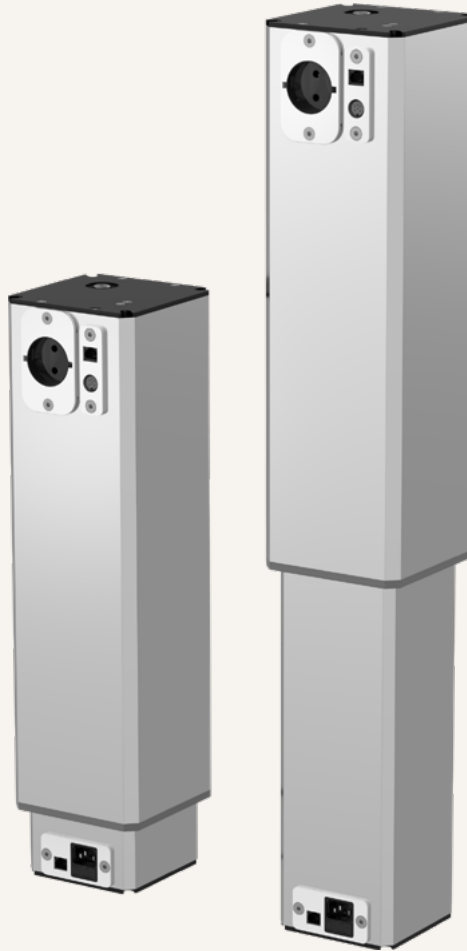


TL27

series



Product Segments

- **Care Motion**

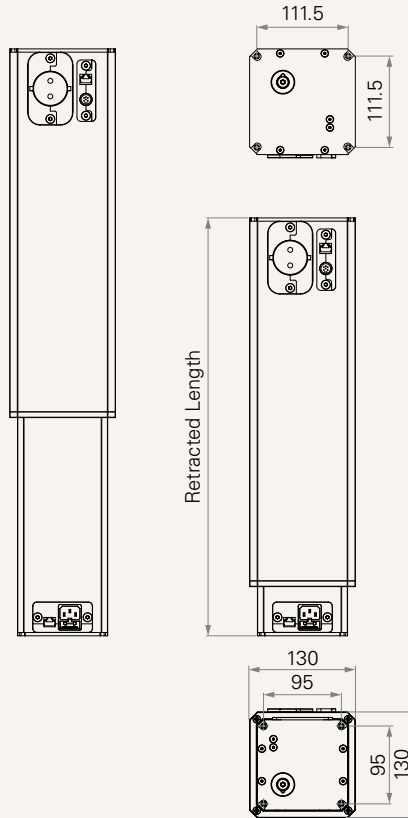
TL27 electric lifting column is designed for medical applications such as height adjustable workstations, screens and optical machines. It is equipped with an AC plug to connect the computers, TVs or other devices directly.

General Features

Maximum load	3,300N in push
Maximum speed at full load	22mm/s (with 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)



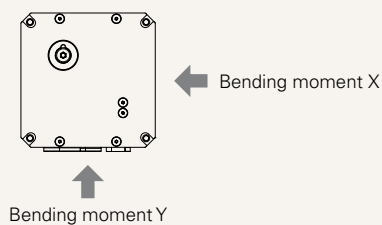
Load and Speed

CODE	Load (N)	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
Motor Speed (5600RPM, Duty Cycle 10%)						
G	3300	3300	2.0	4.7	12.0	6.5
J	1800	1800	2.0	3.2	17.0	10.5
L	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 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

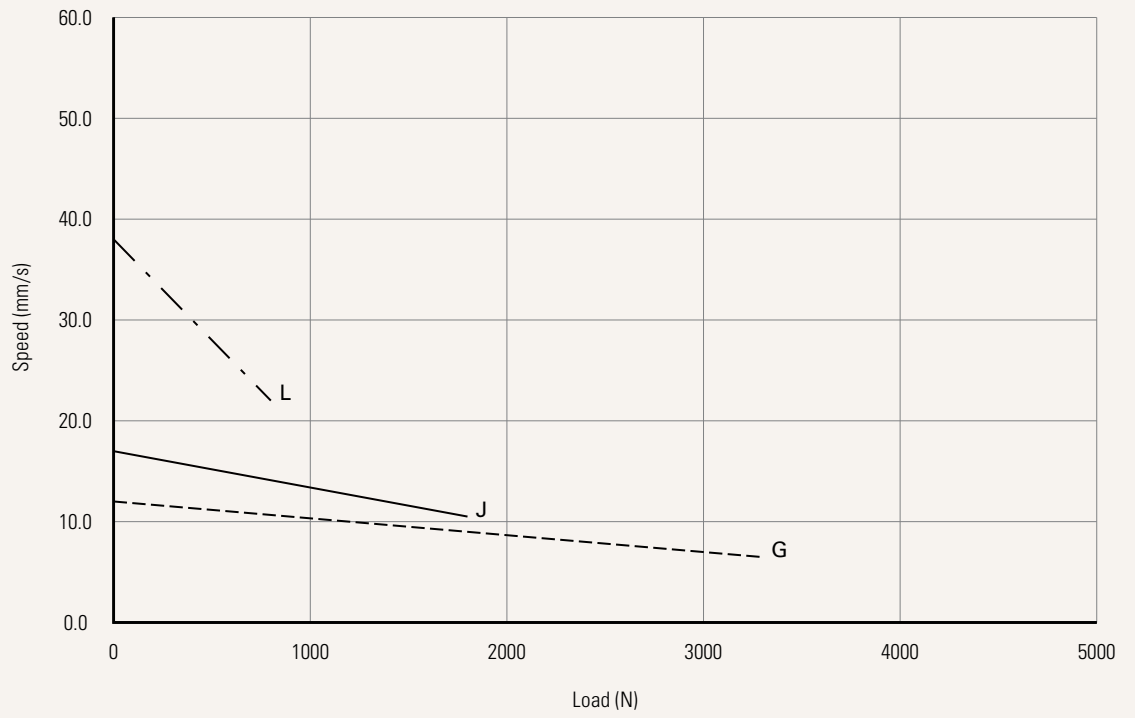
Dynamic bending moment (Nm) - X direction	
Stroke (mm)	S+256
200-400	200
401-600	200
601-800	200



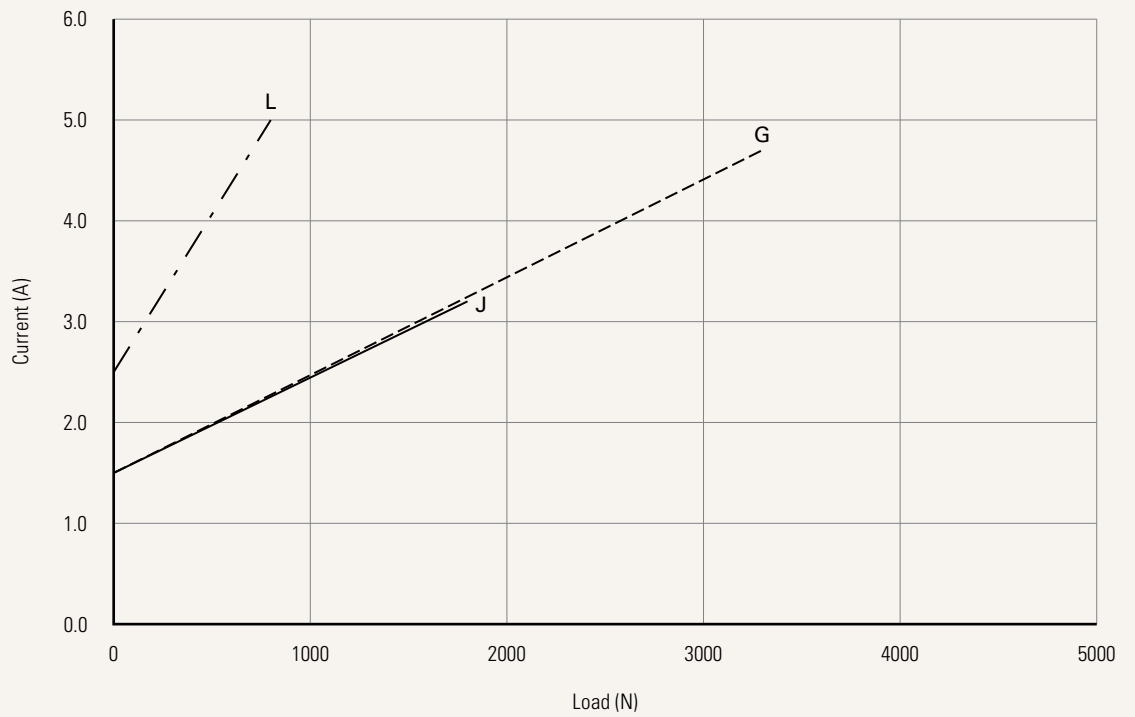
Performance Data (24V DC Motor)

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	7 = AU	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.