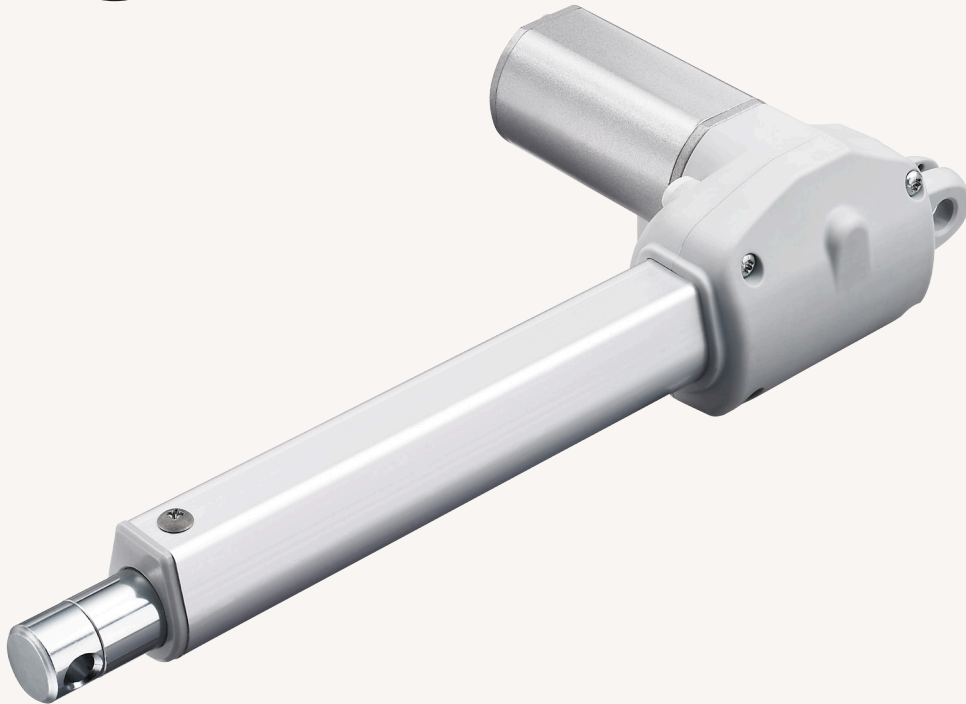


TA9

series



Product Segments

- **Comfort Motion**

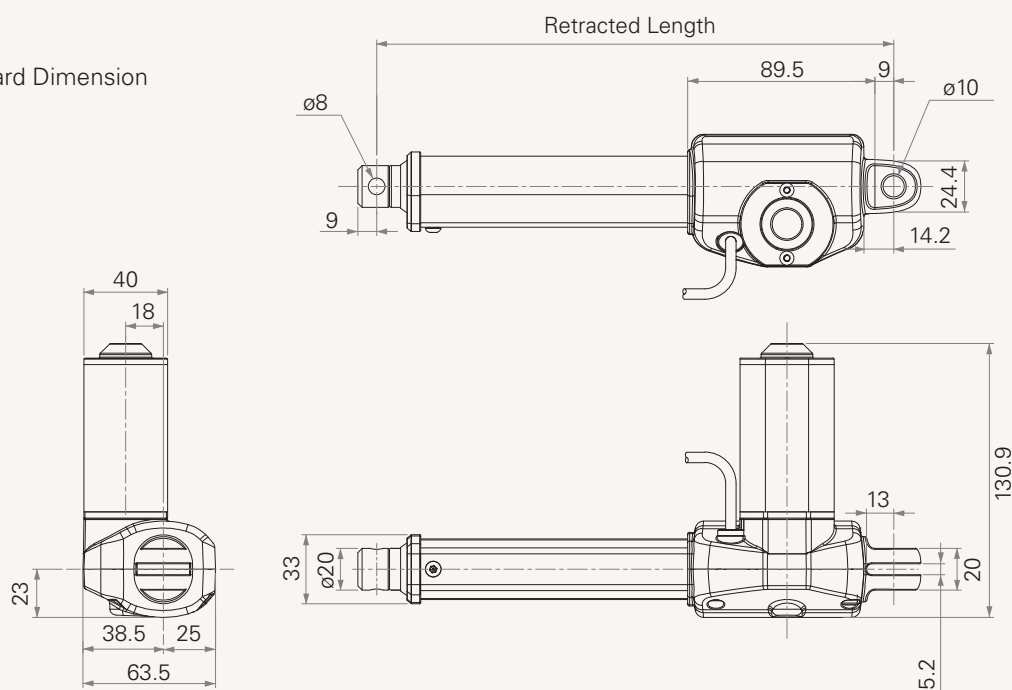
TiMOTION's TA9 series linear actuator was designed as an economical, compact solution specifically for the furniture industry where force cannot be sacrificed. This linear actuator is designed with a custom gear box, molded with a specially formulated plastic material which allows the TA9 to support load ratings up to 2500N. An EMC certification has been attained for this series, which is also available with optional IP54 or IP66 protection.

General Features

Voltage of motor	12V DC or 24V DC
Maximum load	2,500N in push
Maximum load	1,000N in pull
Maximum speed at no load	58.0mm/s
Maximum speed at full load	24.0mm/s
Minimum installation dimension	stroke+140mm
Color	black or grey
Protection class	IP54 or IP66
Certificate	EMC
Options	Hall sensor(s)

Drawing

Standard Dimension
(mm)



Load and Speed

CODE	Rated Load		Self Locking N (PUSH)	Typical Current at Rated Load (A)	Typical Speed	
	PUSH N	PULL N			No Load (32V DC) mm/s	Rated Load (24V DC) mm/s
Motor Speed (4100RPM)						
A	2000	1000	2000	2.8	9.8	4.8
B	1500	1000	800	2.8	13.6	6.4
C	1000	1000	300	3.2	26.0	10.9
D	800	800	200	3.5	37.0	15.3
F	500	500	100	3.5	58.0	24.0
Motor Speed (3800RPM)						
G	2500	1000	2500	2.8	9.5	5.0
H	2000	1000	1000	3.0	13.3	7.0
I	1500	1000	500	4.0	26.2	11.0
K	1000	1000	250	4.0	36.5	16.0
L	700	700	150	4.0	57.0	24.0
Motor Speed (3300RPM)						
M	1500	1000	1500	1.8	8.0	4.0
N	1000	1000	800	1.8	11.2	5.9
O	500	500	300	1.4	21.6	11.3
P	400	400	200	1.4	30.0	15.7
Q	300	300	100	1.4	47.0	24.5
Motor Speed (2200RPM)						
V	2000	1000	2000	1.5	5.7	2.6
R	1500	1000	1000	1.5	8.2	3.7
S	1000	1000	500	1.5	15.4	6.0
T	700	500	250	1.3	22.8	10.0
U	500	300	150	1.3	36.0	16.0

Note

- 1 The left diagram shows the average speed and current figures (Variable $\pm 15\%$).
- 2 Speed would be the same if with 12V motor, but with double current consumption comparing 24V motor.
- 3 The self locking force above need to work with TiMOTION control system.

Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application.

Due to continuous development in order to improve our products, TiMOTION products are subject to frequent modifications and changes without prior notice.

TiMOTION reserves the right to discontinue the sale of any products displayed on its website or listed in its catalogue or other written materials drawn up by TiMOTION.

Additional Retracted Length

TA Series	Safety Stroke Limit (mm)	Additional Stroke (mm)	Additional Invalid Length (mm)
TA9	200	$0 < \text{additional stroke} \leq 50$	5

Note

- 1 Above stroke recommendation is based on safety stroke limit, for each additional 50mm stroke, it needs to add 5mm for the retracted length.

For example

- 1 If TA9's stroke is 201mm, the retracted length = 201mm+invalid length+5mm.
- 2 If TA9's stroke is 300mm, the retracted length = 300mm+invalid length+10mm.

TA9 Ordering Key

TA9

Version: 20141208-I

<input type="checkbox"/>	Voltage	1 = 12V	2 = 24V
<input type="checkbox"/>	Load and Speed	See appendix	
<input type="checkbox"/>	Stroke (mm)		
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>	Retracted Length (mm)	Stroke+140mm (For front attachment 1)	Stroke+153mm (For front attachment 3)
<input type="checkbox"/>		Note : before selecting retracted length, please refer to the additional retracted length chart	
<input type="checkbox"/>			
<input type="checkbox"/>	Rear Attachment	1 = Hole 8mm, slot 5mm	
<input type="checkbox"/>	Front Attachment	1 = Hole 8mm 3 = U clevis, slot 6mm, hole 8mm	A = Customized
<input type="checkbox"/>	Direction of Rear Attachment	1 = 0°	2 = 90°
<input type="checkbox"/>	Color	1 = Black	2 = Grey (Pantone 428C)
<input type="checkbox"/>	IP Protection	1 = Without	2 = IP54 3 = IP66
<input type="checkbox"/>	Special Functions for Spindle Sub-Assembly	0 = Without (standard)	2 = Standard push only
<input type="checkbox"/>	Functions for Limit Switches	1 = Two switches at the retracted/extended positions to cut current 2 = Two switches at the retracted/extended positions to cut current with the third one in between to send signal	3 = Two switches at the retracted/extended positions to send signal 4 = Two switches at the retracted/extended positions and the third one in between to send signal A = Customized
<input type="checkbox"/>	Output Signals	0 = Without	4 = One Hall sensor 5 = Two Hall sensors
<input type="checkbox"/>	Plug	1 = TiMOTION's standard 6pin plug	2 = Tinned leads A = Customized
<input type="checkbox"/>	Cable Length	1 = Straight, 500mm 2 = Straight, 750mm 3 = Straight, 1000mm	4 = Straight, 1250mm 5 = Straight, 1500mm 6 = Straight, 2000mm 7 = Coiled, 200mm 8 = Coiled, 400mm A = Customized