

Actuator MD50

MD50 is a compact actuator providing up to 3500N thrust, which is suitable for limited installation space. It's designed for use in a variety of medical care application, such as patient hoists or stand-up lifts.



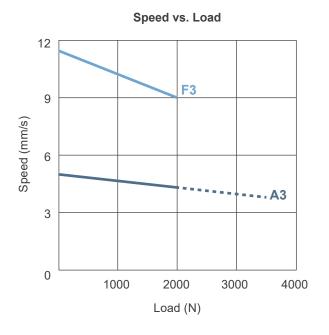
Features and Options

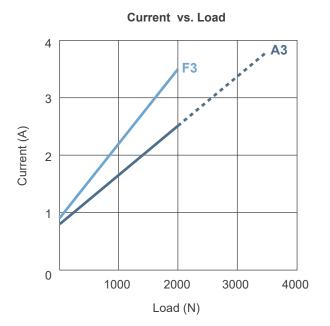
- Main applications: Medical Care
- Input voltage: 24V DC
- Max. load: 3500N (push) / 2000N (pull)
- Max. speed at no load: 11.4 mm/sec (Typical value)
- Max. speed at full load: 3.8 mm/sec (Typical value @ 3500N Loaded)
- Stroke: 50 ~ 600 mm - Noise level: ≦65dB
- Color: Black
- Present limit switches
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Ambient operation temperature: -20°C ~ +60°C
- Certified: CE Marking, EN 60601-1, EN 60601-1-2, IEC 60601-1, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-8
- Optional mechanical push only extension tube

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Performance Data

Model No.		Pull Max.	*Typical speed (mm/s)		*Typical current (A) @ 24V	
	(N)	(N)	No load	Full load	No load	Full load
MD50-24- A3 -XXX.XXX-CXX	3500	2000	5.0	3.8	0.8	3.8
MD50-24- F3 -XXX.XXX-CXX	2000	2000	11.4	9.0	0.9	3.5





Push / Pull Load —

Push Load ---

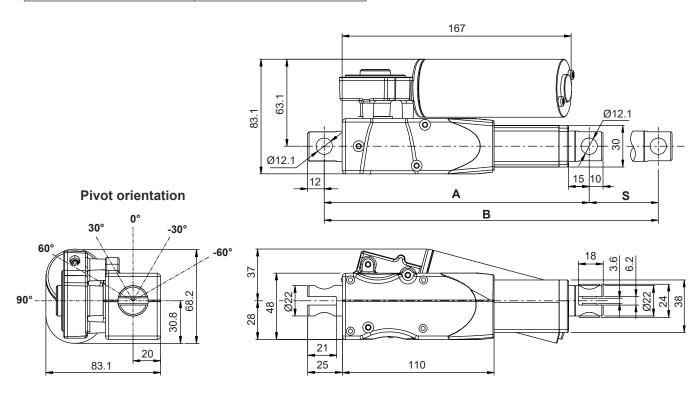
Remarks:

* The typical speed or typical current means the average value neither upper limit nor lower limit. The performance curves are made with typical values.

Dimensions

- Available stroke (S) range = 50 \sim 600 mm
- Extended length (B) = (S) + (A)

Stroke (S)	Retracted length(A)		
≦55 mm	192mm (±3mm)		
≦300 mm	S+137mm (±3mm)		
>300 mm	S+156mm (±3mm)		



• Front Connector

1: Slot with bushing 2: Slot w/o bushing 4: Solid with bushing 5: Solid w/o bushing 6: Solid w/o bushing







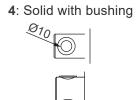


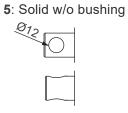


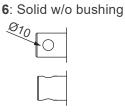
• Rear Connector

1: Slot with bushing 2: Slot w/o bushing







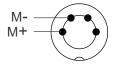


Compatibility

Product	Model	Compatible requirement		
	СВЗТ	- With Moteck F-type 4-pin DIN plug		
Control box	CBP2, CBP3	- Phone jack(ø6.35mm) with Moteck J1-type or J2-type plug		
	CM42	- Phone jack(ø6.35mm) with Moteck J1-type plug		

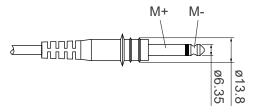
Plug type

• Moteck F-type DIN plug

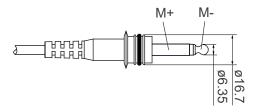


4-pin DIN plug

• Moteck J1-type phone jack



• Moteck J2-type phone jack





Connect Pin (M+) to "+" & Pin (M-) to "-" of DC power, the actuator will extend.



Cable with Flying Leads

	Wire color	Definition	Comments	
Power	Red		Connect red wire to "Vdc +" & black wire to "Vdc -" of DC power to	
wires Black	DC power	extend the actuator. Switch the polarity of DC input to retract it.		

