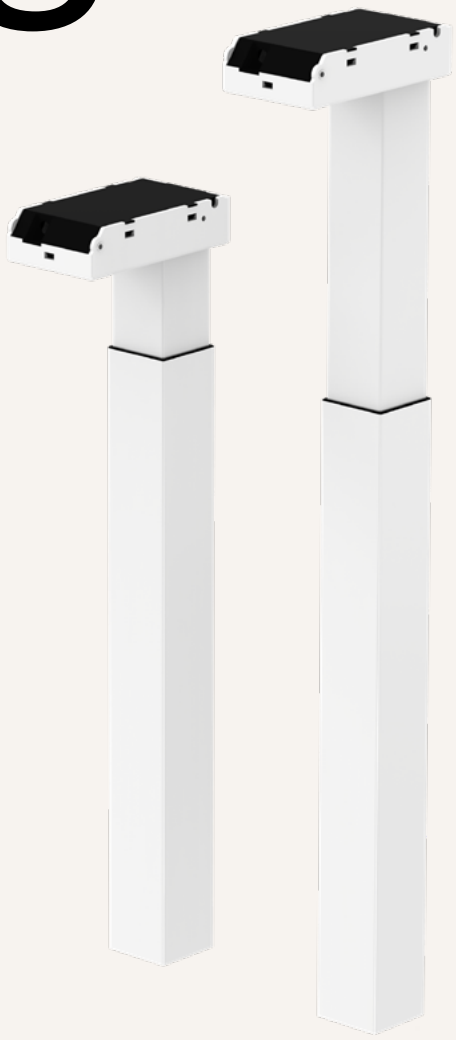
TL13S

series



Product Segments

- **Ergo Motion**

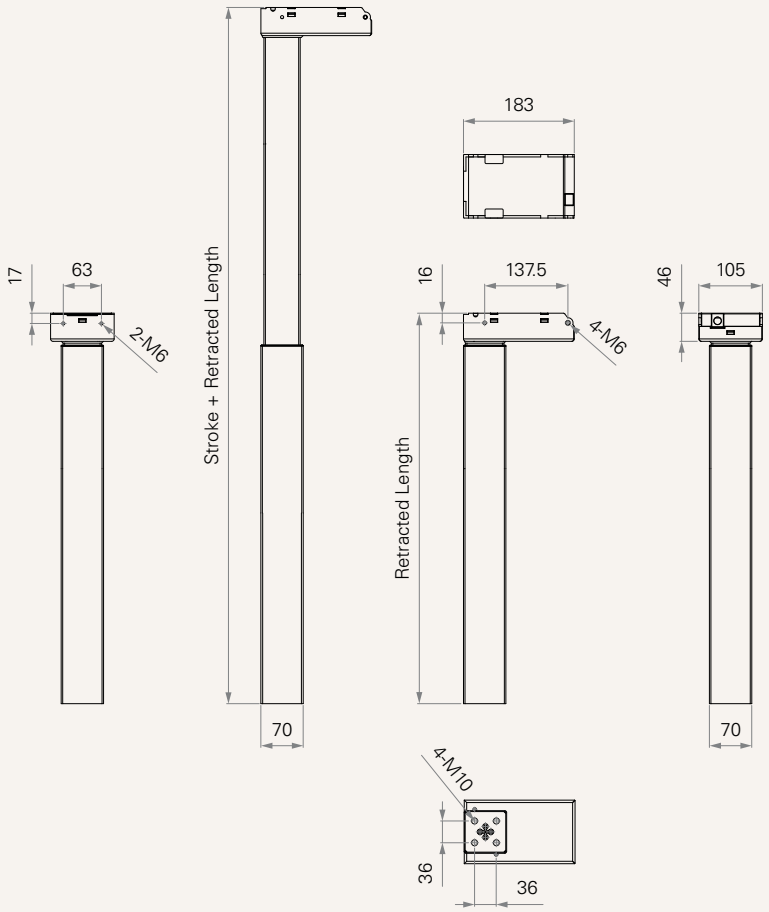
TiMOTION's TL13S series lifting columns are specifically designed for use inergonomic desks and work tables. Using multiple TL series lifting columns with compatible TC series control boxes and TH / TDH series controls, work surfaces can be controlled quietly and smoothly with synchronous movement. All 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

Max. load	700N (push)
Max. speed at max. load	30mm/s
Max. speed at no load	38mm/s
Retracted length	Standard (compatible with foot): 645mm Extended (compatible with shoe): 665mm
Dimension of outer tube	70*70mm square
Stages	2-stage
Stroke	500mm
Output signals	Hall sensors
Voltage	24V DC
With motor house	

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)						
B	700	700	2.0	4.2	38.0	30.0

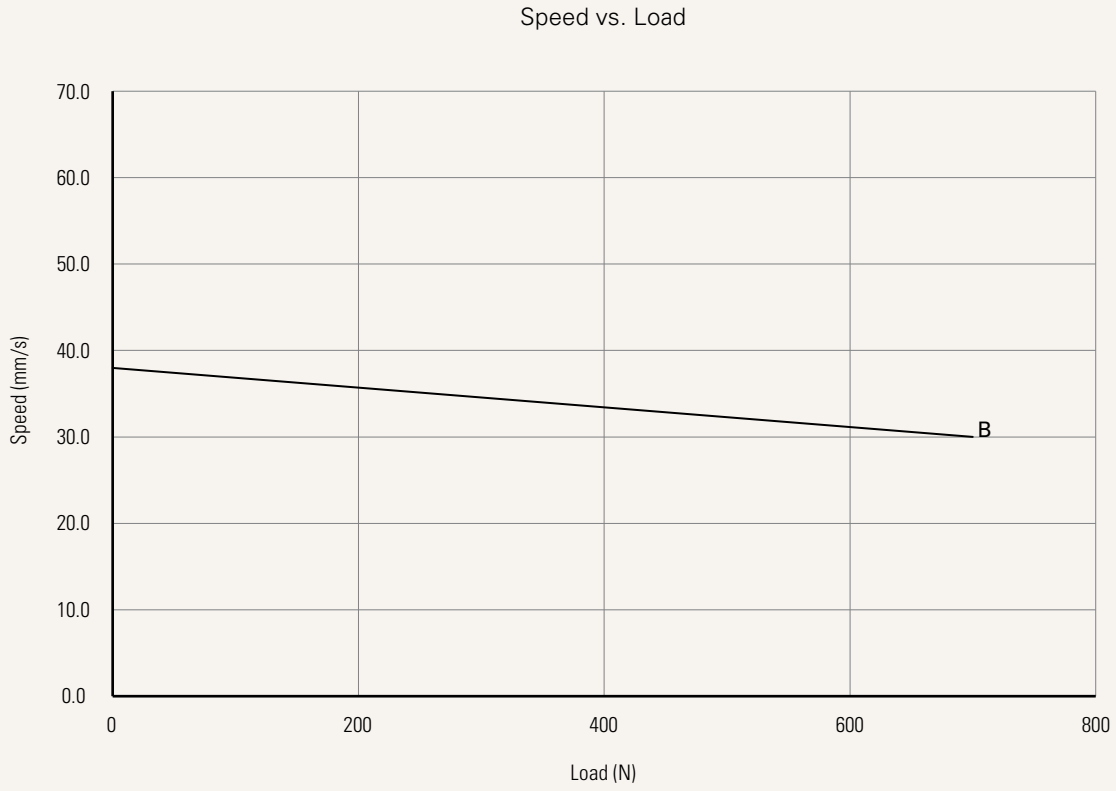
Note

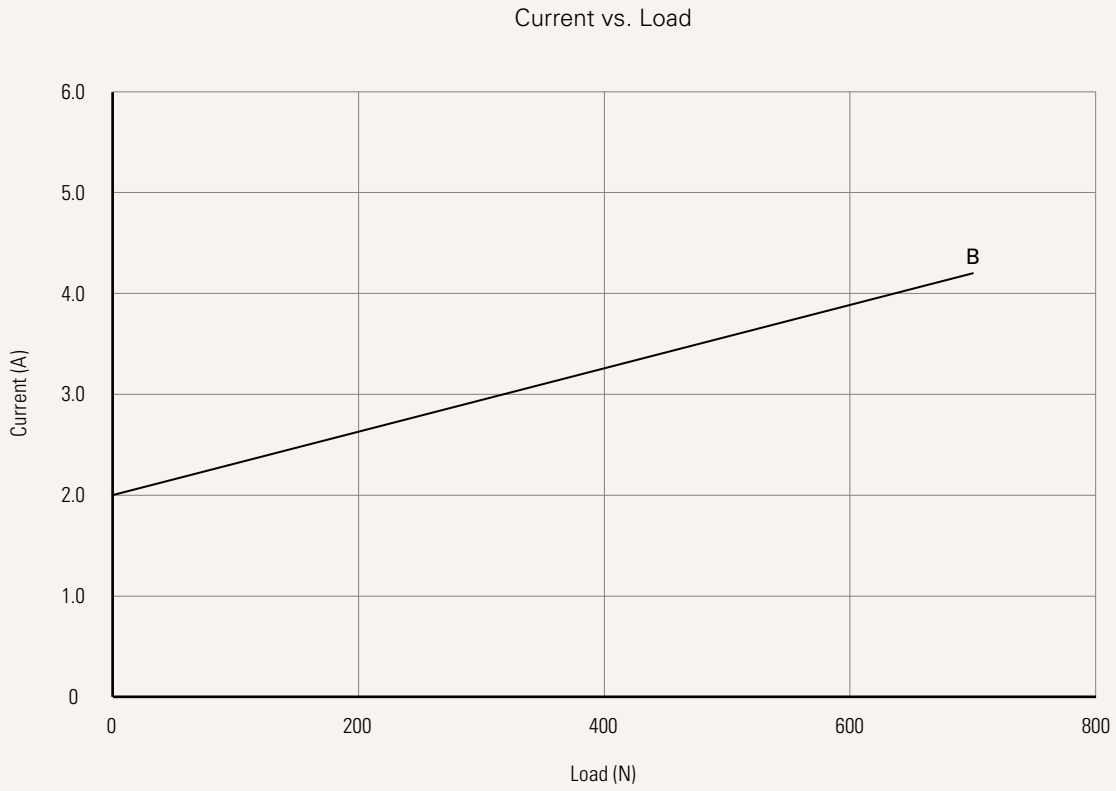
1 This self-locking force level is reached only when a short circuit is applied on the terminals of the motor. All the TiMOTION control boxes have this feature built-in.

2 Please refer to the approved drawing for the final authentic value.

Performance Data (24V DC Motor)

Motor Speed (5200RPM, short motor)





Note

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

TL13S Ordering Key

TiMOTION

TL13S

Version: 20230609-D

Appearance of Tubes	C = Without 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		7 = White, RAL 9016, White wiper
	2 = Grey, RAL 9006, Black wiper		8 = Special grey, RAL 9022, Grey wiper
	3 = White, RAL 9016, Black wiper		B = Matte Black (RAL7021)
	4 = Special grey, RAL 9022, Black wiper		C = Graphite grey, RAL 7024, Black wiper
	6 = Grey, RAL 9006, Grey 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		F = Molex 8P, 90° plug, without anti-clip, for TC22 / TC23
	E = Molex 8P, 180° plug, standard		
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500
Welding Part See page 5	0 = Without		B = Back, Standard bracket (For wall mounting application)
	L = Left, Standard bracket		
	R = Right, Standard bracket		

Note

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

TL13S Ordering Key Appendix

Stroke & Retracted Length (mm)

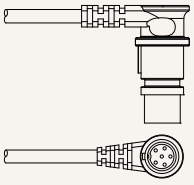
Foot Assembly	Stroke & Retracted Length
	Standard
Standard, with Foot	500 / 645
Extended Outer Tube for Shoe (Excluding Shoe)	500 / 665

Note

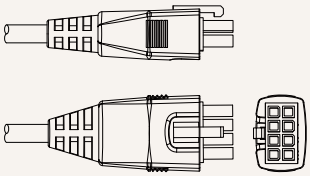
1 Only specific TEK could be with the shoes, please refer to TEK speccode

Connector

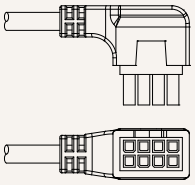
1 = DIN 6P, 90° plug



E = Molex 8P, 180° plug, standard

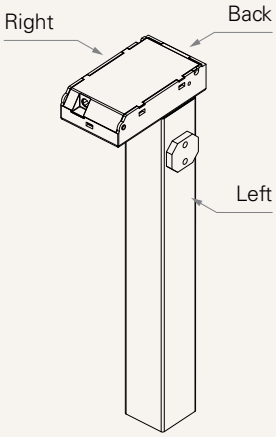


F = Molex 8P, 90° plug, without anti-clip, for TC22 / TC23



Welding Part

Standard direction



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