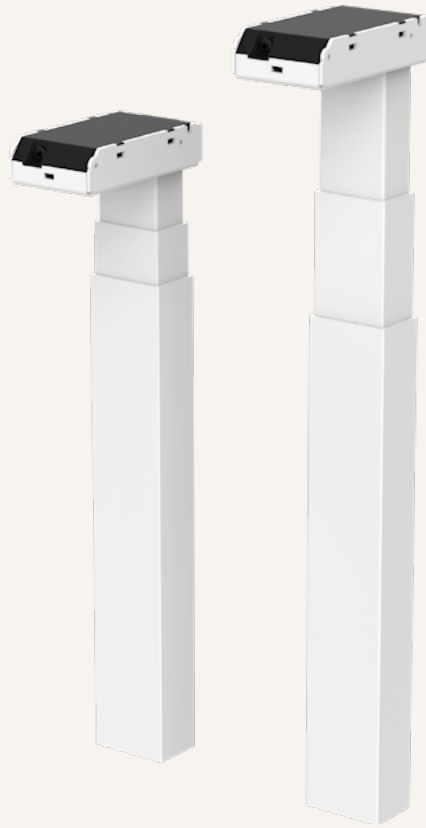


# TFL31S

series



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## Product Segments

### • Ergo Motion

Introducing TiMOTION's TFL31S, a high-speed lifting column designed for a variety of ergonomic height-adjustable applications. Experience swift and seamless position adjustments with exceptional efficiency, enhancing your workspace with a smooth and effortless user experience.





Pair multiple TFL31S lifting columns with the TC control box series to create customized solutions that perfectly align with your project's specific requirements. The TFL31S offers synchronized movement that is fast, smooth, and quiet, providing 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 590mm  
560mm (M)
- Stroke 650mm  
660mm (M)
- Outer profile 90\*60mm rectangular
- Stages 3-stage
- Output signals Hall sensors
- Voltage 24V DC
- Color<sup>3</sup>
 RAL9005
  RAL9006
  RAL9016
  RAL9022
- Product weight 7.9Kg / column
- With motor house

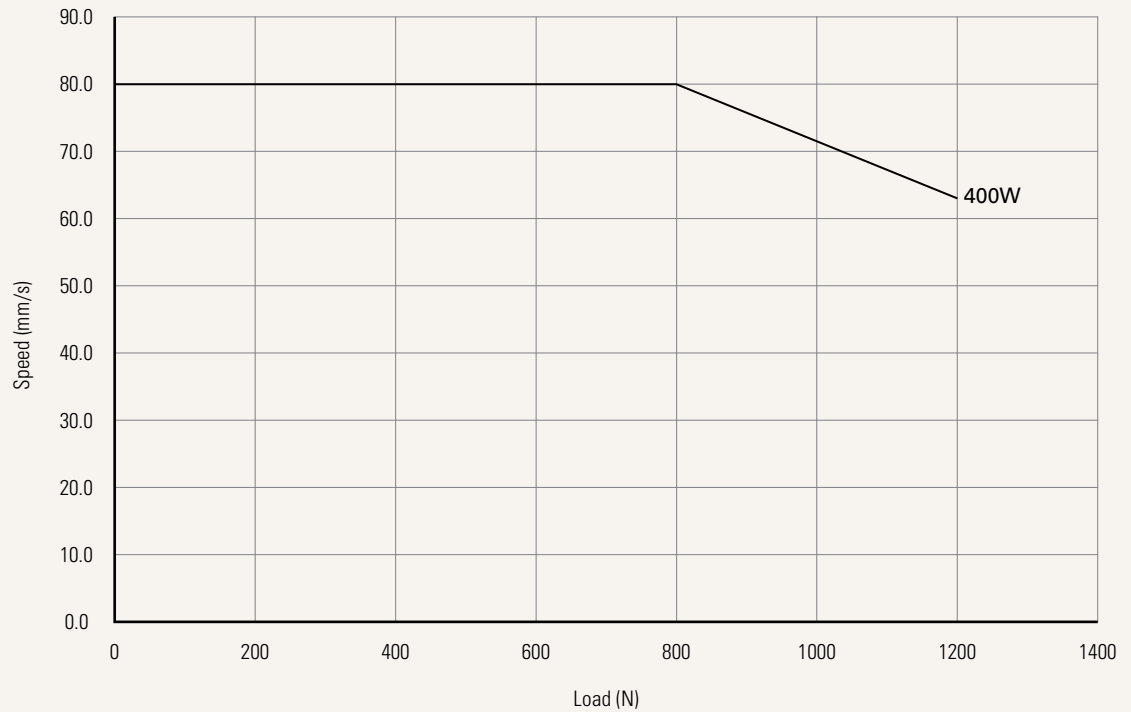
## Note

- <sup>1</sup> The self-locking force, current, and speed performance are defined with use of TiMOTION control boxes.
- <sup>2</sup> The parameters are based on average test values; final specifications are subject to the approval drawings.
- <sup>3</sup> For more color options, please consult your sales representative.
- <sup>4</sup> The corresponding control box software is required.

### 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>

- TFL31S, two columns driven by TC15F



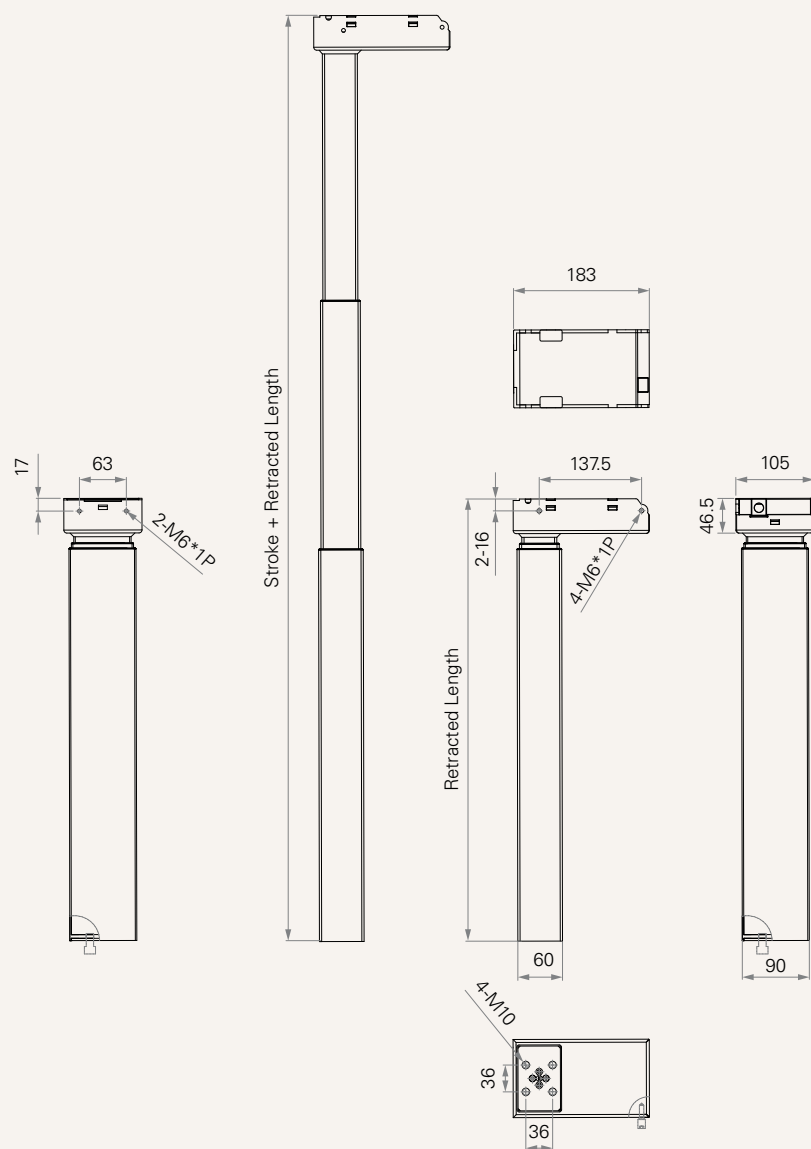
TC15F Spec	Load (N)	Constant Speed (mm/s) with TC15F
400W	1200	80

### Note

- <sup>4</sup> 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..

## Drawing

Standard Dimensions  
(mm)



### Stroke & Retracted Length

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

TFL31S

Version: 20241202-D

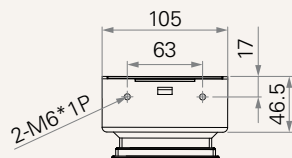
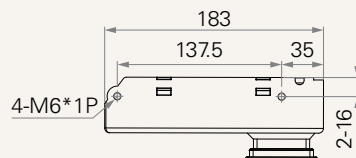
<b>Appearance of Motor House</b> <a href="#">See page 6</a>	C = TiMOTION standard		N = Style N	
<b>Voltage</b>	2 = 24V DC			
<b>Load and Speed</b>	<a href="#">See page 2</a>			
<b>Stroke &amp; Retracted Length (mm)</b>	<a href="#">See page 4</a>			
<b>Color</b>	1 = Black, RAL 9005	2 = White, RAL 9016	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</b> <a href="#">See page 6</a>	1 = M10, 36*36, TiMOTION standard		2 = M6, 36*36, TiMOTION standard	
<b>Bottom Plate Height</b>	1 = Standard		2 = Extended outer tube for shoe	
<b>Output Signals</b>	2 = 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

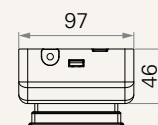
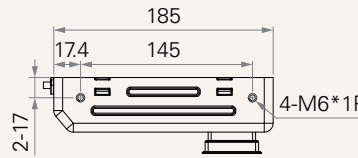
1 The TL is designed especially for push applications, not suitable for pull applications.

## Appearance of Motor House

C = TiMOTION standard

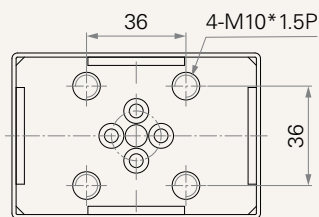


N = Style N

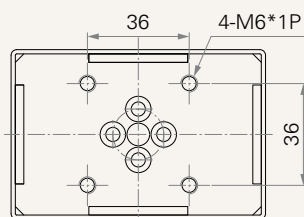


## Bottom Plate Type (mm)

1 = M10, 36\*36, TiMOTION standard

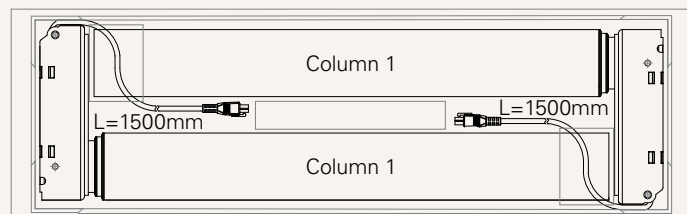


2 = M6, 36\*36, TiMOTION standard



## Package

Package of one TL part number

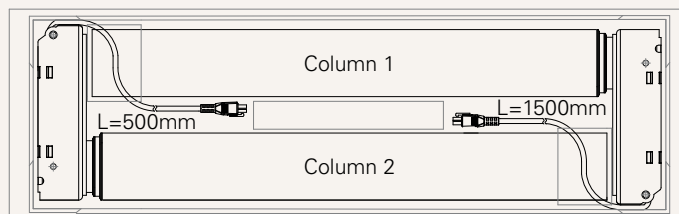


Column: 2pcs TL/box (Same PN& cable length)

Electronic control system: Without

Weight with package: 16KG

Package of two TL part numbers in pairs

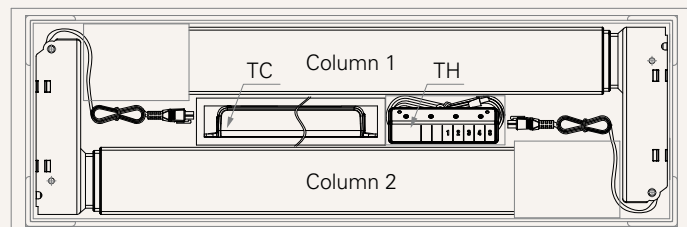


Column: 2pcs TL/box (Different PN, cable length, for pair use)

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.