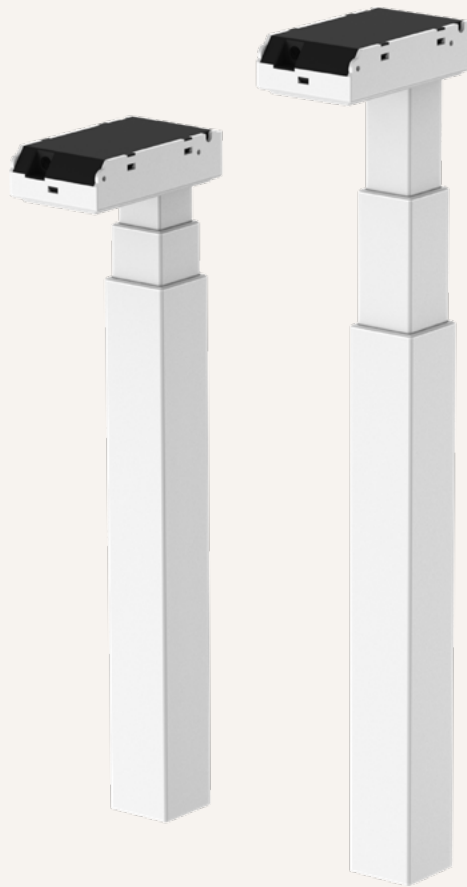


TL4H

series



Product Segments

• Ergo Motion

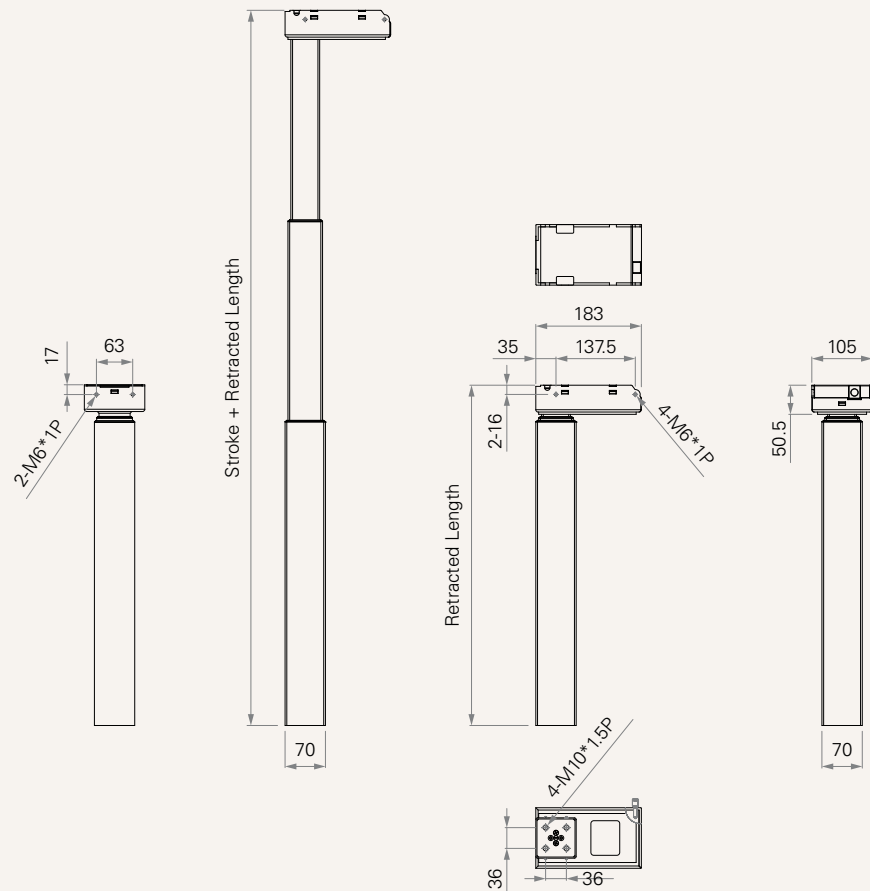
The TL4H is part of TiMOTION's heavy-duty lifting column series in our Ergo Motion product line. Each TL4H is designed to support up to a 120kg lift capacity while maintaining smooth and steady movement. This lifting column is ideal for consoles, workbenches, industrial workstations, heavy tabletops, and other applications requiring increased load capacity. Additionally, it is compatible with control boxes within the Ergo Motion and TEK series.

General Features

Max. load	1,200N (push)
Self-locking force	1,200N
Max. speed at max. load	19mm/s
Max. speed at no load	23mm/s
Retracted length	Standard outer tube: 590mm / 560mm (M) / 520mm (S) Extended outer tube: 610mm / 580mm (M) / 540mm (S)
Dimension of outer tube	70*70mm square
Stages	3-stage
Stroke	650mm / 660mm (M/S)
Output signals	Hall sensor * 2
Voltage	24V DC
Color	Black, white, grey, or special grey
Product Weight	9.2kg /column

Drawing

Standard Dimensions
(mm)



Load and Speed

CODE	Load (N)	Self Locking Force (N)	Typical Current (A)		Typical Speed (mm/s)	
	Push		No Load 29VDC	With Load 29VDC	No Load 29VDC	With Load 29VDC
Motor Speed (5200RPM)						
E	1200	1200	2.0	6.0	23.0	19.0

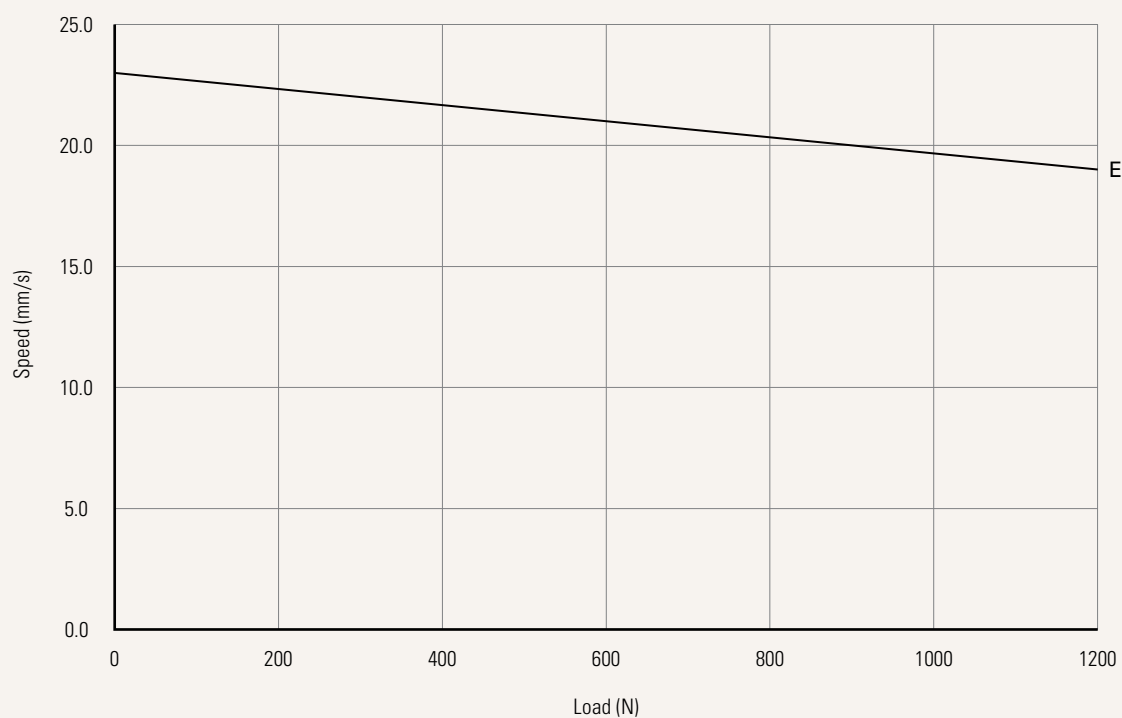
Note

- 1 Above self lock, typical current and typical speed performance are tested with Timotion control boxes.
- 2 Parameters above are from tested average, please refer to approval drawing for final value.

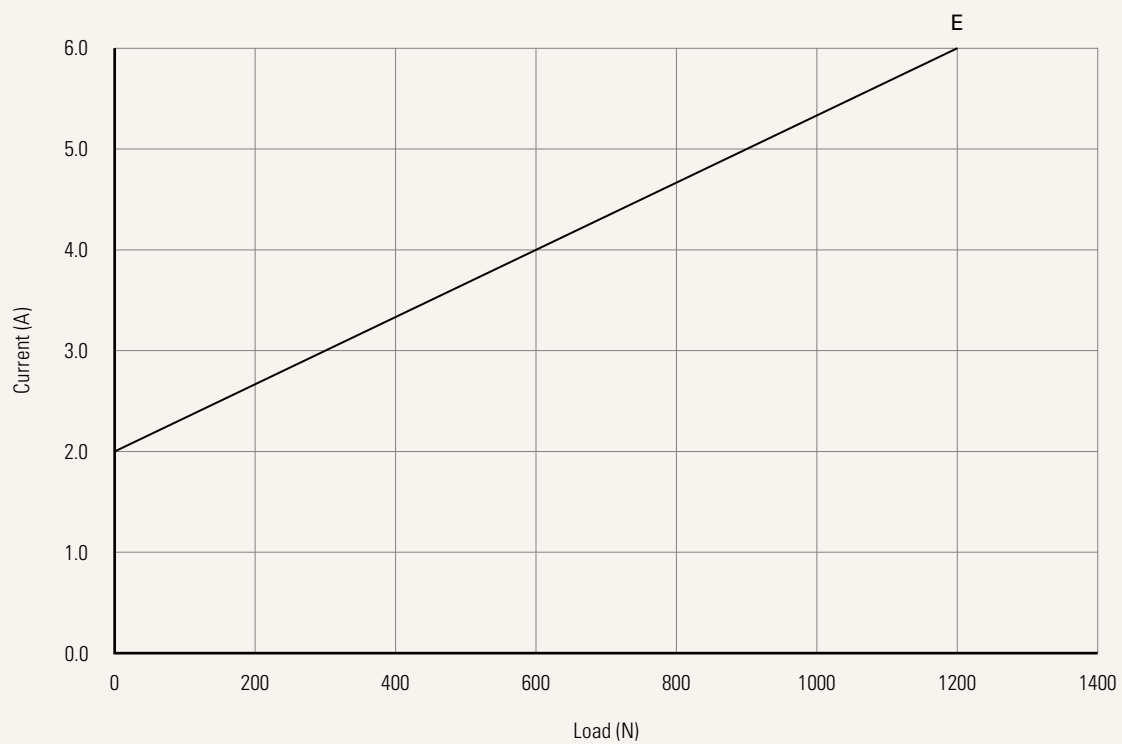
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load

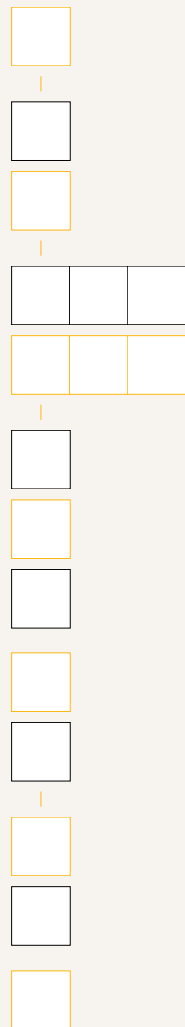


Current vs. Load



TL4H

Version: 20260129-B



Appearance of Motor House	C = TiMOTION standard			
Voltage	2 = 24V DC			
Load and Speed	See page 2			
Stroke & Retracted Length (mm)	See page 5			
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 5	0 = Without	L = Left, Standard bracket	R = Right, Standard bracket	
Buttom Plate Type	1 = M10			
Buttom Plate Height	1 = Standard			
Output Signals	2 = Hall sensor * 2			
Connector See page 5	1 = DIN 6P, 90°plug E = Molex 8P, 180°plug, standard		F = Molex 8P, 90°plug, without anti-clip, for TC22/TC23	
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.

Stroke & Retracted Length (mm)

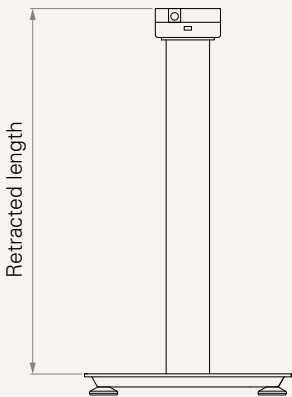
Foot Assembly	Stroke & Retracted Length		
	Standard	M	S
Standard, for Foot (Excluding Foot)	650 / 590	660 / 560	660 / 520
Extended Outer Tube for Shoe (Excluding Shoe)	650 / 610	660 / 580	660 / 540

Note

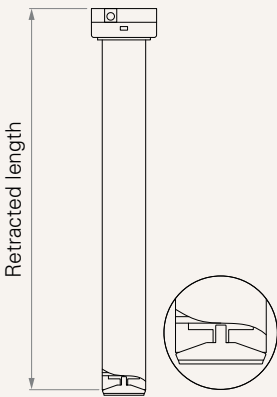
1 Only specific TEK could be with the shoes, please refer to TEK speccode

Foot Assembly

Standard, for foot (excluding foot)



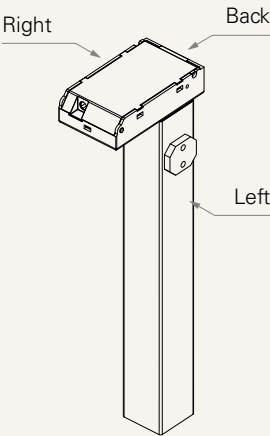
Extended outer tube for shoe (excluding shoe)



Bracket

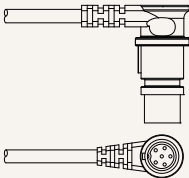
- Standard

Direction

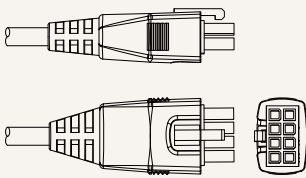


Connector

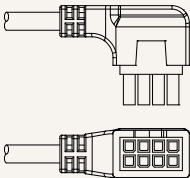
1 = DIN 6P, 90° plug



E = Molex 8P, 180° plug, standard



F = Molex 8P, 90° plug, without anti-clip, for TC22 / TC23



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.