

TL9K

series



Product Segments

• Ergo Motion

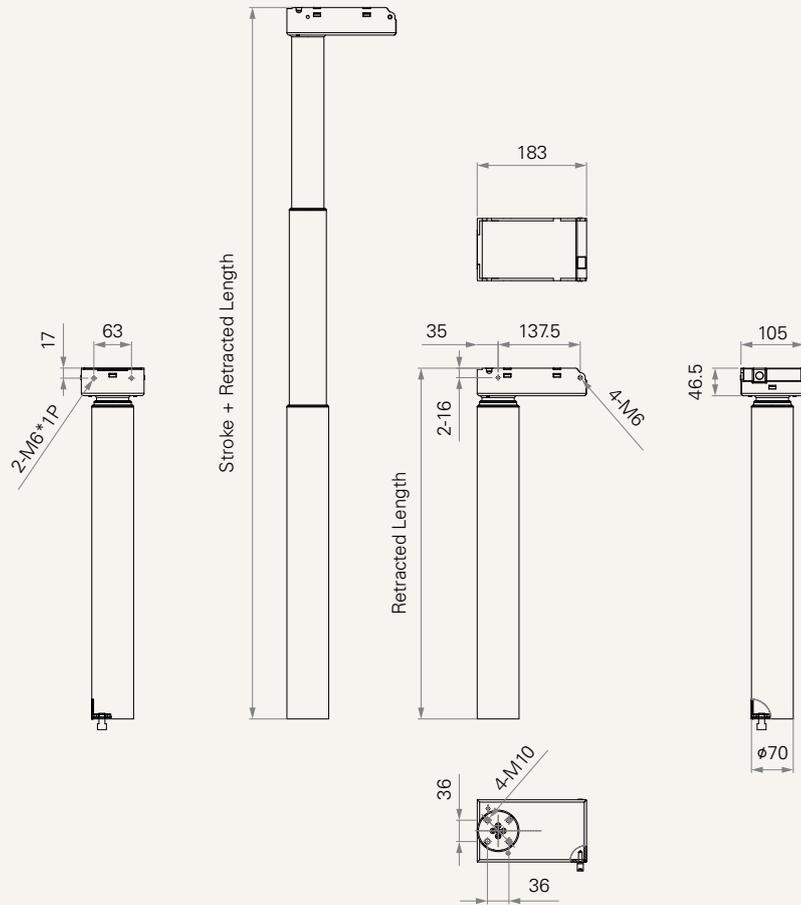
TiMOTION's TL9K series is a high-value lifting column specifically designed for ergonomic desks, work tables, and other height adjustable systems. Work surfaces adapt quietly and smoothly with synchronous movement using multiple TL series lifting columns with compatible TC series Control Boxes and TH/TDH series controls. All Ergo Motion TC series control boxes have a less than 0.1W standby power option that reduces power consumption. Our wide range of columns offers solutions to satisfy customers' working environment project requirements. The TL9K has a 3-stage round outer tube, telescopes with a narrow-top, and a wide-bottom appearance.

General Features

Max. load	600N (push)
Max. speed at max. load	32mm/s
Max. speed at no load	45mm/s
Retracted length	590 / 560 (M) mm
Dimension of outer tube	3-stage, Ø70mm, round
Stroke	650 / 660 (M) mm

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
D	600	600	2.5	6.0	45.0	32.0

Motor Speed (5200RPM)

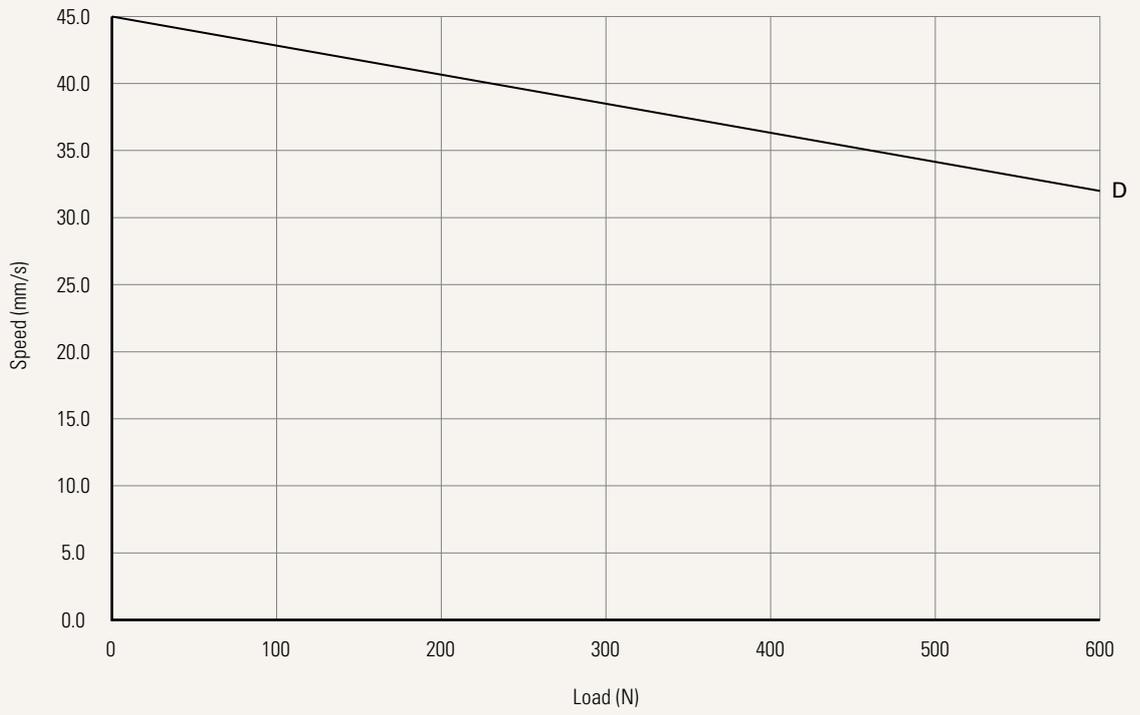
Note

- Above self lock, typical current and typical speed performance are tested with Timotion control boxes.
- Please refer to the approved drawing for the final authentic value.

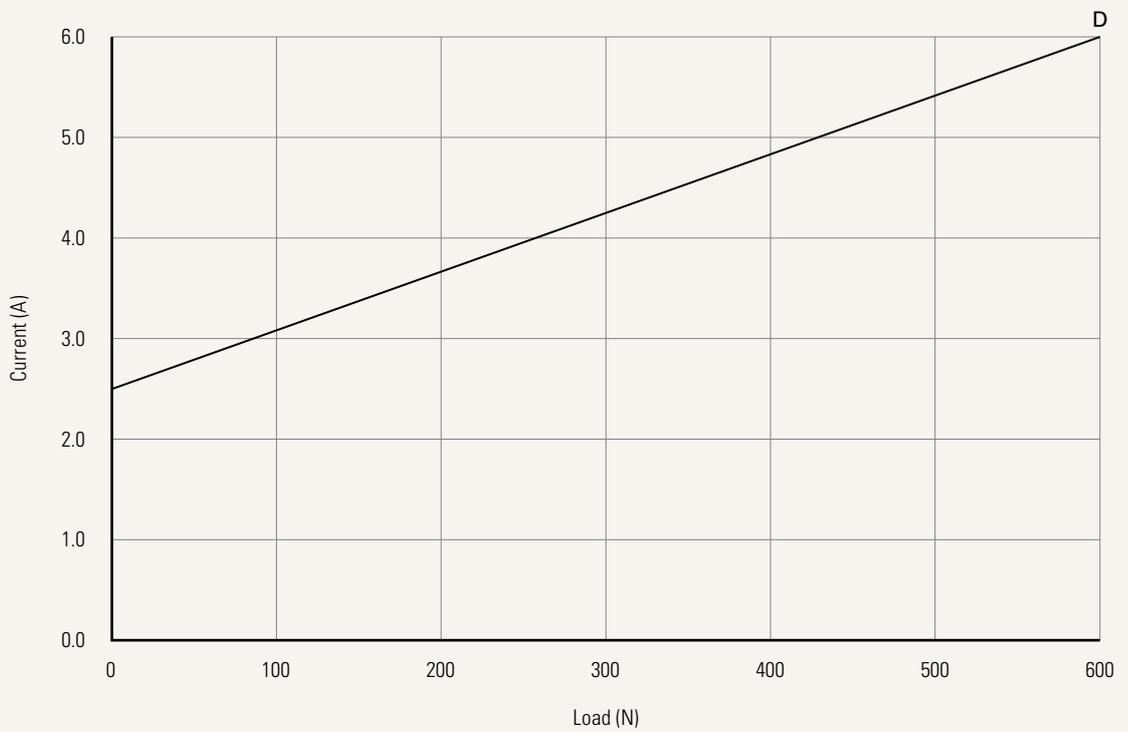
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



Appearance of Tubes	C = Without wiper fixing holes at sides		
Voltage	2 = 24V DC		
Load and Speed	See page 2		
Stroke & Retracted Length	See page 5		
Color	1 = Black, RAL 9005, Black wiper 2 = Grey, RAL 9006, Black wiper 3 = White, RAL 9016, Black wiper 4 = Special grey, RAL 9022, Black wiper 6 = Grey, RAL 9006, Grey wiper	7 = White, RAL 9016, White wiper 8 = Special grey, RAL 9022, Grey wiper B = Matte black, RAL 7021, Black wiper C = Graphite grey, RAL7024, Black wiper D = Matte black, RAL 7021, Matte Black wiper	
Motor Housing Step	0 = With	1 = Without	
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
Bracket	0 = Without		

Note

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

Stroke & Retracted Length (mm)

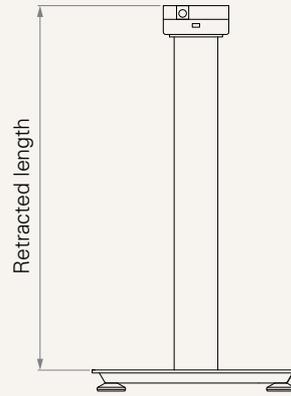
Foot Assembly	Stroke & Retracted Length	
	Standard	M
Standard, for Foot (Excluding Foot)	650 / 590	660 / 560
Extended Outer Tube for Shoe (Excluding Shoe)	650 / 610	660 / 580

Note

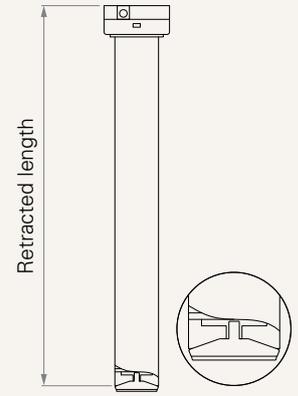
1 Only specific TEK could be with the shoes, please refer to TEK speccode

Foot Assembly

Standard, for foot (excluding foot)

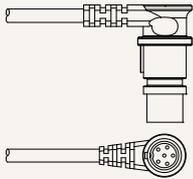


Extended outer tube for shoe (excluding shoe)

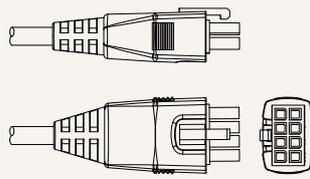


Connector

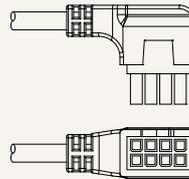
1 = DIN 6P, 90° plug



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.