

# ACTUATION SYSTEMS FOR HIGH-END PATIENT LIFT APPLICATIONS

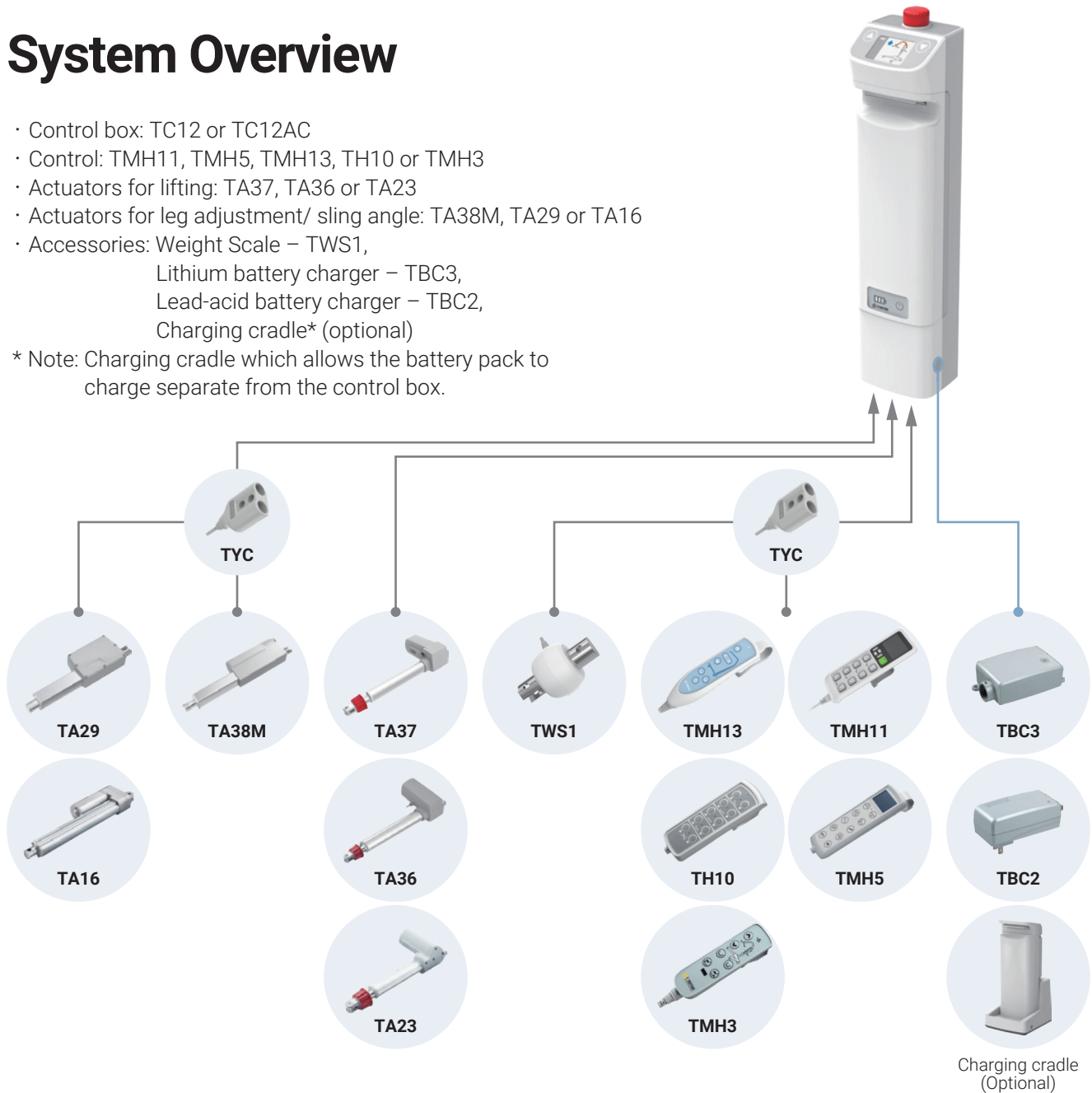
TiMOTION has created an optimal solution to meet specific patient needs and to secure a safe and comfortable transfer, as well as achieve a safe and efficient working environment for the caregivers. This solution provides high-end patient lifts at hospitals.



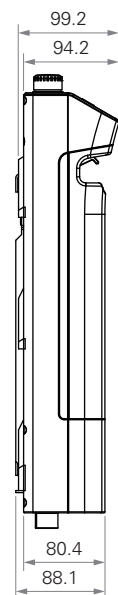
# System Overview

- Control box: TC12 or TC12AC
- Control: TMH11, TMH5, TMH13, TH10 or TMH3
- Actuators for lifting: TA37, TA36 or TA23
- Actuators for leg adjustment/ sling angle: TA38M, TA29 or TA16
- Accessories: Weight Scale – TWS1,  
Lithium battery charger – TBC3,  
Lead-acid battery charger – TBC2,  
Charging cradle\* (optional)

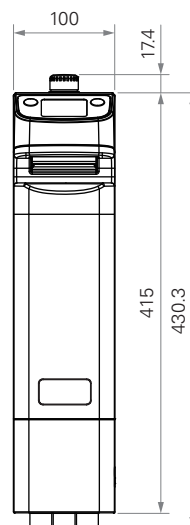
\* Note: Charging cradle which allows the battery pack to charge separate from the control box.



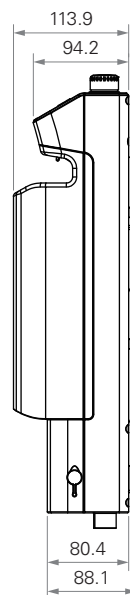
## Standard Dimensions (mm)



Battery type: 24V, 2.9Ah



Battery type: 24V, 5Ah



# An Intelligent Actuation System for Patient Lifts

TC12 and TC12AC are high-end control boxes for a patient hoist system which meets specific patient needs and secures a safe and comfortable transfer. Both of them offer multiple display and flexible battery charge options. The unique design of TC12AC is equipped with an AC plug to connect the power directly. Their slim physical design meets the installation dimension requirements. In addition, they offer flexible and customized key products based upon the customer's needs.



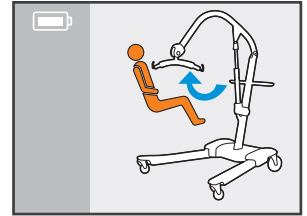
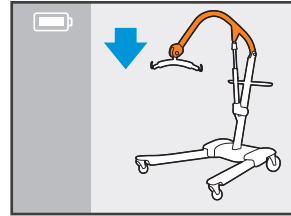
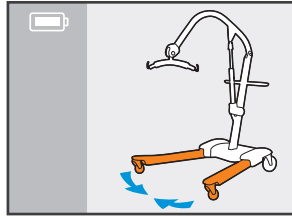
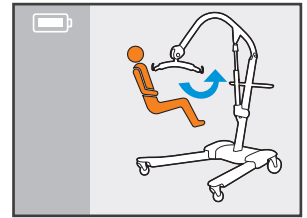
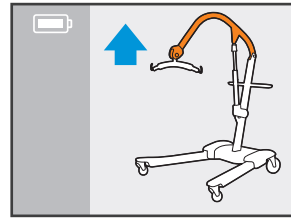
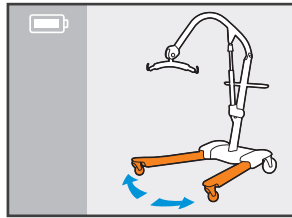
## TC12 and TC12AC key features:

- Multiple LCD displays: No Display / Black-White / Color
- Detachable battery pack: 2.9Ah or 5Ah
- With wall mount battery charger: TBC2 (Note: charge cradle is optional)
- IP rating: Up to IP66
- Certificate: IEC60601-1, ES60601-1, IEC60601-1-2
- Emergency stop button
- Easy installation
- LED power indicator on the battery pack (optional)

Note: TC12AC has an AC plug, which provides an alternative charging approach.

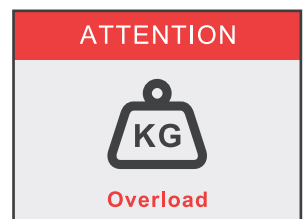
# Operation Status

Control legs open / close and sling up / down

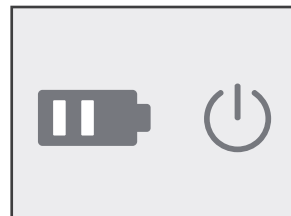


## Notification

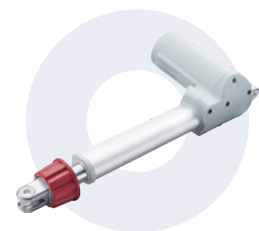
Alarm for low battery capacity, overloading, and safety switch to prevent over extending



## Battery Status



## Actuators for Lifting



### TA23

#### Max. load

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

#### Max. speed at max. load

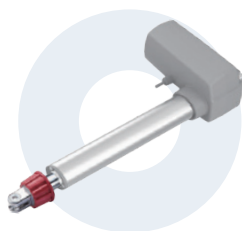
3.2mm/s

#### IP rating

IP66W

#### Options

Manual release (for patient hoist)



### TA36

#### Max. load

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

#### Max. speed at max. load

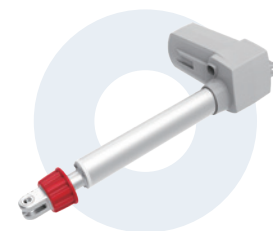
5.4mm/s

#### IP rating

IP66W

#### Options

Manual release (for patient hoist)



### TA37

#### Max. load

12,000N (push)

#### Max. speed at max. load

5.3mm/s

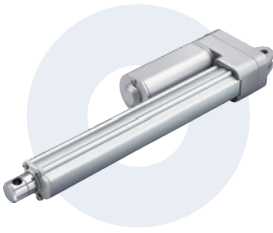
#### IP rating

IP66W

#### Options

Manual release (for patient hoist)

# Actuators for Leg Adjustment / Angle of Sling



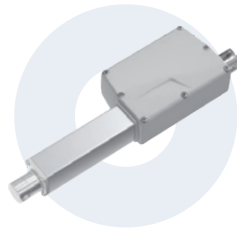
## TA16

### Max. load

3,500N (push/pull)

### Retracted length

≥ Stroke + 112mm



## TA29

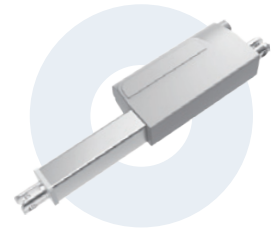
### Max. load

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

### Retracted length

≥ 178mm

(depending on chosen options)



## TA38M

### Max. load

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

### Retracted length

≥ 160mm

(depending on chosen options)

## Controls & Accessories



## TMH5

### Max. available buttons

10

### IP rating

IP66W



## TMH11

### Max. available buttons

13

### IP rating

IP54

### Options

Voice IC



## TH10

### Max. available buttons

10

### IP rating

IP66

### Options

Back light



## TMH3

### Max. available buttons

6

### IP rating

IP66

### Options

Hook



## TMH13

### Max. available buttons

7

### IP rating

IP66W

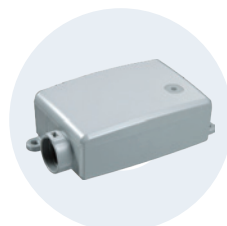
### Options

Hook



## TBC2

Battery charger



## TBC3

Battery charger

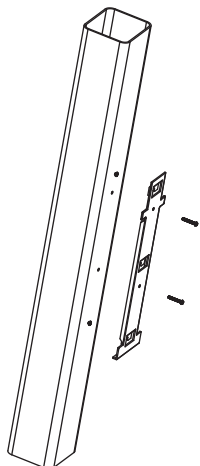


## TWS1

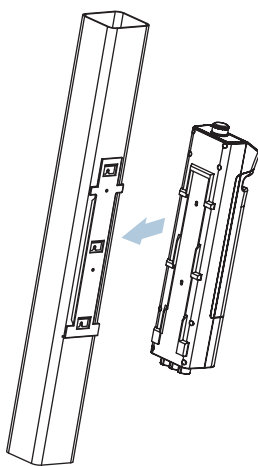
Weight scale

# Installation Guide

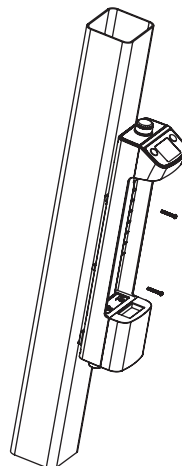
1. Install the bracket on the hoist frame



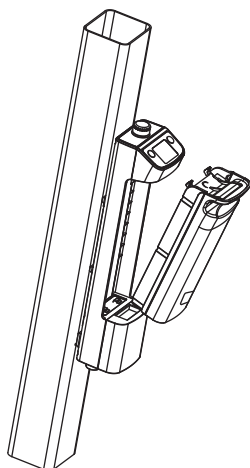
2. Install the TC12 on the bracket



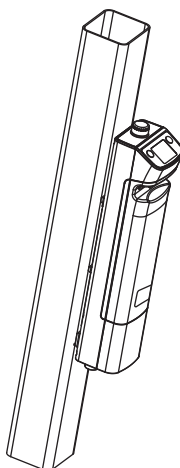
3. Make sure all fasteners are tightened properly



4. Install the battery



5. Installation is complete



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