

TL17

series



Product Segments

- **Care Motion**

TiMOTION's TL17 series electric lifting columns are designed specifically for medical applications. Constructed with an extruded aluminum rectangular appearance, our TL17 lift column provides a high degree of stability. This column makes engineering and design processes easier and the system safer by replacing older style lifting mechanisms that have many moving parts and pinch points. The 3 stage, telescopic design provides a greatly reduced retracted height and an increased stroke length.

General Features

Maximum load	2,000N
Dynamic bending moment	250Nm
Maximum speed at full load	22.0mm/s (with 1,000N in a push condition)
Minimum installation dimension	350mm
Dimension of cross section	169.4x121.4 mm
Stroke	400mm
Operational temperature range	+5°C~+45°C
IP rating	Up to IPX6
Option	Hall sensors

Load and Speed

CODE	Load (N)	Dynamic Bending Moment (Nm)	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 (2800RPM)							
B	2000	250	2000	2.5	4.5	22.0	11.0
C	1000	250	1000	2.5	3.5	39.0	22.0

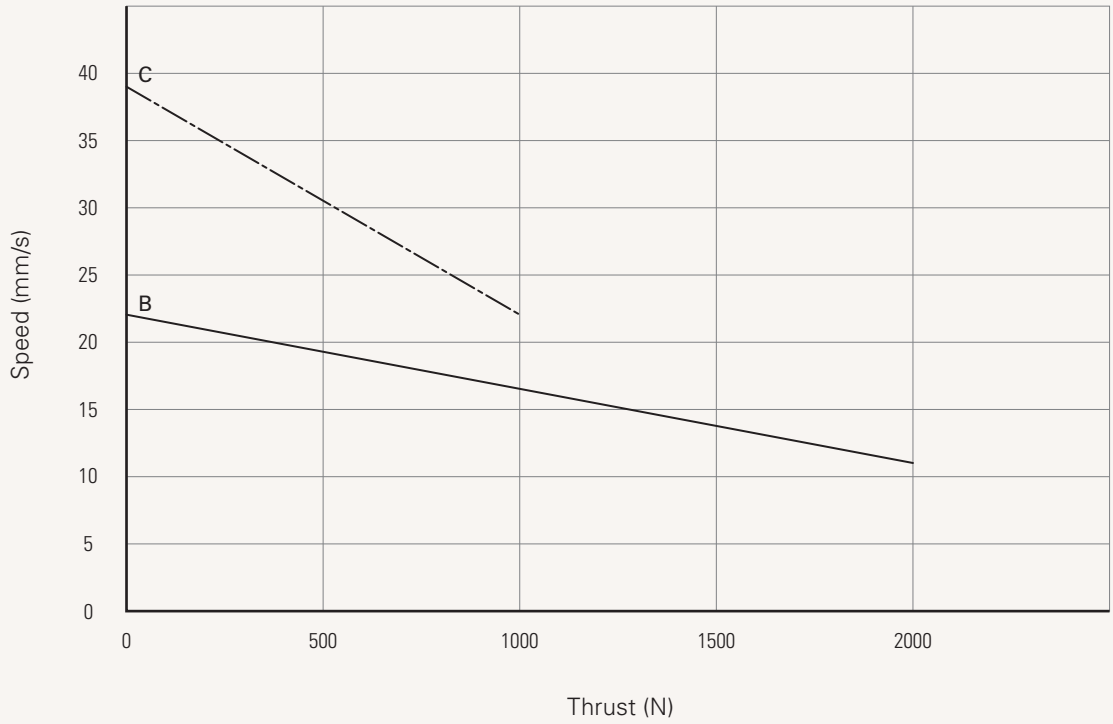
Note

- 1 Motor 12V current is around 2 times in 24V; speed is around the same.
- 2 Parameters above are from tested average, please refer to approval drawing for final value.

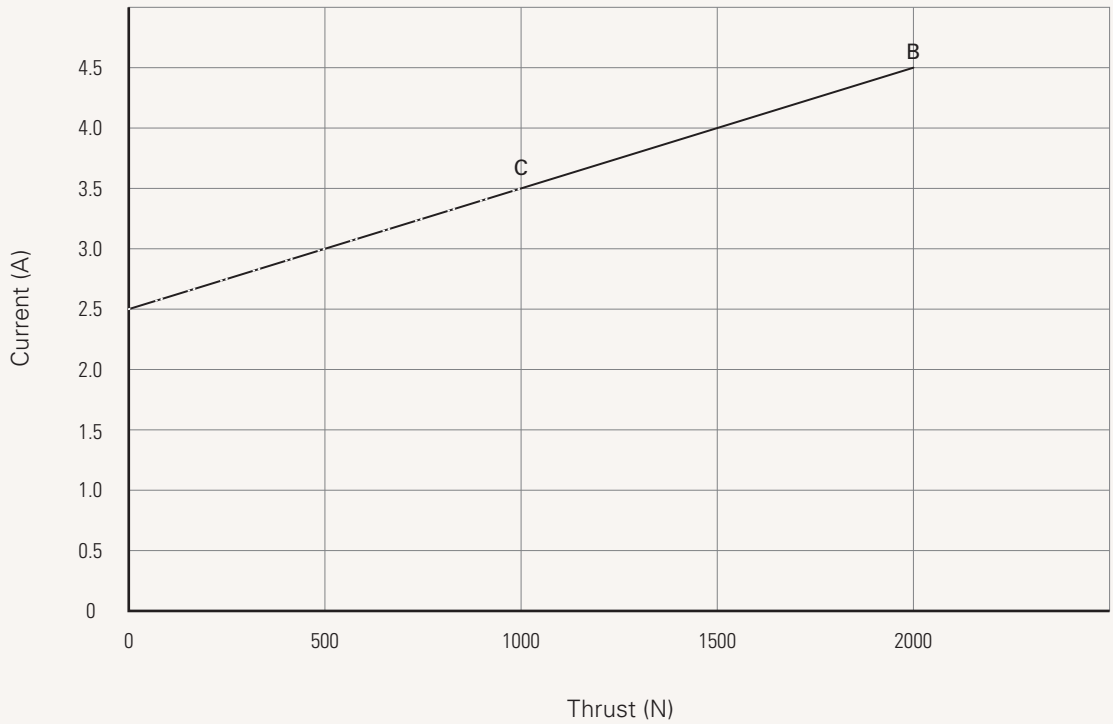
Performance Data

Motor Speed (2800RPM)

Speed vs. Thrust



Current vs. Thrust

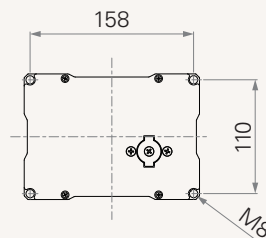
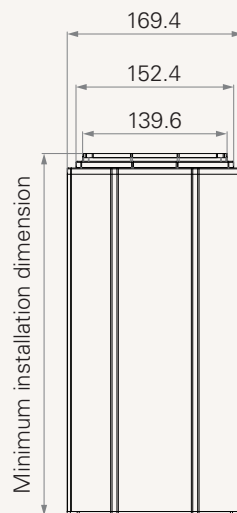
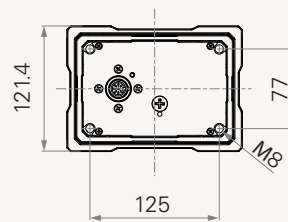
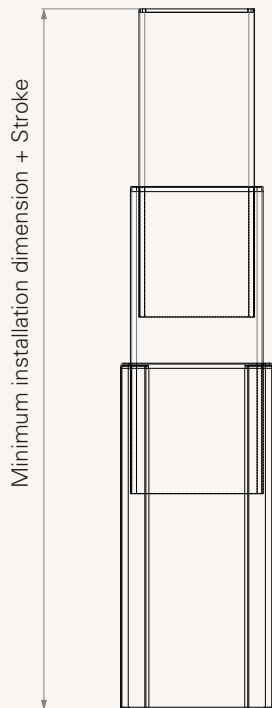


Note

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

Drawing

Standard Dimensions
(mm)



TL17

Version: 20160425-B

<input type="checkbox"/>	Voltage	1 = 12V	2 = 24V
<input type="checkbox"/>	Load and Speed	See page 2.	
<input type="checkbox"/>	Stroke (mm)	400mm (Standard, but could be less)	
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>	Retracted Length (mm)	350mm	
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>	Cable Exit	1 = Top end socket	
<input type="checkbox"/>	Special Functions for Spindle Sub-Assembly	0 = Without (standard)	
<input type="checkbox"/>	Functions for Limit Switches	1 = Two switches at full retracted/extended positions to cut current 3 = Two switches at full retracted/extended positions to send signal	
<input type="checkbox"/>	IP Rating	1 = Without	2 = IPX4 3 = IPX6
<input type="checkbox"/>	Output Signals	0 = Without	2 = Two Hall sensors
<input type="checkbox"/>	Connector	1 = DIN 6pin, socket	
<input type="checkbox"/>	Cable Length	0 = Without (the corresponding extension cable TEC needs to be ordered seperately, please contact TiMOTION.)	

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.