TL7

series

Product Segments

• Ergo Motion

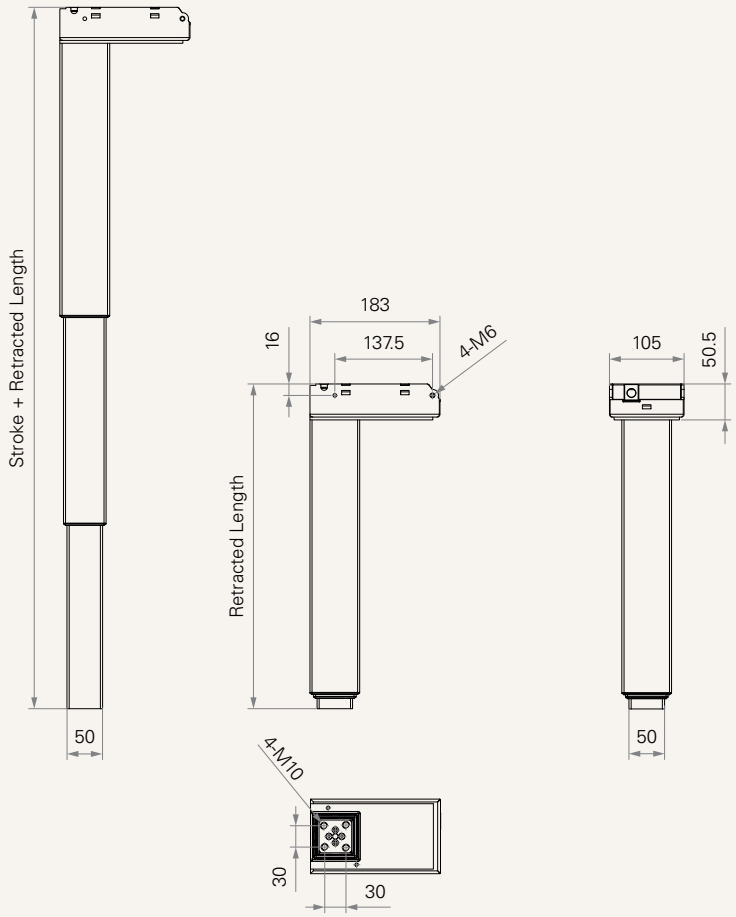
TiMOTION's TL7 series lifting columns are specifically designed for use in ergonomic desks and work tables. Using multiple TL series lifting columns with compatible TC series Control Boxes and TH/TDH series controls, work surfaces can be controlled quietly and smoothly with synchronous movement. All Ergo Motion TC series control boxes have a less than 0.1W standby power option that reduces power consumption. Our wide range of columns offer customers the solutions they require to satisfy their working environment project requirements. The TL7 has a three stage telescopic outer tube that is designed for a narrow-bottom, wide-top square appearance.

General Features

Max. load	800N (push)
Self-locking force	800N
Max. speed at max. load	33mm/s
Max. speed at no load	58mm/s
Retracted length	590 / 560 (M) mm
Dimension of outer tube	70*70mm square
Stages	3-stage, upside down
Stroke	650 / 660 (M) mm
Output signals	Hall sensor*2
Voltage	24V DC
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 32V DC	With Load 24V DC	No Load 32V DC	With Load 24V DC
Motor Speed (5200RPM)						
C	800	800	2.8	6.0	58.0	33.0

Note

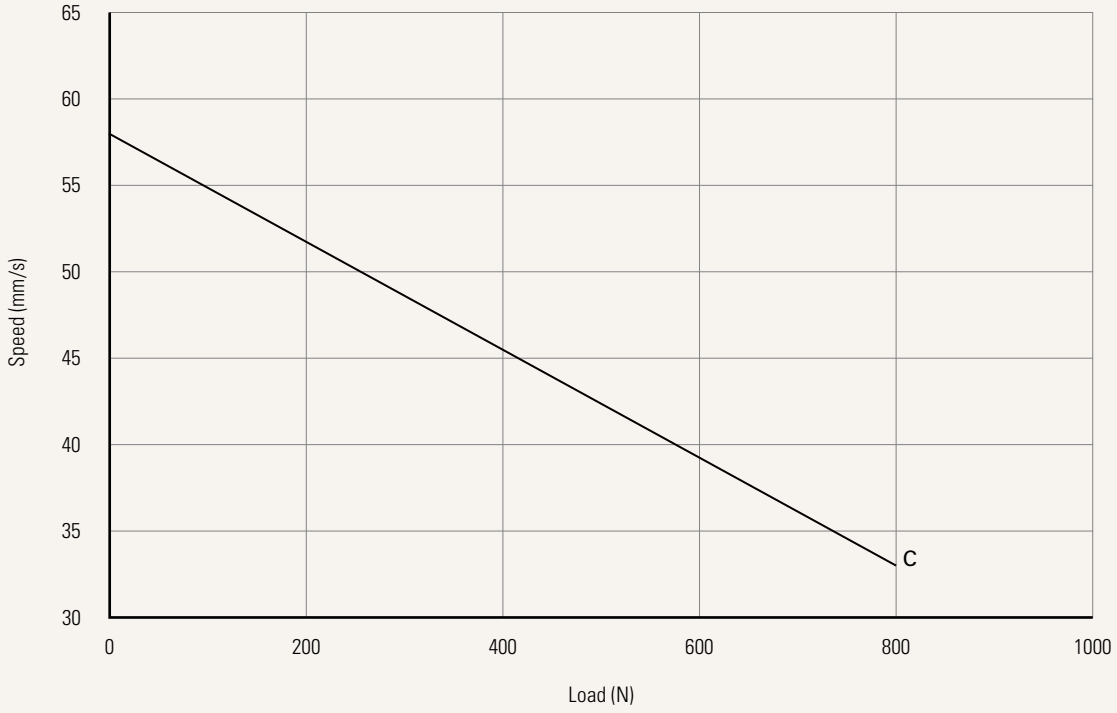
1 This self-locking force level is reached only when a short circuit is applied on the terminals of the motor. All the TiMOTION control boxes have this feature built-in.

2 The numbers above are based on the tested average, please refer to the approval drawing for the final value.

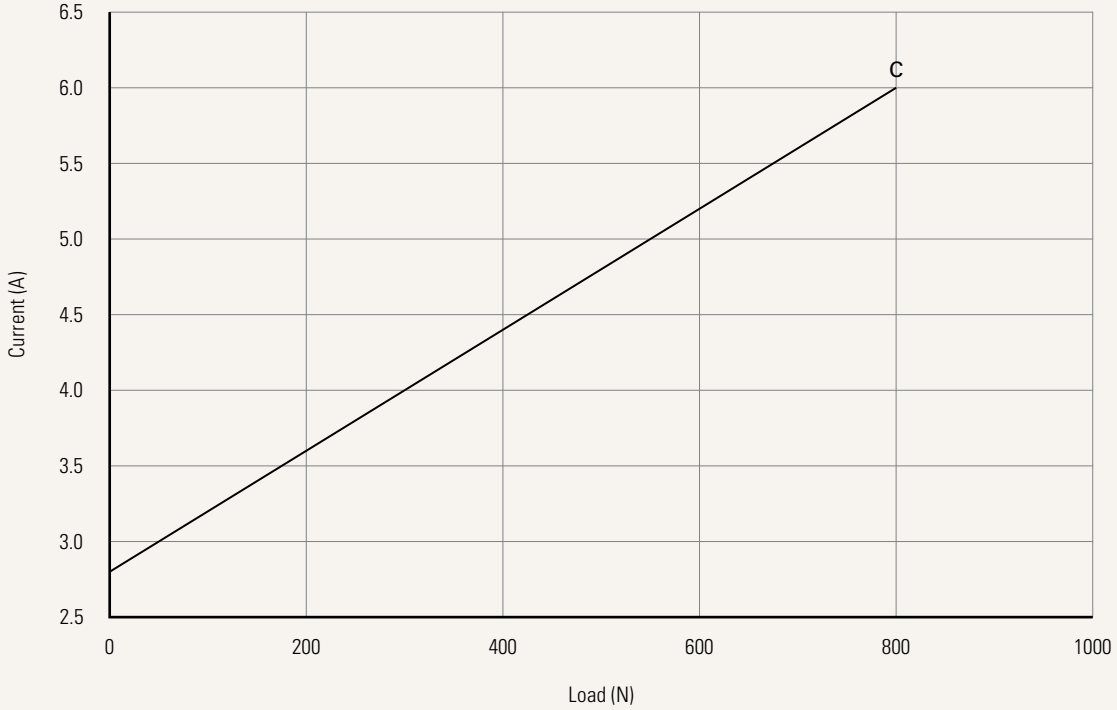
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



Note

1 The performance data in the curve charts shows theoretical value.

TL7 Ordering Key

TiMOTION

TL7

Version: 20260123-G

Appearance of Tubes	B = With wiper fixing holes at sides		C = Without wiper fixing holes at sides
See page 5			
Voltage	2 = 24V DC		
Load and Speed	See page 2		
Stroke & Retracted Length (mm)	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		
Plug	1 = DIN 6P, 90° plug		E = Molex 8P, plug, standard
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500
Bracket	0 = Without		

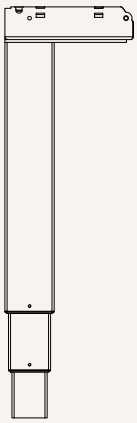
Note

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

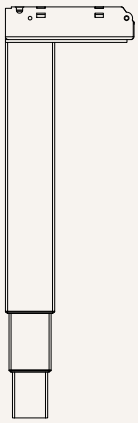
TL7 Ordering Key Appendix

Appearance of Tubes

B = With wiper fixing holes at sides



C = Without wiper fixing holes at sides

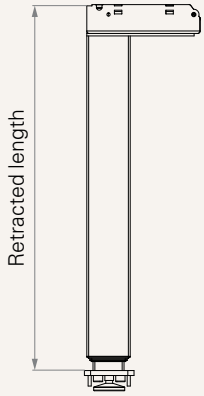


Stroke & Retracted Length (mm)

Foot Assembly	Stroke & Retracted Length	
	Standard	M
Standard	650 / 590	660 / 560

Foot Assembly

Standard



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.