



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**  
IP66D



### 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 + 185mm



## TA15



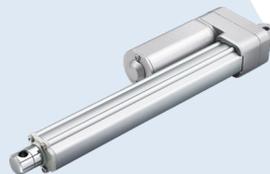
**Max. load**  
10,000N (push)  
5,500N (pull)

**Max. speed at max. load**  
4.5mm/s

**Max. speed at no load**  
14.4mm/s

**Retracted length**  
≥ Stroke + 215mm

**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



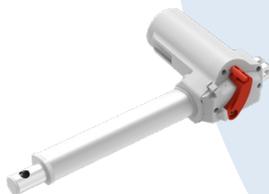
**Max. load**  
8,000N (push)  
3,000N (pull)

**Max. speed at max. load**  
3.7mm/s

**Max. speed at no load**  
26.6mm/s

**Retracted length**  
≥ Stroke + 157mm

**IP rating**  
IP66W



## TA31QR



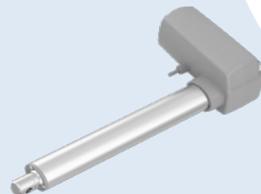
**Max. load**  
5,000N (push)  
3,000N (pull)

**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

NEW



## TA50

**Max. load**

8,000N (push)  
6,000N (pull)

**Max. speed at max. load**

3.7mm/s

**Max. speed at no load**

26.6mm/s

**Retracted length**

≥ Stroke + 157mm

**IP rating**

IP66



## 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**  
39mm/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)

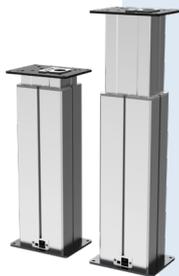
**Self-locking force**  
4,500N

**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)

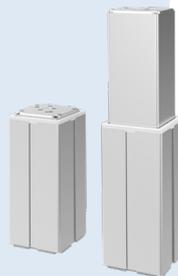
**Self-locking force**  
4,500N

**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**  
38mm/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**  
38mm/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



## 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**  
 $\geq$  Stroke + 150mm

**IP rating**  
IPX6

# Control Boxes



## TC8 Series

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



## TC10 Series

- Number of motors: 1~5
- Number of controls: 1~2
- Max. output: 29V DC, 12A
- IP rating: IP66
- Options: Alarm buzzer



## 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



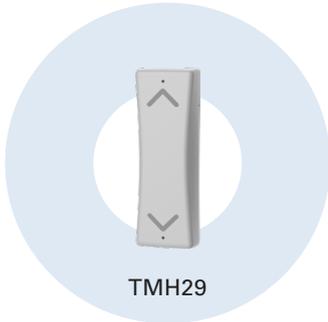
TMH11



TMH12

# Controls





TMH29



TMH30



TMH31



TFS



TFS2



TFS3



TFS5



TFS6

# Controls



TFS7



TFS8



TFS9



TFS10



TNP1



TNP2



TNP3



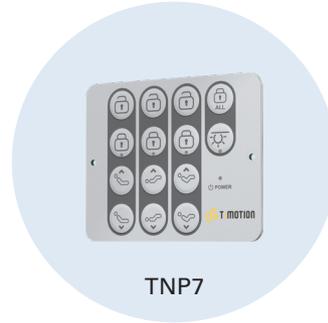
TNP4



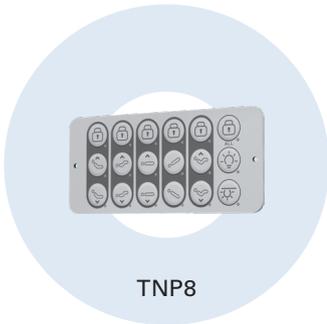
TNP5



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



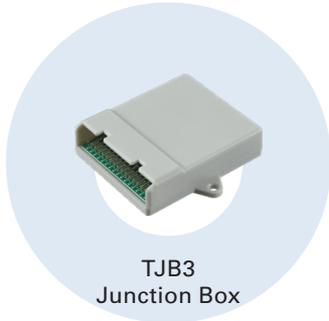
**TES**  
External Switch



**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



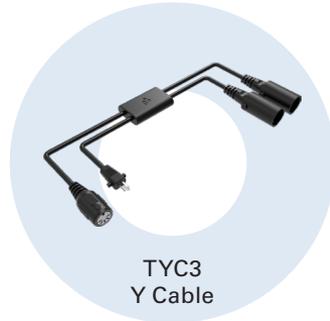
TRF2  
Wireless Receiver



TRF4  
Wireless Receiver



TRL1  
Reading Light



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### Every Day is Earth Day

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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