JIECANG

# JC36L81 Linear Actuator



Model JC36L81 is a low-noise and compact linear actuator for smart home applications.

This actuator is suitable for smart leisure chairs, theater chairs, massage chairs, foot spa chairs and other related products, providing more solution options for the smart home sector.

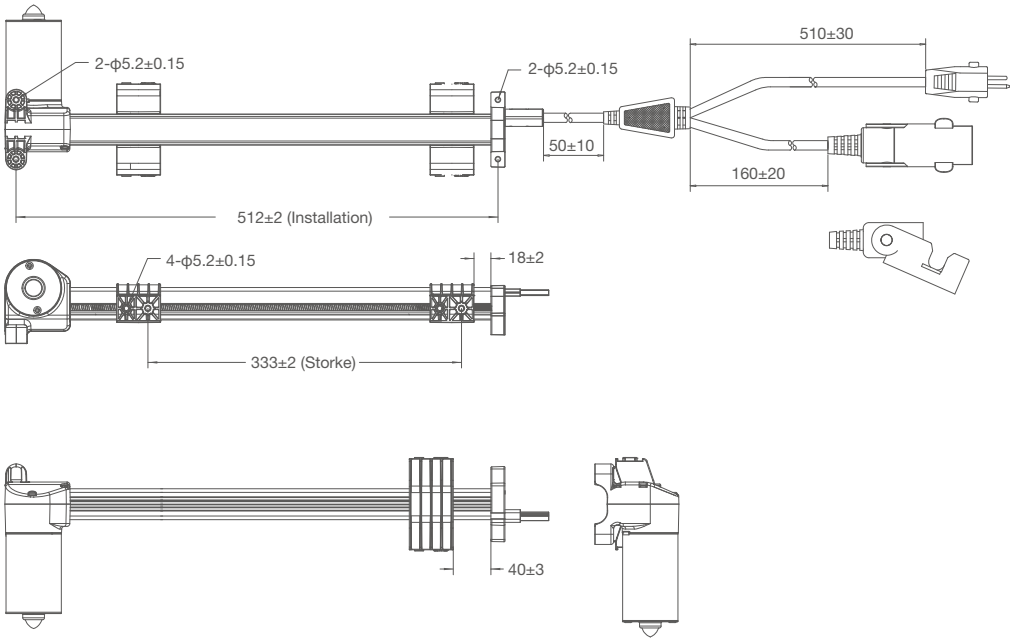
## Features And Options

| | |
|---|---|
| **Rated Thrust (N):** | 500~1500 |
| **Rated Pull Force (N):** | 2500~1500 |
| **Color:** | Black |
| **Protection Class:** | IP20 |
| **Stroke Length (mm):** | 50~540 |
| **Installation Dimension (mm):** | 180~700 |
| **Noise Leve:** | ≤50 dB (Ambient Noise ≤ 40 dB) |
| **Hall sensor:** | Yes |
| **Limit Switch:** | Built-in Electronic |
| **Self-locking Force (N):** | > 500 |
| **Approval:** | UL/CE/FCC/IOS-PRG-0027 |

## 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:** | Optional with standard controllers or adapters of Jiecang |
| **Relative Humidity:** | 20% to 90% at 30°C, non-condensing |
| **Atmospheric Pressure:** | 700 to1060hPa |

# Dimensions

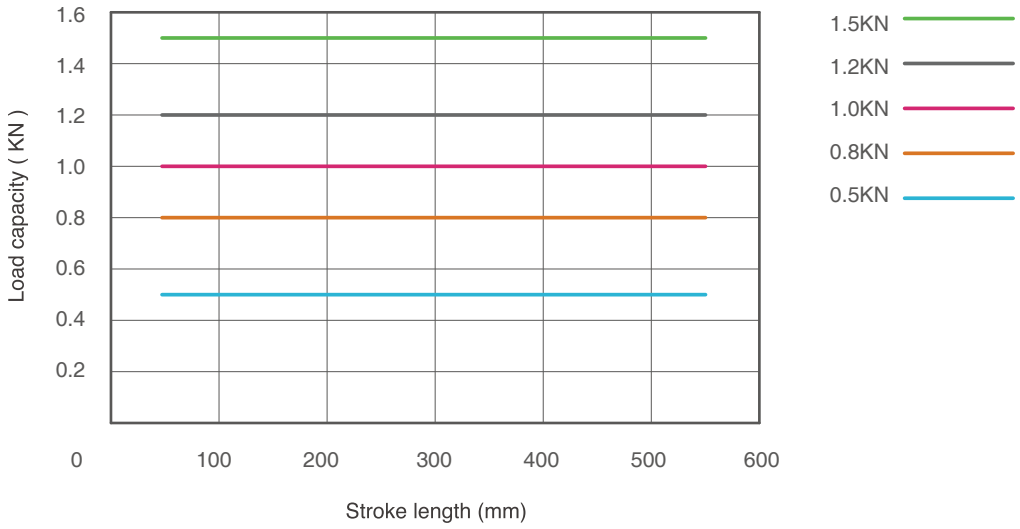



# Technical Specifications (Standard Value)

| 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) |
|---|---|---|---|---|---|---|
| 29 | 8 | 500 | 500 | ≥500 | 35/28 | ≤3.5 |
| | 8 | 800 | 800 | ≥500 | 35/27 | ≤4 |
| | 8 | 1000 | 1000 | ≥500 | 35/26 | ≤4 |
| | 8 | 1200 | 1200 | ≥500 | 35/25 | ≤4.5 |
| | 8 | 1500 | 1500 | ≥500 | 35/23 | ≤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.
1kg=2.2lb, 100mm=3.94inch

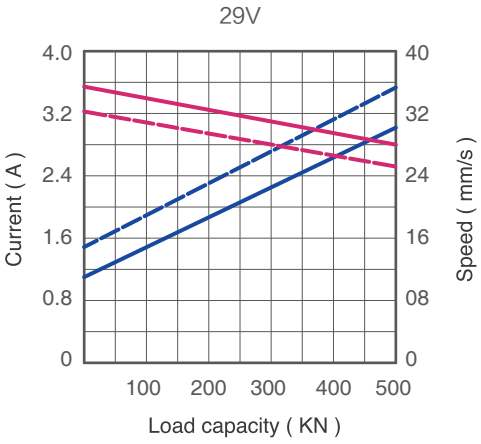
## Diagram of relationship between stroke length and load



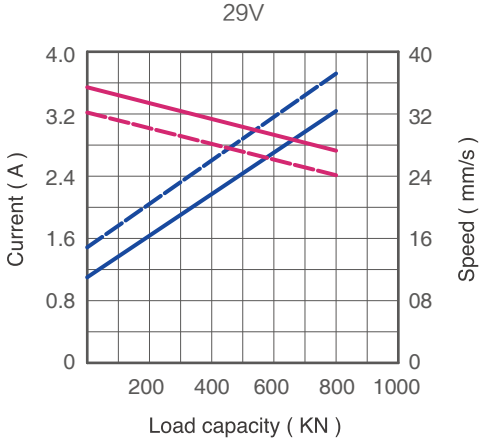

## Characteristic Curve




500N



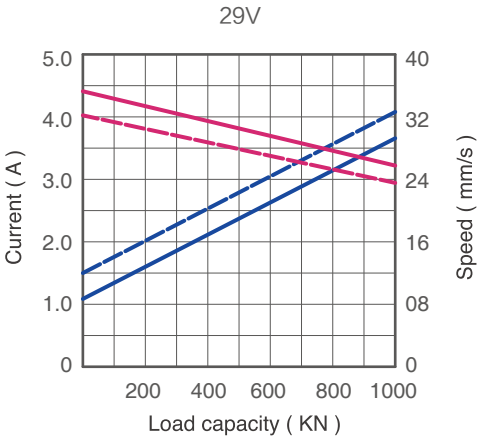

800N



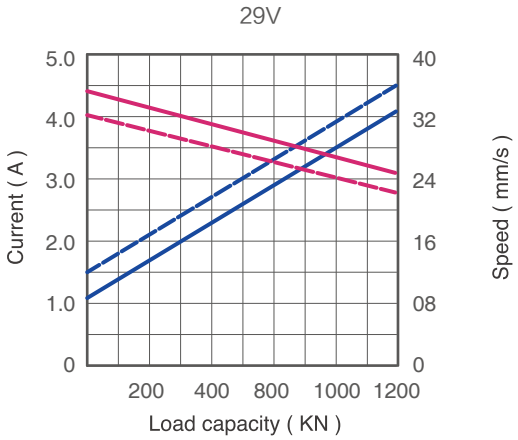
# Characteristic Curve

Typical speed
Min. speed
Typical current
Max. current

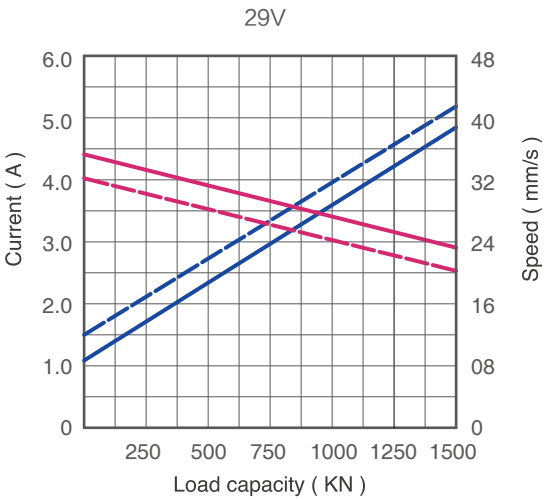
## 1000N




## 1200N




## 1500N



# Ordering Key

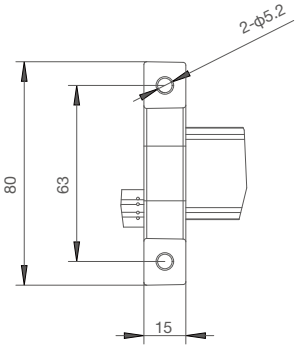
Take **JC35L81Y0D82029333/5120BB77SF11601940D6** as an example

| | | |
|---|---|---|
| Model | **JC35L81** | |
| Optional features | **X** | Y= Hall sensor |
| Load in push | **XXX** | 0D5=500N \| 0D8=800N \| 1=1000N \| 1D2=1200N \| 1D5=1500N |
| Speed at full load | **XXX** | 28=28mm/s \| 27=27mm/s \| 26=26mm/s \| 25=25mm/s \| 23=23mm/s |
| Input voltage | **XX** | 29 = 29VDC |
| Stroke length/ Installation dimension | **XXX/XXX** | Stroke length = 333mm<br>Installation dimension = 512mm |
| Clevis directions | **X** | 0=Without |
| Colour | **X** | B=Black |
| End clevis specification | **XX** | B77=JC36L81 push rod tail pull (integrated with the gearbox), PA6GF35 |
| End clevis material | **X** | S=Plastic tail pull |
| Front clevis specification | **XX** | F116=Slotless, without inner tube, material: PA6GF35 |
| Brake specification | **X** | 0=Without |
| Type of connector and cable | **XX** | 194 = 0.16 meters black 8-core mother-child plug-to-mother plug conversion 0.51 meters with ear column 01 plug A 0.05 meters straight line with row plug L81 card |
| Cable length | **XXX** | 0D6=0.6 0D6=0.6m |

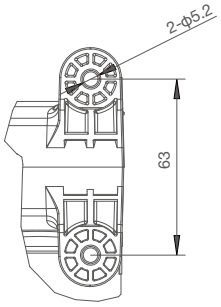
# Ordering Details

## Dimensions of clevis

**End clevis: B77**

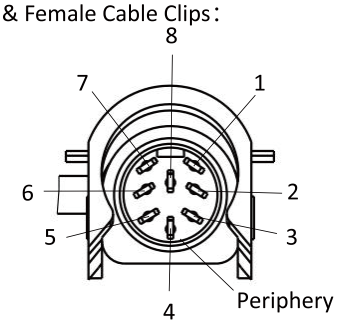



**Front clevis: F116**




# External wiring diagram of the Linear Actuator

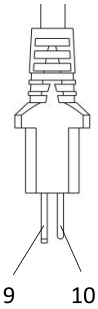
Male & Female Cable Clips:




| Position | Color | Function |
|---|---|---|
| 1 | White | HALL-1 |
| 2 | Red | 29V |
| 3 | Brown | Motor (+) |
| 4 | Blue | Motor (-) |
| 5 | - | Without |
| 6 | - | Without |
| 7 | Orange | HALL-2 |
| 8 | Purple | 5V |
| Periphery | Black | GND |

External Controller / Hand Controller

01 Male Plug Connector:




| Position | Color | Function |
|---|---|---|
| 9 | Black | GND |
| 10 | Red | 29V |

External adapter

### 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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