

# JC35ES2 Lifting column

1. The JC35ES2 column is a square aluminum tube column with 2 sections; it is widely used in various workbenches, such as computer desks, instrument desks, workbenches and video screen systems, etc.; the maximum thrust also has a variety of options: 1000N, 2000N, 3000N, 4000N, 6000N;

2. The JC35ES2 column is characterized by large load and high strength.



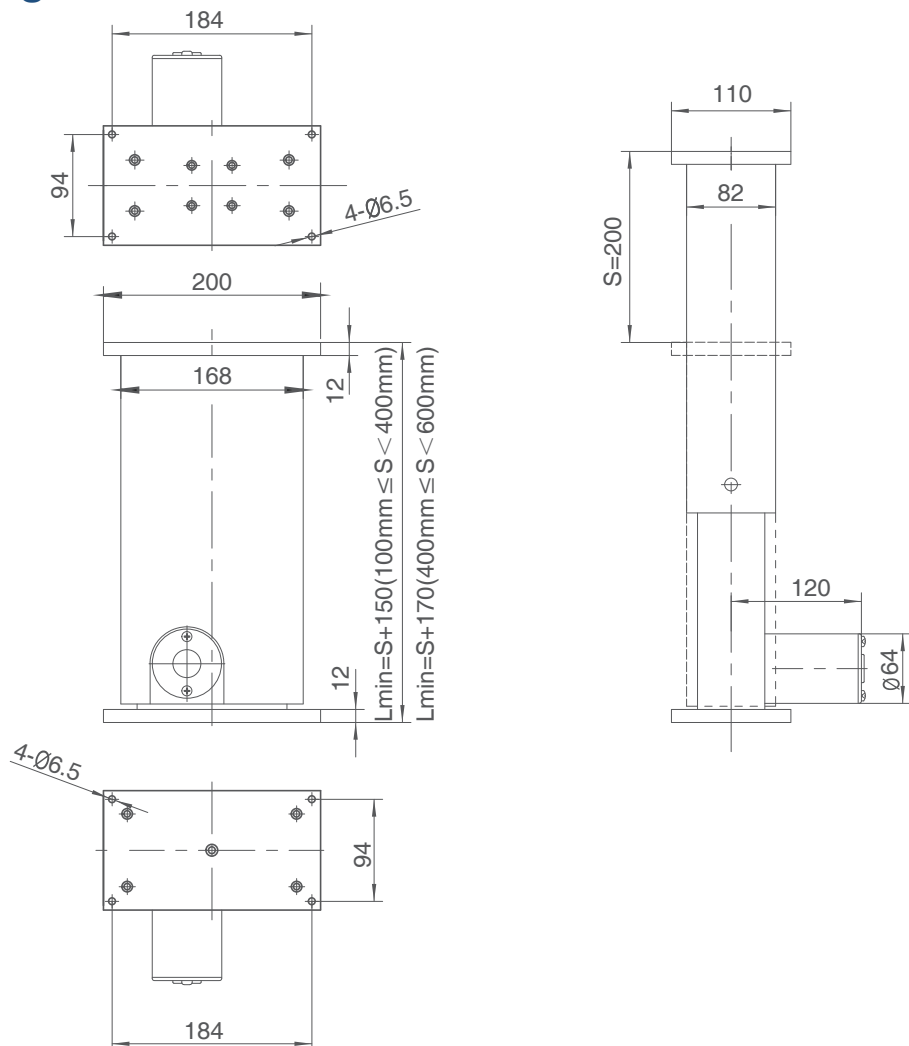
## Features And Options

<b>Load In Push:</b>	6000   4000   3000   2000   1000
<b>Color:</b>	Grey/ Black
<b>IP Grade:</b>	IP43
<b>Stroke Length:</b>	100-400mm (400-600mm, option)
<b>Installation Dimensions:</b>	Conventional : $L=S+150$ ( $100 \leq S < 400$ ) Special : $L=S+170$ ( $400 \leq S \leq 600$ )
<b>Noise Level:</b>	$\leq 65\text{dB}$ (environmental noise $\leq 40\text{dB}$ )
<b>Optional:</b>	Hall sensor Safety nut
<b>Limit Switch:</b>	Built-in (electrical)
<b>Weight:</b>	About 7.5kg(180/400) (different stroke length and installation dimensions with different weight)
<b>Static Bending Moment:</b>	500N·m
<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

<b>Duty Cycle:</b>	10%, max. 2min.continuous working and 18 min.off
<b>Operating Temperature:</b>	+5 °C to +40°C
<b>Reserve Temperature:</b>	-10°C~50°C
<b>Supporting Control Box:</b>	Match with JIECANG control box
<b>Relative Humidity:</b>	20% to 90% at 30 °C, non-condensing
<b>Atmospheric Pressure:</b>	700 to 1060hPa

## Dimension Drawing

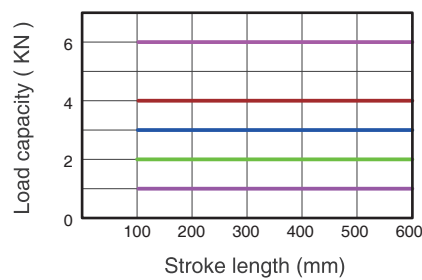


## Technical Data-Standard Value

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)
29	12	1000	/	800	36/25	≦ 5
29	5	2000	/	3000	15.5/11	≦ 5
29	7.5	3000	/	3000	11/7	≦ 5
29	5	4000	/	4000	8/5	≦ 5
29	4.0	6000	/	6000	6.5/4	≦ 5
24	12	1000	/	800	30/21	≦ 4.5
24	5	2000	/	3000	13/9	≦ 4.5
24	7.5	3000	/	3000	9/6	≦ 4.5
24	5	4000	/	4000	7/4.5	≦ 4.5
24	4.0	6000	/	6000	5.5/3.5	≦ 4.5
12	12	1000	/	800	30/20	≦ 9
12	5	2000	/	2000	13/8	≦ 9
12	5	4000	/	4000	8/4.5	≦ 10.1

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.

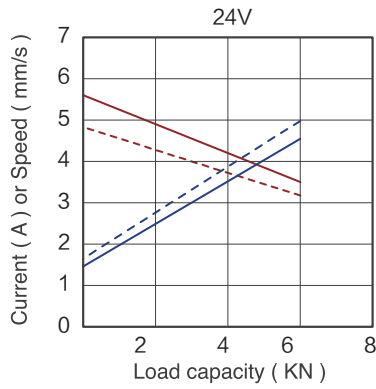
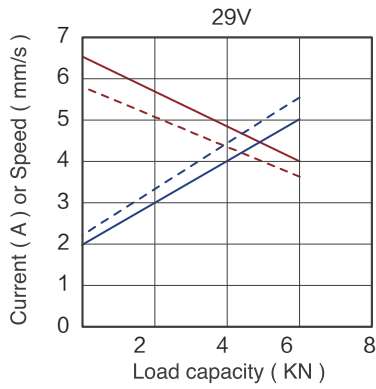
## Diagram of relationship between stroke length and load



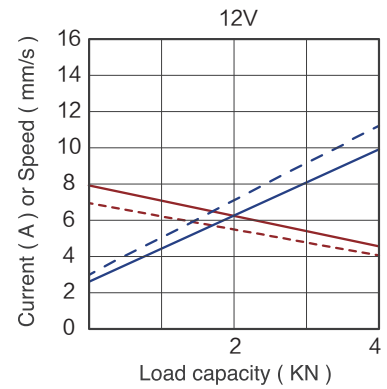
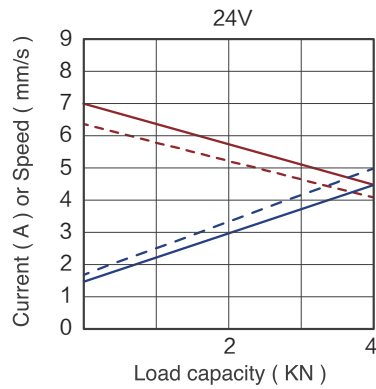
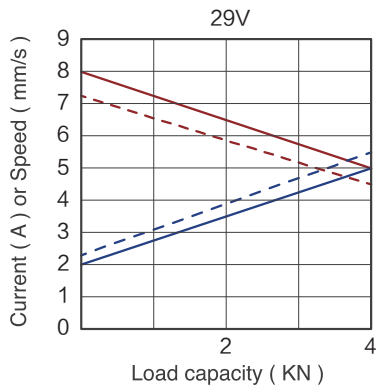
# Characteristic Curve

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

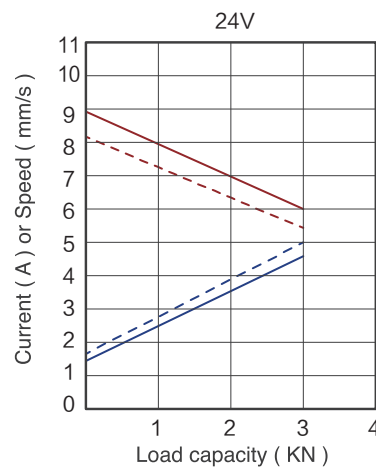
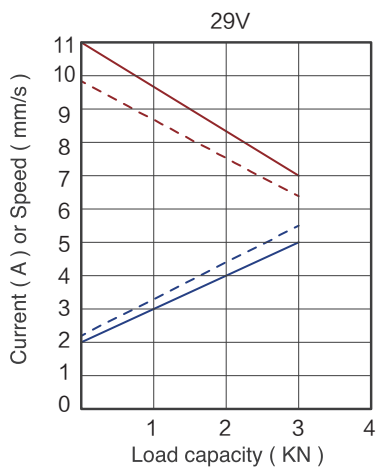
## 6000N



## 4000N



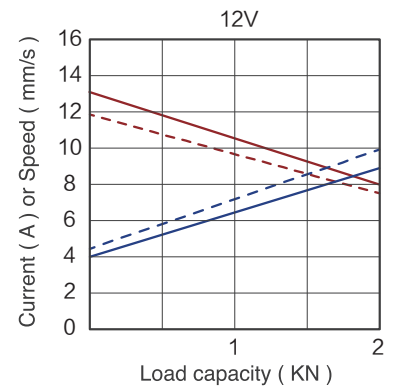
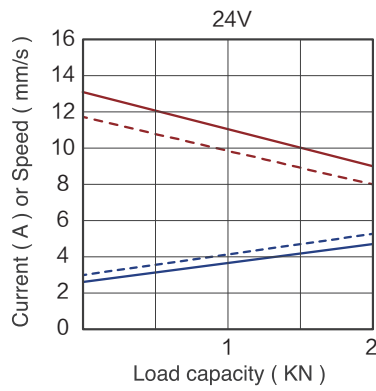
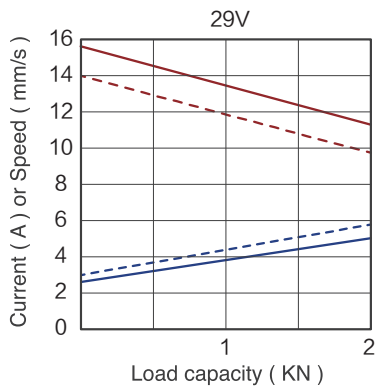
## 3000N



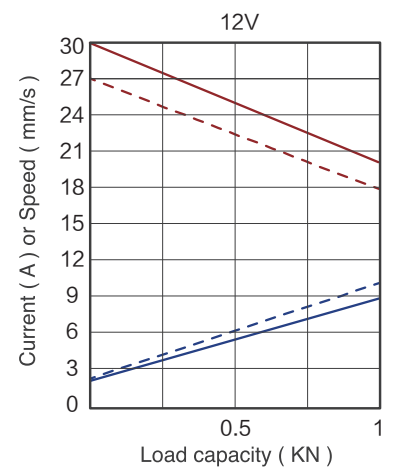
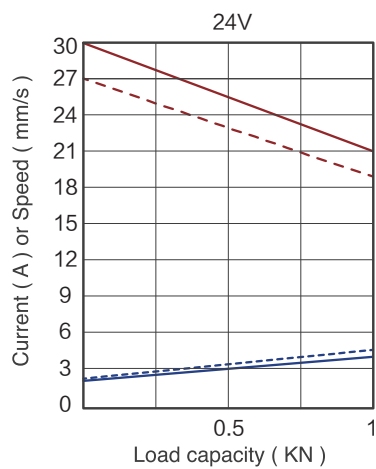
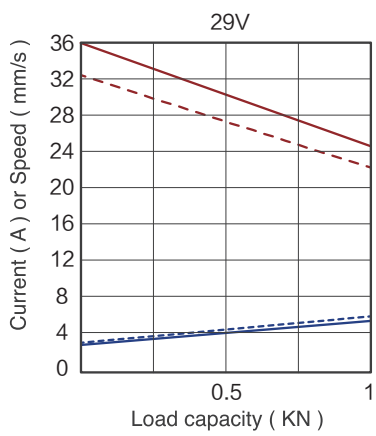
# Characteristic Curve

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

## 2000N



## 1000N



## Ordering Examples

Take **JC35W502412150/270/VB37LF470020D5** for example

Model	<b>JC35ES2</b>	
Optional features	<b>X</b>	0 = Standard / Y = Hall sensor
Profile code	<b>X</b>	A:1#,2# / B:2#,3# / C:3#,4# / D:4#,5# / E:1#,2#,3#
Load in push	<b>X</b>	6=6000N / 4=4000N / 3=3000N / 2=2000N / 1=1000N
Speed at full load	<b>XX</b>	20=20mm/s
Input voltage	<b>XX</b>	24=24VDC
Stroke length Installation dimensions	<b>XXX/XXX</b>	Stroke length=XXX Installation dimensions =XXX
Mounting	<b>X</b>	0=Standard, A=200×110×12,B=200×110×10
Connection position	<b>X</b>	0: Top side outlet / 1: Top mounting plate outlet / 2: Bottom side outlet
The type of the plug and cable	<b>X</b>	00: Microphone plug 2-core straight line 02: 4-core straight line 2-core straight line 06: 4-core bending and 2-core straight line 10: 5-core in-line 6-core straight line 14: 2-core straight line without plug 21: 6-core ET directly inserted into 6-core motor wire 36: 4-core silver fox directly inserted into 2-core motor wire
Cable length	<b>XXX</b>	0=None / 1=1M / 1D5=1.5M
Surface	<b>X</b>	7: Mirror oxidation (semi hard oxygen) 10: Plastic spraying treatment 11: Wire drawing oxidation (surface wire drawing and polishing) 12: Ordinary oxidation
Color	<b>X</b>	B: Black / G=Grey



### **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