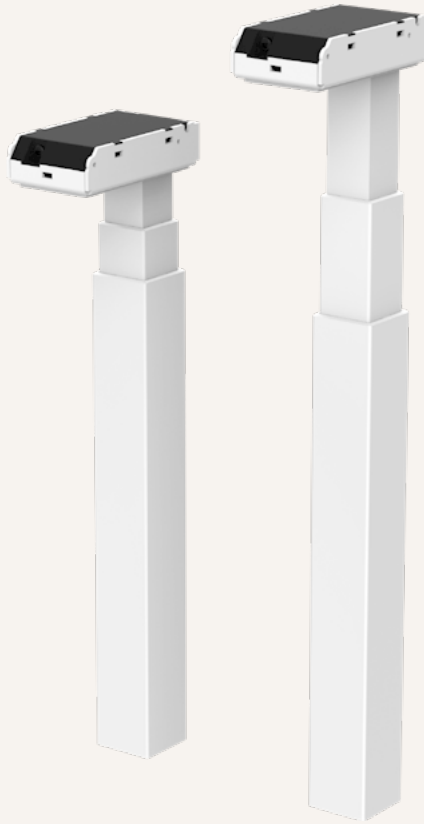


TFL4H

series



Product Segments

• Ergo Motion

TiMOTION's TFL4H is a cutting-edge lifting column designed for high-speed performance and heavy-duty lifting. Engineered for demanding applications such as workbenches and TV stands, it delivers rapid, seamless height adjustments without compromising strength or stability.

Pair multiple TFL4H lifting columns with the high-power TC control box to create customized solutions tailored to your project's specific needs. With synchronized movement, exceptional speed, and robust lifting capacity, the TFL4H ensures a superior lifting experience.

- FastRise technology for quick height adjustments
- Heavy-duty load capacity for demanding applications
- Three-stage telescopic structure for enhanced stability and reach

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
F	900	900	3.0	7.0	44.5	33.9

- Retracted length 590mm
560mm (M)
520mm (S)
- Stroke 650mm
660mm (M/S)
- Outer profile 70*70mm square
- Stages 3-stage
- Output signals Hall sensor*2, Pressure sensor + Hall sensor*2
- Voltage 24V DC
- Color³  RAL9005  RAL9006  RAL9016  RAL9022
- Product weight 8.2kg /column

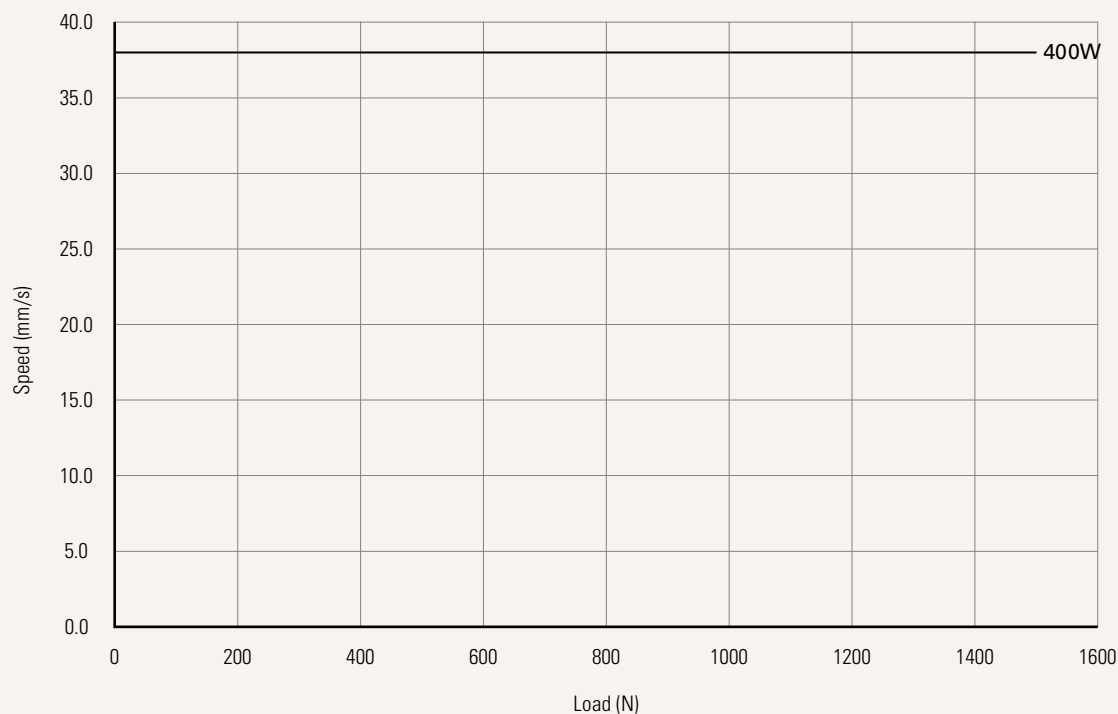
Note

- 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 TC15F. The load is evenly distributed on the work surface.⁴

- TFL4H, two columns driven by TC15F



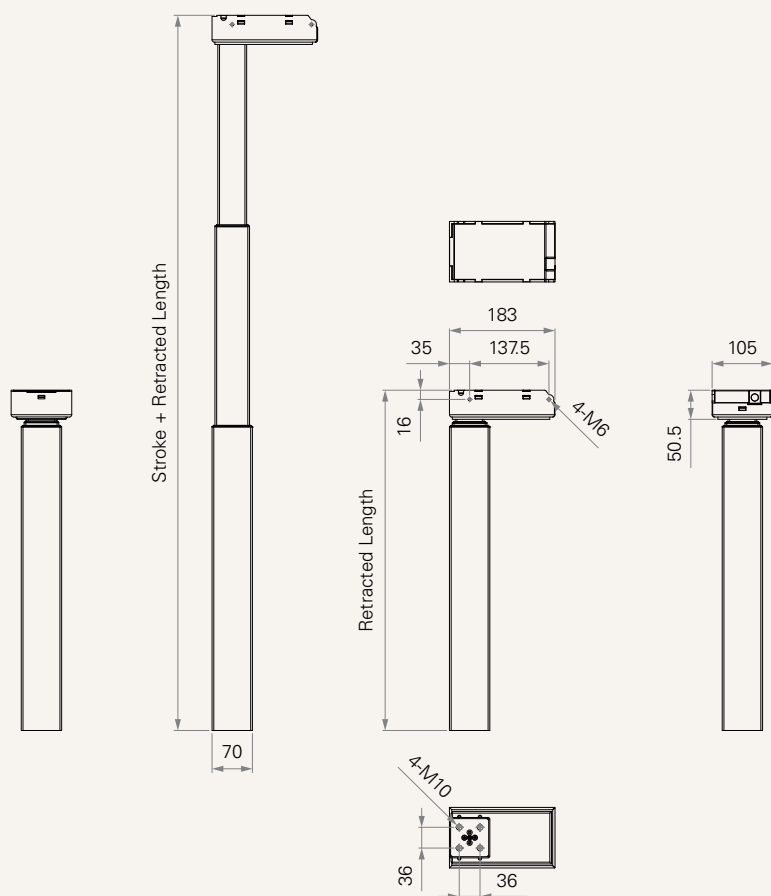
TC15F Spec	Load (N)	Constant Speed (mm/s) with TC15F
400W	1500	38

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

Note

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

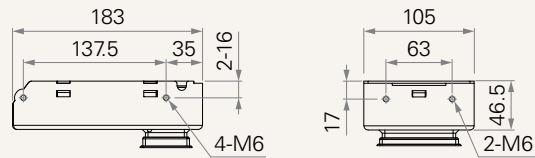
Appearance of Motor House See page 6	C = TiMOTION standard			
Voltage	2 = 24V DC			
Load and Speed	See page 2			
Stroke & Retracted Length (mm)	See page 4			
Color	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
Wiper Color	1 = Black	2 = White	3 = Grey	4 = Matte black
Bracket See page 7	0 = Without L = Left, Standard bracket		R = Right, Standard bracket B = Back, Standard bracket (For wall mounting application)	
Bottom Plate Type (mm) See page 8	1 = M10, 36*36, TiMOTION standard			
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 G = Molex 6P, 180° plug for TCH series hand-control	
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)

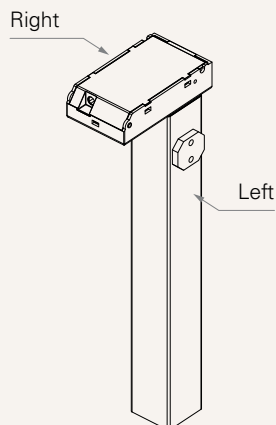
C = TiMOTION standard



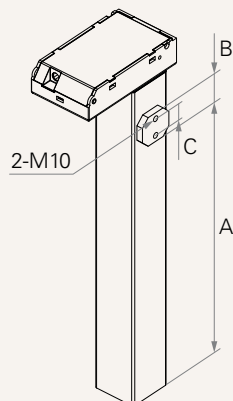
Bracket / Bracket (mm)

• Standard

Direction



Dimension



As in illustration: Standard bracket dimension & height

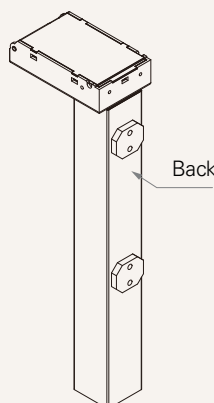
Standard Outer Tube Compatible with Foot (Excluding Foot)	A	B	C
Standard	440.5	48	28
M	414.5	48	28
S	374.5	48	28

Extended Outer Tube
Compatible with Shoe
(Excluding Shoe)

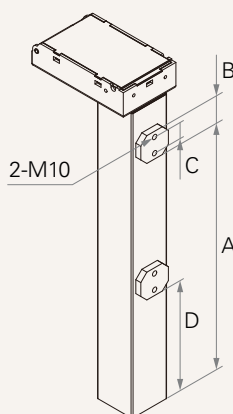
	A	B	C
Standard	460.5	48	28
M	434.5	48	28
S	394.5	48	28

• Back, Standard bracket (For wall mounting application)

Direction



Dimension

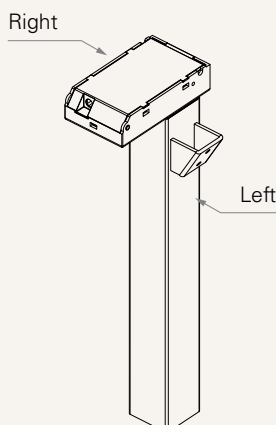


As in illustration: Standard bracket dimension & height

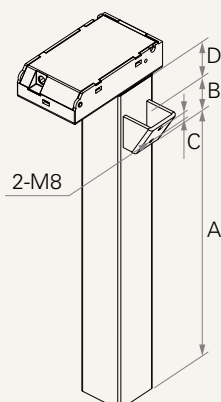
Extended Outer Tube Compatible with Shoe (Excluding Shoe), for Wall Mounting Application	A	B	C	D
Standard	456	48	28	200
M	426	48	28	200
S	386	48	28	200

• Triangle

Direction



Dimension

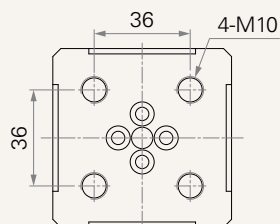


As in illustration: Triangle bracket dimension & height

Extended Outer Tube Compatible with Shoe (Excluding Shoe), for Wall Mounting Application	A	B	C	D
Standard	456.5	48	28	200
M	430.5	48	28	200
S	390.5	48	28	200

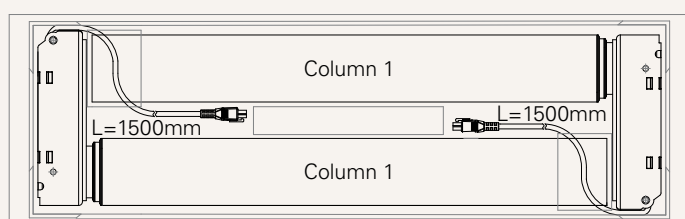
Bottom Plate Type (mm)

1 = M10, 36*36, TiMOTION standard



Package

Package of one TL part number

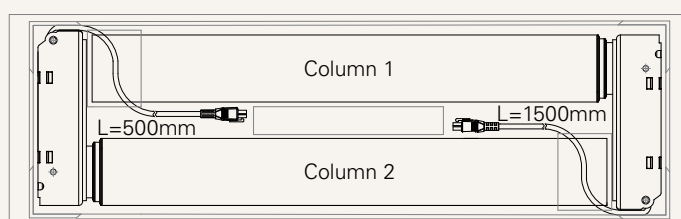


Column: 2pcs TL/box (Same PN& cable length)

Electronic control system: Without

Weight with package: 19KG

Package of two TL part numbers in pairs

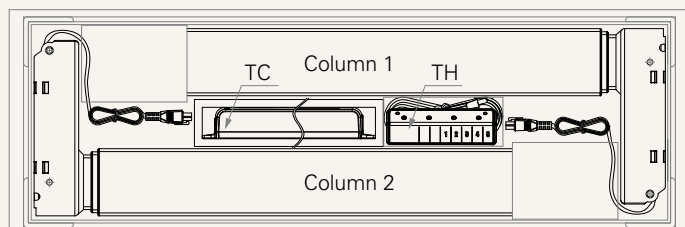


Column: 2pcs TL/box (Different PN, cable length, for pair use)

Electronic control system: Without

Weight with package: 19KG

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: 20KG

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.