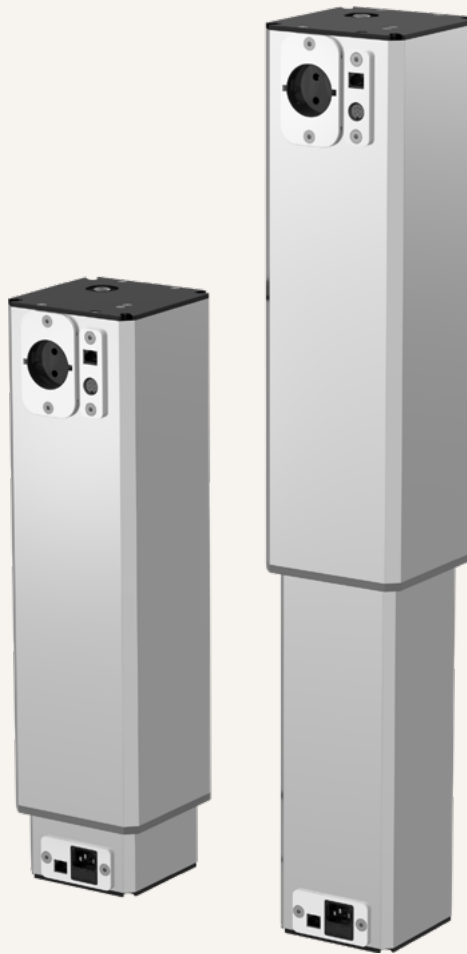


# TL27

## series



### Product Segments

#### • Care Motion

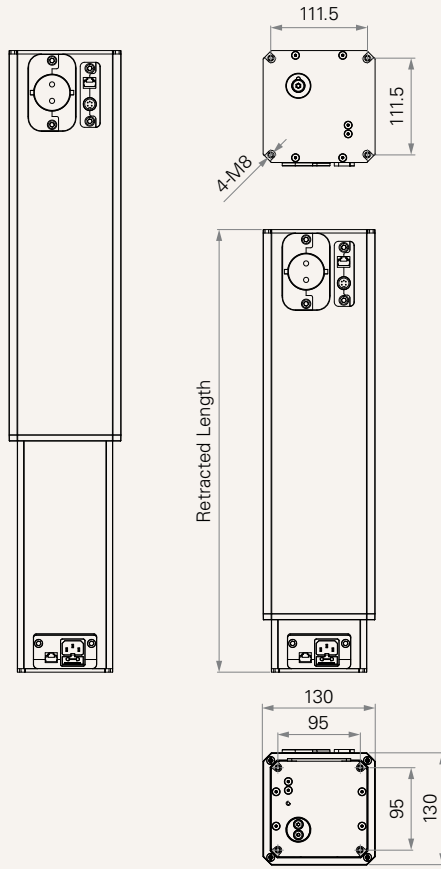
TL27 electric lifting column is designed for medical applications such as height adjustable workstations, screens and optical machines. It is equipped with an AC plug to connect the computers, TVs or other devices directly. The TL27 has a two stage telescopic outer tube that is designed for a wide-top, narrow-bottom square appearance.

#### General Features

Max. load	3,300N (push)
Max. load & self – locking force	3,300N
Max. dynamic bending moment	200Nm
Max. static bending moment	400Nm
Max. speed at max. load	6.5mm/s
Max. speed at no load	38mm/s
Retracted length	≥ Stroke + 256mm
Dimension of outer tube	2-stage, 130*130mm square, upside down
Stroke	20~800mm
Options	AC power input / output
Color	Black, silver
Operational temperature range	+5°C~+45°C

**Drawing**

Standard Dimensions  
(mm)



### Load and Speed

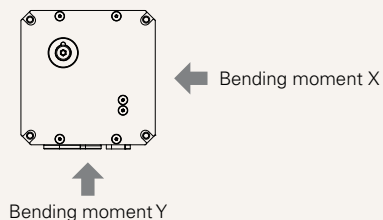
CODE	Load (N)	Self Locking Force (N)	Typical Current (A)		Typical Speed (mm/s)	
	Push		With Load 32V DC	With Load 24V DC	No Load 32V DC	With Load 24V DC
<b>G</b>	3300	3300	2.0	4.7	12.0	6.5
<b>J</b>	1800	1800	2.0	3.2	17.0	10.5
<b>L</b>	800	800	2.5	5.0	38.0	22.0

### Note

- 1 Please refer to the approved drawing for the final authentic value.
- 2 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.
- 3 Operational temperature range: +5°C~+45°C
- 4 The current & speed in table are tested with 24V DC motor.
- 5 Bending moment Y direction = X
- 6 Static bending moment = dynamic\*2
- 7 Standard stroke: Min. ≥ 20mm, Max. please refer to below table.

#### Dynamic bending moment (Nm) - X direction

Stroke (mm)	S + 256
<b>200-400</b>	200
<b>401-600</b>	200
<b>601-800</b>	200

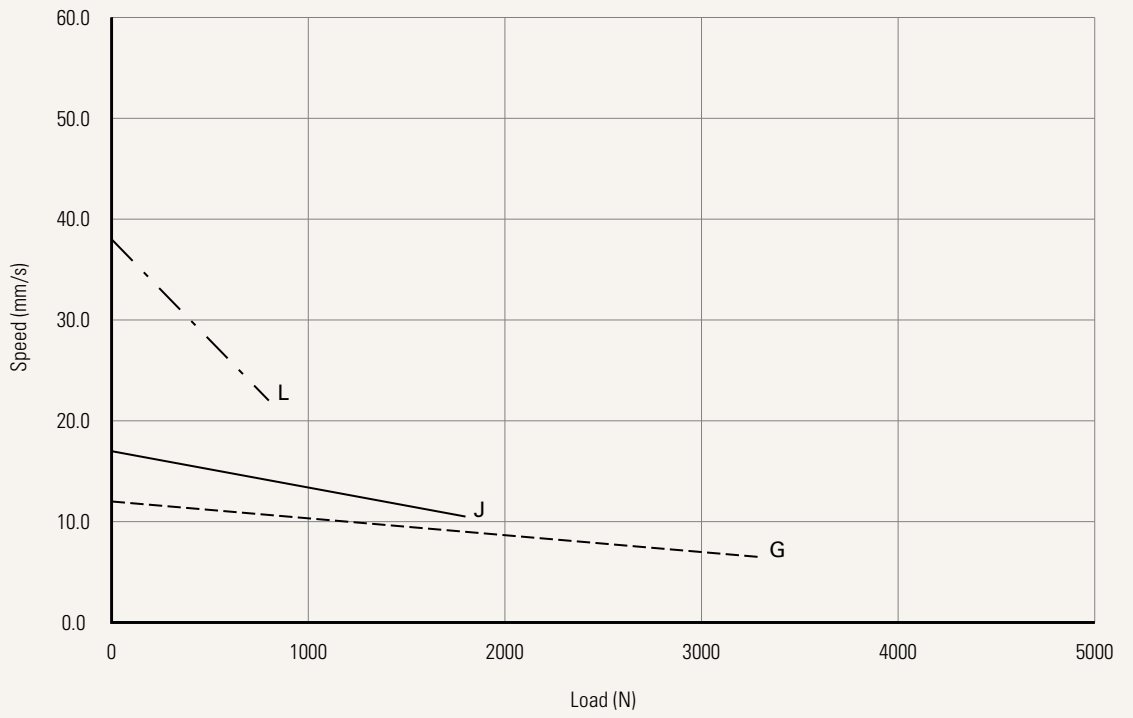


Code	Load (N)	Max Stroke (mm)
<b>G</b>	≤ 3300	600
<b>J</b>	≤ 1800	800
<b>L</b>	≤ 800	800

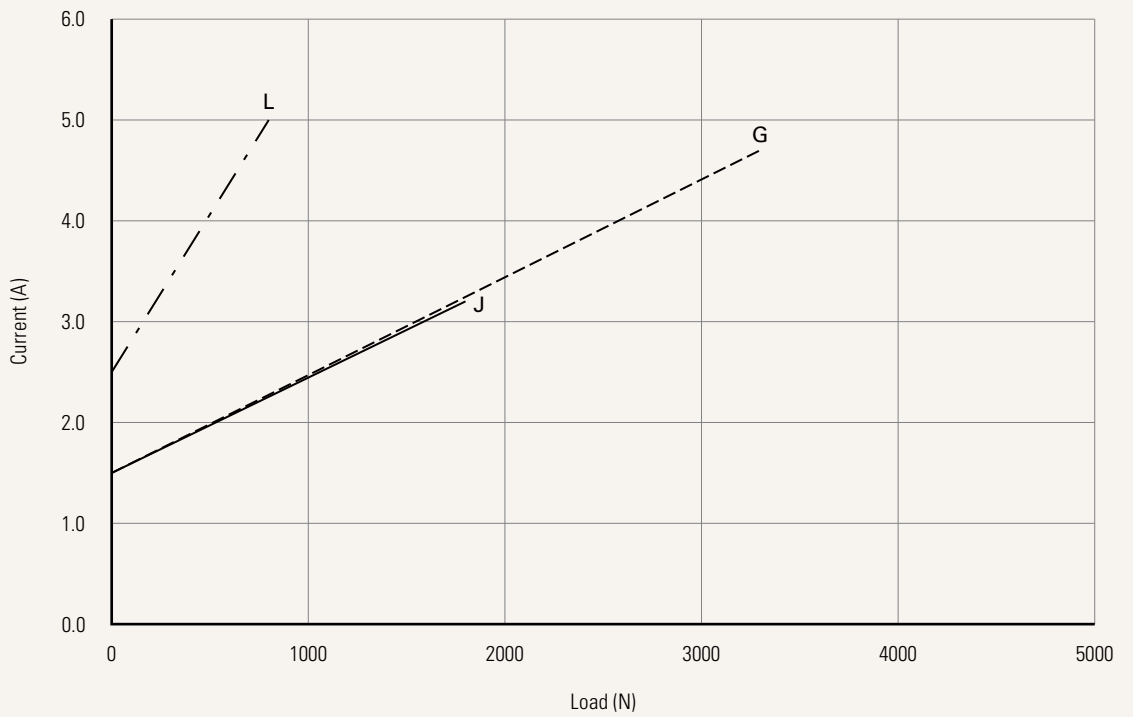
Performance Data (24V DC Motor)

Motor Speed (5600RPM, Duty Cycle 10%)

Speed vs. Load



Current vs. Load



<b>Voltage</b>	U = 100-240VAC, SMPS		
<b>Load and Speed</b>	<a href="#">See page 3</a>		
<b>Stroke (mm)</b>	20-800		
<b>Retracted Length (mm)</b>	≥ S + 256		
<b>Special Functions for Spindle Sub-Assembly</b>	0 = Without (standard)		
<b>Color</b>	1 = Black	2 = Matte silver	
<b>Tubes &amp; Sockets Position</b>	E = Tube: thicker on top; Sockets position: top side		
<b>Top Plate</b>	1 = Small plate		
<b>Bottom Plate</b>	1 = Small plate		
<b>AC Input plug &amp; Output Socket</b>	1 = EU 2 = US	3 = AU 4 = UK	5 = JP
<b>AC Cable Length (mm)</b>	5 = Straight, 1500		
<b>AC Output Socket</b>	0 = Without	1 = With	
<b>Direct Cut</b>	K = 1 motor direct cut system		
<b>Internet Socket</b>	0 = Without	1 = With	

### Note

<sup>1</sup> The TL27 is designed especially for push applications, not suitable for pull applications.

### 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.