

# TA10

series



## Product Segments

- **Care Motion**

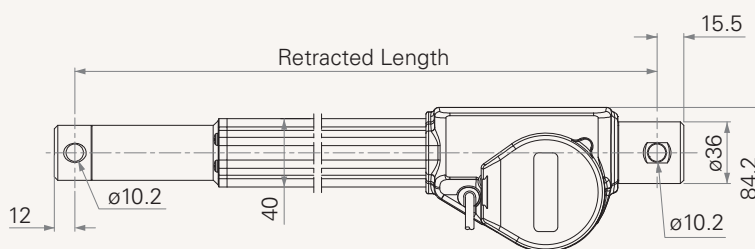
TiMOTION's TA10 series linear actuator is primarily used in the medical market. This actuator series handles high loads and is designed with a manual crank attachment. If necessary, medical staff will be able to easily operate the manual crank to adjust the patient bed. In addition, this linear actuator is available with an optional IP54 or 66 rating.

### General Features

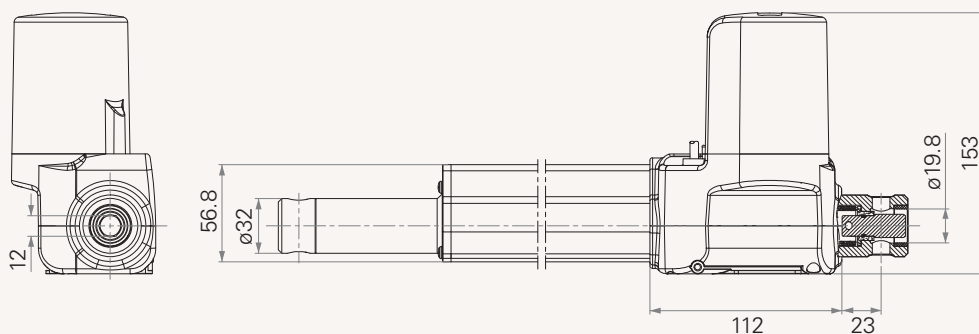
Voltage of motor	12V DC, 24V DC, or 36V DC
Maximum load	6,000N in push
Maximum load	4,000N in pull
Maximum speed at no load	14.3mm/s
Maximum speed at full load	7.6mm/s
Minimum installation dimension	stroke+188mm
Color	black or grey
Protection class	IP54 or IP66
Option	Hall sensor(s)
With manual crank function	

## Drawing

Standard Dimension  
(mm)



Drawing with Manual Operation  
(rear attachment)  
(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
<b>Motor speed (2600RPM)</b>						
<b>D</b>	6000	4000	4000	3.5	5.5	2.9
<b>J</b>	3500	3500	3500	3.6	11.1	5.5
<b>Motor speed(3400RPM)</b>						
<b>L</b>	6000	4000	4000	4.2	7.0	3.9
<b>Q</b>	3500	3500	3500	4.6	14.3	7.6
<b>Motor speed(3800RPM)</b>						
<b>X</b>	6000	4000	4000	4.4	8.3	5.2

## Note

- 1 The left diagram shows the speed and current figures under pushing condition.
- 2 Speed would be the same if with 12V motor, but with double current consumption comparing 24V motor.

## 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.

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### Additional Retracted Length

TA Series	Safety Stroke Limit (mm)	Additional Stroke (mm)	Additional Invalid Length (mm)
TA10	300	0<additional stroke≤50	5
TA10 (6000N)	200	0<additional stroke≤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 TA10's stroke is 201mm, the retracted length = 201mm+invalid length+5mm.
- 2 If TA10's stroke is 300mm, the retracted length = 300mm+invalid length+10mm.

# TA10 Ordering Key

TA10

Version: 20140715-C

<input type="checkbox"/>	<b>Voltage</b>	1 = 12V	2 = 24V	3 = 36V
<input type="checkbox"/>	<b>Load and Speed</b>	See appendix		
<input type="checkbox"/>	<b>Stroke (mm)</b>	Note : the stroke of electric operation is shorter than manual operation about 4mm.Please fill in the stroke of electric operation for this section		
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>	<b>Retracted Length (mm)</b>	Stroke+188mm (for front attachment 1, 2) Note : before selecting retracted length, please refer to the additional retracted length chart		
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>	<b>Rear Attachment</b>	1 = Casting hand crank rear attachment, hole 10.2mm	2 = Casting hand crank rear attachment, hole 12.2mm	
<input type="checkbox"/>	<b>Front Attachment</b>	1 = Casting, width 32mm, hole 10.2mm 2 = Casting, width 32mm, hole 12.2mm	A = Customized	
<input type="checkbox"/>	<b>Direction of Rear Attachment (Counterclockwise)</b>	1 = 0°	2 = 90°	
<input type="checkbox"/>	<b>Color</b>	1 = Black	2 = Grey (Pantone 428C)	
<input type="checkbox"/>	<b>IP Protection</b>	1 = Without	2 = IP54	3 = IP66
<input type="checkbox"/>	<b>Functions for Limit Switches</b>	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"/>	<b>Output Signals</b>	0 = Without	1 = One Hall sensor	2 = Two Hall sensors
<input type="checkbox"/>	<b>Plug</b>	1 = TiMOTION's standard 6pin plug	2 = Tinned leads	A = Customized
<input type="checkbox"/>	<b>Cable Length</b>	0 = Straight, 100mm 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