JC35L35 Linear Actuator



1. JC35L35 is a quiet actuator with function of quick release. It is characterized by its fast motor which is up to 8.3mm/s (24V), compact structure of small installation dimension and high protection class of max. IPX6.

2. It is a perfect choice for hospital beds, nursing home beds and other medical equipment.

Features And Options

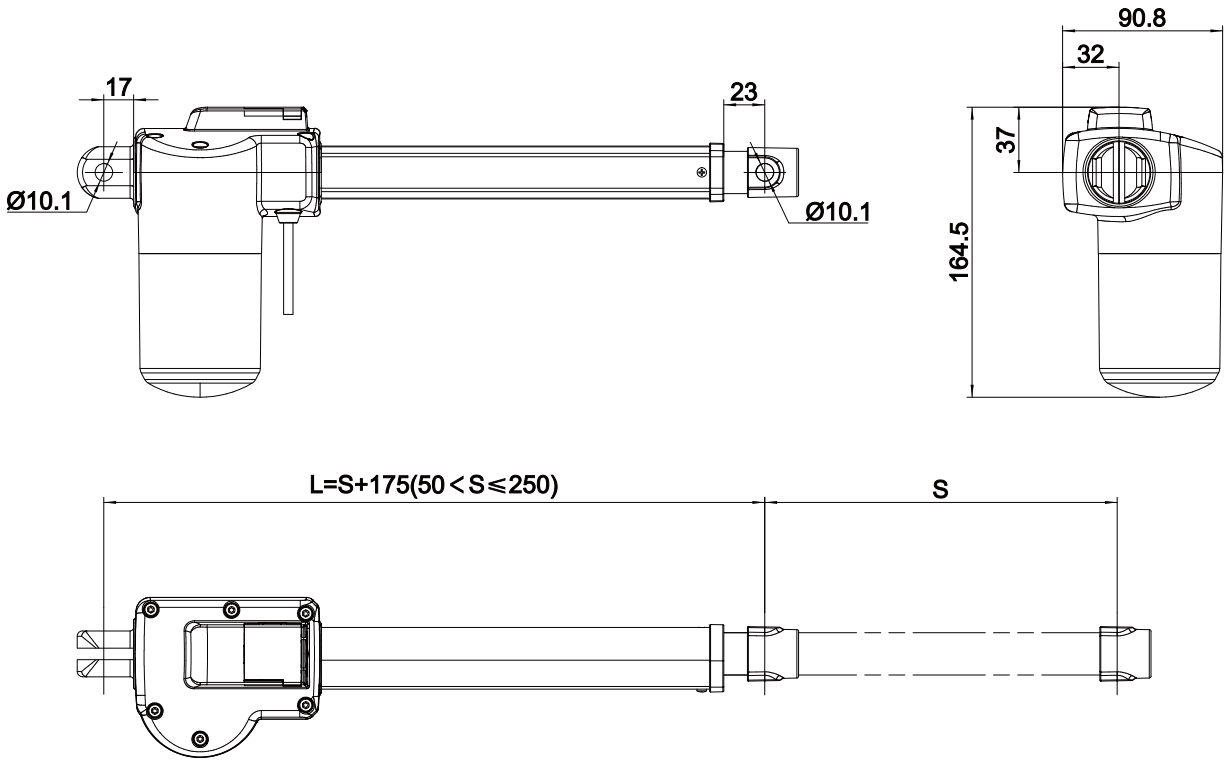
Dynamic Load Push(N):	3500
Dynamic Load Pull (N):	0
Min. Release Load:	≤300N
Colour:	Gray
Protection Class:	Max. IPX6
Stroke Length:	50-250mm(in steps of 4mm)
Installation Dimensions:	L=S+175 (50＜S≤250)
Noise Level:	≤46dB(environmental noise≤40dB)
Optional:	Hall sensor, Only push, Signal switch
Standard:	Safety nut, Mechanical end stop
Limit Switch:	Built-in (electronic)
Weight:	About 2kg (different stroke length and installation dimensions with different weight)
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:	20% to 90% at 30°C, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimension

Front clevis F09, ϕ 10.1, end clevis B10

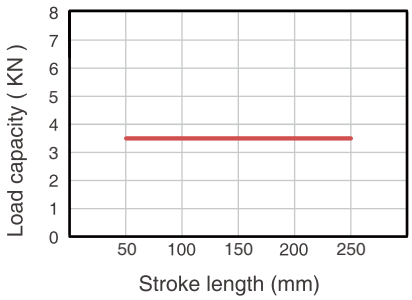


Technical Specifications (Standard Value)

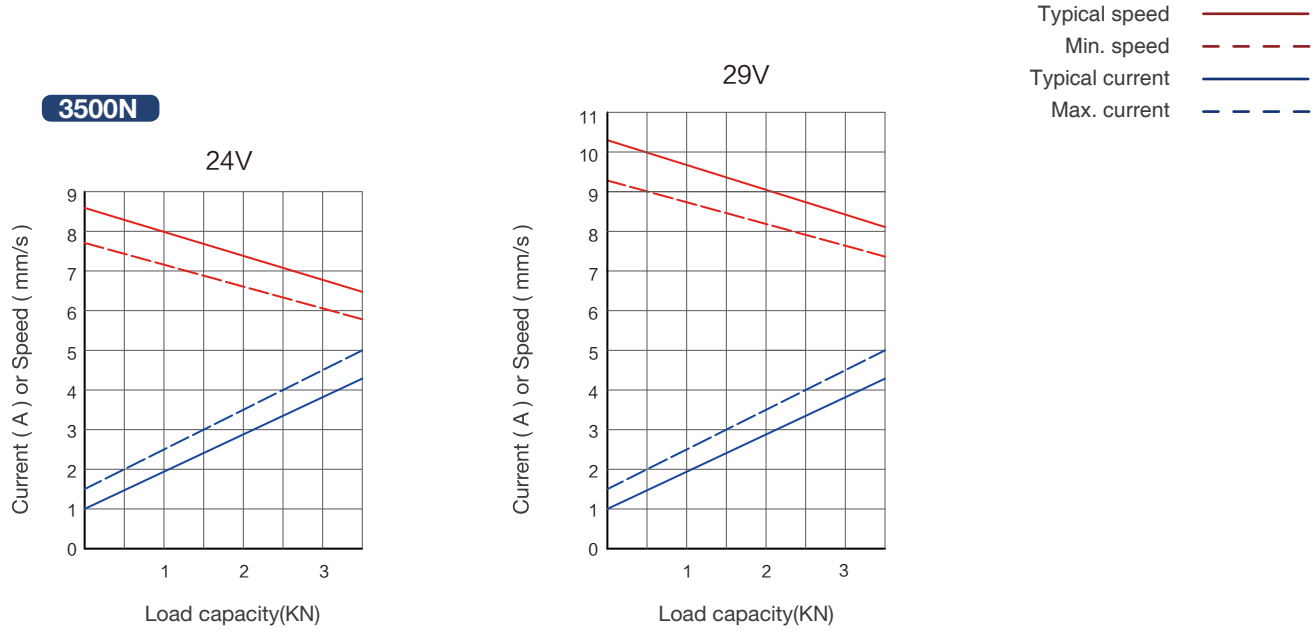
Input voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-locking (N)	Min. release load (N)	Speed at no load/full load (mm/s)	Current at full load (A)
24	6	3500	/	3500	≤300	8.3/6.5	≤5.0
29	6	3500	/	3500	≤300	10.3/8.2	≤5.0

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



Characteristic Curve



Ordering Key

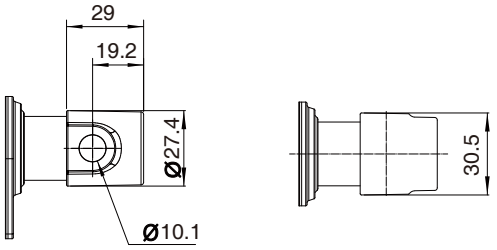
Take **JC35L3503D56D524200/375HGB10SF090021D5** as an example

Model	**JC35L35**	
Optional features	**X**	0 = Quick release + safetynut (standard) P = Only push + quickrelease + safetynut (standard) Y = Hallsensor + quickrelease + safetynut (standard) PY = Only push + Hallsensor + Quickrelease + safetynut (standard) B= signal switch+mechanical end stop
Load in push	**X**	3D5 = 3500N
Speed at full load	**X**	6D5 = 6.5mm/s
Input voltage	**XX**	24 = 24VDC / 29 = 29VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Installation dimension = XXX
Clevis directions	**X**	H = horizontal V= vertical (to motor direction)
Colour	**X**	G = Gray / B = Black
End clevis specification	**XX**	B10 = slot 6.5, depth 32, hole ϕ10.1
End clevis material	**X**	S = Plastic end clevis
Front clevis specification	**XX**	F09 = phi 14.2 on inner tube. Distance 17 from the hole to end. ϕ 10.1 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**	0D5 = 0.5m 1D5 = 1.5m 2D0 = 2.0m

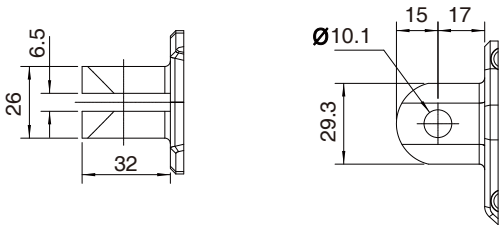
Ordering Details

Dimensions of clevis

Front clevis F09



End clevis B10



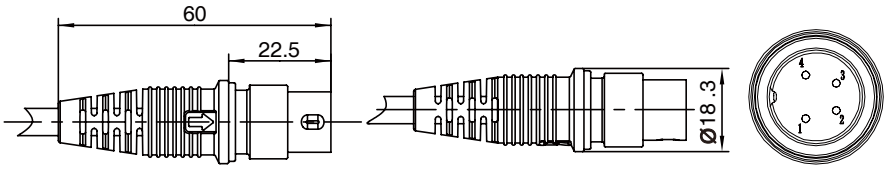
Motor Cable

4 Pin Din Connector (standard)

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

Pin	Color	Functions
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



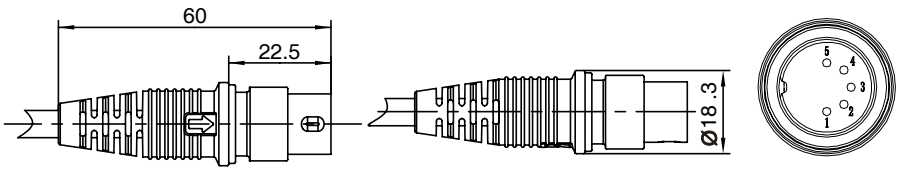


5 Pin Din Connector (actuators with Hall sensors)

Supporting control boxes:
JCB35Q / JCB35T / JCB353R / JCB35R1 / JCB35S

Pin	Color	Functions
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

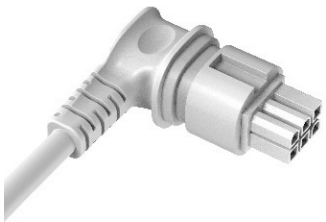


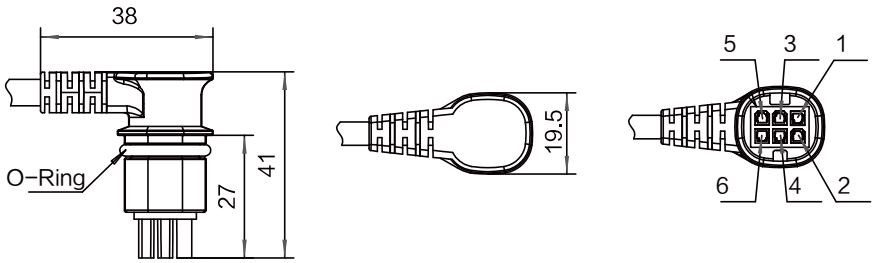


6 Pin Mini-Fit elbow connector

Supporting control boxes:
JCB35T2 / JCB35T3

Pin	Color	Function
1	Orange	When not in the lower limit, it is connected with red
2	Brown	power with positive voltage, actuator going down
3	Black	When not in the upper limit, it is connected with yellow
4	Blue	power with positive voltage, actuator going up
5	Red	When not in the lower limit, it is connected with orange
6	Yellow	When not in the upper limit, it is connected with black





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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