JC35K1 Linear Actuator

JC35K1 is a compact and powerful actuator with low noise and thrust up to 8000N.
JC35K1 is equipped with manual operation, which is a professional choice for patient lift.



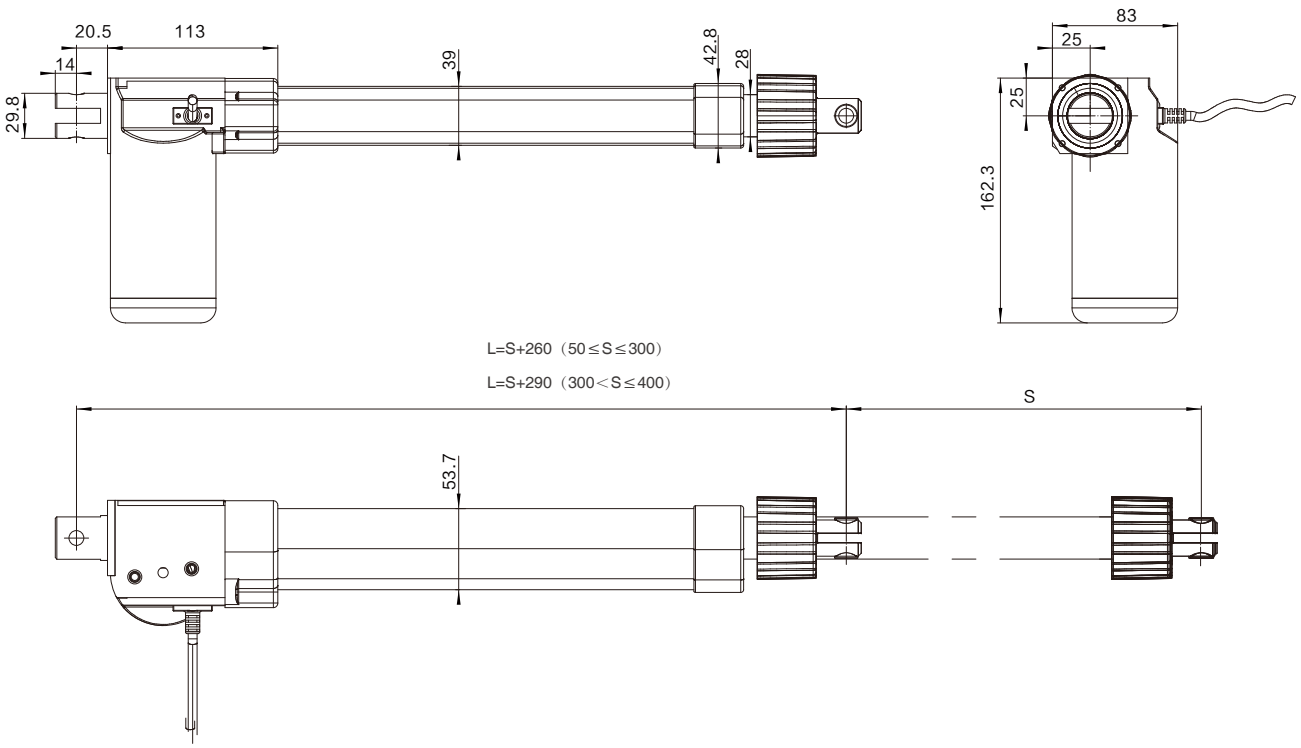
Features And Options

Dynamic Load Push(N):	8000
Colour:	Gray
Protection Class:	IP54
Stroke Length:	8000N: 50-400mm
Installation Dimension:	L=S+260（50≤S≤300） L=S+290（300＜S≤400）
Noise Level:	≤48dB, (environmental noise≤40dB)
Optional:	Hall sensor, Only push, Manual operation
Limit Switch:	Built-in (electronic)
Weight:	About 2kg (different stroke length and installation dimensions with different weight)

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

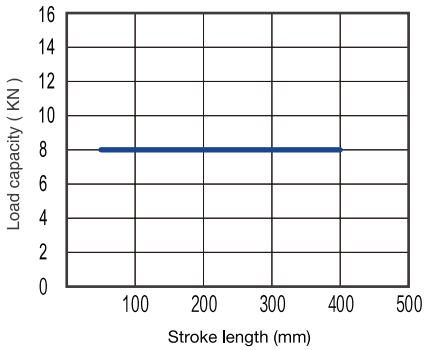


Technical Specifications (Standard Value)

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	3	8000	/	8000	4.6/3.3	≤7.0
29	3	8000	/	8000	5.5/4.0	≤7.0
24	4	8000	/	8000	5.8/4.0	≤9.0
29	4	8000	/	8000	7.0/4.8	≤9.0

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.

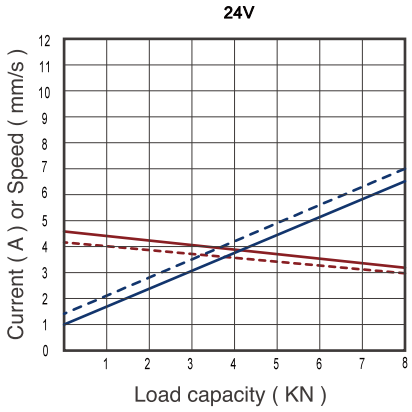
Diagram of relationship between stroke length and load

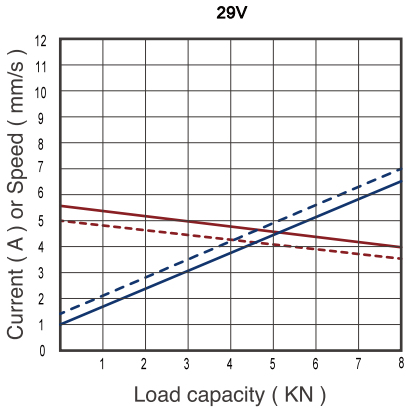


Characteristic Curve

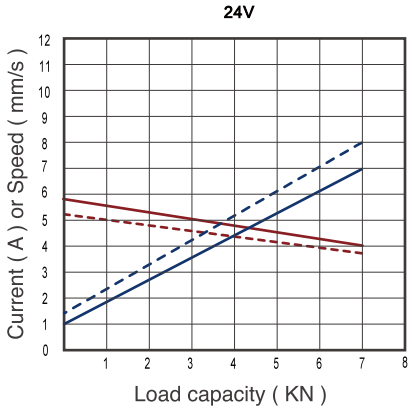
Typical speed
Min. speed
Typical current
Max. current

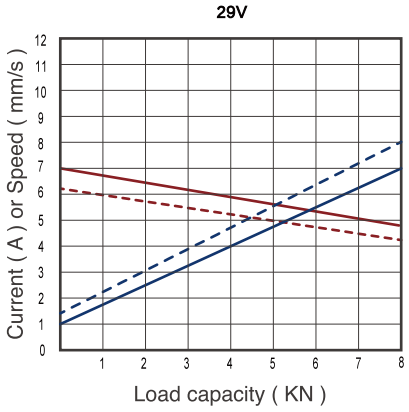
8000N





8000N (Only push no pull function upgrade)





Ordering Key

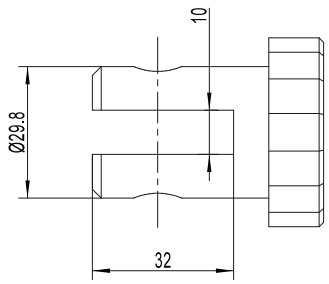
Take **JC35K1X8429300/560HGGTF282021D0** as an example

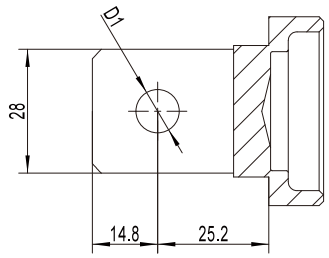
Model	**JC35K1**	
Optional features	**X**	0 = Standard / P = Only push / Y = Hall sensor PY = Only push + Hall sensor SY = Safety nut + Hall sensor X = Manual operation + Only push + Safety nut
Load in push	**XXX**	8 = 8000N
Speed at full load	**XX**	3D3 = 3.3mm/s 4=4mm/s 4D8=4.8mm/s
Input voltage	**XXX**	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
End clevis specification	**X**	G = slot 10, depth 32, hole diameter is 10.1
End clevis material	**X**	T = Split steel
Front clevis specification	**XX**	F60 = φ10.1 with plastic bushing
Brake specification	**X**	2 = brake in push
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**	1D0 = 1m

Ordering Details

Dimensions of clevis

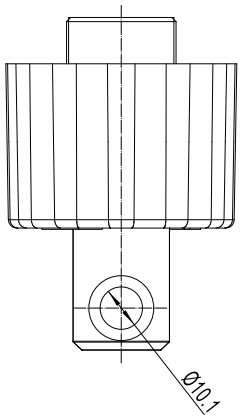
End clevis: G

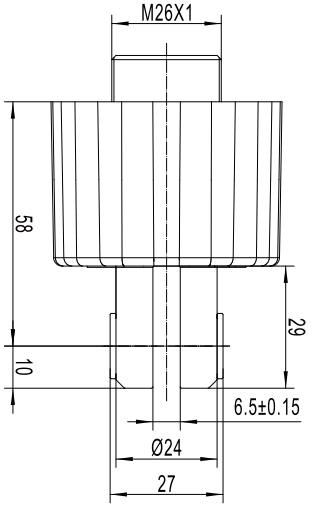




Hole Dimension of Steel End Clevis D1	
D1	Note
$12.5_{0}^{+0.1}$	
$10.1_{0}^{+0.1}$	
$12.1_{0}^{+0.1}$	

Front clevis: F60





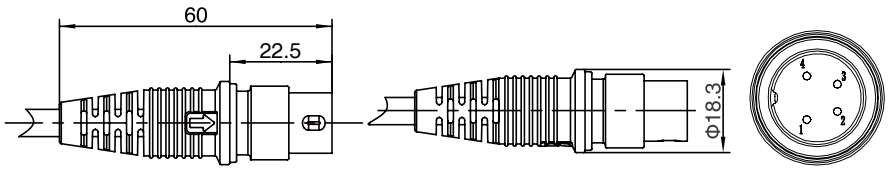
Motor cable

4 Pin Din connector (standard)

Supporting control box :
JCB35Q / JCB35T / JCB35R /
JCB35R1 / JCB35S / JCB35K2

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



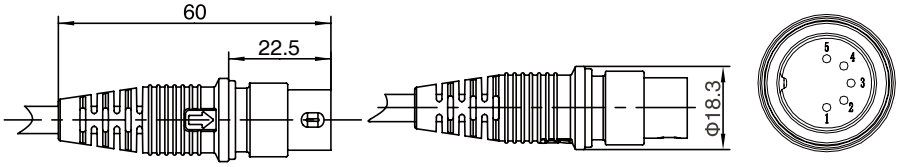


5 Pin DIN connector (with Hall sensor)

Supporting control box :
JCB35Q / JCB35T / JCB35R /
JCB35R1 / JCB35S / JCB35K2

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

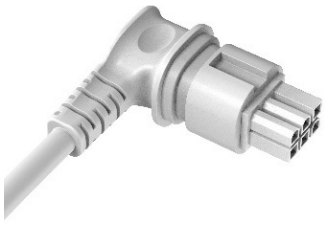


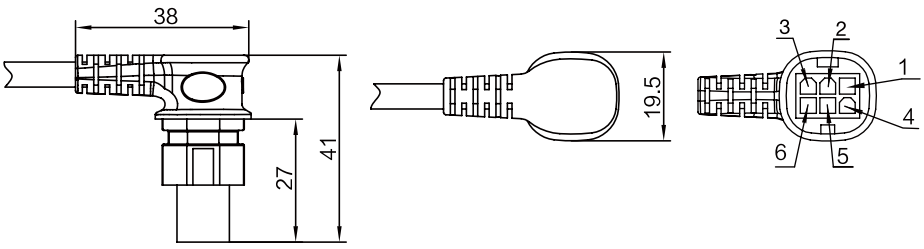


6 Pin Mini-Fit elbow connector

Supporting control box :
JCB35T2 / JCB35T3 / JCB35Q3 / JCB35K3

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.

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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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