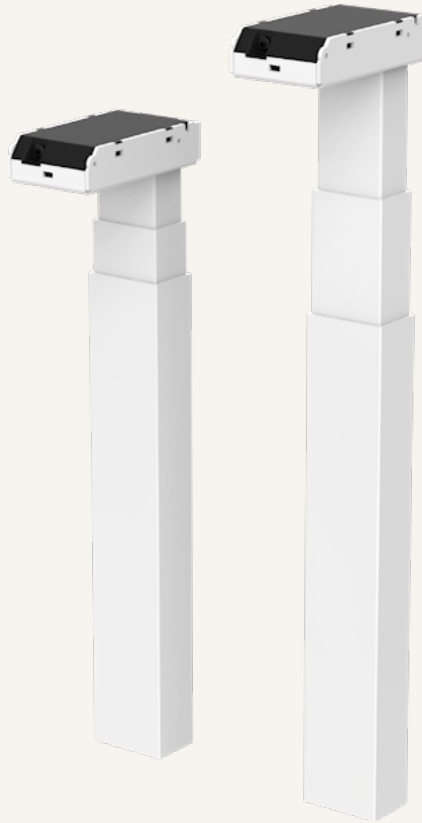


TL31S

series



Product Segments





- **Ergo Motion**

TiMOTION's TL31S series lifting columns are specifically designed for use in ergonomic desks and work tables. Using multiple TL series lifting columns with compatible TC series control boxes and TH / TDH series controls, work surfaces can be controlled quietly and smoothly with synchronous movement. All Ergo Motion TC series control boxes have a less than 0.1W standby power option that reduces power consumption. Our wide range of columns offers customers the solutions they require to satisfy their project requirements. The TL31S has a three stage telescopic outer tube that is designed for a narrow-top, wide-bottom rectangular appearance.

Features

- Load and speed per column¹²

Code	Load (N)	Self Locking Force (N)	Current (A) with 29V DC		Speed (mm/s) with 29V DC	
			No Load	With Load	No Load	With Load
B	700	700	2.5	5.0	47.0	32.0

- Retracted length Standard (compatible with foot): 590 / 560(M) / 520(S)mm
- Stroke Standard: 650mm;
M/S: 660mm
- Outer profile 90*60mm rectangular
- Stages 3-stage
- Output signals Hall sensors
- Voltage 24V DC, 24V DC (UL)
- Color³  RAL9005  RAL9006  RAL9016  RAL9022
- Product weight 7.9kg /column
- With motor house

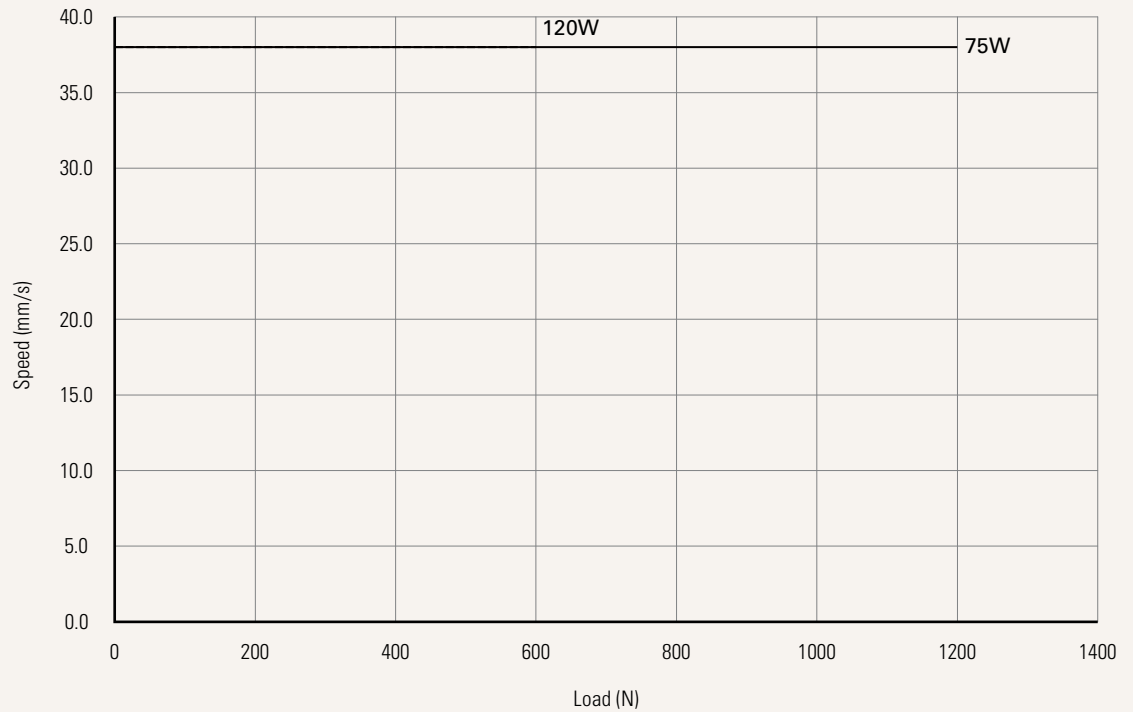
Note

- 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

- TL33S, two columns driven by TC15S



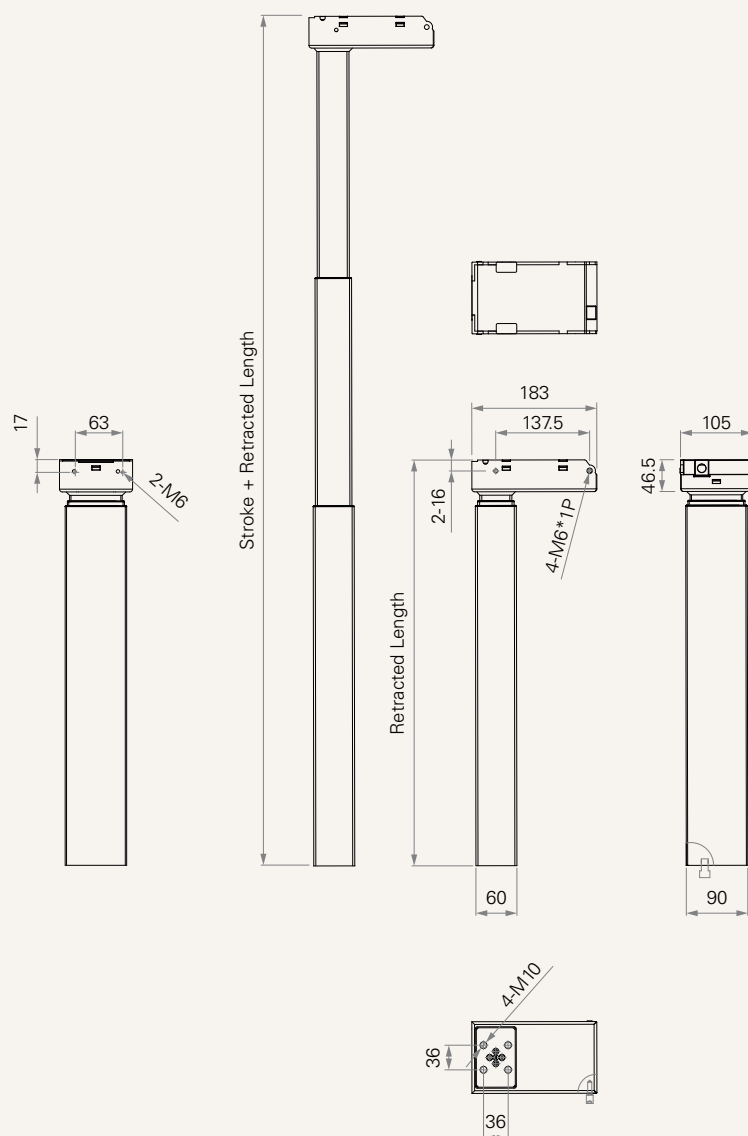
TC15S Spec	Load (N)	Constant Speed (mm/s) with TC15S
75W	1200	38
120W	1200	38

Note

- ⁴ The corresponding control box software is required.

Drawing

Standard Dimensions
(mm)



Stroke & Retracted Length

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

TL31S

Version: 20241113-F

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 See page 6	0 = Without	L = Left, Standard bracket	R = Right, Standard bracket	
Bottom Plate Type See page 6	1 = M10, 36*36, TiMOTION standard		2 = M6, 36*36, TiMOTION standard	
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	
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

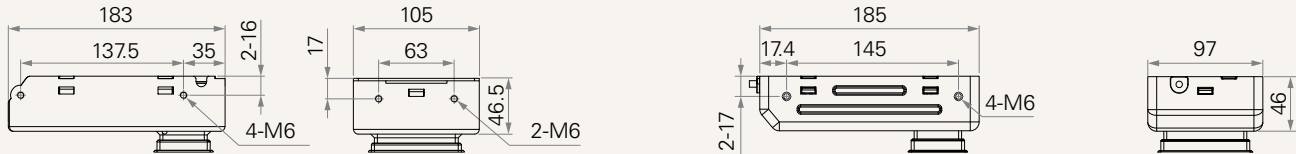
Note

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

Appearance of Motor House (mm)

1 = M10, 36*36, TiMOTION standard

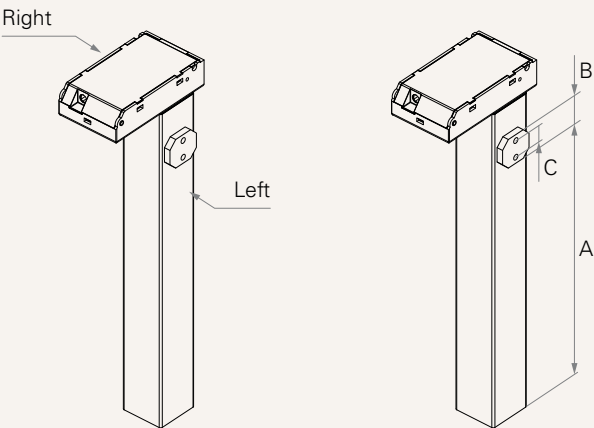
2 = M6, 36*36, TiMOTION standard



Bracket / Bracket (Standard)

Direction

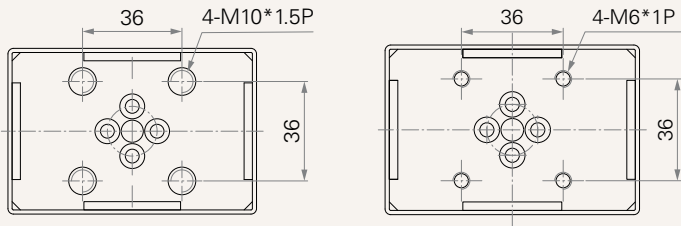
Dimension



Bottom Plate Type (mm)

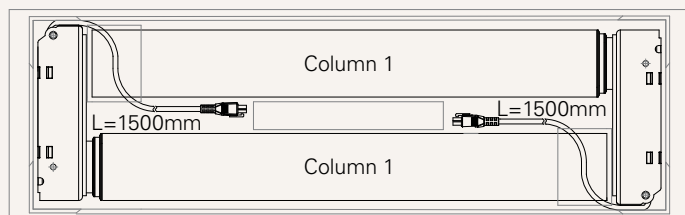
1 = M10, 36*36, TiMOTION standard

2 = M6, 36*36, TiMOTION standard



Package

Package of one TL part number

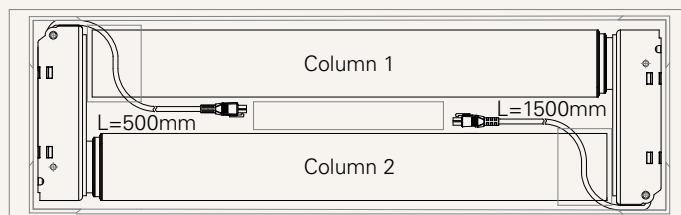


Column: 2pcs TL/box (Same PN& cable length)

Electronic control system: Without

Weight with package: 16KG

Package of two TL part numbers in pairs

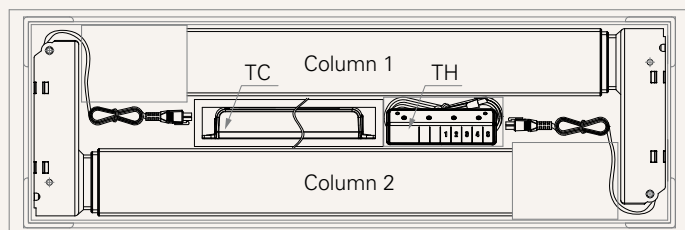


Column: 2pcs TL/box (Different PN, cable length, for pair use)

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.