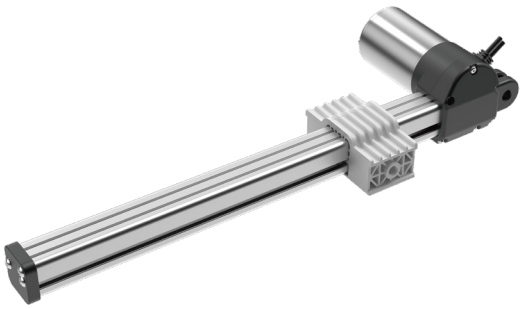
JC35J1 Linear Actuator

Application field - Home Line
Preferably in home care applications

JC35J1 is a rail type actuator with small-size and low noise. JC35J1 has 2 versions: standard and silent version. It enables JIECANG to offer a preferable product for smart furniture market such as smart leisure chairs, massage chairs, and etc. With built-in thermostat in motor, it will protect actuator from overheat damages.



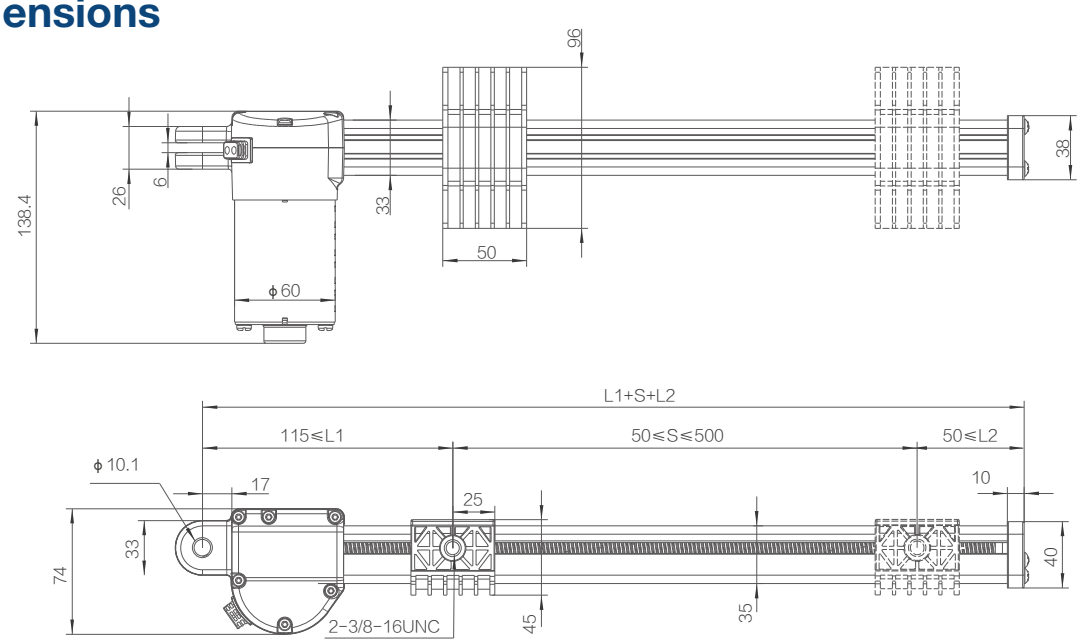
Features And Options

Dynamic Load Push(N):	2000
Dynamic Load Pull (N):	1500
Colour:	Black
Protection Class:	IP20
Stroke Length(mm):	50≤S≤500
Installation Dimension:	L=L1+S+L2
Noise Level:	standard≤50dB (environmental noise ≤40dB); Silent version ≤42dB (environmental noise ≤30dB)
Optional:	Hall sensor
Limit Switch:	Built-in (electronic)
Weight:	About 2kg (different stroke / installation dimension with different weight)
Static Bending Moment:	Lateral load is not allowed
Approval:	CE:EN60335-1:2012+A11+A13+A1+A14+A2 EN62233:2008 UL:UL 1004-1, 2nd Ed., Issue Date: 2012-09-19, Revision Date: 2020-11-05, UL 1004-3, 2nd Ed., Issue Date: 2015- 02-27, Revision Date: 2018-01-31

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:	Under 30°C, 20% to 90%, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

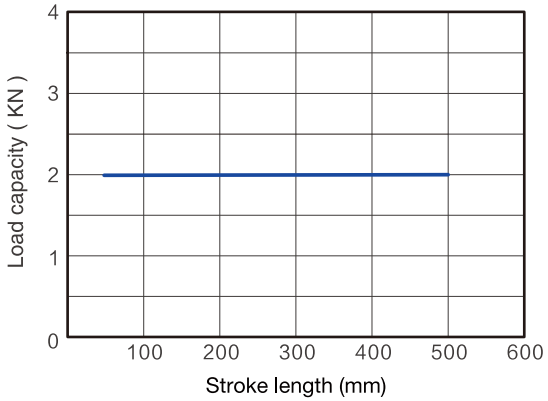


Technical Specifications (Standard Value)

Input voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-locking (N)	Speed at no load/full load (mm/s)	Current at full load (A)	Remark
24	5	2000	1500	1500	16.7/12	≤4.8	Standard J1
24	4	2000	1500	1500	12/8	≤4.0	Silent version J1-1

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.

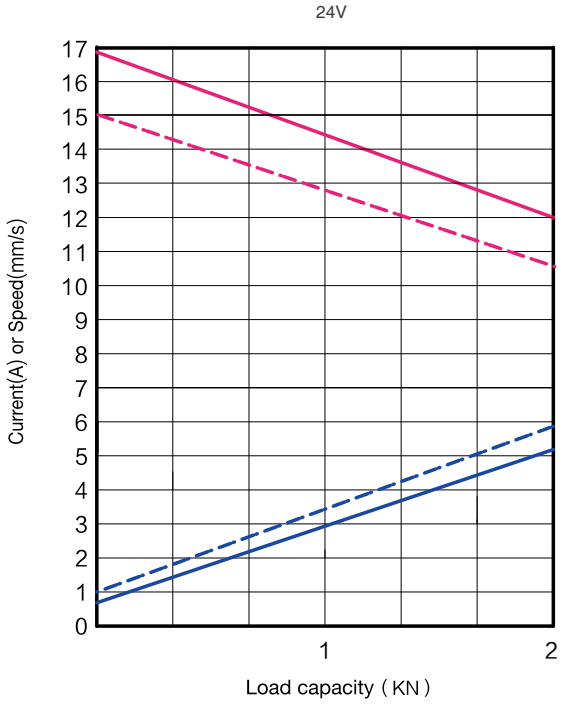
Diagram of relationship between stroke length and load



Characteristic Curve

Typical speed
Min. speed
Typical current
Max. current

2000N



Ordering Key

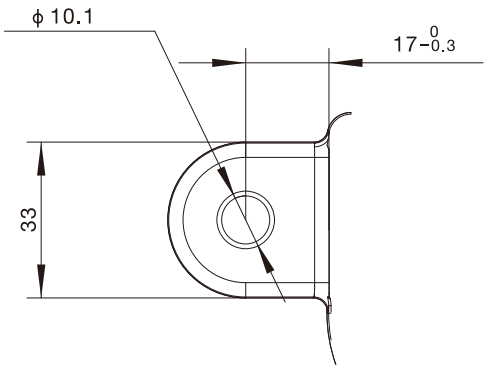
Take **JC35J1021224265/160HB28S4201141D5** as an example

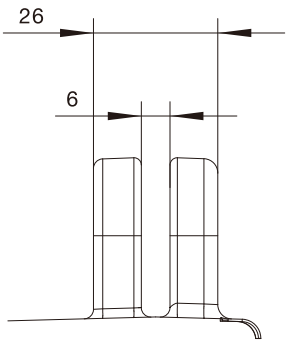
Model	**JC35J1**	
Optional features	**X**	0 = Standard / Z= Single Hall sensor / Y= Dual Hall sensors
Load in push	**X**	2=2000N
Speed at full load	**XX**	8=8mm/s
Input voltage	**XX**	24 = 24VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Installation dimension = XXX
Clevis directions	**X**	H=horizontal (to motor direction)
Colour	**X**	B = Black
End clevis specification	**XX**	B28= Integrated with gearbox, hole 10.1
End clevis material	**X**	S = Plastic
Front clevis specification	**XX**	F42=plastic top clevis (Integrated with plastic nut) 3/8-10UNC Inch thread
Brake specification	**X**	0 = Standard
Type of connector and cable	**XXX**	21 = 6 Pin Mini-fit connector
Cable length	**XXX**	1D0 = 1m / 1D5 = 1.5m

Ordering Details

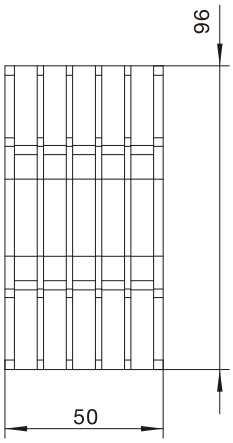
Dimensions of clevis

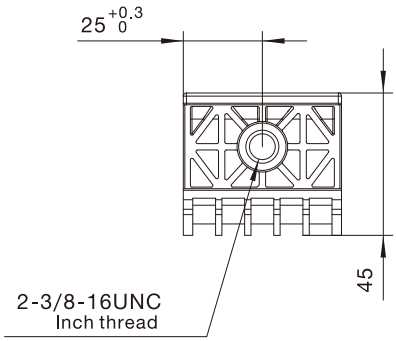
End clevis: B28





Front clevis: F42



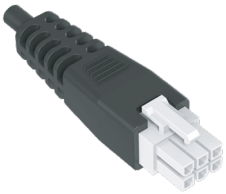


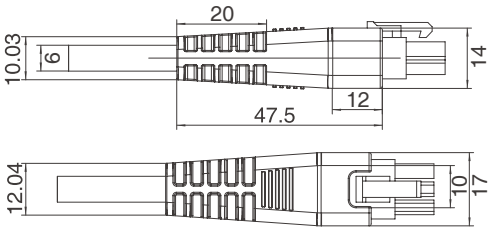
Motor cable

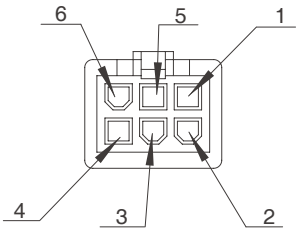
6 Pin Mini-Fit connector

Supporting control box :
JCB35H7A1

Pin	ColoUr	Function
1	Red	5V
2	Brown	power with positive voltage, actuator going down
3	Black	GND
4	Blue	power with positive voltage, actuator going up
5	Yellow	Hall sensor signal 1
6	Orange	Hall sensor signal 2







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

TECHNOLOGY
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