0° T*i* MOTION

TA21 series



Product Segments

- Care Motion
- Ergo Motion
- Industrial Motion

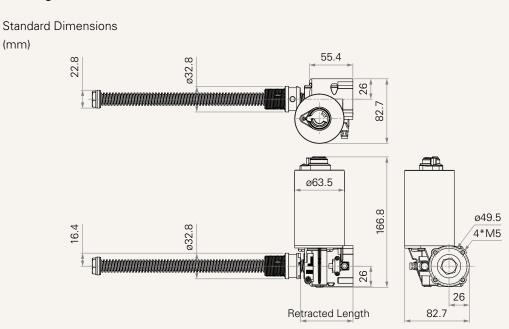
TiMOTION's TA21 electric linear actuator was designed for use in height adjustable medical and industrial workstations. Customers have a high degree of design flexibility with this actuator as it does not include a standard outer tube. This allows manufacturers to decide on the exact aesthetic and ingress specifications for their electric lifting column and overall application.

General Features

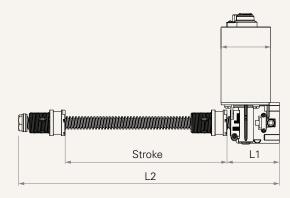
Voltage of motor Maximum load Maximum load Maximum speed at full load

Stroke Minimum installation dimension Color Options Certificate 24V DC, 24V DC (UL) 10,000N in push 6,000N in pull 16.2mm/s (with 4000N in a push or pull condition) 25~400mm ≥ 67mm Black or grey Safety nut, Hall / Reed sensor(s) UL962

Drawing



Retracted length L1, Min \ge 67mm (NO need to add stroke length)



Load and Speed

CODE	Load (N)		Self Locking	Typical Current (A)		Typical Speed (mm/s)	
	Push	Pull	Force (N)	No Load 24V DC	With Load 24V DC	No Load 24V DC	With Load 24V DC
Motor Speed	(3800RPM, du	t y cycle 10 %)					
Α	10000	6000	10000	2.0	15.0	12.1	6.3
С	7000	6000	6000	2.0	9.0	12.3	8.3
D	4000	4000	3000	2.0	9.5	24.7	16.2

Note

1 Please refer to the approved drawing for the final authentic value.

2 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.

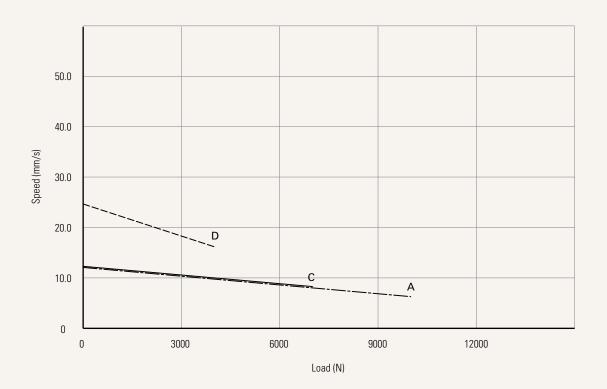
- 3 Operational temperature range: +5°C~+45°C
- 4 The current & speed in table are tested when the actuator is extending under push load.
- 5 The current & speed in table and diagram are tested with TiMOTION control boxes, and there will be around 10% tolerance depending on different models of the control box. (Under no load condition, the voltage is around 32V DC. At rated load, the voltage output will be around 24V DC)



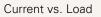


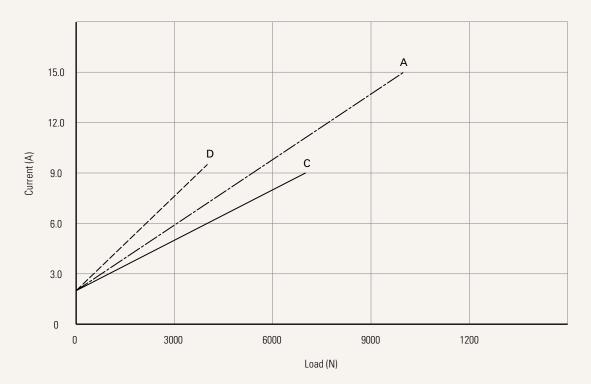
Performance Data (24V DC Motor)

Motor Speed (3800RPM)



Speed vs. Load







TA21 Ordering Key

100 T*i* **motion**

TA21

				Version: 20190527-E
Voltage	2 = 24V DC	5 = 24V DC, UL		
Load and Speed	<u>See page 2</u>			
Stroke (mm)				
Retracted Length (mm)	<u>See page 2</u>			
Motor Cable Color	1 = Black	2 = Grey (Pantone 428C)		
Special Functions for Spindle Sub- Assembly	1 = Safety nut			
Signal Output	0 = Without	2 = Hall sensors*2	3 = Reed Sensor	
Connector See page <u>5</u>	1 = DIN 6P, 90° plug	2 = Tinned leads	F = DIN 6P, 180° plug	
Cable Length (mm)	1 = Straight, 500 2 = Straight, 750	3 = Straight, 1000 4 = Straight, 1250	5 = Straight, 1500 6 = Straight, 2000	7 = Curly, 200 8 = Curly, 400

TA21 Ordering Key Appendix

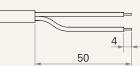


Connector



2 = Tinned leads





F = DIN 6P, 180° plug



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.