

HEMOCARE & MEDICAL APPLICATIONS

MOTECK[®]
MOTORIZE OUR WORLD



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MOTORIZE OUR WORLD

About Moteck

Drawing on a heritage of more than 20 years in designing and producing reliable electromotive drive and control system, Moteck® products and solutions are comprehensively adopted by well-known customers worldwide. Started business in Satellite TV Antenna Motorization, we have been successfully expanding our business to market sectors in medical, homecare, furniture, industrial automation, mobility off highway, solar tracker, and gate opener.

The quality management system with ISO 9001 certified is solid executed for the whole organization. All products are compliant with international standards, such as CE, UL, PSE and RoHS, according to different countries and industrial requirements. With strong capability of manufacturing, product development and system integration, we can meet specific customization needs. Now we are strategic partner of many customers in US, Europe, Japan, and China, to design whole electromotive drive system for their products.



Advantage

- Satisfied Quality to Price Ratio
- High Creativity and Flexibility
- Customization Available for Diversified Specification
- Harmonious Integration of Electronic and Mechanical Engineering
- Professional Global Operations
- Manufacturing Capabilities with Large Scale Capacity

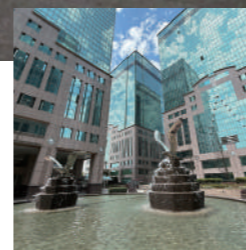


Location

Head Office: Taipei, Taiwan

Sales Office: Clermont-Ferrand, France / Mannheim, PA, USA / Guangdong, China

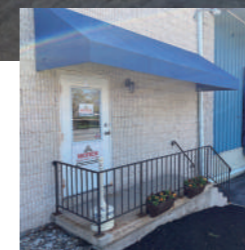
Factory: Taoyuan, Taiwan / Suzhou, China



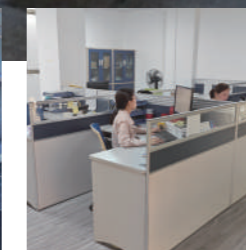
Taipei, Taiwan



Clermont-Ferrand, France



Mannheim, PA, USA



Guangdong, China



Taoyuan, Taiwan



Suzhou, China

Five Function Bed

- ✓ Back adjustment
- ✓ Foot adjustment
- ✓ Hi-low adjustment
- ✓ Trendelenburg position
- ✓ Anti-trendelenburg position



6000N Actuators



FD61



MD66



MK67



MK31

IPX4 up

Control



HT



HC

IPX4 up



HS12



H3T

Control Box



CB4M




CM41




CM45

IPX4 up

Accessory



SB1
Stop Button



BTP3
Battery Box

Bed System with MOTECK Bus Protocol

- ✓ Multi function bed with scale system
- ✓ Stand up bed
- ✓ Turning bed
- ✓ Rotating bed



Actuator



MD82



MD66



MK67



MK31



MK31-QR



MK32



DLC1

Control



HS12-M



H3T-M



CP1



CP2

Control Box



CB5P-M



CM41-M

Accessory



SB1
Stop Button



BTP3
Battery Box



JB1
Junction Box
& Under Bed Light



JB3
Junction Box



FL2
Floor Light

Patient Transfer Chair

Patient Lift

Control (direct-cut)



HS13



HS15

Actuator



MK32



MD10



MD21



Accessory



BTP2-L
Battery Box

Control Box



CM23

+

Control



HS10
(Wired)



TX02
(Wireless)

Actuator for Sling



MD100



MD82



MD60

Control



HS12L



HTF



H2T



Control Box



CBP2



CM42



CM43

Accessory

Charger



CH43

Battery Box



BTP1



BT43

Actuator for Legs (optional)



MD21



MK32

Electric Wheelchair



Treatment Chair



Actuator



FD61

Max. 6000N



MD57

Max. 4000N



LD12

Max. 2000N



MD82

Max. 8000N



MD60

Max. 6000N



MD66

Max. 6000N



MK67

Max. 6000N

Actuator



MK32

Max. 3500N



MD21

Max. 2000N

Lifting Column



DLC1

Max. 2000N



DLC2

Max. 2000N



DLC5

Max. 4000N



LD12

Input: 12 / 24V DC
Max. Push Load: 2000N
Max. Pull Load: 2000N
Max. Static Load: 2500N
Max. Speed at No Load: 33.5mm/s
Stroke: 50 / 100 / 150 / 200 / 250 / 300 / 350 / 400mm
Duty Cycle: 10%

IP Level: IP66
Min. Installation Dimension: 183mm+Stroke
Material:
 All stainless steel SUS304 /
 Black coating steel case
Option:
 Hall-effect sensor
 IP Level: IPX9K
Accessories:
 MB22 mounting bracket



CM23

| Model No. | Max. Push/Pull Load (N) | Gear Ratio | Typical Speed (mm/s) | | Typical Current (A) | | | |
|-----------------|-------------------------|------------|----------------------|-----------|---------------------|------|-----------|-----|
| | | | No Load | Full Load | No Load | | Full Load | |
| | | | | | 12V | 24V | 12V | 24V |
| LD12-XX19-M4... | 400 | 19:1 | 33.5 | 23.5 | N/A | 0.7 | N/A | 1.8 |
| LD12-XX19-M2... | 600 | 19:1 | 17.2 | 12.1 | 0.7 | 0.4 | 3.6 | 1.8 |
| LD12-XX27-M2... | 1000 | 27:1 | 12.3 | 8.0 | 0.7 | 0.4 | 3.6 | 1.8 |
| LD12-XX43-M2... | 1500 | 43:1 | 7.1 | 5.0 | 0.7 | 0.4 | 3.6 | 1.8 |
| LD12-XX57-M2... | 2000 | 57:1 | 5.8 | 3.5 | N/A | 0.4 | N/A | 1.8 |
| LD12-2457-K2... | 1500 | 57:1 | 3.3 | 2.2 | N/A | 0.25 | N/A | 0.9 |

MK32

Input: 24V DC
Max. Push Load: 3500N
Max. Pull Load: 3500N
Max. Speed at No Load: 26.0mm/s
Stroke: 50~600mm
Duty Cycle: 10%
Noise Level: ≤52dB

IP Level: IPX4, IP66
Min. Installation Dimension: 112mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)



CM45



CM41 / CM41-M



CB5P-M

| Model No. | Max. Push / Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|--------------|---------------------------|----------------------|-----------|---------------------|-----------|
| | | No Load | Full Load | No Load | Full Load |
| MK32-24N3... | 3500 | 6.5 | 5.0 | 2.5 | 5.0 |
| MK32-24N4... | 3000 | 8.5 | 6.0 | 2.5 | 5.2 |
| MK32-24N6... | 2500 | 13.0 | 9.0 | 2.5 | 6.0 |
| MK32-24N8... | 2000 | 17.0 | 11.5 | 2.5 | 5.5 |
| MK32-24NC... | 1500 | 26.0 | 14.0 | 2.5 | 6.0 |
| MK32-24P4... | 3000 | 6.0 | 3.0 | 2.5 | 5.0 |
| MK32-24P6... | 2500 | 10.5 | 5.5 | 2.5 | 4.5 |
| MK32-24P8... | 2000 | 14.0 | 7.5 | 2.5 | 4.5 |

MD10

Input: 24V DC
Max. Push Load: 1000N
Max. Pull Load: 1000N
Max. Speed at No Load: 36.0mm/s
Stroke: 50~300mm
Duty Cycle: 10%
Noise Level: ≤52dB

IP Level: IPX5
Min. Installation Dimension: 115mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube



CM23



CM41 / CM41-M

| Model No. | Max. Push / Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|--------------|---------------------------|----------------------|-----------|---------------------|-----------|
| | | No Load | Full Load | No Load | Full Load |
| | | | | | |
| MD10-24F4... | 1000 | 5.1 | 2.8 | 0.8 | 1.1 |
| MD10-24R4... | 1000 | 7.2 | 4.5 | 1.0 | 1.8 |
| MD10-24F8... | 750 | 10.1 | 4.3 | 0.8 | 1.4 |
| MD10-24R8... | 750 | 14.2 | 8.4 | 1.0 | 2.1 |
| MD10-24FC... | 500 | 15.1 | 7.4 | 0.8 | 1.3 |
| MD10-24L8... | 500 | 18.6 | 14.8 | 1.2 | 2.0 |
| MD10-24RC... | 500 | 21.6 | 13.9 | 1.0 | 1.8 |
| MD10-24LC... | 400 | 27.5 | 20.0 | 1.2 | 2.1 |
| MD10-24LG... | 250 | 36.0 | 29.3 | 1.2 | 1.9 |

MD21

Input: 24V DC
Max. Push Load: 2000N
Max. Pull Load: 2000N
Max. Speed at No Load: 23.6mm/s
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX5
Min. Installation Dimension: 135mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
Accessories:
 MB22 mounting bracket



CM23



CM41 / CM41-M

| Model No. | Max. Push / Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|--------------|---------------------------|----------------------|-----------|---------------------|-----------|
| | | No Load | Full Load | No Load | Full Load |
| MD21-24N4... | 2000 | 7.5 | 5.3 | 1.1 | 3.0 |
| MD21-24N6... | 1500 | 11.0 | 7.6 | 1.1 | 3.2 |
| MD21-24NC... | 1000 | 23.6 | 15.7 | 1.1 | 3.2 |



MK31

Input: 24V DC
Max. Push Load: 6000N
Max. Pull Load: 3000N
Max. Speed at No Load: 16.4mm/s
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX6
Min. Installation Dimension: 170mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)



CM45



CM41 / CM41-M



CB5P-M

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Self-locking Ability (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|--------------|--------------------|--------------------|--------------------------|----------------------|-----------|---------------------|-----------|
| | | | | No Load | Full Load | No Load | Full Load |
| MK31-24F4... | 6000 | 3000 | 6000 | 5.8 | 4.0 | 0.5 | 3.8 |
| MK31-24F6... | 5000 | 3000 | 5000 | 8.8 | 6.2 | 0.5 | 4.4 |
| MK31-24F8... | 4000 | 3000 | 4000 | 11.7 | 8.9 | 0.5 | 4.2 |
| MK31-24FC... | 2000 | 2000 | 2000 | 16.4 | 13.3 | 0.7 | 3.2 |

MK31-QR

Input: 24V DC
Max. Push Load: 4000N
Max. Speed at No Load: 6.8mm/s
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX6
Min. Installation Dimension: 170mm+Stroke
Quick release function
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)



CM45



CM41 / CM41-M



CB5P-M

| Model No. | Max. Push Load (N) | Self-locking Ability (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|-----------------|--------------------|--------------------------|----------------------|-----------|---------------------|-----------|
| | | | No Load | Full Load | No Load | Full Load |
| MK31-QR-24A7... | 4000 | 4000 | 6.8 | 4.9 | 1.0 | 3.5 |

MD66

Input: 24V DC
Max. Push Load: 6000N
Max. Pull Load: 4000N
Max. Speed at No Load: 16.6mm/s
Stroke: 50~300mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX5
Min. Installation Dimension: 160mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 Mechanical brake
 IP Level: IP66



CM45



CM41 / CM41-M



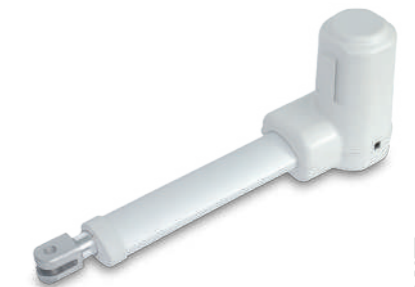
CB5P-M

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Self-locking Ability (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|--------------------|--------------------|--------------------------|----------------------|-----------|---------------------|-----------|
| | | | | No Load | Full Load | No Load | Full Load |
| MD66-24-A4... | 6000 | 4000 | 5000 | 4.2 | 2.9 | 0.6 | 2.7 |
| MD66-24-A6... | 4000 | 4000 | 2500 | 6.2 | 3.8 | 0.6 | 3.0 |
| MD66-24-A8... | 3000 | 3000 | 2000 | 8.3 | 5.0 | 0.6 | 2.7 |
| MD66-24-AG... | 1500 | 1500 | 700 | 16.6 | 12.2 | 0.6 | 2.8 |

MD60

Input: 24V DC
Max. Push Load: 6000N
Max. Pull Load: 4000N
Max. Speed at No Load: 23.0mm/s
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤53dB

IP Level: IPX4
Min. Installation Dimension: 155mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 QR2 quick release
 MR3 manual release
 IP Level: IPX6



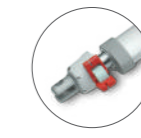
CM43



CM41 / CM41-M



CB5P-M



QR2 QUICK RELEASE



MR3 MANUAL RELEASE

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|--------------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | | No Load | Full Load | No Load | Full Load |
| MD60-24-A4... | 6000 | 4000 | 3.8 | 2.5 | 0.5 | 3.5 |
| MD60-24-A8... | 6000 | 4000 | 7.6 | 5.0 | 0.5 | 4.5 |
| MD60-24-AC... | 3000 | 3000 | 11.5 | 8.2 | 0.5 | 3.5 |
| MD60-24-K4... | 6000 | 4000 | 7.5 | 4.5 | 0.5 | 4.5 |
| MD60-24-K8... | 3000 | 3000 | 15.3 | 10.0 | 0.5 | 4.0 |
| MD60-24-KC... | 2000 | 2000 | 23.0 | 14.7 | 0.5 | 4.0 |



MK67

Input: 24V DC
Max. Push Load: 6000N
Max. Pull Load: 4000N
Max. Speed at No Load: 12.1mm/s
Stroke: 50~300mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX5
Min. Installation Dimension: 142mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Enhanced nut
 IP Level: IP66



CM45



CM41 / CM41-M



CB5P-M

| Model No. | Input Voltage (V DC) | Max. Push Load (N) | Max. Pull Load (N) | Self-locking Ability (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|----------------------|--------------------|--------------------|--------------------------|----------------------|-----------|---------------------|-----------|
| | | | | | No Load | Full Load | No Load | Full Load |
| MK67-24-A4... | 24 | 6000 | 4000 | 6000 | 4.1 | 2.6 | 0.4 | 3.1 |
| MK67-24-A6... | 24 | 4000 | 3000 | 4000 | 6.1 | 4.1 | 0.4 | 2.9 |
| MK67-24-A8... | 24 | 3000 | 3000 | 3000 | 8.0 | 6.0 | 0.4 | 2.6 |
| MK67-24-AC... | 24 | 2000 | 2000 | 2000 | 12.1 | 9.1 | 0.4 | 2.4 |
| MK67-24-E4... | 32 | 6000 | 4000 | 6000 | 6.5 | 5.2 | 0.6 | 3.5 |

MK41

Input: 24V DC
Max. Push Load: 8000N
Max. Pull Load: 4000N
Max. Speed at No Load: 8.3mm/s
Stroke: 50~300mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX6
Min. Installation Dimension: 160mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 Mechanical brake
 IP Level: IP66



CM45



CM41 / CM41-M



CB5P-M

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Self-locking Ability (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|--------------|--------------------|--------------------|--------------------------|----------------------|-----------|---------------------|-----------|
| | | | | No Load | Full Load | No Load | Full Load |
| MK41-24A4... | 8000 | 4000 | 6500 | 4.0 | 2.7 | 0.9 | 4.0 |
| MK41-24A6... | 6000 | 4000 | 5500 | 6.1 | 4.3 | 0.9 | 3.5 |
| MK41-24A8... | 4000 | 4000 | 4000 | 8.3 | 5.7 | 0.9 | 3.8 |

MD80

Input: 24V DC
Max. Push Load: 8000N
Max. Pull Load: 6000N
Max. Speed at No Load: 16.6mm/s
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤53dB

IP Level: IPX4 / IPX5
Min. Installation Dimension: 180mm+Stroke
Preset limit switches
Option:
 Mechanical push only extension tube
 Safety nut (in push direction)
 QR2 quick release
 MR3 manual release



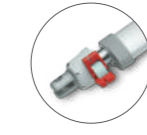
CM43



CM41 / CM41-M



CB5P-M



QR2 QUICK RELEASE



MR3 MANUAL RELEASE

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|--------------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | | No Load | Full Load | No Load | Full Load |
| MD80-24DA4... | 8000 | 6000 | 4.2 | 3.3 | 0.6 | 5.5 |
| MD80-24DA6... | 8000 | 6000 | 6.2 | 4.6 | 0.6 | 6.0 |
| MD80-24DA8... | 8000 | 6000 | 8.1 | 5.9 | 0.6 | 6.5 |
| MD80-24DK8... | 3000 | 3000 | 16.6 | 11.8 | 1.0 | 5.5 |

MD80M

Input: 110 / 230V AC
 (24V / 8A toroidal transformer)
Output: 24V DC
Max. Push Load: 8000N
Max. Pull Load: 6000N
Max. Speed at No Load: 16.6mm/s
Number of Control(s): 1
Number of Additional Actuator(s): 2
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤53dB

IP Level: IPX4 / IPX5
Min. Installation Dimension: 180mm+Stroke
Preset limit switches
Integrate with control unit and power supply
Option:
 Mechanical push only extension tube
 Safety nut (in push direction)



| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|--------------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | | No Load | Full Load | No Load | Full Load |
| MD80M-24A4... | 8000 | 6000 | 4.2 | 3.3 | 0.6 | 5.5 |
| MD80M-24A6... | 8000 | 6000 | 6.2 | 4.6 | 0.6 | 6.0 |
| MD80M-24A8... | 8000 | 6000 | 8.1 | 5.9 | 0.6 | 6.7 |
| MD80M-24K8... | 3000 | 3000 | 16.6 | 11.8 | 1.0 | 5.0 |



MD82

Input: 24V DC
Max. Push Load: 8000N
Max. Pull Load: 6000N
Max. Speed at No Load: 8.2mm/s
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX4 / IPX6
Min. Installation Dimension: 177mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 MR3 manual release



CM43



CM41 / CM41-M



CB5P-M



MR3
MANUAL RELEASE

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|--------------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | | No Load | Full Load | No Load | Full Load |
| MD82-24DA4... | 8000 | 5000 | 4.1 | 3.1 | 0.6 | 4.2 |
| MD82-24DA6... | 8000 | 5000 | 6.0 | 3.9 | 0.6 | 5.4 |
| MD82-24DA8... | 8000 | 5000 | 8.2 | 4.8 | 0.6 | 6.3 |

MK36

Input: 24V DC
Max. Push Load: 10000N
Max. Pull Load: 6000N
Max. Speed at No Load: 7.4mm/s
Stroke: 50~500mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX6
Min. Installation Dimension: 187mm+Stroke
Preset limit switches
Safety nut (in push direction)
Steel extension tube and metal gearbox
Option:
 Hall-effect sensor



CM45



CM41-M



CB5P-M

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Self-locking Ability (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|--------------|--------------------|--------------------|--------------------------|----------------------|-----------|---------------------|-----------|
| | | | | No Load | Full Load | No Load | Full Load |
| MK36-24A4... | 10000 | 6000 | 10000 | 3.8 | 2.7 | 0.8 | 5.0 |
| MK36-24A6... | 8000 | 6000 | 8000 | 5.8 | 4.0 | 0.7 | 5.3 |
| MK36-24A8... | 6000 | 6000 | 6000 | 7.4 | 5.2 | 0.8 | 4.9 |

MD100

Input: 24V DC
Max. Push Load: 10000N
Max. Pull Load: 6000N
Max. Speed at No Load: 9.0mm/s
Stroke: 100~600mm
Duty Cycle: 10%
Noise Level: ≤52dB

IP Level: IPX4 / IPX6
Min. Installation Dimension: 210mm+Stroke
Preset limit switches
Option:
 Mechanical push only extension tube
 Safety nut (in push direction)
 QR2 quick release
 MR3 manual release



CM42



CM43



QR2
QUICK RELEASE



MR3
MANUAL RELEASE

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|--------------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | | No Load | Full Load | No Load | Full Load |
| MD100-24DC... | 10000 | 6000 | 7.0 | 5.2 | 1.0 | 7.0 |
| MD100-24FC... | 10000 | 6000 | 9.0 | 6.7 | 1.0 | 8.2 |

MD120

Input: 24V DC
Max. Push Load: 12000N
Max. Pull Load: 6000N
Max. Speed at No Load: 6.9mm/s
Stroke: 100~400mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX4
Min. Installation Dimension: 215mm+Stroke
Preset limit switches
Option:
 Mechanical push only extension tube
 Electrical push only function
 MR3 manual release
 IP Level: IPX6



CM42



CM43



MR3
MANUAL RELEASE

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|--------------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | | No Load | Full Load | No Load | Full Load |
| MD120-24E8... | 12000 | 6000 | 6.3 | 4.4 | 0.6 | 6.6 |
| MD120-24F8... | 10000 | 6000 | 6.9 | 5.5 | 0.9 | 6.5 |



MD7

Input: 12 / 24V DC
Max. Push Load: 6000N
Max. Pull Load: 4000N
Max. Speed at No Load: 16.6mm/s
Stroke: 50~300mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IP54
Min. Installation Dimension: 160mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 Mechanical brake



CM41 / CM41-M

| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Self-locking Ability (N) | Typical Speed (mm/s) | | Typical Current (A) | | | |
|--------------|--------------------|--------------------|--------------------------|----------------------|-----------|---------------------|-----|-----------|-----|
| | | | | No Load | Full Load | No Load | | Full Load | |
| | | | | | | 12V | 24V | 12V | 24V |
| MD7-XX-A4... | 6000 | 4000 | 5000 | 4.2 | 2.9 | 1.2 | 0.6 | 5.4 | 2.7 |
| MD7-XX-A6... | 4000 | 4000 | 2500 | 6.2 | 3.8 | 1.2 | 0.6 | 5.6 | 2.8 |
| MD7-XX-A8... | 3000 | 3000 | 2000 | 8.3 | 5.0 | 1.2 | 0.6 | 5.6 | 2.8 |
| MD7-XX-AG... | 1500 | 1500 | 700 | 16.6 | 12.2 | 1.2 | 0.6 | 5.6 | 2.8 |
| MD7-XX-F4... | 5000 | 4000 | 5000 | 5.5 | 4.4 | 1.2 | 0.6 | 5.6 | 2.8 |
| MD7-XX-F8... | 3000 | 3000 | 2000 | 11.0 | 8.2 | 1.2 | 0.6 | 5.8 | 2.9 |

FD61

Input: 24V DC
Max. Push Load: 6000N
Max. Pull Load: 4000N
Max. Speed at No Load: 16.2mm/s
Stroke: 50~300mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IP42
Min. Installation Dimension: 150mm+Stroke
Preset limit switches
Option:
 Hall-effect sensor
 Mechanical push only extension tube
 Mechanical brake
 With direct-cut cable to work without control box



| Model No. | Max. Push Load (N) | Max. Pull Load (N) | Self-locking Ability (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|---------------|--------------------|--------------------|--------------------------|----------------------|-----------|---------------------|-----------|
| | | | | No Load | Full Load | No Load | Full Load |
| | | | | | | | |
| FD61-XX-A6... | 4000 | 4000 | 4000 | 6.4 | 4.2 | 0.8 | 3.8 |
| FD61-XX-A8... | 3000 | 3000 | 3000 | 8.5 | 5.9 | 0.7 | 3.5 |
| FD61-XX-AG... | 1500 | 1500 | 1500 | 16.2 | 11.9 | 0.7 | 3.4 |

MD57

Input: 24V DC
Max. Push Load: 4000N
Max. Pull Load: 4000N
Max. Speed at No Load: 12.6mm/s
Stroke: 50~300mm
Duty Cycle: 10%
Noise Level: ≤65dB

Min. Installation Dimension: 143mm+Stroke
Motor orientation can be adjusted in whole 360°
Option:
 Hall-effect sensor
 Potentiometer
 Limit switches
 IPX6 waterproof case
 12V high power motor



| Model No. | Input Voltage (V DC) | Max. Push/Pull Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|----------------|----------------------|-------------------------|----------------------|-----------|---------------------|-----------|
| | | | No Load | Full Load | No Load | Full Load |
| | | | | | | |
| MD57-X-24K4... | 24 | 3200 | 6.4 | 4.8 | 0.7 | 3.4 |
| MD57-X-24K6... | 24 | 2700 | 9.4 | 7.0 | 0.7 | 3.8 |
| MD57-X-24K8... | 24 | 2300 | 12.6 | 8.9 | 0.8 | 4.0 |
| MD57-X-12W4... | 12 | 4000 | 12.0 | 9.5 | 3.0 | 16.0 |



DLC1

Input: 24V DC
Max. Push Load: 2000N
Typical Speed at No Load: 10.9mm/s
Bending Moment: 500Nm (static) / 250Nm (dynamic)
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤50dB
IP Level: IPX4
Option:
 Hall-effect sensor
 IP Level: IPX6



| Model No. | Max. Push Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|----------------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | No Load | Full Load | No Load | Full Load |
| DLC1-24RH-350.750... | 2000 | 10.9 | 9.8 | 1.7 | 4.1 |

DLC2

Input: 24V DC
Max. Push Load: 2000N
Typical Speed at No Load: 18mm/s
Bending Moment: 1000Nm (static) / 750Nm (dynamic)
Stroke: 140 / 261 / 450mm
Duty Cycle: 10%
Noise Level: ≤53dB
Option:
 Hall-effect sensor



| Model No. | Max. Push Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|--------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | No Load | Full Load | No Load | Full Load |
| DLC2-24H6... | 2000 | 18 | 13 | 1.1 | 4.5 |

DLC5

Input: 24V DC
Max. Push Load: 4000N
Typical Speed at No Load: 8mm/s
Bending Moment: 2000Nm (static) / 1000Nm (dynamic)
Stroke: 260~840mm
Duty Cycle: 10%
Noise Level: ≤50dB
IP Level: IPX6
Option:
 Hall-effect sensor
 Cable outlet direction: top / bottom



| Model No. | Max. Push Load (N) | Typical Speed (mm/s) | | Typical Current (A) | |
|--------------|--------------------|----------------------|-----------|---------------------|-----------|
| | | No Load | Full Load | No Load | Full Load |
| DLC5-24FC... | 4000 | 8 | 6.7 | 1.5 | 5 |

CBT2

Input: 100 / 120 / 230 / 100 ~ 240V AC
Output: 29V DC (SMPS)
Output Rated Current: 3A (per channel)
Number of Actuator(s): 1~3
Number of Control(s): 1
Duty Cycle: 10%
Color: black or light grey RAL7001
Electric Shock Protection Level: Class I or Class II
 Over-current protection
 Emergency lowering function with backup batteries
 Detachable AC power cord
 Can be mounted on FD60



HC



HT

CB4M

Input: 110 / 230V AC
Output: 24V DC (EI transformer)
Output Rated Current: 3A (per channel)
Number of Actuator(s): 2~4
Number of Control(s): 1~2
Duty Cycle: 10%
Electric Shock Protection Level: Class I or Class II
 Over-current protection
 With charger function
Option:
 Rechargeable batteries 12V DC 1.3Ah*2
 Synchronization for 2~4 actuators
 Detachable AC power cord



H3F



CB2P

Input: 110 / 230V AC
Output: 29V DC (SMPS)
Output Rated Current: 3A (per channel)
Number of Actuator(s): 1~2
Number of Control(s): 1
Duty Cycle: 10%
IP Level: IP65
Electric Shock Protection Level: Class II
 Over-current protection
 Emergency lowering function with backup batteries
 Detachable AC power cord
 Can be mounted on MD60, MD66 and MD7



MD60+CB2P



H3T



HS12

CM23

Max. Input: 29V DC
Max. Output: 29V DC
Output Rated Current: 4A (1 channel), 6A (2 channels total)
Number of Actuator(s): 2
Number of Control(s): 1
Duty Cycle: 10%
IP Level: IPX6
 Over-current protection
Option:
 Built-in RF receiver



HS10



TX02

CM45

Input: 100~240V AC
Output: 29V DC (SMPS)
Output Rated Current: 5A in total
Number of Actuator(s): 1~4
Number of Control(s): 1
Duty Cycle: 10%
IP Level: IPX5
Electric Shock Protection Level: Class II (with functional earth)
 Over-current protection
 LED Power on indicator
 PTC overload protection
 Detachable AC power cord
 Can be mounted on MD66 and MK67



H3T



HS12



FS3

CM41

Input: 100~240V AC, 50 / 60Hz (SMPS)
Output: 32V DC, 5A@110V / 8A@240V
Number of Actuator(s): 1~4
Number of Control(s): 1
Duty cycle: 10%
IP Level: IPX6
 Over-current protection
 Detachable AC power cord
 Can be mounted on MK31 and MK31-QR
Option:
 Backup power through BTP3 battery box
 SB1 emergency stop button



H3T



HS12



FS3



MOTECK'S PROPRIETARY BUS SYSTEM

Supports customized functions and extended connections of assorted devices for homecare and medical beds!



CM41-M MOTECK Bus

Input: 100~240V AC
Output: 32V DC, 5A @110V / 8A @ 240V (SMPS)
Number of Actuator(s): 1~4
Number of Control(s): 1
Duty Cycle: 10%
IP Level: IPX6
Electric Shock Protection Level: Class II (with functional earth)
Standby Power: <0.5W
 Over-current protection
 FET control concept (no relay noise)
 Battery level display through dedicated controls
 Detachable AC power cord
 Can be mounted on MK31 and MK31-QR
Option:
 Backup power through BTP3 battery box



HS12-M



CP1



CP2

CB5P-M MOTECK Bus

Input: 100~240V AC
Output: 32V DC, 5A @110V / 8A @240V (SMPS)
Number of Actuator(s): 3~5
Number of Control(s): 1~2
Duty Cycle: 10%
IP Level: IPX5
Electric Shock Protection Level: Class I or Class II (with functional earth)
 Over-current protection
 Battery level display through dedicated controls
 Detachable AC power cord
Option:
 Rechargeable batteries 12V DC 1.3Ah *2



HS12-M



CP1



CP2



CBP2

Input: 100~240V AC
Output: 24V DC, max. 216VA
Power Supply: internal or external SMPS charger
Number of Actuator(s): 1~2
Number of Control(s): 1
Duty Cycle: 10%
IP Level: IP66 (internal SMPS) / IPX4 (external SMPS)
Electric Shock Protection Level: Class II
 Emergency stop button
 LCD display shows status info or error code
 Detachable AC power cord
 BTP1 battery box and CHP1 battery charger can be ordered separately
Option:
 LED indication of charging and usage status
 Lead-acid battery (5.0Ah) inside
 Charge with CBP2 control box, or charge with CHP1 battery charger



BTP1

CHP1



HTF



HS16



HS12L

CM42

Built-in battery charging power supply, input: 100~240V AC
Powered by lead-acid batteries, output: 24V DC, max 216VA
Number of Actuator(s): 1~2
Number of Control(s): 1
Duty Cycle: 10%
IP Level: IPX4
Electric Shock Protection Level: Class II
 Emergency stop button
 Backup lower down button
 Auto power off
 LED indication of charging and usage status
 Low voltage alarm
 Soft start
Option:
 Battery capacity 2.9Ah or 5Ah



HTF



HS16



HS12L

CM43

Input: 100~240V AC
Output: 24V DC, max. 216VA
Number of Actuator(s): 1~2
Number of Control(s): 1
Duty Cycle: 10%
IP Level: IPX4
Electric Shock Protection Level: Class II
 Auto power off
 Emergency stop button
 LED indicator of charging status and battery level
 Low voltage alarm
 Soft start
 BT43 battery box and CH43 charger can be ordered separately
Option:
 Battery capacity 2.9Ah or 5Ah



BT43

CH43



H2T



HS16



HS12L





HC

Motor Number to Control: 1, 2, 3, 4
Available Number of Buttons: 2, 4, 6, 8, 10
 LED power on indicator
 With hook
Option:
 Joint movement or synchronization for 2 motors



HF

Motor Number to Control: 1, 2, 3, 4
Available Number of Buttons: 2, 4, 6, 8, 10
IP Level: IPX4
 LED power on indicator
 With hook
Option:
 Joint movement for 2 motors
 Safety key



H3T-M MOTECK Bus

Motor Number to Control: 1, 2, 3, 4
Available Number of Buttons: 6, 8, 10
IP Level: IPX4
 LED power on indicator
 With hook



HS12-M MOTECK Bus

Motor Number to Control: 2, 3, 4, 5
Available Number of Buttons: 6, 8, 11, 12
IP Level: IPX6
 LED power on indicator
 With hook
Option:
 Button backlight
 Nurse lock



H3F

Motor Number to Control: 1, 2, 3
Available Number of Buttons: 2, 4, 6, 8
IP Level: IPX4 / IPX6
 Button backlight (blue)
 With hook
Option:
 Joint movement for 2 motors



HT

Motor Number to Control: 1, 2, 3, 4
Available Number of Buttons: 2, 4, 6, 8, 10
IP Level: IPX4 / IPX5
 LED power on indicator
 With hook
Option:
 Joint movement for 2 motors
 Nurse lock
 Safety key



CP1 MOTECK Bus

Available Number of Buttons: 21 max.
Number of LED Power on Indicator: 21 max.
IP Level: IPX6
 Battery level indicator
 With hook



CP2 MOTECK Bus

Available Number of Buttons: 29 max.
Number of LED Power on Indicator: 11 max.
IP Level: IPX6
 3.5" LCD display patient's weight and the status of bed
 With hook



H3T

Motor Number to Control: 1, 2, 3, 4
Available Number of Buttons: 2, 4, 6, 8, 10
IP Level: IPX4
 LED power on indicator
 With hook
Option:
 Joint movement for 2 motors
 2-level or 3-level nurse lock



HS12

Motor Number to Control: 1, 2, 3, 4
Available Number of Buttons: 2, 4, 6, 8, 10, 12
IP Level: IPX6
 LED power on indicator
 With hook
Option:
 Joint movement for 2 motors
 Nurse lock



FS1

Motor Number to Control: 1
Available Number of Buttons: 2
IP Level: IP54
Option:
 Color (RAL7035 or black)



FS3

Max. Motor Number to Control: 3
Max. Number of Pedals: 6
IP Level: IPX6





HTF

Motor Number to Control: 1, 2
Available Number of Buttons: 2, 4
IP Level: IPX5
 With hook
Option:
 Safety key



H2T

Motor Number to Control: 1, 2
Available Number of Buttons: 2, 4, 5
IP Level: IPX6
 LED indicators for power on, battery level,
 service reminder and overload alarm
 With hook



HS13

Motor Number to Control: 1, 2
Available Number of Buttons: 2, 4
IP Level: IPX6
 LED power on indicator
 With hook



HS15

Motor Number to Control: 2, 3
Available Number of Buttons: 6, 8
 LED indicator
 With hook
 Nurse lock
Option:
 Joint movement for 2 motors
 Color (light grey RAL7035 or black)
 Detachable cable set



HS12L

Motor Number to Control: 1, 2
Available Number of Buttons: 2, 4
IP Level: IPX6
 With hook
Option:
 LED indicators for overload and battery level



HS16

Motor Number to Control: 1~4
Available Number of Buttons: 2, 4, 6, 8, 10
IP Level: IPX4
 With hook or magnet



Control (2.4GHz)

HS10

Motor Number to Control: 2~4
Available Number of Buttons: 2, 4, 6, 8, 10
IP Level: IPX5
 With hook



HS20

Motor Number to Control: 1, 2
Available Number of Buttons: 2, 4
IP Level: IPX6
 LED power on indicator
 With hook



TX02

Motor Number to Control: 1, 2
Available Number of Buttons: 2
Battery: AAA*2
 LED operation indicator





SB1

Stop Button

IP Level: IPX6
One press cuts off the control box output power in an emergency
Turn the button to restore easily



ACLB

AC Lock Box

Input: 120 / 230V AC
Power Rating: 1000VA
IP Level: IP54
LED power on indicator
Option:
IP Level: IP65



BTP2-L

Battery Box

Output: 25.6V DC
Rated Output Current: 6A
IP Level: IPX6
Lithium ion batteries with capacity of 4Ah
Overload protection
Battery level indicator



BTP3

Battery Box

Output: 24V DC
Charging Input Voltage: 32V DC
IP Level: IPX6
1.3Ah Lead-acid battery
ON / OFF buttons
LED power on indicator
Compatible with CM41 / CM41-M



JB1 MOTECK Bus

Junction Box and Under Bed Light

Number of Connection Ports: 5
IP Level: IPX5
Option:
White LED for under bed light
Built-in RF receiver (2.4GHz)



JB3 MOTECK Bus

Junction Box

Number of Connection Ports: 8
IP Level: IPX6
Supports up to 5 ports for MOTECK Bus control
Supports up to 1 port for analog control
Supports up to 1 port for 5V DC lighting switch



SLS

Dual Switch

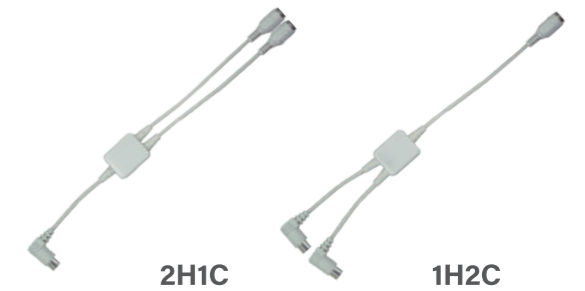
Available Number of Buttons: 2
IP Level: IPX5
Switch on / off actuator movement



Y Cable

Connection of additional handset or control bo

Option:
2H1C: 2 handsets work with 1 control box
1H2C: 1 handset works with 2 control boxes



FL2

Floor Light

Input: 5V DC
IP Level: IPX6
LED neutral white



JB50

Voice Control Box

Input Voltage: 5V
LED power on indicator
Built-in voice module
Support Chinese / English voice command
Option:
Customized voice command



BP21, BP22

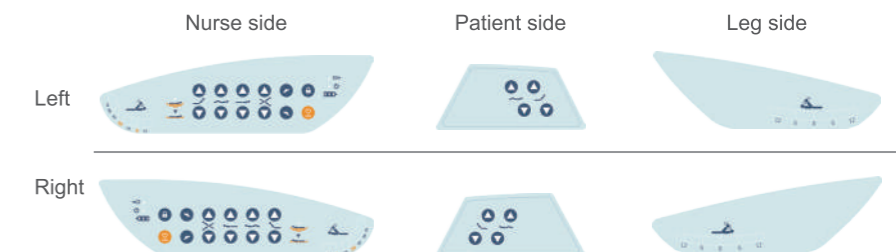
Bed Rails with Control (side / end)

Max. Number of Buttons:

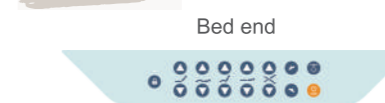
- Patient side: 4
- Nurse side: 12
- Bed end: 15

Plastic bed rails with embedded control board
Bed lift angle indication
LED indicators for power on, battery level, and low-position reminder

BP21



BP22



Motorized Wheel

Customized integration required!

Rated Voltage: 24V DC
Rated Current: 10A
Max. Load: 1500N
Rated Speed: 250 RPM ($\pm 5\%$)
Rated Torque: $\geq 5,5$ Nm
Peak Torque: 11 Nm
Wheel Diameter: 121 mm
IP Level: IP54
Weight : 3 kg
Tire Material: PU

For various mobile systems such as medical transfer devices, trolleys, automated systems, etc.
Can be controlled with CBP2 and wired control
Can be combined with 1 or 2 linear actuator(s) for movements



TW61

Input: 100~240V AC
Output: 29V DC (SMPS)
Max. Load: 2*6000N
Typical Speed at No Load: 5mm/s
Max. Number of Additional Actuators: 2 channels (24V DC)
Max. Number of Control: 1 channel
Stroke: 29~87mm
Duty Cycle: 10%
Noise Level: ≤ 55 dB
IP Level: IP43
Color: light grey (RAL7035) or black
Electric Shock Protection Level: Class II
Emergency lowering function
Option:
Position memory with Hall-effect sensors
IP Level: IP54



The information contained in this publication has been carefully taken to ensure the accuracy. However, it is the responsibility of the product user to determine the suitability for a specific application. There is no liability can be accepted for any loss or damage whether direct, indirect or consequential occurring out of the operation.

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