

# TA48

series



## Product Segments

### • Comfort Motion

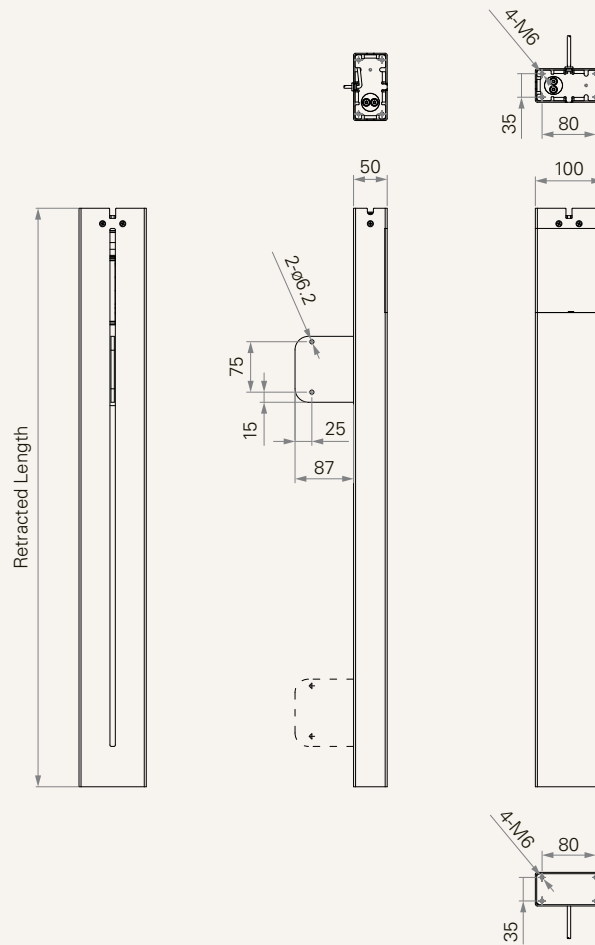
TA48 is a new lifting mechanism concept. It is designed to be embedded on the side panels or walls to lift up/down shelves for kitchen storage. With this solution, there is no visible steel mechanism; which allows for a clean and elegant design for furniture, such as kitchen cabinet, portable projection stands or side table. TA48 is ideal for furniture designers who like to achieve both aesthetic and ergonomic solutions for their projects.

#### General Features

Max. load	1500N (push)
Max. speed at max. load	15mm/s
Max. speed at no load	108mm/s
Retracted length	≥ Stroke + 360mm
Stroke	100~500mm
Output signals	Hall sensors
Voltage	24V DC
Color	Black, white, grey, or special grey
Operational temperature range	+5°C~+45°C
Embedded in the panels or walls	

**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
<b>Motor Speed (5200RPM)</b>						
<b>C</b>	500	500	2.8	6.0	75.0	55.0
<b>D</b>	200	200	3.0	5.0	108.0	96.0
<b>E</b>	1000	1000	2.0	7.0	52.0	40.0
<b>F</b>	1500	1500	2.0	5.0	20.0	15.0

**Note**

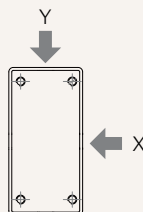
- Above self lock performance needs working with Timotion control system.
- Parameters above are from tested average, please refer to approval drawing for final value.

**Dynamic bending moment (Nm) - X direction**

Stroke (mm)	S + 360
100-500	85N

**Note**

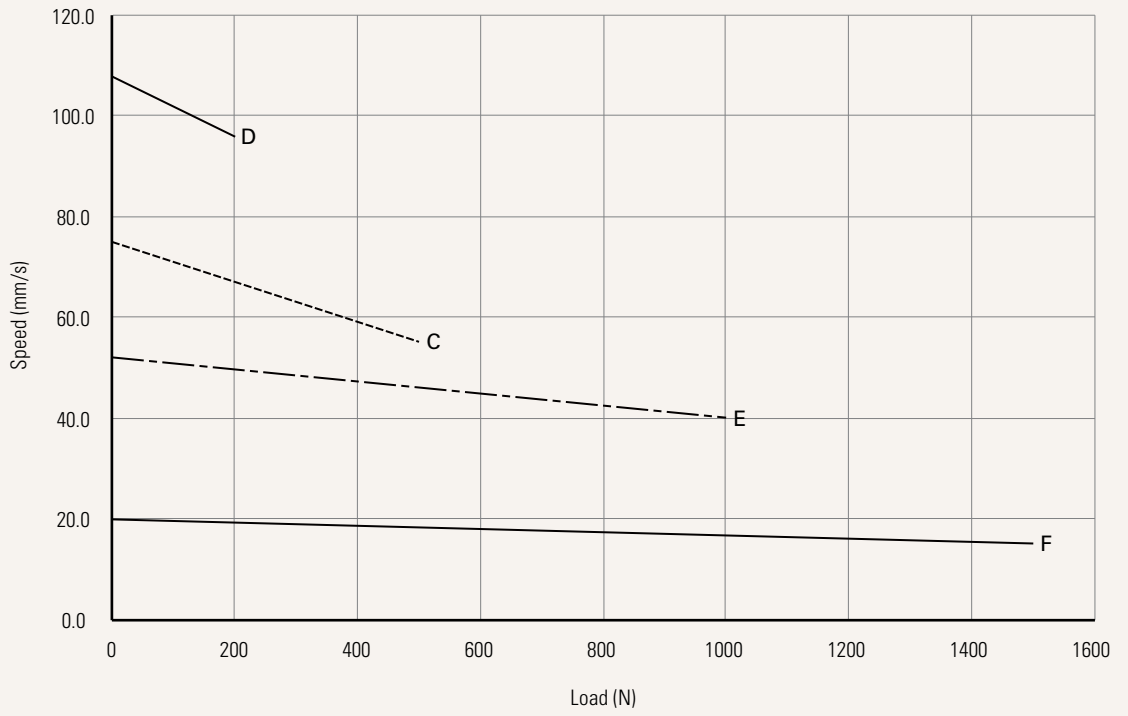
- Bending moment Y direction = X
- Static bending moment = dynamic\*2



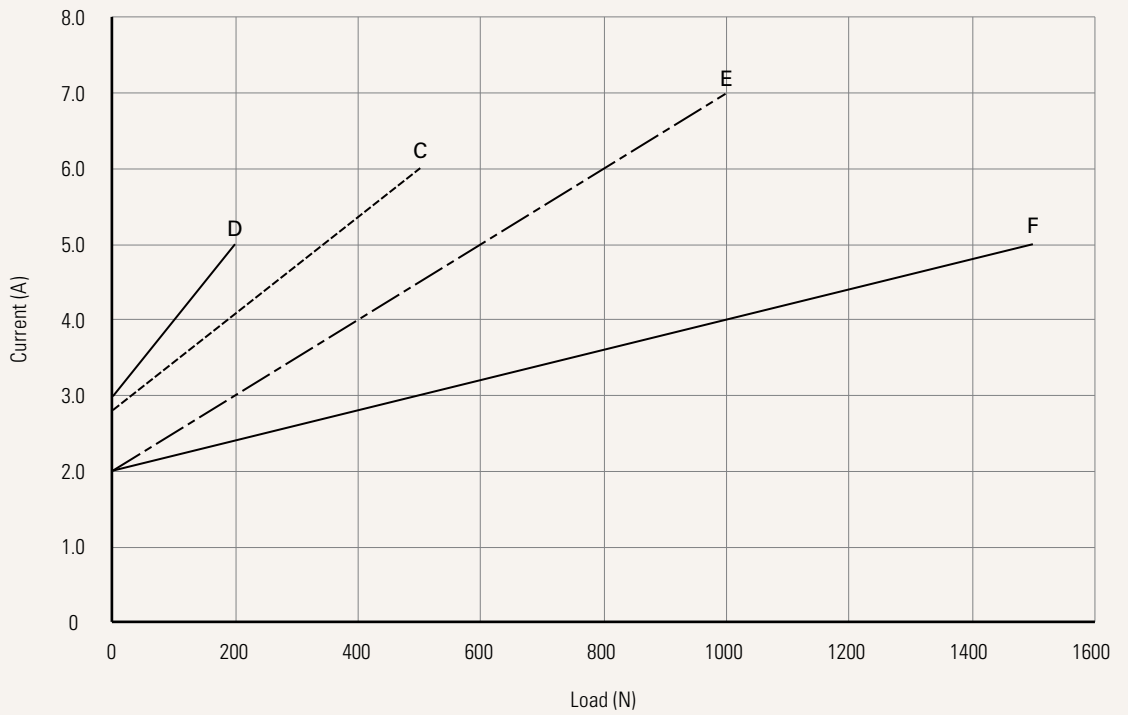
**Performance Data (24V DC Motor)**

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



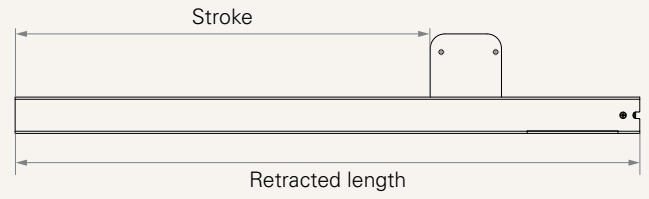
<b>Voltage</b>	2 = 24V DC			
<b>Load and Speed</b>	<a href="#">See page 2</a>			
<b>Stroke Length (mm)</b>	<a href="#">See page 5</a>			
<b>Retracted Length (mm)</b>	<a href="#">See page 5</a>			
<b>Outer Tube Fixture</b> <a href="#">See page 5</a>	1 = Fixture (top and bottom)		2 = Wall mounted (like TVL3)	
<b>End Pipe (mm)</b>	0 = Without			
<b>Bracket Type (mm)</b> <a href="#">See page 5</a>	1 = Standard			
<b>Color</b>	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
<b>Output Signals</b>	2 = Hall sensor*2			
<b>Motor Connector</b> <a href="#">See page 6</a>	1 = DIN 6P, 90°plug E = Molex 8P, plug, standard		F = Molex 8P, 90°plug, without anti-clip, for TC22/TC23	
<b>Motor Cable Length (mm)</b>	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	
<b>Integrated Hand Control Cable</b>	0 = Without	1 = With		
<b>Hand Control Cable Socket (Connect with Hand Control)</b>	0 = Without		1 = RJ 10P flat, for Ergo hand control	
<b>Hand Control Cable Plug (Connect with TC)</b>	0 = Without 1 = RJ 10P flat, 180°, for Ergo TC		2 = RJ 10P flat, 90°, for TC22	
<b>Hand Control Cable Length (Connect with TC)</b>	0 = Without	1 = Straight, 1000	2 = Straight, 1500	

## Stroke & Retracted Length (mm)

	Stroke	Retracted Length
<b>Standard</b>	100 - 500	S + 360

### Note

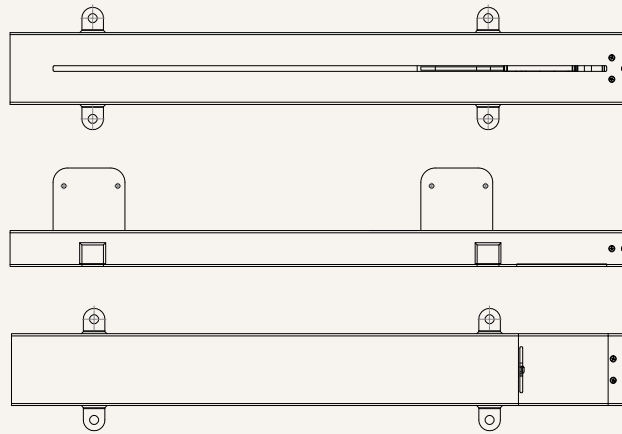
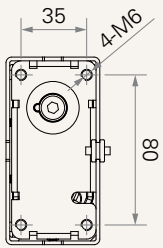
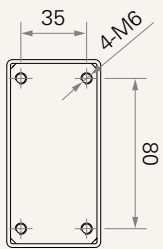
1 If the stroke is more than 500mm, it would require to discuss with engineers for feasibility.



## Outer Tube Fixture

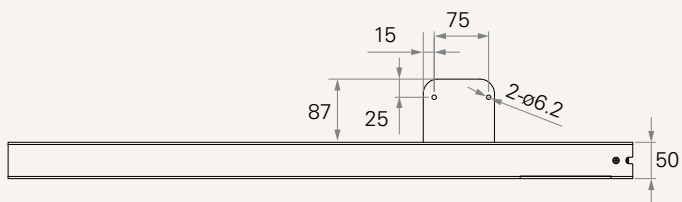
1 = Fixture (top and bottom)

2 = Wall mounted (like TVL3)



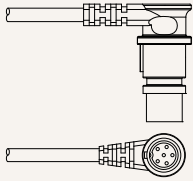
## Bracket Type (mm)

1 = Standard

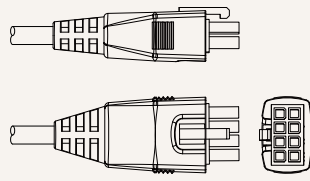


## Motor Connector

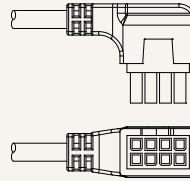
1 = DIN 6P, 90°plug



E = Molex 8P, plug, standard



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



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