JIECANG

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(Inverted), requires sealing 4 mounting-hole screw threads.
3. Safety factor: equipped with safety nuts

Features And Options

Input Voltage:	29VDC
Max. Dynamic Load Push(N):	2500N
Stroke Length:	100≤S≤400
Installation Dimension:	L=S/2+150(L≥250)
Current At No Load:	≤2.5A
Current At Full Load:	3C≤5.0A 3C-R≤7.0A
Speed At No Load:	19mm/s ± 10%
Speed At Full Load:	3C: 16mm/s±10% 3C-R: 14mm/s ± 10%
Static Bending Moment:	3C: 500NM 3C-R: 700NM
Dynamic Bending Moment:	3C: 250NM 3C-R: 350NM
Colour:	Aluminium//White/Black
Protection class:	Max. IPX6(Inverted), requires sealing 4 mounting-hole screw threads.
Self-locking force:	Mechanical self-locking 2000N, electronic self-locking 2500N
Weight:	About 10.8kg (Stroke/Installation distance: 400/350mm, weight varies with different stroke/Installation distance)
Noise level:	≤50dB (environmental noise ≤40dB)
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
Relative Humidity:	20% - 90% at 30°C, non-condensing
Atmospheric Pressure:	700-1060 hPa

Technical Specifications (Standard Value)

Type	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)	Installation Dimension	Stroke Length	Electronic self-locking
JC35EA3C	29	2000	250/500	19/16	≤2.5/≤5	L=S/2+150 (L≥250)	100-400	2000
JC35EA3C-R	29	2500	350/700	19/14	≤2.5/≤7	L=S/2+150 (L≥250)	100-400	2000

Remarks: The above data is the standard value of the test data (inspection specification) at room temperature of 25℃.
1kg=2.2lb□100mm=3.94inch

Ordering Key

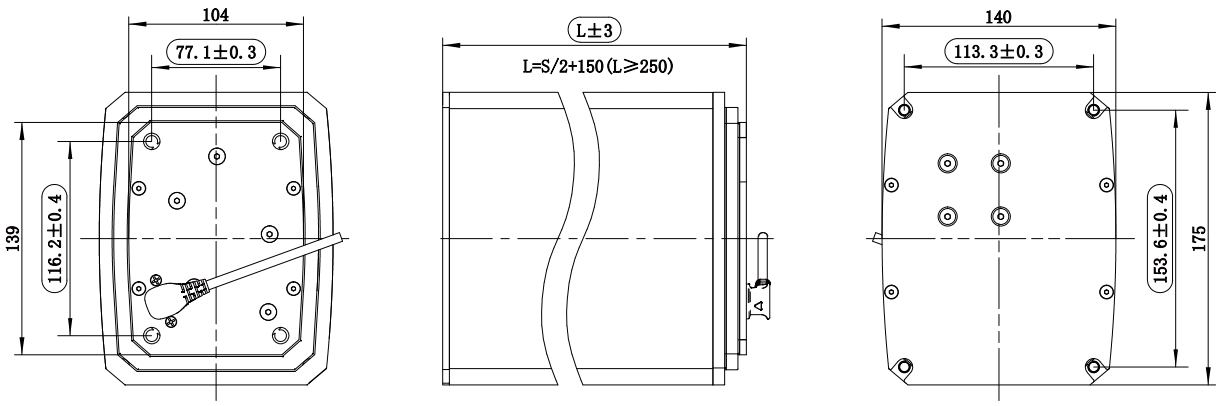
Take **JC35EA3C0E21629400/350011150D011G** as an example

Model	**JC35EA3C/JC35EA3C-R**	
Optional features	**X**	0=Standard / Y=hall sensors G1=1 wire, exits top and bottom at plate G2=1 wire, exits top at plate, bottom at side G3=1 wire, exits top at side, bottom at plate G4=1 wire, exits top and bottom at side G5=2 wires, both exit top and bottom at side
Profile code	**X**	E=1#2#3#
Load in push	**X**	2=2000N 2D5=2500N
Speed at full load	**XX**	16=16mm/s 14=14mm/s
Input voltage	**XX**	29V
Stroke length/Installation dimensions	**XXX/XXX**	Stroke length=400mm Installation dimension=350mm
Mounting plate code	**X**	0=Standard
Cable outlet	**X**	0=Top side cable outlet 1=Top mounting plate cable outlet 2=Bottom side cable outlet 3=Bottom mounting plate cable outlet
Type of connector and cable	**XX**	02=4 Pin Din connector 10=5 Pin Din connector 21=6 Pin ET Straight Connector 93=6 Pin Mini-fit elbow connector 115=6 Pin EA waterproof female plug
Cable length	**XXX**	0D0 = None / 1D0 = 1 m
Surface treatment	**XX**	10: Plastic spraying treatment 11: Brushed oxidation (brushed and polished surface)
Colour	**X**	H: White RAL9016 G: Silver grey RAL9006

Column Dimensions & Specifications

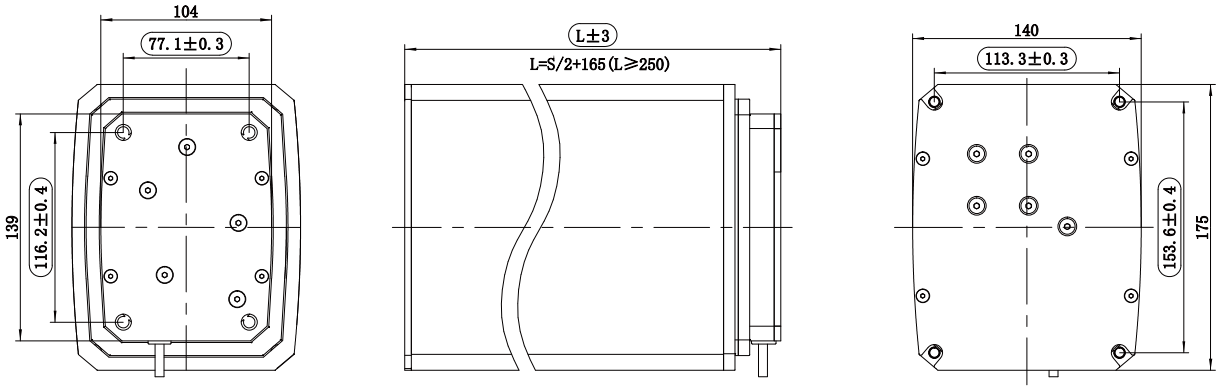
No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
1 (Standard)	1=Top mounting plate cable outlet	0=Standard Y=hall sensors	JC35EA3C JC35EA3C-R	L=S/2+150

Dimensions



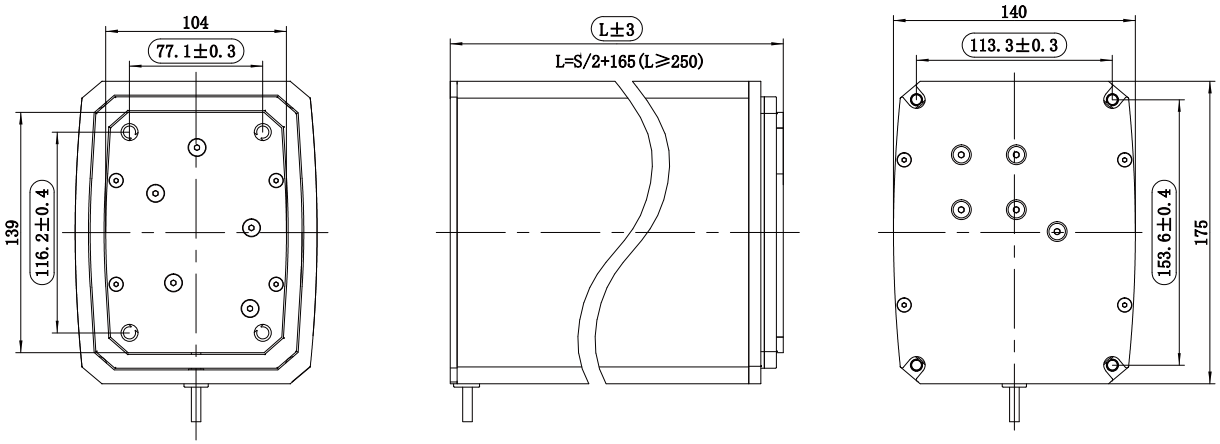
No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
2	0=Top side cable outlet	0=Standard Y=hall sensors	JC35EA3C-R	L=S/2+165

Dimensions



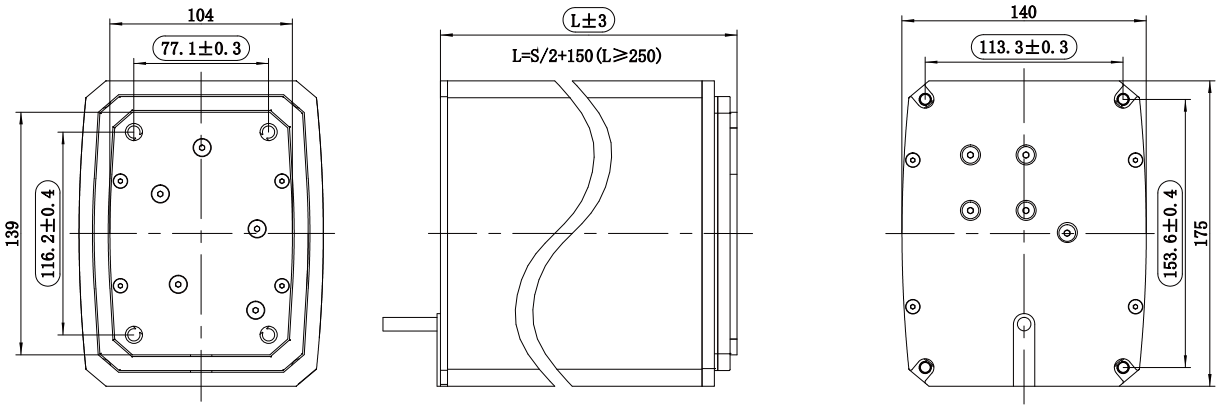
No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
3	2=Bottom side cable outlet	0=Standard Y=hall sensors	JC35EA3C-R	L=S/2+165

Dimensions



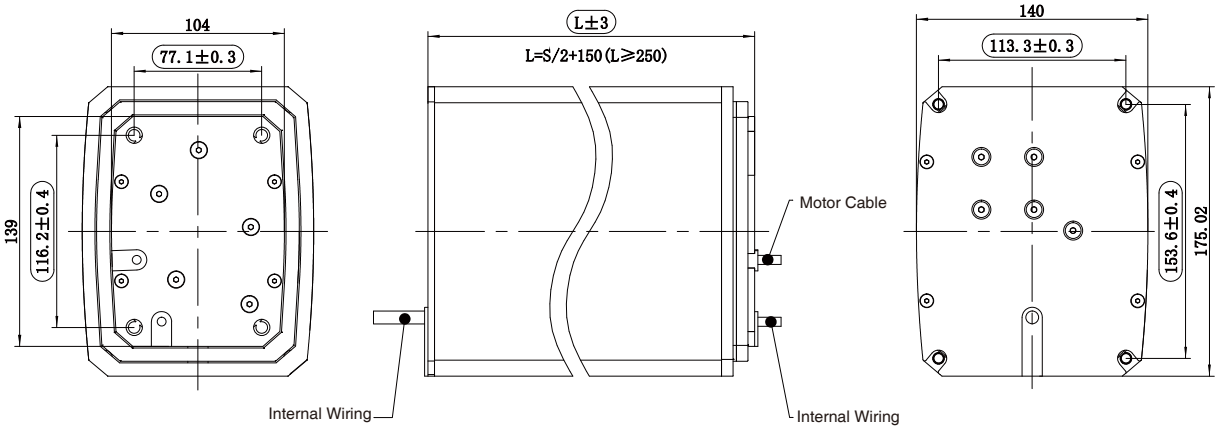
No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
4	3=Bottom side cable outlet	0=Standard Y=hall sensors	JC35EA3C-R	L=S/2+150

Dimensions



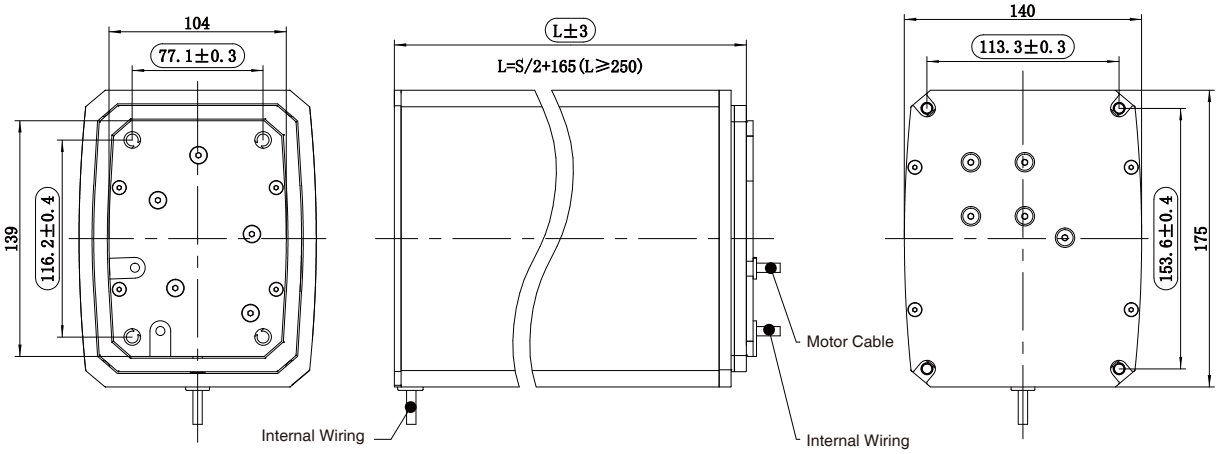
No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
5	1=Top mounting plate cable outlet	G1: 1 wire inside, exits top & bottom through mounting plate. YG1: Dual Hall feedback + 1 wire inside, exits top & bottom through mounting plate.	JC35EA3C-R	L=S/2+150

Dimensions



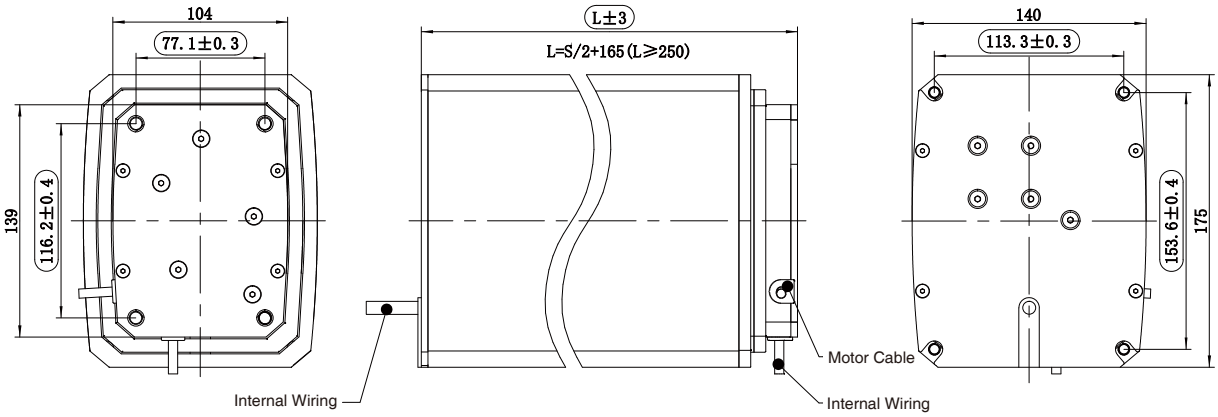
No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
6	1=Top mounting plate cable outlet	G2: 1 wire inside, exits top through mounting plate, bottom through side. YG2: Dual Hall feedback + 1 wire inside, exits top through mounting plate, bottom through side.	JC35EA3C-R	L=S/2+165

Dimensions



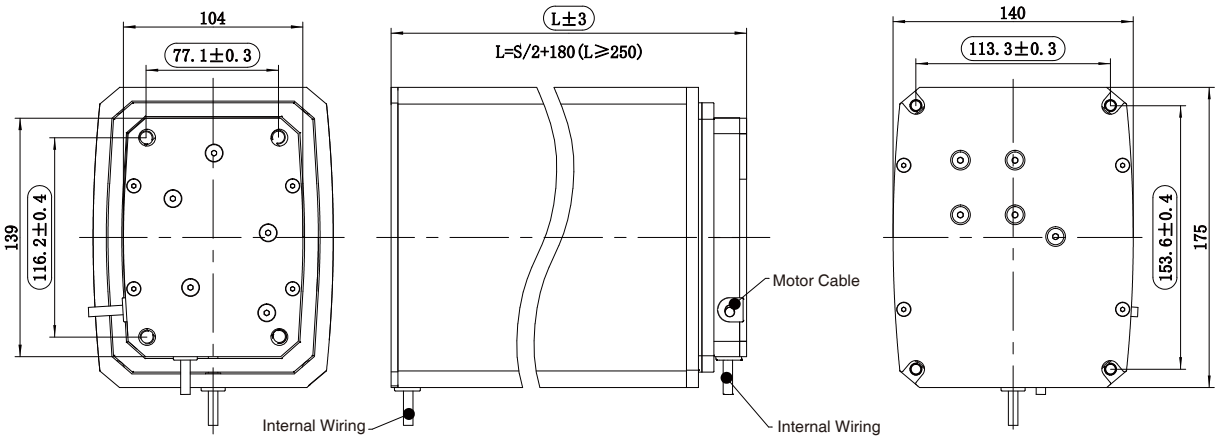
No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
7	0=Top side cable outlet	G3: 1 wire inside, exits top through side, bottom through mounting plate. YG3: Dual Hall feedback + 1 wire inside, exits top through side, bottom through mounting plate.	JC35EA3C-R	L=S/2+165

Dimensions



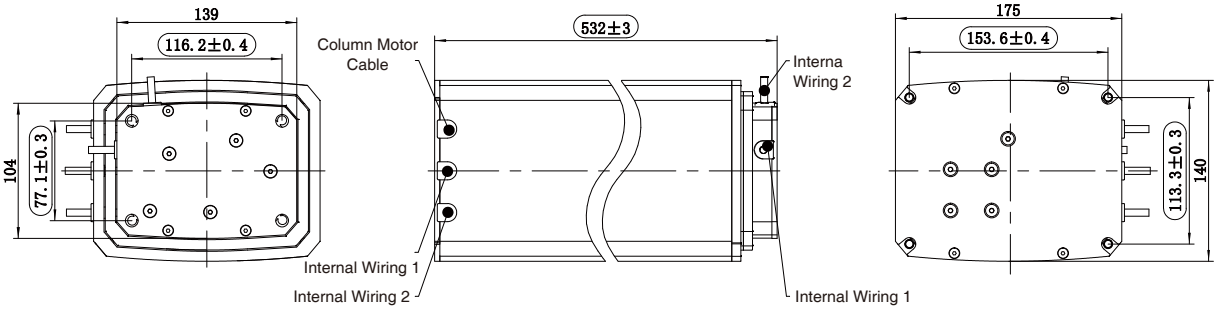
No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
8	0=Top side cable outlet	G4: 1 wire inside, exits top & bottom through side. YG4: Dual Hall feedback + 1 wire inside, exits top & bottom through side.	JC35EA3C-R	L=S/2+180

Dimensions



No.	Connection position	Optional features	Applicable Models	Stroke length/Installation dimensions
9	2=Bottom side cable outlet	G5: 2 wires inside, both exit top & bottom through side. YG5: Dual Hall feedback + 2 wires inside, both exit top & bottom through side.	JC35EA3C-R	S=400 L=532

Dimensions



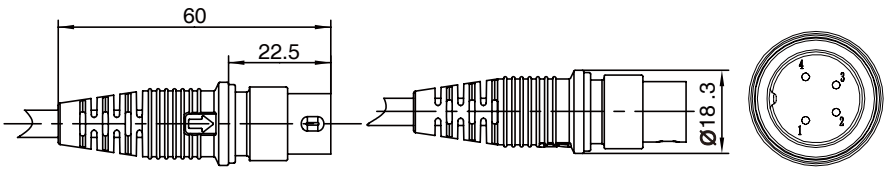
Motor cable

4 Pin Din connector (standard)

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



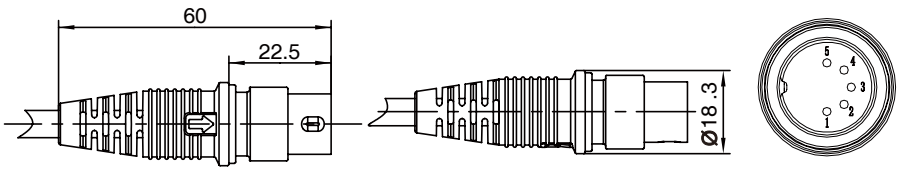


5 Pin DIN connector (with Hall sensor)

Supporting control boxes:
JCB35Q / JCB35T / JCB353R / 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



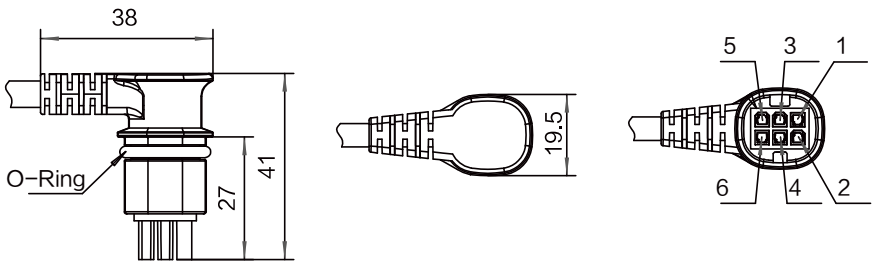
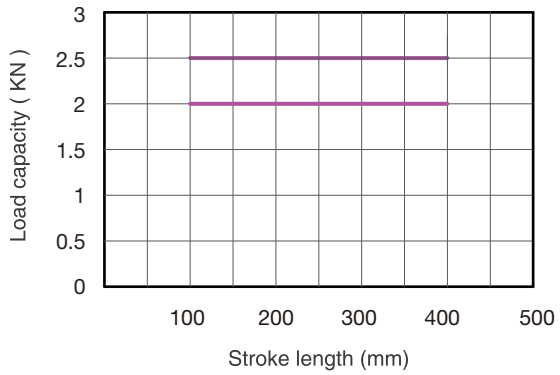


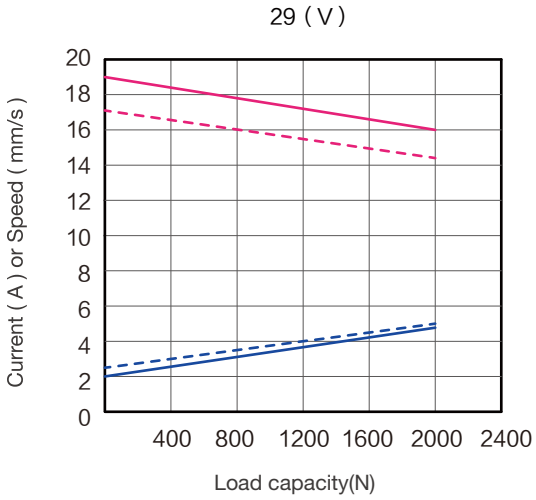
Diagram of relationship between stroke length and load



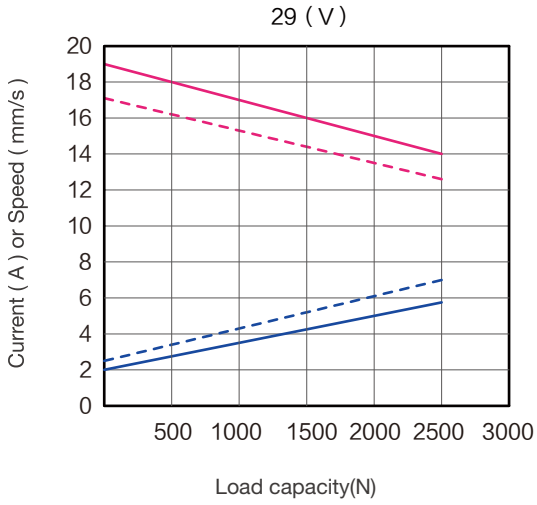
Characteristic Curve

Typical speed
Min. speed
Typical current
Max. current

2000N



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

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