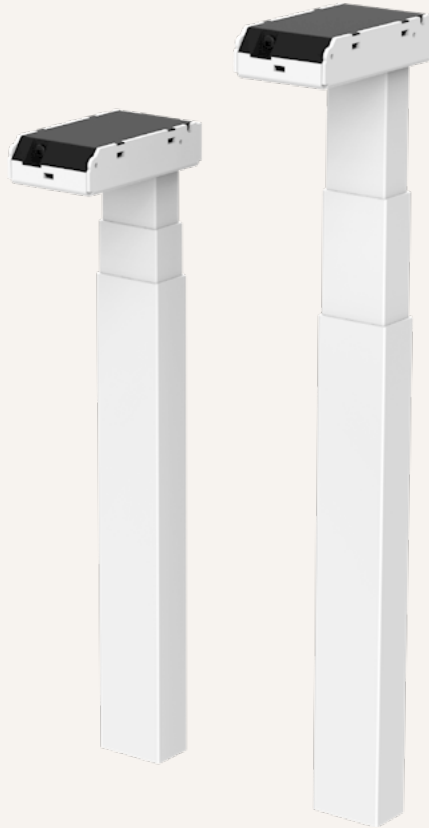


# TFL41S

series



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## Product Segments

### • Ergo Motion

Introducing TiMOTION's TFL41S, a high-speed lifting column designed for a variety of ergonomic height-adjustable applications. Experience swift and seamless position adjustments with unmatched efficiency, enhancing your workspace with a smooth and effortless user experience.





Pair multiple TFL41S lifting columns with the TC control box series to create customized solutions that precisely meet your project's specific requirements. The TFL41S offers synchronized movement that is swift, seamless, and quiet, delivering a superior lifting experience.

- FastRise technology for quick height adjustments
- Three-stage telescopic structure with a rectangular profile

### Features

- Load and speed per column<sup>12</sup>

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
F	600	600	5.0	9.0	75.0	55.0

- Retracted length
  - Standard outer tube:  
590mm  
560mm (M)
  - Extended outer tube:  
610mm  
580mm (M)
- Stroke
  - 650mm  
660mm (M)
- Outer profile
  - 80\*50mm rectangular
- Stages
  - 3-stage
- Output signals
  - Hall sensor \* 2, Pressure sensor + Hall sensors \* 2
- Voltage
  - 24V DC
- Color<sup>3</sup>
  -  RAL9005
  -  RAL9006
  -  RAL9016
  -  RAL9022
- Product Weight
  - 6.3kg /column

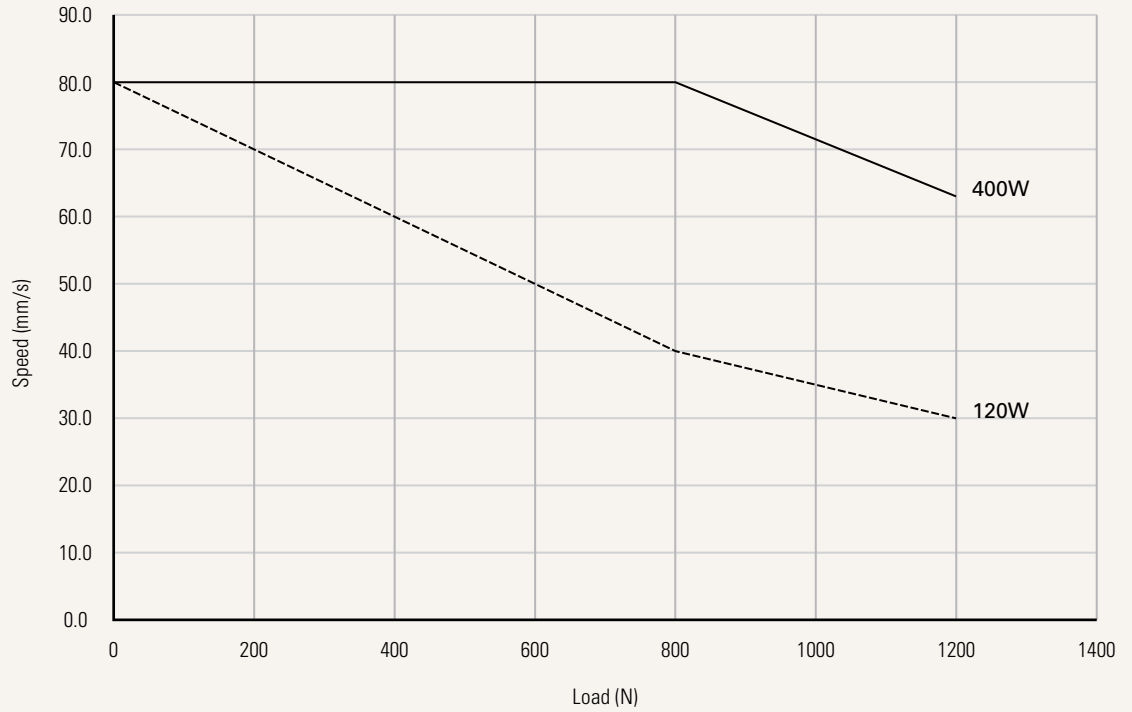
### Note

- 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.<sup>4</sup>

- TFL41S, two columns driven by TC15F



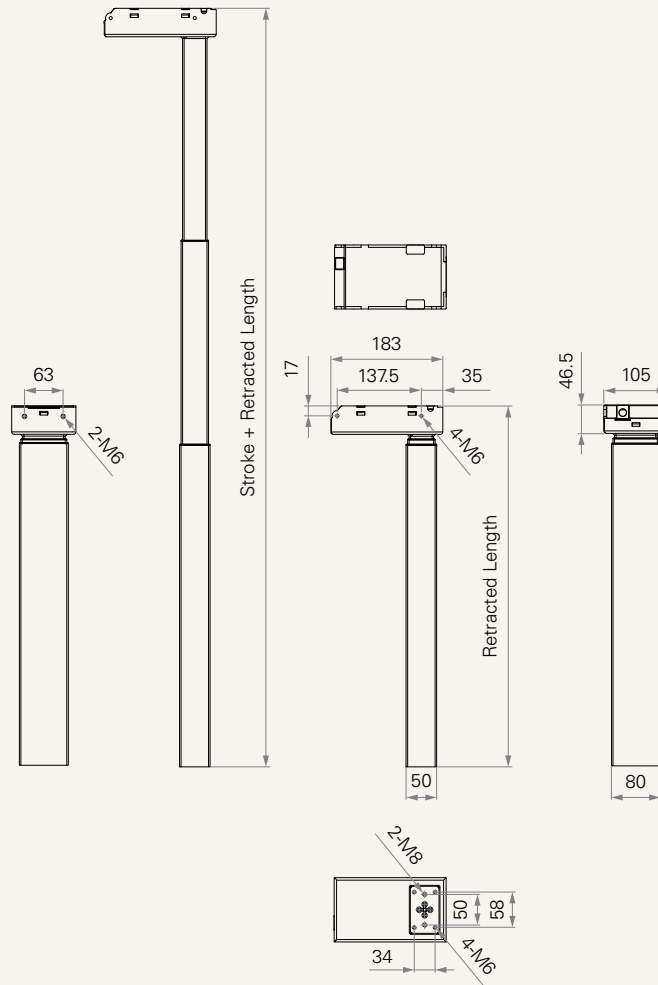
TC15F Spec	Load (N)	Constant speed (mm/s) with TC15F
<b>120W</b>	1200	40
<b>400W</b>	1200	80

**Note**

<sup>4</sup> The corresponding control box software is required.

**Drawing**

Standard Dimensions  
(mm)



<b>Stroke &amp; Retracted Length</b>			
	<b>Options</b>	<b>Stroke (mm)</b>	<b>Retracted Length (mm)</b>
<b>Standard Outer Tube</b>	Standard	650	590
	M	660	560
<b>Extended Outer Tube</b>	Standard	650	610
	M	660	580

**Note**

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

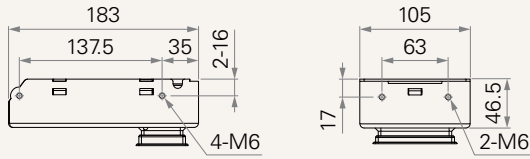
<b>Appearance of Motor House (mm)</b> <a href="#">See page 6</a>	C = TiMOTION standard	N = Style N		
<b>Voltage</b>	2 = 24V DC			
<b>Load and Speed</b>	<a href="#">See page 2</a>			
<b>Stroke &amp; Retracted Length (mm)</b>	650 590 = <a href="#">See page 4</a>			
<b>Color</b>	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
<b>Wiper Color</b>	1 = Black	2 = White	3 = Grey	4 = Matte black
<b>Bracket</b>	0 = Without			
<b>Bottom Plate Type (mm)</b> <a href="#">See page 6</a>	2 = M6, 36*36, TiMOTION standard		N = M6, 58*34, for style N	
<b>Bottom Plate Height</b>	1 = Standard		2 = Extended outer tube for shoe	
<b>Output Signals</b>	2 = Hall sensor * 2		S = Pressure sensor + Hall sensor * 2	
<b>Connector</b>	1 = DIN 6P, 90° plug E = Molex 8P, 180° plug, standard		F = Molex 8P, 90° plug, without anti-clip, for TC22/TC23	
<b>Cable Length (mm)</b>	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

### Note

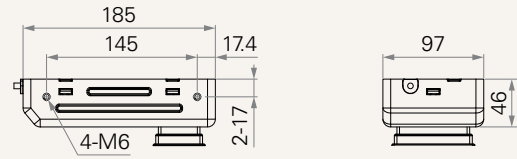
<sup>1</sup> The TL is designed especially for push applications, not suitable for pull applications.

## Appearance of Motor House (mm)

C = TiMOTION standard

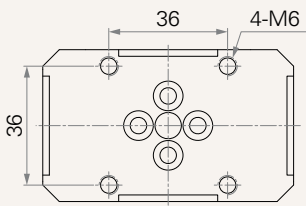


N = Style N

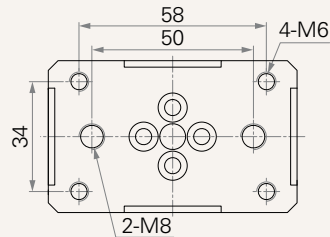


## Bottom Plate Type (mm)

2 = M6, 36\*36, TiMOTION standard

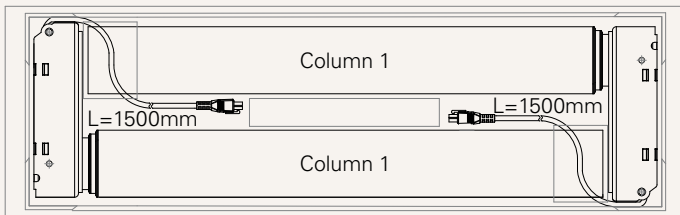


N = M6, 58\*34, for style N



## Package

Package of one TL part number

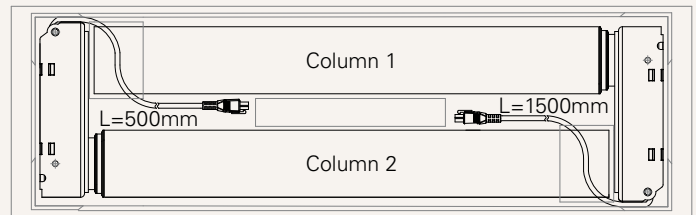


Column: 2pcs TL/box (Same PN& cable length)

Electronic control system: Without

Weight with package: 16KG

Package of two TL part numbers in pairs

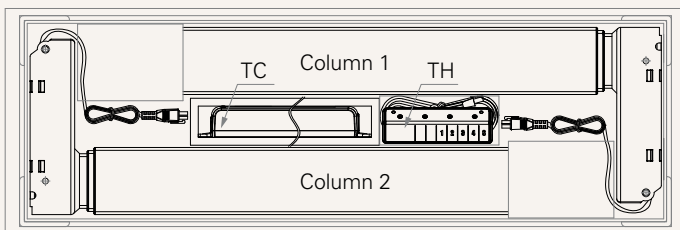


Column: 2pcs TL/box (Different PN, cable length, for pair use)

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.