

JC35EM2 Lifting column

1. JC35EM2 is a 2-stage square column for vertical lifting to high-end medical applications, such as hospital beds, nursing beds, physiotherapy tables and dental chairs. It offers different built-in dimensions of profiles: JC35EM2-A, JC35EM2-B and JC35EM2-C.
2. JC35EM2 column is also widely applied to workstation applications such as computer workstation, industrial benches or kitchens.



Features And Options

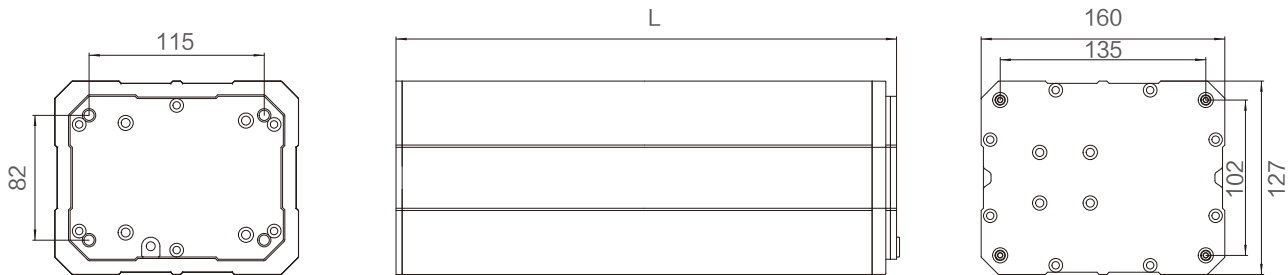
Dynamic Load Push(N):	JC35EM2-A/B: 4000N 3000N 2000N 1500N 1000N JC35EM2-C: 6000N 4000N 3000N 2000N 1500N 1000N
Colour:	Black/White/Anodized Aluminum
Stroke Length:	100-600mm±3 (optional >600mm)
Installation Dimension:	General: L=S+200 (S<400), L=S+220 (400 ≤ S<600) Special configuration: L=S+250 (S>600)
Noise Level:	JC35EM2-A/B: ≤55dB (environmental noise ≤45dB) JC35EM2-C: ≤60dB (environmental noise ≤40dB)
Optional:	Hall sensor
Limit Switch:	Built-in (electronic)
Weight:	about 21.5kg at installation dimension of 950; (different stroke length and installation dimensions with different weight)
Static Bending Moment:	500N·m
Approval:	IEC60601-1: 2021 ; EN 60601-1: 2006+A12:2014; ANSI/AAMI ES60601-1: 2005/(R)2012 and A1: 2012, C1: 2009/(R)2012 and A2: 2010/(R)2012

Usage

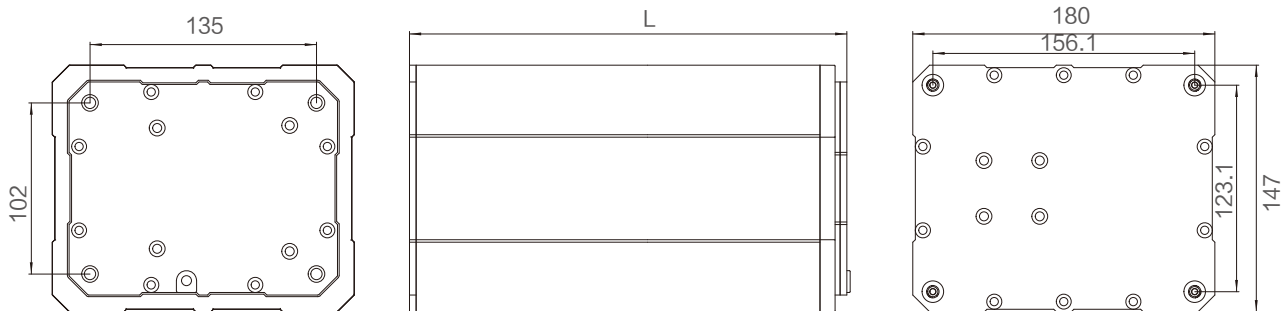
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5 °C to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JIECANG control box
Relative Humidity:	20% to 90% at 30 °C, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

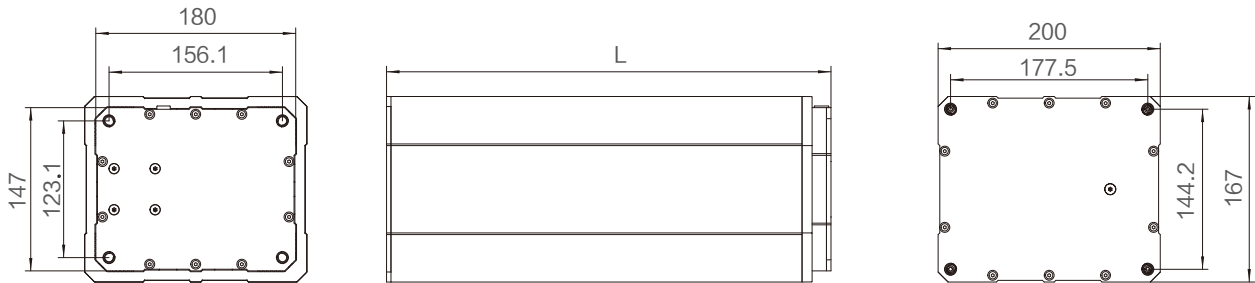
JC35EM2-A



JC35EM2-B



JC35EM2-C



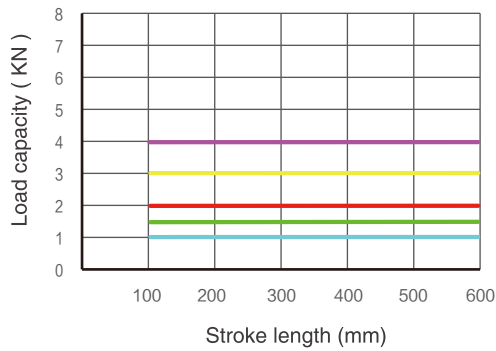
Technical Specifications (Standard Value)

Specification	Input voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Mechanical self-locking (N)	Speed at no load/full load (mm/s)	Current at full load (A)	Note
A/B	No load 24V Full load 24V	20	1000	≥1000	20/15	≤5.0	
		16	1500	≥1500	16/12	≤6.0	
		12	2000	≥2000	12/10	≤6.0	
		7.5	3000	≥3000	7.5/5	≤6.0	
		5	4000	≥4000	5/4	≤6.0	
A	No load 12V Full load 12V	12	2000	≥2000	12/9	≤10.0	No-Load Noise ≤60dB
B	No load 29V Full load 24V	4	3000	≥3000	14.5/9	≤5.0	No-Load Noise ≤50dB
C	No load 24V Full load 24V	12	1000	≥800	30/21	≤4.5	No-Load Noise ≤55dB
	No load 29V Full load 24V	12	1000	≥1000	40/22	≤4.5	
		7.5	1500	≥1500	25/13	≤4.5	
		5	2000	≥2000	16/9.5	≤4.5	
	No load 24V Full load 24V	5	2000	≥2000	22/18	≤8.0	
	No load 29V Full load 24V	7.5	3000	≥3000	12/6.5	≤4.5	
		5	4000	≥4000	8.2/4.2	≤4.5	
		7.5	4000	≥4000	12/6.2	≤4.5	
	No load 24V Full load 24V	5	4000	≥4000	12/8	≤9.0	
	No load 29V Full load 24V	4	6000	≥6000	6/3.3	≤6.0	
		3	6000	≥6000	6/3	≤8.0	

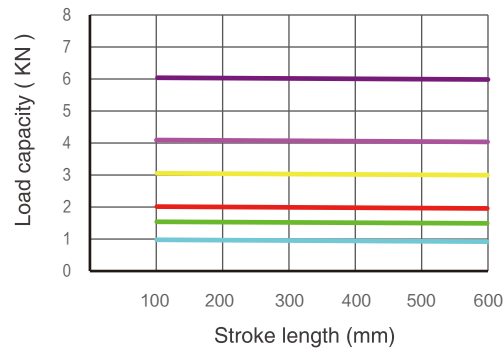
Remarks: It can achieve better self-locking ability with Jiecang control box;
The above data is the standard value of the test data (inspection specification) at room temperature of 25°C.

Diagram of relationship between stroke length and load

JC35EM2-A/B



JC35EM2-C

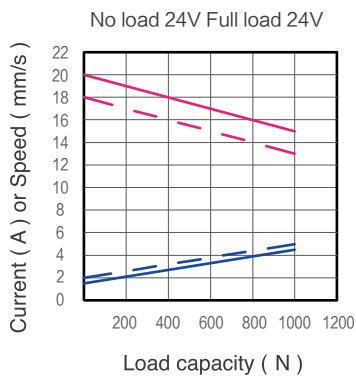


Characteristic Curve

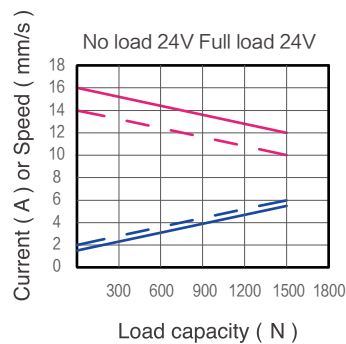
JC35EM2-A/B

Typical speed ———
Min. speed - - - - -
Typical current ———
Max. current - - - - -

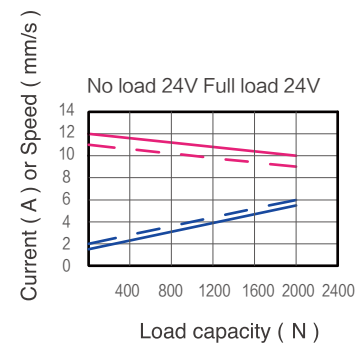
1000N



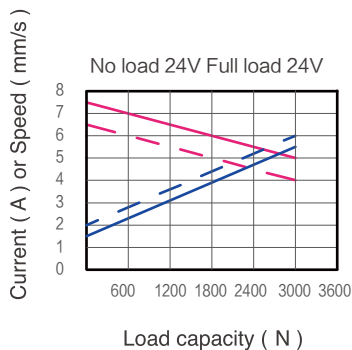
1500N



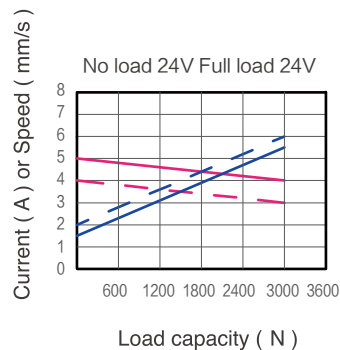
2000N



3000N

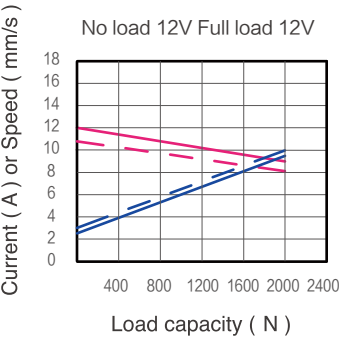


4000N



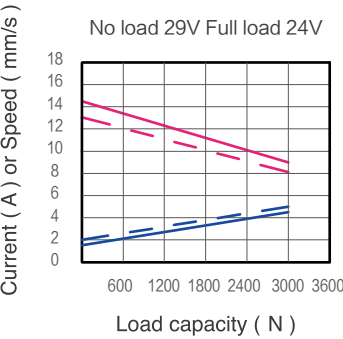
JC35EM2-A

2000N



JC35EM2-B

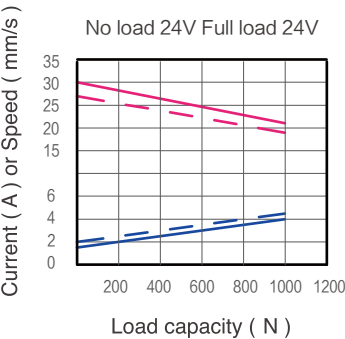
1500N



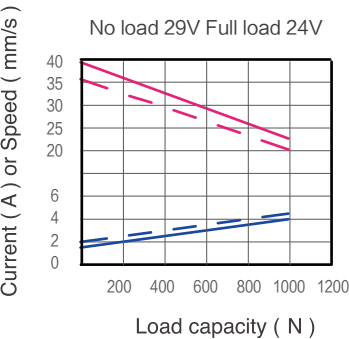
Typical speed ———
Min. speed - - - - -
Typical current ———
Max. current - - - - -

JC35EM2-C

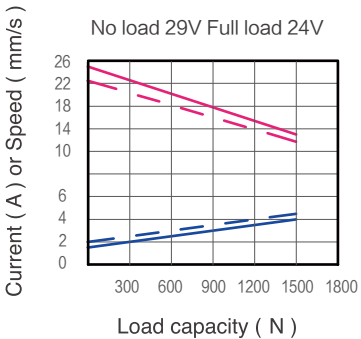
1000N



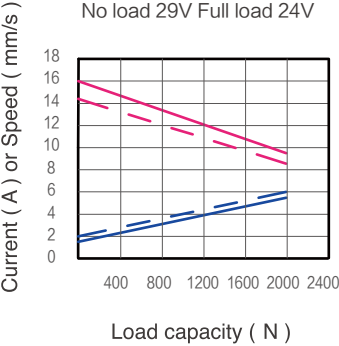
1000N



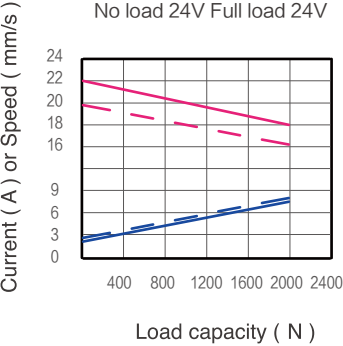
1500N



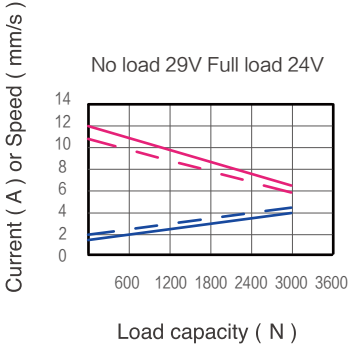
2000N



2000N



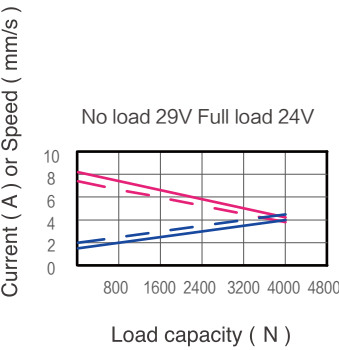
3000N



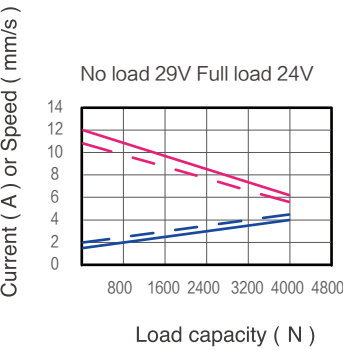
JC35EM2-C

Typical speed ———
Min. speed - - - - -
Typical current ———
Max. current - - - - -

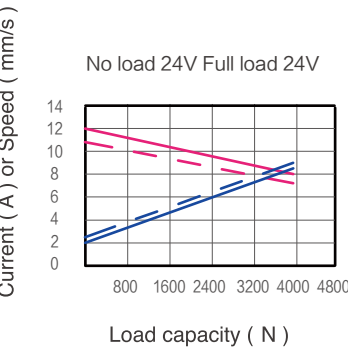
4000N



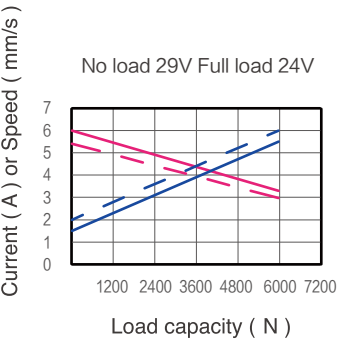
4000N



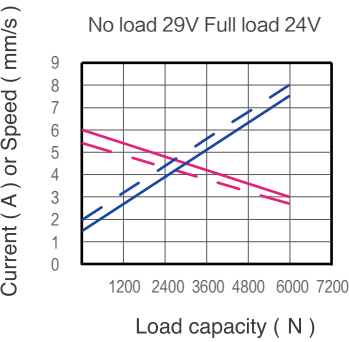
4000N



6000N



6000N



Ordering Key

Take **JC35EM20A21824700/95000022D010B** as an example

Model	JC35EM2	
Optional features	X	0 = Standard / Y = Hall sensor
Profile code	X	A:1#,2# / B:2#,3# / C:3#,4#
Load in push	X	6=6000N / 4=4000N / 3=3000N / 2=2000N / 1D5=1500N / 1=1000N
Speed at full load	XX	3=3mm/s / 3D3=3.3mm/s / 4=4mm/s / 4D2=4.2mm/s / 5=5mm/s 6D2=6.2mm/s / 6D5=6.5mm/s / 8=8mm/s / 9=9mm/s / 9D5=9.5mm/s 10=10mm/s / 12=12mm/s / 13=13mm/s / 15=15mm/s / 18=18mm/s 21=21mm/s / 22=22mm/s
Input voltage	XX	24=24VDC / 29=29VDC
Stroke length Installation dimensions	XXX/XXX	Stroke length=XXX Installation dimensions =XXX
Mounting plate code	X	0=Standard
Cable outlet	X	0: Top side outlet 1: Top mounting plate outlet
Type of connector and cable	X	00: MIC connector 02: 4 Pin Din connector 06: 4 Pin Din elbow connector 10: 5 Pin Din connector 14: 2-core straight cable without connector 21: 6 Pin Mini-Fit connector 93: 6 Pin Mini-fit elbow connector
Cable length	XXX	1D5=1.5m / 2D0=2m
Surface treatment	XX	7: Mirror anodized treatment 10: Plastic spraying treatment 11: Drawing anodized treatment 12: Ordinary anodized treatment
Colour	X	B=Black / W= Milky white / G=Gray



Strictly abiding by medical safety certifications

Passed EMC tests. To ensure our products pass all kinds of tests domestic or abroad.



Communication protocol development

Aiming at different applications, develop more extensive functions for control system.



Professional customization

Powerful R&D strength, fully satisfy customers' needs. Development cycle is about 10 days, seizing more market opportunities



Intelligent Control of Bluetooth

Mobile phone as the remote, applying in home care. Market pioneer, Jiecang provides better choices



Wireless Communication

Controllers adopt high-frequency wireless system. It can avoid interference mixing with signal receivers, assisting in remote control over medical equipment.



Latest Weighing System

Designed for physiotherapy beds and medical care beds. Cantilever carrying weighing sensor, it is applicable to different bedsteads dispensing with any adjustment

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Notes for mounting and usage can be found in the corresponding mounting manual