

# JC35EA3C Lifting column

# JC35EA3C-R Lifting column



1. JC35EA3C is a 3-stage lifting column who is a preferable choice, for example, hospital beds, nursing beds, treatment chairs, couches and dental chairs. JC35EA3C has a compact structure and is equipped with a plug to connect an exchangeable cable with a Mini-Fit connector. This allows the possibility of ordering standard columns and combining them with different cable lengths.
2. Protection class: Max. IPX6
3. Safety factor: equipped with safety nuts

## Features And Options

<b>Input Voltage:</b>	29VDC
<b>Max. Dynamic Load Push(N):</b>	3C:2000N 3C-R:2500N
<b>Installation Dimension:</b>	350±3mm
<b>Stroke Length:</b>	400±3mm
<b>Current At No Load:</b>	≤2.5A
<b>Current At Full Load:</b>	3C ≤5.0A 3C-R ≤7.0A
<b>Speed At No Load:</b>	19mm/s ± 10%
<b>Speed At Full Load:</b>	3C: 16mm/s±10% 3C-R: 14mm/s ± 10%
<b>Static Bending Moment:</b>	3C: 500NM 3C-R: 700NM
<b>Dynamic Bending Moment:</b>	3C: 250NM 3C-R: 350NM
<b>Colour:</b>	Anodized aluminium / spraying milky white
<b>Protection class:</b>	Max.IPX6
<b>Self-locking force:</b>	Max. 2500N
<b>Weight:</b>	About 10.8kg (Stroke/Installation distance: 400/350mm, weight varies with different stroke/Installation distance)
<b>Noise level:</b>	≤50dB (environmental noise ≤40dB)
<b>Approval:</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

Usage

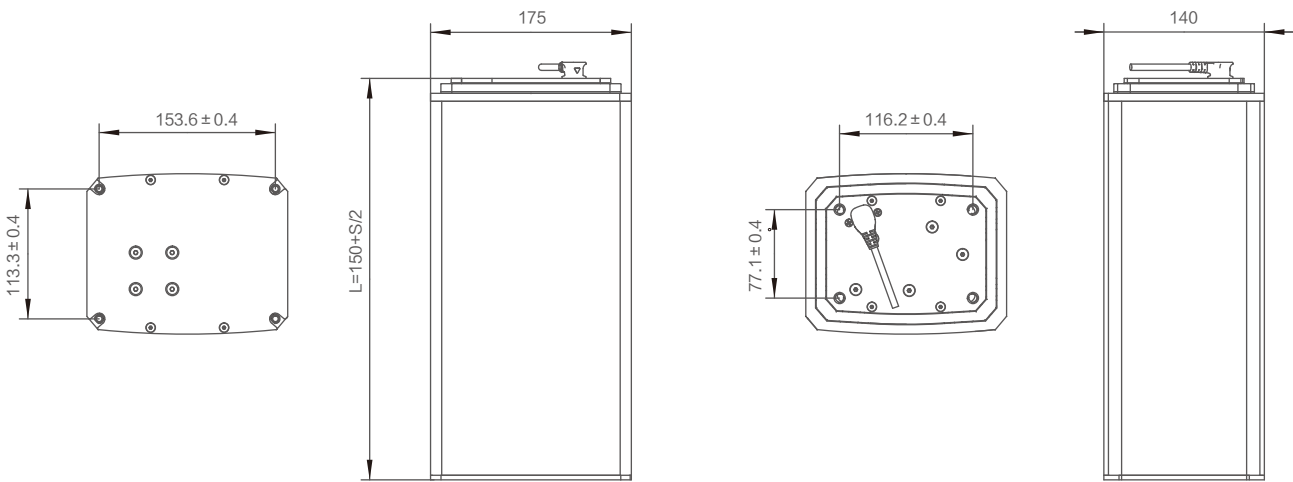
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. Off
Operating Temperature:	+5°C to+40°C
Reserve Temperature:	-10-50°C
Relative Humidity:	20%-90% at 30°C, non-condensing
Atmospheric Pressure:	700-1060 hPa

Technical Specifications (Standard Value)

	Input voltage (VDC)	Max.load in push (N)	Dynamic/static bending moment (NM)	Speed at no load /full load (mm/s)	Current at no load/full load (A)	Stroke and retracted calculation	Stroke and Installation dimension
JC35EA3C	29	2000	250/500	19/16	≤2.5/≤5	L=S/2+150	50-400
JC35EA3C-R	29	2500	350/700	19/14	≤2.5/≤7	L=S/2+150	50-400

Remarks: The above data is the standard value of the test data (inspection specification) at room temperature of 25°C .

Dimensions



## Ordering Key

Take **JC35EA3C/JC35EA3C-R** as an example

Model	<b>JC35EA3C/JC35EA3C-R</b>	
Optional features	<b>X</b>	0=Standard / Y=hall sensors
Profile code	<b>X</b>	E=#1, #2, #3 tubes
Load in push	<b>X</b>	2=2000N 2D5=2500N
Speed at full load	<b>XX</b>	16=16mm/s 14=14mm/s
Input voltage	<b>XX</b>	29V
Stroke length/Installation dimensions	<b>XXX/XXX</b>	Stroke length=400mm Installation dimension=350mm
Mounting plate code	<b>X</b>	0=Standard
Cable outlet	<b>X</b>	1= Top plate outlet
Type of connector and cable	<b>XX</b>	115=6 Pin EA waterproof female plug
Cable length	<b>XXX</b>	0DO=None
Surface treatment	<b>XX</b>	10: Plastic spraying treatment 11: Brushed oxidation (brushed and polished surface)
Colour	<b>X</b>	H: White RAL9016 G: Silver grey RAL9006

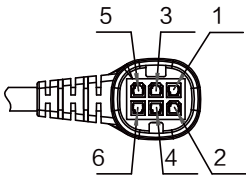
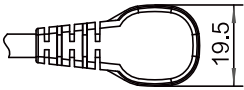
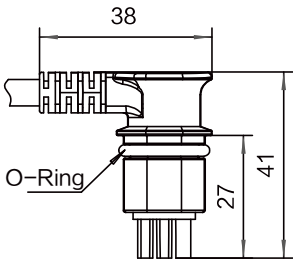
**Motor cable**

**6 Pin Mini-Fit elbow connector**

Supporting control box :  
JCB35T2 / JCB35T3 / JCB35Q3



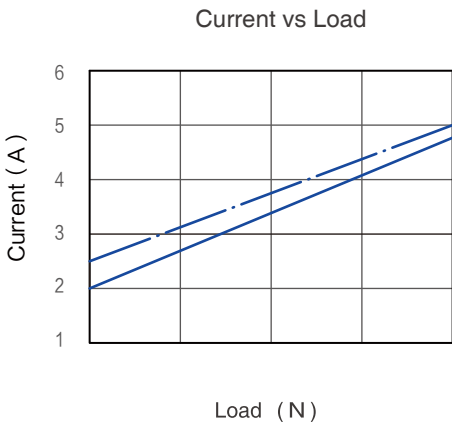
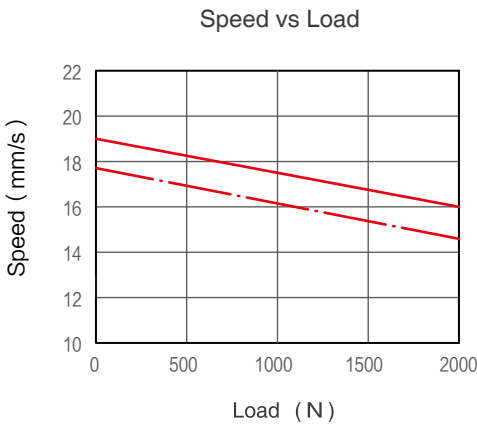
Pin	Color	Function
1	Orange	When not in the lower limit, it is connected with red
2	Brown	power with positive voltage, actuator going down
3	Black	When not in the upper limit, it is connected with yellow
4	Blue	power with positive voltage, actuator going up
5	Red	When not in the lower limit, it is connected with orange
6	Yellow	When not in the upper limit, it is connected with black



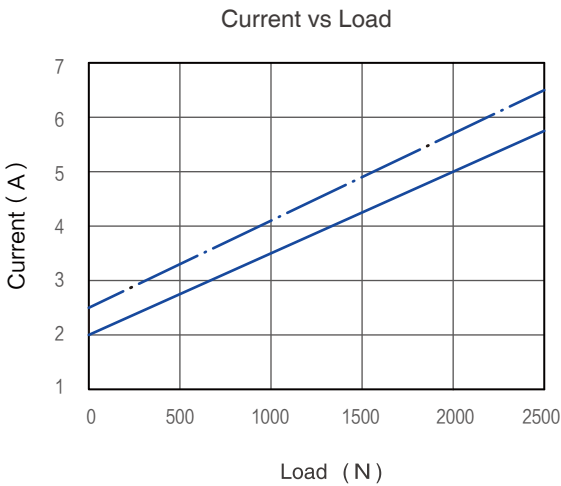
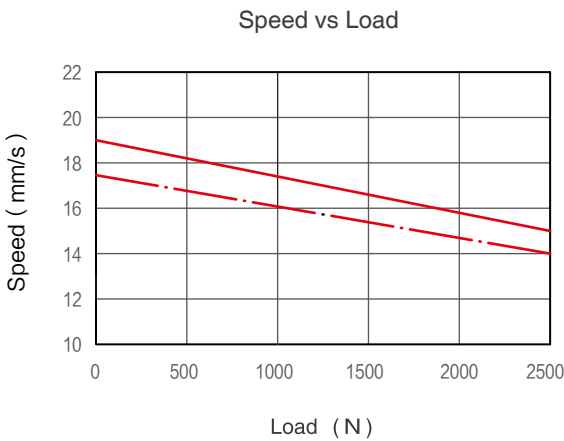
# Characteristic Curve

JC35EA3C(200N)

Typical speed    ———  
Min. speed      - - - - -  
Typical current   ———  
Max. current    - - - - -



JC35EA3C-R(2500N)





#### **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