

TL12H

series



Product Segments

• Ergo Motion

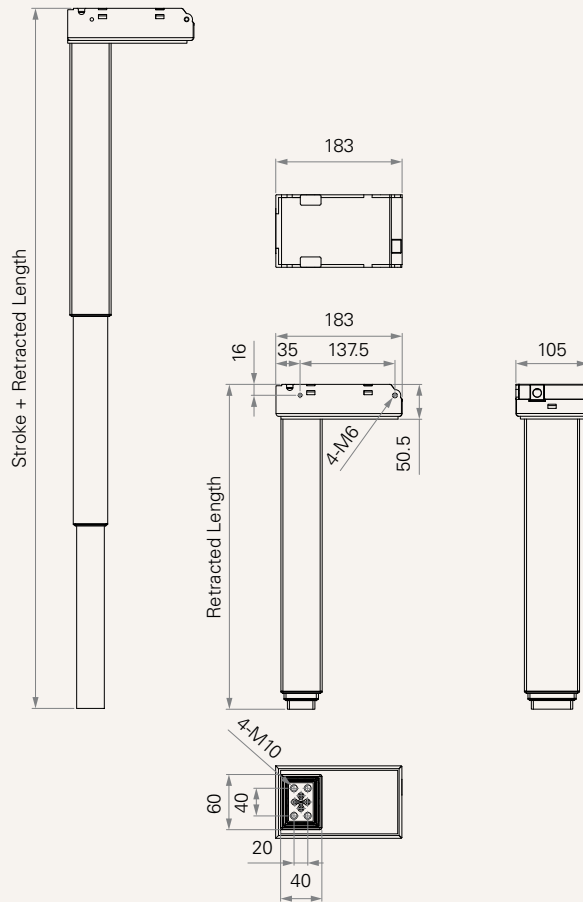
TiMOTION's TL12H is one of the heavy-duty lifting columns of our Ergo Motion product line. With a 3-stage, upside-down rectangular profile, each TL12H elevates up to 120kg in a smooth and steady movement. This lifting column is suitable for consoles, workbenches, industrial workstations, heavy tabletops, and other heavy loading applications. It is also compatible with the control box for our 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	590 / 700 (XL)mm
Dimension of outer tube	80*60mm, rectangular
Stages	3-stage, upside down
Stroke	650 / 950 (XL)mm
Output signals	Hall sensors
Voltage	24V DC, 24V DC (UL)
Color	Black, white, grey, or special colors
With motor house	

Drawing

Standard Dimensions
(mm)



Load and Speed

CODE	Load (N)	Self Locking Force (N)	Typical Current (A)		Typical Speed (mm/s)	
	Push		No Load 29V DC	With Load 29V DC	No Load 29V DC	With Load 29V DC
Motor Speed (5200RPM)						
E	1200	1200	2.8	6.0	23.0	19.0

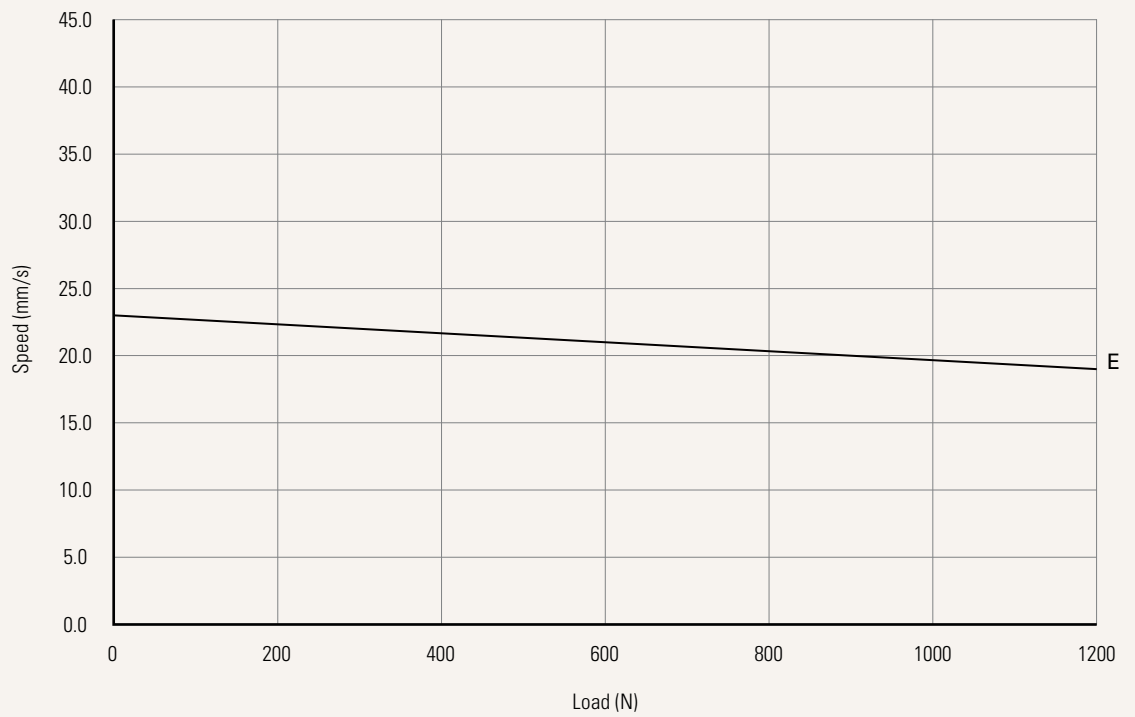
Note

- 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.

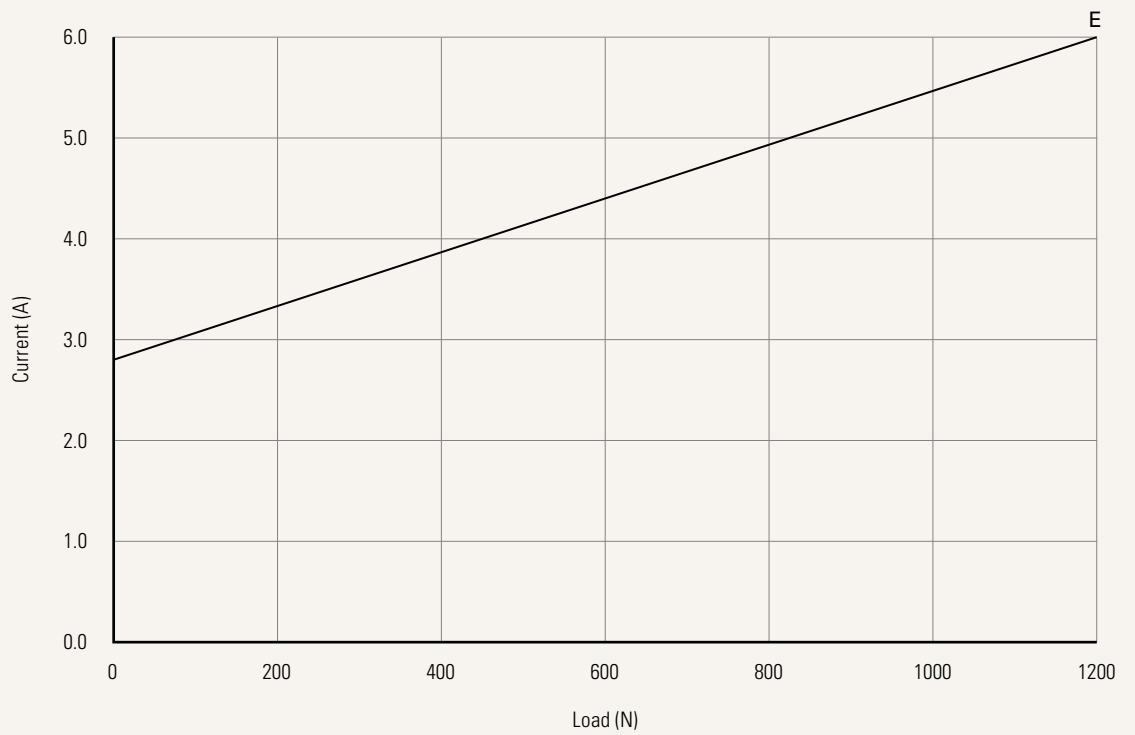
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



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	0 = Without			
Bottom Plate Type	1 = M10			
Bottom 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)

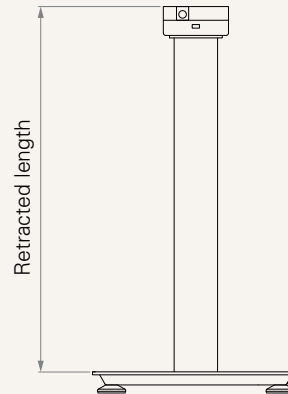
Foot Assembly	Stroke & Retracted Length	
	Standard	XL
Standard, for Foot (Excluding Foot)	650 / 590	950 / 700

Note

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

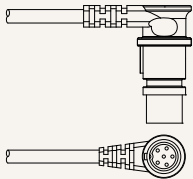
Foot Assembly

Standard, for foot (excluding foot)

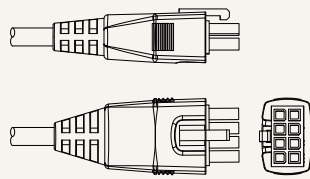


Connector

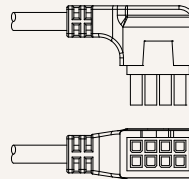
1 = DIN 6P, 90° plug



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.