

TL25

series



Product Segments

- **Comfort Motion**
- **Ergo Motion**

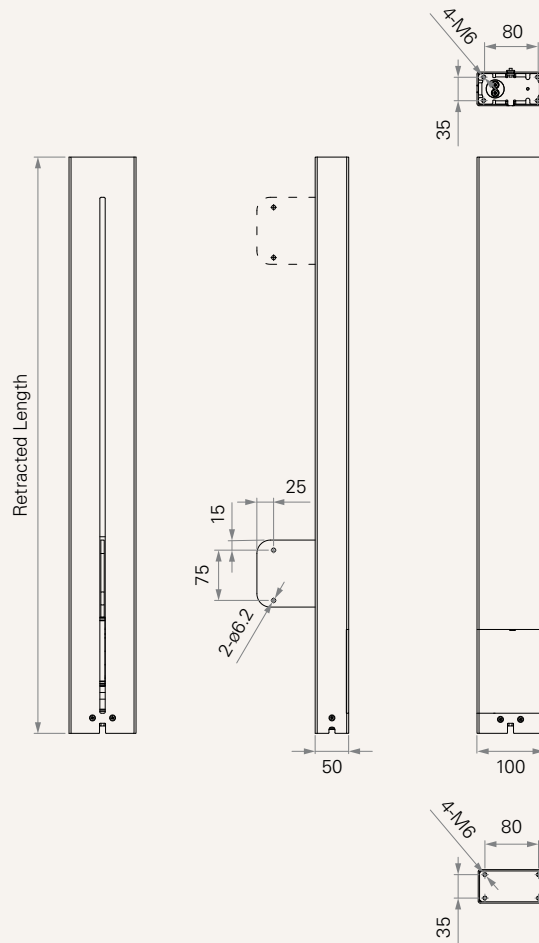
TL25 is a new concept of lifting mechanism. It is designed to be embedded in the panels or walls and lift up/down the table top. With this solution, there are no visible heavy steel columns or feet that normally come with the height adjustable desk. TL25 is an ideal solution for designers who would like to achieve both aesthetic and ergonomic feature for their office desks.

General Features

Max. load	1,500N (push)
Max. dynamic bending moment	130.5Nm
Max. speed at max. load	12mm/s
Max. speed at no load	92mm/s
Retracted length	Stroke+360mm
Outer profile	50*100mm rectangular
Stroke	100~500mm
Output signals	Hall sensor * 2
Voltage	24V DC
Color	Black, white, grey, or special colors
Embedded in the panels or walls	

Drawing

Standard Dimensions
(mm)



Load and Speed

CODE	Load (N)	Self Locking Force (N)	Current (A) with 24V DC		Speed (mm/s) with 24V DC	
	Push		No Load	With Load	No Load	With Load
Motor Speed (5200RPM)						
C	500	500	2.5	6.0	60.0	46.0
D	200	200	3.0	5.0	92.0	76.0
E	1000	1000	2.4	7.0	40.0	25.0
F	1500	1500	2.0	5.0	16.0	12.0

Note

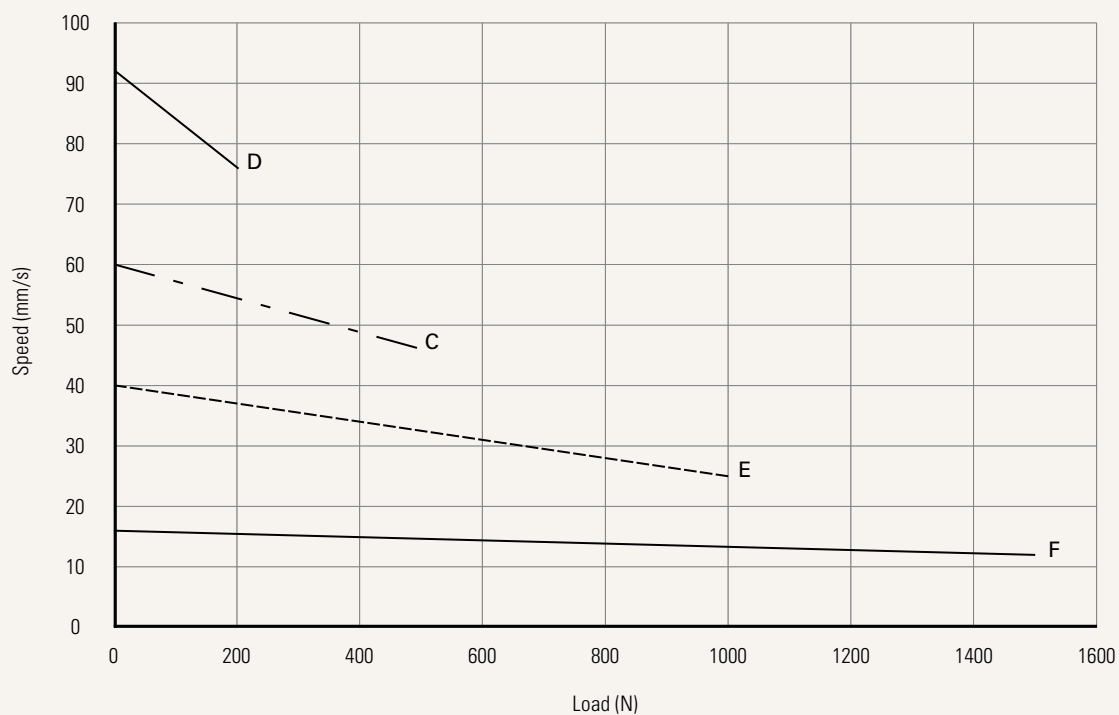
- Above self lock performance needs working with TiMOTION control system.
- Parameters above are from tested average, please refer to approval drawing for final value.
- Dynamic bending moment (Nm)

CODE	Load (N)	Dynamic bending moment (Nm)
	Push	
C	500	43.5
D	200	17.4
E	1000	87
F	1500	130.5

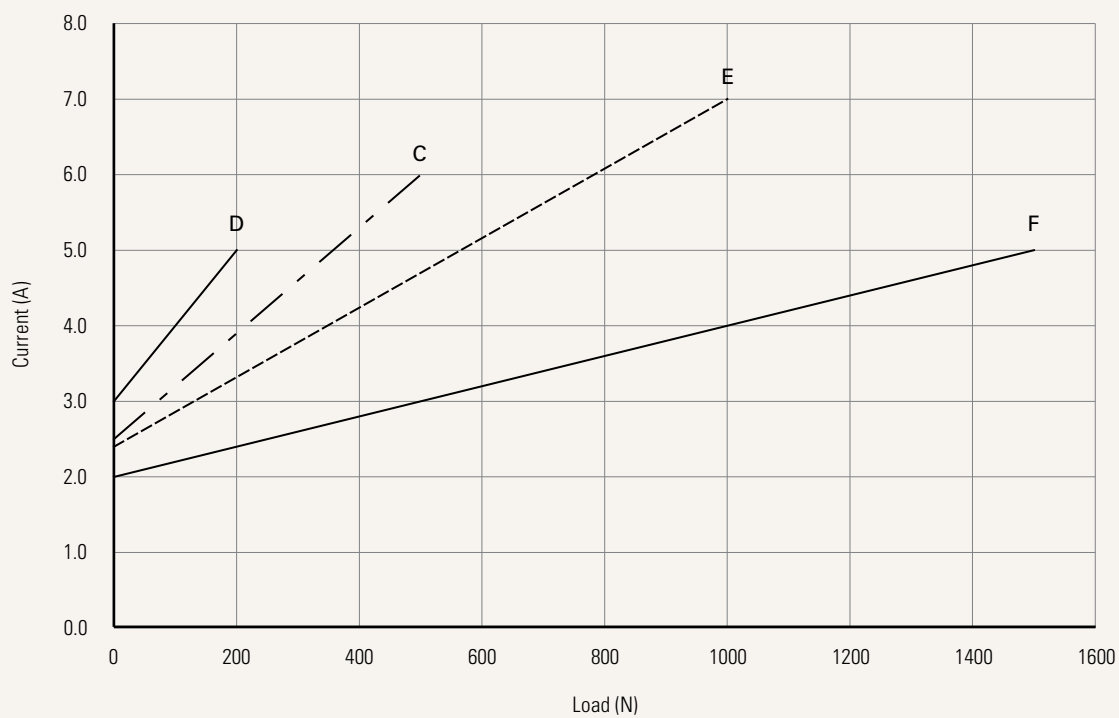
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



Note

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

TL25 Ordering Key

TL25

Version: 20260303-K

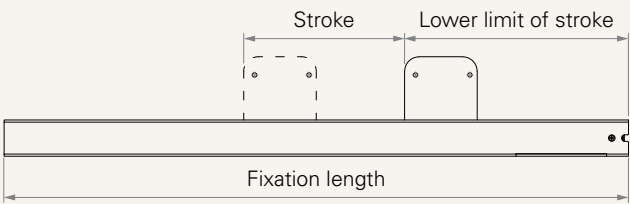
	Voltage	2 = 24VDC			
	Load and Speed	See page 2			
	Stroke (mm)	See page 5			
	Retracted Length (mm)	See page 5			
	Fixation Bracket Alignment	0 = Without fixation bracket		2 = Wall mounted, back	
	Fixation Bracket Configuration (mm)	0 = Without fixation bracket		2 = Configuration 1, A:100, B:180	
	End Pipe (mm)	0 = Without		3 = StyleB two-pieces (Right), bracket Ø6.2 through hole	
	Bracket Type (mm)	1 = Bracket dimension: 87*100, 2 fixation hole, A: 25, B: 15, C: 75, D: Ø6.2 through hole			
		2 = Bracket dimension: 87*100, 2 fixation hole, A: 25, B: 15, C: 75, D: Ø8.2 through hole			
		3 = Bracket dimension: 87*100, 2 fixation hole, A: 25, B: 15, C: 75, D: M6 tapped hole			
	Color	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
	Output Signals	2 = Hall sensor * 2			
	Motor Connector	1 = DIN 6P, 90° plug		F = Molex 8P, 90° plug, without anti-clip, for TC22/TC23	
		E = Molex 8P, plug, standard		G = Molex 6P, 180° plug for TCH series	
	Motor Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	8 = Straight, 3500
	Integrated Hand Control Cable	0 = Without		1 = With	
	Hand Control Cable Socket (Connect with Hand Control)	0 = Without		1 = RJ 10P flat, for Ergo hand control	
	Hand Control Cable Plug (Connect with TC)	0 = Without		2 = RJ 10P flat, 90°, for TC22	
		1 = RJ 10P flat, 180°, for Ergo TC			
	Hand Control Cable Length (Connect with TC) (mm)	0 = Without	1 = Straight, 1000	2 = Straight, 1500	8 = Straight, 3500

Note

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

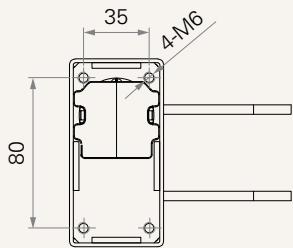
Stroke & Retracted Length (mm)

Standard	Stroke	Retracted Length	Lower Limit of Stroke
	100-500	S+360	290

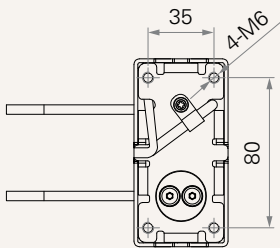


Fixation of Top and Bottom (mm)

Fixation of top

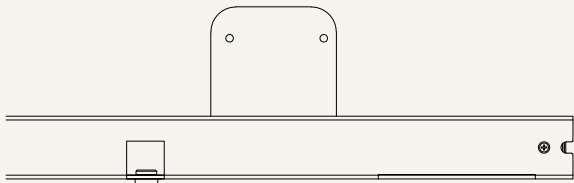


Fixation of bottom



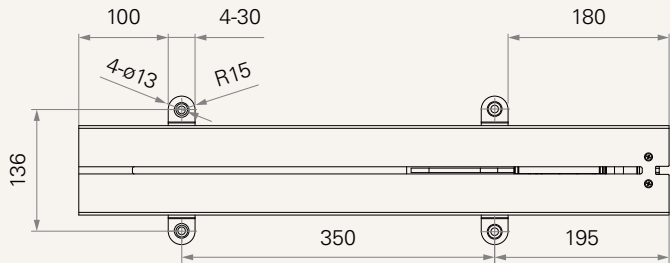
Fixation Bracket Alignment

2 = Wall mounted, back



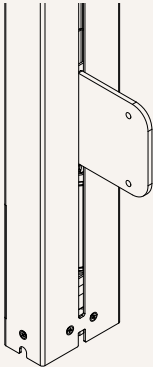
Fixation Bracket Configuration (mm)

2 = Configuration 1, A: 100, B: 180



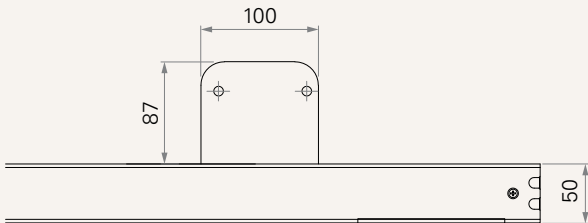
Bracket Type (mm)

Bracket

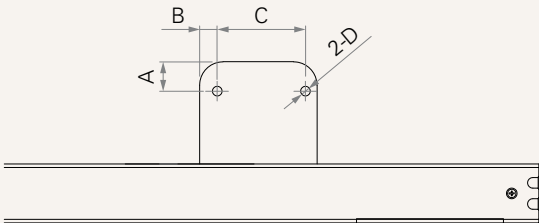


Bracket Type					
Option	Bracket Dimension	A	B	C	D
1	87*100	25	15	75	Ø6.2 through hole
2	87*100	25	15	75	Ø8.2 through hole
3	87*100	25	15	75	M6 tapped hole

Bracket Dimension



Fixation Hole Dimension



Note

1 The width is measured from the top of Bracket to the surface of outer tube.

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.