

## Double Motor - Twinmat TW41 / TW61

TW41 / TW61 features high force and low noise level. It is designed with Moteck owned patent listed and suitable for applications of adjustable beds.



### Feature

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- Main applications: Furniture, homecare
- Max. load: 2 x 4500N (TW41) / 2 x 6000N (TW61)
- Max. speed at no load: 5 mm/sec
- Stroke: 29 ~ 87 mm
- Input voltage: 100V AC / 120V AC / 230V AC (transformer) or 100 ~ 240V AC (SMPS)
- Max. number of controls: 1 channel
- Max. number of additional actuators: 2 channels (24V DC)
- Power supply: 24V EI transformer
- Protection class: Class II
- AC Power cord length: 3000 mm
- Noise level:  $\leq 55$ dB
- IP Protection level: IP43
- Color: black
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Emergency lowering against power outage, to retract double motor with 9V batteries (not included)
- Ambient operation temperature: -20°C ~ +65°C
- Certified: CE marking, EMC Directive 2014/30/EU



## Option

- Version 1: Standard
- Version 2: Built-in RF module
- Version 3: Position memory with Hall effect sensors
- Internal switch mode power supply
- External switch mode power supply
- IP Protection level: IP54
- Socket to support external actuators
- Color: Light gray (RAL 7035)

## Compatibility

### Without memory function (Version 1, 2)

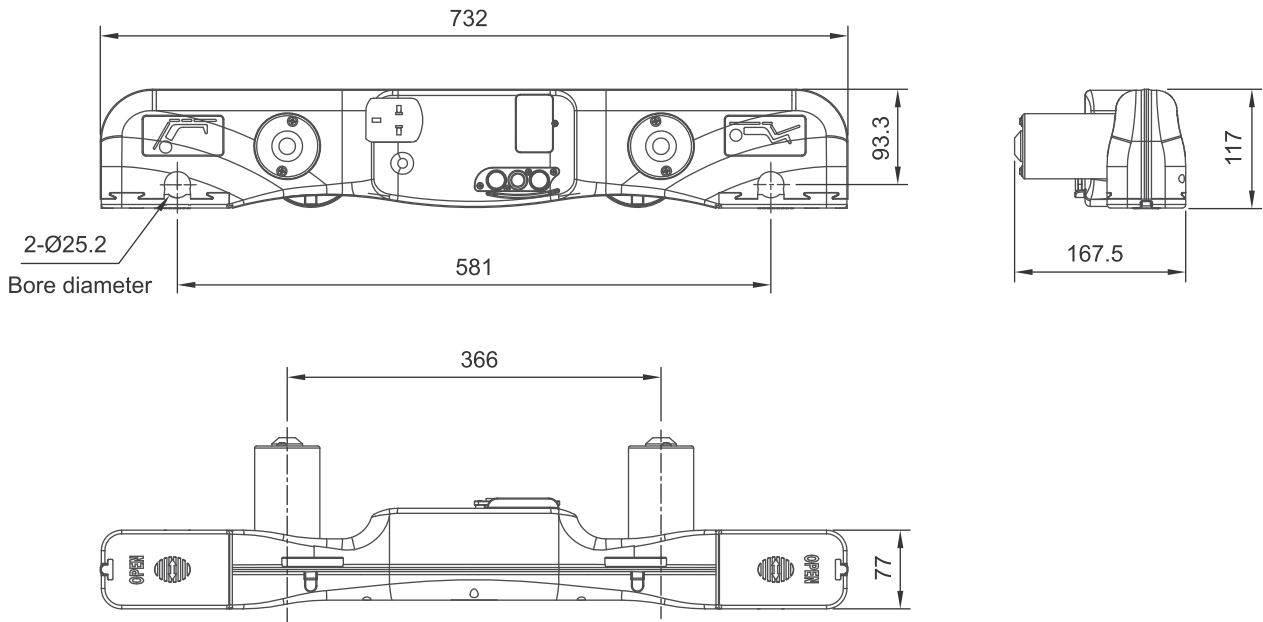
Product	Model	Compatible requirement
Hand control	HC, HD, HF, HI, HJ, HM, H2N, H3N, H3NT, HT, H3T, H4N, H2Z	- Moteck control category P1 - With Moteck A-type DIN plug
Wireless option	Wireless control: TXH3, TXT7, TX2T, TXZ	
	RF receiver adapter: TXA4	- Moteck control category P1 - With Moteck A-type DIN plug
	TBA3 bluetooth adapter	- Moteck control category P1 - With Moteck A-type DIN plug
Actuator	FD60, FD61	- 24V DC, max. 3A current - With Moteck A2-type DIN 41529 plug

### With memory function (Version 3)

Product	Model	Compatible requirement
Hand control	HI, H3N, H4N	- Moteck control category S1 - With Moteck A-type DIN plug
Wireless option	Wireless control: TXH4, TXT10, TX2T, TXZ	
	RF receiver adapter: TXA5	- Moteck control category S1 - With Moteck A-type DIN plug
	TBA4 bluetooth adapter	- Moteck control category S1 - With Moteck A-type DIN plug

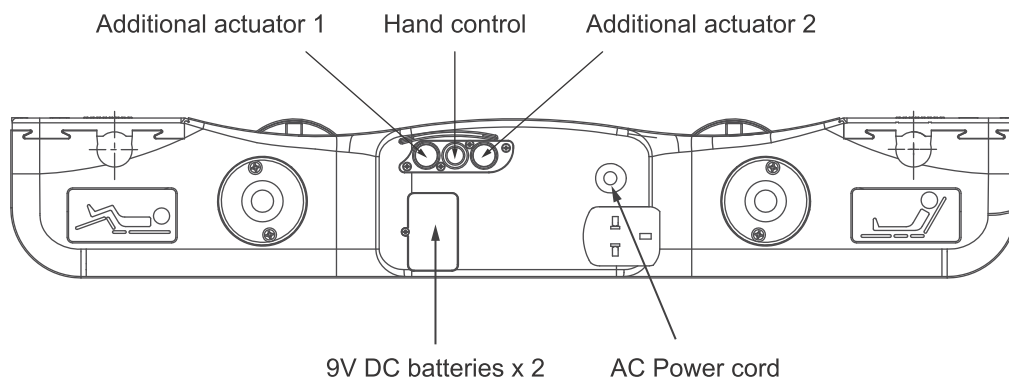


## Dimensions

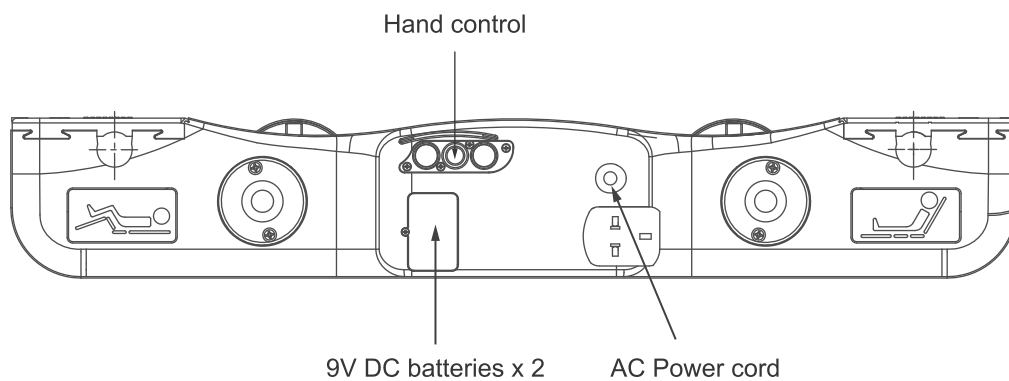


## I/O Introduction

### Without memory function



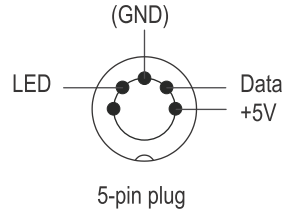
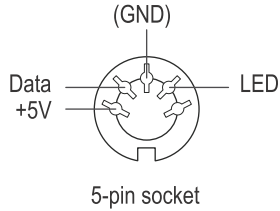
### With memory function



## Socket

### > Hand control socket (for Moteck A-type DIN plug)

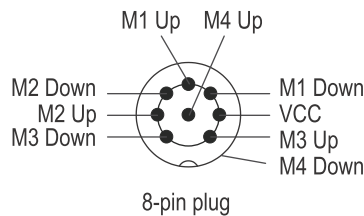
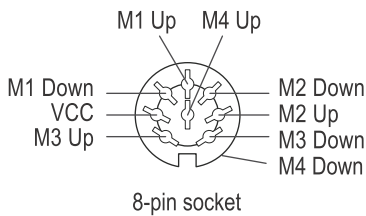
#### ▶ With memory function (Moteck control category S1)



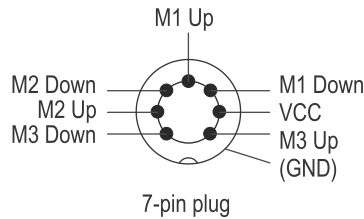
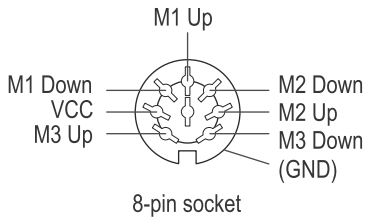
A-type

#### ▶ Without memory function (Moteck control category P1)

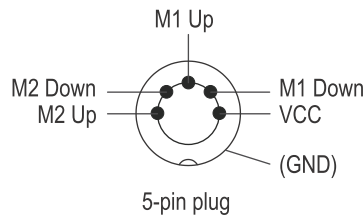
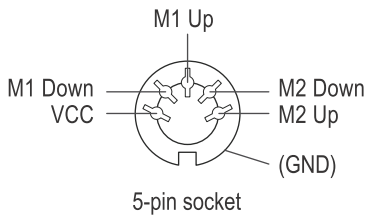
##### - 4 drives model



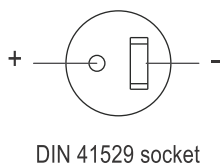
##### - 3 drives model



##### - 2 drives model



### > External actuator socket (for Moteck A2-type DIN 41529 plug)



A2-type



## Ordering Key

### > Version 1: Standard

	TW	6	1	ISW1	87	69	1	4	54	3	2	1
<b>Max. load</b>	4: 4500N 6: 6000N											
<b>Input voltage</b>	100: Transformer 100V AC 120: Transformer 120V AC 230: Transformer 230V AC TSW1: External SMPS (100~240V AC) TSW2: External SMPS (100~240V AC, with battery compartment for emergent lowering) ISW1: Internal SMPS (100 ~ 240V AC)											
<b>Stroke for back</b>	29 ~ 87 mm											
<b>Stroke for leg</b>	29 ~ 87 mm											
<b>Socket for control</b>	1: 1 socket											
<b>Number of drive</b>	2: 2 motors 3: 2 motors + 1 additional socket 4: 2 motors + 2 additional sockets											
<b>IP Protection level</b>	Blank: None 54: IP54											
<b>Cable</b>	3: Straight 3000mm											
<b>Bore diameter</b>	2: 25.2mm (standard) 6: 25.6mm											
<b>Battery</b>	0: None 1: With 9V DC battery x 2											



> Version 2: Built-in RF module

	TW	6	1	ISW1	87	69	1	2	RF	54	3	2	1
Max. load	4: 4500N 6: 6000N												
Input voltage	100: Transformer 100V AC 120: Transformer 120V AC 230: Transformer 230V AC TSW1: External SMPS (100~240V AC) TSW2: External SMPS (100~240V AC, with battery compartment for emergent lowering) ISW1: Internal SMPS (100 ~ 240V AC)												
Stroke for back	29 ~ 87 mm												
Stroke for leg	29 ~ 87 mm												
Socket for control	1: 1 socket												
Number of drive	2: 2 motors												
Version 2	RF: Bulit-in RF module												
IP Protection level	Blank: None 54: IP54												
Cable	3: Straight 3000mm												
Bore diameter	2: 25.2mm (standard) 6: 25.6mm												
Battery	0: None 1: With 9V DC battery x 2												



> **Version 3: Position memory with Hall effect sensors**

	TW 6 1 - ISW1 - 87 - 69 - 1 - 2 - HS - 54 3 2 1
<b>Max. load</b>	4: 4500N 6: 6000N
<b>Input voltage</b>	100: Transformer 100V AC 120: Transformer 120V AC 230: Transformer 230V AC TSW1: External SMPS (100~240V AC) TSW2: External SMPS (100~240V AC, with battery compartment for emergent lowering) ISW1: Internal SMPS (100 ~ 240V AC)
<b>Stroke for back</b>	29 ~ 87 mm
<b>Stroke for leg</b>	29 ~ 87 mm
<b>Socket for control</b>	1: 1 socket
<b>Number of drive</b>	2: 2 motors
<b>Version 3</b>	HS: Position memory with Hall effect sensors
<b>IP Protection level</b>	Blank: None 54: IP54
<b>Cable</b>	3: Straight 3000mm
<b>Bore diameter</b>	2: 25.2mm (standard) 6: 25.6mm
<b>Battery</b>	0: None 1: With 9V DC battery x 2

