



MEDICAL APPLICATIONS

MOTECK[®]
MOTORIZE OUR WORLD





Five Function Bed

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



6000N Actuators



FD60



MD66



MK67



MK31

IPX4 up

Control



HT



HC

IPX4 up



HS12



H3T

Control Box



CB4M



CM41



CM45



CB4P

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 Pack



BTP1



BT43

Actuator for Legs (optional)



MD21



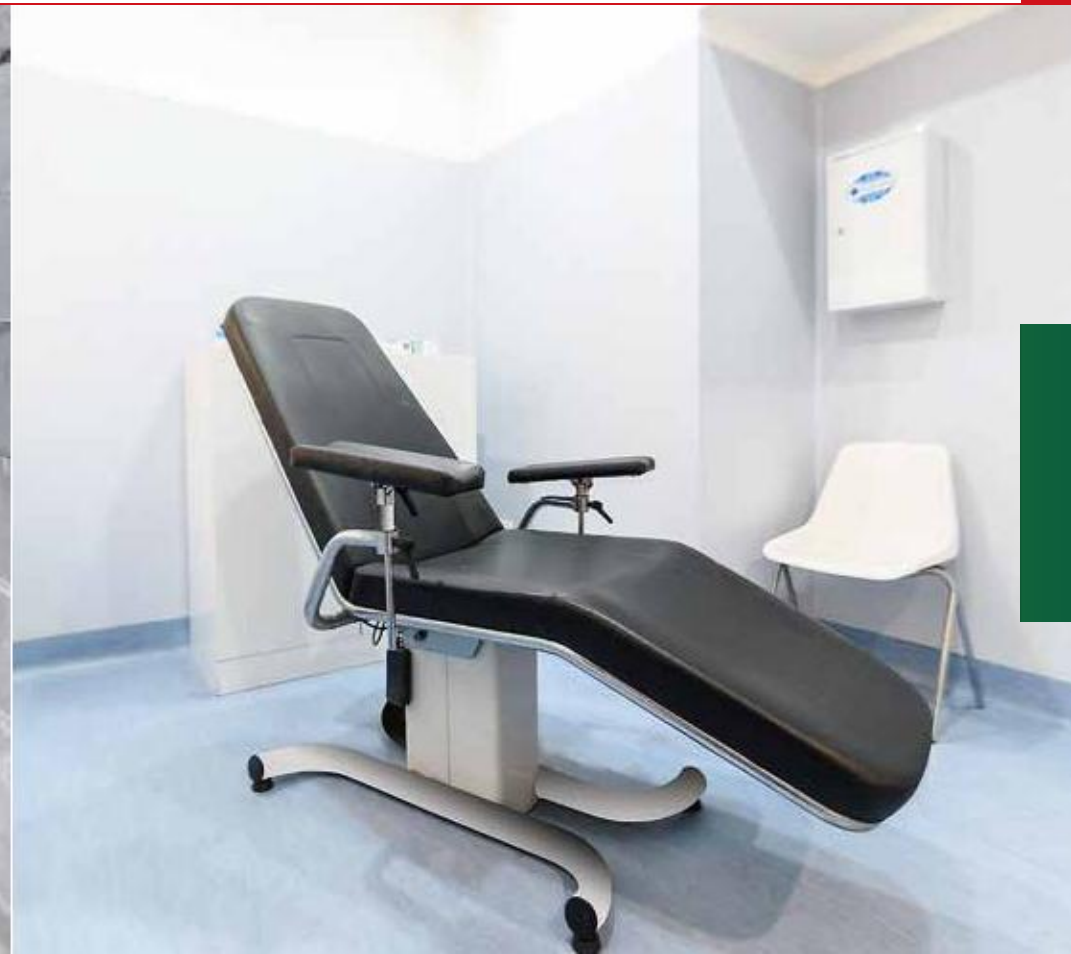
MK32



Electric Wheelchair



Treatment Chair



Actuator



FD60
Max. 6000N



MD57
Max. 4000N



MD51
Max. 3500N



MD82
Max. 8000N



MD60
Max. 6000N



MD66
Max. 6000N



MK67
Max. 6000N

Lifting Column



MK32
Max. 3500N



MD21
Max. 2000N



LD12
Max. 1500N



DLC1
Max. 2000N



DLC2
Max. 2000N



DLC3
Max. 4000N



LD3M

Input: 24V DC
Max. Push Load: 1000N
Max. Pull Load: 1000N
Max. Static Load: 2500N
Max. Speed at No Load: 43.9mm/s
Stroke: 50 / 100 / 150 / 200 / 250 / 300mm
Duty Cycle: 25%
Noise Level: ≤70dB

IP Level: IP54 (Static; non-action)
Min. Installation Dimension: 108mm+Stroke
Preset limit switches
Certified: EN60601, RoHS
Option:
 Potentiometer
 IP65 (Static; non-action)
Compatible Products:
 C15 clamp
 MB22 mounting bracket



Model No.	Max. Push / Pull Load (N)	Max. Static Load (N)	Typical Speed (mm/s)		Typical Current (A)	
			No Load	Full Load	No Load	Full Load
LD3M-XX-05-K3...	150	500	43.9	36.5	0.6	1.6
LD3M-XX-10-K3...	250	2500	27.6	23.5	0.6	1.6
LD3M-XX-20-K3...	500	2500	14.6	12.3	0.6	1.6
LD3M-XX-30-K3...	800	2500	9.5	7.5	0.6	1.6
LD3M-XX-40-K3...	1000	2500	7.0	5.5	0.6	1.6

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 (Static; non-action)
Min. Installation Dimension: 112mm+Stroke
Preset limit switches
Certified: CE, EMC directive 2014/30/EU
Option:
 Hall effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)



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	2.7	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	2.7	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 (Static; non-action)
Min. Installation Dimension: 115mm+Stroke
Preset limit switches
Certified: CE, EN60601
Option:
 Hall effect sensor
 Mechanical push only extension tube



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 (Static; non-action)
Min. Installation Dimension: 135mm+Stroke
Preset limit switches
Certified: CE, EMC directive 2014/30/EU, EN60601
Option:
 Hall effect sensor
Compatible Products:
 MB22 mounting bracket



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



MD50

Input: 24V DC
 Max. Push Load: 3500N
 Max. Pull Load: 2000N
 Max. Speed at No Load: 11.4mm/s
 Stroke: 50~600mm
 Duty Cycle: 10%
 Noise Level: ≤65dB

Min. Installation Dimension: 137mm+Stroke
 Preset limit switches
 Certified: CE, EN60601
 Option:
 Mechanical push only extension tube



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
MD50-24-A3...	3500	2000	5.0	3.8	0.8	3.8
MD50-24-F3...	2000	2000	11.4	9.0	0.9	3.5

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°
 Certified: CE, EN60601
 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-24K3. ...	24	4000	4.8	3.5	0.7	3.5
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

MD51

Input: 24V DC
 Max. Push Load: 3500N
 Max. Pull Load: 2000N
 Max. Speed at No Load: 11.4mm/s
 Stroke: 100~600mm
 Duty Cycle: 10%
 Noise Level: ≤65dB

IP Level: IP66 (Static; non-action)
 Min. Installation Dimension: 141mm+Stroke
 Preset limit switches
 Certified: CE, EN60601
 Option:
 Mechanical push only extension tube



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
MD51-24-A3...	3500	2000	5.0	3.8	0.8	3.8
MD51-24-F3...	2000	2000	11.4	9.0	0.9	3.5

FD60

Input: 12 / 24V DC
 Max. Push Load: 6000N
 Max. Pull Load: 4000N
 Max. Speed at No Load: 33.3mm/s
 Stroke: 50~300mm
 Duty Cycle: 10%
 Noise Level: ≤50dB

IP Level: IP42 (Static; non-action)
 Min. Installation Dimension: 160mm+Stroke
 Preset limit switches
 Compliant with: CE, EMC directive 2014/30/EU
 Certified: UL962, UKCA, RoHS
 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	
						12V	24V	12V	24V
FD60-XX-A4...	6000	4000	5000	4.2	2.9	1.2	0.6	5.4	2.7
FD60-XX-F4...	5000	4000	5000	5.5	4.4	1.2	0.6	5.6	2.8
FD60-XX-A6...	4000	4000	2500	6.2	3.8	1.2	0.6	5.6	2.8
FD60-XX-F8...	3000	3000	2000	11.0	8.2	1.2	0.6	5.8	2.9
FD60-XX-AG...	1500	1500	700	16.6	12.2	1.2	0.6	5.6	2.8
FD60-XX-KG...	750	750	0	33.3	23.5	1.2	0.6	5.4	2.7



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 (Static; non-action)
 Min. Installation Dimension: 170mm+Stroke
 Preset limit switches
 Certified: CE, EN60601
 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 (Static; non-action)
 Min. Installation Dimension: 170mm+Stroke
 Quick release function
 Preset limit switches
 Certified: CE, EN60601
 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 (Static; non-action)
 Min. Installation Dimension: 160mm+Stroke
 Preset limit switches
 Certified: CE, EN60601
 Option:
 Hall effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 Mechanical brake



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 (Static; non-action)
 Min. Installation Dimension: 155mm+Stroke
 Preset limit switches
 Certified: CE, EN60601, RoHS
 Option:
 Hall effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 QR2 quick release
 MR3 manual release
 IPX6 (Static; non-action)



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



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 (Static; non-action)
Min. Installation Dimension: 160mm+Stroke
Preset limit switches
Certified: CE, EN60601, RoHS, RCM
Option:
 Hall effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 Mechanical brake



MD7C



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

MK67

Input: 24V DC
Max. Push Load: 6000N
Max. Pull Load: 3000N
Max. Speed at No Load: 12.1mm/s
Stroke: 50~300mm
Duty Cycle: 10%
Noise Level: ≤50dB

IP Level: IPX5 (Static; non-action)
Min. Installation Dimension: 142mm+Stroke
Preset limit switches
Certified: CE, EN60601
Option:
 Hall effect sensor
 Mechanical push only extension tube



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
MK67-24-A6...	4000	3000	4000	6.1	4.1	0.4	2.9
MK67-24-A8...	3000	3000	3000	8.0	6.0	0.4	2.6
MK67-24-AC...	2000	2000	2000	12.1	9.1	0.4	2.4

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 (Static; non-action)
Min. Installation Dimension: 180mm+Stroke
Preset limit switches
Certified: CE, EN60601, RoHS
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
MD80-24DA6...	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: 1
Number of Additional Actuator: 2
 (except for own actuator)
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤53dB

IP Level: IPX4 / IPX5 (Static; non-action)
Min. Installation Dimension: 180mm+Stroke
Preset limit switches
Integrate with control unit and power supply
Certified: CE, EN60601
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-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



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 (Static; non-action)
Min. Installation Dimension: 210mm+Stroke
Preset limit switches
Certified: CE, EN60601, UL60601
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 (Static; non-action)
Min. Installation Dimension: 230mm+Stroke
Preset limit switches
Certified: CE, EN60601
Option:
 Mechanical push only extension tube
 Electrical push only function
 MR3 manual release
 IPX6 (Static; non-action)



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...	12000	6000	6.9	5.2	0.9	7.5

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 (Static; non-action)
Min. Installation Dimension: 177mm+Stroke
Preset limit switches
Certified: CE, EN60601, RoHS
Option:
 Hall effect sensor
 Mechanical push only extension tube
 Safety nut (in push direction)
 MR3 manual release



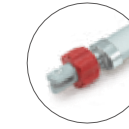
CM43



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	6000	4.1	3.1	0.6	4.2
MD82-24DA6...	8000	6000	6.0	3.9	0.6	5.4
MD82-24DA8...	8000	6000	8.2	4.8	0.6	6.3

LD12

Input: 12 / 24V DC
Max. Push Load: 1500N
Max. Pull Load: 1500N
Max. Static Load: 1800N
Max. Speed at No Load: 17.4mm/s
Stroke: 50 / 100 / 150 / 200 / 250 / 300 / 350 / 400mm
Duty Cycle: 10%

IP Level: IP66 / IP69K (Static; non-action)
Min. Installation Dimension: 183mm+Stroke
Material: All stainless steel SUS304 / Black coating steel case
Certified: CE, EMC directive 2014/30/EU, RoHS
Option:
 Hall effect sensor
Compatible products:
 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-M2...	600	19:1	17.4	11.7	0.5	0.25	3.6	1.8
LD12-XX27-M2...	1000	27:1	12.3	8.0	0.5	0.25	3.6	1.8
LD12-XX43-M2...	1500	43:1	7.5	5.0	0.5	0.25	3.6	1.8
LD12-2457-K2...	1500	57:1	3.5	2.3	N/A	0.2	N/A	0.8



CBT2

Input: 100 / 120 / 230 / 100~240V AC
Output: 24V DC (EI transformer) or 29V DC (SMPS)
Output Rated Current: 3A (per channel)
Number of Actuator: 1~3
Number of Control: 1
Duty Cycle: 10%
Color: Black or light grey RAL7001
Electric Shock Protection Level: I, II
Certified:
 CE, EMC directive 2014/30/EU,
 LVD 2014/35/EU, RoHS, FCC
 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: 2~4
Number of Control: 1~2
Duty Cycle: 10%
Electric Shock Protection Level: I, 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: 24V DC (EI transformer) or 29V DC (SMPS)
Output Rated Current: 3A (per channel)
Number of Actuator: 1~2
Number of Control: 1
Duty Cycle: 10%
IP Level: IP65
Electric Shock Protection Level: II
Certified: CE, EN60601
 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

CB4P

Input: 110 / 230V AC
Output: 24V DC
Power Supply: toroidal transformer 156W / 180W / 216W
Output Rated Current:
 3A per channel for CB4P
 4.5A per channel for CB4P-SY
 1 channel with 9A & 3 channels with 3A per channel for CB4P-HP
Number of Actuator: 3~4
Number of Control: 1~2
Duty Cycle: 10%
IP Level: IP54, IPX6
Electric Shock Protection Level: I
Certified: CE, EN60601
 Over-current protection
 With charger function
 Detachable AC power cord
Option:
 Rechargeable batteries 12V DC 1.3AH *2
 High power version (CB4P-HP)
 Synchronization for 2 actuators (CB4P-SY)



H3T



HS12



MD7C

Input: 100 / 120 / 230V AC
Output: 24V DC (EI transformer)
Output Rated Current: 3A per channel
Number of Actuator: 1~4
Number of Control: 1~2
Duty Cycle: 10%
IP Level: IPX4 / IPX5
Electric Shock Protection Level: I
Certified: CE, EN60601
 Over-current protection
 Emergency lowering function with backup batteries
 Detachable AC power cord
 Can be mounted on MD7



H3T



HS12

MD6C

Input: 100 / 120 / 230V AC
Output: 24V DC (EI transformer)
Output Rated Current: 5A (per channel)
Number of Actuator: 1~4
Number of Control: 1~2
Duty Cycle: 10%
IP Level: IPX5
Electric Shock Protection Level: II
Certified: CE, EN60601
 Over-current protection
 Emergency lowering function with backup batteries
 Detachable AC power cord
 Can be mounted on MD60 and MD66



CM45

Input: 100~240V AC
Output: 29V DC (SMPS)
Output Rated Current: 5A in total
Number of Actuator: 1~4
Number of Control: 1
Duty Cycle: 10%
IP Level: IPX5
Electric Shock Protection Level: II
Certified: CE, EN60601
 Over-current protection
 LED Power on indicator
 PTC overload protection
 Detachable AC power cord
 Can be mounted on MD66 and MK67



CM41

Input: 100 ~ 240V AC, 50/60Hz (SMPS)
Output: 32V DC, 5A@110V / 8A@240V
Number of Actuator: 1~4
Number of Control: 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





PROPRIETARY MOTECK 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: 1~4
Number of Control: 1
Duty Cycle: 10%
IP Level: IPX6
Electric Shock Protection Level: II
Standby Power: <0.5W
Certified: CE, EN60601
 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: 3~5
Number of Control: 1~2
Duty Cycle: 10%
IP Level: IPX5
Electric Shock Protection Level: I, II
Certified: CE, EN60601
 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: 1~2
Number of Control: 1
Duty Cycle: 10%
IP Level: IP66 (internal SMPS) / IPX4 (external SMPS)
Electric Shock Protection Level: II
Certified: CE, EN60601, UL60601
 Emergency stop button
 LCD display shows status info or error code
 Detachable AC power cord
 BTP1 battery pack 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

CM43

Input: 100~240V AC
Output: 24V DC, max. 216VA
Number of Actuator: 1~2
Number of Control: 1
Duty Cycle: 10%
IP Level: IPX4
Electric Shock Protection Level: II
Compliant with: CE, EN60601
 Auto power off
 Emergency stop button
 LED indication of charging and usage status
 Low voltage alarm
 Soft start
 BT43 battery pack and CH43 charger can be ordered separately
Option:
 Battery capacity 2.9Ah or 5Ah



BT43 CH43



H2T 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: 1~2
Number of Control: 1
Duty Cycle: 10%
IP Level: IPX4
Electric Shock Protection Level: II
Certified: CE, EN60601
 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

CM23

Max. Input: 29V DC
Max. Output: Same as max. input voltage
Output Rated Current: 4A (1 channel), 6A (2 channels total)
Number of Actuator: 2
Number of Control: 1
Duty Cycle: 10%
IP Level: IPX6
Certified: CE, EN60601
 Over-current protection
Option:
 Built-in RF receiver



HS12 TX02



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



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



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
 Compatible with CBP2 / CM42 / CM43
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
 Nurse lock



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



FS1

Motor Number to Control: 1
Available Number of Buttons: 2
IP Level: IP54
Certified: CE, EN60601, RoHS
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
 Compatible with CBP2 / CM42 / CM43
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
 Compatible with CM42 / CM43



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
 Compatible with CBP2 / CM42 / CM43
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, 6, 10
IP Level: IPX5
 With hook
 Compatible with CM23 / CM41 / CM45 / CB4P



JB50

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



TX02

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





FL2

Floor Light

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



SB1

Stop Button

IP Level: IPX6
 One push to stop all actuators in an emergency
 Turn the button to restore easily



BTP2-L

Battery Box

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

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



JB3 MOTECK Bus

Junction Box

Connection Ports: total 8
 IP Level: IPX6
 Support max. 5x ports for MOTECK Bus control
 Support max. 1x port for analog control
 Support max. 1x port for 5V DC lighting switch



SLS

Dual Switch

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



Y Cable

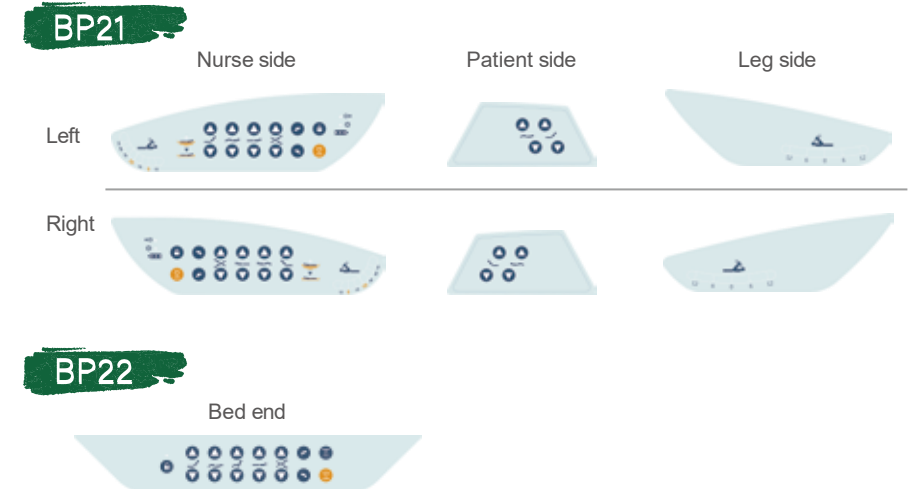
Connection of additional handset or control box
 Option:
 2H1C: 2 handsets work with 1 control box
 1H2C: 1 handset works with 2 control boxes



BP21, BP22

Bed Rails with Control (side / end)

Available Number of Buttons:
 • Patient side: 4
 • Nurse side: 12
 • Bed end: 15
 Plastic bed rails with embedded control board
 LED indicators for power on, battery level,
 and low-position reminder
 Bed lift angle indication





DLC1

Input: 24V DC
Max. Thrust: 2000N
Typical Speed at No Load: 10.9mm/s
Bending Moment: 500Nm (static) / 250Nm (dynamic)
Stroke: 50~400mm
Duty Cycle: 10%
Noise Level: ≤ 50 dB
IP Level: IPX4
Certified: CE, EN60601
Option:
 Hall effect sensor
 IP Level: IPX6



Model No.	Max. Push (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

DLC3

Input: 24V DC
Max. Thrust: 4000N
Typical Speed at No Load: 16mm/s
Bending Moment: 2000Nm (static) / 1000Nm (dynamic)
Stroke: 260~1200mm
Duty Cycle: 10%
Noise Level: ≤ 65 dB
IP Level: IPX6
Option:
 Hall effect sensor



Model No.	Max. Push (N)	Typical Speed (mm/s)		Typical Current (A)	
		No Load	Full Load	No Load	Full Load
DLC3-24FC...	4000	16	13	1.4	8.7

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: Black
Electric Shock Protection Level: II
Certified:
 CE, EMC directive 2014/30/EU,
 LVD 2014/35/EU
 Emergency lowering function
Option:
 Position memory with Hall effect sensors
 Color: Light grey (RAL7035)
 IP Level: IP54



TW61-RMS

Input: 100~240V AC
Output: 29V DC (SMPS)
Max. Load: 2*6000N
Typical Speed at No Load: 5mm/s
Stroke: 29~87mm
Duty Cycle: 10%
Noise Level: ≤ 55 dB
IP Level: IP43
Color: Black
Electric Shock Protection Level: II
 Synchronization function
 Built-in RF receiver
 Memory function
 Massage function
 Emergency lowering function



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