

Oskoyi Ballbearing

Actuator MD100

MD100 is quiet and powerful actuator up to 10,000N thrust, designed for variety of medical and home care applications such as patient lift and medical bed.

Feature

- Main applications: Homecare, medical
- Input voltage: 24V DC
- Max. load: 10,000N (push) / 6,000N (pull)
- Max. speed at no load: 9 mm/sec
- Max. speed at full load: 6.7 mm/sec @ 10000N
- Stroke: 100 ~ 600 mm
- Max. current: 8.2A @ 24V DC
- Noise level: ≦52dB
- IP Protection level: IPX4
- Preset limit switches
- Aluminum outer tube
- Stainless extension tube
- Color: Light gray RAL 7035
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Ambient operation temperature: +5°C ~ +40°C
- Certified: CE Marking, EMC Directive 93/42/EEC

site: www.10BC.com

Email: Borhan772000@yahoo.com





(اسکو صنعت تاوریژ)



Option

- Mechanical push only extension tube
- Safety nut (in push direction)
- QR2 quick release: To retract actuator quickly by pinching the QR2 grip while emergency.
- MR2 manual release: To retract actuator slowly and put down the patient safely by turning the MR2 knob with hand when losing power in the application of patient hoist.
- IPX6 Protection level



Fig. 1 QR2 quick release



Fig.2 MR2 manual release

Compatibility

Product	Model	MD100 spec			
Control box	CBP2, CBP3	Phone jack(Ø6.35mm) with Moteck J1 or J2 type plug			
	CB4P-HP, CB4P-HP-SY	Phone jack(Ø6.35mm) with Moteck J2 type plug			



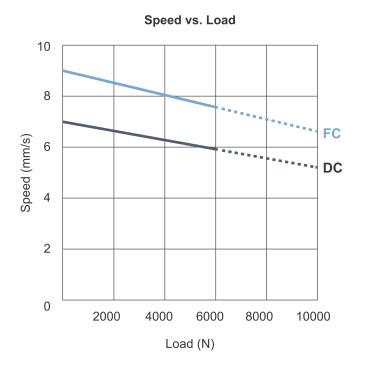


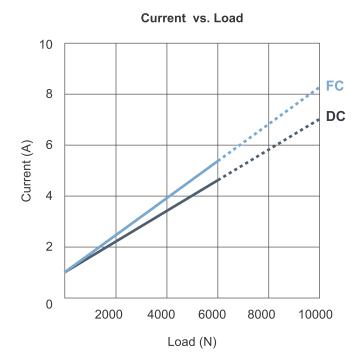
Oskoyi Ballbearing

Performance Data

Model No.	Push Max. (N)	Pull Max. (N)	Typical speed (mm/s)		Typical current (A) @ 24V		
			No load	Full load	No load	Full load	
MD100-24 DC -XXX.XXX-XX	10,000	6,000	7.0	5.2	1.0	7.0	
MD100-24FC-XXX.XXX-XX	10,000	6,000	9.0	6.7	1.0	8.2	

Note 1: Within the stroke range of 150 mm (refer to Table 1)





Push / Pull Load —

Push Load ---

Table 1 Maximum push load VS. stroke

Spec of stroke	At actual stroke position (mm)						
(mm)	150	200	300	400	500	600	
200	10,000	8,000	-	-	-	-	
300	10,000	10,000	5,000	-	-	-	
600	10,000	10,000	10,000	9,000	6,000	5,000	

Unit: N

site: www.10BC.com



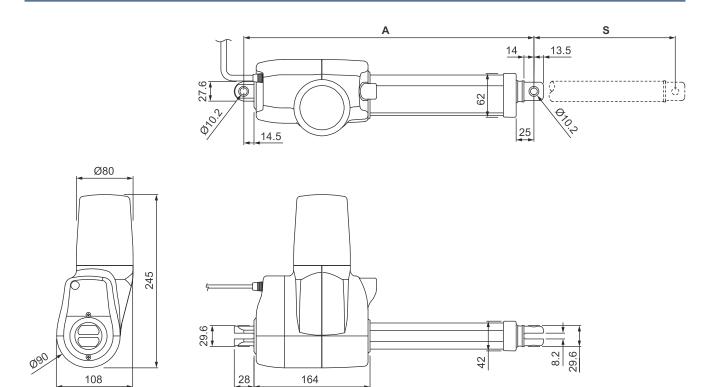


بلبرينگ اسكوئي

(اسکو صنعت تاوریژ)



Dimensions



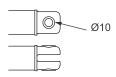
Front connector	Retracted length (A)			
Standard	A ≧ S + 210 mm			
Option (QR2 / MR2)	A ≧ S + 267 mm			

Available stroke (S) range = 100 ~ 600 mm

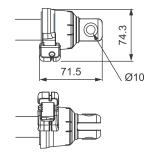
Front Connector

Standard

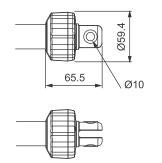
(Zinc alloy clevis with plastic bushing)



With QR2 quick release



With MR2 manual release



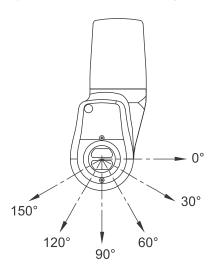




Oskoyi Ballbearing

Rear Connector

Zinc alloy clevis with plastic bushing, with following orientation options.



Cable Plug

MOTECK Phone jack(Ø6.35 mm) plug



site: www.10BC.com

Email: Borhan772000@yahoo.com





(اسکو صنعت تاوریژ)



Ordering Key

	MD100 - 24	4 DC - 310	. 410 - 1	0 0	0	6 4	1
Input voltage	24 : 24V DC						
Motor and Spindle type	DC FC (Refer to Performance Data)						
Retracted length	XXX (Refer to Dimensions)				ı		
Extended length	XXX (Refer to Dimensions)						
Front connector	1: Zinc alloy clevis with plastic bushing (Refer to Dimensions)						
Pivot orientation of Rear connector	Zinc alloy clevis with plastic bus 1: 0° 3: 30° 9: 90° C: 120	6:	orientation option 60° 150°	ons			
Option	O: None S: Safety nut P: Push only + Safety nut M: MR2 Manual release + Push only + Safety nut Q: QR2 Quick release + Push only + Safety nut (Note: Single selection is available)						
Reserved	0: No meaning						
Color	G: Light gray RAL 7035						
IP Protection level	4 : IPX4 6 : IPX6						
Cable	Phone jack J1 type plug 1: 300 mm straight 2: 1000 mm straight 3: 400 mm coiled (Refer to page 5)	Phone jack J2 typ A: 300 mm straigh B: 1000 mm straig C: 400 mm coiled	nt				

