

Specialized in Push rod electric Linear Motion System Manufacturer



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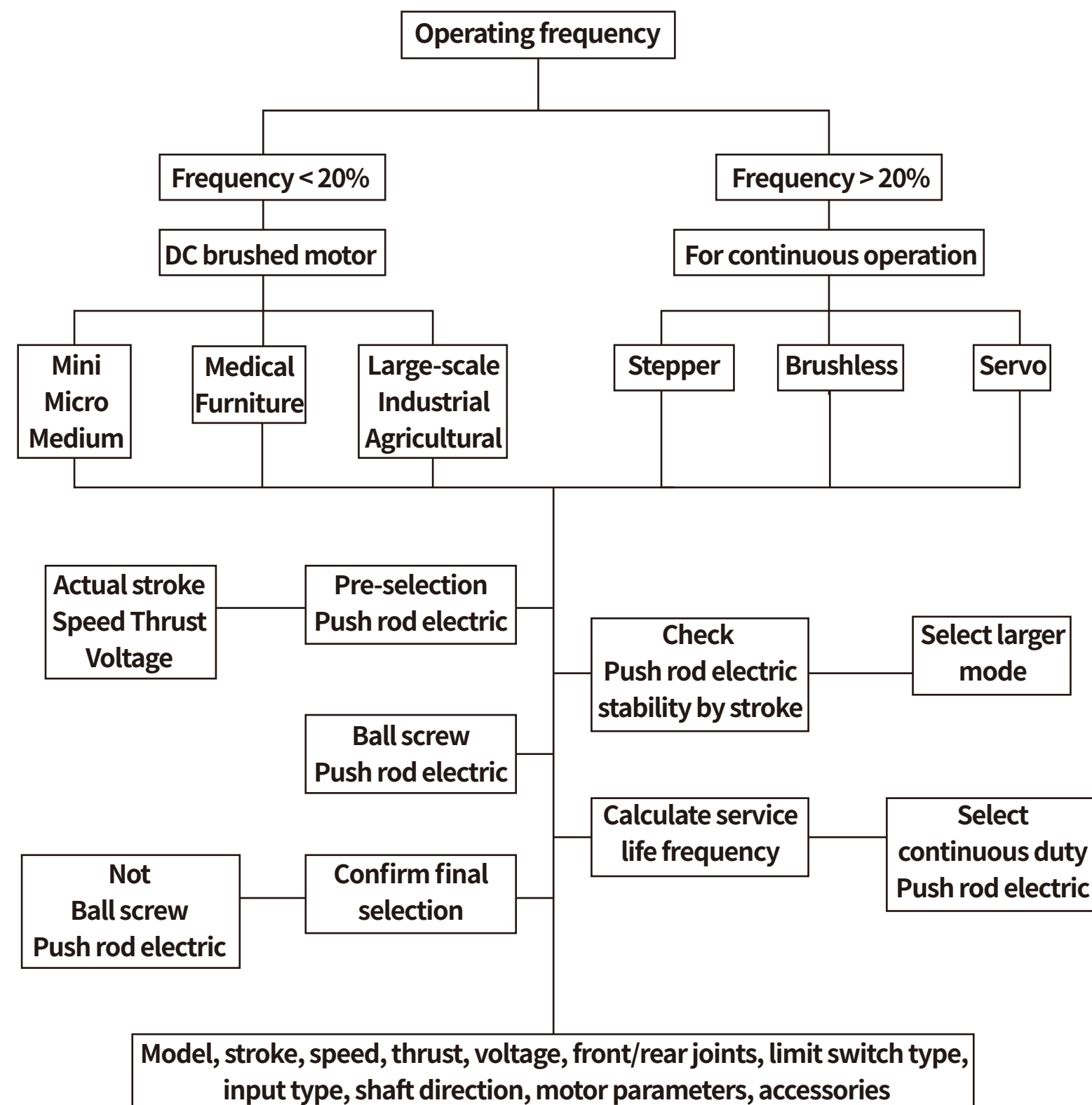
SHANGHAI BASANG ELECTRIC CO.,LTD

COMPANY PROFILE

Shanghai Basang Electric Co., Ltd. always adheres to the vision of "creating an enterprise, cultivating people to make contributions and build a brand."

Shanghai Basang Electric Co., Ltd. mainly focuses on "accessories" as its main business. Its main products include industrial control cabinets, cantilever systems, industrial junction boxes, drag chains, tricolor lights, machine tool protection, and other products and has received widespread praise from domestic and foreign customers. Our products are widely used in the fields of machine tool manufacturing automation equipment, engineering machinery general machinery manufacturing, automotive production lines, wind energy equipment, photovoltaic equipment, new energy equipment, etc. The company is creating higher quality products and pursuing a complete and scientific management and service attitude to meet the needs of various customers.

SELECTION PROCESS



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ZJWSN - MN1

Overview

Aluminum alloy material, compact structure, lightweight. DC motor with gear reduction, built-in micro switch for automatic stop after stroke completion. Customizable stroke, easy installation & operation. Replaces traditional hydraulic/pneumatic linear actuators, eco-friendly. Widely used in seat back adjustment (aircraft, ships, luxury cars), massage chairs/beds, fire-fighting equipment, medical devices, furniture, etc.

Mechanical Characteristics

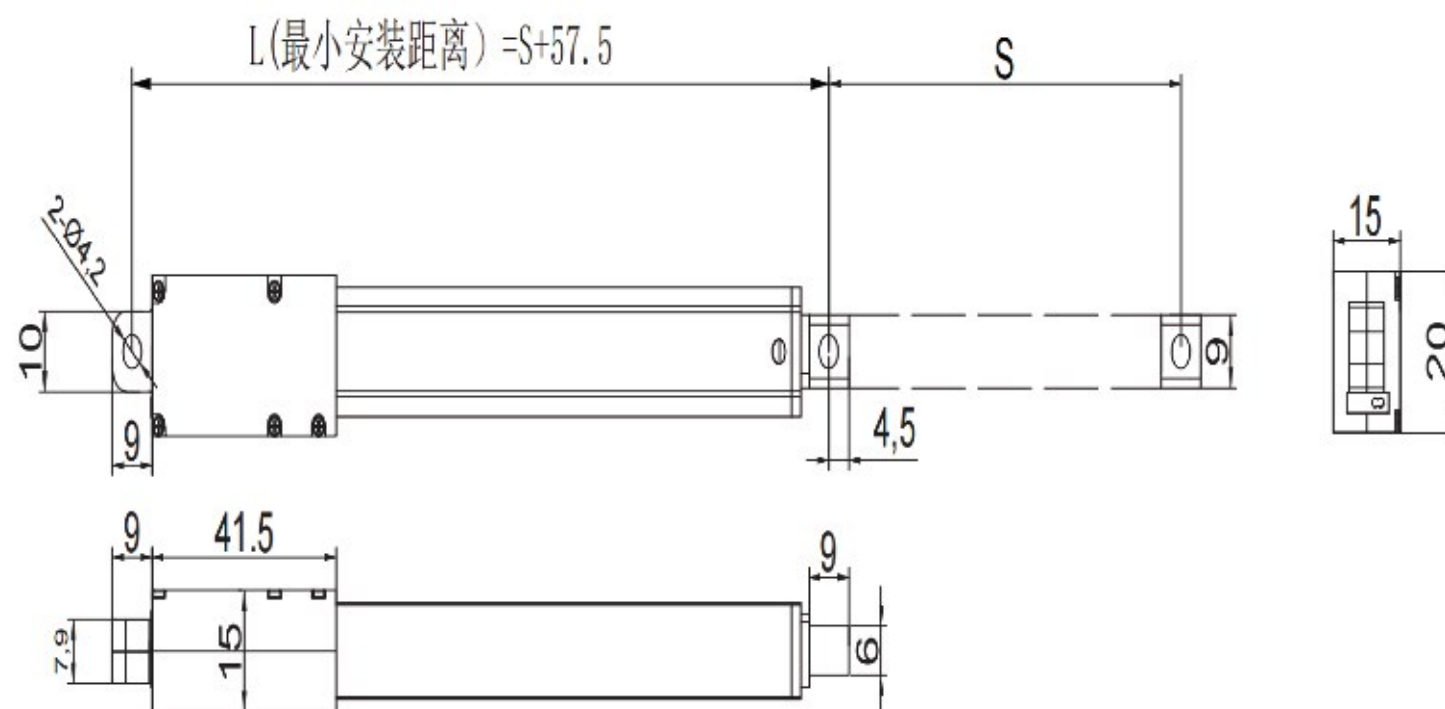
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Protection Class: IP54~65
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Powder Metallurgy Gears
- Low Cost

Force Data

- Max Thrust: 150N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 150N
- Max Service Life: 10,000 operations



Product Drawings



ZJWSN - MN1

Installation Dimensions

Stroke	Retracted Length	Extended Length
10mm	67.5mm	77.5mm
15mm	72.5mm	87.5mm
20mm	77.5mm	97.5mm
30mm	87.5mm	117.5mm
40mm	97.5mm	137.5mm

Stroke	Retracted Length	Extended Length
50mm	107.5mm	157.5mm
75mm	132.5mm	207.5mm
100mm	157.5mm	257.5mm
150mm	207.5mm	357.5mm
200mm	257.5mm	457.5mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
30mm/s	20N	20N	20N
15mm/s	50N	50N	50N
8mm/s	80N	80N	80N
4mm/s	150N	150N	150N

ZJWSN-MN2

Overview

Aluminum alloy material, compact structure, lightweight. DC motor with gear reduction, built-in micro switch for automatic stop after stroke completion. Customizable stroke, easy installation & operation. Replaces traditional hydraulic/pneumatic linear actuators, eco-friendly. Widely used in seat back adjustment (aircraft, ships, luxury cars), massage chairs/beds, fire-fighting equipment, medical devices, furniture, etc.

Mechanical Characteristics

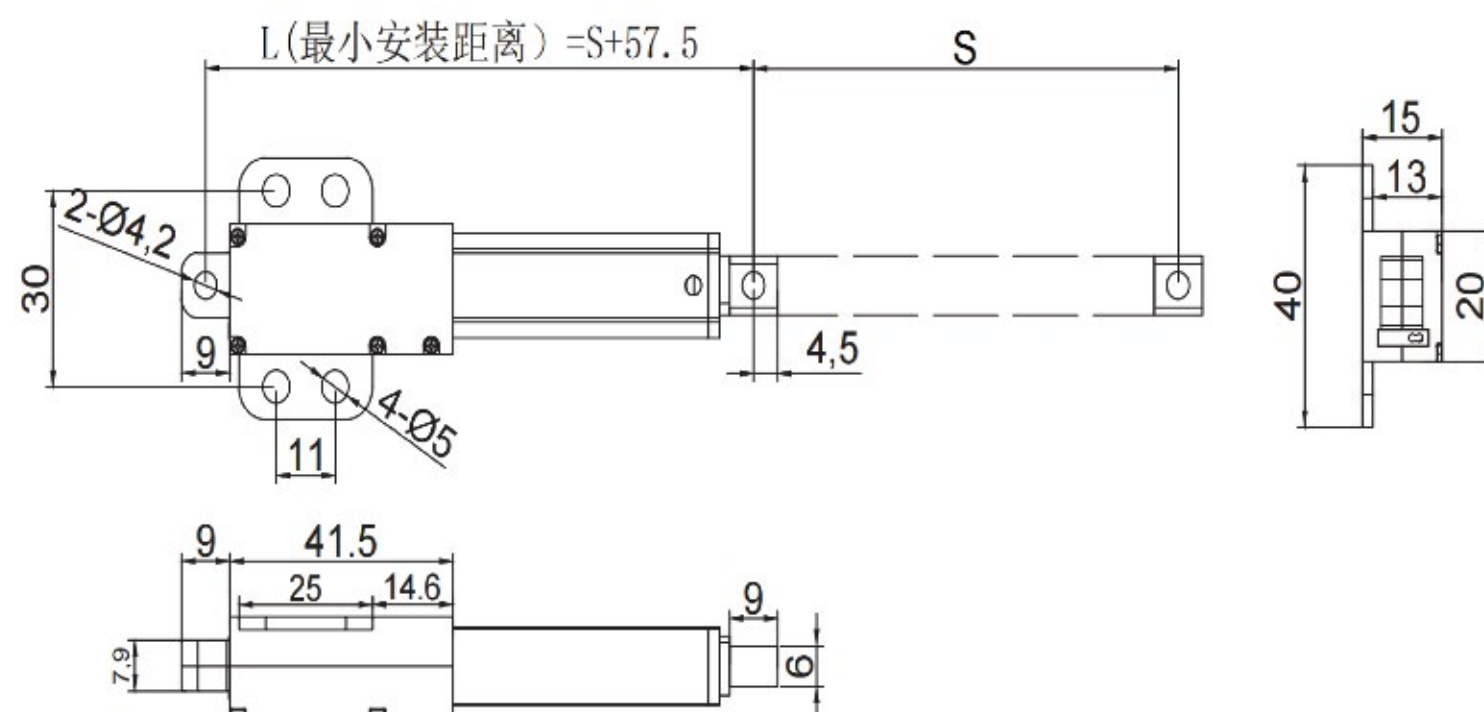
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Protection Class: IP54~65
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Powder Metallurgy Gears
- Low Cost

Force Data

- Max Thrust: 150N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 150N
- Max Service Life: 10,000 operations



Product Drawings



ZJWSN-MN2

Installation Dimensions

Stroke	Retracted Length	Extended Length
10mm	67.5mm	77.5mm
15mm	72.5mm	87.5mm
20mm	77.5mm	97.5mm
30mm	87.5mm	117.5mm
40mm	97.5mm	137.5mm

Stroke	Retracted Length	Extended Length
50mm	107.5mm	157.5mm
75mm	132.5mm	207.5mm
100mm	157.5mm	257.5mm
150mm	207.5mm	357.5mm
200mm	257.5mm	457.5mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
30mm/s	20N	20N	20N
15mm/s	50N	50N	50N
8mm/s	80N	80N	80N
4mm/s	150N	150N	150N

ZJWSN - YF

Overview

Aluminum alloy construction, compact structure, lightweight. Adopts DC motor gear reduction with built-in micro switch for auto-stop after stroke completion. Customizable stroke, easy installation & operation. Replaces hydraulic/pneumatic traditional mechanical push-pull products, eco-friendly. Widely used in aircraft, ships, luxury car seat back lifting, massage chairs, massage beds, fire-fighting equipment, medical devices, furniture, etc.

Mechanical Characteristics

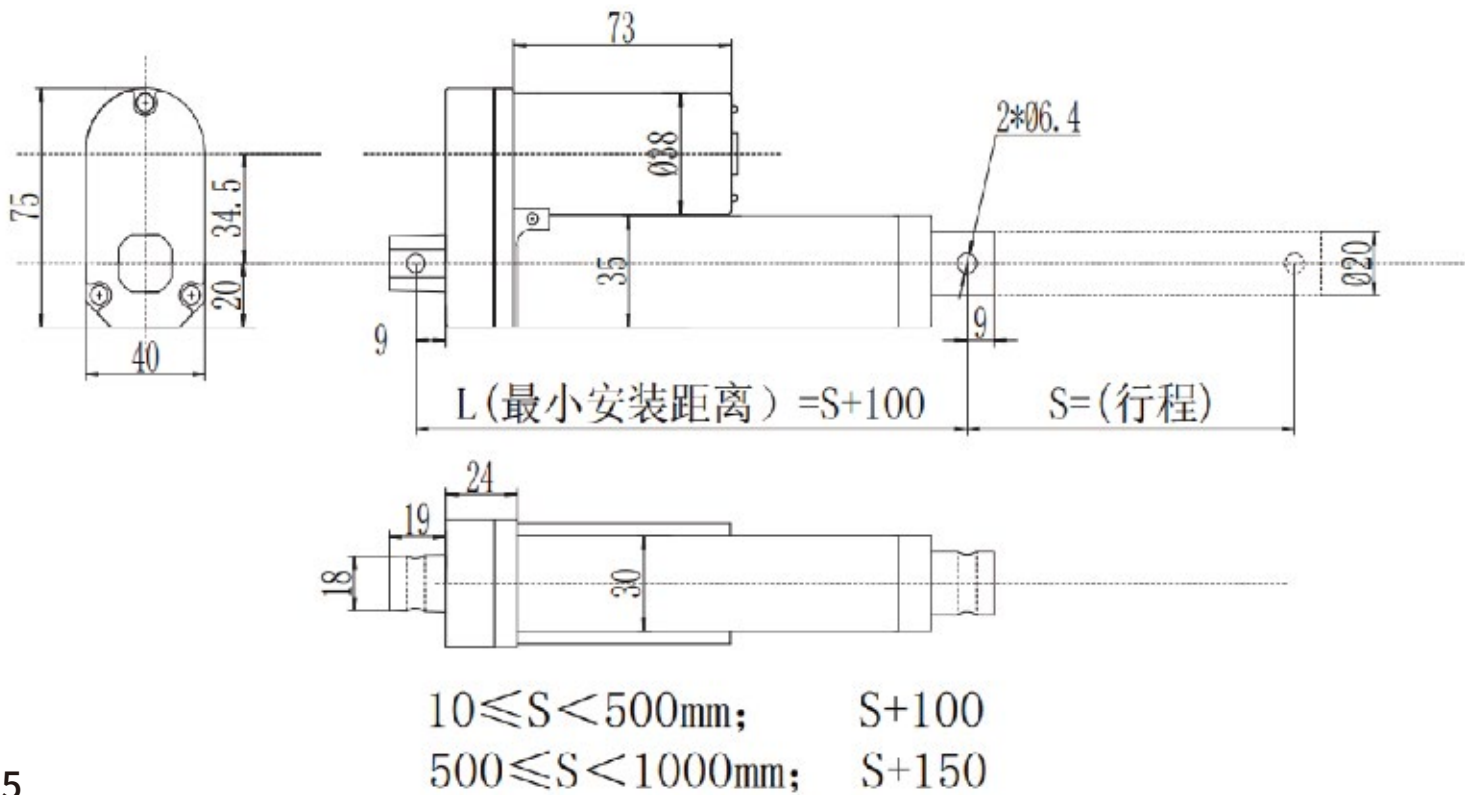
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Protection Class: IP54~65
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Powder Metallurgy Gears
 - Hall sensor compatible
 - Magnetic switch compatible
- Low Cost

Force Data

- Max Thrust: 1500N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 1500N
- Max Service Life: 50,000 operations



Product Drawings



ZJWSN - YF

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	120mm	140mm
30mm	130mm	160mm
50mm	150mm	200mm
100mm	200mm	300mm
150mm	250mm	400mm
200mm	300mm	500mm
250mm	350mm	600mm
300mm	400mm	700mm
350mm	450mm	800mm
400mm	500mm	900mm
450mm	550mm	1000mm

Stroke	Retracted Length	Extended Length
500mm	650mm	1150mm
550mm	700mm	1250mm
600mm	750mm	1350mm
650mm	800mm	1450mm
700mm	850mm	1550mm
750mm	900mm	1650mm
800mm	950mm	1750mm
850mm	1000mm	1850mm
900mm	1050mm	1950mm
950mm	1100mm	2050mm
1000mm	1150mm	2150mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
90mm/s	100N	100N	50N
65mm/s	150N	150N	75N
45mm/s	200N	200N	100N
30mm/s	300N	300N	150N
20mm/s	500N	500N	250N
15mm/s	700N	700N	350N
10mm/s	900N	900N	450N
5mm/s	1000N	1000N	500N

ZJWSN-YF-1

Overview

Aluminum alloy construction, compact structure, lightweight. Adopts DC motor gear reduction with built-in micro switch for auto-stop after stroke completion. Customizable stroke, easy installation & operation. Replaces hydraulic/pneumatic traditional mechanical push-pull products, eco-friendly. Widely used in aircraft, ships, luxury car seat back lifting, massage chairs, massage beds, fire-fighting equipment, medical devices, furniture, etc.

Mechanical Characteristics

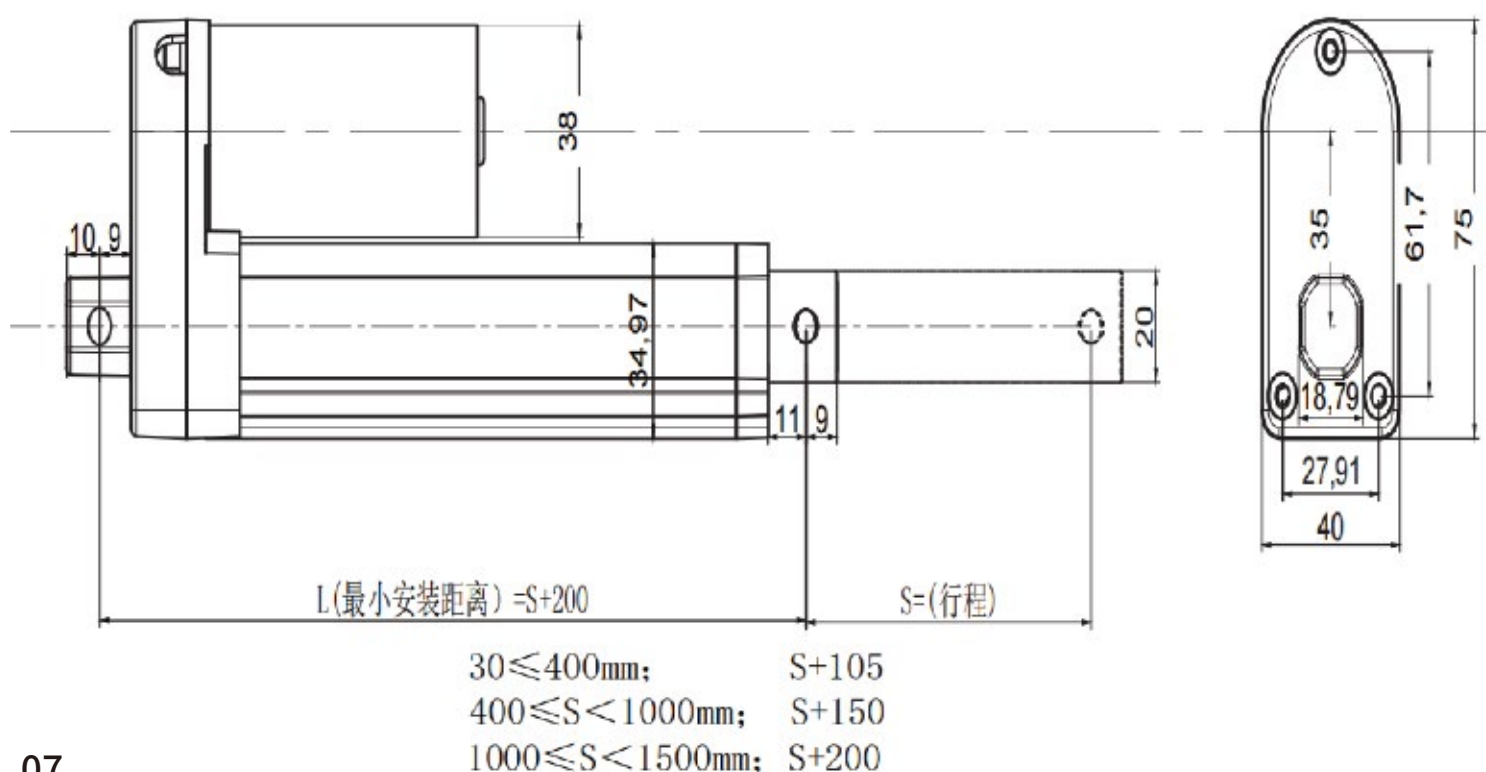
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Protection Class: IP54~65
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Powder Metallurgy Gears
- Hall sensor compatible
- Low Cost
- Magnetic switch compatible

Force Data

- Max Thrust: 1500N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 1500N
- Max Service Life: 50,000 operations



Product Drawings



ZJWSN-YF-1

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	150mm	170mm
30mm	160mm	190mm
50mm	180mm	230mm
70mm	200mm	270mm
100mm	230mm	330mm
150mm	280mm	430mm
200mm	330mm	530mm
250mm	380mm	630mm
300mm	430mm	730mm

Stroke	Retracted Length	Extended Length
350mm	480mm	830mm
400mm	580mm	980mm
450mm	630mm	1080mm
500mm	680mm	1180mm
550mm	730mm	1280mm
600mm	780mm	1380mm
650mm	830mm	1480mm
700mm	880mm	1580mm
800mm	980mm	1780mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
15mm/s	1500N	1500N	1500N
13mm/s	2000N	2000N	2000N
10mm/s	2500N	2500N	2500N
6mm/s	3500N	3500N	3500N
5mm/s	4000N	4000N	4000N

ZJWSN - BZ

Overview

Aluminum alloy, lightweight. Adopts DC stepper motor + gear reduction, with standard internal limit switch. Customizable stroke, easy installation & operation. Modified version enabling simple precise auto-control, eco-friendly. Widely used in labs, universities, model design for preliminary auto-model simulation. Standard configuration: 42-step 4-core motor.

Mechanical Characteristics

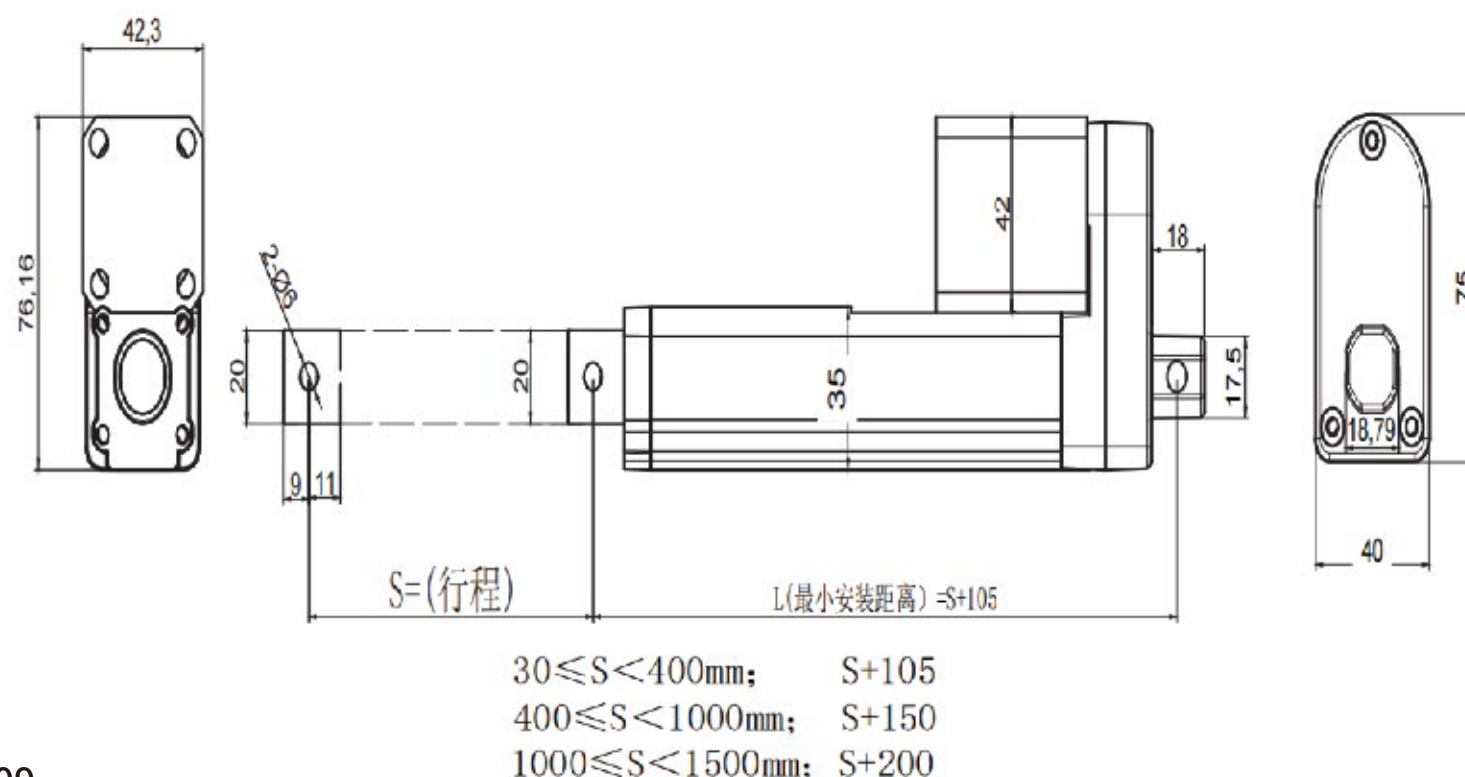
- Operating temperature: -20~65°C
- Aluminum alloy housing and telescopic tube
- Protection class: IP65
- Operating voltage: DC 12V~24V
- Built-in micro switch
- Limit signal feedback
- Low noise
- Simple control

Force Data

- Max Thrust: 500N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 600N
- Max Service Life: 50,000 operations



Product Drawings



ZJWSN - BZ

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	125mm	145mm
30mm	135mm	165mm
50mm	155mm	205mm
100mm	205mm	305mm
150mm	255mm	405mm
200mm	305mm	505mm
250mm	355mm	605mm

Stroke	Retracted Length	Extended Length
300mm	405mm	705mm
350mm	455mm	805mm
400mm	550mm	950mm
450mm	600mm	1050mm
500mm	650mm	1150mm
550mm	700mm	1250mm
600mm	750mm	1350mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Deceleration type		Speed corresponding to 400 RPM (max adjustable to 600-700)			
Gear deceleration	Screw lead	Speed	60-length Motor Thrust	80-length Motor Thrust	Motor Revolutions per Stroke
1:27	1.75	0.5mm/s	1200N	1300N	0.064814815
	3.175	0.8mm/s	1100N	1200N	0.117592593
	5	1.3mm/s	1000N	1100N	0.185185185
	6	1.5mm/s	900N	1000N	0.222222222
	7.5	1.8mm/s	800N	900N	0.277777778
	12	2.25mm/s	700N	800N	0.444444444
1:10	1.75	1mm/s	900N	1000N	0.175
	3.175	2mm/s	800N	900N	0.3175
	5	3mm/s	700N	800N	0.5
	6	4mm/s	600N	700N	0.6
	7.5	5mm/s	500N	600N	0.75
	12	6mm/s	450N	550N	1.2
Timing Belt Deceleration	Screw lead	Speed	60-length Motor Thrust	80-length Motor Thrust	Motor Revolutions per Stroke
1:135	1.75	8mm/s	250N	350N	1.296296296
	3.175	20mm/s	200N	300N	2.351851852
	5	25mm/s	150N	200N	3.703703704
	6	30mm/s	120N	170N	4.444444444
	7.5	35mm/s	80N	120N	5.555555556
	12	45mm/s	50N	80N	8.888888889

ZJWSN - BZ - 1

Overview

Aluminum alloy, lightweight. Adopts DC stepper motor + gear reduction, with standard internal limit switch. Customizable stroke, easy installation & operation. Modified version enabling simple precise auto-control, eco-friendly. Widely used in labs, universities, model design for preliminary auto-model simulation. Standard configuration: 42-step 4-core motor.

Mechanical Characteristics

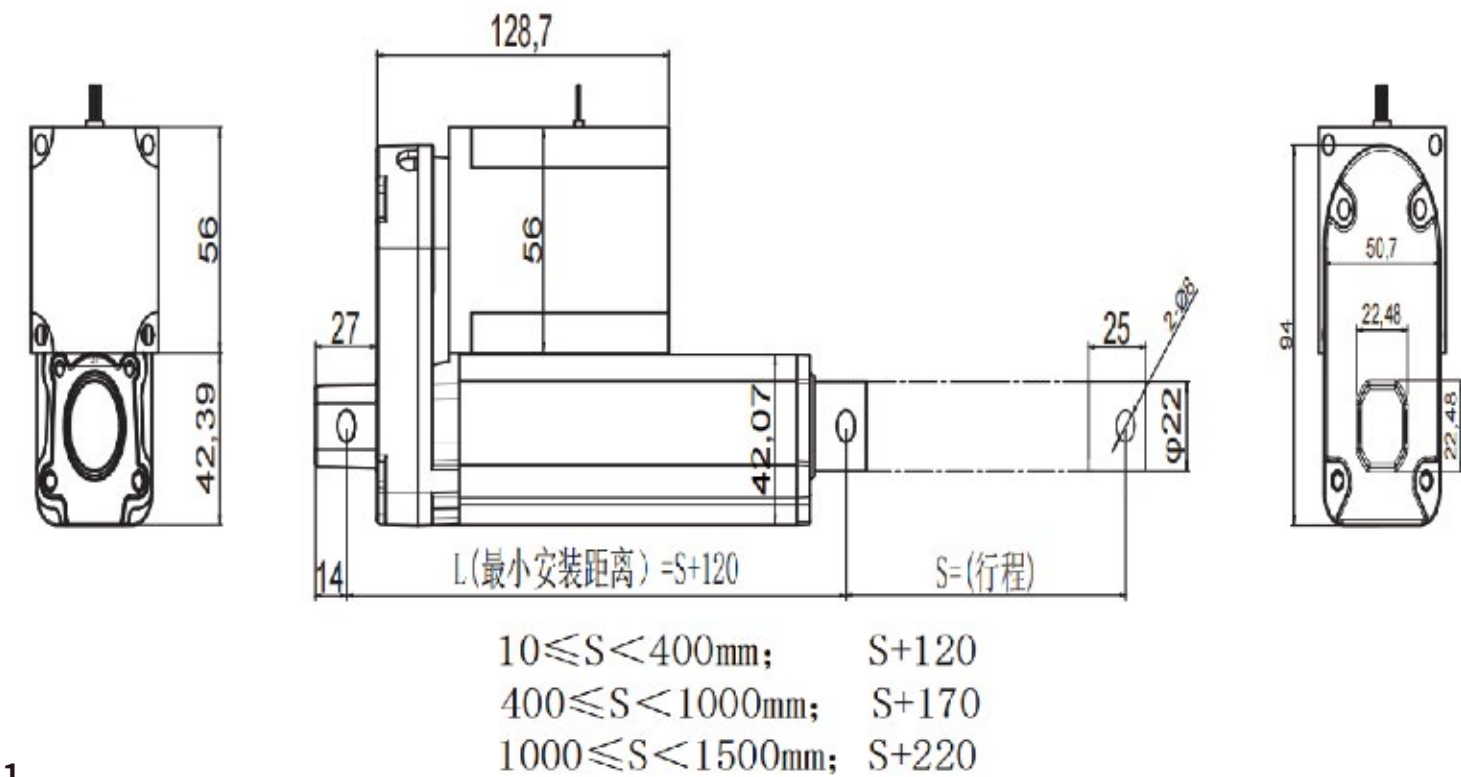
- Operating temperature: -20~65°C
- Aluminum alloy housing and telescopic tube
- Protection class: IP65
- Operating voltage: DC 12V~24V
- Built-in micro switch
- Limit signal feedback
- Low noise
- Simple control

Force Data

- Max Thrust: 4500N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 4500N
- Max Service Life: 50,000 operations



Product Drawings



ZJWSN - BZ - 1

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	140mm	160mm
30mm	150mm	180mm
50mm	170mm	220mm
100mm	220mm	320mm
150mm	270mm	420mm
200mm	320mm	520mm
250mm	370mm	620mm

Stroke	Retracted Length	Extended Length
300mm	420mm	720mm
350mm	470mm	820mm
400mm	570mm	970mm
450mm	620mm	1070mm
500mm	670mm	1170mm
550mm	720mm	1270mm
600mm	770mm	1370mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Deceleration type		Speed corresponding to 400 RPM (max adjustable to 600-700)			
Timing Belt Deceleration	Screw lead	Speed	76-length Motor Thrust	110-length Motor Thrust	Motor Revolutions per Stroke
1:16	2	8mm/s	550N	850N	1.25
	3.175	13mm/s	500N	800N	1.98
	5	20mm/s	450N	700N	3.13
	12	50mm/s	350N	500N	7.5
Gear deceleration	Screw lead	Speed	76-length Motor Thrust	110-length Motor Thrust	Motor Revolutions per Stroke
1:58	2	3mm/s	3000N	4500N	0.34
	3.175	5mm/s	2500N	4000N	0.55
	5	6mm/s	2000N	3000N	0.86
	12	15mm/s	1000N	1500N	2.07

ZJWSN-WS

Overview

Aluminum alloy, lightweight. Uses DC stepper motor + gear reduction, with standard internal limit switch. Customizable stroke, easy installation & operation. Modified version enabling simple precise auto-control, eco-friendly. Widely used in labs, universities, model design for preliminary auto-model simulation. Built-in Hall brushless motor.

Mechanical Characteristics

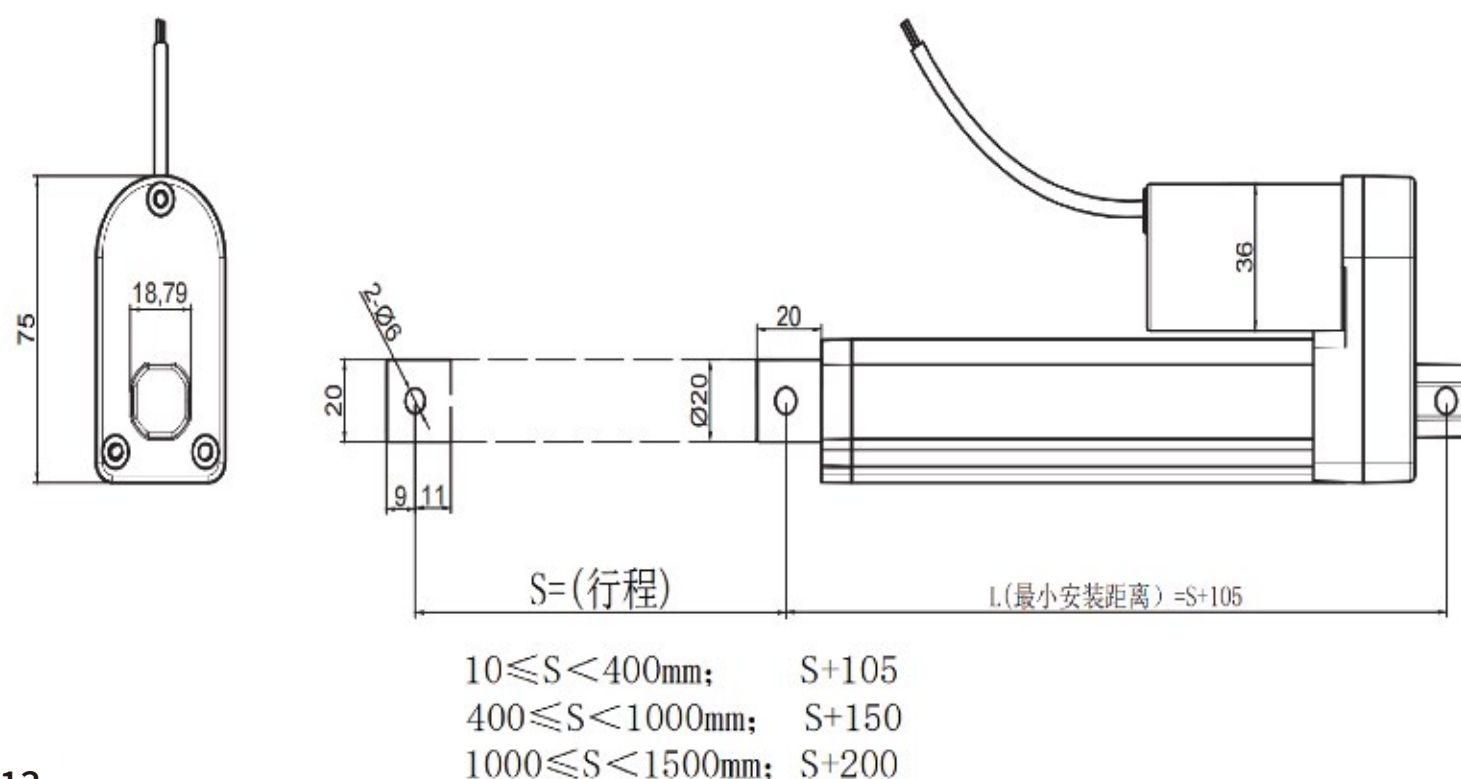
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Protection Class: IP54~65
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Powder Metallurgy Gears
- Limit signal feedback

Force Data

- Max Thrust: 900N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 900N
- Max Service Life: 50,000 operations



Product Drawings



ZJWSN-WS

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	125mm	145mm
30mm	135mm	165mm
50mm	155mm	205mm
70mm	175mm	245mm
100mm	205mm	305mm
150mm	255mm	405mm
200mm	305mm	505mm
250mm	355mm	605mm
300mm	405mm	705mm

Stroke	Retracted Length	Extended Length
350mm	455mm	805mm
400mm	550mm	950mm
450mm	600mm	1050mm
500mm	650mm	1150mm
550mm	700mm	1250mm
600mm	750mm	1350mm
650mm	800mm	1450mm
700mm	850mm	1550mm
800mm	950mm	1750mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
90mm/s	100N	100N	50N
65mm/s	150N	150N	75N
45mm/s	200N	200N	100N
30mm/s	300N	300N	150N
20mm/s	500N	500N	250N
15mm/s	700N	700N	350N
10mm/s	900N	900N	450N
5mm/s	1000N	1000N	500N

ZJWSN - A

Overview

Aluminum alloy material, compact structure design, light weight. Adopting DC motor gear reduction with built-in micro switch, it can automatically stop when the stroke is completed. Stroke can be customized; easy to install and operate. It can replace traditional mechanical push-pull products such as hydraulic and pneumatic ones, being green and eco-friendly. Widely used in mechanical automation, medical equipment, intelligent devices, IoT and other fields, it will exist as a basic accessory for intelligent devices for a long time.

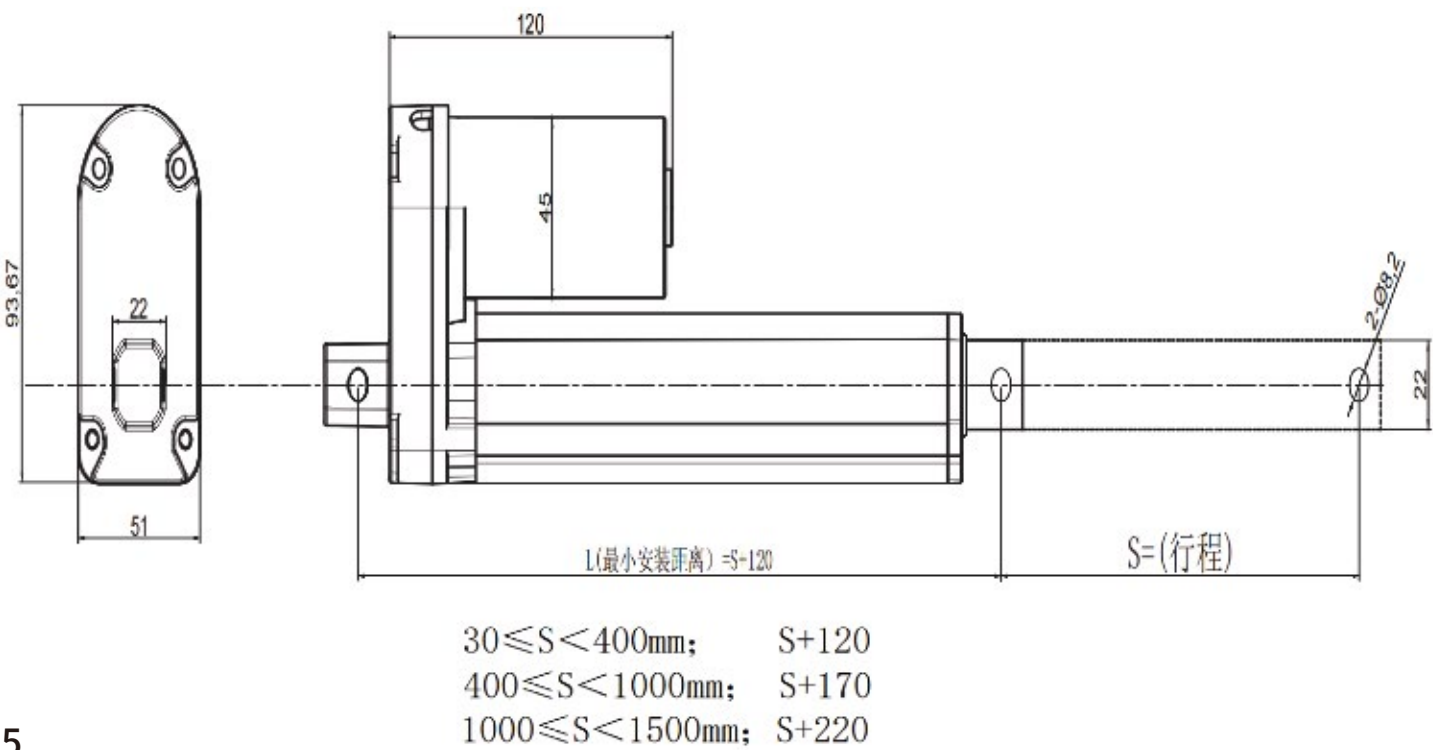
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Powder metallurgy gear
- Replaceable brushless motor
- Optional potentiometer
- Sturdy and durable
- Optional Hall sensor
- Optional magnetic switch

Force Data

- Max Thrust: 4500N, with optional copper nut configuration.
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 5000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN - A

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	140mm	160mm
30mm	150mm	180mm
50mm	170mm	220mm
100mm	220mm	320mm
150mm	270mm	420mm
200mm	320mm	520mm
250mm	370mm	620mm

Stroke	Retracted Length	Extended Length
300mm	420mm	720mm
350mm	470mm	820mm
400mm	570mm	970mm
450mm	620mm	1070mm
500mm	670mm	1170mm
550mm	720mm	1270mm
600mm	770mm	1370mm

*Stroke and installation dimensions can be customized.

Speed and Torque

	No-load speed	Load speed	Thrust force	Tensile force	Self-locking force
60W motor	5mm/s	4mm/s	3500N	3500N	5000N
	8mm/s	5mm/s	3000N	3000N	3500N
	10mm/s	8mm/s	2500N	2500N	3000N
	15mm/s	10mm/s	2000N	2000N	2500N
	20mm/s	15mm/s	1200N	1200N	1200N
	30mm/s	20mm/s	1000N	1000N	1000N
	40mm/s	30mm/s	750N	750N	600N
80W motor	5mm/s	3mm/s	4500N	4500N	5000N
	10mm/s	8mm/s	3000N	3000N	3500N
	15mm/s	10mm/s	2500N	2500N	3000N
	20mm/s	15mm/s	1500N	1500N	2000N
	25mm/s	17mm/s	1200N	1200N	1200N

ZJWSN-A1

Overview

Aluminum alloy material, compact structure, light weight. Adopts DC motor gear reduction, with built-in micro switch for automatic stop after stroke completion. Customizable stroke, easy installation and operation. Replaces traditional mechanical push-pull products (hydraulic, pneumatic, etc.), eco-friendly. Widely used in mechanical automation, medical equipment, intelligent devices, IoT and other fields; will serve as a long-term basic accessory for intelligent devices.

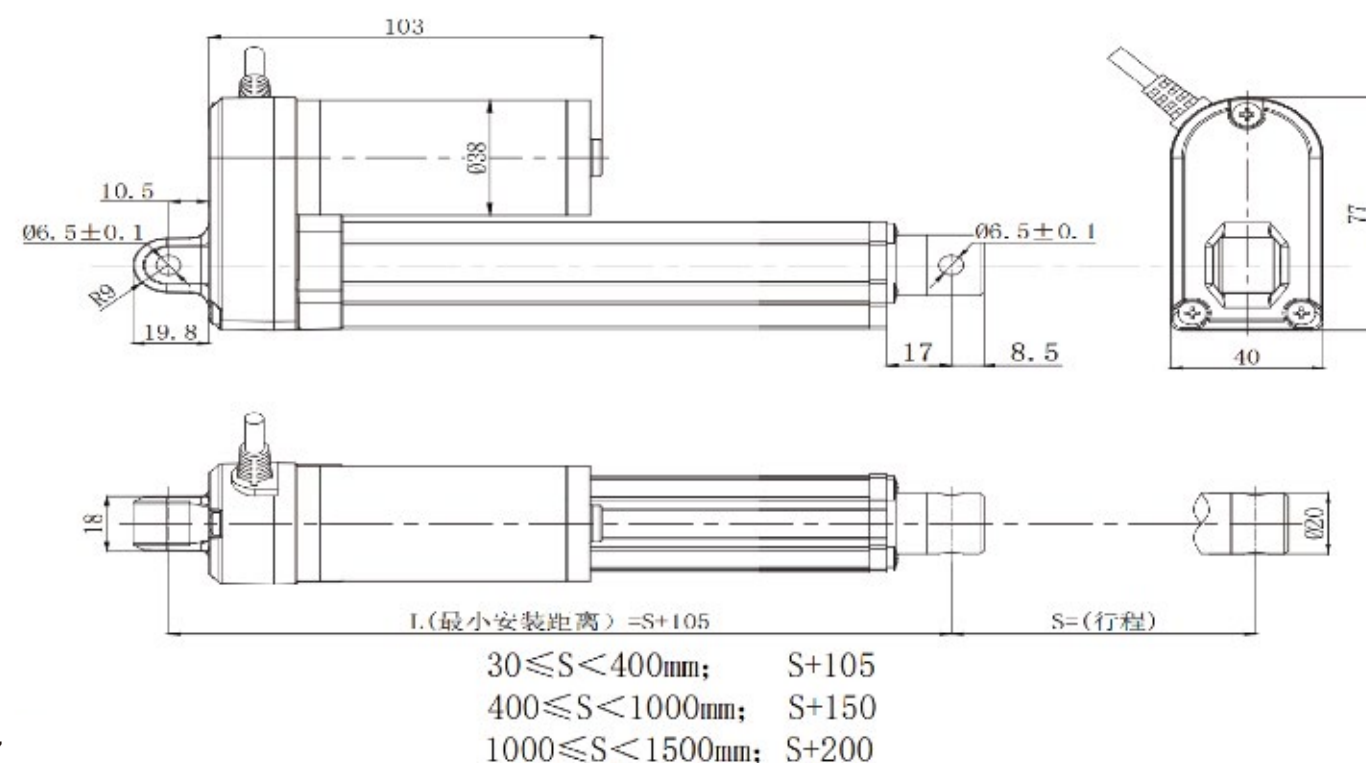
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Powder metallurgy gear
- Optional magnetic switch
- Sturdy and durable
- Optional Hall sensor
- Optional potentiometer

Force Data

- Max Thrust: 2000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 2000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN-A1

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	125mm	145mm
30mm	135mm	165mm
50mm	155mm	205mm
70mm	175mm	245mm
100mm	205mm	305mm
150mm	255mm	405mm
200mm	305mm	505mm
250mm	355mm	605mm
300mm	405mm	705mm

Stroke	Retracted Length	Extended Length
350mm	455mm	805mm
400mm	550mm	950mm
450mm	600mm	1050mm
500mm	650mm	1150mm
550mm	700mm	1250mm
600mm	750mm	1350mm
650mm	800mm	1450mm
700mm	850mm	1550mm
800mm	950mm	1750mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
160mm/s	100N	100N	100N
100mm/s	200N	200N	200N
65mm/s	250N	250N	250N
55mm/s	300N	300N	300N
45mm/s	400N	400N	400N
38mm/s	500N	500N	500N
25mm/s	700N	700N	700N
20mm/s	800N	800N	800N
15mm/s	1000N	1000N	1000N
12mm/s	1500N	1500N	1500N
7mm/s	1800N	1800N	1800N
5mm/s	2000N	2000N	2000N

ZJWSN-A2

Overview

Aluminum alloy material, compact structure, light weight. Adopts DC motor gear reduction, with built-in micro switch for automatic stop after stroke completion. Customizable stroke, easy installation and operation. Replaces traditional mechanical push-pull products (hydraulic, pneumatic, etc.), eco-friendly. Widely used in mechanical automation, medical equipment, intelligent devices, IoT and other fields; will serve as a long-term basic accessory for intelligent devices.

Mechanical Characteristics

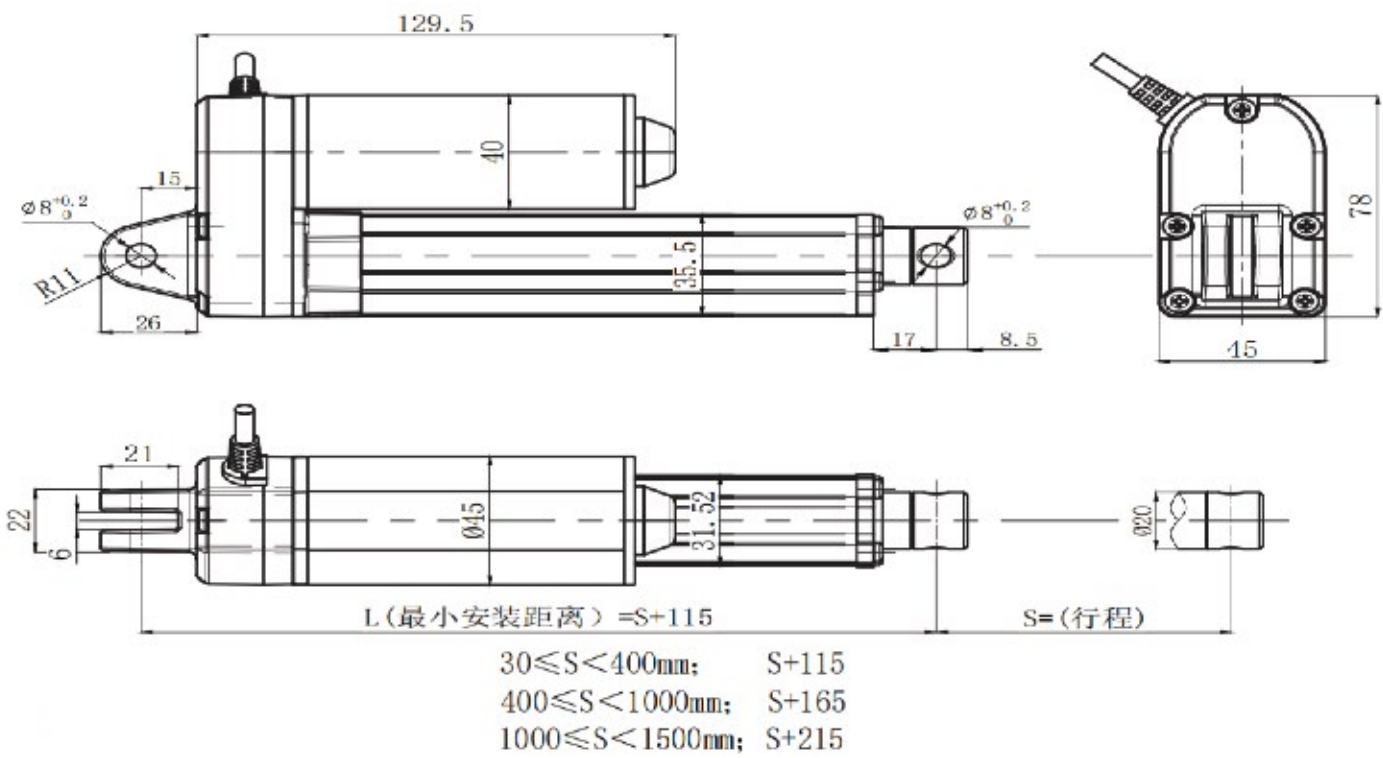
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Powder metallurgy gear
- Optional magnetic switch
- Sturdy and durable
- Optional Hall sensor
- Optional potentiometer

Force Data

- Max Thrust: 3000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 3000N
- Max Service Life: 50,000 operations



Product Drawings



ZJWSN-A2

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	135mm	155mm
30mm	145mm	175mm
50mm	165mm	215mm
70mm	185mm	255mm
100mm	215mm	315mm
150mm	315mm	415mm
200mm	305mm	515mm
250mm	365mm	615mm
300mm	415mm	715mm

Stroke	Retracted Length	Extended Length
350mm	465mm	815mm
400mm	560mm	965mm
450mm	610mm	1065mm
500mm	660mm	1165mm
550mm	715mm	1265mm
600mm	765mm	1365mm
650mm	815mm	1465mm
700mm	865mm	1565mm
800mm	965mm	1765mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
150mm/s	150N	150N	150N
95mm/s	200N	200N	200N
65mm/s	300N	300N	300N
55mm/s	400N	400N	400N
35mm/s	600N	600N	600N
26mm/s	800N	800N	800N
18mm/s	1100N	1100N	1100N
12mm/s	1600N	1600N	1600N
8mm/s	2100N	2100N	2100N
6mm/s	2400N	2400N	2400N
5mm/s	2800N	2800N	2800N

ZJWSN-JY

Overview

Aluminum alloy material, compact structure, light weight. Adopts DC motor gear reduction, with built-in micro switch for automatic stop after stroke completion. Customizable stroke, easy to install and operate. Replaces traditional mechanical push-pull products (hydraulic, pneumatic, etc.), eco-friendly. Widely used in backrest lifting of aircraft, ships, luxury car seats, as well as in massage chairs, massage beds, fire-fighting equipment, medical devices, furniture and other products.

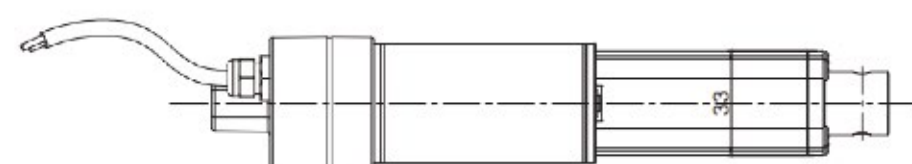
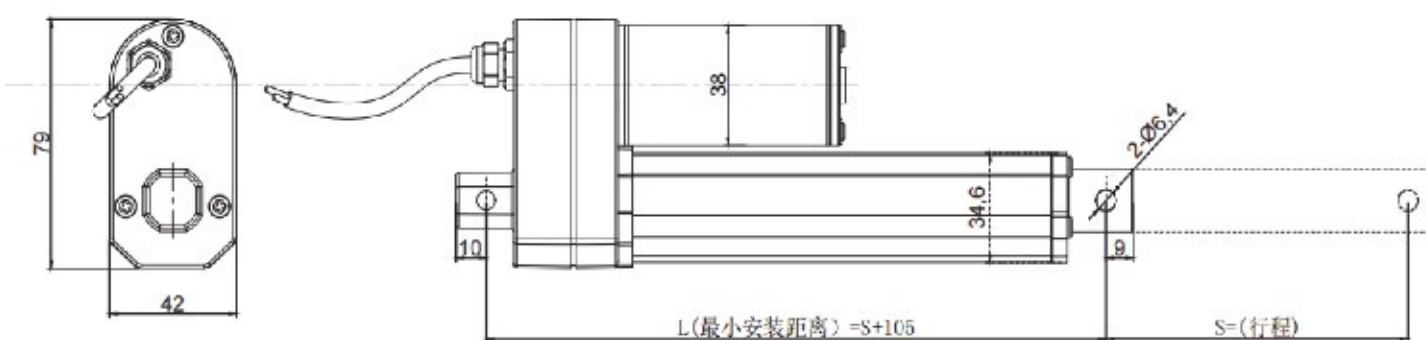
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Sturdy and durable
- Low noise (around 45dB)
- Optional Hall sensor

Force Data

- Max Thrust: 1200N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 1200N
- Max Service Life: 30,000 operations

Product Drawings



$10 \leq S < 400\text{mm}; \quad S+105$
 $400 \leq S < 1000\text{mm}; \quad S+150$
 $1000 \leq S < 1500\text{mm}; \quad S+200$

ZJWSN-JY

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	125mm	145mm
30mm	135mm	165mm
50mm	155mm	205mm
70mm	175mm	245mm
100mm	205mm	305mm
150mm	255mm	405mm
200mm	305mm	505mm
250mm	355mm	605mm
300mm	405mm	705mm

Stroke	Retracted Length	Extended Length
350mm	455mm	805mm
400mm	550mm	950mm
450mm	600mm	1050mm
500mm	650mm	1150mm
550mm	700mm	1250mm
600mm	750mm	1350mm
650mm	800mm	1450mm
700mm	850mm	1550mm
800mm	950mm	1750mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
15mm/s	600N	600N	600N
10mm/s	1000N	1000N	1000N
6mm/s	1200N	1200N	1200N

ZJWSN-JY1

Overview

Aluminum alloy material, compact structure, light weight. Adopts DC motor gear reduction, with built-in micro switch for automatic stop after stroke completion. Customizable stroke, easy to install and operate. Replaces traditional mechanical push-pull products (hydraulic, pneumatic, etc.), eco-friendly. Widely used in backrest lifting of aircraft, ships, luxury car seats, as well as in massage chairs, massage beds, fire-fighting equipment, medical devices, furniture and other products.

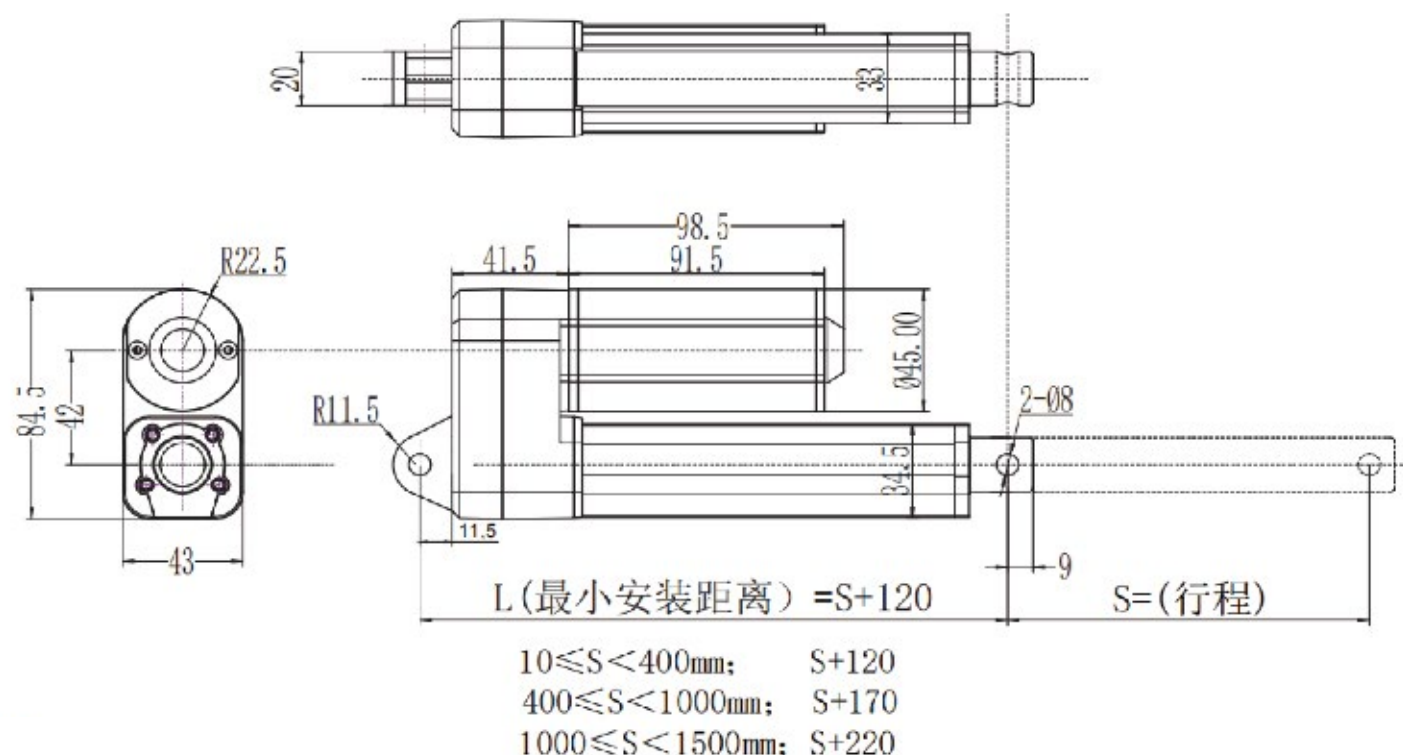
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Sturdy and durable
- Low noise (around 45dB)
- Optional Hall sensor

Force Data

- Max Thrust: 2500N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 2500N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN-JY1

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	150mm	180mm
50mm	170mm	220mm
100mm	220mm	320mm
150mm	270mm	420mm
200mm	320mm	520mm
250mm	370mm	620mm
300mm	420mm	720mm
350mm	470mm	820mm

Stroke	Retracted Length	Extended Length
400mm	570mm	970mm
450mm	620mm	1070mm
500mm	670mm	1170mm
550mm	720mm	1270mm
600mm	770mm	1370mm
700mm	870mm	1570mm
800mm	970mm	1770mm
900mm	1070mm	1970mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
23mm/s	500N	500N	500N
17mm/s	700N	700N	700N
15mm/s	1000N	1000N	1000N
13mm/s	1200N	1200N	1200N
10mm/s	1500N	1500N	1500N
6mm/s	2000N	2000N	2000N
3mm/s	2500N	2500N	2500N

ZJWSN-JY2

Overview

Aluminum alloy material, compact structure, light weight. Adopts DC motor gear reduction, with built-in micro switch for automatic stop after stroke completion. Customizable stroke, easy to install and operate. Replaces traditional mechanical push-pull products (hydraulic, pneumatic, etc.), eco-friendly. Widely used in backrest lifting of aircraft, ships, luxury car seats, as well as in massage chairs, massage beds, fire-fighting equipment, medical devices, furniture and other products.

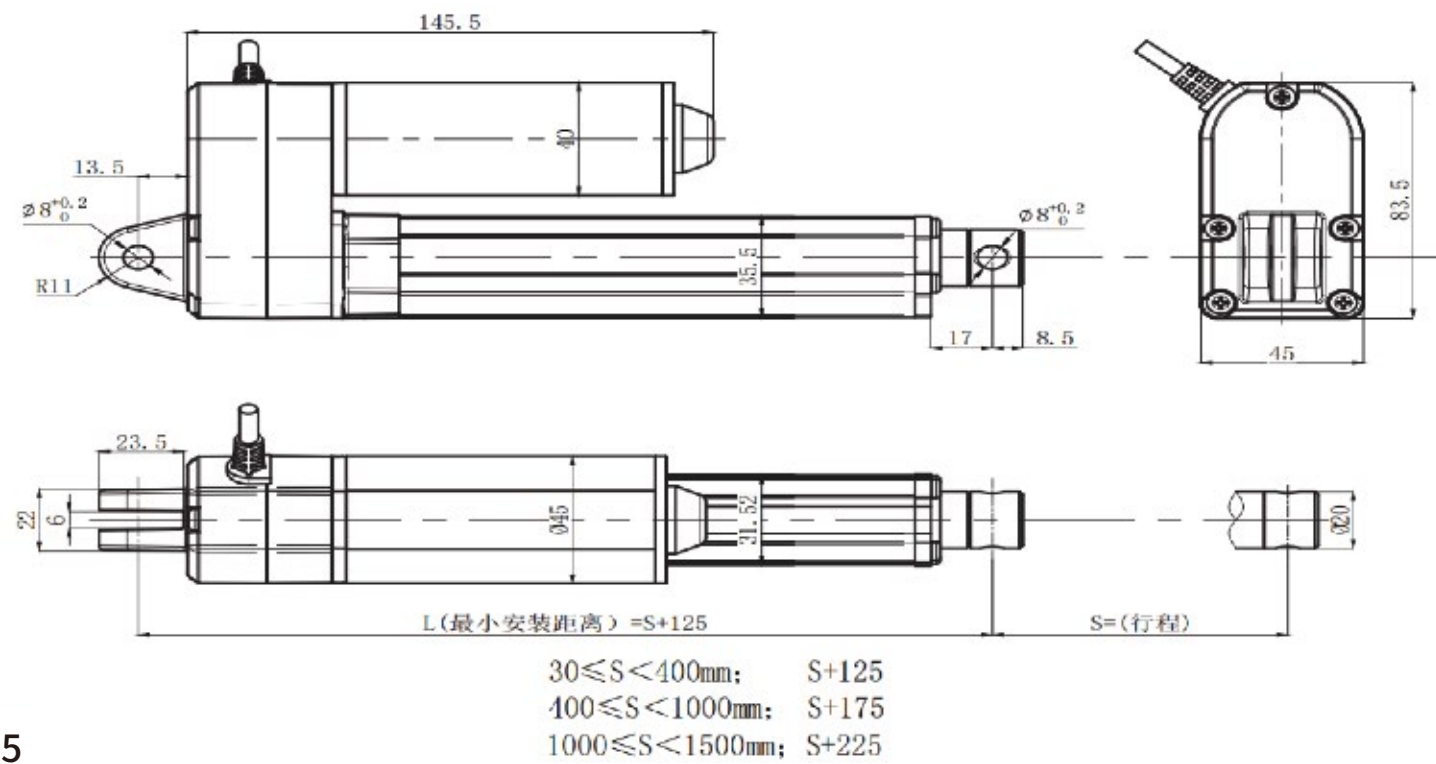
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Sturdy and durable
- Low noise (around 45dB)
- Optional Hall sensor

Force Data

- Max Thrust: 2000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 2000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN-JY2

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	155mm	185mm
50mm	175mm	225mm
100mm	225mm	325mm
150mm	275mm	425mm
200mm	325mm	525mm
250mm	375mm	625mm
300mm	425mm	725mm
350mm	475mm	825mm

Stroke	Retracted Length	Extended Length
400mm	575mm	975mm
450mm	625mm	1075mm
500mm	675mm	1175mm
550mm	725mm	1275mm
600mm	775mm	1375mm
700mm	875mm	1575mm
800mm	975mm	1775mm
900mm	1075mm	1975mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
50mm/s	400N	400N	400N
30mm/s	500N	500N	500N
27mm/s	800N	800N	800N
15mm/s	900N	900N	900N
14mm/s	1000N	1000N	1000N
11mm/s	1500N	1500N	1500N
9mm/s	1800N	1800N	1800N
7mm/s	2000N	2000N	2000N

ZJWSN-JF

Overview

Aluminum alloy material, light weight. Adopts DC motor with worm gear reduction, built-in standard limit switch. Customizable stroke, easy installation and operation. This is a modified product, enabling simple and precise automatic control, eco-friendly. Widely used in labs, universities, furniture models, medical care, automation equipment and other occasions requiring high noise and protection level.

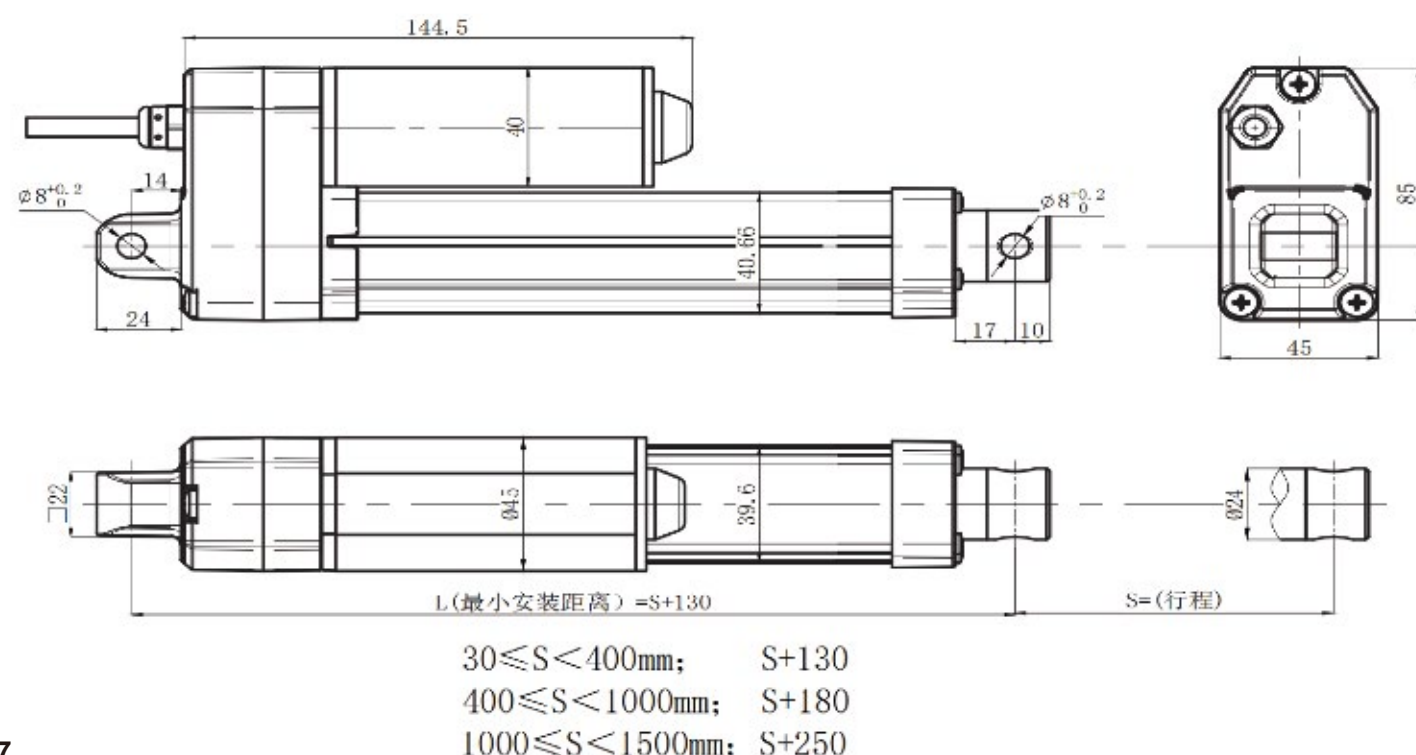
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Optional Hall sensor
- Low noise (around 45dB)
- Worm gear
- Sturdy and durable
- Optional magnetic switch

Force Data

- Max Thrust: 4000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 4000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN-JF

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	150mm	170mm
30mm	160mm	190mm
50mm	180mm	230mm
70mm	200mm	270mm
100mm	230mm	330mm
150mm	280mm	430mm
200mm	330mm	530mm
250mm	380mm	630mm
300mm	430mm	730mm

Stroke	Retracted Length	Extended Length
350mm	480mm	830mm
400mm	580mm	980mm
450mm	630mm	1080mm
500mm	680mm	1180mm
550mm	730mm	1280mm
600mm	780mm	1380mm
650mm	830mm	1480mm
700mm	880mm	1580mm
800mm	980mm	1780mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
15mm/s	1500N	1500N	1500N
13mm/s	2000N	2000N	2000N
10mm/s	2500N	2500N	2500N
6mm/s	3500N	3500N	3500N
5mm/s	4000N	4000N	4000N

ZJWSN-FS

Overview

Made of aluminum alloy, it features a compact structure and light weight. Equipped with a DC motor gear reducer and built-in micro switch, it stops automatically after completing the stroke. The stroke can be customized, with easy installation and operation. It replaces traditional mechanical push-pull products (e.g., hydraulic, pneumatic) and is eco-friendly. This model has a high waterproof rating, suitable for outdoor and harsh environments.

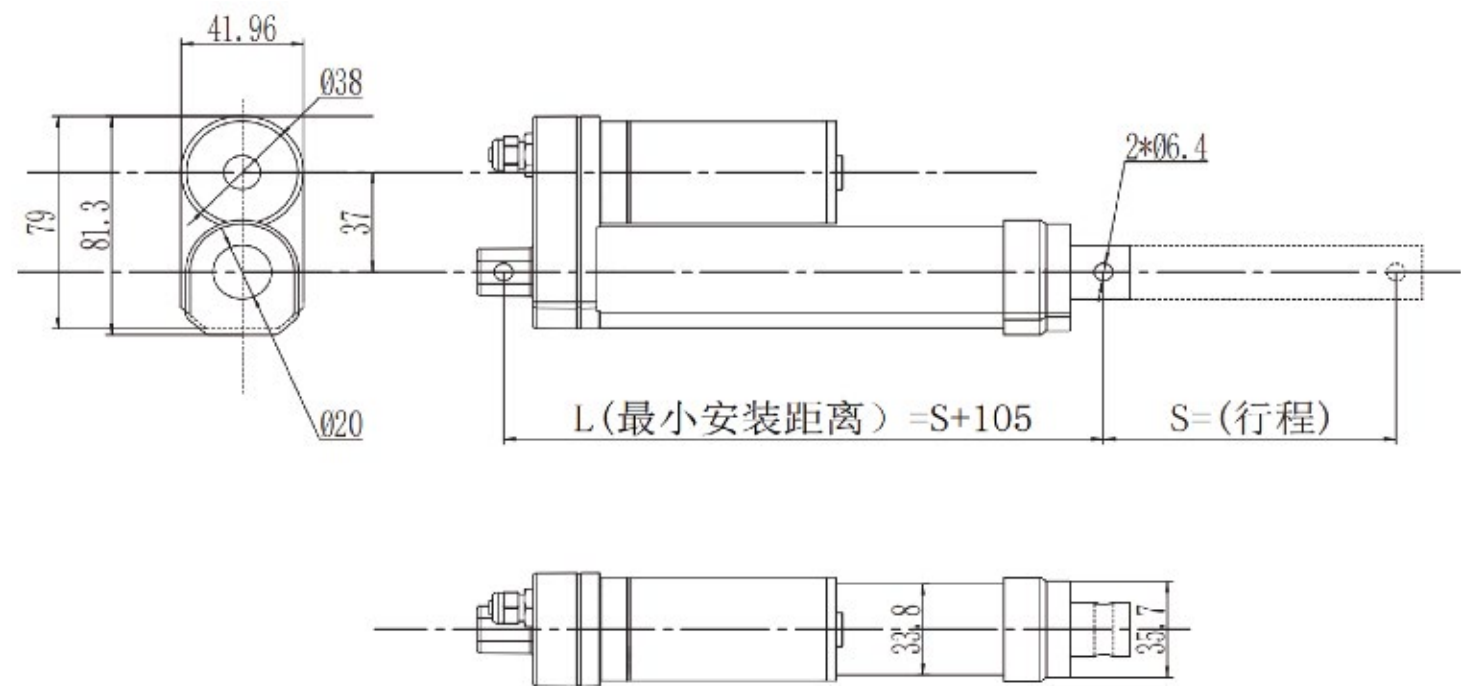
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP68
- Built-in micro switch
- Robust and durable
- Usable under water at a depth of less than 1 meter

Force Data

- Max Thrust: 1200N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 1200N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN-FS

Installation Dimensions

Stroke	Retracted Length	Extended Length
20mm	135mm	155mm
30mm	135mm	165mm
50mm	155mm	205mm
70mm	175mm	245mm
100mm	205mm	305mm
150mm	255mm	405mm
200mm	305mm	505mm
250mm	355mm	605mm
300mm	405mm	705mm

Stroke	Retracted Length	Extended Length
350mm	455mm	805mm
400mm	550mm	950mm
450mm	600mm	1050mm
500mm	650mm	1150mm
550mm	700mm	1250mm
600mm	750mm	1350mm
650mm	800mm	1450mm
700mm	850mm	1550mm
800mm	950mm	1750mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
40mm/s	200N	200N	200N
30mm/s	300N	300N	300N
24mm/s	450N	450N	450N
18mm/s	600N	600N	600N
15mm/s	700N	700N	700N
12mm/s	750N	750N	750N
10mm/s	800N	800N	800N
6mm/s	900N	900N	900N
3mm/s	1200N	1200N	1200N

ZJWSN-L

Overview

Made of aluminum alloy and lightweight, it uses a DC motor gear reducer with built-in standard limit switches. The stroke is customizable, with easy installation and operation. As a modified product, it enables simple and precise automatic control, is eco-friendly, and widely used in backrest lifting for aircraft, ships, luxury car seats, as well as massage chairs, massage beds, fire-fighting equipment, medical devices, furniture, etc.

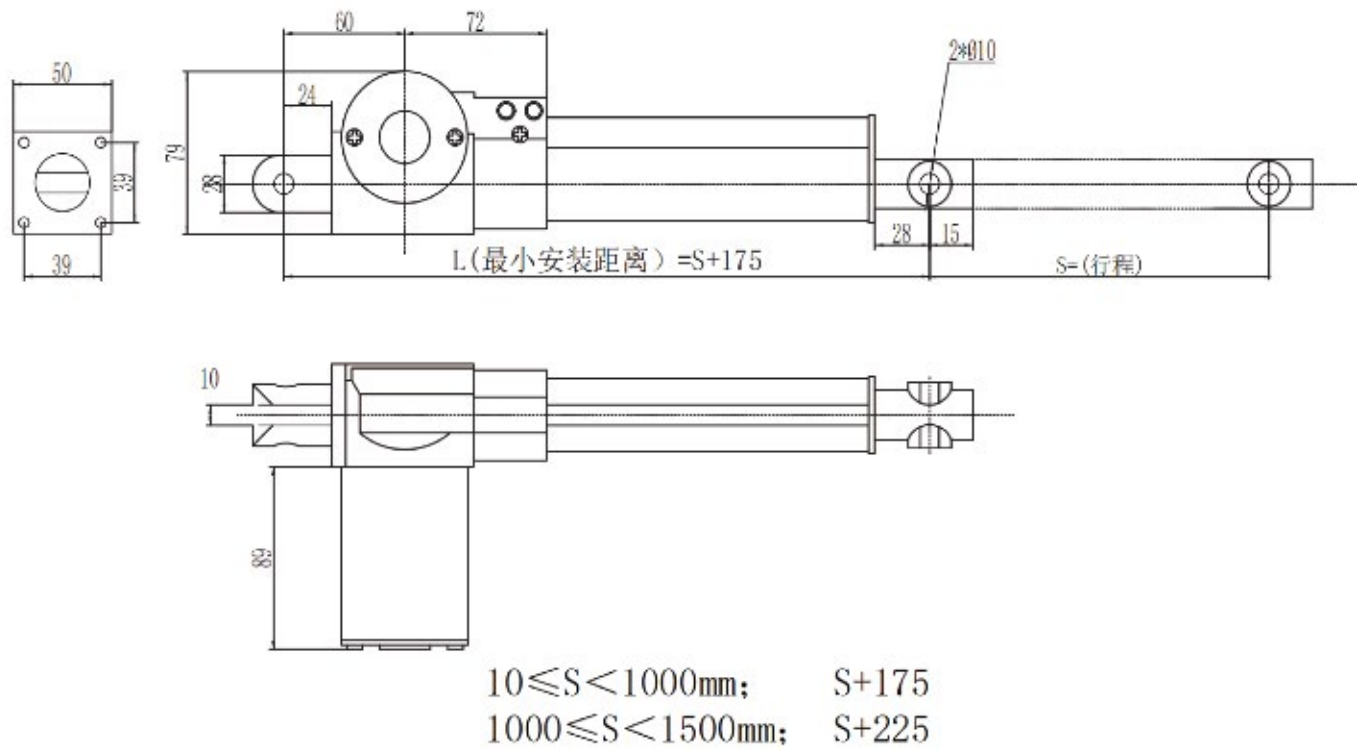
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP54~65
- Built-in micro switch
- Robust and durable
- Hall sensor can be added
- Nylon plastic gears
- Steel gears available as an option

Force Data

- Max Thrust: 6000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 6000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN-L

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	205mm	235mm
50mm	225mm	275mm
100mm	275mm	375mm
150mm	325mm	475mm
200mm	375mm	575mm
250mm	425mm	675mm
300mm	475mm	775mm
350mm	525mm	875mm

Stroke	Retracted Length	Extended Length
400mm	575mm	975mm
450mm	625mm	1075mm
500mm	675mm	1175mm
550mm	725mm	1275mm
600mm	775mm	1375mm
700mm	875mm	1575mm
800mm	975mm	1775mm
900mm	1075mm	1975mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
30mm/s	500N	500N	500N
25mm/s	750N	750N	750N
20mm/s	1000N	1000N	1000N
15mm/s	1500N	1500N	1500N
12mm/s	2000N	2000N	2000N
10mm/s	3000N	3000N	3000N
8mm/s	4000N	4000N	4000N
5mm/s	6000N	6000N	6000N

ZJWSN-L1

Overview

Made of aluminum alloy (lightweight), it adopts DC motor gear reduction with built-in standard limit switches. Customizable stroke, easy installation & operation. As a modified product, it enables simple and precise automatic control, is eco-friendly, and widely used in backrest lifting for aircraft, ships, luxury car seats, as well as massage chairs, massage beds, fire-fighting equipment, medical devices, furniture, etc.

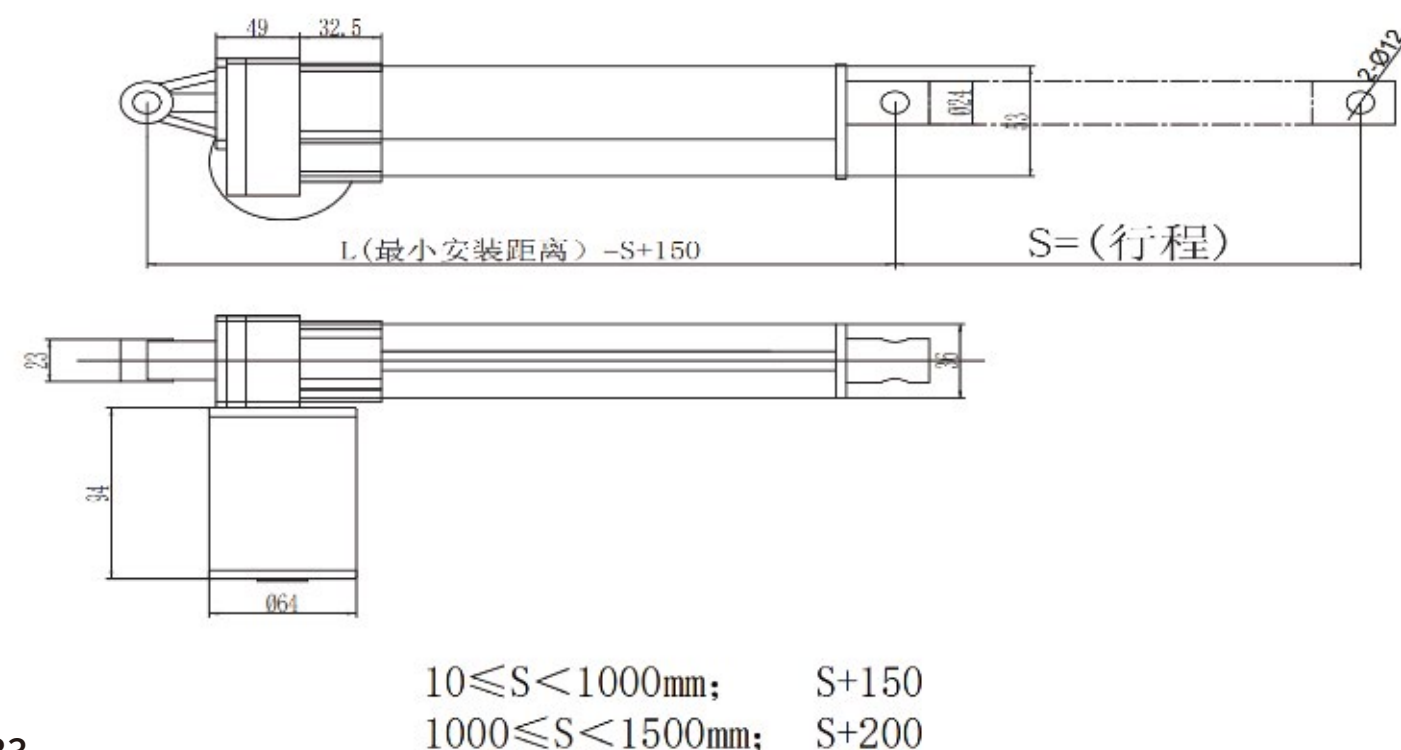
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP54
- Built-in micro switch
- Robust and durable
- Hall sensor can be added
- Nylon plastic gears
- Steel gears available as an option

Force Data

- Max Thrust: 6000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 6000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN-L1

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	180mm	210mm
50mm	200mm	250mm
100mm	250mm	350mm
150mm	300mm	440mm
200mm	350mm	550mm
250mm	400mm	650mm
300mm	450mm	750mm
350mm	500mm	850mm

Stroke	Retracted Length	Extended Length
400mm	550mm	950mm
450mm	600mm	1050mm
500mm	650mm	1150mm
550mm	700mm	1250mm
600mm	750mm	1350mm
700mm	850mm	1550mm
800mm	950mm	1750mm
900mm	1050mm	1950mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
30mm/s	500N	500N	500N
25mm/s	750N	750N	750N
20mm/s	1000N	1000N	1000N
15mm/s	1500N	1500N	1500N
12mm/s	2000N	2000N	2000N
10mm/s	3000N	3000N	3000N
8mm/s	4000N	4000N	4000N
5mm/s	6000N	6000N	6000N

ZJWSN-L2

Overview

Made of aluminum alloy with a compact structure, it uses a DC motor turbine and built-in micro switch for automatic stop after stroke completion. Customizable stroke, easy installation and operation. It replaces traditional mechanical push-pull products (e.g., hydraulic, pneumatic), is eco-friendly, and widely used in household items like car seats, lift tables and table extenders.

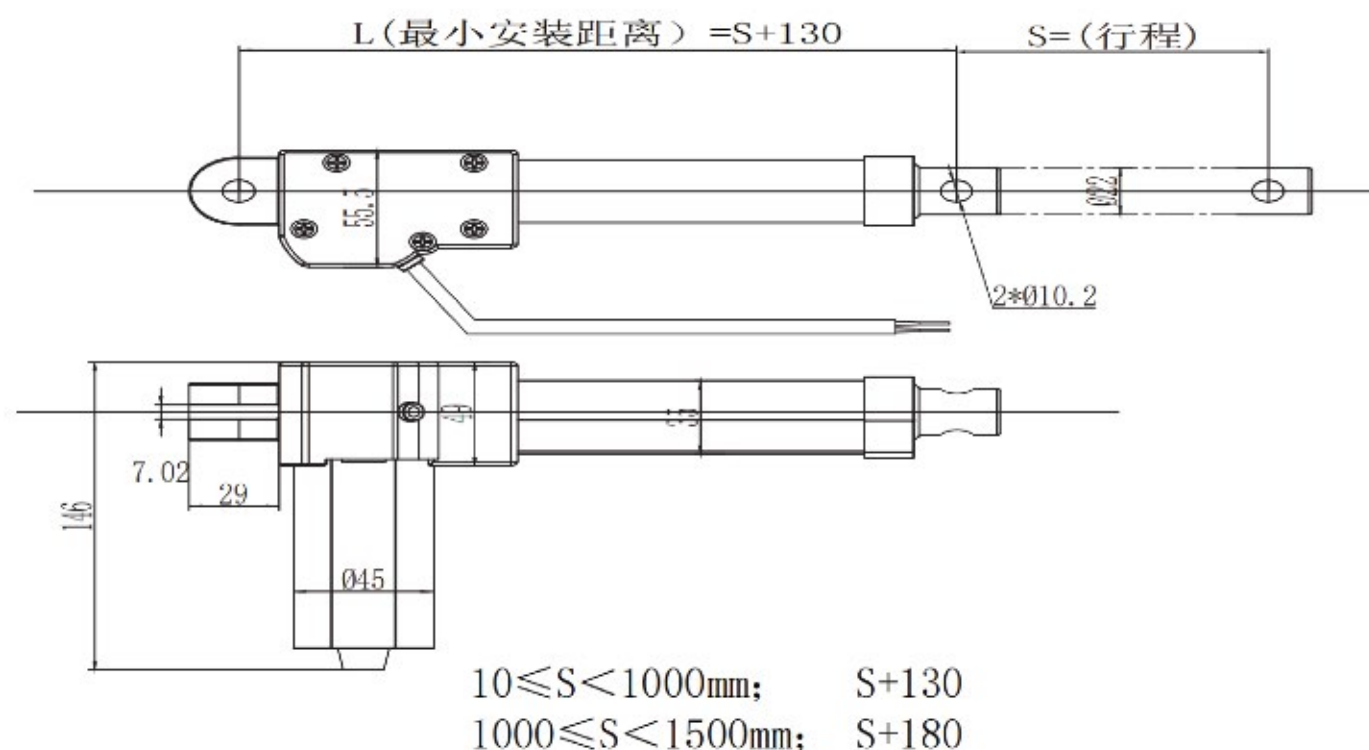
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP54
- Built-in micro switch
- Robust and durable
- Nylon plastic gears
- Hall sensor can be added
- Low noise (around 50dB)

Force Data

- Max Thrust: 2500N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 2500N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN-L2

Installation Dimensions

Stroke	Retracted Length	Extended Length
50mm	180mm	230mm
100mm	230mm	330mm
150mm	280mm	430mm
200mm	330mm	530mm
250mm	380mm	630mm
300mm	430mm	730mm
350mm	480mm	830mm

Stroke	Retracted Length	Extended Length
400mm	530mm	930mm
450mm	580mm	1030mm
500mm	630mm	1130mm
550mm	680mm	1230mm
600mm	730mm	1330mm
700mm	830mm	1530mm
800mm	930mm	1730mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
30mm/s	500N	500N	500N
20mm/s	1000N	1000N	1000N
13mm/s	1500N	1500N	1500N
8mm/s	2000N	2000N	2000N
5mm/s	2500N	2500N	2500N

ZJWSN - B

Overview

Made of stainless steel with a compact structure and high protection rating, it uses a DC motor gear reducer, built-in micro switch (and optional overheat protection) for automatic stop after stroke completion. Customizable stroke, easy installation and operation. It replaces traditional mechanical push-pull products (e.g., hydraulic, pneumatic), is eco-friendly, and widely used in backrest lifting for aircraft, ships, luxury car seats, as well as massage chairs, massage beds, fire-fighting equipment, medical devices, furniture, etc.

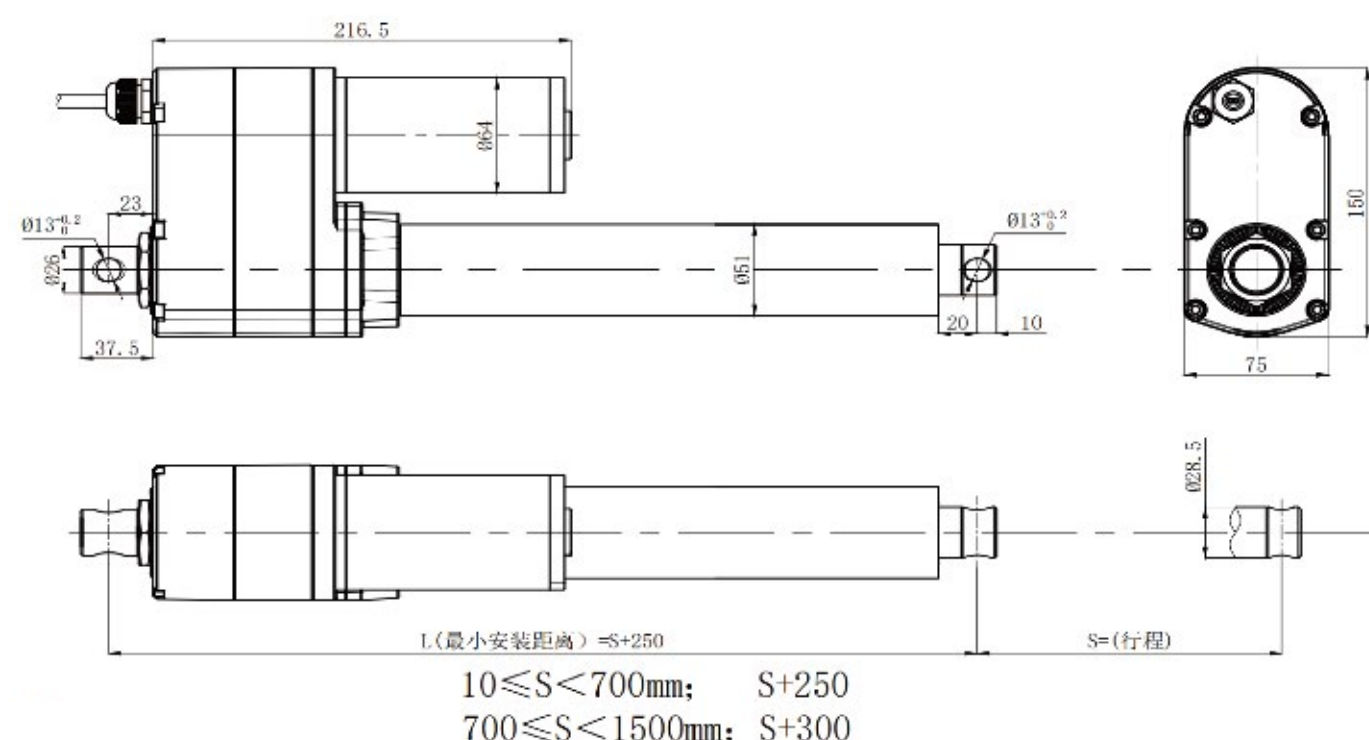
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Powder metallurgy gears
- Hall sensor can be added
- Robust and durable
- Magnetic switch can be added
- Potentiometer can be added

Force Data

- Max Thrust: 10000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 10000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN - B

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	280mm	310mm
50mm	300mm	350mm
100mm	350mm	450mm
150mm	400mm	550mm
200mm	450mm	650mm
250mm	500mm	750mm
300mm	550mm	850mm
350mm	600mm	950mm

Stroke	Retracted Length	Extended Length
400mm	650mm	1050mm
450mm	700mm	1150mm
500mm	750mm	1250mm
550mm	800mm	1350mm
600mm	850mm	1450mm
700mm	1000mm	1700mm
800mm	1100mm	1900mm
900mm	1200mm	2100mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
80mm/s	1000N	1000N	1000N
67mm/s	1000N	1000N	1000N
35mm/s	2000N	2000N	2000N
25mm/s	3000N	3000N	3000N
17mm/s	4000N	4000N	4000N
12mm/s	5000N	5000N	5000N
10mm/s	6000N	6000N	6000N
9mm/s	7000N	7000N	7000N
6mm/s	7000N	7000N	7000N
5mm/s	8000N	8000N	8000N
3mm/s	10000N	10000N	10000N

ZJWSN - B1

Overview

Made of stainless steel with a compact structure and high protection rating, it uses a DC motor gear reducer, built-in micro switch (and optional overheat protection) for automatic stop after stroke completion. Customizable stroke, easy installation and operation. It replaces traditional mechanical push-pull products (e.g., hydraulic, pneumatic), is eco-friendly, and widely used in backrest lifting for aircraft, ships, luxury car seats, as well as massage chairs, massage beds, fire-fighting equipment, medical devices, furniture, etc.

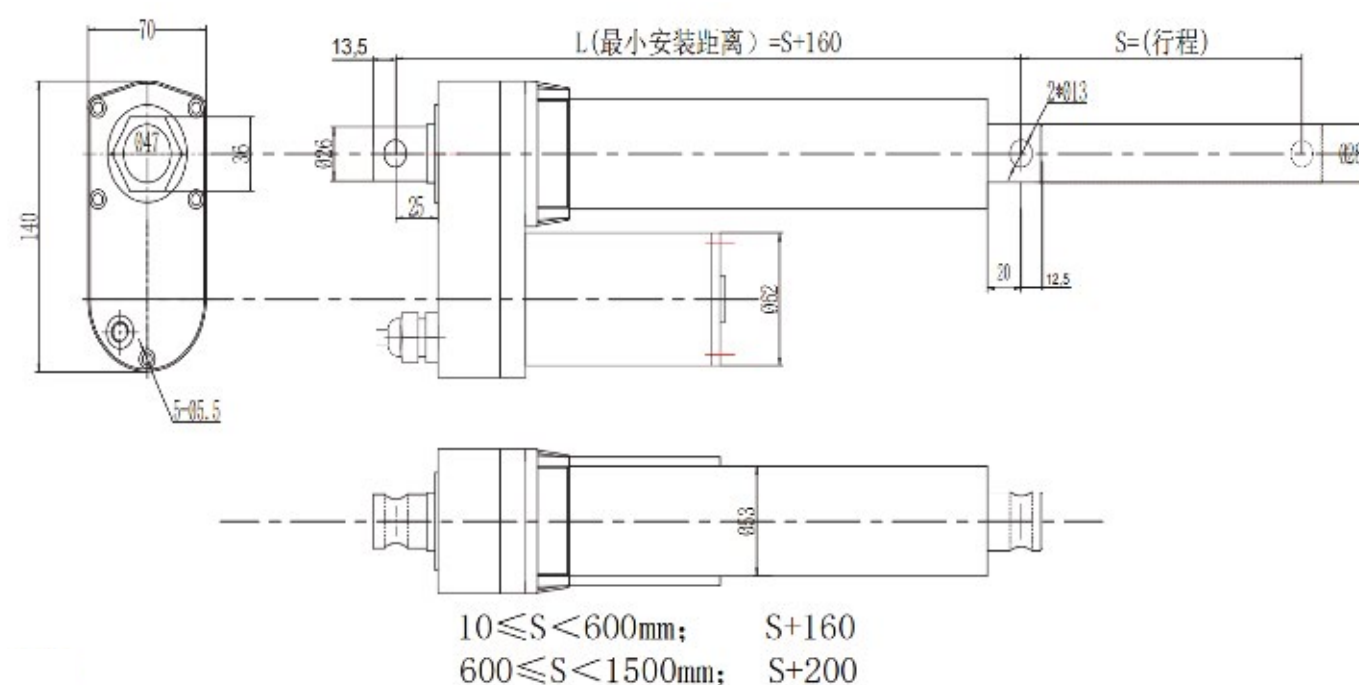
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Robust and durable
- Hall sensor can be added
- Magnetic switch can be added
- Potentiometer can be added

Force Data

- Max Thrust: 7000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 7000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN - B1

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	190mm	220mm
50mm	210mm	260mm
100mm	260mm	360mm
150mm	310mm	460mm
200mm	360mm	575mm
250mm	410mm	660mm
300mm	460mm	760mm
350mm	510mm	860mm

Stroke	Retracted Length	Extended Length
400mm	560mm	960mm
450mm	610mm	1060mm
500mm	660mm	1160mm
550mm	710mm	1260mm
600mm	800mm	1400mm
700mm	900mm	1600mm
800mm	1000mm	1800mm
900mm	1100mm	2000mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
30mm/s	1500N	1500N	1500N
24mm/s	2000N	2000N	2000N
20mm/s	2500N	2500N	2500N
15mm/s	3000N	3000N	3000N
10mm/s	4000N	4000N	4000N
8mm/s	4500N	4500N	4500N
5mm/s	6000N	6000N	6000N
3mm/s	7000N	7000N	7000N

ZJWSN - B2

Overview

Made of stainless steel with a compact structure and high protection rating, it uses a DC motor gear reducer, built-in micro switch (and optional overheat protection) for automatic stop after stroke completion. Customizable stroke, easy installation and operation. It replaces traditional mechanical push-pull products (e.g., hydraulic, pneumatic), is eco-friendly, and widely used in backrest lifting for aircraft, ships, luxury car seats, as well as massage chairs, massage beds, fire-fighting equipment, medical devices, furniture, etc.

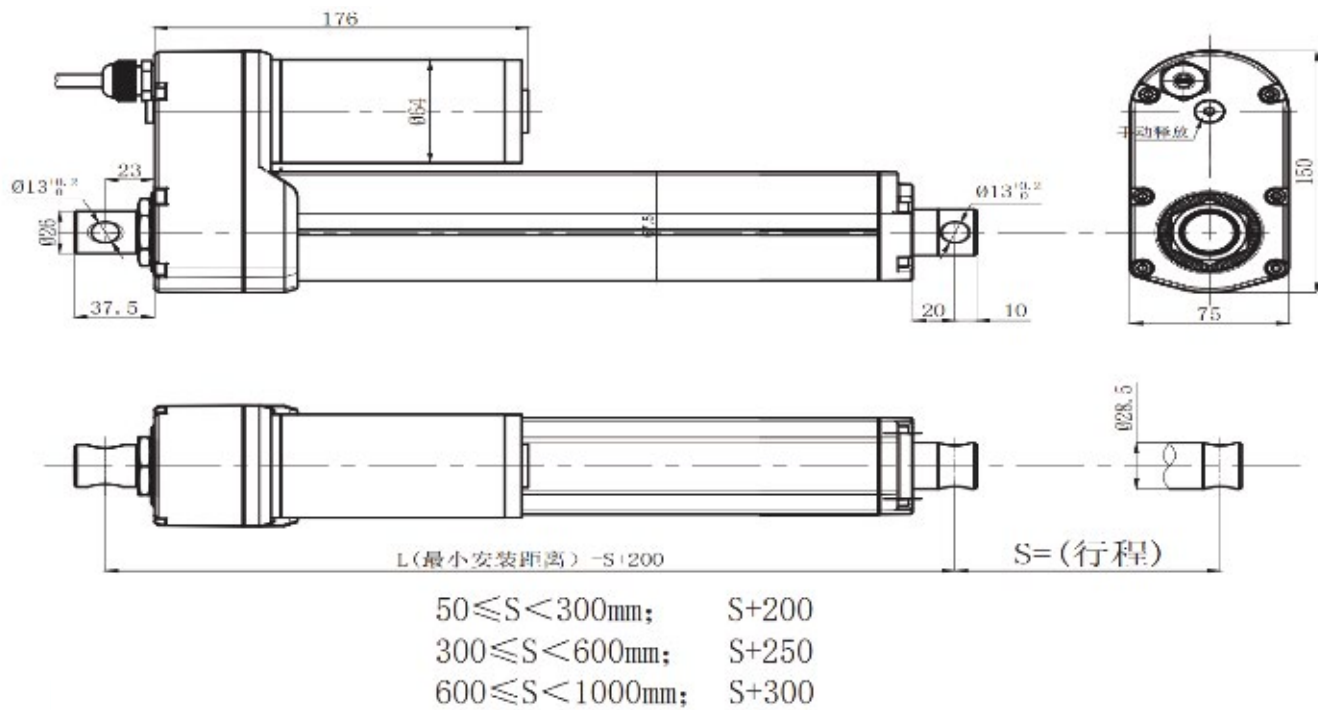
Mechanical Characteristics

- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Robust and durable
- Hall sensor can be added
- Powder metallurgy gears
- Magnetic switch can be added
- Potentiometer can be added

Force Data

- Max Thrust: 10000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 10000N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN - B2

Installation Dimensions

Stroke	Retracted Length	Extended Length
50mm	250mm	300mm
100mm	300mm	400mm
150mm	350mm	500mm
200mm	400mm	600mm
250mm	450mm	700mm
300mm	500mm	800mm

Stroke	Retracted Length	Extended Length
350mm	550mm	900mm
400mm	600mm	1000mm
450mm	650mm	1100mm
500mm	700mm	1200mm
550mm	750mm	1300mm
600mm	800mm	1400mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
5mm/s	7000N	7000N	7000N
6.5mm/s	6000N	6000N	6000N
9mm/s	5000N	5000N	5000N
11mm/s	4200N	4200N	4200N
16mm/s	3000N	3000N	3000N
25mm/s	2000N	2000N	2000N
39mm/s	1300N	1300N	1300N
50mm/s	1000N	1000N	1000N
80mm/s	600N	600N	600N
100mm/s	500N	500N	500N
160mm/s	300N	300N	300N

ZJWSN - C

Overview

Stainless steel construction, compact structure, high protection rating. It uses DC motor gear reduction, with built-in micro switch and optional overheat protection, enabling automatic stop after stroke completion. Customizable stroke, easy installation & operation. Replaces traditional mechanical push-pull products (e.g., hydraulic, pneumatic), eco-friendly. Widely used in backrest lifting for aircraft, ships, luxury car seats, plus massage chairs, beds, fire-fighting/medical equipment, furniture, etc.

Mechanical Characteristics

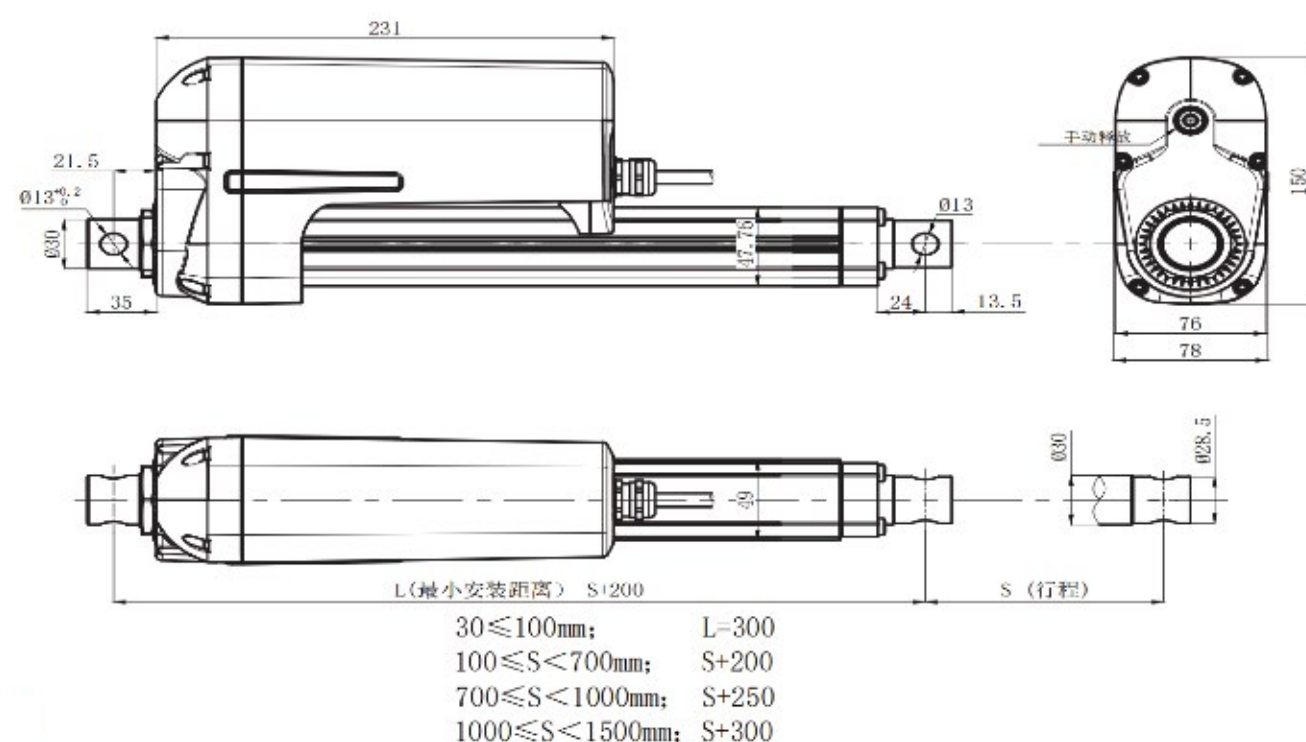
- Operating Temperature: -20~65°C
- Aluminum alloy housing and stainless steel telescopic tube
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Magnetic switch can be added
- Hall sensor can be added
- Robust and durable



Force Data

- Max Thrust: 1200N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 1200N
- Max Service Life: 50,000 operations

Product Drawings



ZJWSN - C

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	300mm	330mm
50mm	300mm	350mm
100mm	300mm	400mm
150mm	350mm	500mm
200mm	400mm	600mm
250mm	450mm	700mm
300mm	500mm	800mm
350mm	550mm	900mm

Stroke	Retracted Length	Extended Length
400mm	600mm	1000mm
450mm	650mm	1100mm
500mm	700mm	1200mm
550mm	750mm	1300mm
600mm	800mm	1400mm
700mm	950mm	1650mm
800mm	1050mm	1850mm
900mm	1150mm	2050mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
70mm/s	2000N	2000N	2000N
40mm/s	3000N	3000N	3000N
30mm/s	4500N	4500N	4500N
25mm/s	5000N	5000N	5000N
20mm/s	6500N	6500N	6500N
17mm/s	7500N	7500N	7500N
14mm/s	9000N	9000N	9000N
13mm/s	10000N	10000N	10000N
10mm/s	11000N	11000N	11000N
7mm/s	12000N	12000N	12000N

ZJWSN - BS

Overview

Aluminum alloy, compact and lightweight. Features DC motor gear reduction with built-in micro switch for automatic stop after stroke. Customizable stroke, easy to install and operate. Replaces traditional hydraulic/pneumatic push-pull products, eco-friendly. Widely used in backrest lifting for aircraft, ships, luxury car seats, plus massage chairs/beds, fire-fighting/medical equipment, furniture, etc.

Mechanical Characteristics

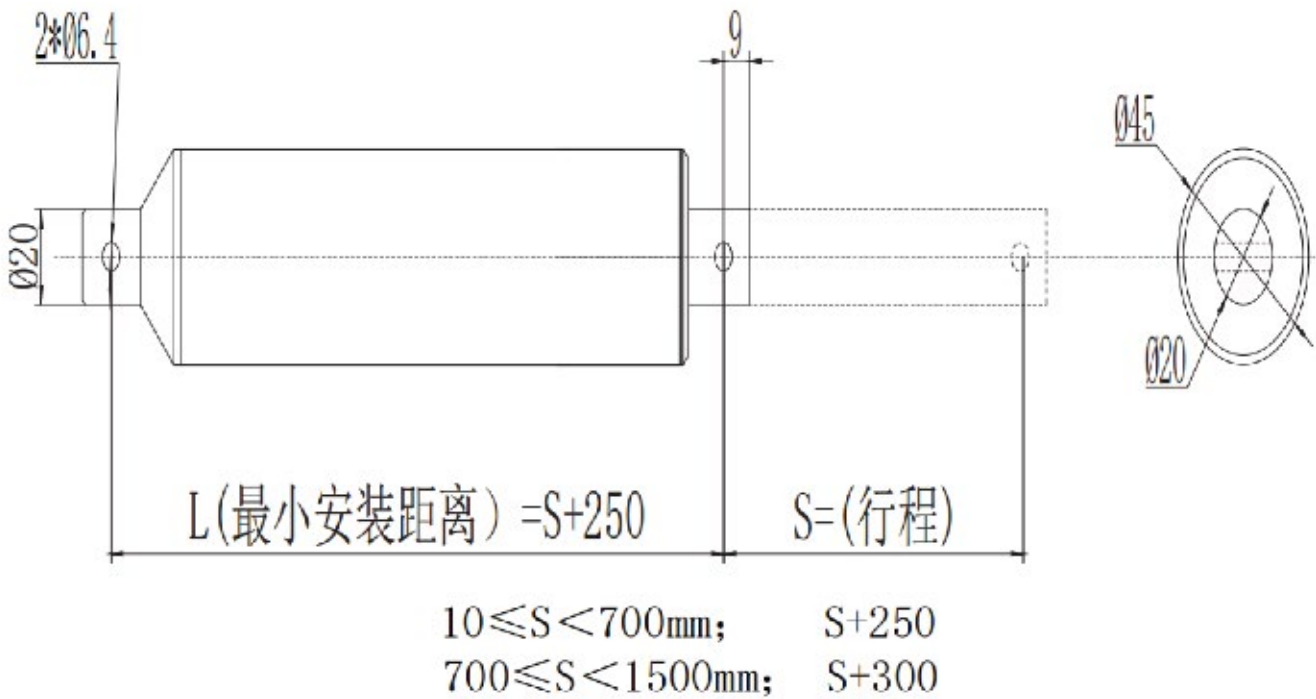
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Robust and durable
- Hall sensor can be added

Force Data

- Max Thrust: 2000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 2000N
- Max Service Life: 50,000 operations



Product Drawings



ZJWSN - BS

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	280mm	310mm
50mm	300mm	350mm
100mm	350mm	450mm
150mm	400mm	550mm
200mm	450mm	650mm
250mm	500mm	750mm
300mm	550mm	850mm
350mm	600mm	950mm

Stroke	Retracted Length	Extended Length
400mm	650mm	1050mm
450mm	700mm	1150mm
500mm	750mm	1250mm
550mm	800mm	1350mm
600mm	850mm	1450mm
700mm	1000mm	1700mm
800mm	1100mm	1900mm
900mm	1200mm	2100mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
150mm/s	10N	10N	10N
50mm/s	120N	120N	120N
30mm/s	300N	300N	300N
25mm/s	400N	400N	400N
20mm/s	500N	500N	500N
15mm/s	700N	700N	700N
10mm/s	1200N	1200N	1200N
7mm/s	1400N	1400N	1400N
5mm/s	1500N	1500N	1500N
3mm/s	2000N	2000N	2000N

ZJWSN-CBS

Overview

Stainless steel construction with compact structure, light weight, and DC motor (gear reduction). Built-in micro switch enables auto-stop after stroke completion. Customizable stroke, easy to install and operate. Replaces traditional hydraulic/pneumatic mechanical push-pull products, eco-friendly. Widely used for backrest lifting of airplane/ship/luxury car seats, plus massage chairs, massage beds, fire-fighting/medical equipment, furniture, etc.

Mechanical Characteristics

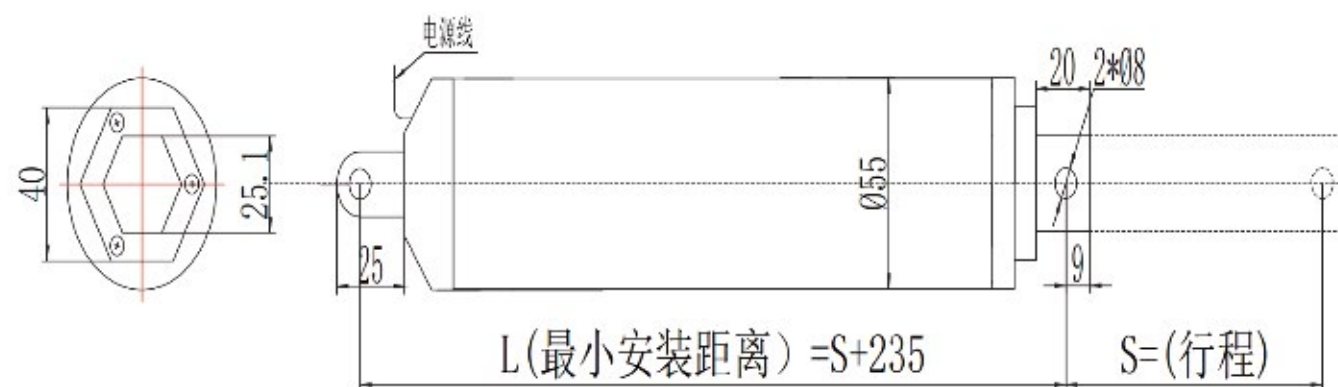
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP65
- Built-in micro switch
- Sturdy and durable
- High-speed linear actuator

Force Data

- Max Thrust: 200N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 200N
- Max Service Life: 50,000 operations



Product Drawings



$$10 \leq S < 1000\text{mm}; \quad S+235$$

$$1000 \leq S < 1500\text{mm}; \quad S+285$$

ZJWSN-CBS

Installation Dimensions

Stroke	Retracted Length	Extended Length
30mm	265mm	295mm
50mm	285mm	335mm
100mm	335mm	435mm
150mm	385mm	535mm
200mm	435mm	635mm
250mm	485mm	735mm
300mm	535mm	835mm
350mm	585mm	935mm

Stroke	Retracted Length	Extended Length
400mm	635mm	1035mm
450mm	685mm	1135mm
500mm	735mm	1235mm
550mm	785mm	1335mm
600mm	835mm	1435mm
700mm	935mm	1635mm
800mm	1035mm	1835mm
900mm	1135mm	2035mm

*Stroke and installation dimensions can be customized.

Speed and Torque

Speed	Torque	Thrust Force	Pull Force
230mm/s	50N	50N	50N
140mm/s	100N	100N	100N
80mm/s	150N	150N	150N
45mm/s	200N	200N	200N

ZJWSN-LZ

Overview

Aluminum alloy construction, with compact structure, low noise, smooth telescoping, elegant appearance and regular size for easy installation. Combined with a controller, it is widely applicable to lifting platforms, high-end furniture tatamis and medical equipment. This lifting column, featuring a built-in motor, saves space, effectively reduces noise, has a wider application range, and is our company's latest product.

Mechanical Characteristics

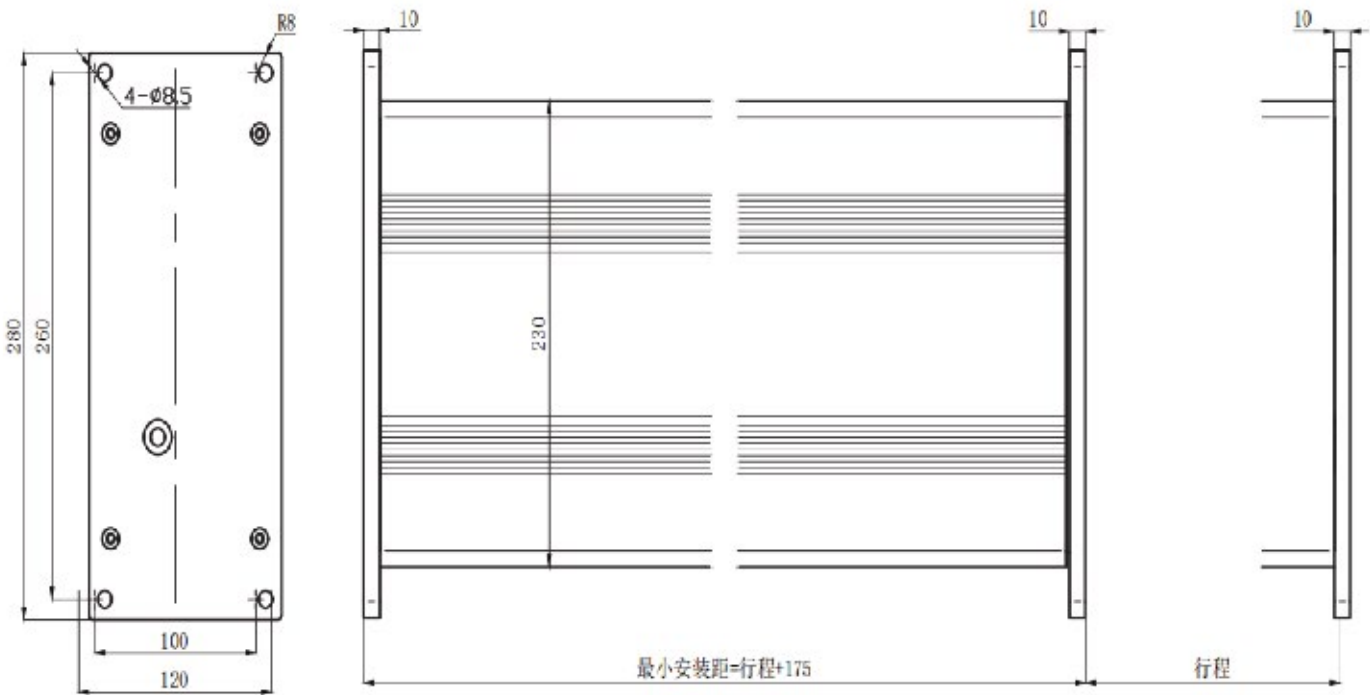
- Operating Temperature: -20~65°C
- Aluminum alloy housing & telescopic tube (stainless steel telescopic tube optional)
- Operating Voltage: DC 12V, 24V, 36V, 48V
- Protection Class: IP54
- Built-in micro switch
- Nylon plastic gear
- Hall sensor can be added
- Low noise, below 50dB
- Sturdy and durable

Force Data

- Max Thrust: 4000N
- Operating Frequency: 20% (10% for high-speed operation)
- Max Self-locking Force: 4000N
- Max Service Life: 50,000 operations



Product Drawings



ZJWSN-LZ

Installation Dimensions

Stroke	Retracted Length	Extended Length
50mm	225mm	275mm
100mm	275mm	375mm
150mm	325mm	475mm
200mm	375mm	575mm
250mm	425mm	675mm
300mm	475mm	775mm

Stroke	Retracted Length	Extended Length
350mm	525mm	875mm
400mm	600mm	1000mm
450mm	650mm	1100mm
500mm	700mm	1200mm
550mm	750mm	1300mm
600mm	850mm	1450mm

*Stroke and installation dimensions can be customized.

Speed and Torque

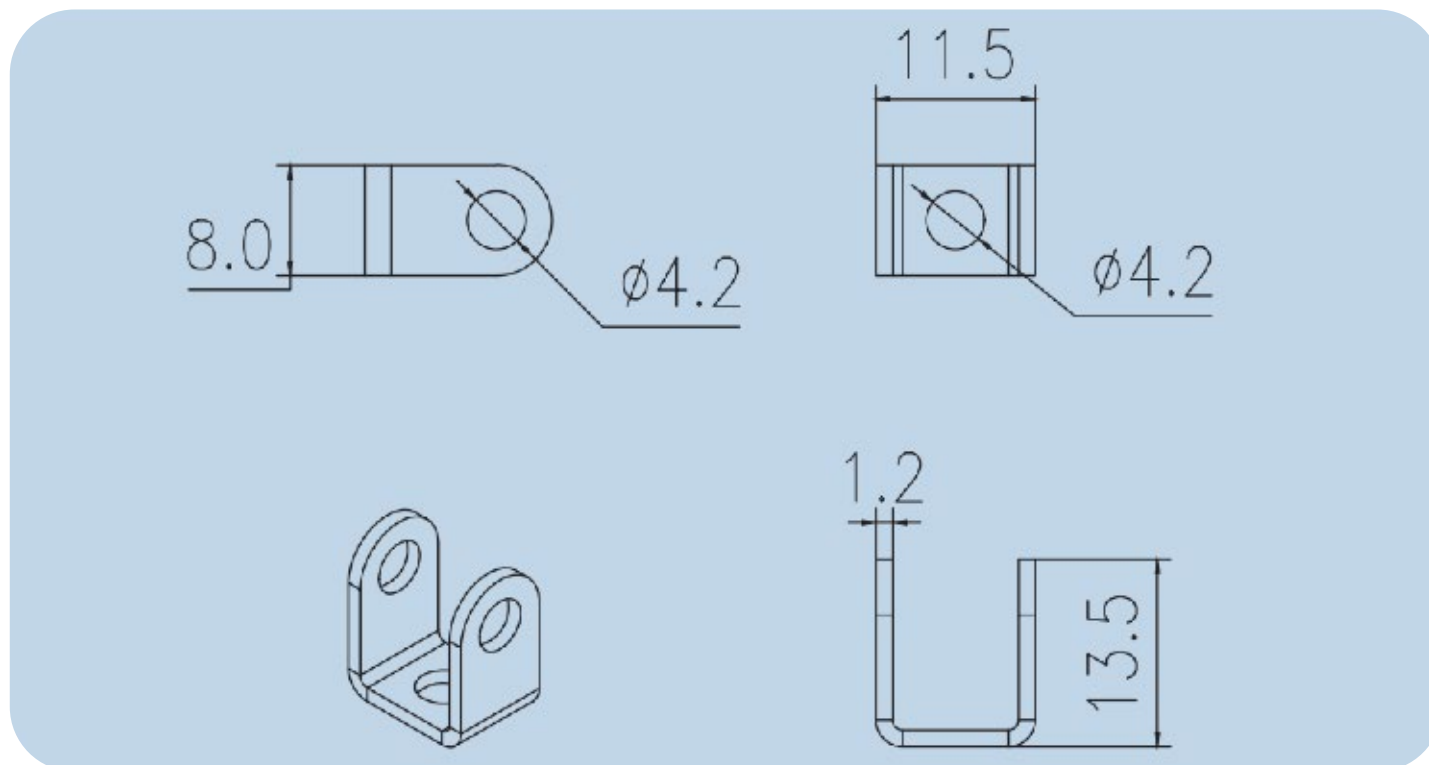
Speed	Torque	Thrust Force	Pull Force
15mm/s	1500N	150KG	150KG
8mm/s	3000N	300KG	300KG
5mm/s	4000N	400KG	400KG

ZJWSN-ZJ-MN(4mm bolt)

Model Description

A3 material, stamping product with electroplated surface, 2mm thick, capable of withstanding 15KG tension or pressure. Equipped with 6mm diameter pin shaft and split pin as standard. It can simplify the actuator installation method from hole mounting to plane mounting, and is compatible with models such as MN1 and MN2.

Product Drawings



Product and Application Pictures

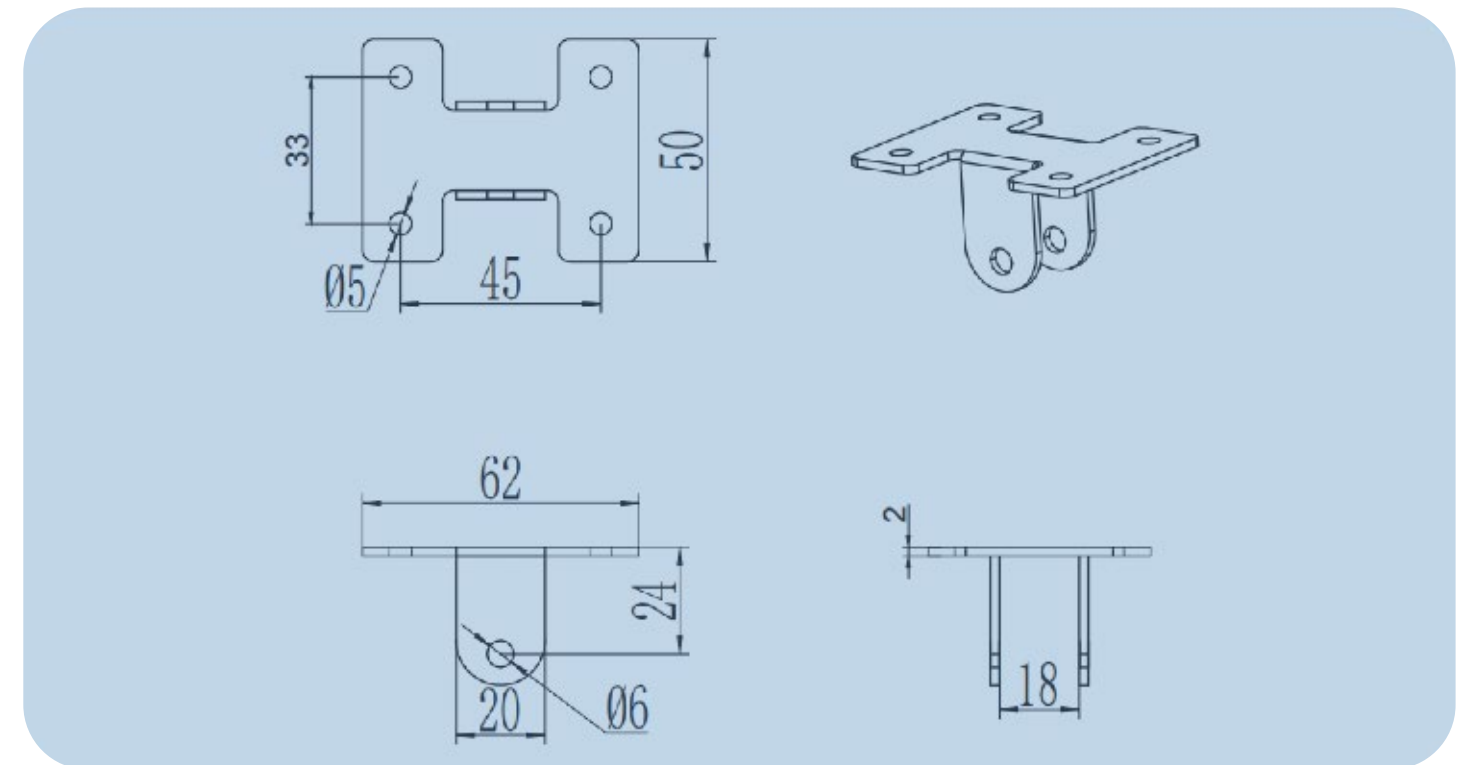


ZJWSN-ZJ-FX(6mm bolt)

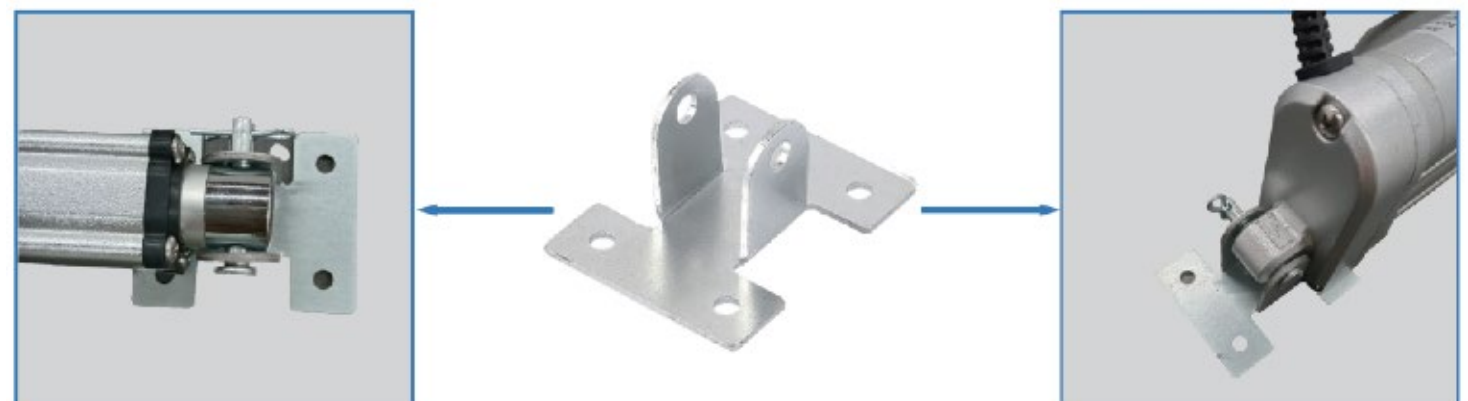
Model Description

A3 material, stamping product with electroplated surface, 2mm thick, capable of withstanding 200KG tension or pressure. It comes standard with a 6mm-diameter pin shaft and a cotter pin. This product can simplify the actuator installation method—changing from hole mounting to flat mounting—and is compatible with models such as BST-YF, BZ, WS, JY, FS, and BS.

Product Drawings



Product and Application Pictures

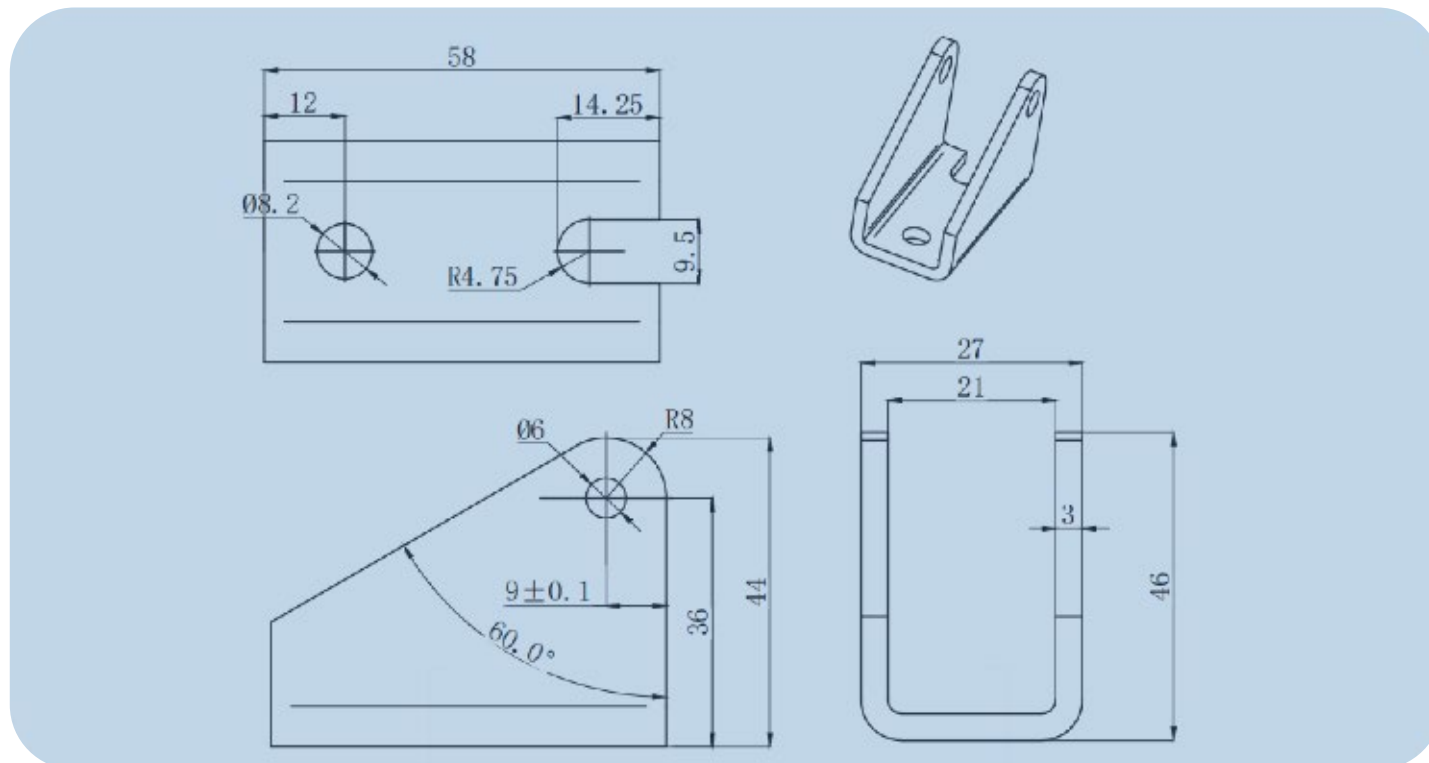


ZJWSN-ZJ-SJ(6mm bolt)

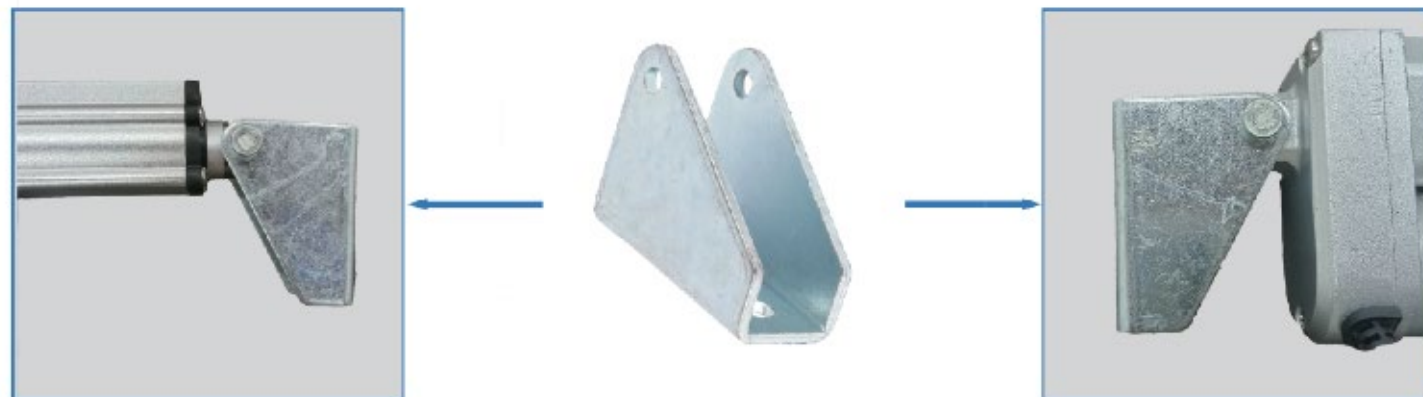
Model Description

A3 material, stamping product with powder-coated surface, 3mm thick, capable of withstanding 250KG tension or pressure. It comes standard with a 6mm-diameter pin shaft and a cotter pin. This product can simplify the electric linear actuator installation method—changing from hole mounting to flat mounting—and is compatible with models such as BST-YF, A1, BZ, WS, JY, FS, and BS.

Product Drawings



Product and Application Pictures

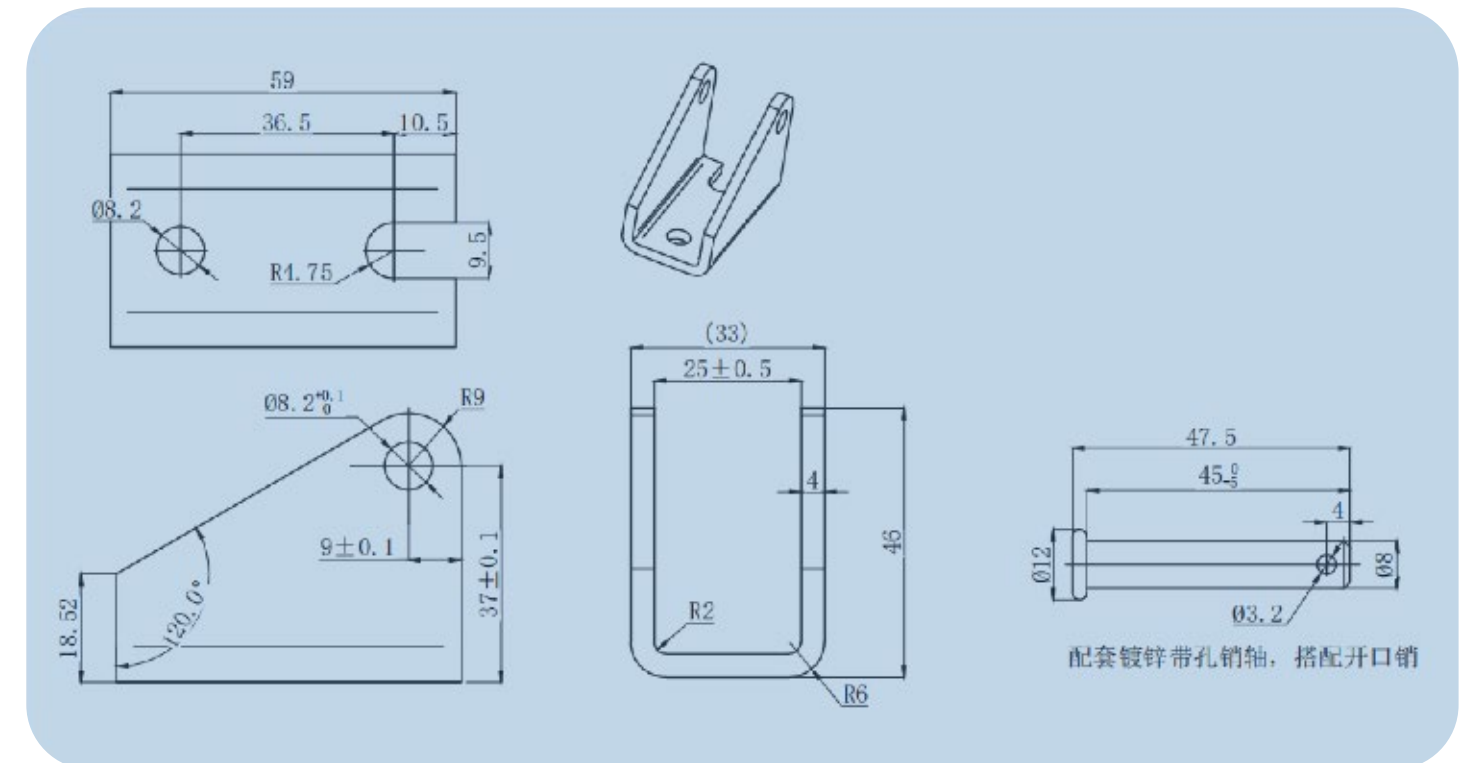


ZJWSN-ZJ-SJ1(8mm bolt)

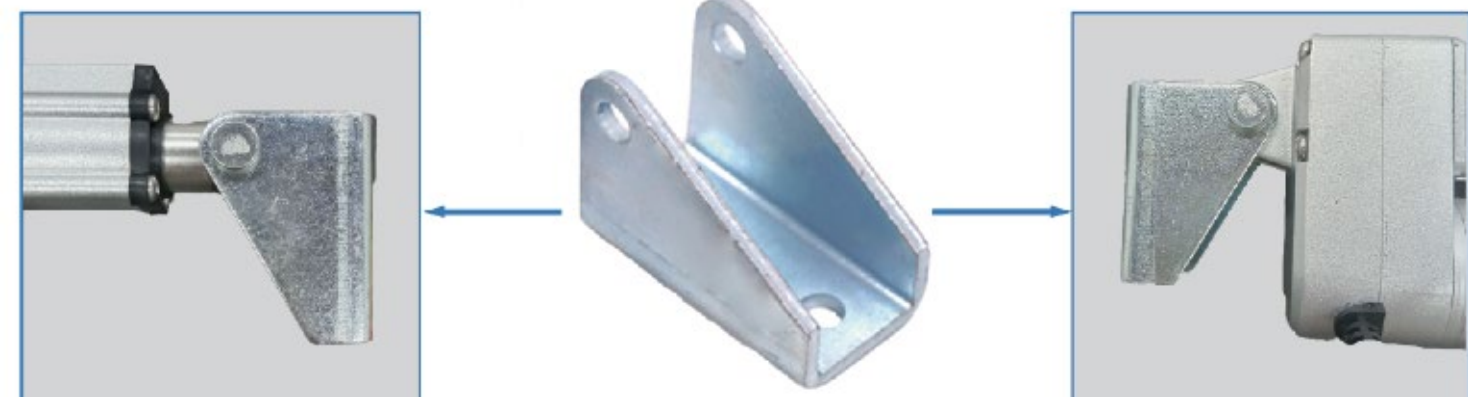
Model Description

A3 material, stamping product with powder-coated surface, 3mm thick (note: "3M" is corrected to "3mm" according to common mechanical dimension units; adjust if the actual unit differs). It can withstand 250KG tension or pressure, and comes standard with a 9.5mm-diameter pin shaft and a cotter pin. This product simplifies the electric linear actuator installation method—changing from hole mounting to flat mounting—and is compatible with models including BZ1, A, A2, JF, JY1, JY2, and CBS.

Product Drawings



Product and Application Pictures



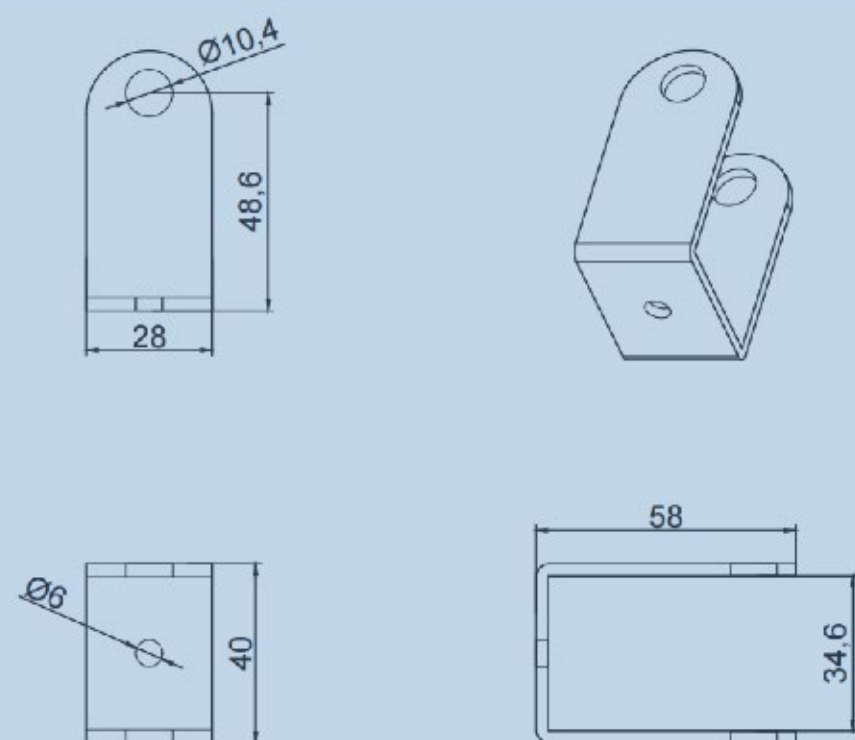
ZJWSN-ZJ-U(10mm bolt)

Model Description

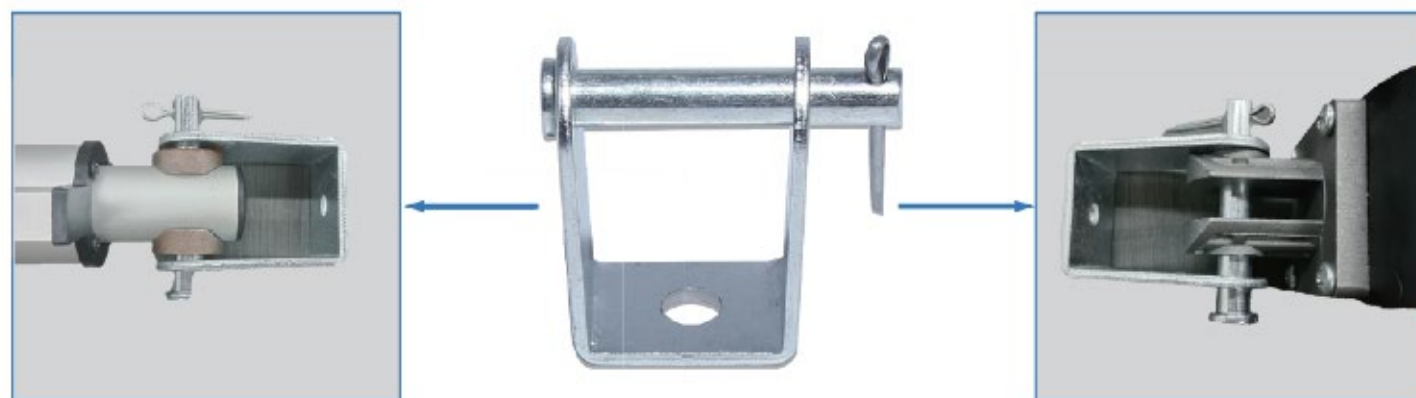
Hot-rolled steel plate material, stamping product with powder-coated surface, 2.7mm thick, capable of withstanding 600KG tension or pressure. It comes standard with a 9.5mm-diameter pin shaft and a cotter pin.

This product simplifies the electric linear actuator installation method—changing from hole mounting to flat mounting—and is compatible with models such as L and L1.

Product Drawings



Product and Application Pictures

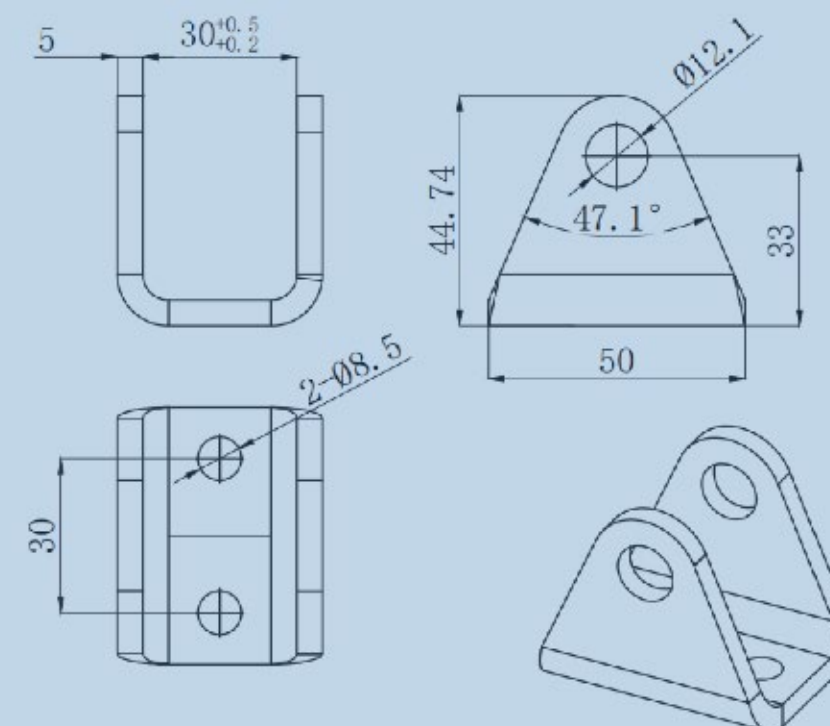


ZJWSN-ZJ-BSJ1(12mm bolt)

Model Description

A3 material, stamping product with electroplated surface, 5mm thick (note: "5M" is corrected to "5mm" per common mechanical dimension standards; adjust if the actual unit differs). It can withstand 1000KG tension or pressure, and comes standard with a 12mm-diameter pin shaft and a cotter pin. It is compatible with L1, B, B1 telescopic tubes and tail pulls, and is cost-effective.

Product Drawings



Product and Application Pictures

