



LIFTING COLUMN

JC35ES2

# 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.



**Stock Code:** JC35ES2-2-10-24-300-450  
JC35ES2-Y-2-10-24-400-570

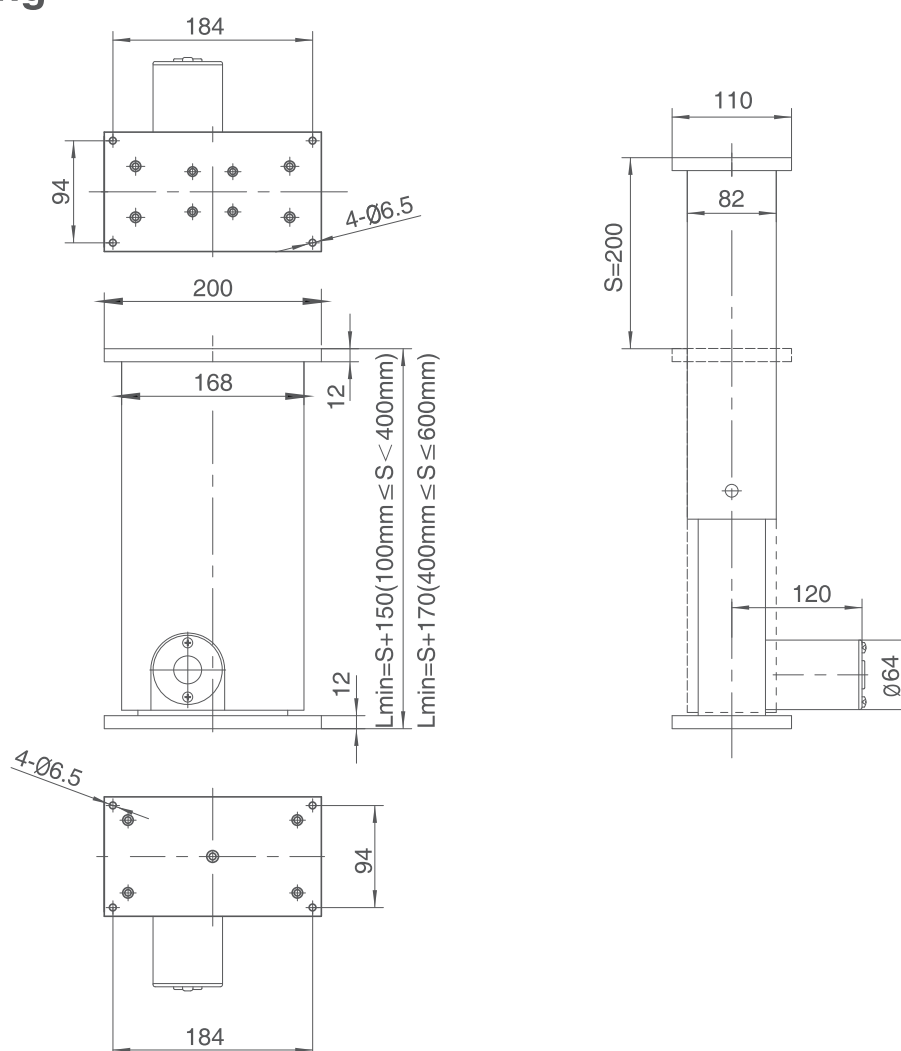
## Features And Options

|                                 |                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <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 : $L=S+150$ ( $100 \leq S < 400$ )<br>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<br>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<br>EN 60601-1:2006+A12:2014<br>ANSI/AAMI ES60601-1:2005/(R)2012 and A1:2012,<br>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

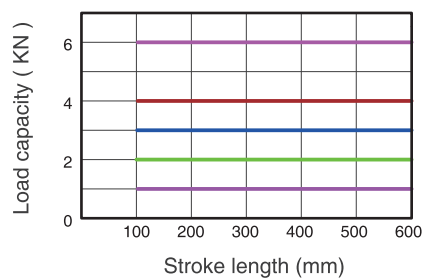


## Technical Data-Standard Value

| 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 Jiechang 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

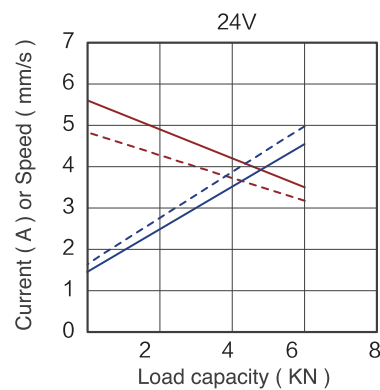
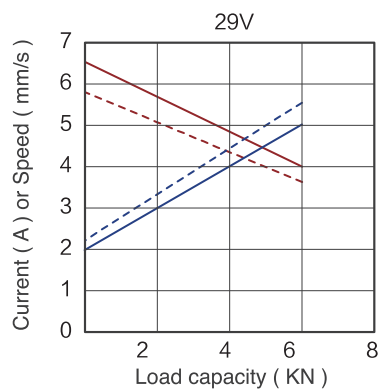




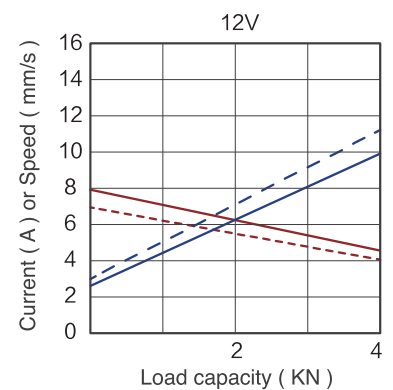
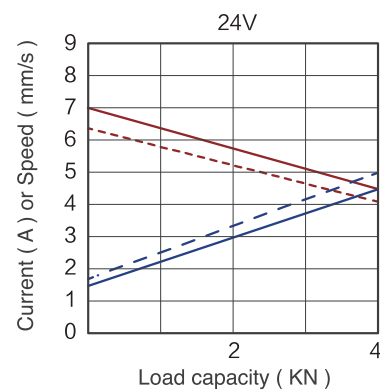
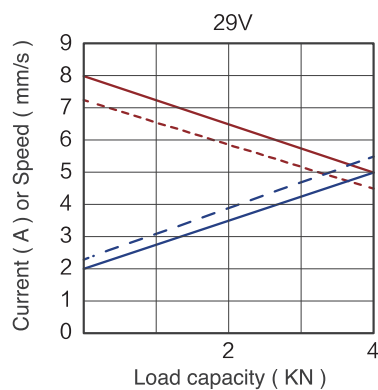
## Characteristic Curve

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

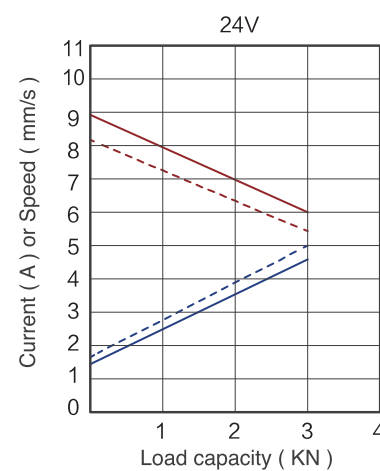
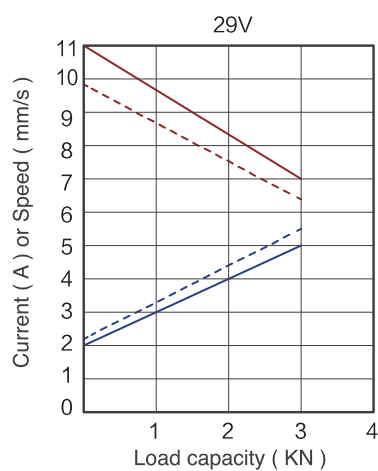
### 6000N



### 4000N



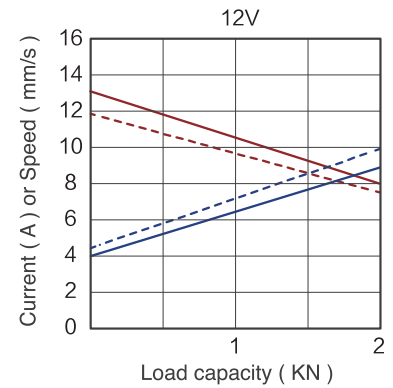
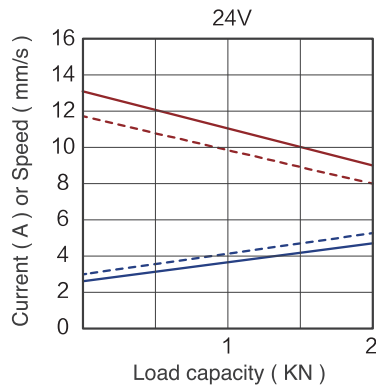
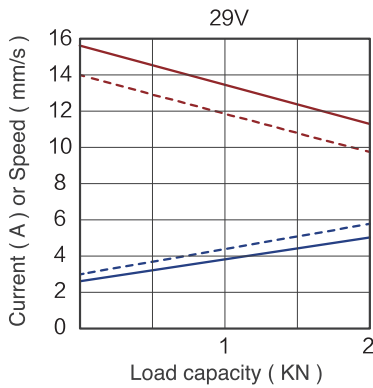
### 3000N



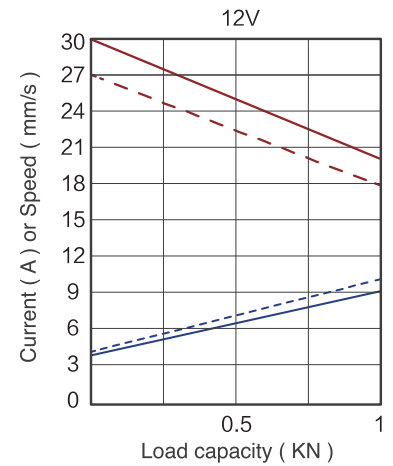
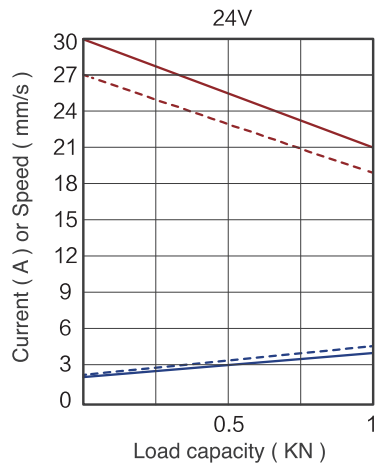
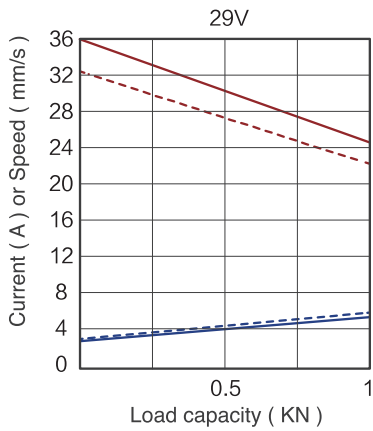
## Characteristic Curve

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

### 2000N



### 1000N



## Ordering Examples

Take **JC35ES2Y044D524200/350A210D510G** for example

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



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