

# JC35L10 Linear Actuator

Application field - Medical Line

Preferably in medical bed, nursing bed, operating bed and other fields.

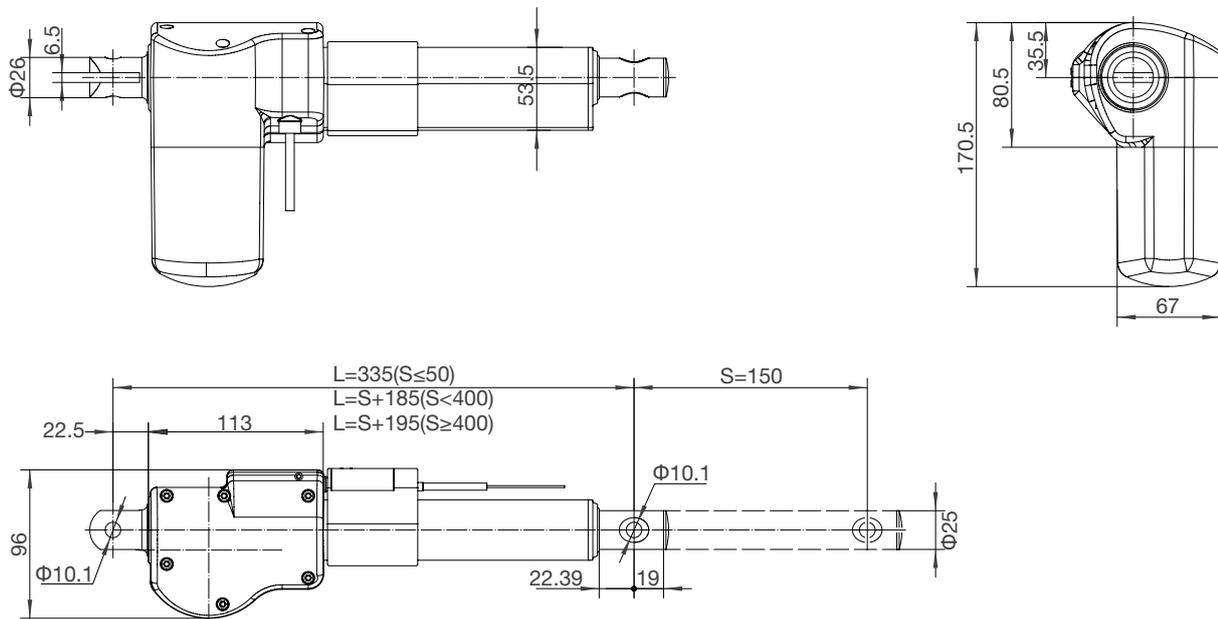
JC35L10 is a kind of actuator with quick release function, which can realize CPR function of medical bed and help patients quickly return to the flat position. At the same time, it has low noise and its IP54 grade meets the medical standard. It has the following models: JC35L10-4000N (push); JC35L10-3000N (push);



## General Features

<b>Load in push (N):</b>	4000   3000
<b>Motor rated voltage Input (VDC):</b>	24
<b>Stroke length:</b>	4000N: 50-400mm (in steps of 4mm) 3000N: 50-400mm (in steps of 4mm)
<b>Installation dimensions (mm):</b>	L=225 (S ≤ 50) L=S+185 (50 < S ≤ 400)
<b>Colour:</b>	Grey (RAL 7035)
<b>Limit switch:</b>	Built-in (electrical)
<b>Weight:</b>	About 1.5kg (different stroke length and installation dimensions with different weight )
<b>Noise level:</b>	≤ 48dB (environmental noise ≤ 40dB)
<b>Static bending moment:</b>	Lateral load is not allowed
<b>Duty cycle:</b>	10%, max. 2min. continuous use
<b>Max IP grade:</b>	IPX54
<b>Options:</b>	Safety nut, Hall sensor, Only push
<b>Standards:</b>	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

## Dimension Drawing

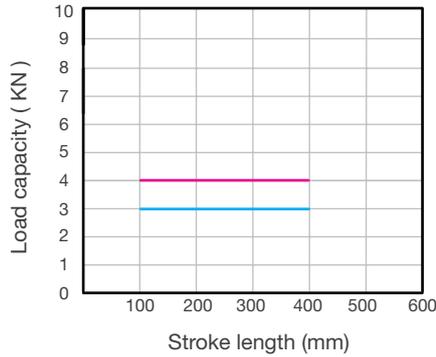


## Technical parameters

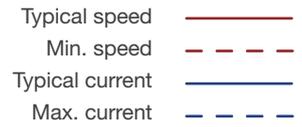
Power voltage (VDC)	Spindle pitch (mm)	Max.Load capacity (N)	Self locking (N)	Speed no load (mm/s)	Speed full load (mm/s)	Current full load (A)
24	5	4000	4000	6.5	5.2	4
29	5	4000	4000	8	6.5	4
36	5	4000	4000	10.5	8.5	4
24	6	3000	3000	8	7	4
29	6	3000	3000	9	8.5	4
36	6	3000	3000	13	10.5	4

Remark: the above data are typical values at 25 °C

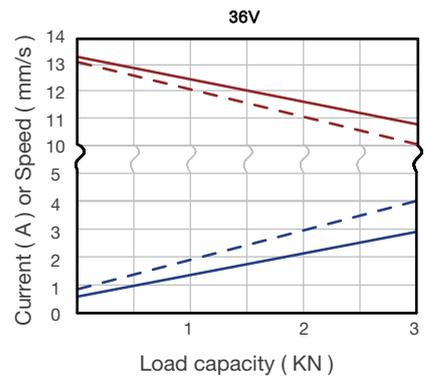
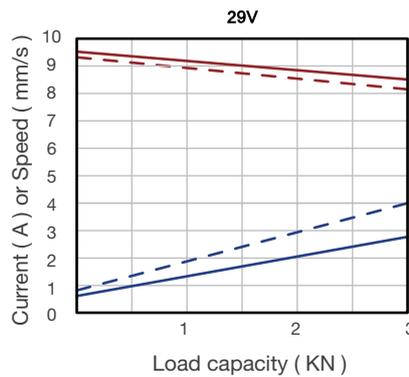
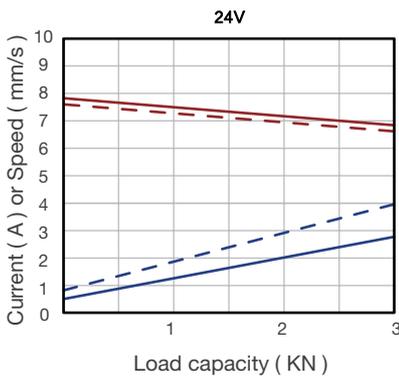
## Stroke length versus load



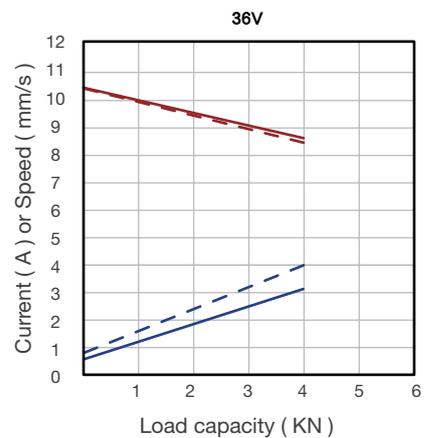
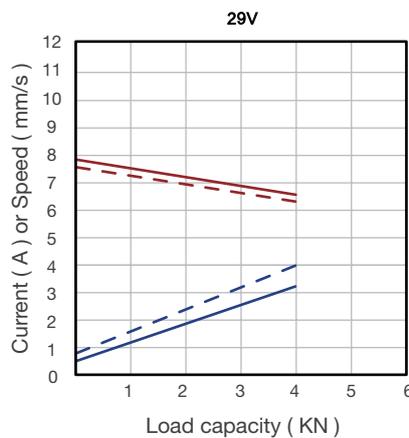
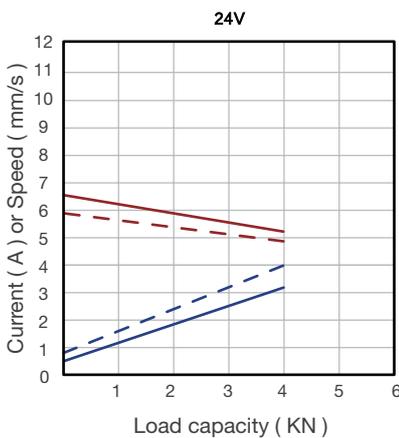
## Characteristic



### 3000N



### 4000N



## Ordering Key

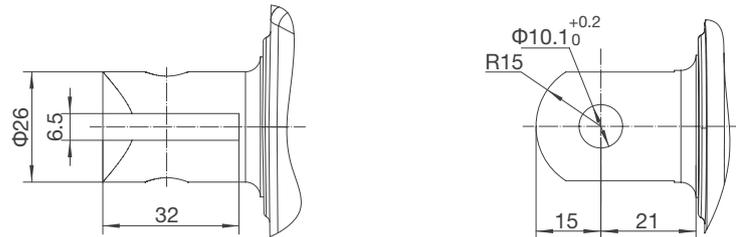
Take **JC35L1003724200/385HGDZK2022D0** for example

Model	<b>JC35L10</b>	
Optional features	<b>0</b>	P = Only push / S = Safety nut / Y = Hall sensor PY = Only push + Hall sensor
Load in push	<b>3</b>	4 = 4000N / 3 = 3000N
Speed at full load	<b>7</b>	5 = 5mm/s 7D5 = 7.5mm/s
Input voltage	<b>24</b>	24 = 24VDC
Stroke length/ Installation dimension	<b>200/385</b>	Stroke length = XXX Retracted length = XXX
Clevis directions	<b>H</b>	H = H direction / V = V direction
Color	<b>G</b>	G = Grey (RAL7035)
End clevis specification	<b>D</b>	D = slot 6.5, slot depth 32, hole diameterΦ10.1
End clevis material	<b>Z</b>	Z = Zinc aluminum alloy
Top clevis specification	<b>K</b>	K = Without top clevis, hole diameterΦ10.1
Brake specification	<b>2</b>	2 = Right brake
Type of plug and cable	<b>02</b>	02 = 4 pin DIN plug and 2 pin straight cable 10 = 5 pin DIN plug and 6 pin straight cable 21 = 6 pin ET waterproof bending plug 6pin straight cable
Cable length	<b>2D0</b>	0D5 = 0.5m / 1D5 = 1.5m / 2D0 = 2m

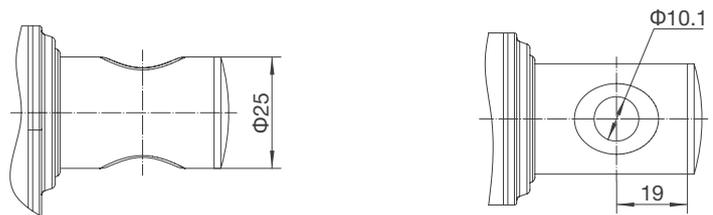
## Ordering Details

### Dimension drawing of clevis

#### End clevis

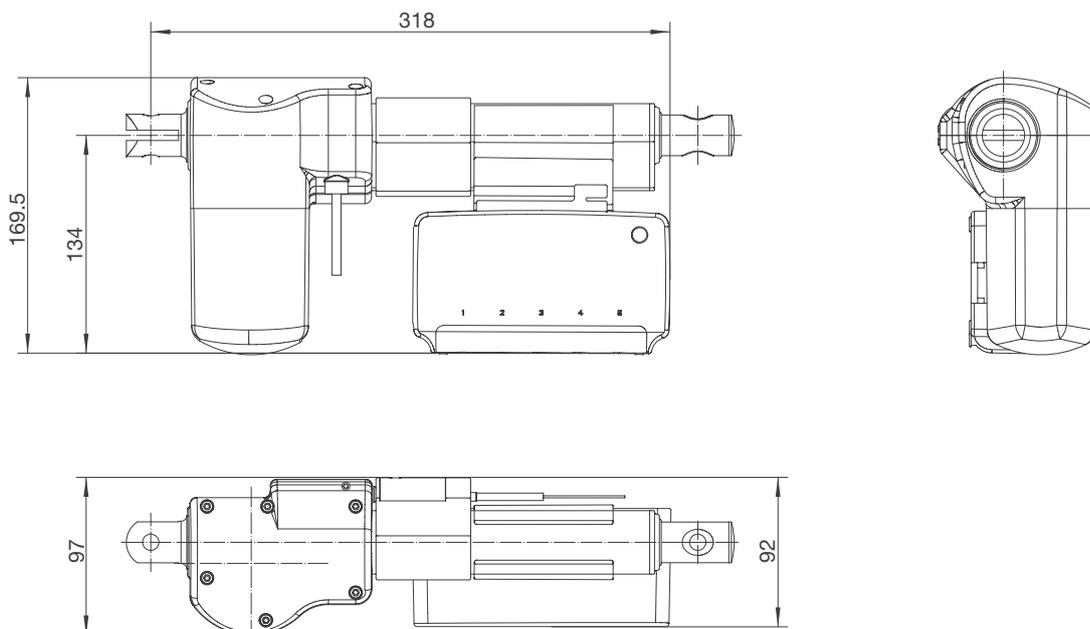


#### Top clevis

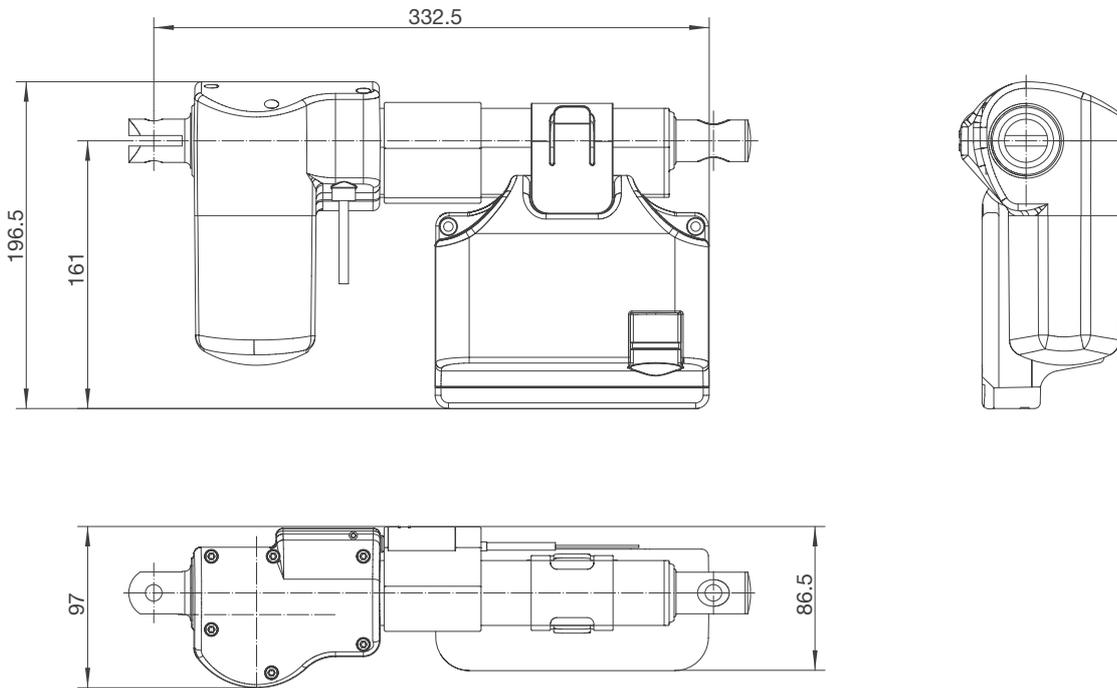


### Dimensions JC35L10 with control box

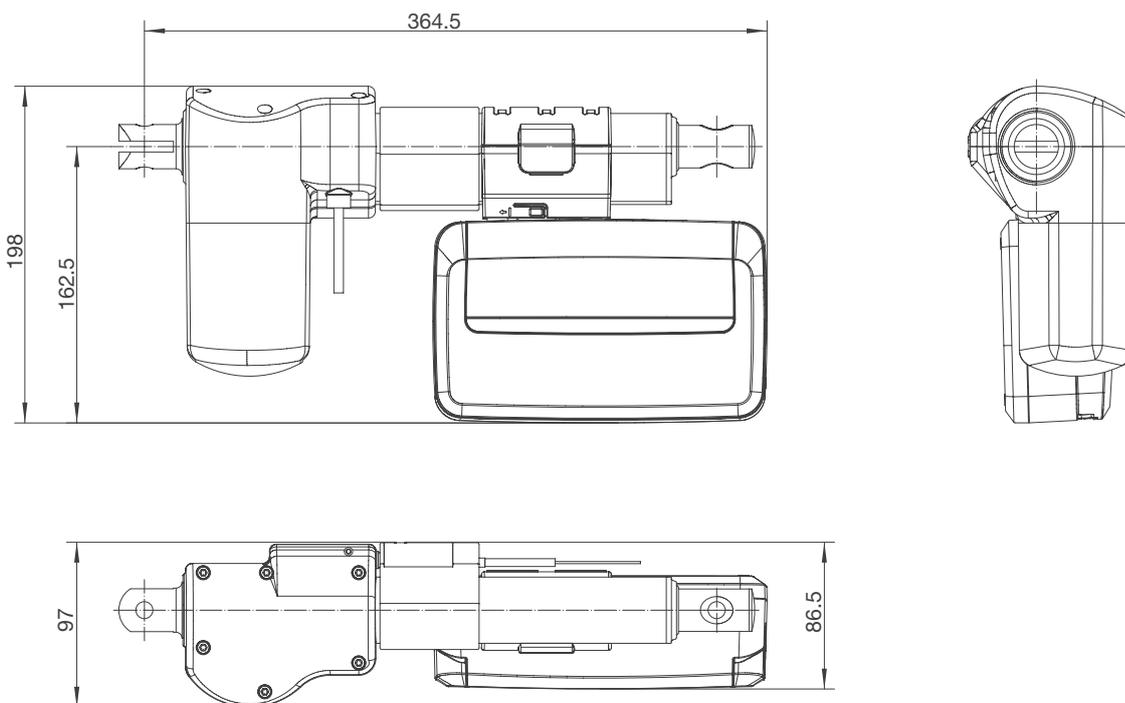
#### JCB35Q install on JC35L10



**JCB35T install on JC35L10**



**JCB35T2 install on JC35L10**

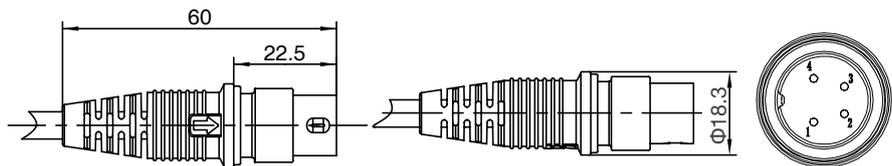


**Motor wire**

**4-pin straight plug (standard)**

Matching controller: JCB35Q/  
JCB35T/ JCB35R/ JCB35R1/  
JCB35S/ JCB35K2

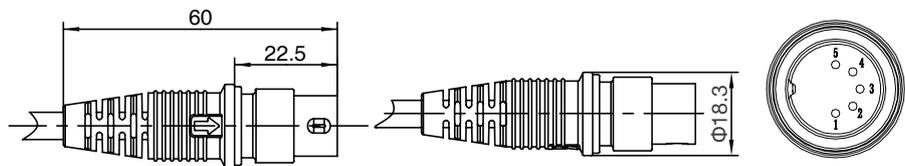
Pin	Color	Function
1	NC	Not connected
2	Brown	When positive voltage power on, actuator will go down
3	Blue	When positive voltage power on, actuator will go up
4	NC	Not connected
Outer ring	NC	Not connected



**5 pin DIN plug (with Hall sensor)**

Matching controller: JCB35Q/  
JCB35T/ JCB35R/ JCB35R1/  
JCB35S/ JCB35K2

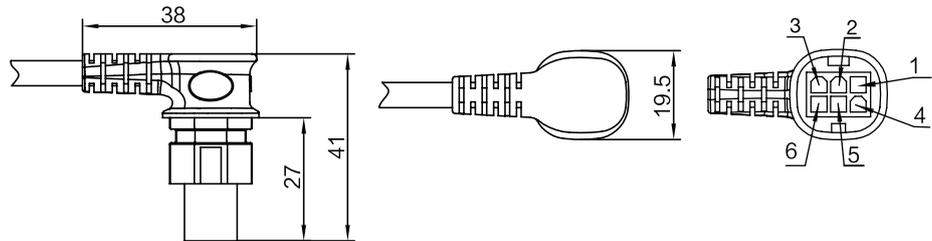
Pin	Color	Function
1	Red	5V
2	Brown	When positive voltage power on, actuator will go down
3	Black	GND
4	Blue	When positive voltage power on, actuator will go up
5	Yellow	Hall signal 1
Outer ring	Orange	Hall signal 2



### 6 Pin Mini-Fit elbow plug

Matching control box :JCB35T2/  
JCB35T3/JCB35Q3/JCB35K3

Pin	Color	Function
1	Orange	When not on lower limit, link with red wire
2	Black	When not on upper limit, link with yellow wire
3	Red	When not on lower limit, link with orange wire
4	Brown	When positive voltage power on,actuator will go down
5	Blue	When positive voltage power on,actuator will go up
6	Yellow	When not on upper limit, link with black wire





### **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



Notes for mounting and usage can be found in the corresponding mounting manual