JC35W5 Linear Actuator

JC35W5 is a powerful, durable yet compact actuator which can perform well at some technical applications.
With static water-proof performance of IP67 and qualified tests of 480h of neutral salt spray test, JC35W5 has good performances in corrosion resistance.



Features And Options

Dynamic load push(N):	3000 | 2000 | 1000
Dynamic load pull (N):	2000 | 1000 |
Colour:	Black
Protection class:	Max. IP67
Stroke Length:	3000N: 50-250mm 2000N: 50-400mm 1000N: 50-400mm
Installation Dimension:	L = 170(S≤50) L = S+120(50≤S≤400)
Noise Level:	≤55dB, (environmental noise≤40dB)
optional:	Hall sensor
Limit Switch:	Built-in (electronic)
Weight:	About 1.413kg (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

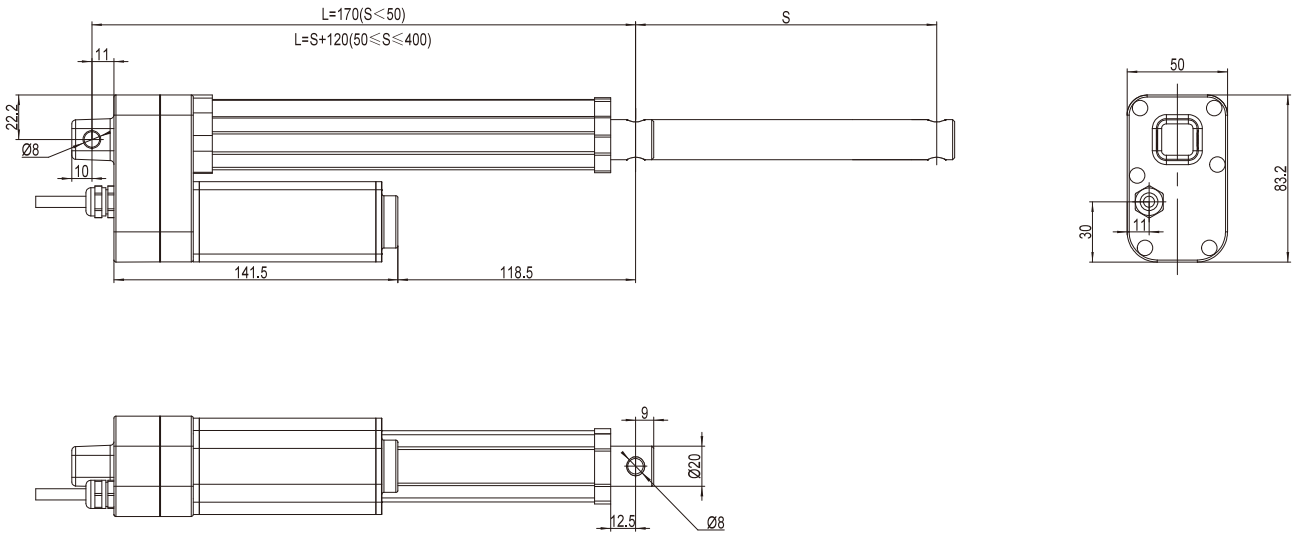
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5°C to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JIECANG control boxes
Relative Humidity:	20% to 90% at 30 °C, non-condensing
Atmospheric Pressure:	700 to1060hPa

Additional use in industry

Duty Cycle:	10%, max. 2min.continuous working and 18 min.off
Operating Temperature:	-30°C~70°C, Static IP67 test qualified

The vibration standard is GBT31467.3-2015. After the vibration is completed, the IP67 test is qualified, and the linear actuator works normally.
After 480 hours of salt spray test, the IP67 test is qualified, and the linear actuator works normally.
The linear actuator extends and retracts once under the push-pull load of 200KG. The number of tests is 20,000 times and the IP67 test is qualified. The linear actuator works normally.

Dimensions

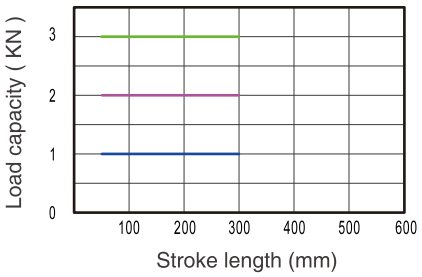


Technical Specifications (Standard Value)

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)
12	4	2000	2000	1500	7/5	≤6
24	4	3000	2000	3000	7.4/5	≤5
24	7.5	2000	2000	1500	13.2/9	≤5
24	10	1000	1000	600	18.2/13.5	≤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.

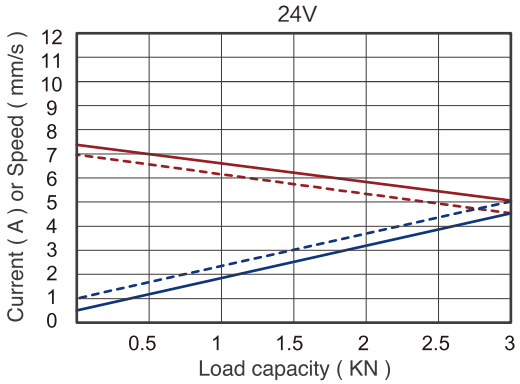
Diagram of relationship between stroke length and load



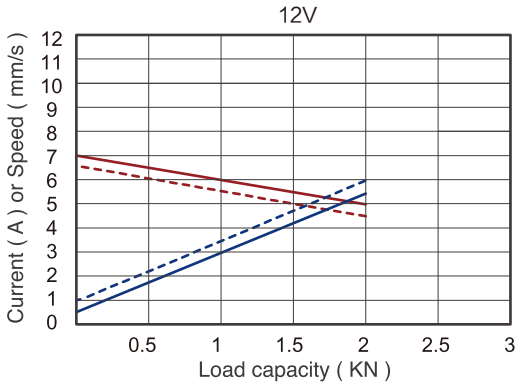
Characteristic Curve

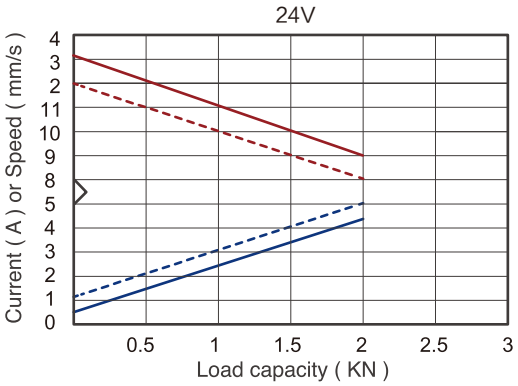
Typical speed
Min. speed
Typical current
Max. current

3000N

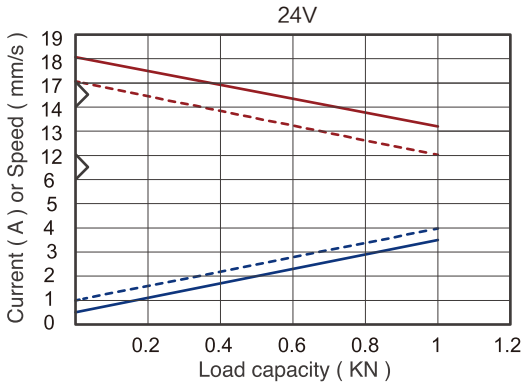


2000N





3000N



Ordering Key

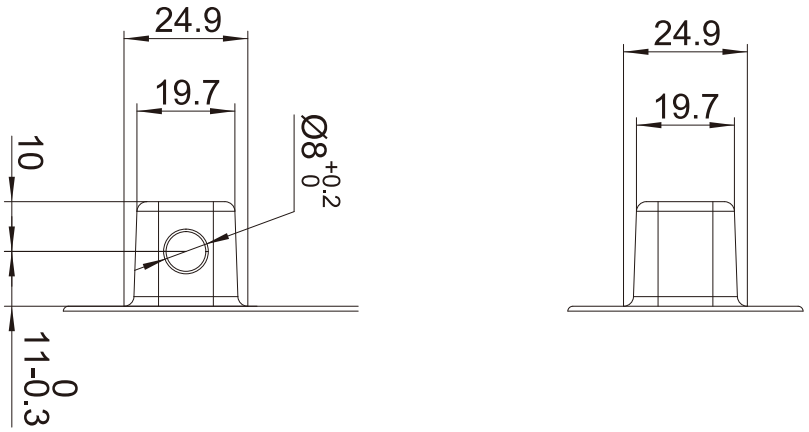
Take **JC35W502412150/270/VB37LF470020D5** as an example

Model	**JC35W5**	
Optional features	**X**	0 = Standard / Y = Hall sensor
Load in push	**X**	3 = 3000N / 2 = 2000N / 1 = 1000N
Speed at full load	**X**	4D5 = 4.5mm/s
Input voltage	**XX**	12 = 12VDC / 24 = 24VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Installation dimension = XXX
Clevis directions	**X**	H=horizontal V=vertical (to motor direction)
Colour	**X**	B = Black
End clevis specification	**X**	37 = hole diameter 8.0
End clevis material	**X**	L = Aluminium alloy
Front clevis specification	**X**	F47 = hole diameter 8.0
Brake specification	**X**	0 = Standard
Type of connector and cable	**XX**	02 =4 Pin Din connector 10= 5 Pin Din connector
Cable length	**XXX**	2D0 = 2m / 0D5 = 0.5m

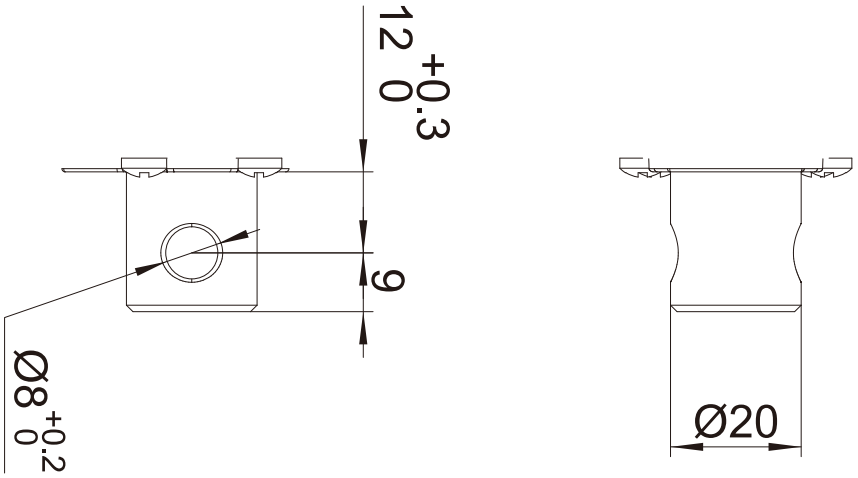
Ordering Details

Dimensions of clevis

End clevis: 37



Front clevis: F47



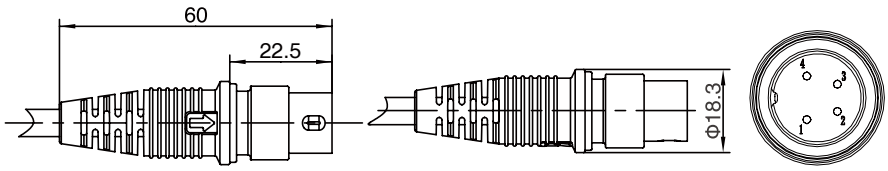
Motor cable

4 Pin Din connector (standard)

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

Pin	Colour	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



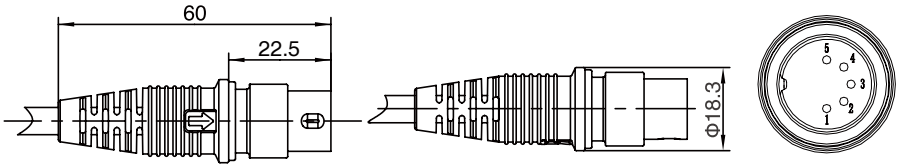


5 Pin Din connector (with Hall sensor)

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

Pin	Colour	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





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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