JC35L3 Linear Actuator

Application field -Medical Line
Preferably in hospital beds;operation table;nursing bed and other applications.

JC35L3 is an actuator with low noise and high load capacity. It has rich specifications: JC35L3-6000N(push); JC35L3-4000N (push); JC35L3-3000N(push); JC35L3-4000N (pull); JC35L3-3000N (pull).
JC35L3 is available for both push and pull applications.
JC35L3 is rated up to max. IPX6.



Features And Options

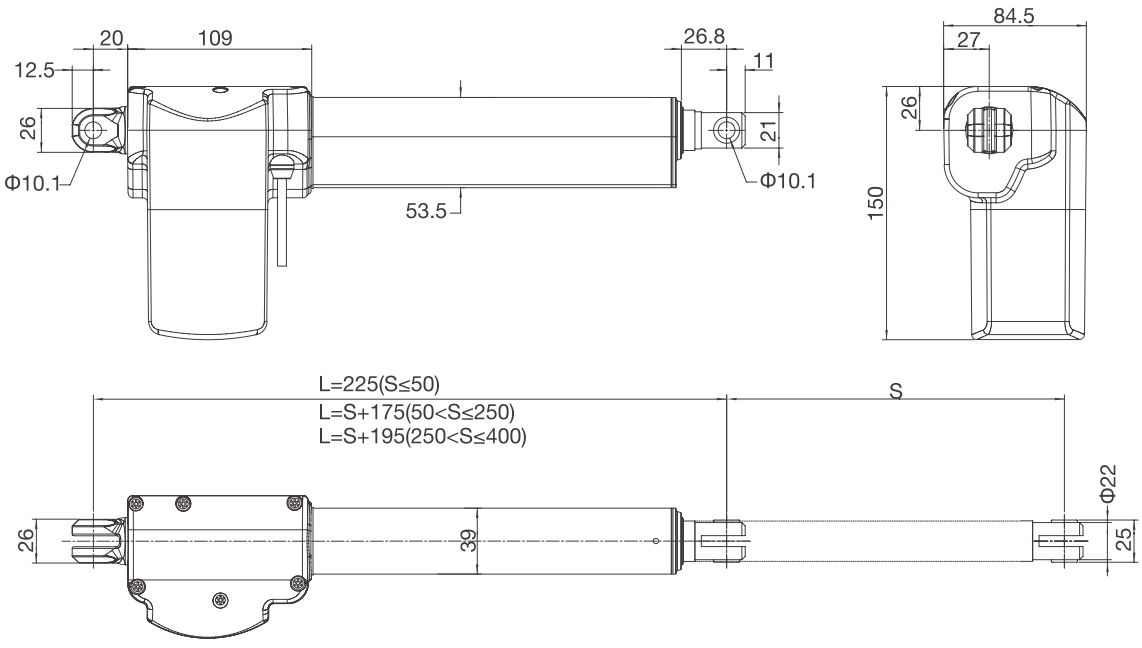
Dynamic Load Push(N):	6000 | 4000 | 3000
Dynamic Load Push(N):	6000 | 4000
Colour:	Gray / Black
Protection Class:	Max. IPX6
Stroke Length:	6000N: 50-300mm (4mm tolerance) 4000N: 50-400mm (4mm tolerance) 3000N: 50-400mm (4mm tolerance)
Installation Dimension:	L=225 (S≤50) L=S+175 (50<S≤200) L=S+185 (200<S≤400)
Noise Level:	≤48dB (environmental noise≤40dB)
Optional:	Safety nut, Hall sensor, Only push, Signal switch+Mechanical end stop
Limit Switch:	Built-in (electronic)
Weight:	About 2kg(different stroke and installation dimensions with different weight)
Static Bending Moment:	Lateral load is not allowed
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

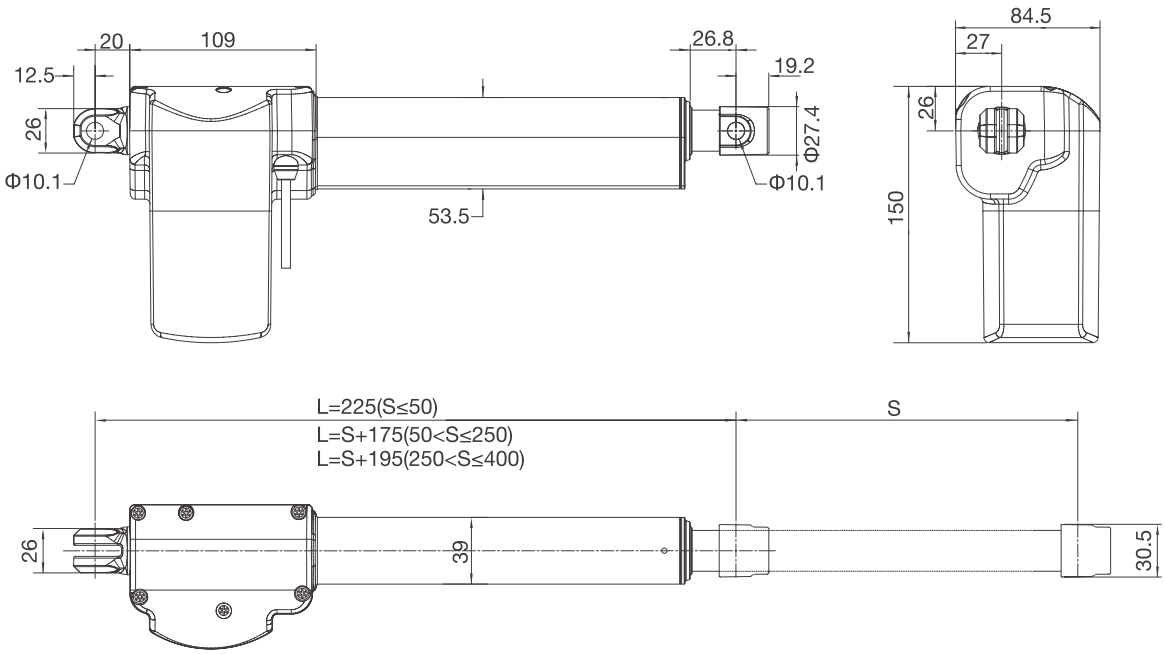
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5 °C to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JECANG control box
Relative Humidity:	20% - 90% at 30°C, non condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

Front clevis F05, end clevis B01



Front clevis F09,end clevis B01

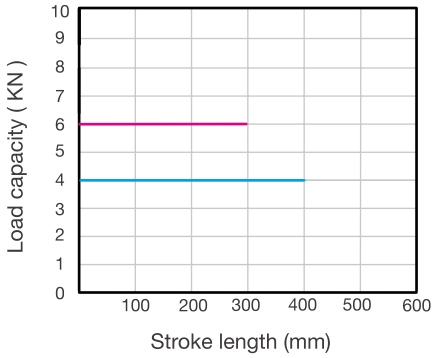


Technical Specifications (Standard Value)

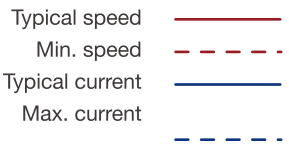
Input voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-locking (N)	Speed at no load/full load (mm/s)	Current at full load (A)
24	4	6000	4000	6000	5.7/4	≤5.5
24	5	4000	4000	4000	6.8/5.1	≤5
24	7.5	3000	3000	3000	11/8	≤5
29	4	6000	4000	6000	7.2/5	≤5
29	5	4000	4000	4000	8.8/6.5	≤4.5
29	7.5	3000	3000	3000	13/9.6	≤4.5

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;

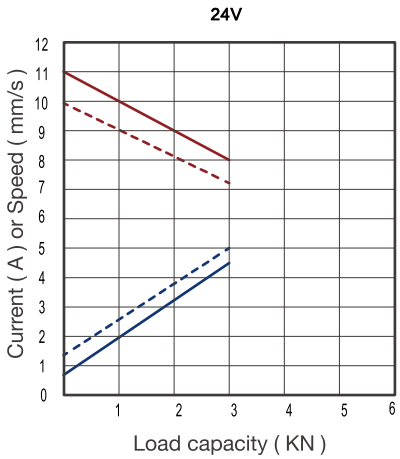
Diagram of relationship between stroke length and load



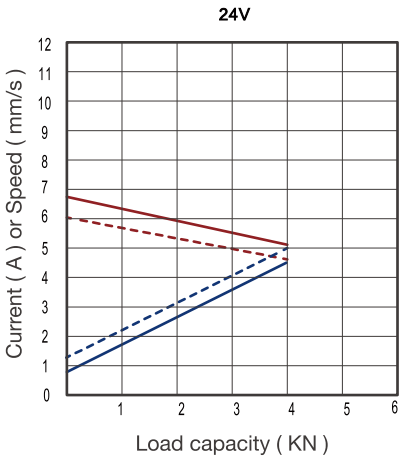
Characteristic Curve



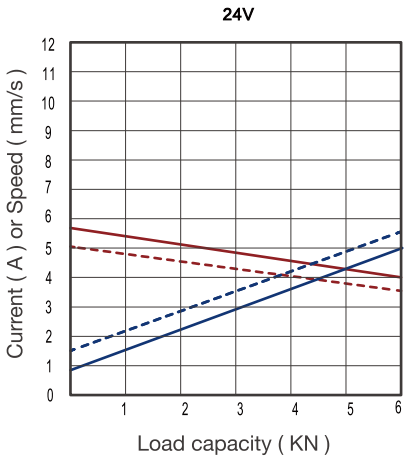
3000N

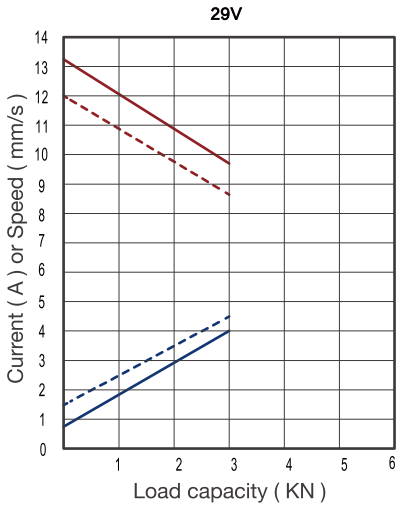


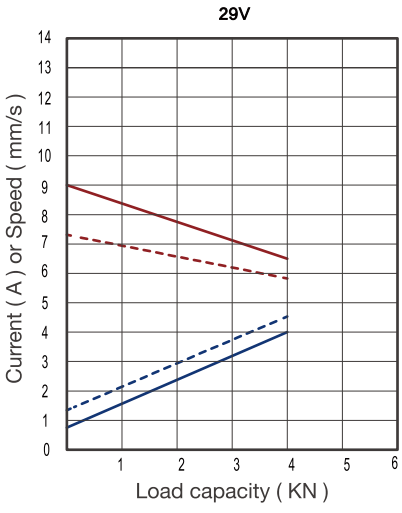
4000N

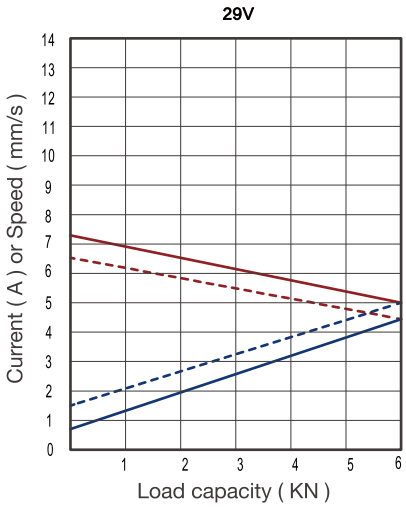


6000N









Ordering Key

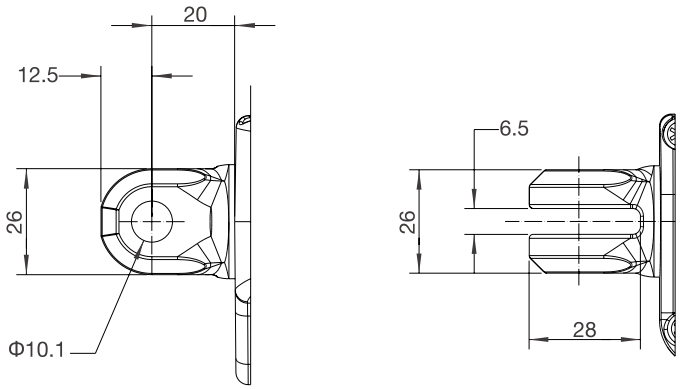
Take **JC35L306424100/275HG01L052022D0** as an example

Model	**JC35L3**	
Optional features	**X**	0=Standard / P=Only push / S=Safety nut / Y=hall sensors PY=Only push+hall sensor / SY=Safety nut+hall sensor B= Signal switch+Mechanical end-stop
Load in push	**X**	6 = 6000N 3 = 3000N 4 = 4000N
Speed at full load	**X**	4=4mm/s 5D1=5.1mm/s
Input voltage	**XX**	24 = 24VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length=XXX Installation dimension=XXX
Clevis directions	**X**	H=horizontal V=vertical (to motor direction)
Colour	**X**	G=Gray / B=Black
End clevis specification	**XX**	B01= slot 6.5,the depth 28, hole φ10.1
End clevis material	**X**	L = Aluminum alloy
Front clevis specification	**XX**	F05= slot 6.5, depth 26, hole φ10.1 with plastic bushing. F09= hole φ10.1 with plastic bushing
Brake specification	**X**	0 = Standard 1 = brake in pull 2= brake in push
Type of connector and cable	**XX**	02 = 4 Pin Din connector 10 = 5 Pin Din connector 93 = 6 Pin Mini-Fit elbow connector
Cable length	**XXX**	2D0 = 2m / 0D5 = 0.5m

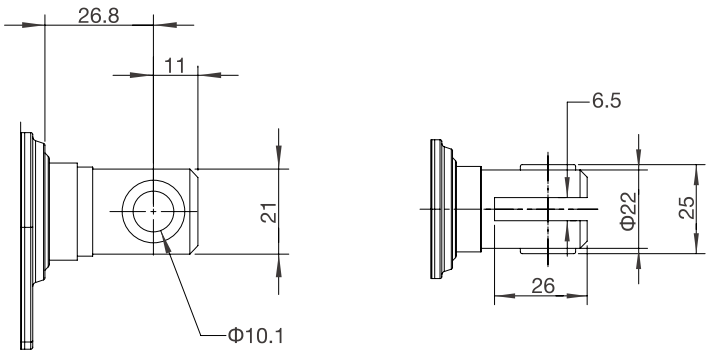
Ordering Details

Dimensions of clevis

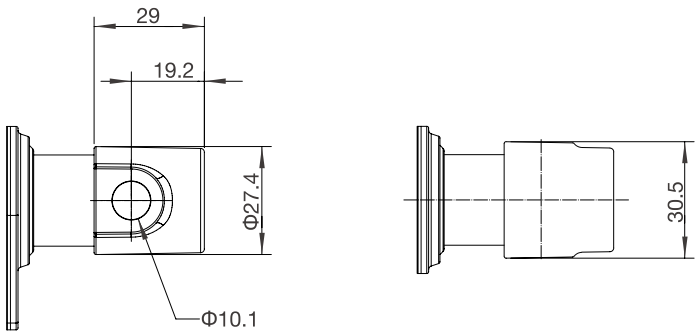
End clevis: B01



Front clevis: F05

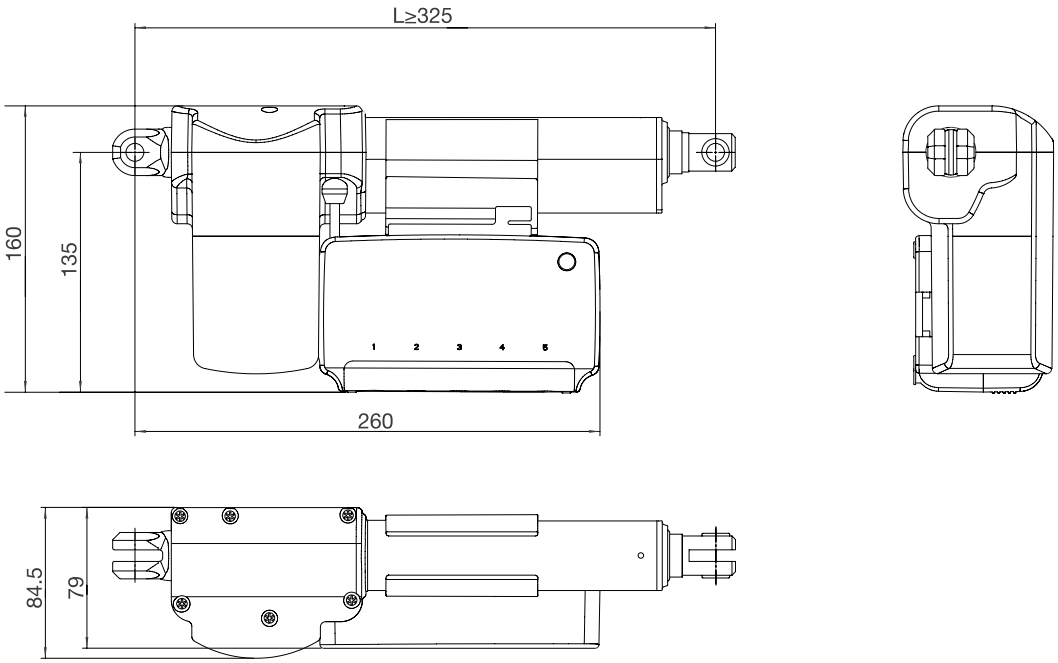


Front clevis: F09

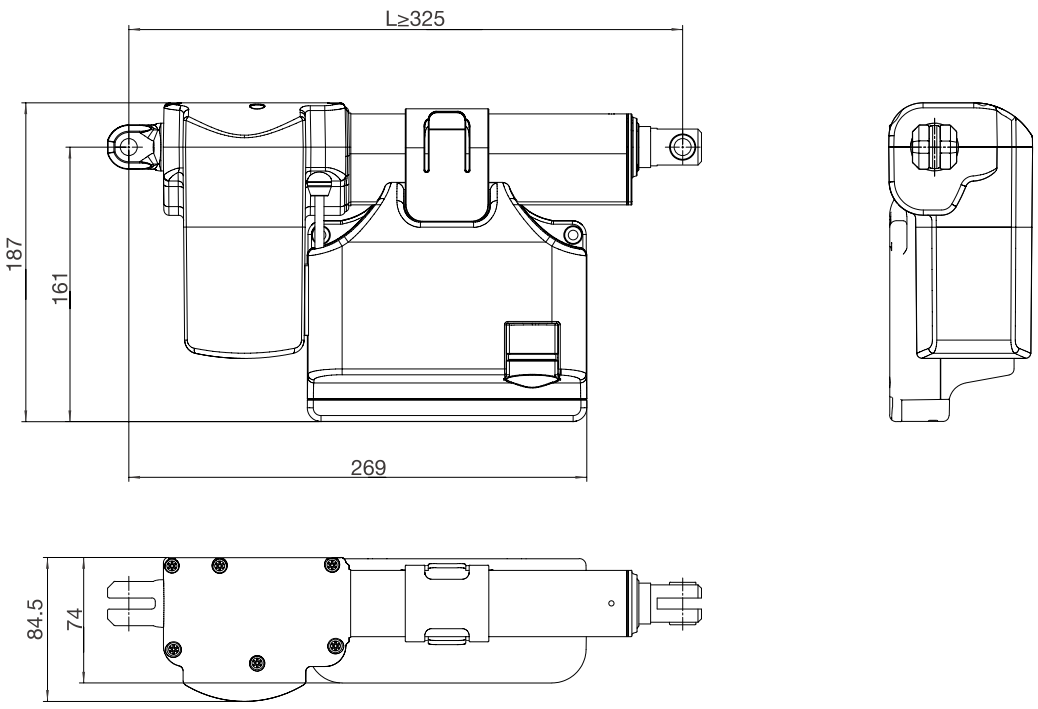


Dimensions of JC35L3 with control box

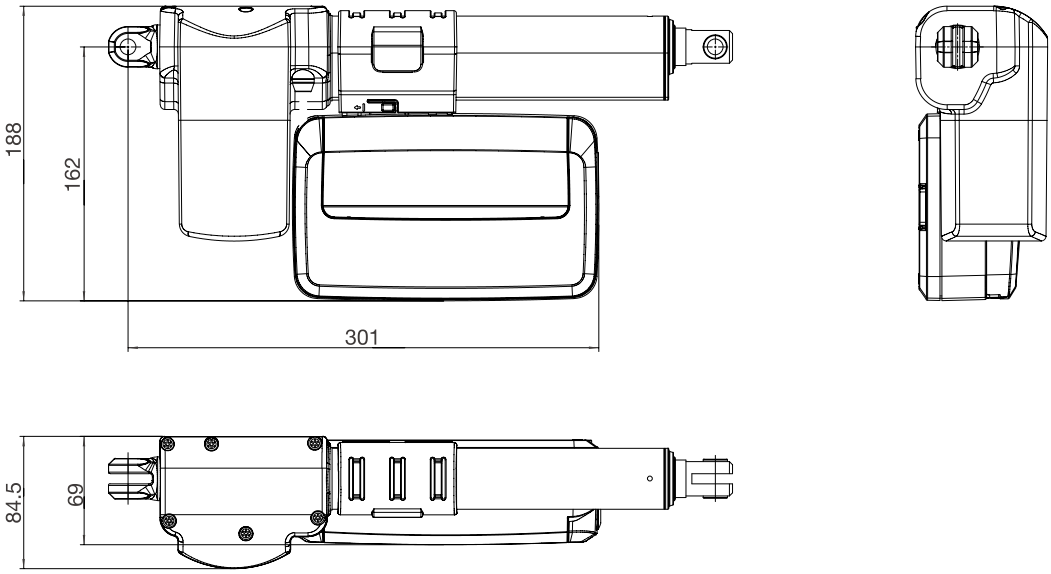
JCB35Q installing with JC35L3



JCB35T installing with JC35L3



JCB35T2 installing with JC35L3



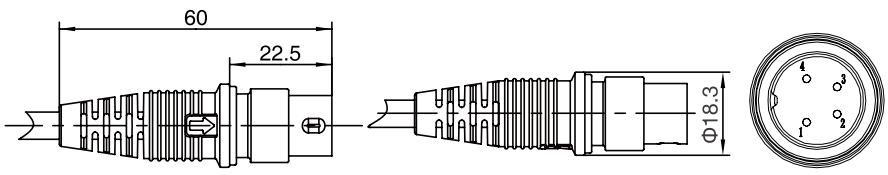
Motor cable

4 Pin Din Connector (standard)

Supporting control box :
JCB35Q / JCB35T / JCB35R / JCB35R1 / JCB35S

Pin	Color	Function
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



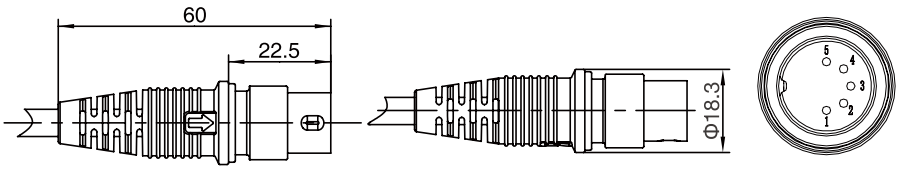


5 Pin Din Connector (with Hall sensor)

Supporting control box :
JCB35Q / JCB35T / JCB35R /
JCB35R1 / JCB35S



Pin	Color	Function
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



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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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