JIECANG

JC35L29 Linear Actuator

Application field - Medical Line
Preferably in homecare nursing or medical beds

As an elegant but powerful actuator, JC35L29 is a preferable offer for medical & care line. It is widely applied to applications like dental chair, hospital beds and couches with its load up to 8000N.
JC35L29 can perform at 8000N during stroke 0-200mm.



Features And Options

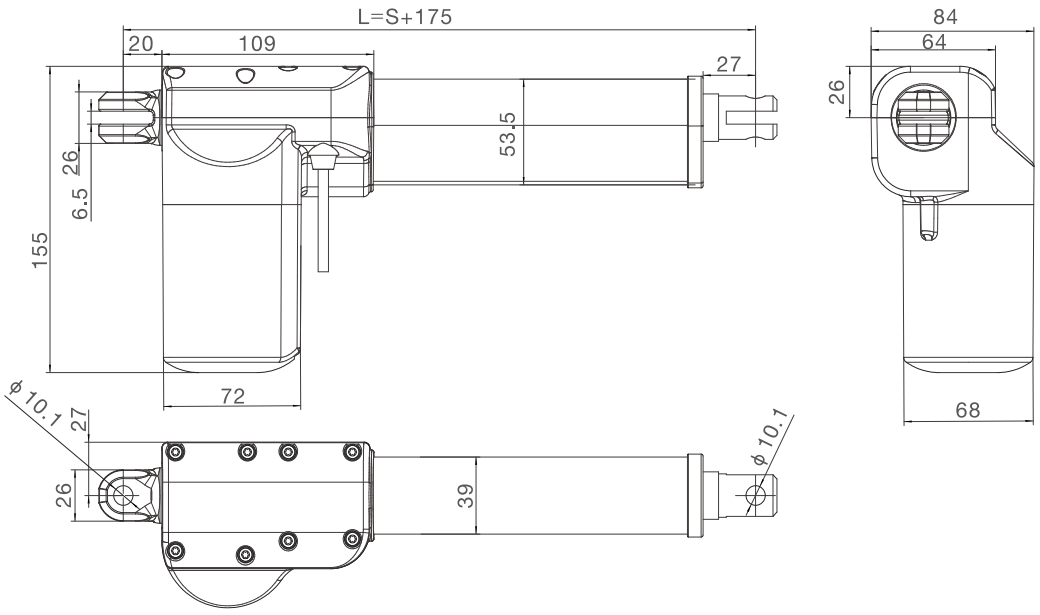
Dynamic Load Push(N):	8000
Dynamic Load Pull(N):	4000
Colour:	Gray
Protection Class:	Max.IPX6
Stroke Length:	50-250mm
Installation dimension:	L=S+175(50≤S≤200) L=S+185(200<S≤250)
Noise Level:	≤48dB (environmental noise≤40dB)
Standard:	Mechanical end stop
Optional:	Reed switch, Hall sensor, Signal switch
Limit Switch:	Built-in (electronic)
Weight:	About 2kg(based on different stroke)
Static Bending Moment:	Lateral load is not allowed
Approval:	IEC60601-1: 2012 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

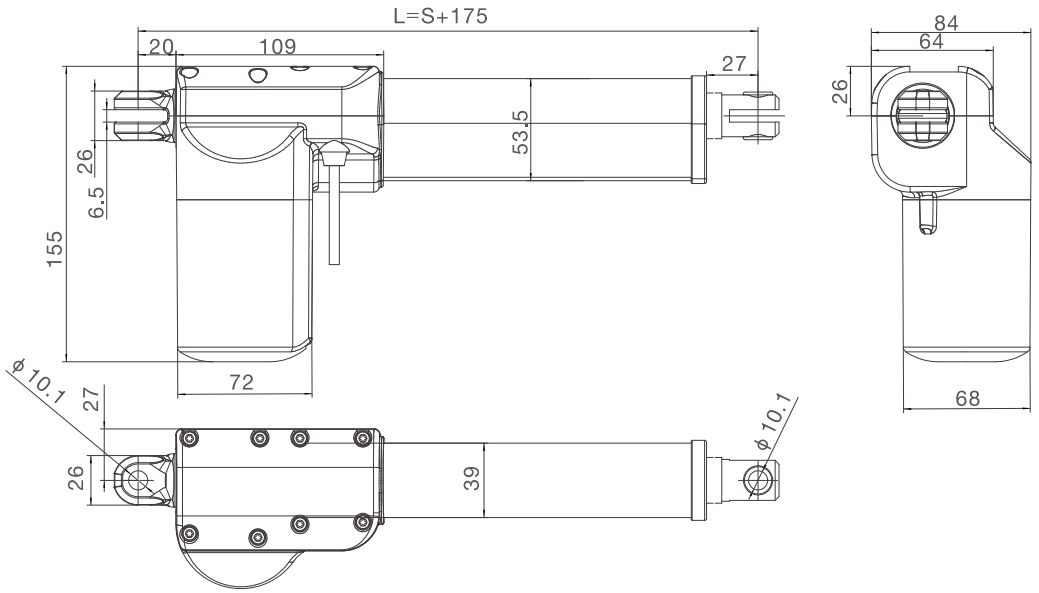
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5°C to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JIECANG control box
Relative Humidity:	Under 30°C, 20% to 90%, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

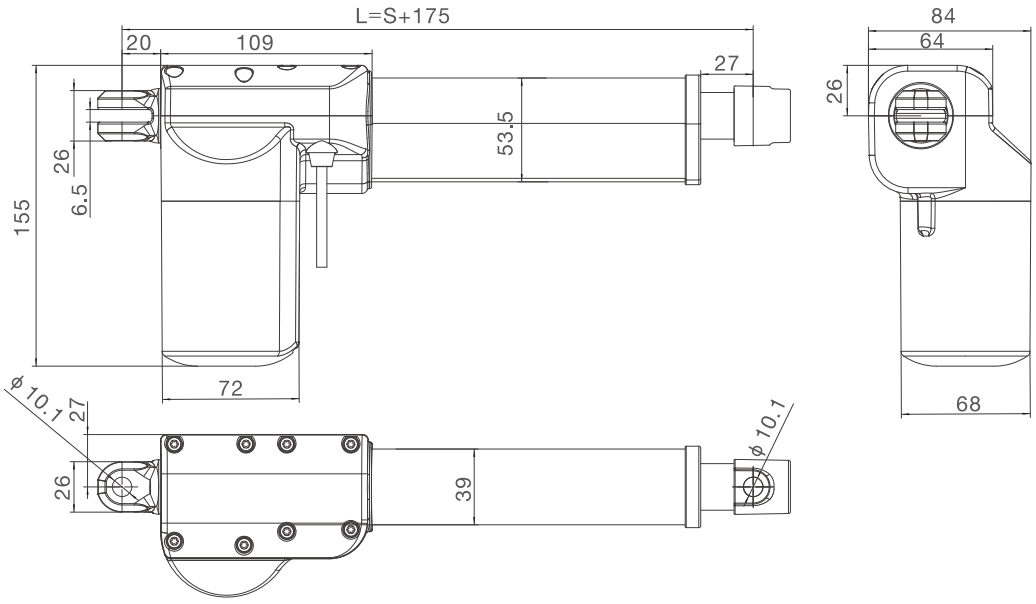
JC35L29-F03+B01



JC35L29-F05+B01



JC35L29-F09+B01

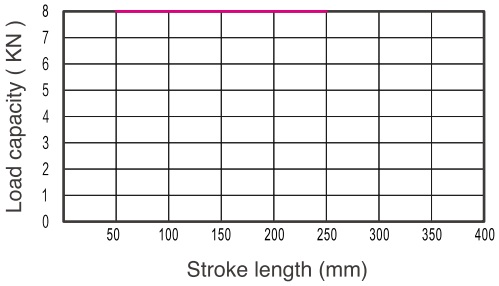


Technical Specifications (Standard Value)

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)
24	3	8000	/	8000	3	6
29					3.5	6

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℃.

Diagram of relationship between stroke length and load

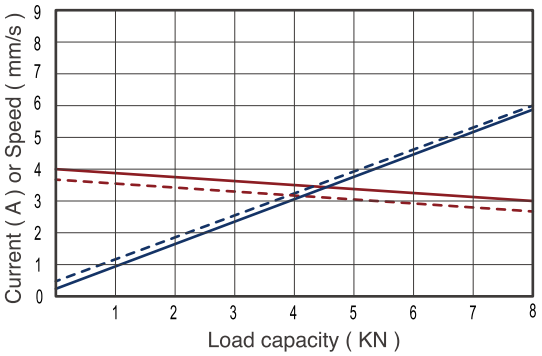


Characteristic Curve

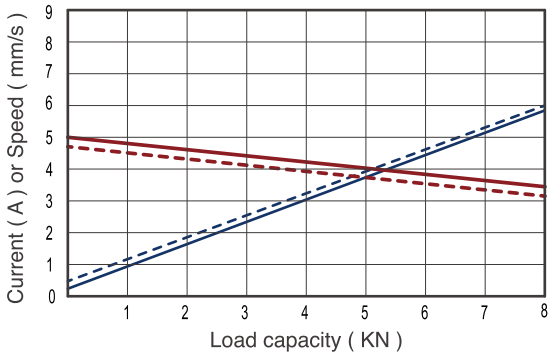
Typical speed
Min. speed
Typical current
Max. current

8000N

24V



29V



Ordering Key

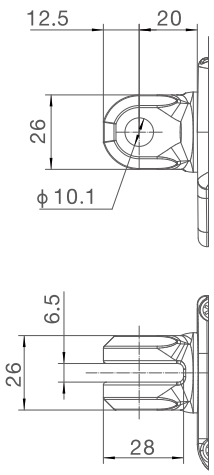
Take **JC35L29S8324150/325HG01L090021D5** as an example

Model	JC35L29	
Operational Features	X	S = Safety nut / SY = Safety nut + Hall sensor L = Safety nut + Reed switch B= signal switch+mechanical end stop
Load in push	X	8 = 8000N
Speed at full load	X	3 = 3mm/s
Input voltage	XX	24 = 24VDC
Stroke length / installation dimensions	XXX/XXX	Stroke = XXX Installation dimension = XXX
Clevis direction	X	H=horizontal V=vertical (to motor direction)
Colour	X	G = Gray
End clevis feature	XX	B01 = slot 6.5, depth 28, ϕ10.1 B13 = slot 6.5, depth 28, ϕ10.1 with plastic bushing. B20 = slot 6.5, depth 28, ϕ12.1
End clevis material	X	L = Aluminum alloy
Front clevis feature	XX	F03 = slot 6.5, depth 26, ϕ10.1 F04 = slot 6.5, depth 26, ϕ10.1 with plastic bushing (for steel or aluminium tube) F05 = slot 6.5, depth 26, ϕ10.1 with plastic bushing (for aluminium tube) F09 = ϕ10.1 with plastic bushing F43 = ϕ10.2 with plastic bushing
Brake specification	X	0 = Standard
Type of connector and cable	XX	02 = 4 Pin Din connector 10 = 5 Pin Din connector 93=6 Pin Mini-Fit elbow connector
Cable length	XXX	1D5 = 1.5m

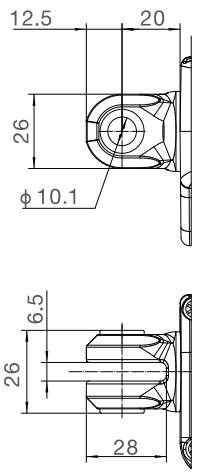
Ordering Details

Dimensions of end clevis

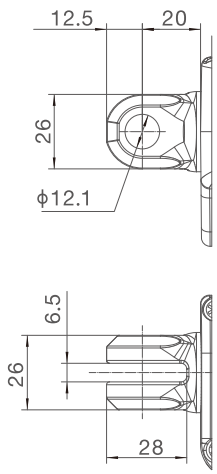
B01



B13

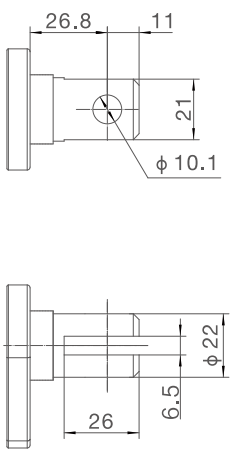


B20

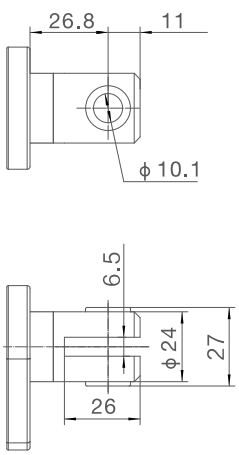


Dimensions of front clevis

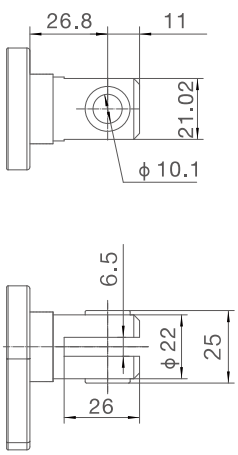
F03



F04

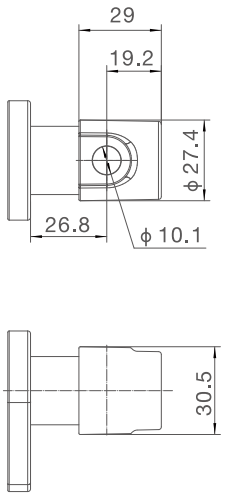


F05

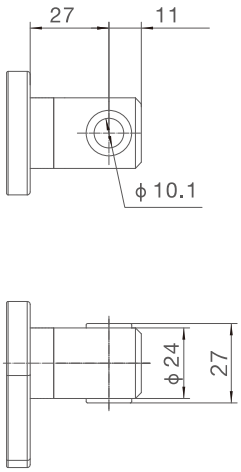


Dimensions of front clevis

F09



F43



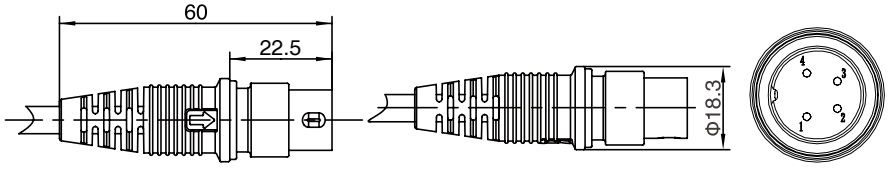
Motor cable

4 Pin Din Connector (standard)

Supporting control box :
JCB35Q / JCB35T / JCB35R / JCB35R1 / JCB35S

Pin	Color	Function
1	NC	Not connected
2	Brown	power with positive voltage, actuator going down
3	Blue	power with positive voltage, actuator going up
4	NC	Not connected
Outer Circle	NC	Not connected



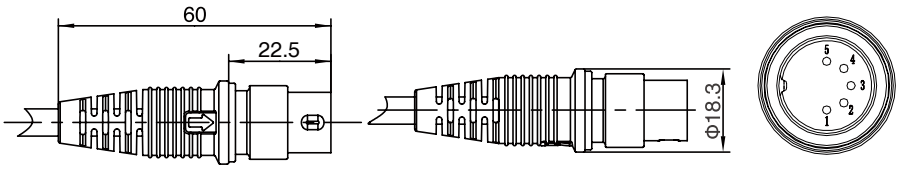


5 Pin Din Connector (with Hall sensor)

Supporting control box :
JCB35Q / JCB35T / JCB35R / JCB35R1 / JCB35S



Pin	Color	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
Outer Circle	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

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