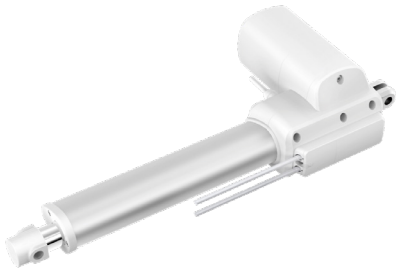
JC35L23 Linear Actuator

Application field - Medical Line
Preferably in hospital beds and etc.



JC35L23-QR is a compact and powerful actuator. It enables JIECANG to offer the market robust actuator whose thrust up to 6000N and with function quick release.

It would be a good choice for hospital beds and other medical applications because of its features of low-noise and high protection class.

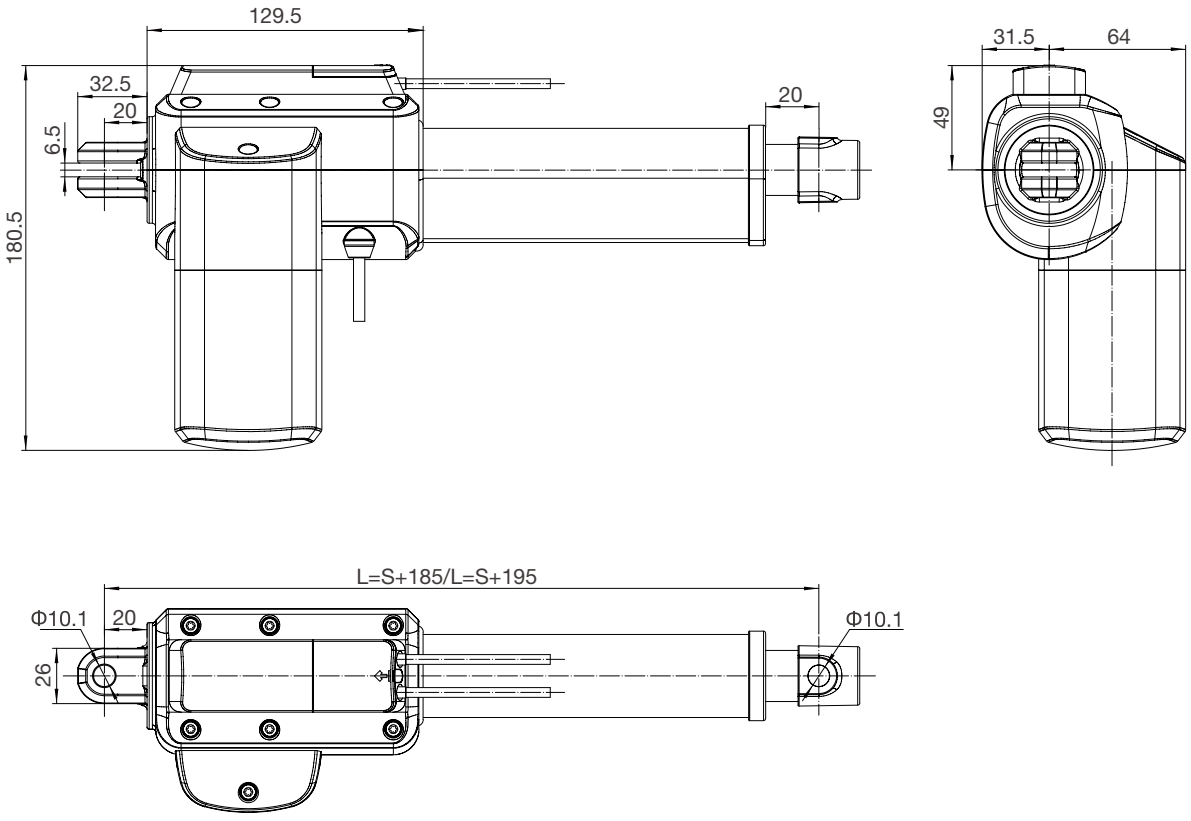
Features And Options

Dynamic Load Push(N):	6000
Colour:	Gray
Protection Class:	Max.IPX6
Stroke Length:	6000N: 50-300mm
Installation Dimension:	L=S+185(50≤S≤300) L=S+195(50≤S≤300,with only push option)
Noise Level:	≤48dB (environmental noise≤40dB)
Standard:	Quick release, Safety Nut, Manual operation
Options:	Hall Sensor, Only Push, Signal switch
Limit Switch:	Built-in (electronic)
Weight:	2.8kg (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

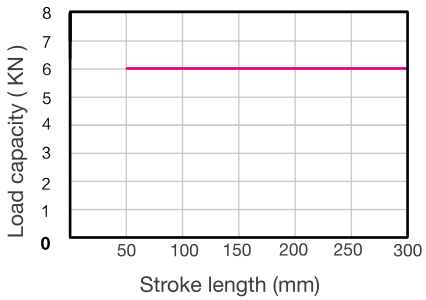


Technical Specifications (Standard Value)

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	6	6000	/	6000	6.0/4.5	≤4.5
29	6	6000	/	6000	7.0/5.5	≤4.5
36	6	6000	/	6000	9.0/7.0	≤4.5

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.

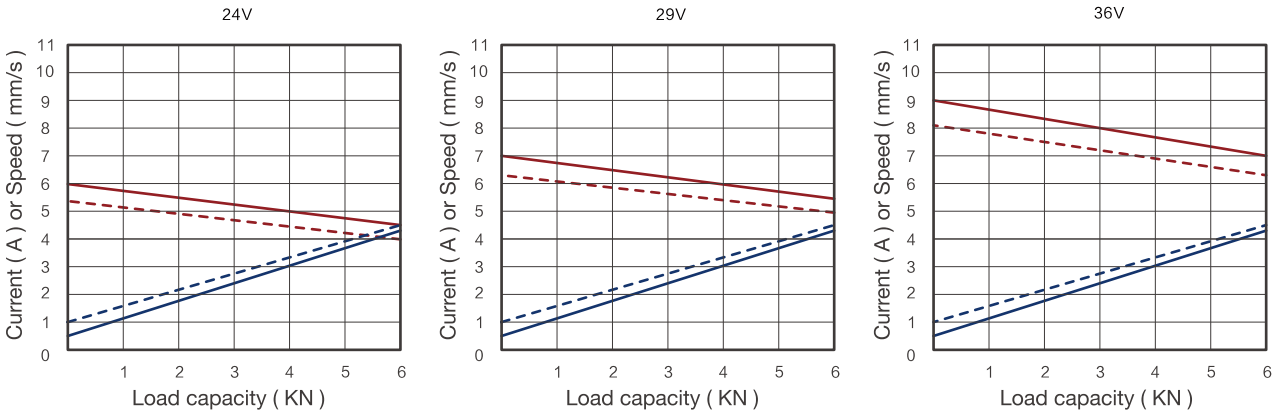
Diagram of relationship between stroke length and load



Characteristic Curve

Typical speed
Min. speed
Typical current
Max. current

6000N



Ordering Key

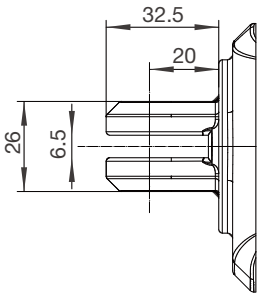
Take **JC35L23P65D529150/345HG32L160021D5** as an example

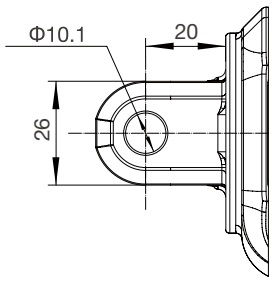
Model	**JC35L23**	
Optional features	**X**	0 = Quick release + Safety nut P = Quick release + Safety nut + Only push Y = Quick release + Safety nut + Hall sensors PY = Quick release + Safety nut + Only push + Hall sensors B= signal switch+mechanical end stop
Load in push	**X**	6 = 6000N
Speed at full load	**XX**	4D5 = 4.5mm/s 5D5 = 5.5mm/s 7 = 7mm/s
Input voltage	**XX**	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
End clevis specification	**XXX**	B32=ϕ10.1 with plastic bushing
End clevis material	**X**	L= Aluminum alloy
Front clevis specification	**XXX**	F09=ϕ14.2 on inner tube. Distance 17 from the hole to end. ϕ10.1 with plastic bushing
Brake specification	**X**	0 = no brake
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**	2D0 = 2.0m / 1D5 = 1.5m

Ordering Details

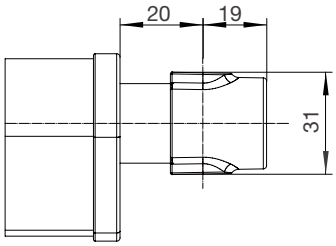
Dimensions of clevis

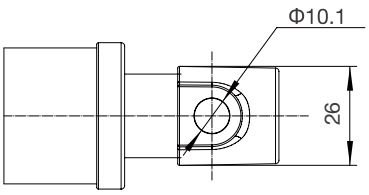
End clevis: B32





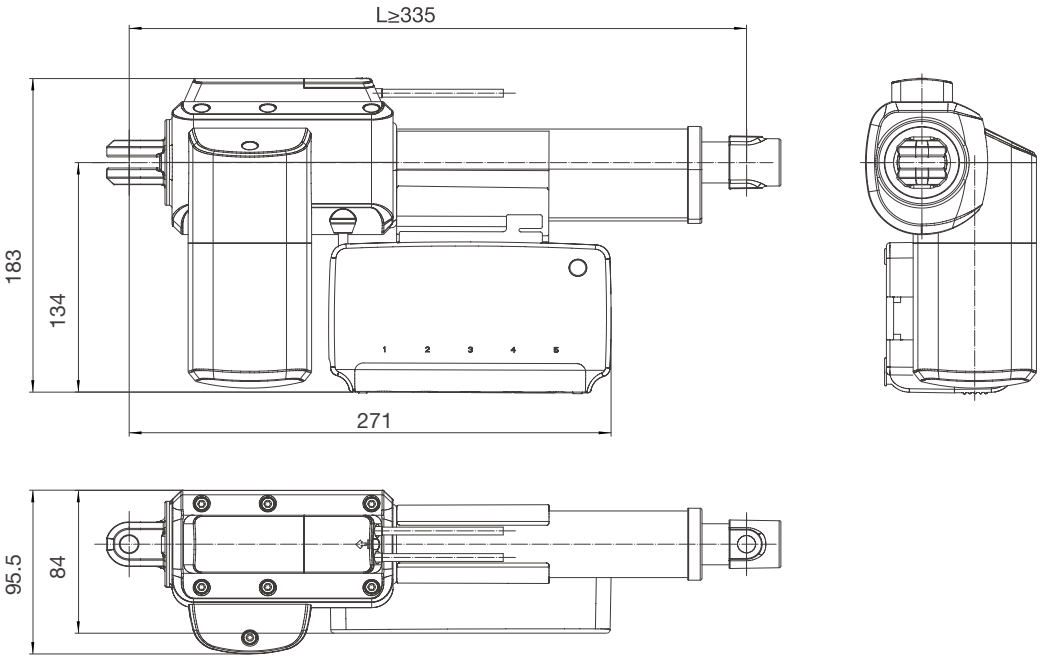
Front clevis: F09



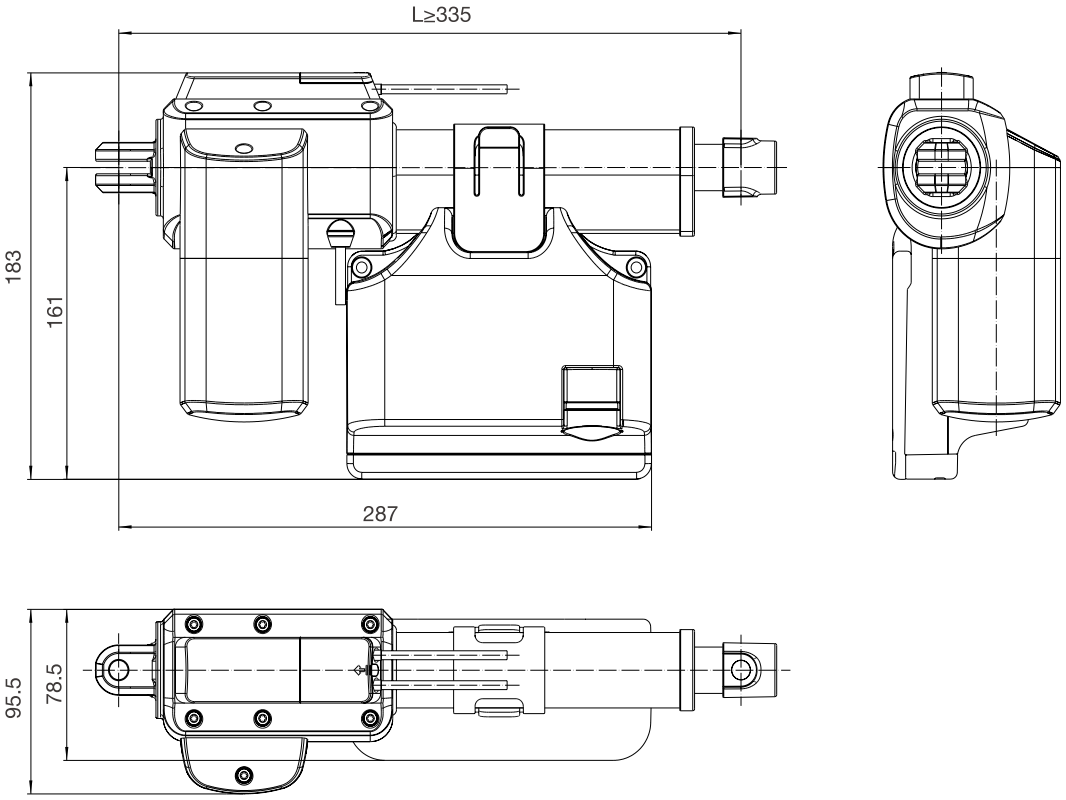


Dimensions of jc35L23 with control

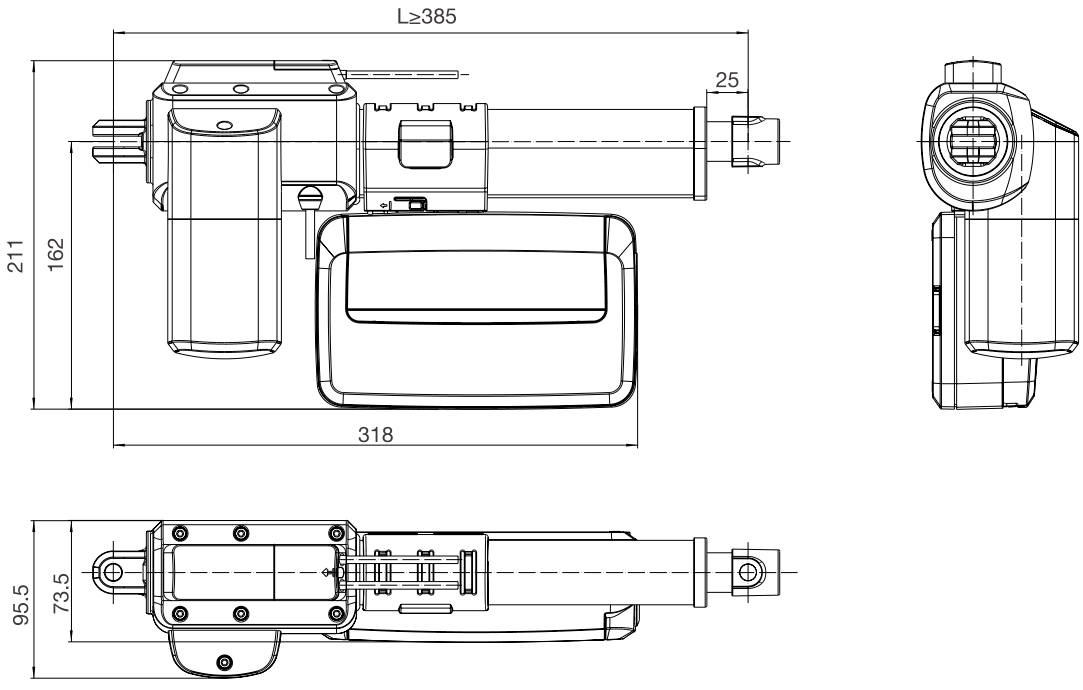
JCB35Q installing with JC35L23



JCB35T installing with JC35L23



JCB35T2 installing with JC35L23



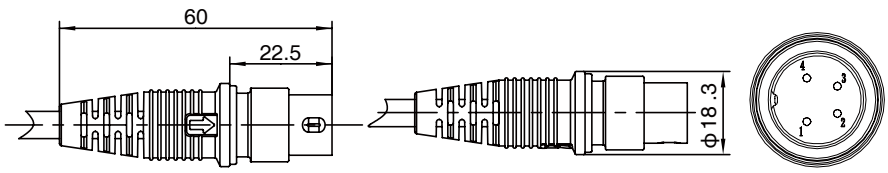
Motor cable

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



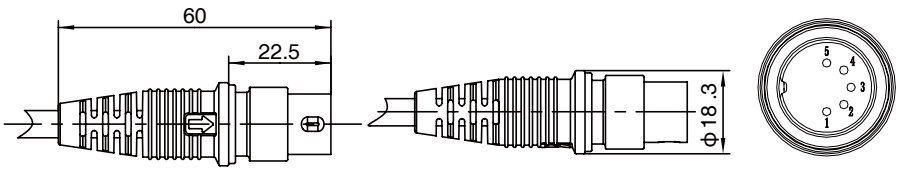


5 Pin Din Connector (with Hall sensor)

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



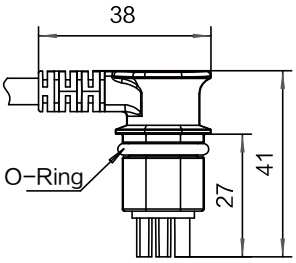


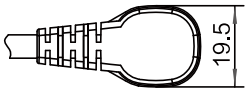
6 Pin Mini-Fit elbow connector

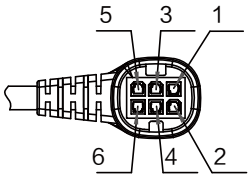
Supporting control box :
JCB35T2 / JCB35T3 / JCB35Q3

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