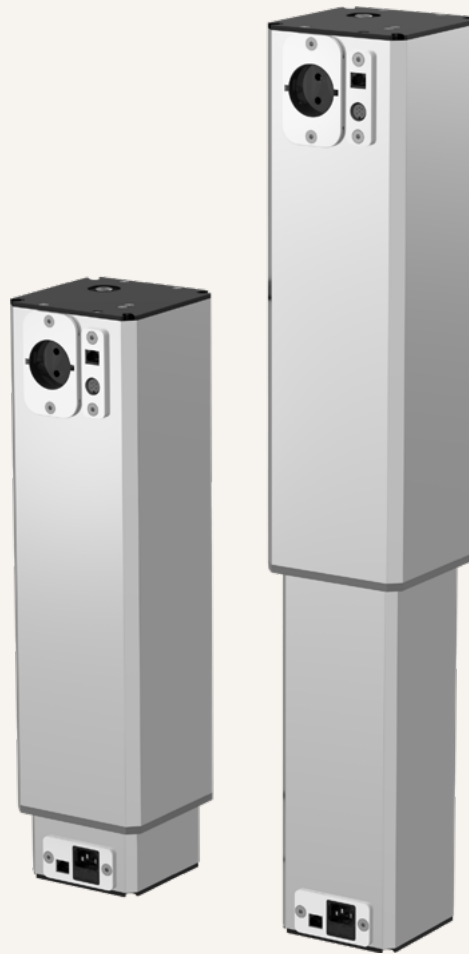


TL27

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.

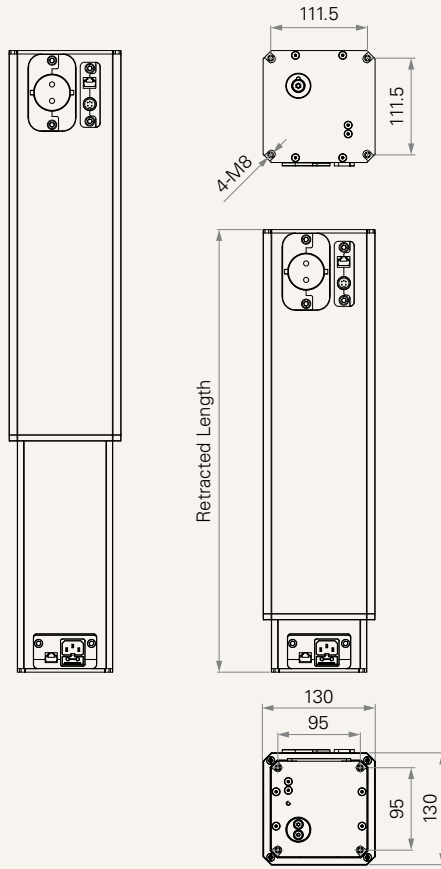
The TL27 has a two stage telescopic outer tube that is designed for a wide-top, narrow-bottom square appearance.

General Features

Max. load	3,300N (push)
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, upside down
Stroke	100~600mm
Options	AC power input/output
Voltage	100~240V AC (SMPS)
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
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

Motor Speed (5600RPM, Duty Cycle 10%)

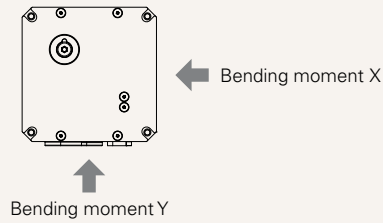
Note

- Parameters above are from tested average, please refer to approval drawing for final value.
- 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.
- The current & speed in table are tested with 24V DC motor.
- Standard stroke: Please refer to below table.

CODE	Load (N)	Min. Stroke (mm)	Max. Stroke (mm)
	Push		
G	3300	100	≤300
J	1800	100	≤450
L	800	100	≤600

5 Dynamic bending moment (Nm) - X direction

Stroke (mm)	Retracted length (mm)
	S+256
200-400	200
401-600	200
601-800	200

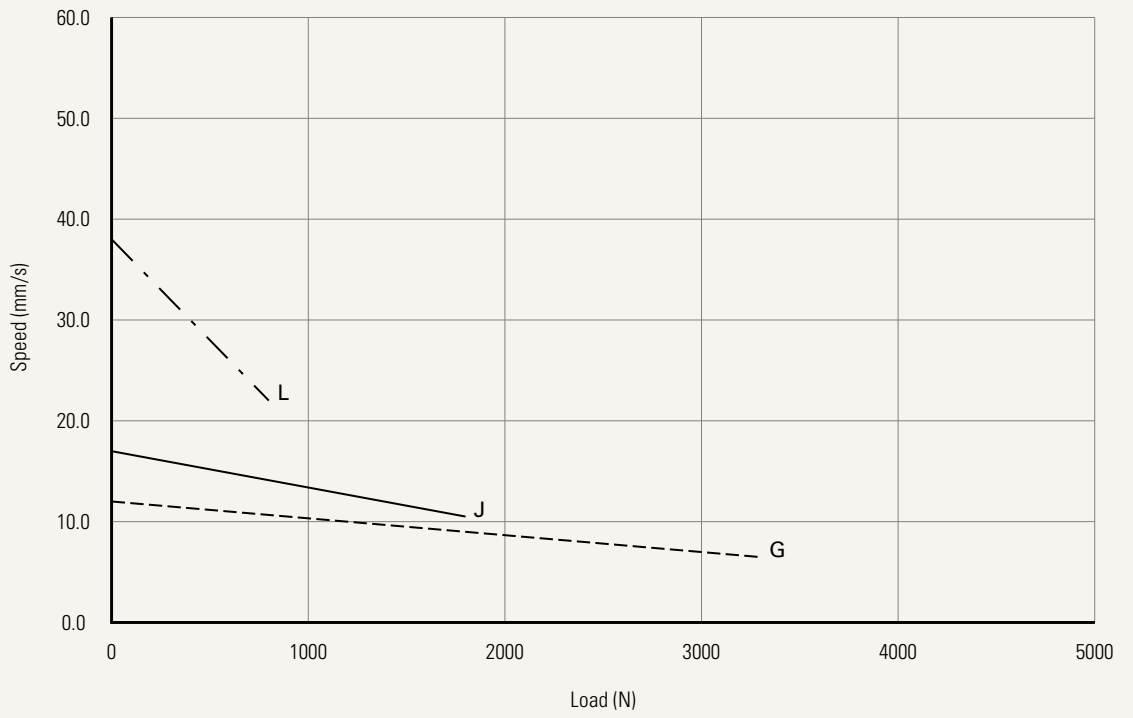


- * Bending moment Y direction= X
- * Static bending moment= dynamic*2

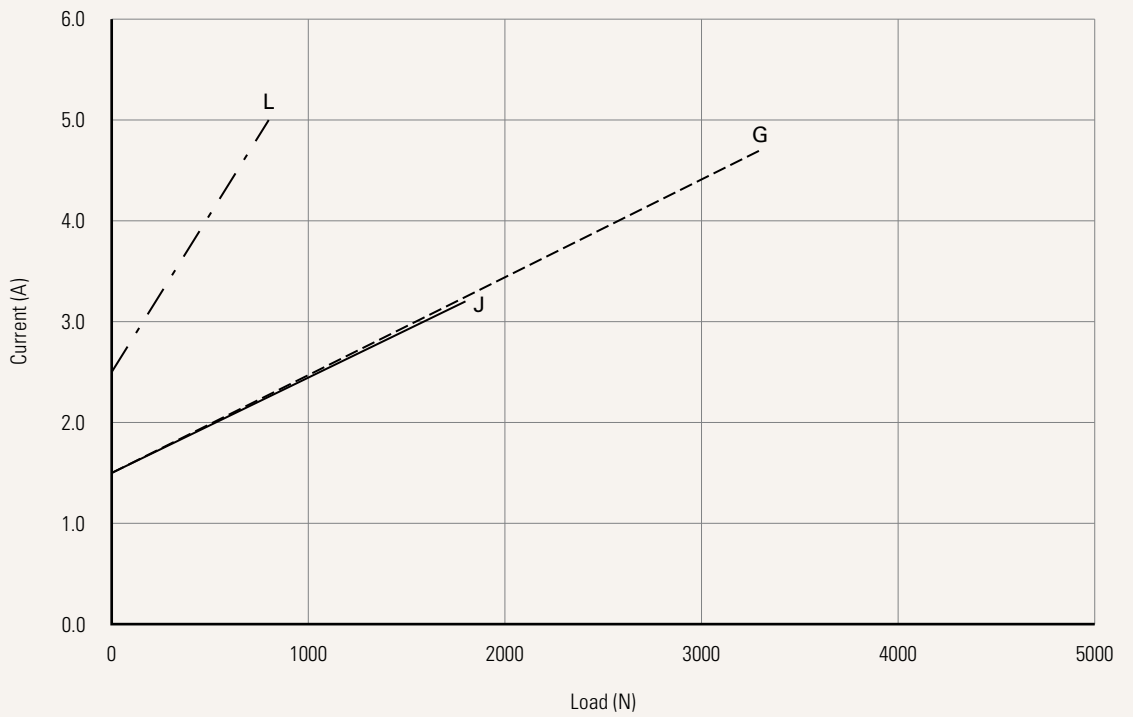
Performance Data (24V DC Motor)

Motor Speed (5600RPM, Duty Cycle 10%)

Speed vs. Load



Current vs. Load



Voltage	U = 100-240VAC, SMPS		
Load and Speed	See page 3		
Stroke (mm)	See page 3		
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	1 = EU 2 = US	3 = AU 4 = UK	5 = JP
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.