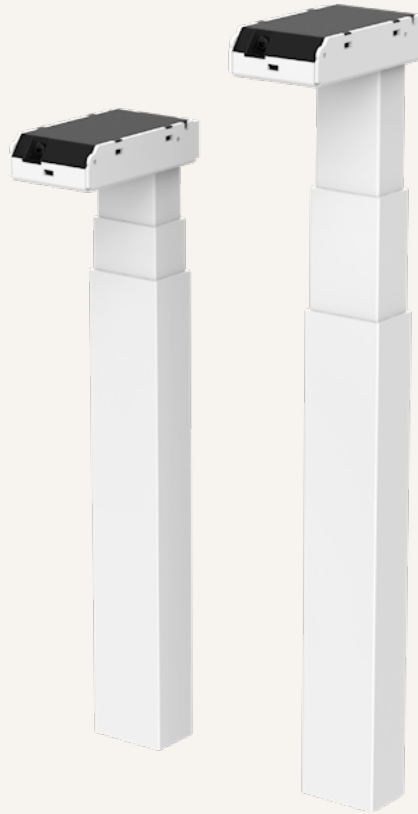


TL31K

series



Product Segments

- **Ergo Motion**





TiMOTION's TL31K series is a high-value, cost-effective lifting column designed explicitly for ergonomic desks, work tables, and other height-adjustable systems. Multiple TL series lifting columns can be easily connected to compatible TC series control boxes, supporting synchronous movement with a press of a button on the supported TH / TDH series controls. All Ergo Motion TC series control boxes have a standby power option of less than 0.1W to reduce power consumption. Our wide range of columns and controls offer modular solutions to satisfy customers' project requirements for a variety of work environments, providing smooth and quiet operation of any worksurface.

The TL31K has a rectangular, three-stage telescopic profile, designed with a narrow-top, and wide-bottom.

Features

- Load and speed per column¹²

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
D	600	600	2.5	6.0	38.0	24.0

- Retracted length
Standard (compatible with foot): 590 / 560(M) / 520(S)mm
Extended (compatible with shoe): 610 / 580(M) / 540(S)mm
- Stroke
Standard: 650mm
M/S: 660mm
- Outer profile
90*60mm rectangular
- Stages
3-stage
- Output signals
Hall sensors
- Voltage
24V DC
- Color³
 RAL9005
  RAL9006
  RAL9016
  RAL9022
- Product weight
7.9Kg /column

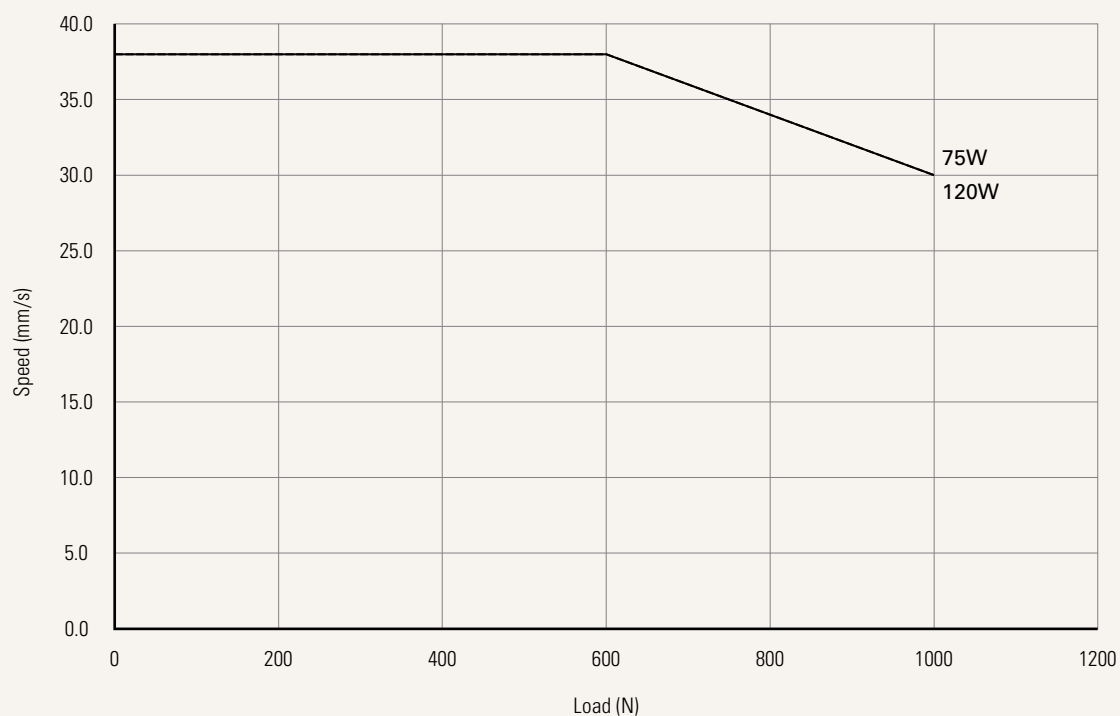
Note

- 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

- TL31K, two columns driven by TC15S



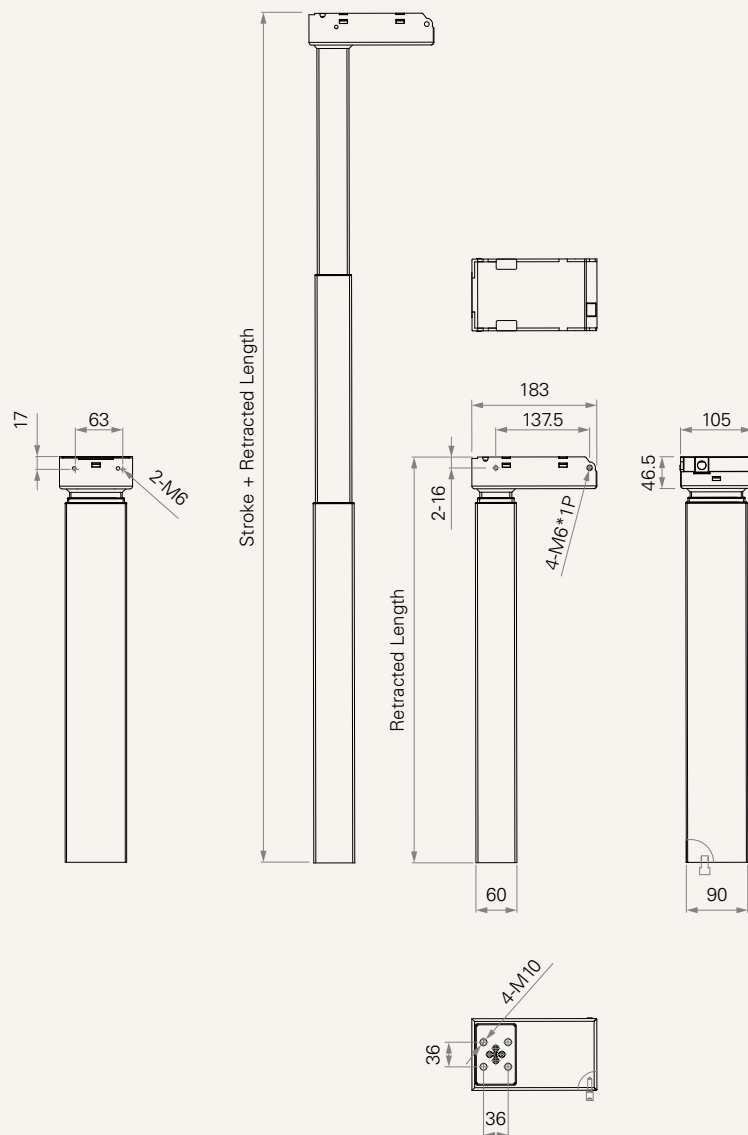
TC15S Spec	Load (N)	Constant Speed (mm/s) with TC15S
75W	1000	38
120W	1000	38

Note

⁴ The corresponding control box software is required.

Drawing

Standard Dimensions
(mm)



Stroke & Retracted Length

Standard Outer Tube Compatible with Foot (Excluding Foot)	Options	Stroke (mm)	Retracted Length (mm)
	Standard	650	590
	M	660	560
	S	660	520
Extended Outer Tube Compatible with Shoe (Excluding Shoe)	Standard	650	610
	M	660	580
	S	660	540

Note

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

Appearance of Motor House	C = TiMOTION standard		N = Style N	
Voltage	2 = 24V DC			
Load and Speed	See page 2			
Stroke & Retracted Length (mm)	650 590 = 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	L = Left, Standard bracket	R = Right, Standard bracket	
Bottom Plate Type	1 = M10, 36*36, TiMOTION standard		2 = M6, 36*36, TiMOTION standard	
	See page 6			
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	
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

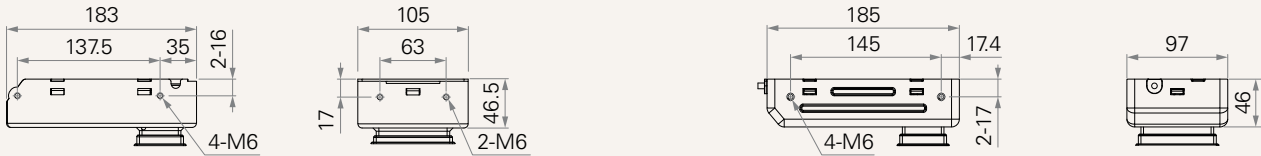
Note

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

Appearance of Motor House (mm)

C = TiMOTION standard

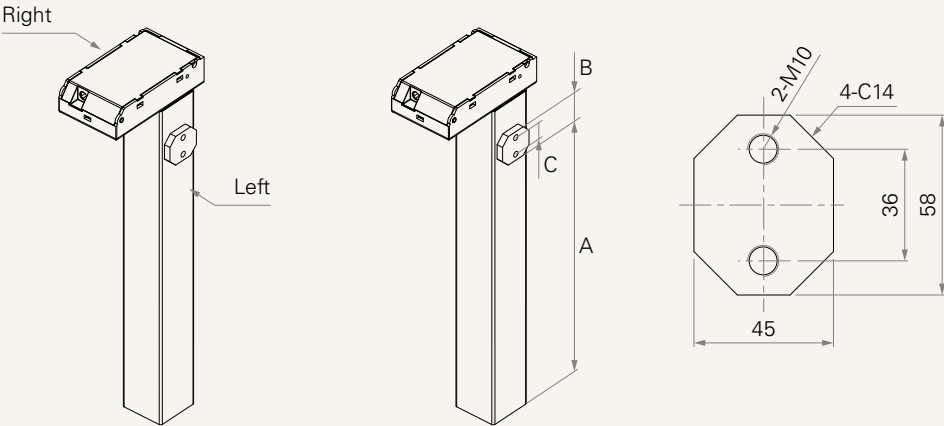
N = Style N



Bracket / Bracket (Standard)

Direction

Dimension (mm)

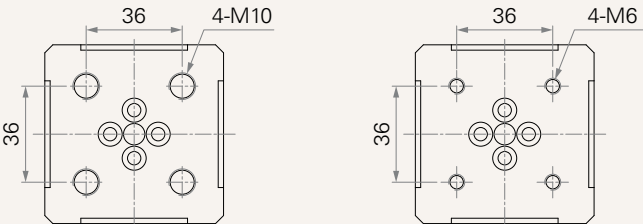


Standard Outer Tube Compatible with Foot (Excluding Foot)		A (mm)	B (mm)	C (mm)
	Standard	430.5	58	36
	M	404.5	58	36
	S	364.5	58	36
Extended Outer Tube Compatible with Shoe (Excluding Shoe)		A (mm)	B (mm)	C (mm)
	Standard	450.5	58	36
	M	424.5	58	36
	S	384.5	58	36

Bottom Plate Type (mm)

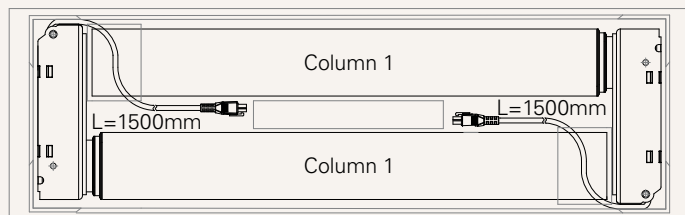
1 = M10, 36*36, TiMOTION standard

2 = M6, 36*36, TiMOTION standard



Package

Package of one TL part number

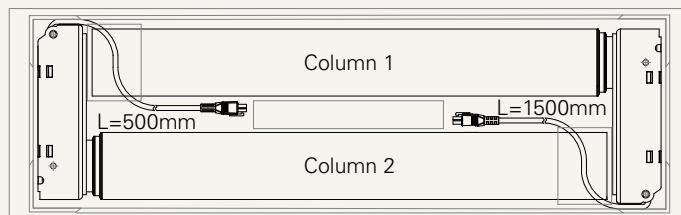


Column: 2pcs TL/box (Same PN& cable length)

Electronic control system: Without

Weight with package: 16KG

Package of two TL part numbers in pairs

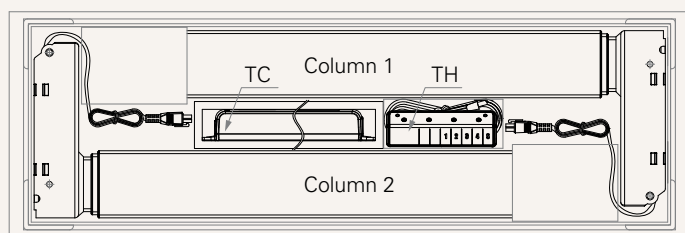


Column: 2pcs TL/box (Different PN, cable length, for pair use)

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.