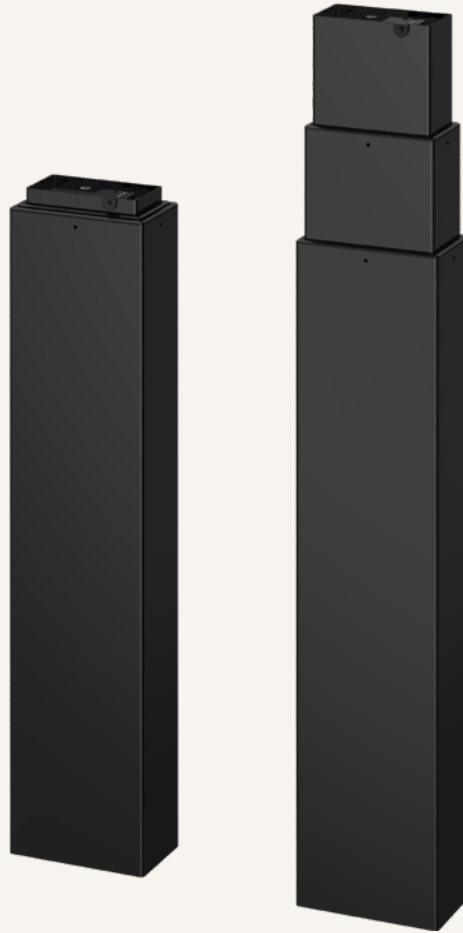


# TL5

series



## Product Segments

### • Ergo Motion

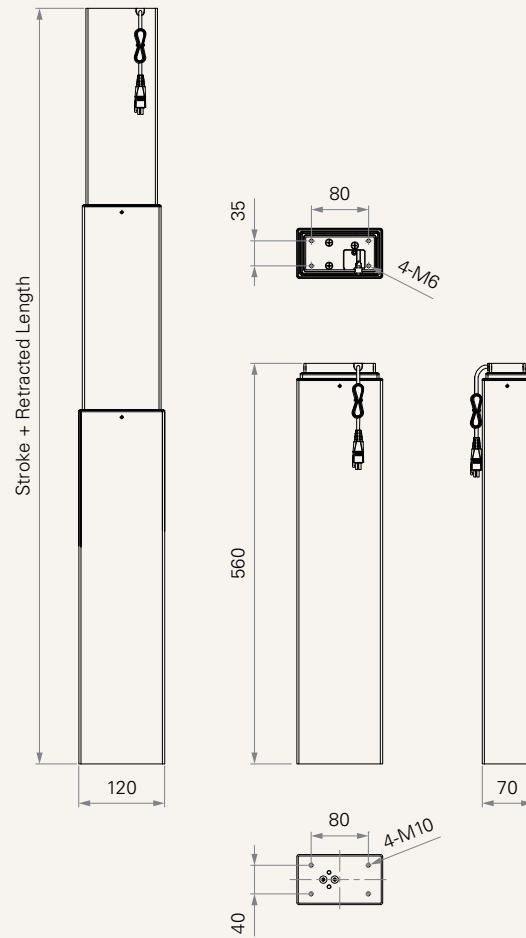
TiMOTION's TL5 series columns are designed with an extruded steel square appearance for use in ergonomic furniture applications. Our economical TL5 provides stable vertical lifting. This makes the engineering design process easier and safer by replacing older style lifting mechanisms that use many moving stages and have pinch points. The 3 stage telescopic design enables a greatly reduced retracted height and provides an increased stroke length while ensuring a high degree of stability.

#### General Features

Max. load	800N (push)
Max. speed at max. load	20mm/s
Max. speed at no load	36mm/s
Retracted length	560mm
Dimension of outer tube	120*70mm rectangular
Stages	3-stage
Stroke	675mm
Output signals	Hall sensors
Voltage	24V DC, 24V PTC
Current at rated load	5A
Color	Black, white, grey, or special grey
Inline column	

**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
<b>Motor speed (3800RPM)</b>						
<b>A</b>	500	500	2.5	4.0	36.0	20.0
<b>Motor speed (5200RPM)</b>						
<b>B</b>	800	1000	2.5	5.0	32.0	20.0

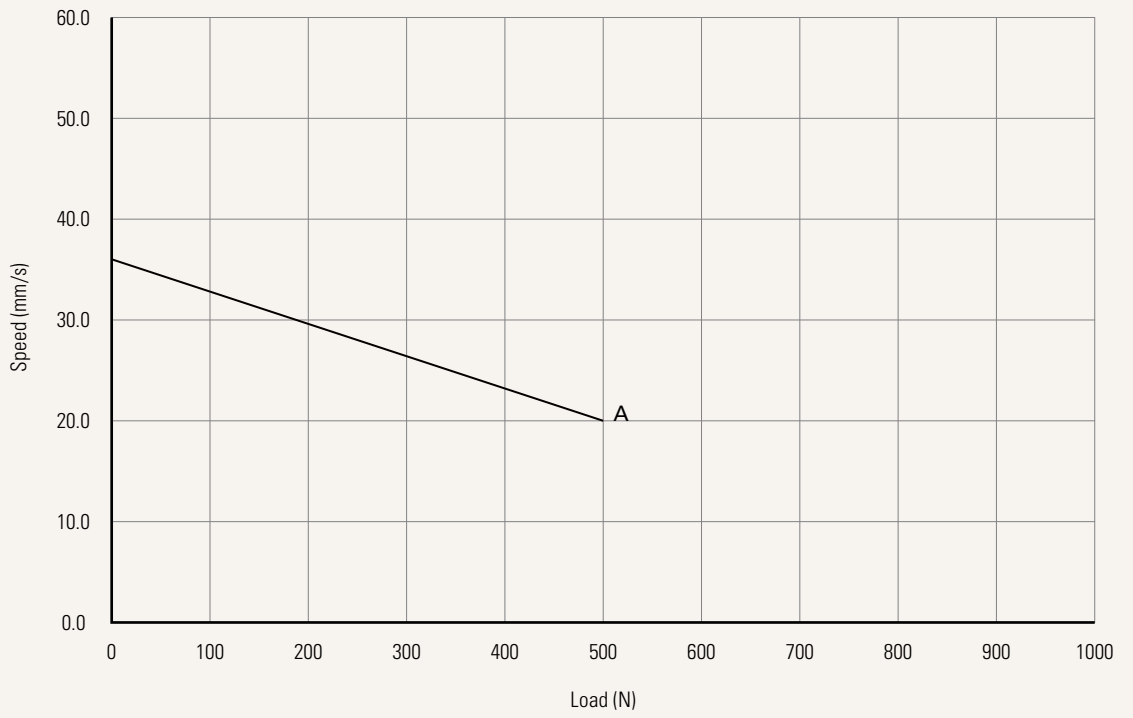
**Note**

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.

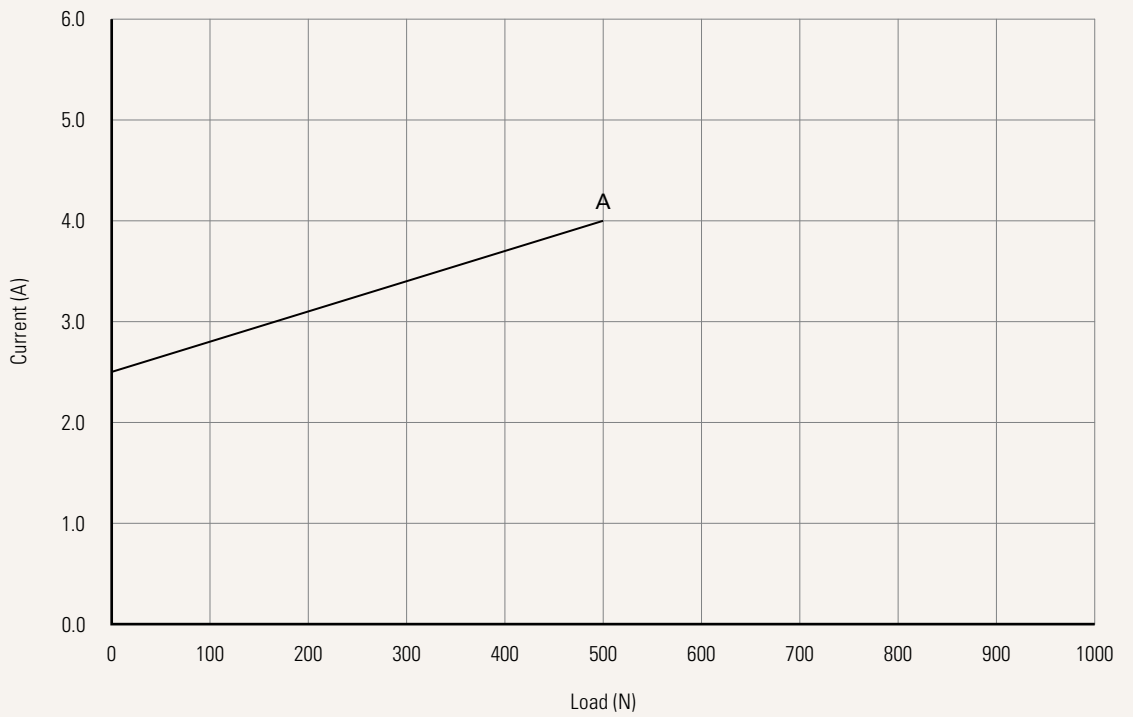
Performance Data (24V DC Motor)

Motor speed (3800RPM)

Speed vs. Load



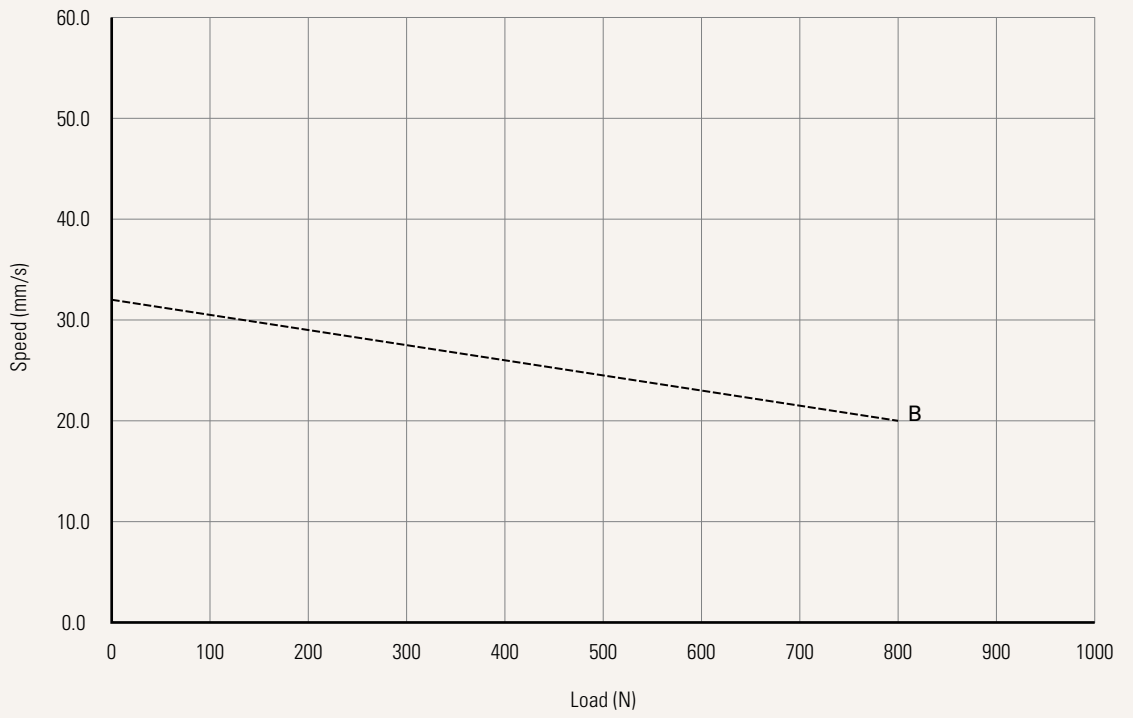
Current vs. Load



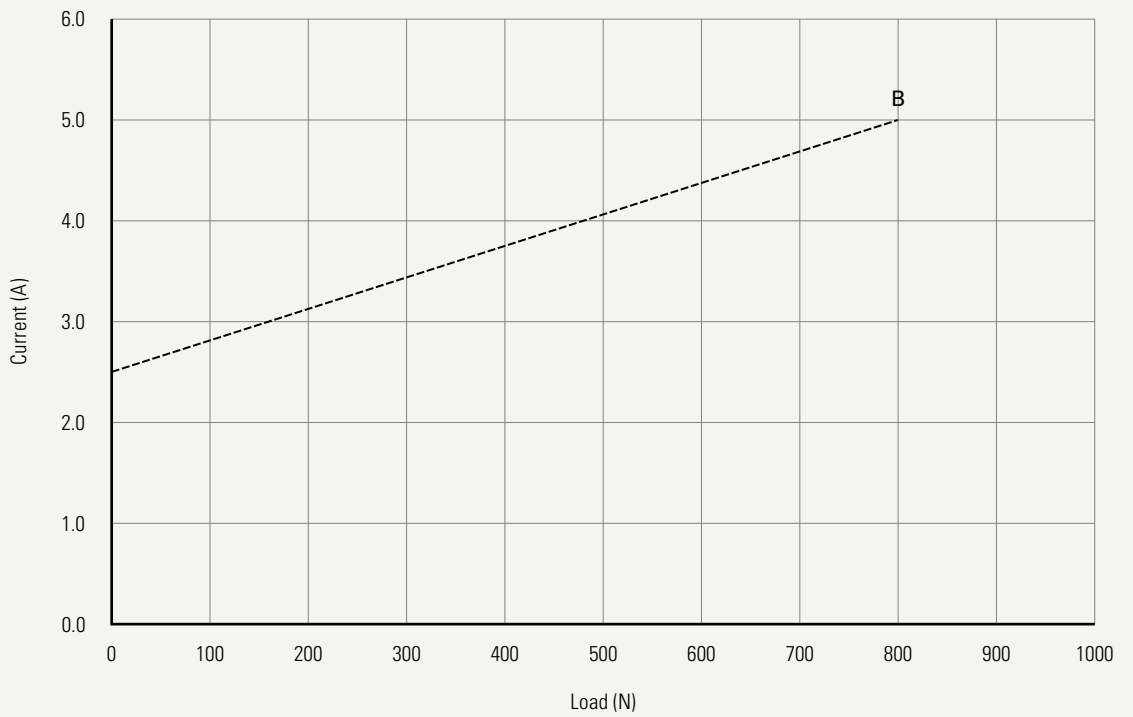
Performance Data (24V DC Motor)

Motor speed (5200RPM)

Speed vs. Load



Current vs. Load



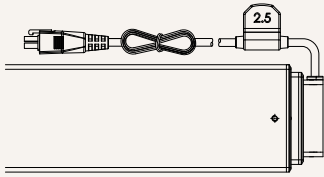
<b>Voltage</b>	2 = 24V DC	5 = 24V DC, PTC. <a href="#">See page 6</a>		
<b>Load and Speed</b>	<a href="#">See page 2</a>			
<b>Stroke (mm)</b>	675 (Standard)			
<b>Retracted Length (mm)</b>	560 (Standard)			
<b>Tube Color</b>	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
<b>Wiper Color</b>	1 = Black	2 = White	3 = Grey	
<b>Functions for Limit Switches</b> <a href="#">See page 6</a>	1 = Two switches at full retracted / extended positions to cut current			
<b>Output Signals</b>	0 = Without	2 = Hall sensor*2		
<b>Plug</b> <a href="#">See page 6</a>	1 = DIN 6P, 90° plug	2 = Tinned leads	E = Molex plug 8P	F = DIN 6P, 180° plug
<b>Cable Length (mm)</b>	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	
<b>Cable Exit</b> <a href="#">See page 6</a>	1 = From the top	2 = From the bottom		

### Note

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

## Voltage

5 = 24V DC, PTC



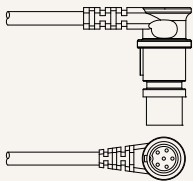
## Functions for Limit Switches

### Wire Definitions

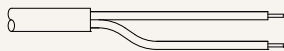
CODE	Pin					
	1 (Green)	2 (Red)	3 (White)	4 (Black)	5 (Yellow)	6 (Blue)
1	extend (VDC+)	N/A	N/A	N/A	retract (VDC+)	N/A

## Plug

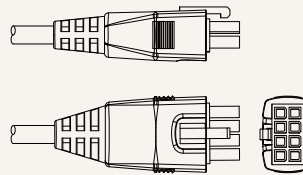
1 = DIN 6P, 90° plug



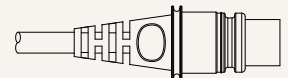
2 = Tinned leads



E = Molex plug 8P

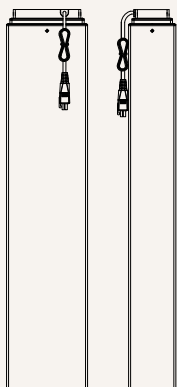


F = DIN 6P, 180° plug

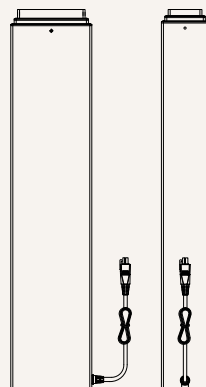


## Cable Exit

1 = From the top



2 = From the bottom



## Terms of Use

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