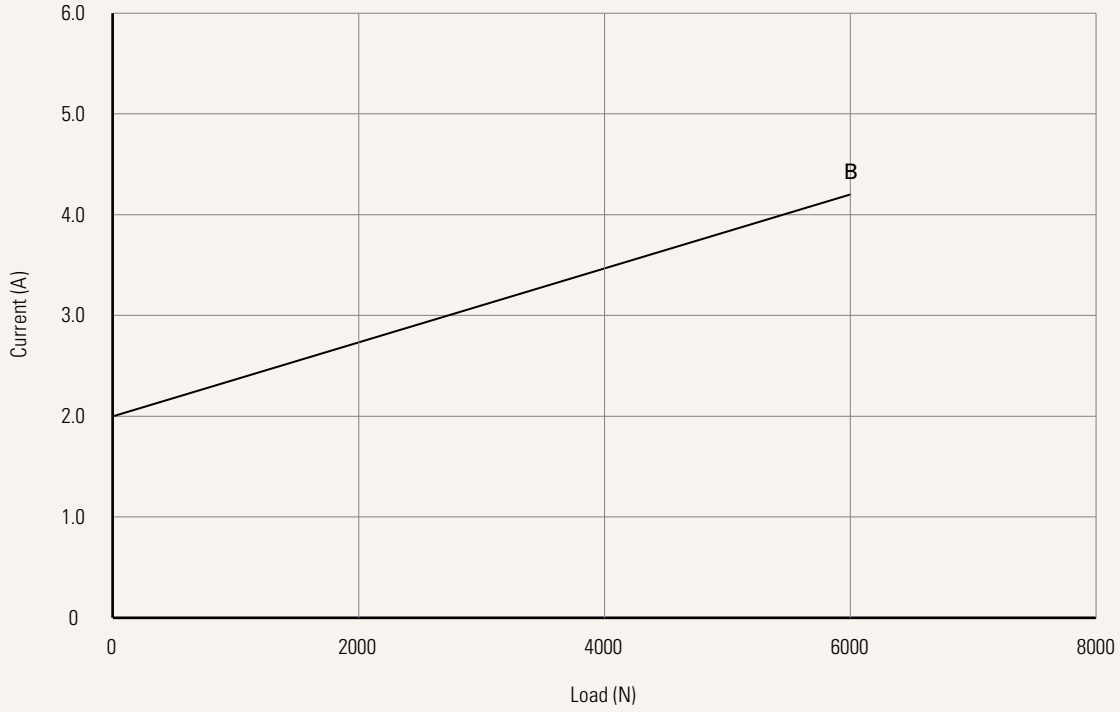
Performance Data (24V DC Motor)

Motor Speed (5200RPM, short motor)

Speed vs. Load



Current vs. Load



Note

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

TL13S Ordering Key

TiMOTION

TL13S

Version: 20181114-B

Appearance of Tubes	B = With wiper fixing holes at sides		B = With wiper fixing holes at sides
Voltage	2 = 24VDC		
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) C = Graphite grey (RAL 7024)
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 See page 5	0 = Without L = Left	R = Right F = Front	B = Back

Note

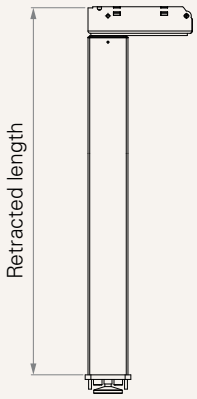
1 The TL13S is designed especially for push applications, not suitable for pull applications.

TL13S Ordering Key Appendix

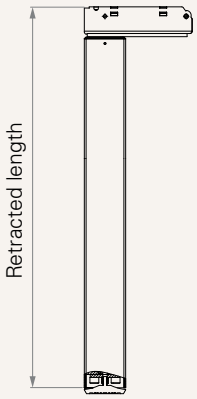
Stroke & Retracted Length (mm)

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

Standard



With shoes

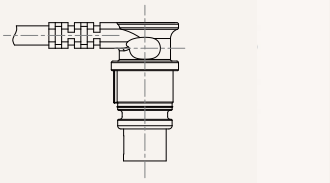


Note

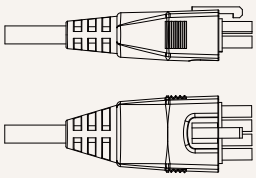
1 Only specific TEKs can be used with the shoes, please refer to the TEK spec code.

Connector

1 = DIN 6P, 90° plug

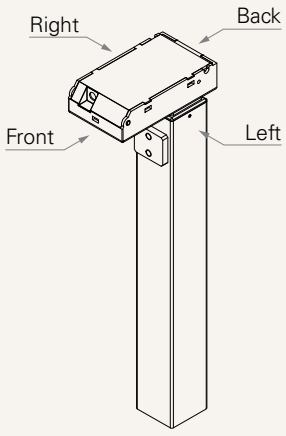


E = Molex 8P, plug, standard



Welding Part

Direction



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