JIECANG

JC35L6 Linear Actuator

Application field - Medical Line
Preferably in comfort bed, couches, nursing bed, etc.



JC35L6 is a kind of actuator with low noise, short installation distance and IP grade is IP54. It has following models: JC35L6-50N (push); JC35L6-1000N (push); JC35L6-2000N (push); JC35L6-3000N (push);
It is suitable for comfort bed, couches, nursing bed, etc.

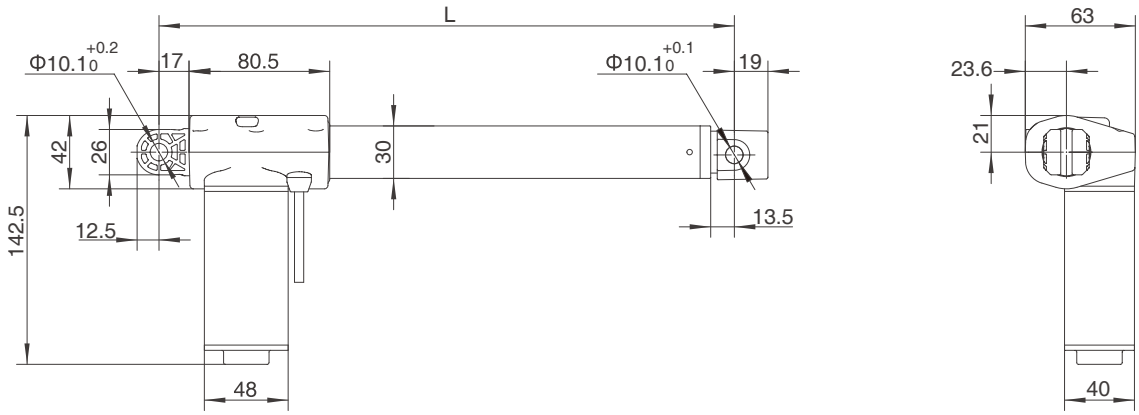
Features And Options

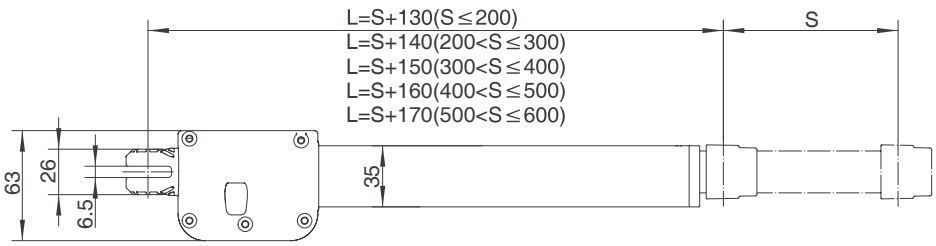
Dynamic load push(N):	3000 | 2000 | 1000 | 500 | 50
Dynamic load pull (N):	2000
Colour:	Gray / Black
IP Grade:	IP54
Stroke Length:	3000N: 50-300mm | 1000N: 50-600mm 2000N: 50-400mm | 50N: 50-600mm
Installation Dimensions:	Inner tube drilling with top clevis sleeve and top clevis bush L=S+130 (S≤200) | L=S+160 (400<S≤500) L=S+140 (200<S≤300) | L=S+170 (500<S≤600) L=S+150 (300<S≤400) With B type top clevis L=S+160 (S≤200) | L=S+190 (400<S≤500) L=S+170 (200<S≤300) | L=S+200 (500<S≤600) L=S+180 (300<S≤400)
Noise Level:	≤48dB (environmental noise≤40dB)
Optional:	Hall sensor, Only push
Limit Switch:	Built-in (electrical)
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. 2min.continuous working and 18 min.off
Operating Temperature:	+5 °C to +40°C
Reserve Temperature:	-10°C to 50°C
Supporting Control Box:	it can be matched with Jiecang common controller
Relative Humidity:	20% to 90% at 30 °C, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimension Drawing



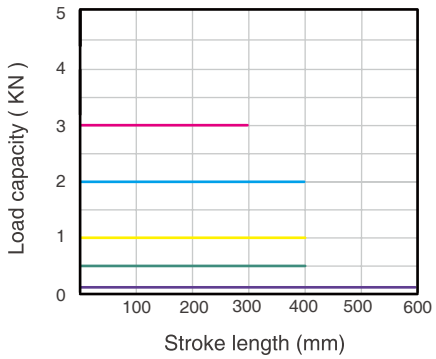


Technical Data-Standard Value

voltage (VDC)	Rotate speed (rpm)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-lock (N)	Speed at no load/full load (mm/s)	Current at full load (A)
12	Standard	7.5	1000	1000	500	15/10	≤6
24	Standard	3	3000	2000	3000	6.7/3.5	≤4
		5	2000	2000	2000	10.8/8	≤4
		7.5	1000	1000	1000	17.5/13	≤3
		20	50	50	50	44/41	≤2
		10	500	500	500	20.8/16	≤4
29	Standard	3	3000	2000	3000	8/4.2	≤4
		5	2000	2000	2000	13/9.6	≤4
		7.5	1000	1000	1000	21/15.6	≤3
		20	50	50	50	53/49.2	≤2
		10	500	500	500	25/19.2	≤4

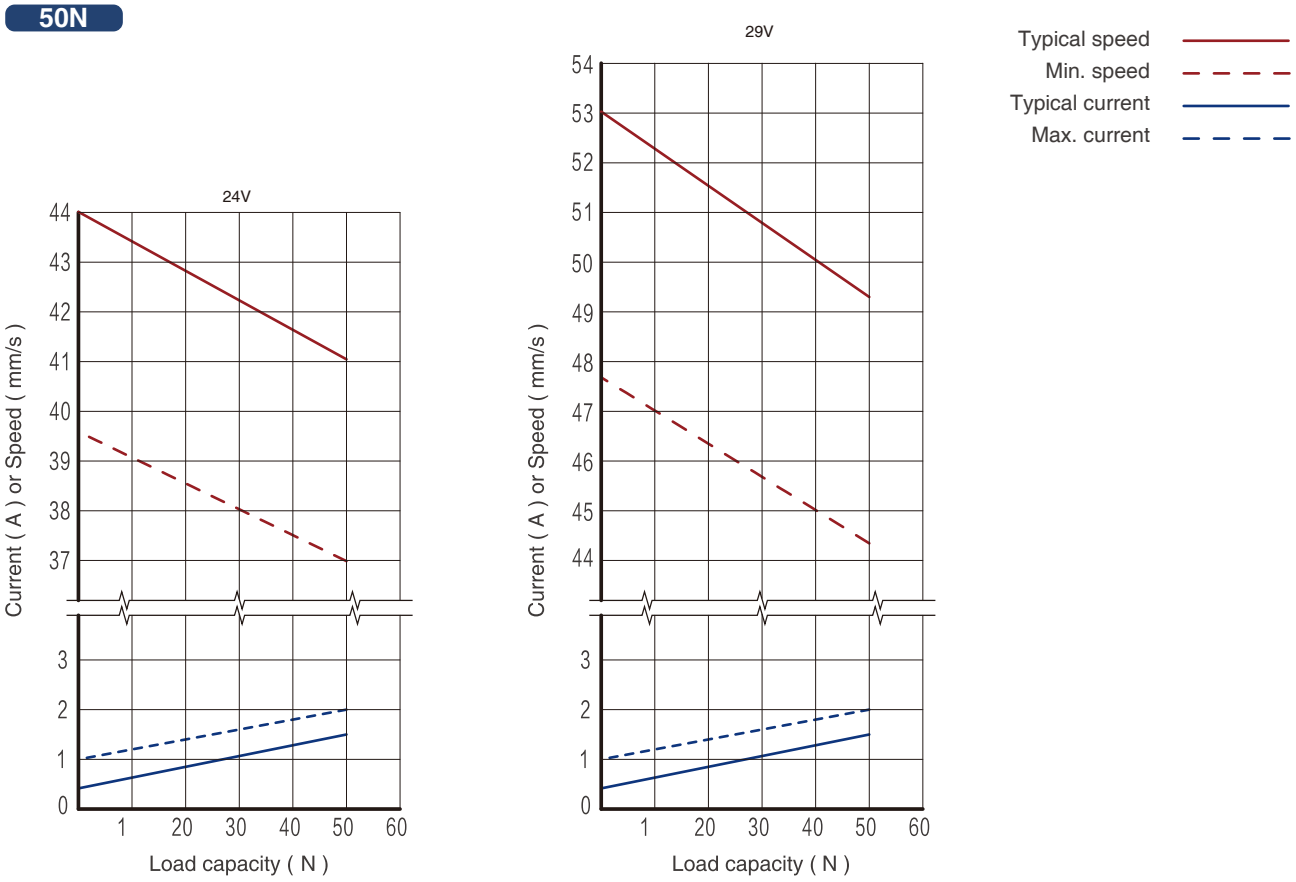
Remarks: It can achieve better self-locking ability with Jiecang control box;
The above data is the standard value of the test data (inspection specification) at room temperature of 25°C.

Diagram of relationship between stoke length and load

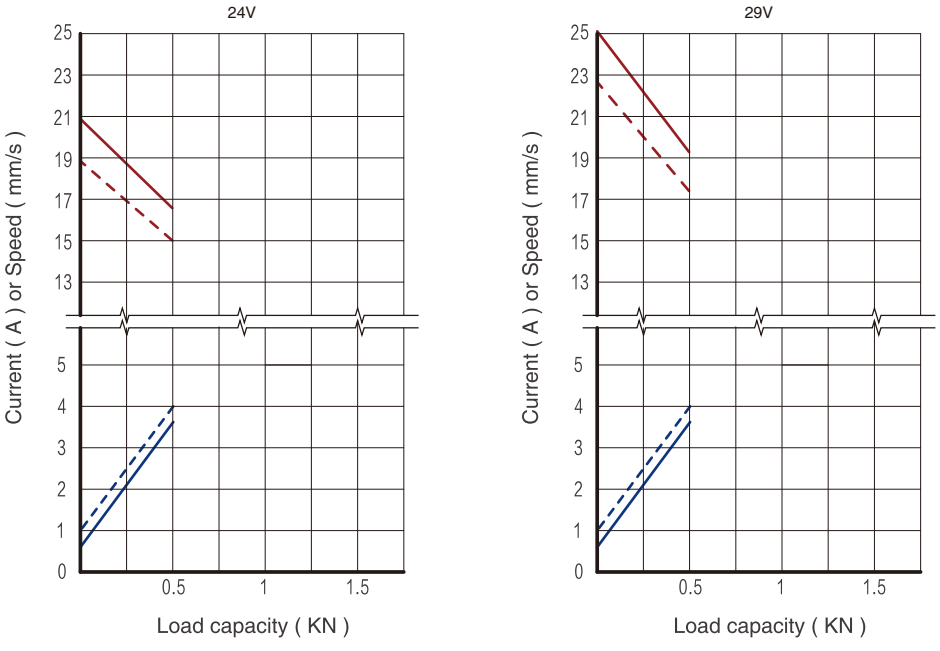


Characteristic Curve

50N

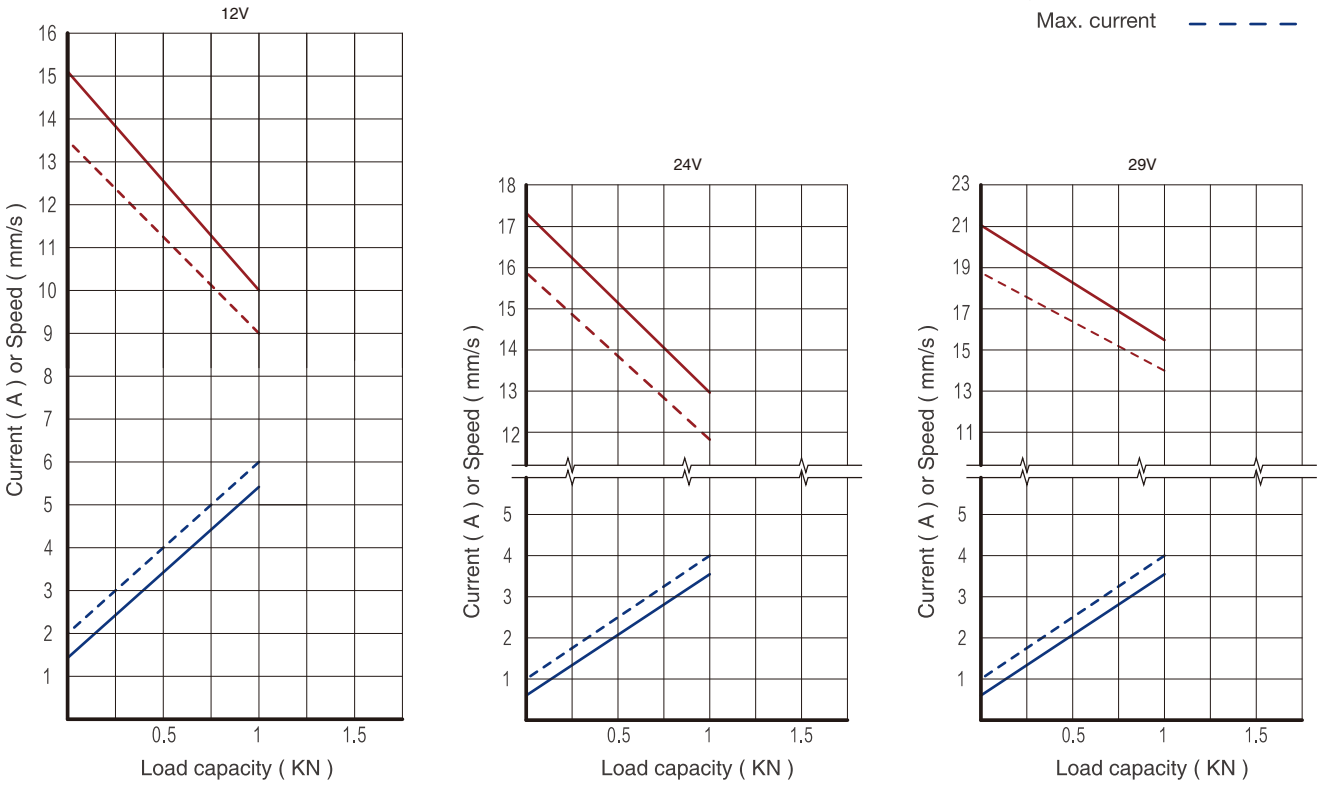


500N

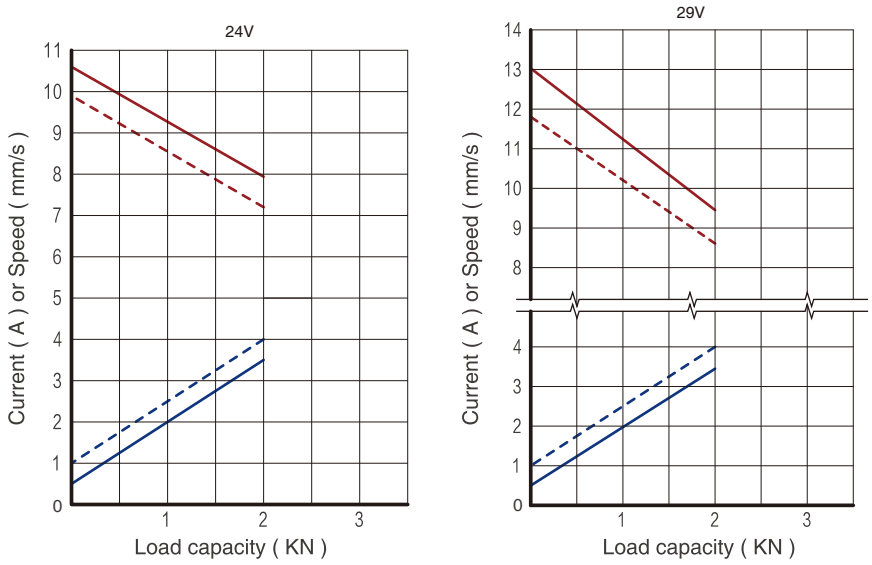


1000N

Typical speed
Min. speed
Typical current
Max. current

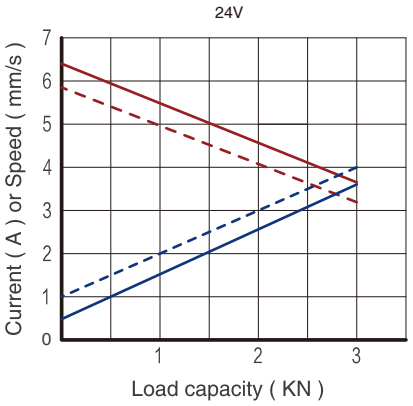


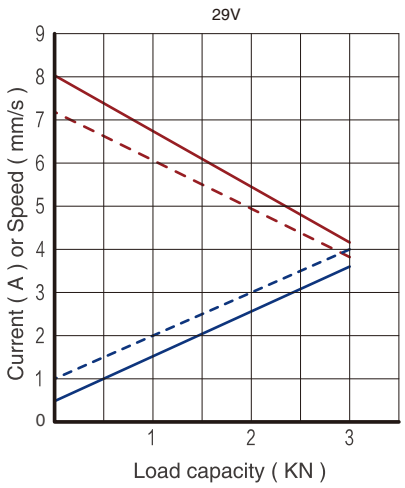
2000N



3000N

Typical speed
Min. speed
Typical current
Max. current





Ordering Example

Take **JC35L6033D524200/330HGB06SF090022D0** for example

Model	**JC35L6**	
Optional features	**X**	P = Only push no pull / Y = Hall sensor PY = Hall sensor +Only push no pull
Load in push	**X**	3 = 3000N / 2 = 2000N / 1 = 1000N / 0D5=500N / 0D05 = 50N
Speed at full load	**X**	3D5 = 3.5mm/s 8 = 8mm/s 13 = 13mm/s 42 = 42mm/s 16 = 16mm/s
Input voltage	**XX**	24 = 24VDC / 12=12VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Installation dimensions = XXX
Clevis directions	**X**	H = H direction / V = V direction
Color	**X**	B=Black / G=Gray
End clevis specification	**XX**	B05 = Slot width 6.5, slot depth 26, hole diameter Φ10.1, black B06 = Slot width 6.5, slot depth 26, hole diameter Φ10.1, gray
End clevis material	**S**	S = Plastic
Top clevis specification	**XX**	F08 = Plastic bushing (30013914) + plastic bushing (30032089), hole diameter Φ10.1, black RAL9005 F09 = Plastic bushing (30013914) + plastic bushing (30032091), hole diameter Φ10.1, gray RAL7035 F10 = OD 22, internal thread M8×1.25, no hole, no groove
Brake specification	**0**	0 = No brake
Type of plug and cable	**XX**	02 = 4 pin DIN plug and 2 pin straight cable 10 = 5 pin DIN plug and 6 pin straight cable 21 = 6 pin Mini-Fit elbow plug
Cable length	**XXX**	0D5 = 0.5m / 1D5 = 1.5m / 2D0 = 2m

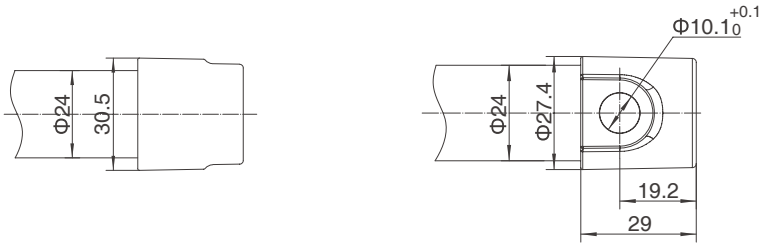
Ordering Details

Dimension drawing of clevis

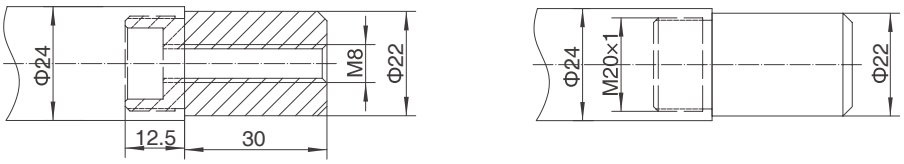
End clevis



Top clevis: F08 / F09

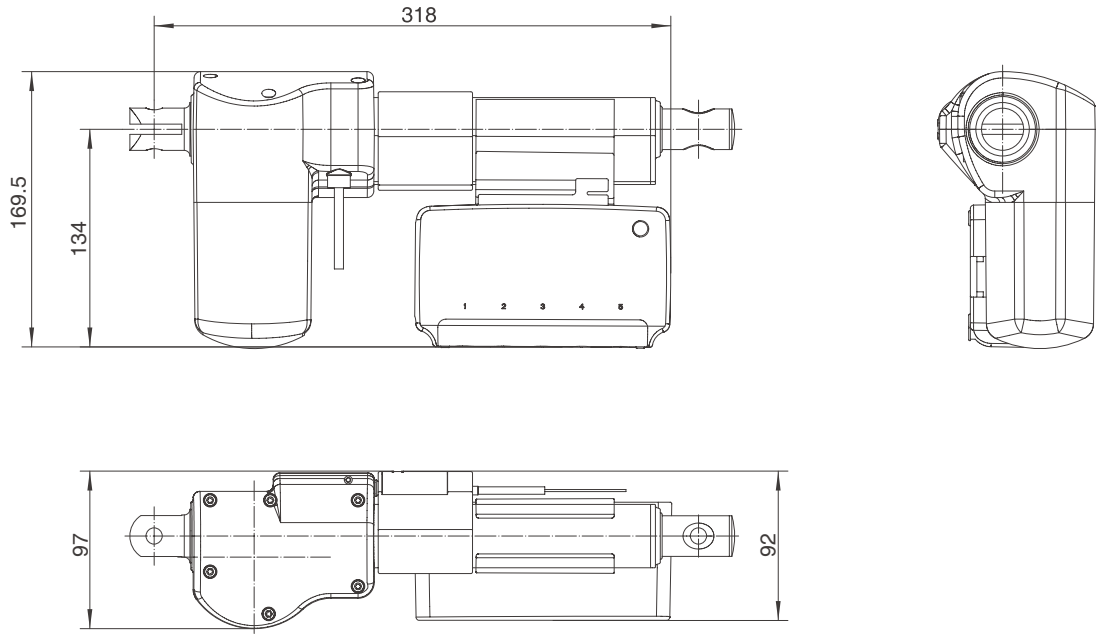


Top clevis: F10

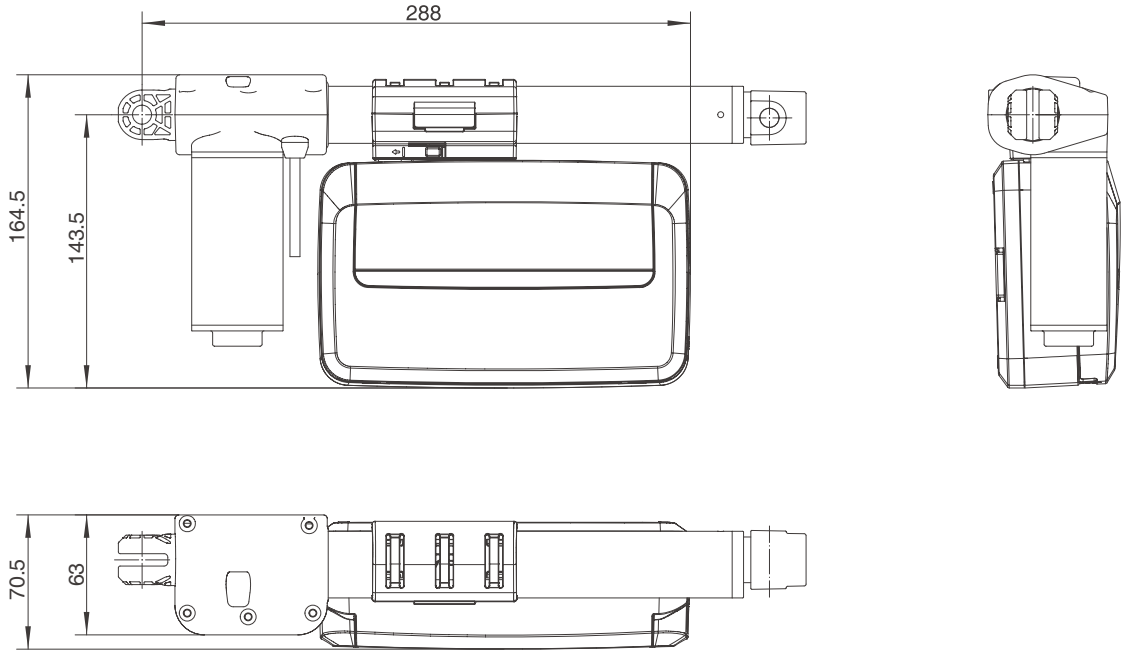


Dimensions JC35L6 with control box

JCB35Q2 install on JC35L6



JCB35T2 install on JC35L6



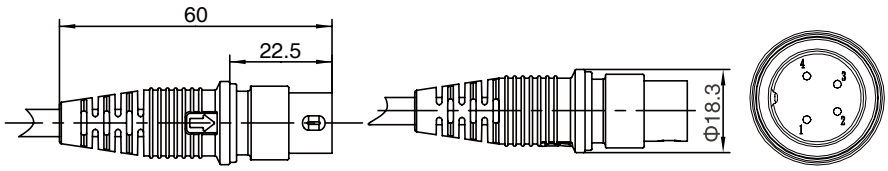
Motor wire

4-pin straight plug (standard)

Matching 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



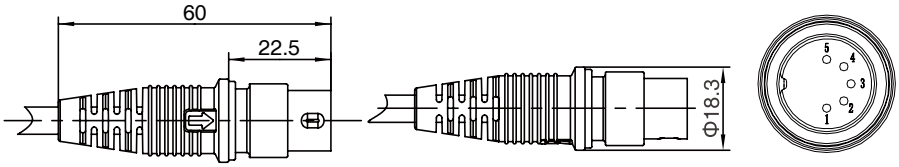


5 pin DIN plug (with Hall sensor)

Matching 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

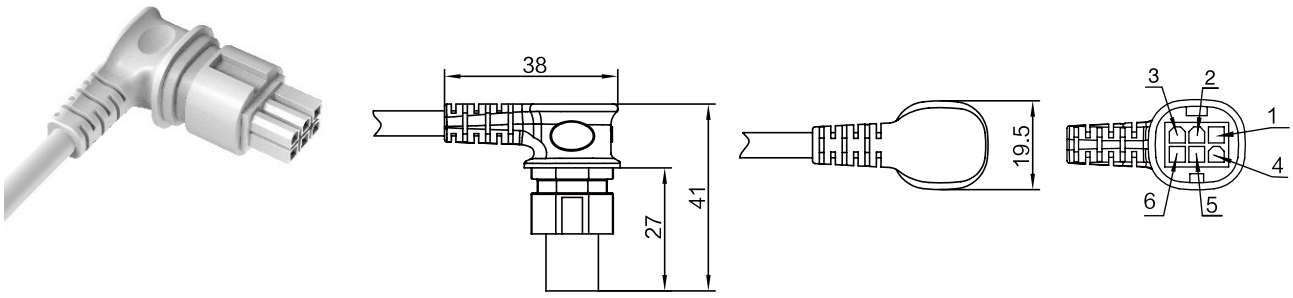




6 Pin Mini-Fit elbow plug

Matching 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



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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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