JC35L10 Linear Actuator

Application field - Medical Line
Preferably in hospital bed, nursing home bed,
operating table and other applications.



CPR is an important function for hospital beds in medical line. And JC35L10 is an exactly suitable actuator to achieve it.
With the feature of low noise, it can offer comfortable experiences for the user. It is available in a 4000N (push) and 3000N (push) version. Its water-proof performance IP54 will meet the standard in medical line.

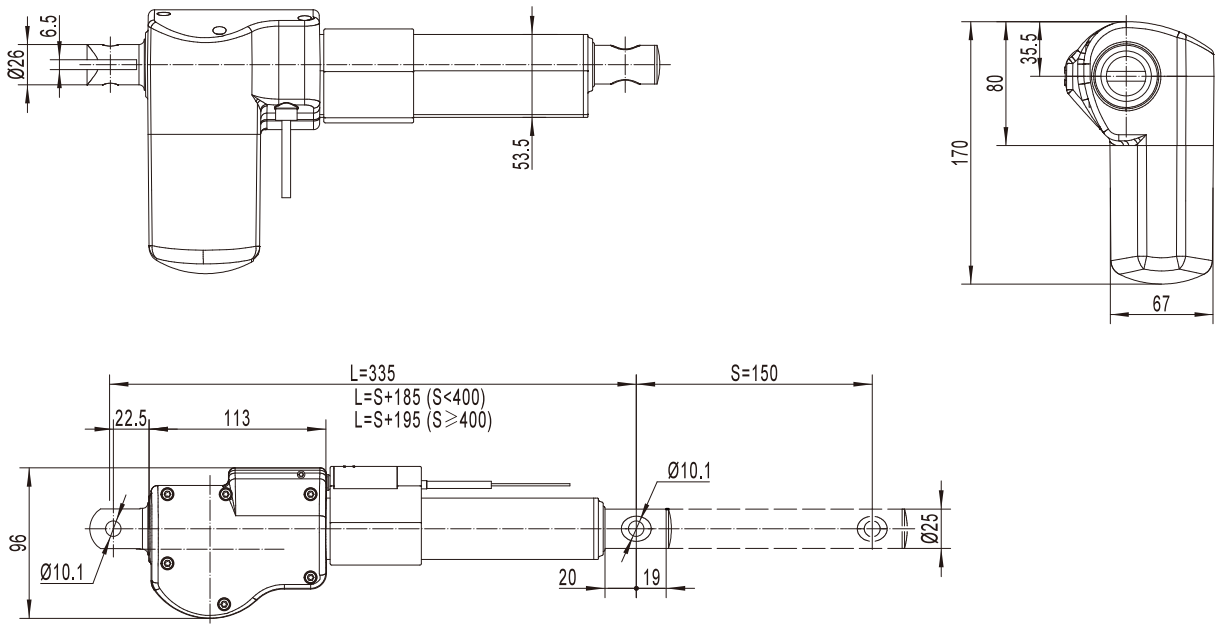
Features And Options

Dynamic Load Push(N):	4000 | 3000
Colour:	Gray
Protection Class:	IP54
Stroke Length:	4000N: 30-400mm (in steps of 4mm) 3000N: 30-400mm (in steps of 4mm)
Installation Dimension:	L=235 (30<S≤50) L=S+185 (50<S≤400)
Noise Level:	≤50dB (environmental noise≤40dB)
Optional:	Safety nut, Hall sensor, Only push, Signal switch+Mechanical end stop
Limit Switch:	Built-in (electronic)
Weight:	About 1.5kg (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

Dimensions

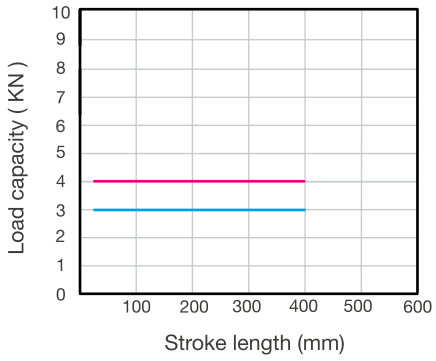


Technical Specifications (Standard Value)

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	5	4000	3500	3500	6.5/5.0	≦4.5
29	5	4000	3500	3500	8.0/6.0	≦4.5
24	6	3000	3000	2500	8.5/6.5	≦4.5
29	6	3000	3000	2500	9.5/8	≦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.

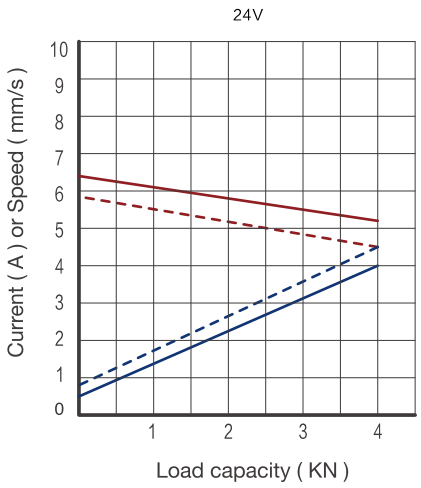
Diagram of relationship between stroke length and load

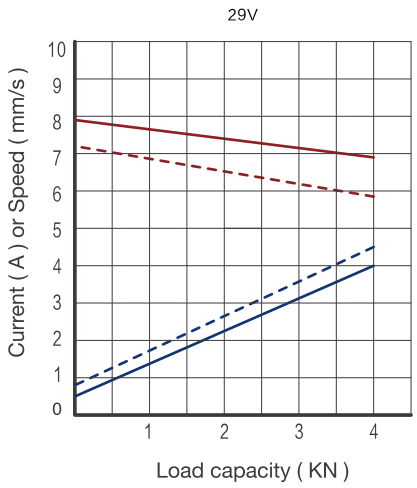


Characteristic Curve

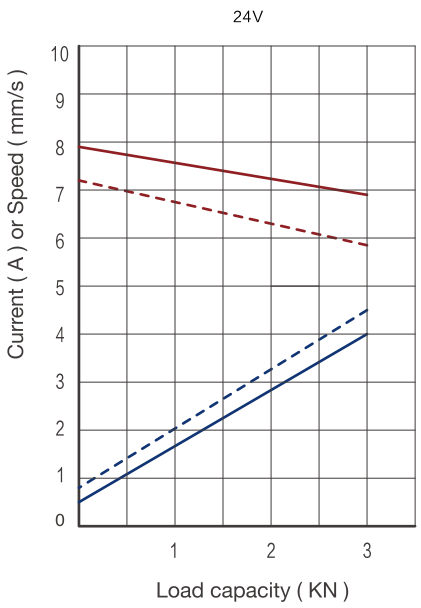
Typical speed
Min. speed
Typical current
Max. current

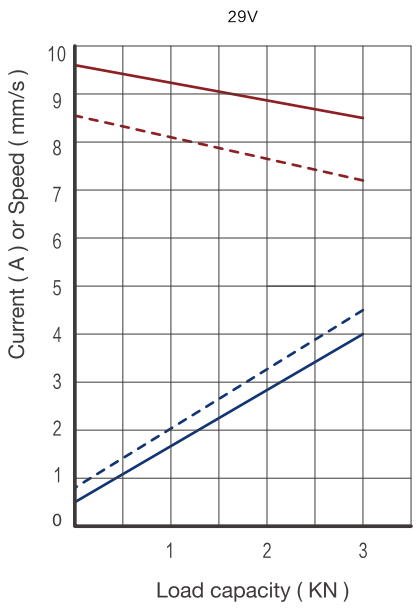
4000N





3000N





Ordering Key

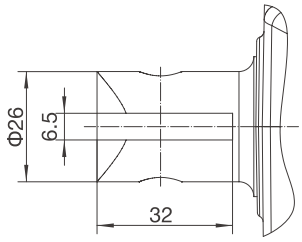
Take **JC35L1003724200/385HGDZK2022D0** as an example

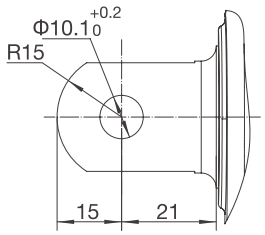
Model	**JC35L10**	
Optional features	**X**	P = Only push / S = Safety nut / Y = Hall sensor PY = Only push + Hall sensor B= Signal switch+Mechanical end-stop
Load in push	**X**	4 = 4000N / 3 = 3000N
Speed at full load	**X**	5 = 5mm/s 7D5 = 7.5mm/s
Input voltage	**XX**	24 = 24VDC / 29 = 29VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Installation dimensions = XXX
Clevis directions	**X**	H=horizontal V=vertical (to motor direction)
Colour	**X**	G = Gray
End clevis specification	**X**	D = slot 6.5, slot depth 32, hole diameterΦ10.1
End clevis material	**X**	Z = Zinc aluminum alloy
Front clevis specification	**X**	K= hole diameter ϕ10.1
Brake specification	**X**	2 = brake in push
Type of connector and cable	**XX**	02= 4 Pin Din connector 10=5 Pin Din connector 21=6 Pin Mini-Fit connector 93=6 Pin Mini-Fit elbow connector
Cable length	**XXX**	0D5 = 0.5m / 1D5 = 1.5m / 2D0 = 2m

Ordering Details

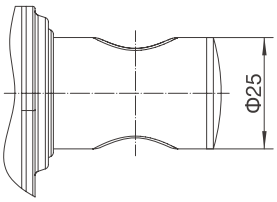
Dimensions of clevis

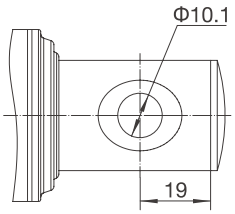
End clevis





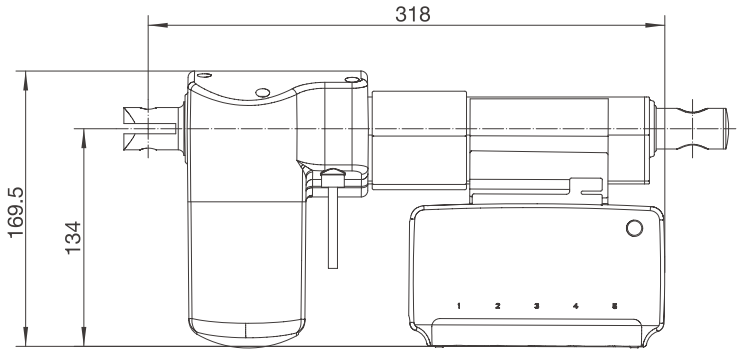
Front clevis

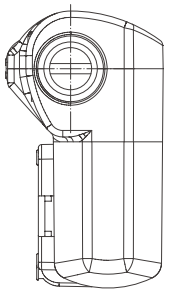


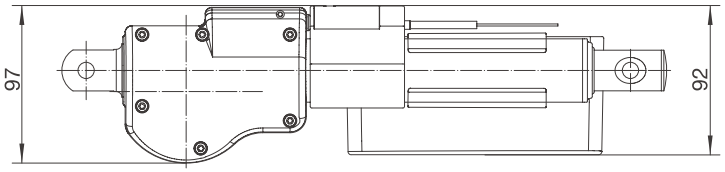


Dimensions of JC35L10 with control box

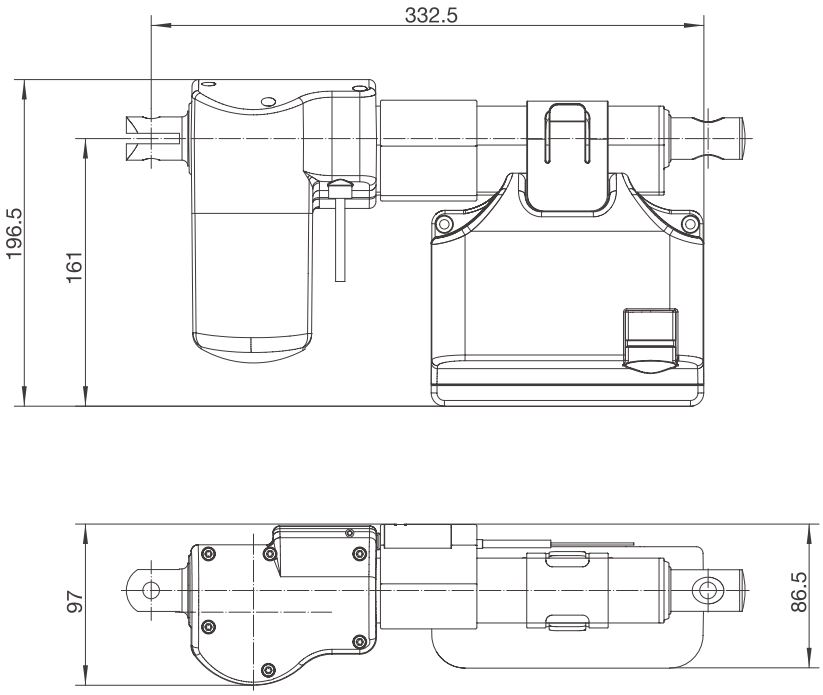
JCB35Q installing with JC35L10



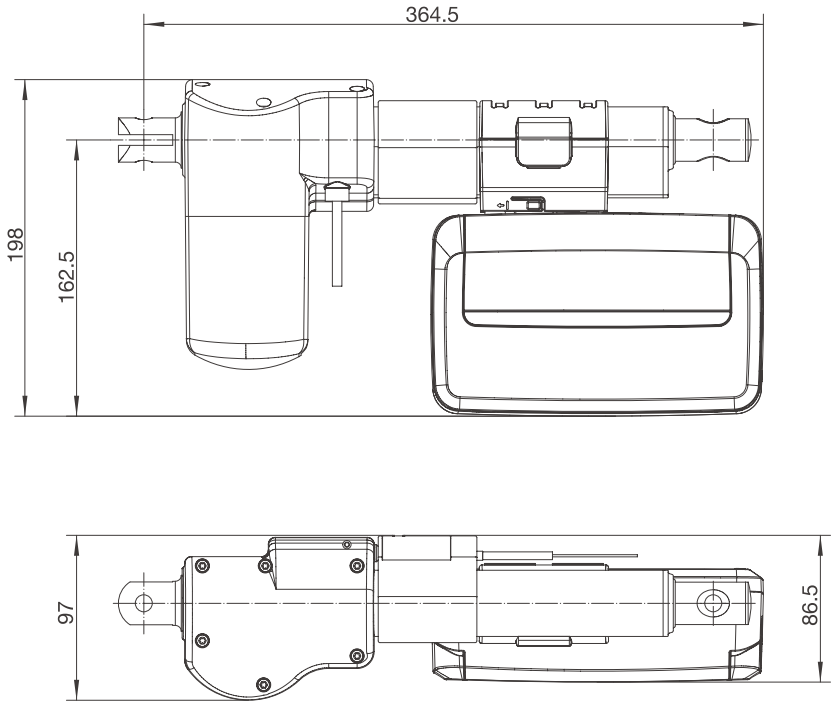




JCB35T installing with JC35L10



JCB35T2 installing with JC35L10



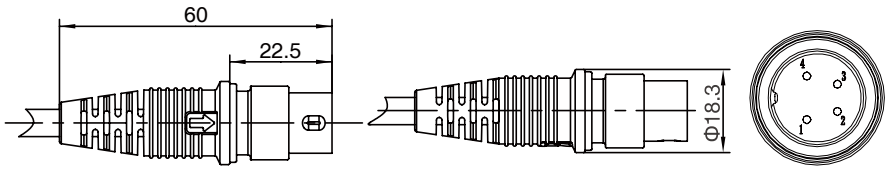
Motor cable

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



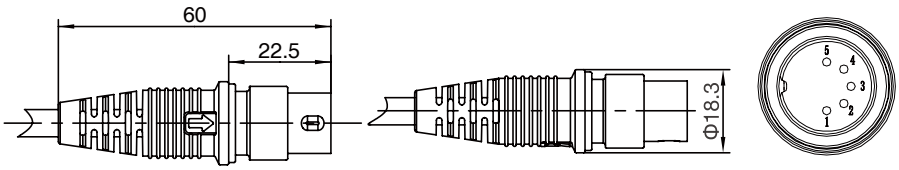


5 pin Din connector (with Hall sensor)

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

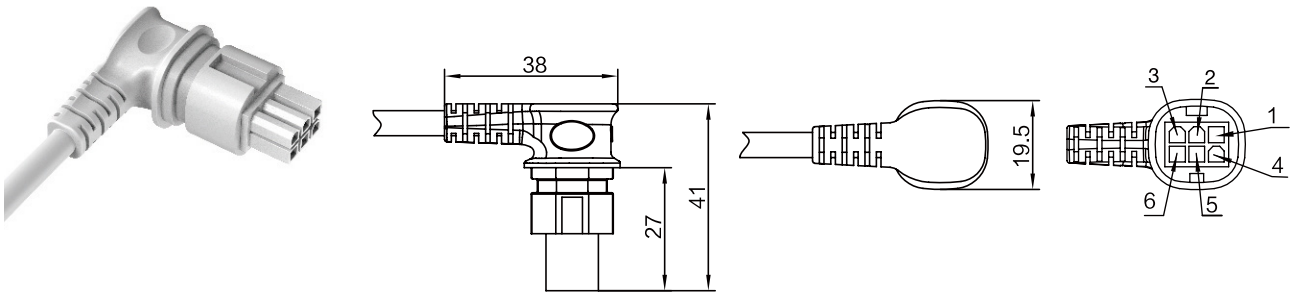




6 Pin Mini-Fit elbow connector

Supporting control box :
JCB35T2 / JCB35T3 / JCB35Q3

Pin	Color	Function
1	Red	When not in the lower limit, it is connected with orange
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	Yellow	When not in the upper limit, it is connected with black
Outer Circle	Orange	When not in the lower limit, it is connected with red



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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