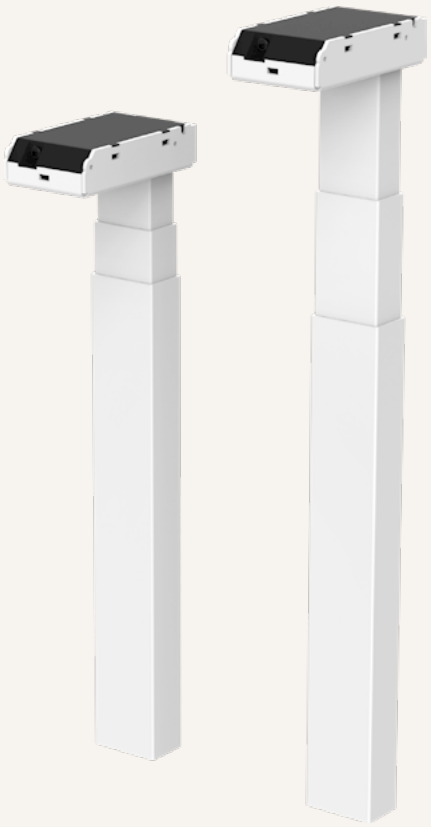
TL41S

series



Product Segments

- **Ergo Motion**

TiMOTION's TL41S series lifting columns are engineered for ergonomic desks and workstations. When paired with compatible TC series control boxes and TH/TDH series controls, multiple TL41S columns deliver quiet, smooth, and synchronized height adjustment. All Ergo Motion TC series control boxes feature a low standby power option (<0.1W), helping to minimize energy consumption. The TL41S features a three-stage telescopic design with a narrow-top, wide-bottom rectangular profile- offering a modern aesthetic without compromising stability. It's adaptable design makes it an excellent solutions for a wide variety of ergonomic applications.

Features

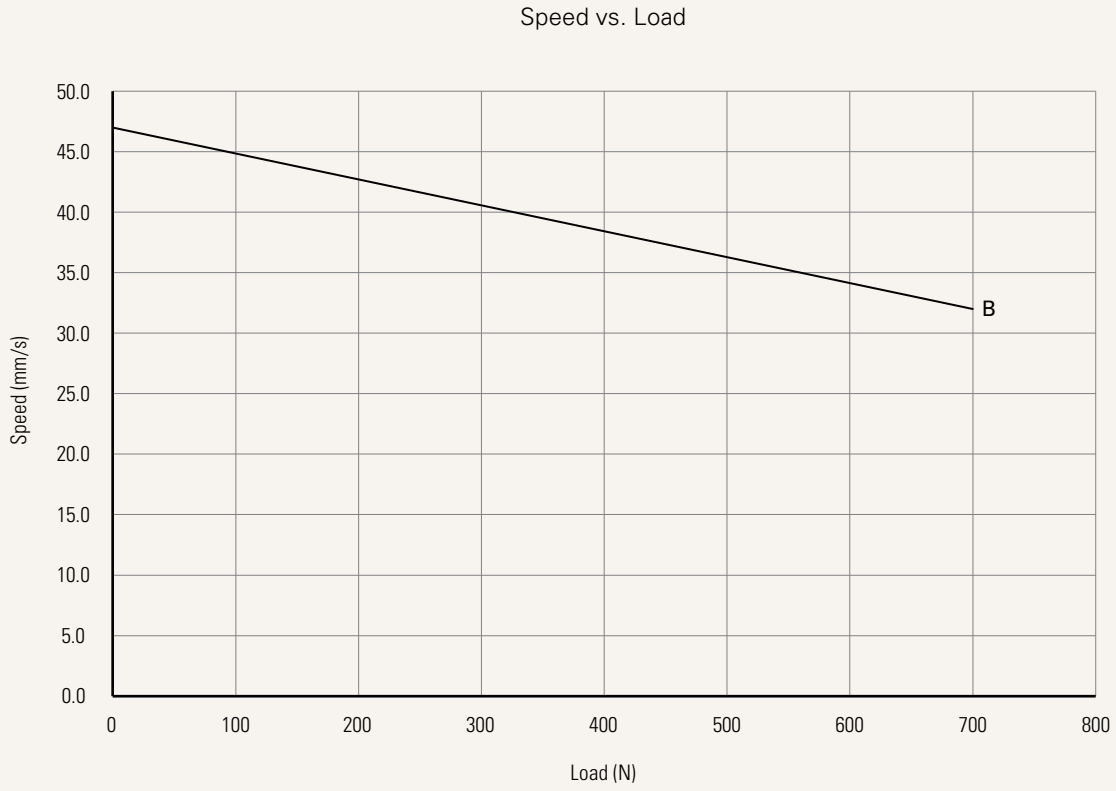
- Load and speed per column

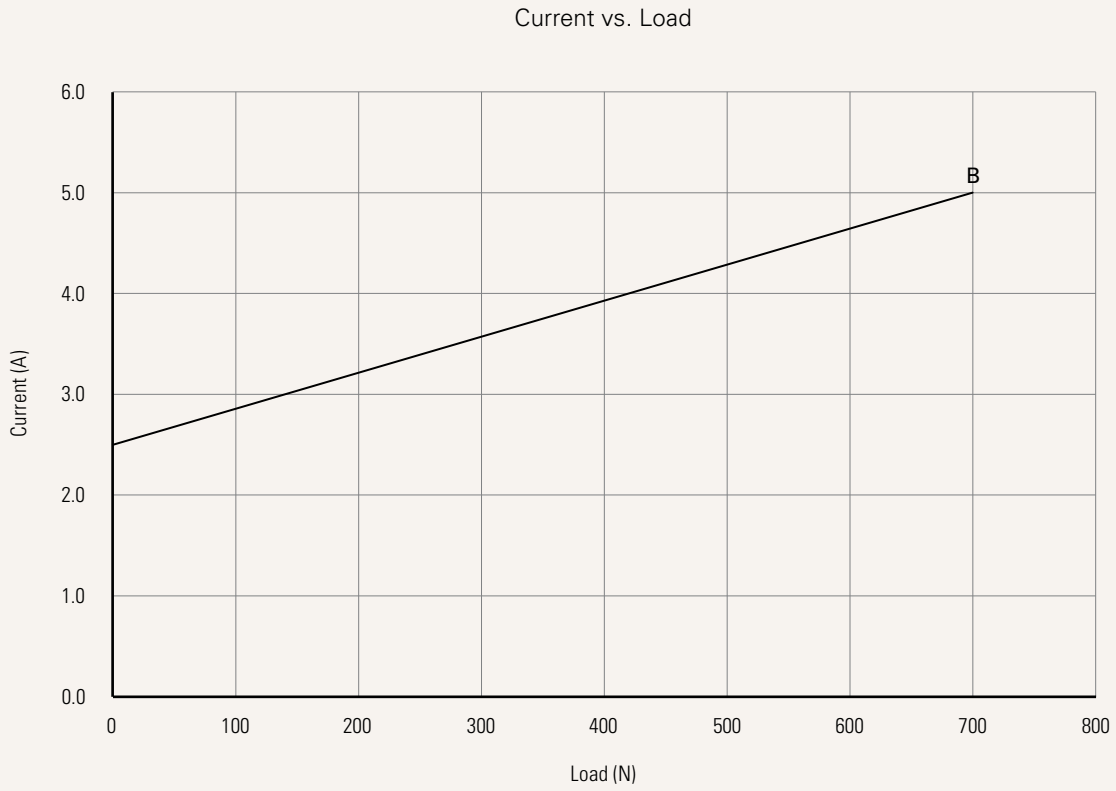
Code	Load (N)	Self Locking Force (N)	Current (A) with 24V DC		Speed (mm/s) with 24V DC	
	Push		No Load	With Load	No Load	With Load
B	700	700	2.5	5.0	47.0	32.0

- Retracted length: 590mm
560mm (M)
520mm (S)
- Stroke: 650mm
660mm (M/S)
- Outer profile: 80*50mm rectangular
- Stages: 3-stage
- Output signals: Hall sensor*2
Pressure sensor + Hall sensor*2
- Voltage: 24V DC
- Color[3]: RAL9005 RAL9006 RAL9016 RAL9022
- Product weight: 6.3kg /column

Performance Data (24V DC Motor)

Motor Speed (5200RPM, short motor)



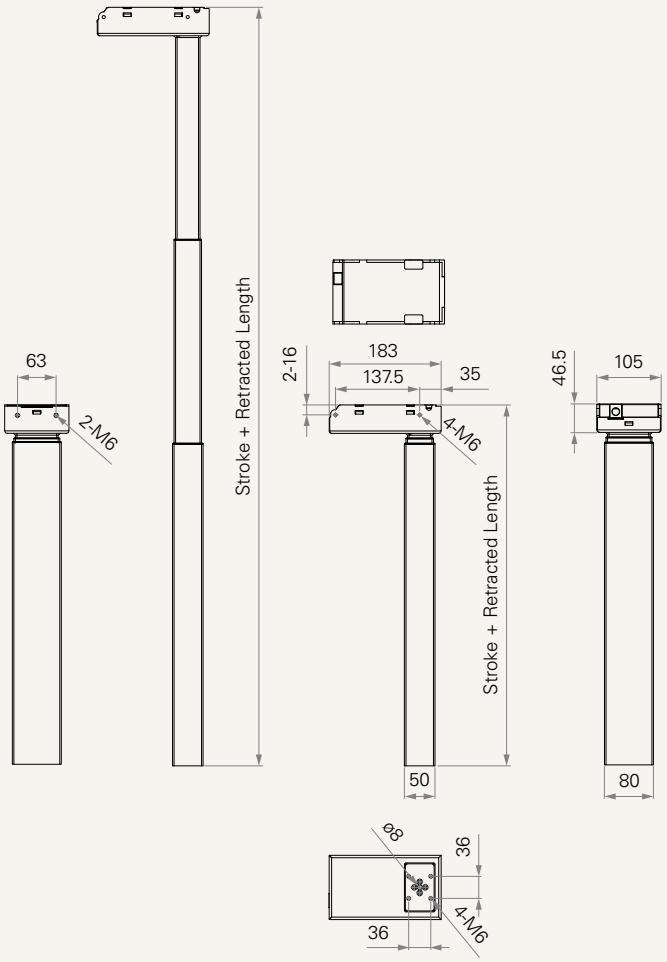


Note

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

Drawing

Standard Dimensions
(mm)



Stroke & Retracted Length		
Options	**Stroke (mm)**	**Retracted Length (mm)**
Standard	650	590
M	660	560
S	660	520

TL41S Ordering Key

TL41S

Version: 20250728-C

Appearance of Motor House See page 6	C = TiMOTION standard	N = Style N		
Voltage	2 = 24V DC			
Load and Speed	See page 2			
Stroke & Retracted Length (mm)	See page 4			
Color	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
Wiper Color	1 = Black	2 = White	3 = Grey	4 = Matte black
Bracket	0 = Without			
Bottom Plate Type See page 6	2 = M6, 36*36, TiMOTION standard		N = M6, 58*34, for style N	
Bottom Plate Height	1 = Standard		2 = Extended outer tube for shoe	
Output Signals	2 = Hall sensor * 2		S = Pressure sensor + Hall sensor*2	
Connector	1 = DIN 6P, 90° plug E = Molex 8P, 180° plug, standard		F = Molex 8P, 90°plug, without anti-clip, for TC22/TC23	
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

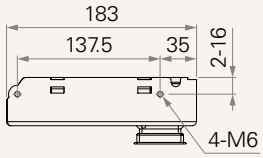
Note

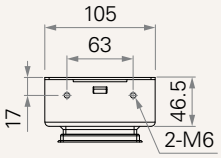
1 The TL is designed especially for push applications, not suitable for pull applications.

TL41S Ordering Key Appendix

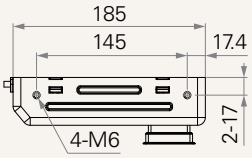
Appearance of Motor House (mm)

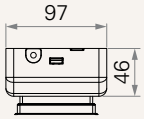
C = TiMOTION standard





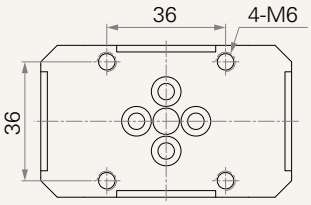
N = Style N



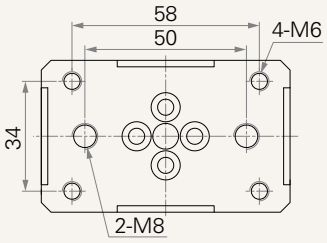


Bottom Plate Type (mm)

2 = M6, 36*36, TiMOTION standard

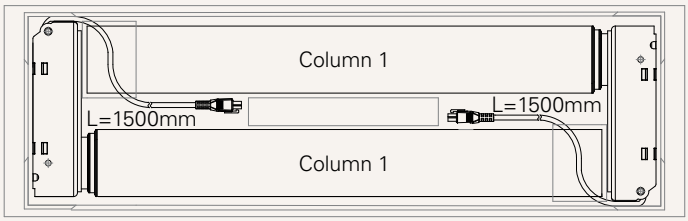


N = M6, 58*34, for style N



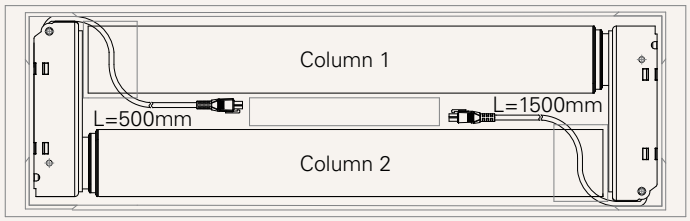
Package

Package of one TL part number



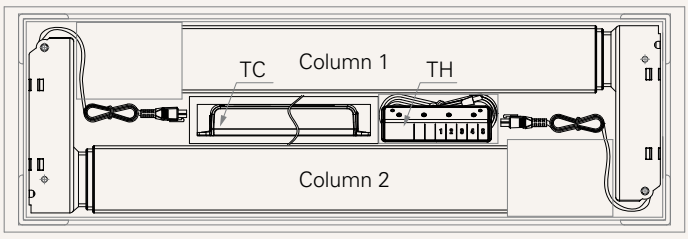
Column: 2pcs TL/box (Same PN& cable length)
Electronic control system: Without
Weight with package: 16KG

Package of two TL part numbers in pairs



Column: 2pcs TL/box (Different PN, cable length, for pair use)
Electronic control system: Without
Weight with package: 16KG

Package of MP part number set-TL in pairs + electronic control system



Column: 2pcs TL/box (Different PN, cable length, for pair use)
Electronic control system: TC + TH
Weight with package: 17KG

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.