



Choose TiMOTION for  
Flexibility, Customized Products,  
and Tailor-Made Services

# CARE MOTION





# 99%

of TiMOTION's customer application requirements can be solved by providing highly customized solutions supported by our experienced personnel.

# 101%

TiMOTION guarantees complete customer satisfaction by providing competitive actuation solutions, coupled with a wide range of high-quality products, global service networks, and "on-demand" R&D resources.

# Linear Actuators

## TA series



### TA10

**Max. load**

6,000N (push)  
4,000N (pull)

**Max. speed at max. load**

4.2mm/s

**Max. speed at no load**

14.5mm/s

**Retracted length**

≥ Stroke + 188mm

**IP rating**

IP66



### TA11

**Max. load**

1,500N (push/pull)

**Max. speed at max. load**

10.5mm/s

**Max. speed at no load**

13.1mm/s

**Retracted length**

≥ Stroke + 155mm

**IP rating**

IP66W



### TA12



**Max. load**

12,000N (push)  
6,000N (pull)

**Max. speed at max. load**

4mm/s

**Max. speed at no load**

57.3mm/s

**Retracted length**

≥ Stroke + 210mm

**IP rating**

IP66W



## TA13

**Max. load**

10,000N (push)  
5,500N (pull)

**Max. speed at max. load**

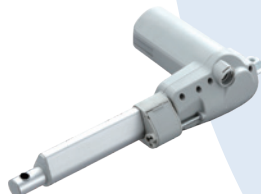
4.5mm/s

**Max. speed at no load**

49.4mm/s

**Retracted length**

≥ Stroke + 180mm



## TA15

**Max. load**

10,000N (push)  
5,500N (pull)

**Max. speed at max. load**

4.5mm/s

**Max. speed at no load**

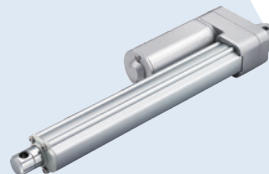
14.4mm/s

**Retracted length**

≥ Stroke + 210mm

**IP rating**

IP66



## TA16



**Max. load**

4,500N (push)  
2,500N (pull)

**Max. speed at max. load**

4.9mm/s

**Max. speed at no load**

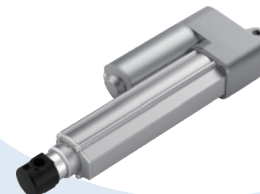
56.5mm/s

**Retracted length**

≥ Stroke + 112mm

**IP rating**

IP66M



## TA19

**Max. load**

1,000N (push)

**Max. speed at max. load**

18mm/s

**Max. speed at no load**

64mm/s

**Retracted length**

≥ Stroke/2 + 165mm

# Linear Actuators

## TA series



### TA21

**Max. load**

10,000N (push)  
6,000N (pull)

**Max. speed at max. load**

6.3mm/s

**Max. speed at no load**

24.7mm/s

**Retracted length**

≥ 67mm



### TA23

**Max. load**

10,000N (push)  
4,000N (pull)

**Max. speed at max. load**

3.2mm/s

**Max. speed at no load**

39mm/s

**Retracted length**

≥ Stroke + 163mm

**IP rating**

IP66W



### TA29

**Max. load**

6,000N (push)  
3,500N (pull)

**Max. speed at max. load**

3mm/s

**Max. speed at no load**

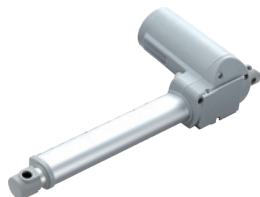
30.2mm/s

**Retracted length**

≥ 178mm (depending on  
chosen options)

**IP rating**

IP66W



## TA31

**Max. load**

8,000N (push)  
3,000N (pull)

**Max. speed at max. load**

3.7mm/s

**Max. speed at no load**

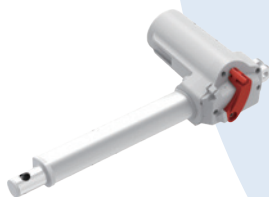
26.6mm/s

**Retracted length**

≥ Stroke + 157mm

**IP rating**

IP66W



## TA31QR

**Max. load**

5,000N (push)  
3,000N (pull)

**Max. speed at max. load**

4.9mm/s

**Max. speed at no load**

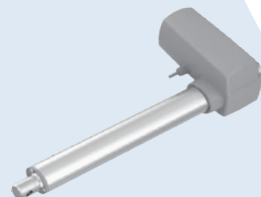
11.2mm/s

**Retracted length**

≥ Stroke + 178mm

**IP rating**

IP66W



## TA36



**Max. load**

10,000N (push)  
6,000N (pull)

**Max. speed at max. load**

5.4mm/s

**Max. speed at no load**

13.9mm/s

**Retracted length**

≥ Stroke + 170mm

**IP rating**

IP66W



## TA37



**Max. load**

12,000N (push)

**Max. speed at max. load**

5.3mm/s

**Max. speed at no load**

31.1mm/s

**Retracted length**

≥ Stroke + 170mm

**IP rating**

IP66W

# Linear Actuators

## TA series



TA38M

**Max. load**

2,000N (push)  
1,500N (pull)

**Max. speed at max. load**

6.2mm/s

**Max. speed at no load**

20mm/s

**Retracted length**

≥ 160mm (depending on  
chosen options)

**IP rating**

IP66



TA41

**Max. load**

8,000N (push)  
4,000N (pull)

**Max. speed at max. load**

4.3mm/s

**Max. speed at no load**

39mm/s

**Retracted length**

≥ Stroke + 163mm



TA49

**Max. load**

6,000N (push)  
2,000N (pull)

**Max. speed at max. load**

4.4mm/s

**Max. speed at no load**

14.7mm/s

**Retracted length**

≥ Stroke + 157mm

**IP rating**

IP66W



## TA50

**Max. load**

8,000N (push)  
3,000N (pull)

**Max. speed at max. load**

3.6mm/s

**Max. speed at no load**

15.7mm/s

**Retracted length**

≥ Stroke + 157mm

**IP rating**

IP66W

NEW



## TA51

**Max. load**

10,000N (push)  
6,000N (pull)

**Max. speed at max. load**

5.7mm/s

**Max. speed at no load**

14.7mm/s

**Retracted length**

≥ Stroke + 190mm

**IP rating**

IP66W



## TT1

**Max. load**

6,000N (push)

**Max. speed at max. load**

4.6mm/s

**Max. speed at no load**

6.8mm/s

**Dimension between shaft**

581mm

**IP rating**

IPX6

# Gear Motors

## TGM series



### TGM5

**Max. rated torque**  
18.3Nm

**Max. speed at max. load**  
88RPM ( $\pm 5\%$ )

**Max. speed at no load**  
117RPM ( $\pm 5\%$ )

**IP rating**  
IP66W

**Certificate**  
UL962



# Lifting Columns

TL  
series



## TL3

**Max. load**  
4,000N (push)

**Self-locking force**  
4,000N

**Max. dynamic  
bending moment**  
1,000Nm

**Max. speed at max. load**  
13.7mm/s

**Max. speed at no load**  
45mm/s

**Retracted length**  
 $\geq \text{Stroke}/2 + 150\text{mm}$

**IP rating**  
IPX6



## TL8

**Max. load**  
2,000N (push)

**Max. dynamic  
bending moment**  
500Nm

**Max. speed at max. load**  
9.6mm/s

**Max. speed at no load**  
32.6mm/s

**Retracted length**  
 $\geq (\text{Stroke}/2) + 150\text{mm}$

**IP rating**  
IPX6



## TL17

**Max. load**  
2,000N (push)

**Max. dynamic  
bending moment**  
250Nm

**Max. speed at max. load**  
11.5mm/s

**Max. speed at no load**  
41mm/s

**Retracted length**  
 $\geq \text{Stroke}/2 + 150\text{mm}$

**IP rating**  
IPX6



## TL18

**Max. load**  
4,500N (push)

**Self-locking force**  
4,500N

**Max. dynamic  
bending moment**  
250Nm

**Max. speed at max. load**  
6.6mm/s

**Max. speed at no load**  
45mm/s

**Retracted length**  
≥ Stroke + 147mm



## TL18AC

**Max. load**  
4,500N (push)

**Self-locking force**  
4,500N

**Max. dynamic  
bending moment**  
250Nm

**Max. speed at max. load**  
6.6mm/s

**Max. speed at no load**  
45mm/s

**Retracted length**  
≥ 383mm



## TL24

**Max. load**  
3,300N (push)

**Max. dynamic  
bending moment**  
200Nm

**Max. speed at max. load**  
6.5mm/s

**Max. speed at no load**  
36mm/s

**Retracted length**  
≥ Stroke + 188mm

**IP rating**  
IPX6



## TL27

**Max. load**  
3,300N (push)

**Self-locking force**  
3,300N

**Max. dynamic  
bending moment**  
200Nm

**Max. speed at max. load**  
6.5mm/s

**Max. speed at no load**  
36mm/s

**Retracted length**  
≥ Stroke + 256mm

# Lifting Columns

**TL**  
series



## TL50

**Max. load**  
1,150N (push)

**Self-locking force**  
1,150N

**Max. dynamic bending moment**  
542.5Nm

**Max. speed at max. load**  
32.2mm/s

**Max. speed at no load**  
49.4mm/s

**Retracted length**  
 $\geq \text{Stroke} + 500\text{mm}$



## TL51

**Max. load**  
6,000N (push)

**Self-locking force**  
6,000N

**Max. dynamic bending moment**  
1,000Nm ( $\geq \text{Stroke}/2 + 180\text{mm}$ )  
1,400Nm ( $\geq \text{Stroke}/2 + 240\text{mm}$ )

**Max. speed at max. load**  
8.6mm/s

**Max. speed at no load**  
26.2mm/s

**Retracted length**  
 $\geq \text{Stroke}/2 + 180\text{mm}$   
 $\geq \text{Stroke}/2 + 240\text{mm}$

**IP rating**  
IPX4 (cable exit:top end socket)  
IPX6 (cable exit:bottom sides)



## TL51P

**Max. load**  
6,000N (push)

**Self-locking force**  
6,000N

**Max. dynamic bending moment**  
500Nm

**Max. speed at max. load**  
10.7mm/s

**Max. speed at no load**  
30.5mm/s

**Retracted length**  
 $\geq \text{Stroke}/2 + 120\text{mm}$

**IP rating**  
IPX4 (cable exit:top end socket)  
IPX6 (cable exit:bottom sides)



## TL52

**Max. load**  
3,300N (push)

**Self-locking force**  
3,300N

**Max. dynamic  
bending moment**  
250Nm

**Max. speed at max. load**  
6.5mm/s

**Max. speed at no load**  
38mm/s

**Retracted length**  
 $\geq \text{Stroke} + 256\text{mm}$



## TL54

**Max. load**  
2,000N (push/pull)

**Self-locking force**  
2,000N

**Max. dynamic  
bending moment**  
250Nm

**Max. speed at max. load**  
12mm/s

**Max. speed at no load**  
21mm/s

**Retracted length**  
 $\geq \text{Stroke}/2 + 150\text{mm}$

**IP rating**  
IPX6



## TL56

**Max. load**  
2,000N (push)

**Self-locking force**  
2,000N

**Max. dynamic  
bending moment**  
500Nm

**Max. speed at max. load**  
9.6mm/s

**Max. speed at no load**  
16.5mm/s

**Retracted length**  
 $\geq \text{Stroke}/2 + 150\text{mm}$

**IP rating**  
IPX6

# Control Boxes



## TC8 Series

- Number of motors: 1~7
- Number of controls: 1~3
- IP rating: IP66



## TC12 Series

- Number of motors: 1~3
- Max. output: 24V DC, 10A
- IP rating: IP66
- Options: LCD display, LED power indicator



## TC12AC Series

- Number of motors: 1~3
- Max. output: 24V DC, 10A
- IP rating: IP54
- Options: LCD display, LED power indicator



## TC14 Series

- Number of motors: 1~4
- IP rating: IP66
- Options: Wireless module (optional)



### TC17 Series

- Number of motors: 1~4
- Max. output: 32V DC, 6.25A



### TC20 Series

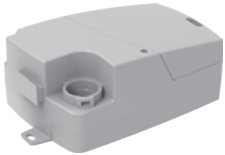
- Number of motors: 1~3
- Max. output: 24VDC, 10A
- IP rating: IP66
- Options: MCU, battery LED indicator, cable organizer



### TC21 Series

- Number of motors: 1~5
- Number of controls: 1~2
- Max. output: 32V DC, 10A
- IP rating: IP66W

# Control Boxes



## **TC26 Series**

- Number of motors: 1~3
- Number of controls: 1
- Max. output: 32V DC, 6A
- IP rating: IP66
- Options: Supports cord buckle and buzzer



## **TC28 Series**

- Number of motors: 1~4
- Number of controls: 1~2
- Max. output: 16A, 350W
- IP rating: IP66W
- Options: Wireless support



# Back-Up Power



## **TBB2 Series**

- Battery type: Lead acid, Lithium
- Capacity: 1.2Ah
- Discharging voltage: 24V DC, 1.2A



## **TBB4 Series**

- Battery type: Lead acid
- Capacity: 1.2 or 2.2Ah
- Discharging voltage: 24V DC, 2A



## **TBB5 Series**

- Battery type: Lithium iron
- Capacity: 4Ah
- Discharging voltage: 24V DC, 4A



## **TBB6 Series**

- Battery type: Lead acid
- Capacity: 2.9 or 5Ah
- Discharging voltage: 24V DC, 2.9/5A



### **TBB7 Series**

- Battery type: Lead acid, Lithium
- Capacity:  
2.9/5Ah (Lead acid);  
2.5/4.5/10Ah (Lithium)
- Discharging voltage:  
24V DC, 2.9/5A



### **TBB10 Series**

- Battery type: Lithium
- Capacity:  
25.2V DC/2500mAh
- Discharging voltage:  
25.2V DC

# Power Supplies



## TP4 Series

- Transformer type: Toroidal or SMPS
- Input voltage: 110/120/230 V AC or 100~240V AC (SMPS)
- Max. output: 36V DC, 9A



## TP6 Series

- Transformer type: SMPS
- Input voltage: 100~240V AC
- Max. output: 31.5V DC, 12A



## TP7M Series

- Transformer type: SMPS
- Input voltage: 100~240V AC
- Max. output: 29V DC, 3.75A



## TP8 Series

- Transformer type: SMPS
- Input voltage: 100~240V AC
- Max. output: 29V DC, 6.25A



### **TP9 Series**

- Transformer type: SMPS
- Input voltage: 100~240V AC
- Max. output: 36V DC, 2A

# Controls



TH1



TH2



TH7



TH10



TH12



TH21



TH24



TH26



TH30



TMH1



TMH3



TMH5



TMH7



TMH9



TMH11



TMH12

# Controls



TMH13



TMH15



TMH16



TMH17



TMH18



TMH19



TMH21



TMH26



TMH29



NEW

TMH30



NEW

TMH31



TFS



TFS2



TFS3



TFS5



TFS6

# Controls



TFS7



TFS8



TFS9



TFS10



TNP1



TNP2



TNP3



TNP4



TNP5



TNP6



TNP7



TNP8



TNP10



TFH1

# Accessories



TAB2  
Alarm Buzzer



TBC2  
Battery Charger



TBC3  
Battery Charger



TBL  
Bed Bottom Light



TBL2  
Bed Bottom Light



TBL3  
Bed Bottom Light



TCR  
AC Cable Reel



TEB  
Emergency Button



TEB2  
Emergency Button



TES  
External Switch



TFA5  
USB Chargers



TJB2  
Junction Box



TJB3  
Junction Box



TJB4  
Junction Box

# Accessories



TJB5  
Junction Box



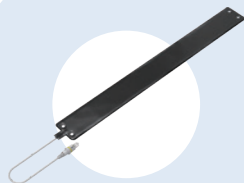
TJB11  
Junction Box



TLB  
Lock Box



TNC  
Nurse Call



TPS  
Pressure Sensor



TRF2  
Wireless Receiver



TRF4  
Wireless Receiver



TRL1  
Reading Light



TSS  
Safety Strip



TSS2  
Safety Strip



TWS1  
Weight Scale



TYC  
Y Cable



TYC2  
Y Cable



TYC3  
Y Cable

## Terms of Use

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TiMOTION uses FSC certificated paper in order to help care for our forests, as well as the people and wildlife who call them home.





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