

TFL12

series



Product Segments

- **Ergo Motion**

The TFL12 is TiMOTION's high-speed lifting column engineered for fast, fluid height adjustments in ergonomic workstations, desk, and industrial setups. With FastRise technology, the TFL12 delivers exceptional lifting speed while maintaining smooth, quiet, and reliable performance – ideal for fast-paced environments that demand both comfort and efficiency.

Built with an inverted three-stage rectangular profile, the TFL12 maximizes strong length while maintaining a compact footprint. For even greater range, an XL long-stroke version is available.

Designed to work seamless with TC series control boxes, the TFL12 supports synchronized movement and easy integration into fully customized ergonomic systems.

Features

- Load and speed per column¹²

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)
520mm (S)
700mm (XL)
- Stroke
650mm
660mm (M/S)
950mm (XL)
- Outer profile
80*60mm rectangular
- Stages
3-stage
- Output signals
Hall sensors
- Voltage
24V DC
- Color³
 RAL9005
  RAL9006
  RAL9016
  RAL9022
- Product weight
8.6kg /column
- With motor house

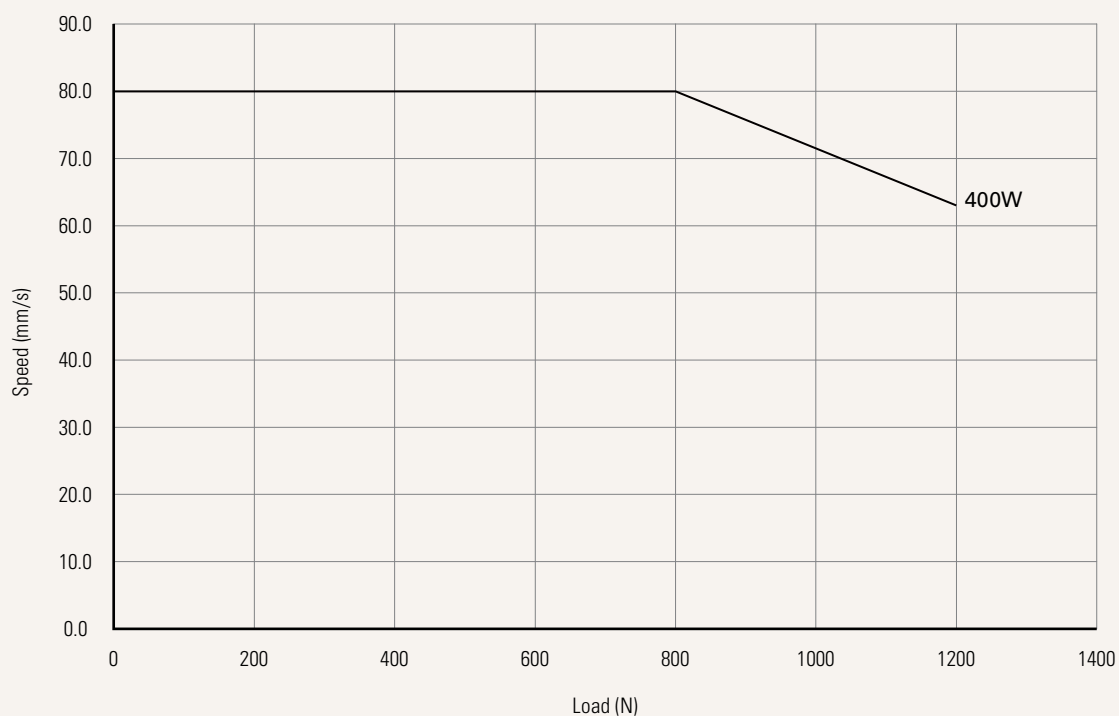
Note

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

- TFL12, two columns driven by TC15F



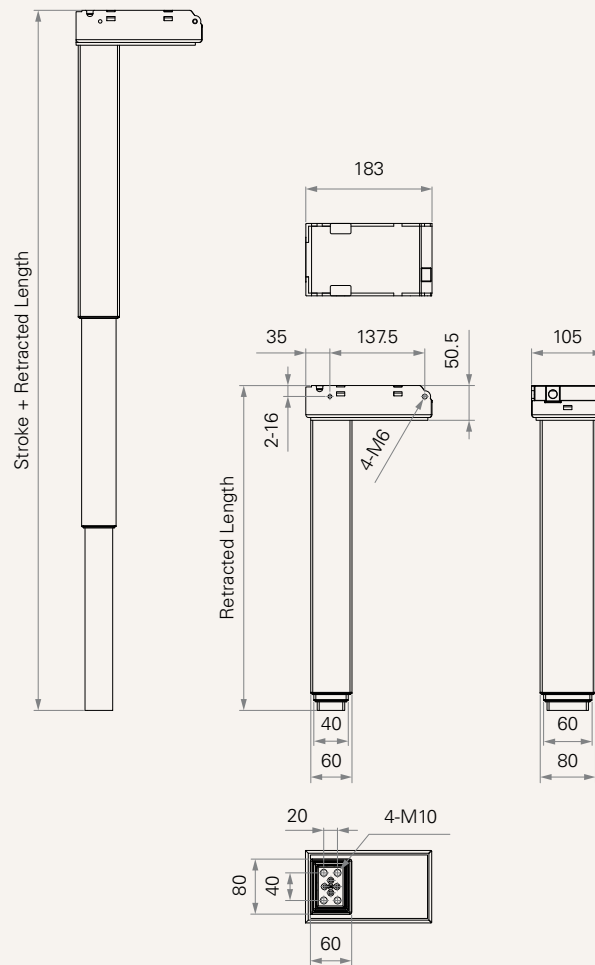
TC15F Spec	Load (N)	Constant Speed (mm/s) with TC15F
400W	1200	80

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
XL	950	700

Note

- 1 Only specific TEK could be with the shoes, please refer to TEK speccode.
- 2 Reverse structure with shoe need to raise new function proposal.

TFL12

Version: 20241217-A



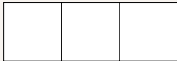
Appearance of Motor House C = TiMOTION standard
[See page 6](#)



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 0 = Without



Bottom Plate Type (mm) 1 = M10, 40*20, 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 F = Molex 8P, 90° plug, without anti-clip, for TC22/TC23
E = Molex 8P, 180° plug, standard



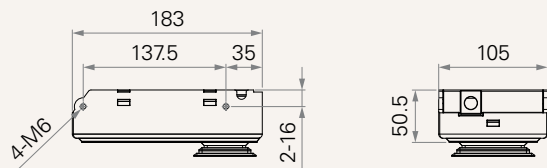
Cable Length (mm) 1 = Straight, 500 3 = Straight, 1000 4 = Straight, 1500

Note

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

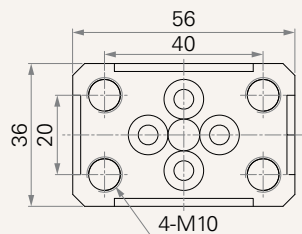
Appearance of Motor House (mm)

C = TiMOTION standard



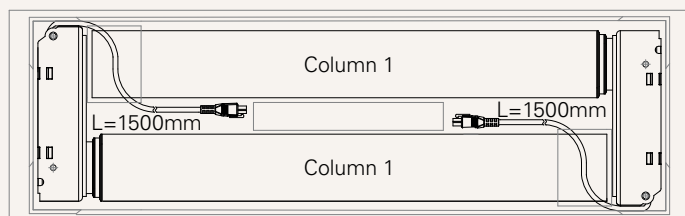
Bottom Plate Type (mm)

1 = M10, 40*20, TiMOTION standard



Package

Package of one TL part number

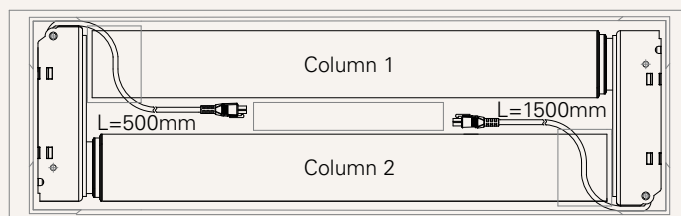


Column: 2pcs TL/box (Same PN& cable length)

Electronic control system: Without

Weight with package: 16KG

Package of two TL part numbers in pairs

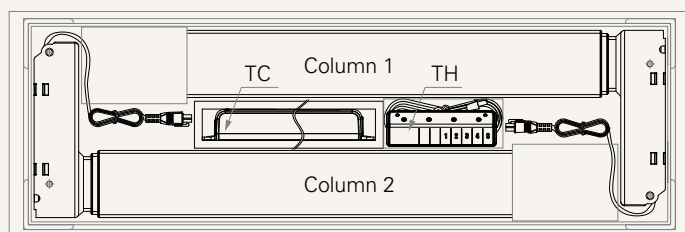


Column: 2pcs TL/box (Different PN, cable length, for pair use)

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.