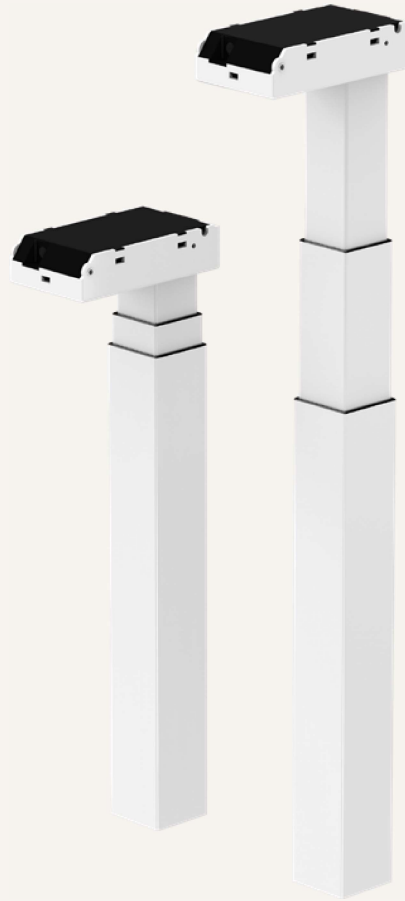


# TL4S

series



## Product Segments

### • Ergo Motion

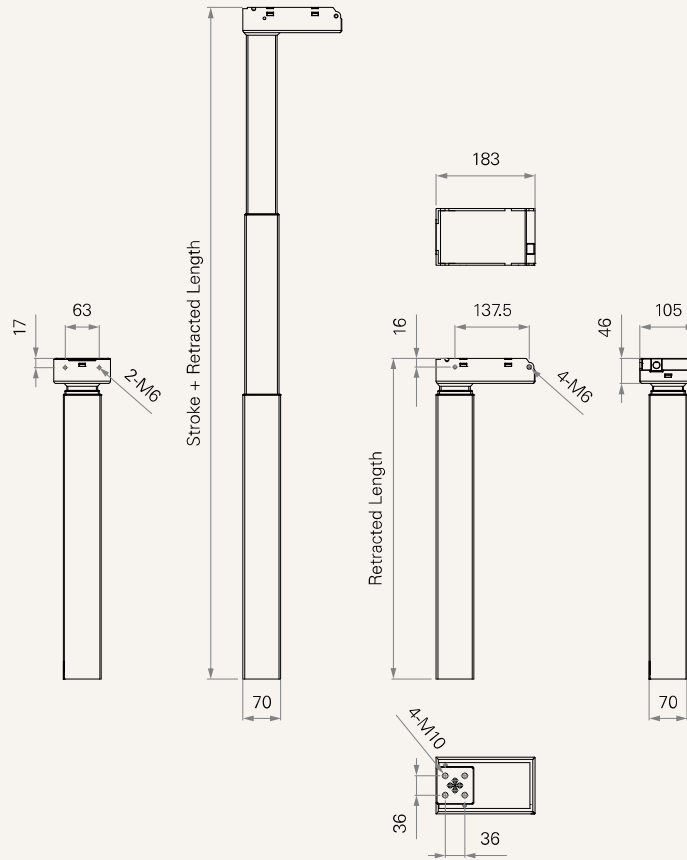
TiMOTION's TL4S series lifting columns are specifically designed for use in ergonomic desks and work tables. Using multiple TL series lifting columns with compatible TC series control boxes and TH / TDH series controls, work surfaces can be controlled quietly and smoothly with synchronous movement. All 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 TL4S has a three stage telescopic outer tube that is designed for a narrow-top, wide-bottom square appearance.

#### General Features

Max. load	600N (push)
Max. speed at max. load	25mm/s
Max. speed at no load	55mm/s
Retracted length	Standard: 590 / 560 (M) / 520 (S) mm For shoes: 610 / 580 (M) / 540 (S) mm
Dimension of outer tube	70*70mm square
Stages	3-stage
Stroke	650 / 660 (M, S) mm
Output signals	Hall sensors
Voltage	24V DC
Color	Black, white, grey, or special colors
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)**

<b>B</b>	600	600	2.5	5.0	55.0	25.0
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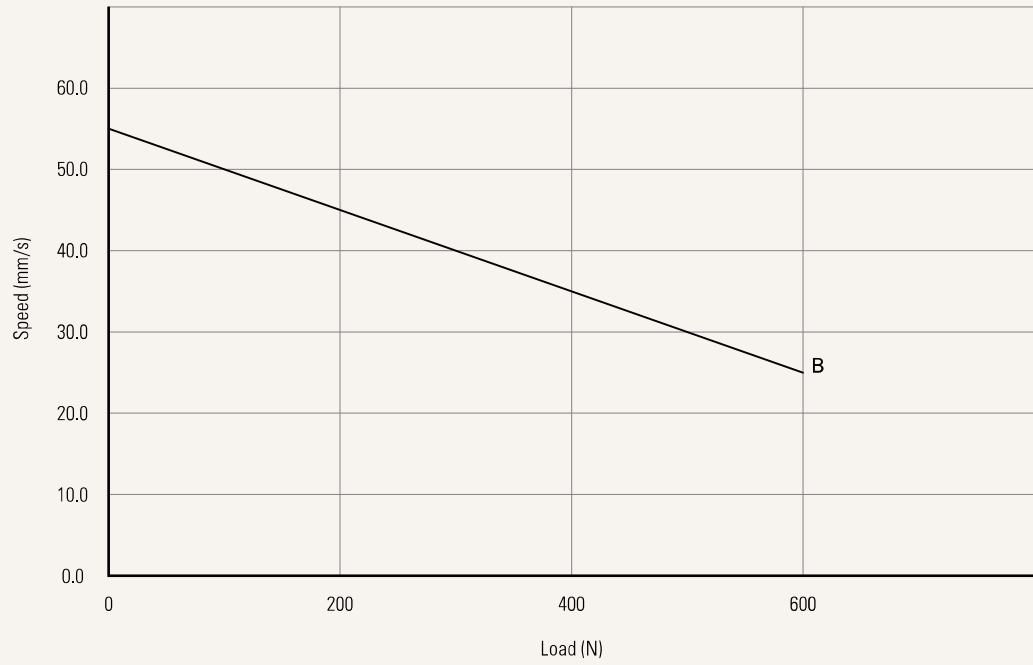
**Note**

- 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.

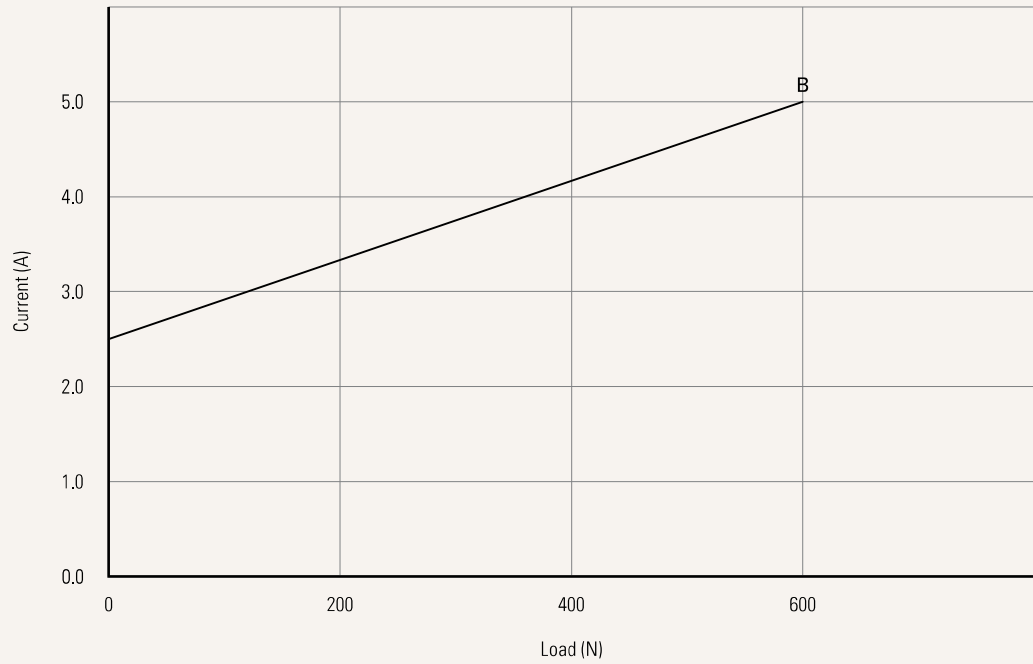
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



Note

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

# TL4S Ordering Key

TL4S

Version: 20210127-D



**Appearance of Tubes** C = Without wiper fixing holes at sides



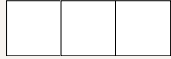
**Voltage** 2 = 24V DC



**Load and Speed** [See page 2](#)



**Stroke & Retracted Length (mm)** [See page 5](#)



<b>Color</b>	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, RAL 7021, Black wiper
	4 = Special grey, RAL 9022, Black wiper	C = Graphite grey, RAL7024, 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 sensor\*2



<b>Connector</b>	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



<b>Bracket</b>	0 = Without	B = Back, Standard bracket (For wall mounting application)
<a href="#">See page 5</a>	L = Left, Standard bracket	
	R = Right, Standard bracket	

**Note**

<sup>1</sup> The TL is designed especially for push applications, not suitable for pull applications.

## Stroke & Retracted Length (mm)

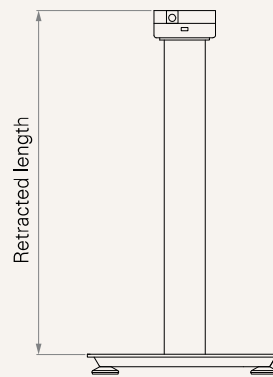
Foot Assembly	Stroke & Retracted Length		
	Standard	M	S
<b>Standard, with Foot</b>	650 / 590	660 / 560	660 / 520
<b>Extended Outer Tube for Shoe (Excluding Shoe)</b>	650 / 610	660 / 580	660 / 540

### Note

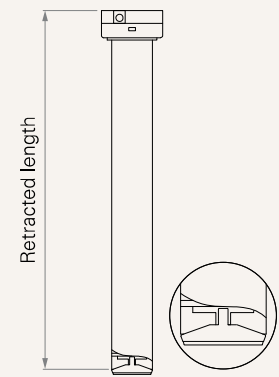
1 Only specific TEK could be with the shoes, please refer to TEK speccode

## Foot Assembly

Standard, with foot

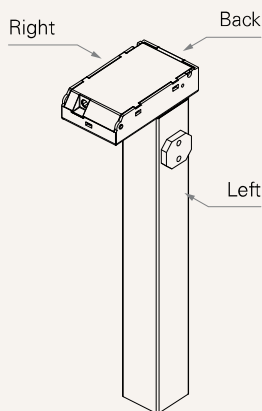


Extended outer tube for shoe (excluding shoe)



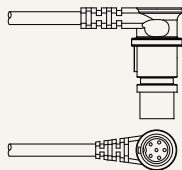
## Bracket

Standard direction

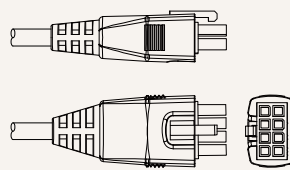


## Connector

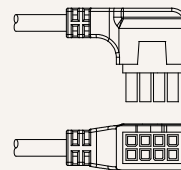
1 = DIN 6P, 90° plug



E = Molex 8P, 180° plug, standard



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



## Terms of Use

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