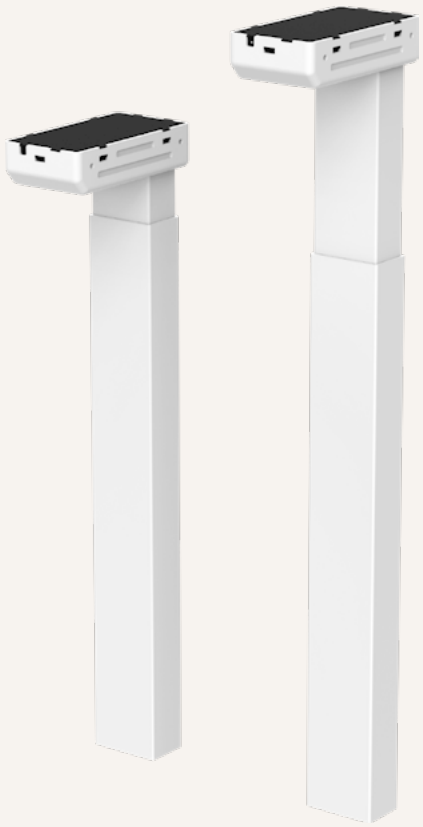
TL42K

series



Product Segments

- **Ergo Motion**

The TL42K is TiMOTION's TL42K high-value, cost-effective lifting column, purpose-built for ergonomic desks, workstations, and other height-adjustable systems. Its two-stage rectangular profile – with narrow-top, wide-bottom design – offers smooth vertical motion and sturdy support, ideal for demanding commercial or industrial environments. Like all TL series columns, the TL42K integrates seamlessly with TC series control boxes and TH/TDH controls, enabling synchronized movement at the touch of a button. Every TC series control box features ultra-low standby power (<0.1W) to help reduce energy consumption.

Backed by TiMOTION's robust portfolio, the TL42K delivers performance, flexibility, and reliability for your most rigorous ergonomic applications.

Features

- Load and speed per column[1][2]

Code	Load (N)	Self Locking Force (N)	Current (A) with 24V DC		Speed (mm/s) with 24V DC	
			No Load	With Load	No Load	With Load
D	600	600	2.2	5.0	32.0	24.0

- Retracted length: Standard outer tube: 645mm
Extended outer tube: 665mm
- Stroke: 500mm
- Outer profile: 80*50mm rectangular
- Stages: 2-stage
- Output signals: Hall sensor*2
- Voltage: 24V DC
- Color[3]: RAL9005 RAL9006 RAL9016 RAL9022
- Product weight: 5.3kg /column
- With motor house

Note

1 The self locking force, current, and speed performance are tested with TiMOTION control boxes.

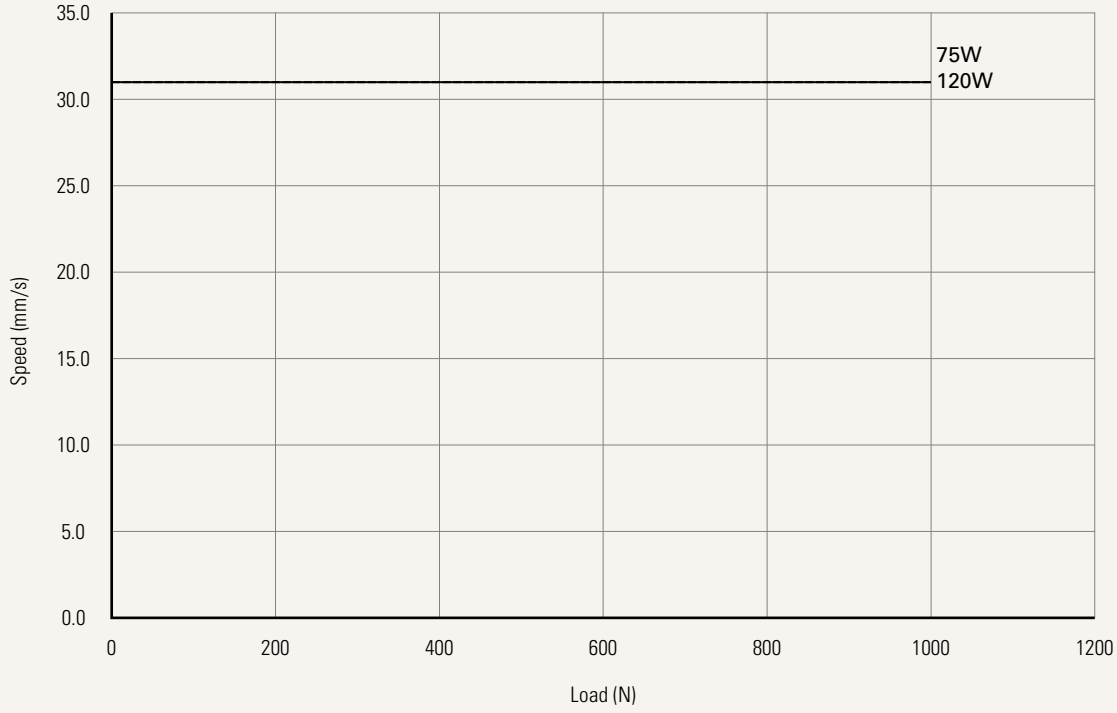
2 The parameters are based on average test values; final specifications are subject to the approval drawings.

3 For more color options, please consult your sales representative.

Performance Data with Control Box

The following is the performance data of two columns driven by an Ergo Motion control box TC15S. The load is evenly distributed on the work surface.[4]

- TL42K, two columns driven by TC15S



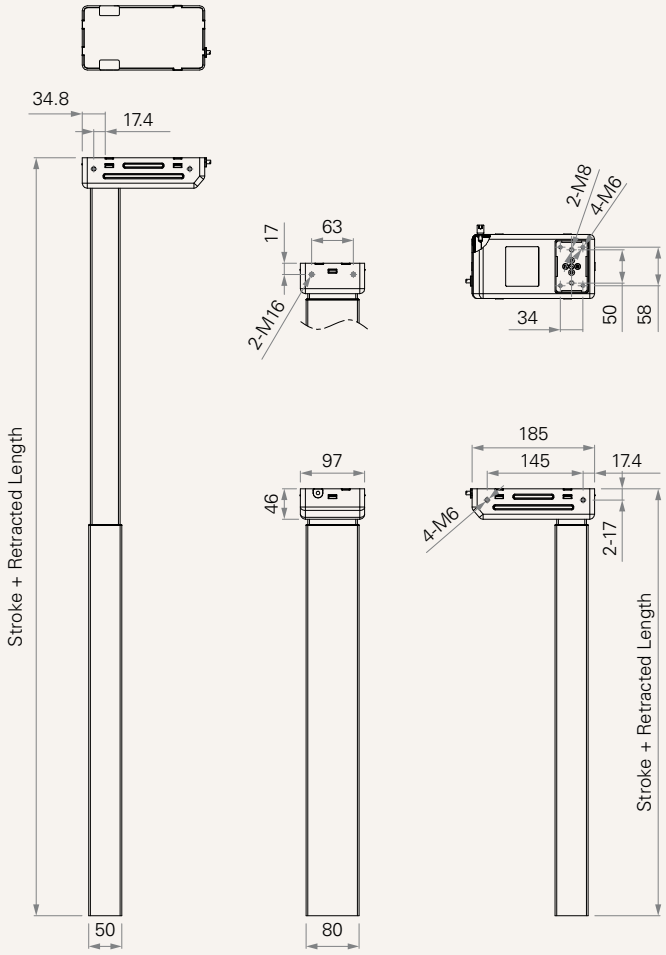
TC15S Spec	Load (N)	Constant Speed (mm/s) with TC15S
75W	1000	31
120W	1000	31

Note

4 The corresponding control box software is required.

Drawing

Standard Dimensions
(mm)



Stroke & Retracted Length			
	Options	**Stroke (mm)**	**Retracted Length (mm)**
Standard Outer Tube	Standard	500	645
Extended Outer	Standard	500	665

Note

1 Only specific TEK could be with the shoes, please refer to TEK speccode.

TL42K Ordering Key

TL42K

Version: 20251112-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	
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			
Connector	1 = DIN 6P, 90° plug E = Molex 8P, 180° plug, standard		F = Molex 8P, 90°plug, without anti-clip, for TC22 / TC23 G = Molex 6P, 180° plug for TCH series	
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

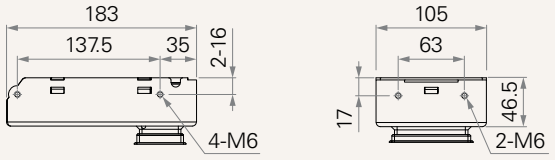
Note

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

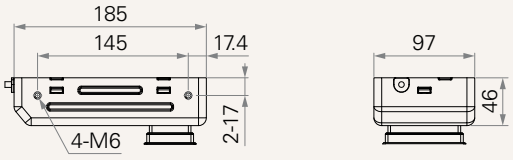
TL42K Ordering Key Appendix

Appearance of Motor House (mm)

C = TiMOTION standard

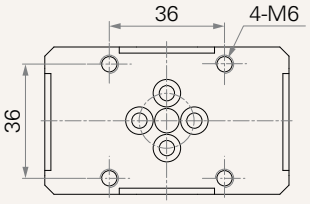


N = Style N

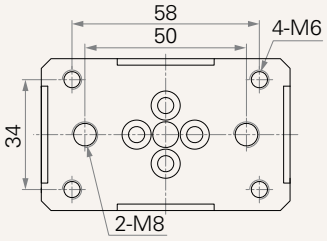


Bottom Plate Type (mm)

2 = M6, 36*36, TiMOTION standard

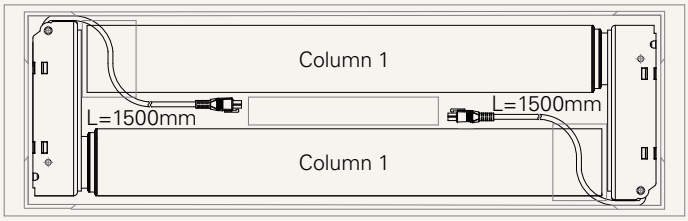


N = M6, 58*34, for style N



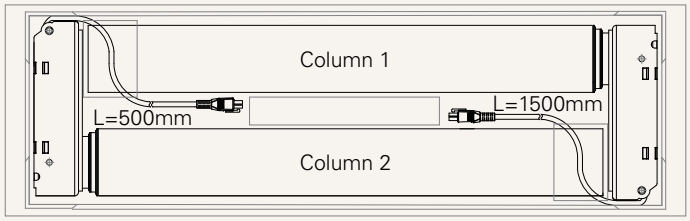
Package

Package of one TL part number



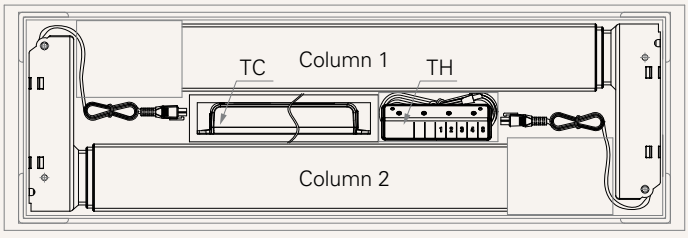
Column: 2pcs TL/box (Same PN& cable length)
Electronic control system: Without
Weight with package: 16KG

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.