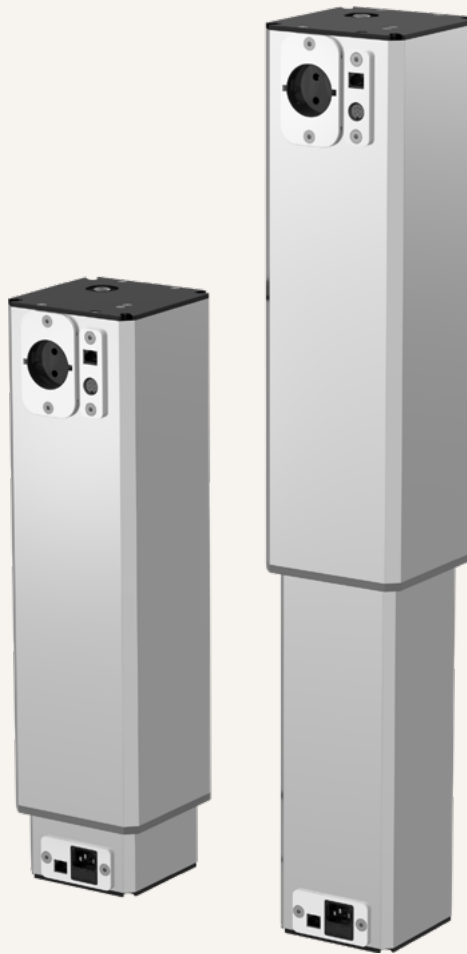


TL27

series



Product Segments

- **Care Motion**

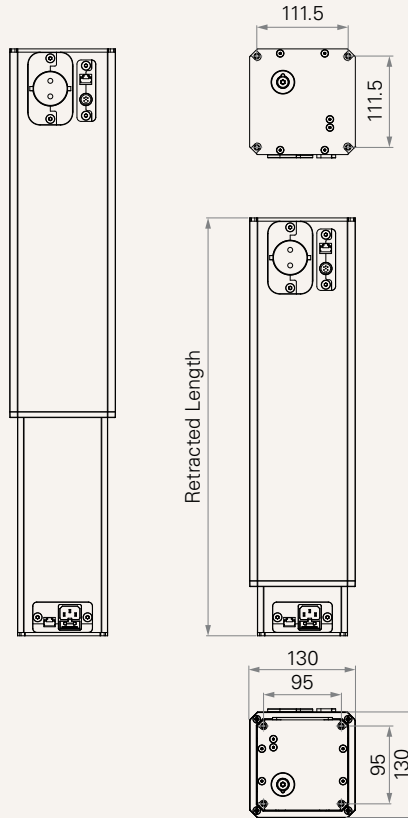
TL27 electric lifting column is designed for medical applications such as height adjustable workstations, screens and optical machines. It is equipped with an AC plug to connect the computers, TVs or other devices directly.

General Features

Maximum load	3,300N in push
Maximum speed at full load	10.5mm/s (with 1,800N in a push condition)
Minimum installation dimension	≥ Stroke + 256mm
Stroke	200~800mm
Two stage outer tube with square appearance	
Wide top and narrow bottom configuration	

Drawing

Standard Dimensions
(mm)



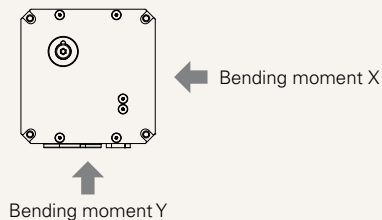
Load and Speed

CODE	Load (N) Push	Self Locking Force (N)	Typical Current (A)		Typical Speed (mm/s)	
			With Load 32V DC	With Load 24V DC	No Load 32V DC	With Load 24V DC
Motor Speed (5600RPM, Duty Cycle 10%)						
G	3300	3300	1.5	4.7	12.0	6.5
J	1800	1800	1.5	3.2	17.0	10.5

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 The current & speed in table and diagram are tested with TiMOTION control boxes, and there will be around 10% tolerance depending on different models of the control box. (Under no load condition, the voltage is around 32V DC. At rated load, the voltage output will be around 24V DC)
- 6 Bending moment Y direction = X
- 7 Static bending moment = dynamic*2

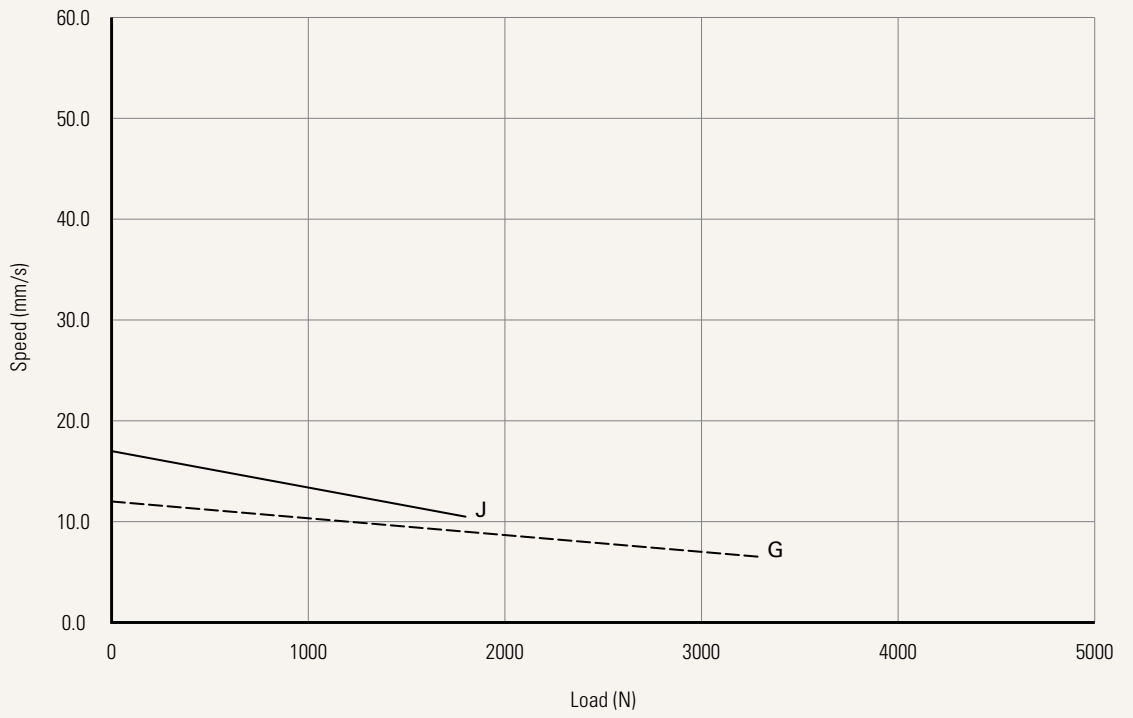
Dynamic bending moment (Nm) - X direction	
Stroke (mm)	S+256
200-400	200
401-600	200
601-800	200



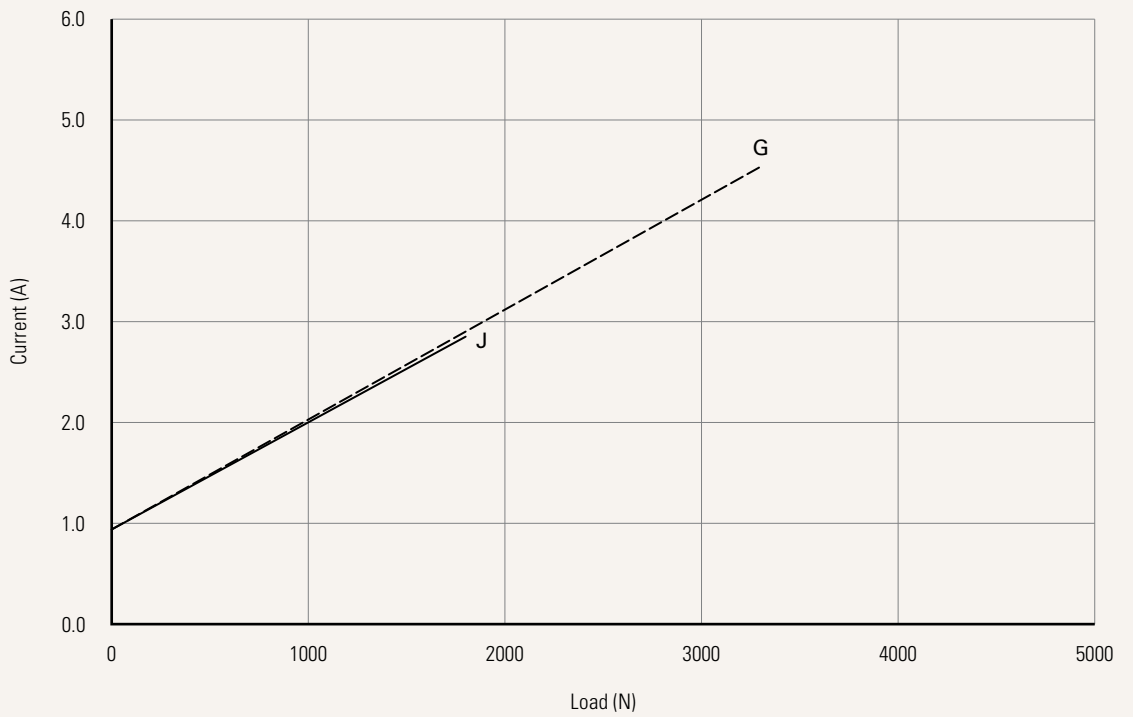
Performance Data (24V DC Motor)

Motor Speed (5600RPM, Duty Cycle 10%)

Speed vs. Load



Current vs. Load



Voltage	U = 100-240VAC, SMPS		
Load and Speed	See page 2		
Stroke (mm)	200-800		
Retracted Length (mm)	≥ S + 256		
Special Functions for Spindle Sub-Assembly	0 = Without (standard)		
Color	1 = Black	2 = Matte silver	
Tubes & Sockets Position	E = Tube: thicker on top; Sockets position: top side		
Top Plate	1 = Small plate		
Bottom Plate	1 = Small plate		
AC Input plug & Output Socket	5 = EU	6 = US	8 = UK
AC Cable Length (mm)	5 = Straight, 1500		
AC Output Socket	0 = Without	1 = With	
Direct Cut	K = 1 motor direct cut system		
Internet Socket	0 = Without	1 = With	

Note

¹ 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.