JC35EG-2 Lifting Column



1. JC35EG-2 is a 3-stage round column with high load capacity which is up to 2500N for vertical lifting. With compact structure and elegant design, JC35EG-2 is widely applied to demanding applications like ICU hospital beds.

2. Several signal feedback models are optional for JC35EG-2: hall sensors or potentiometer.

Features And Options

Dynamic Load Push(N):	2500N
Dynamic Load Pull (N):	0
Colour:	Plastic spraying cream white; anodized aluminium
Protection Class:	IPX6
Stroke Length:	50≤S≤400mm
Installation Dimensions:	L=S/2+150
Noise Level:	≤45dB (environmental noise ≤40dB)
Safety Nut:	Standard
Hall Sensor:	Optional
Potentiometer:	Optional
Cable Outlet:	Side of top outlet, Side of end outlet
Built-in Electronic Limit Switch:	Yes
Weight:	About 6kg (different stroke / installation dimension with different weight)
Maximum Dynamic Bending Moment:	200N*m
Maximum Static Bending Moment:	200N*m
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:	Under 30°C, 20% to 90%, non-condensing
Atmospheric Pressure:	700 to1060hPa

Technical Data-Standard value

Input voltage (VDC)	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)
24	6+6	2500	0	2500	16.5/12.4	⩽6.5
29	6+6	2500	0	2500	20/15	⩽6.5
36	6+6	2500	0	2500	24.8/18.6	⩽6.5

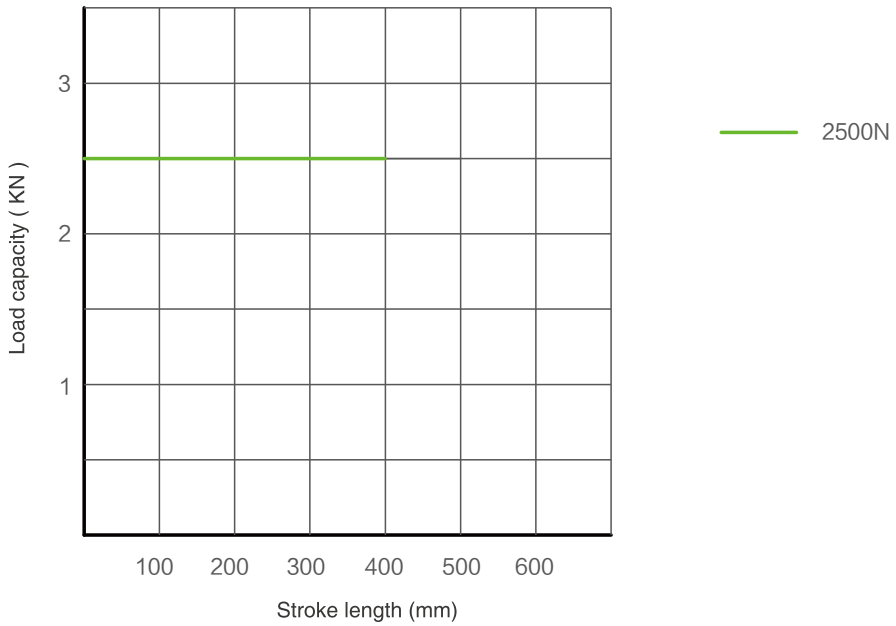
Remarks: It can achieve better self-locking ability with Jiecang control box;
The above data is the standard value of the test data (inspection specification) at room temperature of 25°C.

Ordering Example

Take **JC35EG-2Y02D51529400/350O0931D510W** for example

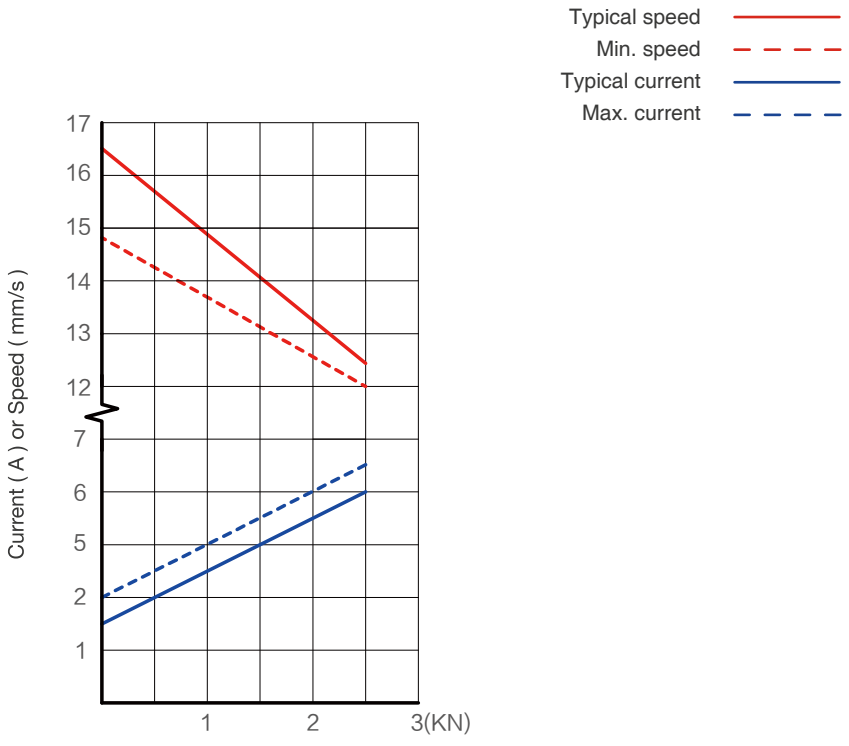
Model	**JC35EG-2**	
Optional features	**X**	S=safety nut D=potentiometer feedback Y=Hall sensor SY=Hall sensor+safety nut SD=potentiometer feedback+safety nut
Profile code	**X**	0 = Standard
Load in push	**X**	2D5=2500N
Speed at full load	**X**	15=15mm/s
Input voltage	**XX**	29=29VDC
Stroke length/ Installation dimensions	**XXX/XXX**	Stroke length=XXX Installation dimensions =XXX
Mounting plate code	**X**	O=220*96*12
Cable outlet	**X**	0 =Side of top outlet 2 =Side of end outlet
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**	0D5=0.5m 1D5=1.5m 2D0=2.0m
Surface treatment	**XX**	10: Plastic spraying treatment 12: Ordinary anodized treatment
Color	**X**	W= cream white / G=Gray

Diagram of relationship between stroke length and load



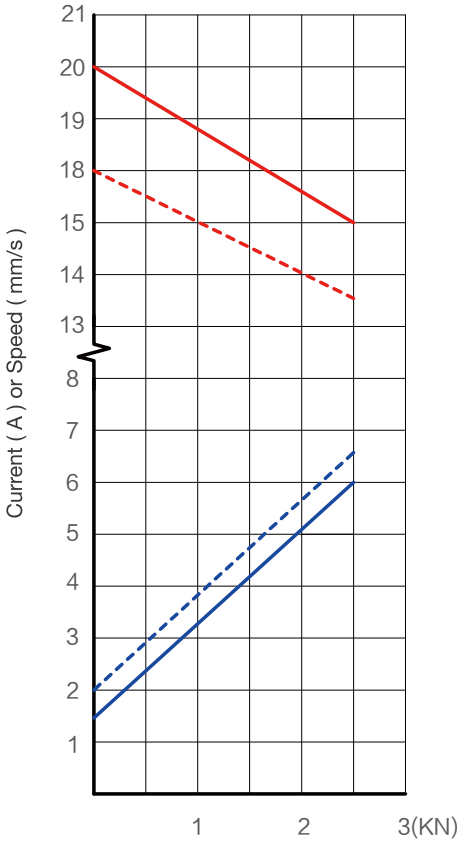
Characteristic Curve

JC35EG-2-3000N-24VDC

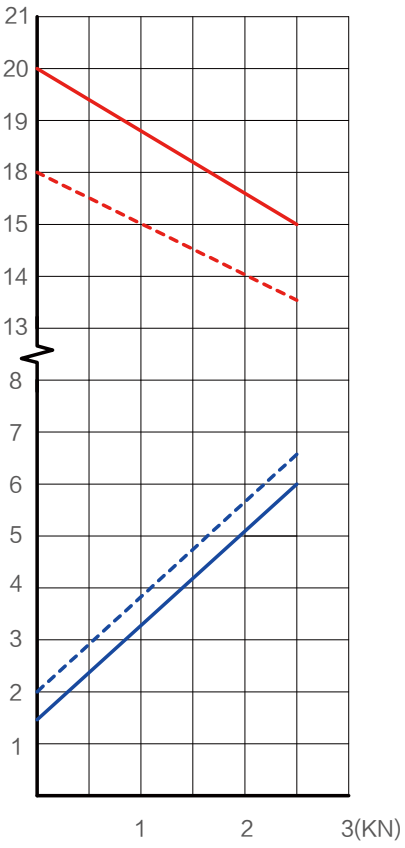


Characteristic Curve

JC35EG-2-3000N-29VDC

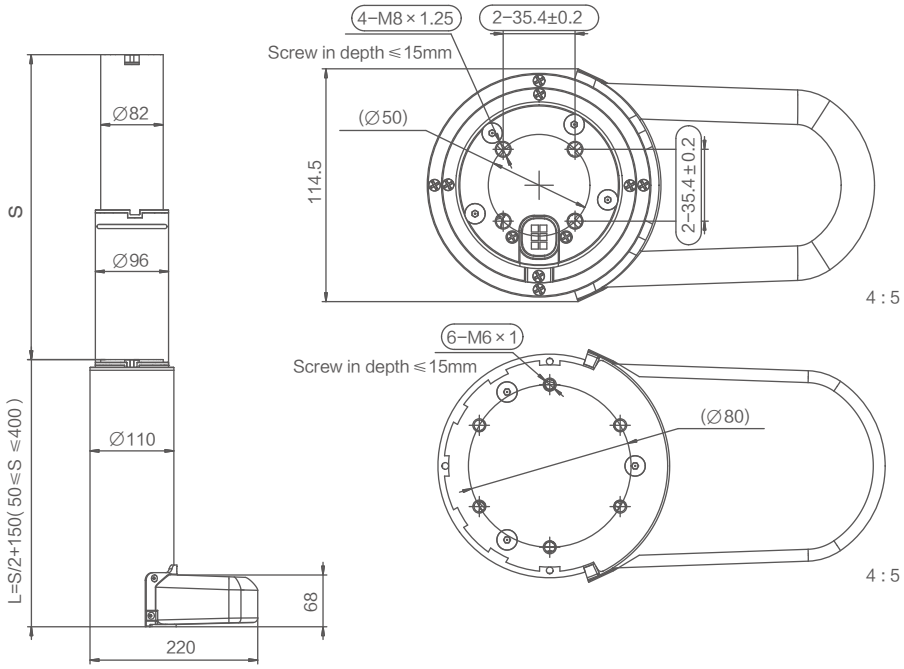


JC35EG-2-3000N-36VDC



Ordering Details

Dimension drawing of clevis



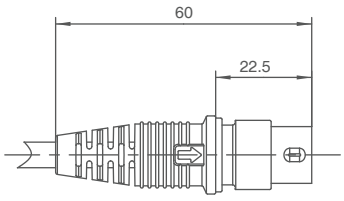
Motor cable

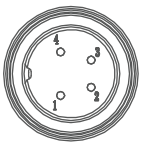
4-pin DIN plug (standard actuators)

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

Pin	Color	Functions
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





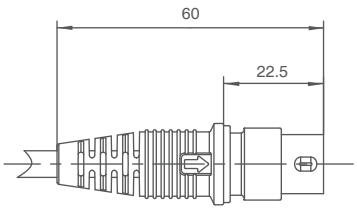


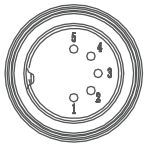
5 pin DIN plug

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

Pin	Color	Functions
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





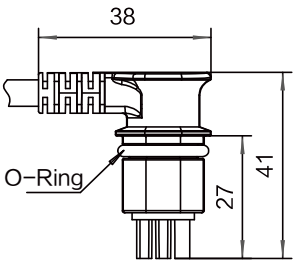


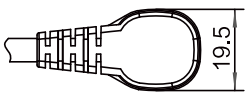
6 Pin Mini-Fit elbow connector

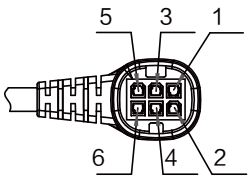
Supporting control box :
JCB35T2 / JCB35T3 / JCB35Q3

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









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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