



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

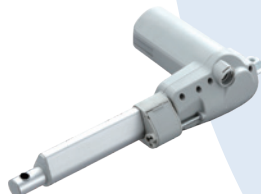
4.5mm/s

Max. speed at no load

49.4mm/s

Retracted length

$\geq \text{Stroke} + 180\text{mm}$



TA15

Max. load

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

Max. speed at max. load

4.5mm/s

Max. speed at no load

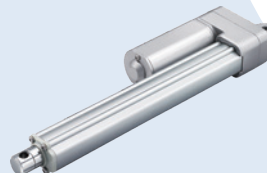
14.4mm/s

Retracted length

$\geq \text{Stroke} + 210\text{mm}$

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

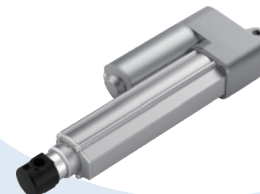
56.5mm/s

Retracted length

$\geq \text{Stroke} + 112\text{mm}$

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

$\geq \text{Stroke}/2 + 165\text{mm}$

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

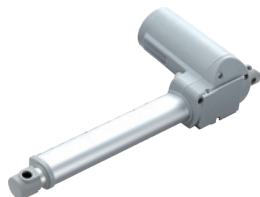
30.2mm/s

Retracted length

≥ 178mm (depending on
chosen options)

IP rating

IP66W



TA31

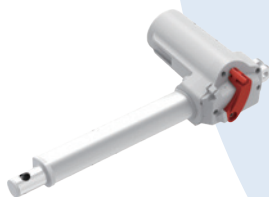
Max. load
8,000N (push)
3,000N (pull)

Max. speed at max. load
3.7mm/s

Max. speed at no load
26.6mm/s

Retracted length
 $\geq \text{Stroke} + 157\text{mm}$

IP rating
IP66W



TA31QR

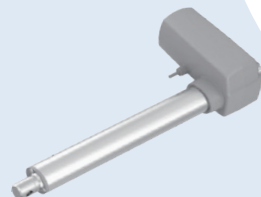
Max. load
5,000N (push)
3,000N (pull)

Max. speed at max. load
4.9mm/s

Max. speed at no load
11.2mm/s

Retracted length
 $\geq \text{Stroke} + 178\text{mm}$

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
 $\geq \text{Stroke} + 170\text{mm}$

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
 $\geq \text{Stroke} + 170\text{mm}$

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

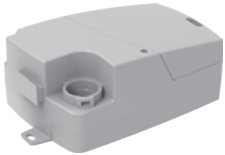
- Number of motors: 1~3
- Max. output: 24VDC, 10A
- IP rating: IP66
- Options: MCU, battery LED indicator, cable organizer



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



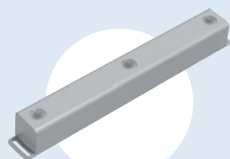
TBC3
Battery Charger



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



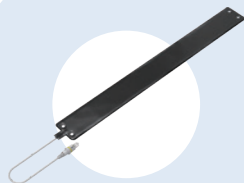
TJB11
Junction Box



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

The user is responsible for determining the suitability of TiMOTION products for a specific application. TiMOTION takes great care in providing accurate and up-to-date information on its products. However, due to continuous development, frequent modifications and changes to products may occur without prior notice. It is for this reason that TiMOTION cannot guarantee the correct and actual status of said information on its products, nor can it guarantee the availability of any particular product.

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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.



Taiwan & China

+886 2 2219 6633
sales.tw@timotion.com

Australia

+61 3 8725 0331
salesteam.au@timotion.com

Europe

+33 (0)1 74 82 50 51
sales.eu@timotion.com

Japan

+81 6 6713 1188
sales.jp@timotion.com

USA

(704) 708 6924
sales.us@timotion.com

Russia

+7 (495) 185-58-40
info@stalfors.ru