

INDUSTRIAL AUTOMATION SOLUTIONS

## INDUSTRIAL USE

Professional Solutions for Automation Industrial Applications

I. Linear actuator

II..Servo motor cylinder

III. Electric lifting column

IV. Handset control

V.Control box

VI. Product accessories

POWER OF RICHMAT

Qingdao Richmat Intelligence Technology Inc.

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Shandong, China



WEB



WEICHAT



Learn about RiCHMAT  
in 1 minute

18 years of rapid  
development Industry  
first-class manufacturers



#### 2020 Globalization

Established Hebei,  
Guangzhou, Korea and U.S. branches,  
become a multinational corporation.



#### 2017 Base

2016-2018, built up  
the 2nd, 3rd and 4th production base.  
All Linear actuator, controller and plastic  
injection are self-developed.



#### 2015 Growing up

Recognized by European and U.S.  
market.



#### 2013 Medical Care

Gain reputation in medical care area.



#### 2008 Certificate

Certified by IOS9001.



#### 2003 Establishment

Company founded and started  
with dual actuator.

## Richmat® Provide you more intelligent, convenient and comfortable product series.

Whenever and wherever you choose Richmat  
as your exclusive partner, we will ensure to bring  
you a comfortable and extreme product experience.

We focus on providing unique and competitive  
products for every cooperative customer with  
satisfactory after-sales service.

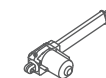
## Qingdao Richmat Intelligence Technology Inc.



Richmat is a professional actuators and controllers producing company integrated the  
development, production and marketing. Headquartering in Qingdao, China.



Richmat is dedicated to smart home, medical care, smart office and industrial transmission area  
and had been awarded dozens of patents, Richmat products are sold all over the world with the  
highest quality and reputation.



Richmat has devoted to the design, development, and manufacture of actuators, the main  
products include: linear and dual actuators, hand controls, controllers and corresponding  
accessories, to meet your needs.



ISO9001



CE

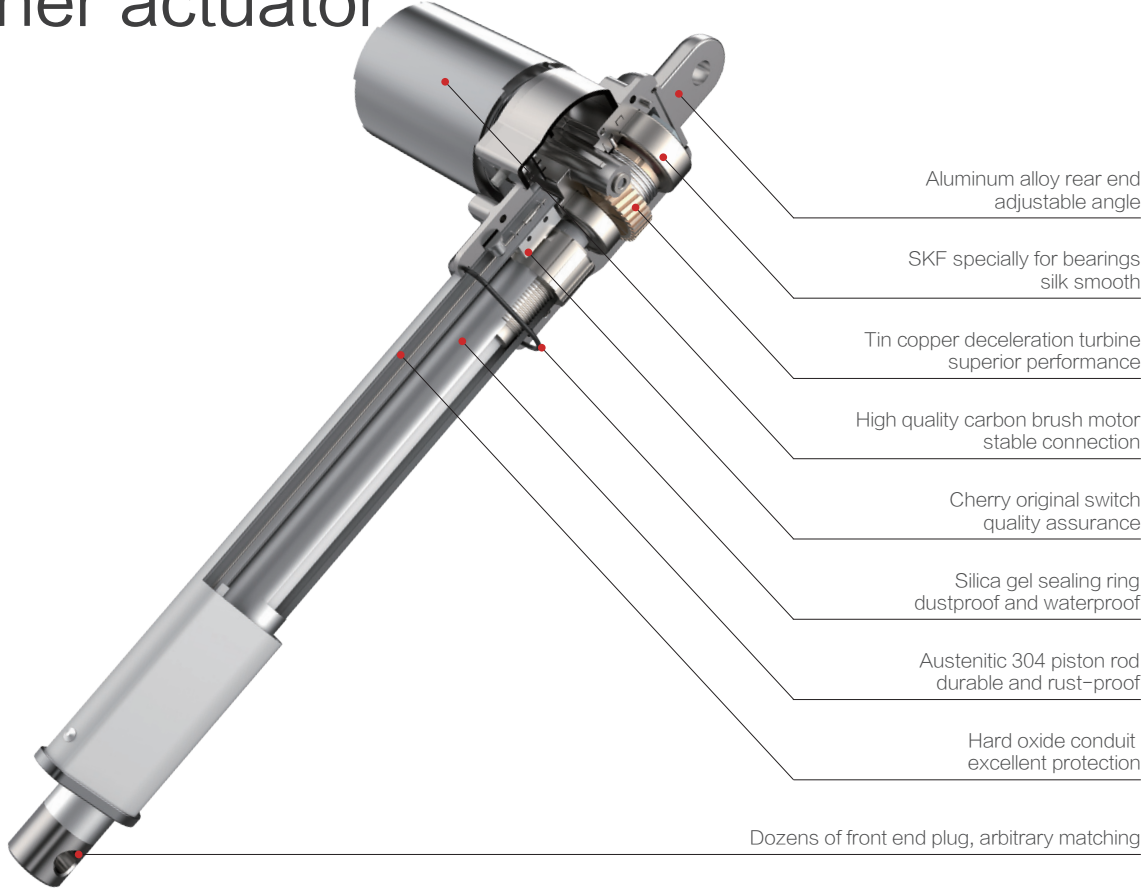
IEC60601-1



## Trust RiCHMAT



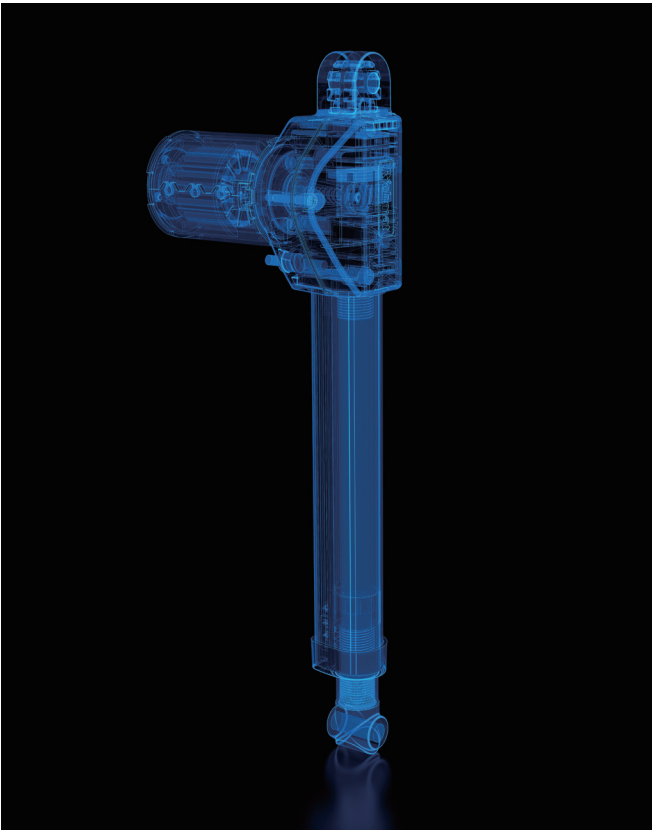
RICHMAT, define **INDUSTRIAL** again  
liner actuator



RICHMAT Industrial transmission technology characteristics

Strong scientific research strength, obtained a number of patents

- All systems applicable
- R-Control
- Noise control
- Level 6 power consumption
- Low current high efficiency mode
- R-Port maingtch
- LOT+
- Eclusive RF protocol
- Long-term life
- Customization service



**1:1** working system

challenging industry standards

We have improved the working system of the linear actuator from 2:18 working system under full load to a higher working system of 1:1, and optimized the working efficiency with less current passing through when working. This means that the motor can be adapted to more demanding working conditions and has a longer service life.



Application Scenario of Linear Actuator (Part)

Extensive application and rich configuration



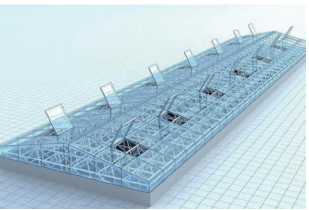
Industrial automation

Suitable for factory automation line solutions



Agricultural machinery

Suitable for agricultural related machinery solutions



Environmental control

Ventilation lighting solution for all kinds of places



Clean energy

Suitable for solar energy, wind energy, water energy solutions



Special machinery

Suitable for special vehicles solutions



Entertainment facilities

Suitable for VR racing and other entertainment facilities solutions



## Electric ventilation system

Controlling wind and smoke exhaust, intelligent fire fighting

RICHMAT's independent research and development of electric surge air system, with reliability and convenience of departure. When the system detects a fire, the Windows can be automatically forced to open to evacuate smoke and harmful gases, so as to ensure the safety of indoor personnel. At present, more and more buildings, factories and crowded public places are using automatic ventilation systems.

### Suitable for various environments



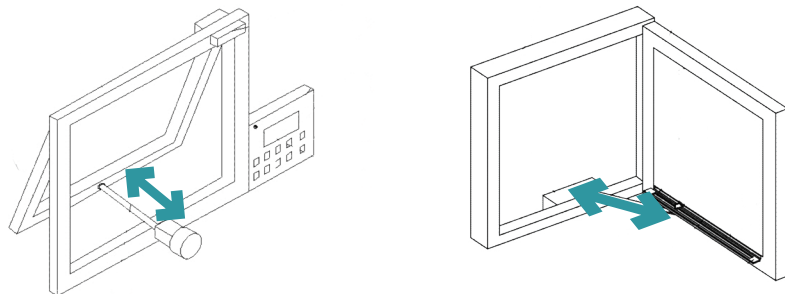
### How to work

#### Open and Close

Use the handset control LV1 the work of single actuator to achieve the window's open and close. Keep pressing button to control the window open or close to maximum.

#### Release and stop

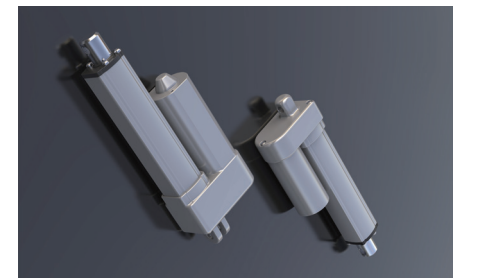
Release the button when the window move to the suitable position, the motor will stop immediately and keep current stroke without movement.



### Applicable to all kinds of motors under extreme working conditions

We have carefully selected the most representative products for you to display in this manual, however, this is not a complete display of our company's products. For more information, please consult the Sales Manager.

The products in this manual are for reference only. Please refer to the actual product.



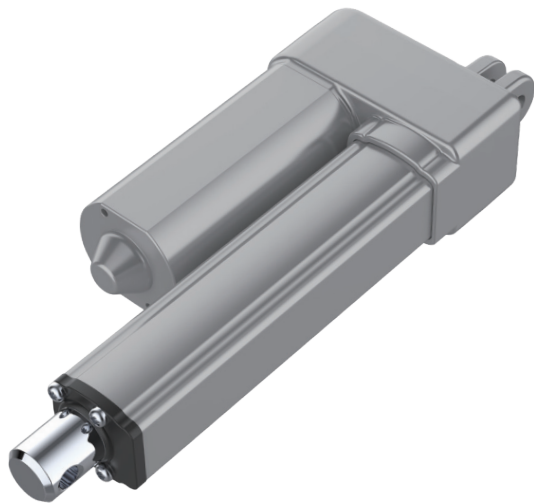


# A71

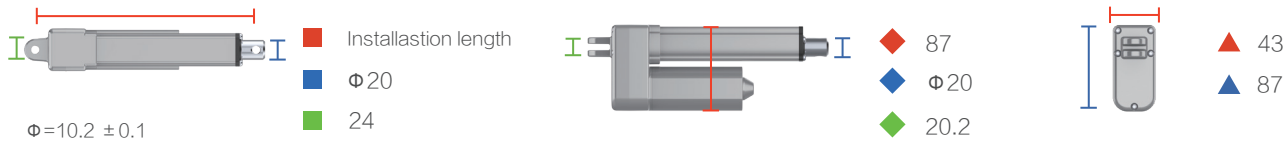
SERIES

Standard parameters

Max. load	Push force 2500N, Pull force 2500N
No-load speed	3 – 20 mm / s
Installation dimension	Stroke + 120 mm
Protection level	Max. IP66
Noise level	≤50dB
Other options	Hall sensor



Dimension ( mm )



Speed and force ( 3800rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
2500	2500	2500	0.5	2.0	5.0	3.8	2	2
2500	2000	2000	0.7	2.3	6.4	4.9	3	2
1000	1000	1000	1.0	2.6	12.2	9.0	6	2

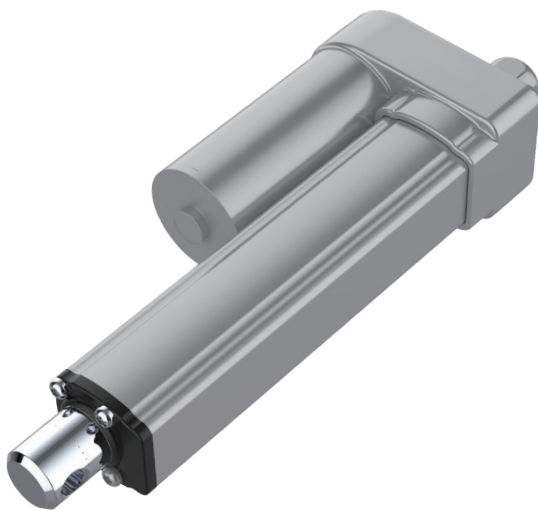
Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A72

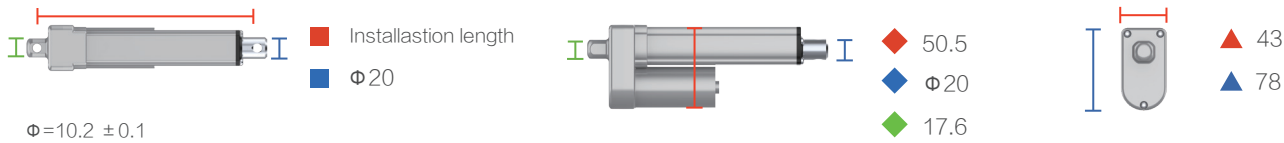
SERIES

Standard parameters

Max. load	Push force1400N, Pull force 1400N
No-load speed	5 – 90 mm / s
Installation dimension	Stroke + 110 mm
Protection level	Max. IP66
Noise level	≤65dB



Dimension ( mm )



Speed and force ( 6000rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Reduction ratio	Lead
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
1400	1400	1400	0.3	1.4	5.0	4.0	1: 40	2
1200	1200	1200	0.4	1.6	7.5	6.0	1: 40	3
1000	1000	1000	0.6	2.0	9.0	7.0	1: 20	2
700	700	700	0.5	2.1	14	10	1: 20	3
500	500	500	0.9	2.5	18	12	1: 10	2
300	300	300	0.9	2.0	27	20	1: 10	3
200	200	200	1.1	2.4	32	24	1: 5	2
100	100	100	1.1	1.5	90	70	1: 5	6

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A301S

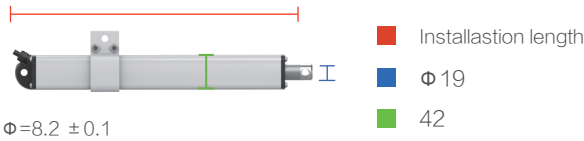
SERIES

Standard parameters

Max. load	Push force800N, Pull force 800N
No-load speed	9.5 mm / s
Installation dimension	Stroke + 220 mm
Protection level	Max. IP66
Noise level	≤70dB



Dimension ( mm )



Speed and force ( 200rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
800	800	3000	0.2	2.0	9.5	7.0	3	1

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A501

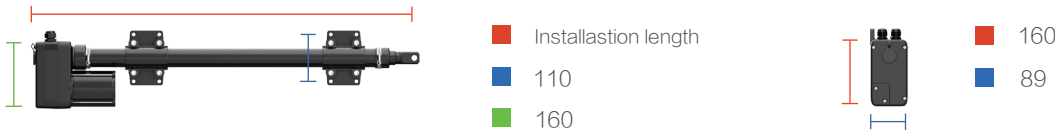
SERIES

Standard parameters

Max. load	Push force5000N, Pull force 5000N
No-load speed	4.7 mm / s
Installation dimension	Stroke + 295 mm
Protection level	Max. IP66
Noise level	≤65dB
Protection device	Built-in 125°C temperature control
Other options	Built-in potentiometer



Dimension ( mm )



Speed and force ( 1400rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
5000	5000	5000	0.5	0.9	4.7	4.2	4.2	1

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.



# A12G

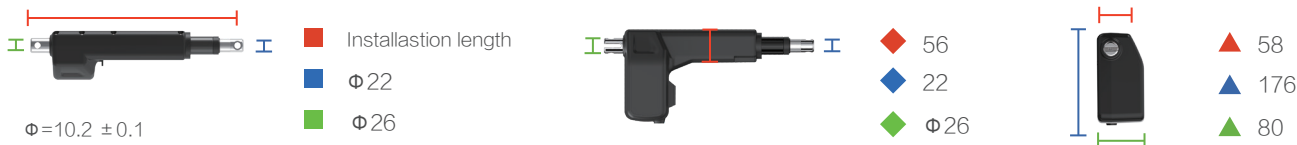
SERIES

Standard parameters

Max. load	Push force6000N, Pull force 4000N
No-load speed	4 – 24 mm / s
Installation dimension	Stroke + 177 mm
Protection level	Max. IP54
Noise level	≤50dB
Other options	Reed pipe; Hall sensor



Dimension ( mm )



Speed and force ( 3100rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
6000	4000	6000	0.5	2.4	5.2	4.2	3	1
4000	2000	4000	0.5	3.0	8.3	6.5	5	2
2000	1000	2000	0.5	4.0	12	9.0	7.5	3

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A31

SERIES

Standard parameters

Max. load	Push force10000N, Pull force 4000N
No-load speed	3 – 40 mm / s
Installation dimension	Stroke + 220 mm
Protection level	Max. IP54
Noise level	≤50dB
Other options	Mechanical hand-protection function; Hall sensor



Dimension ( mm )



Speed and force ( 3800rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
10000	4000	10000	1.0	8.0	6.8	4.5	4	1
6000	3000	6000	1.2	5.0	11.0	9.0	4	2
2000	2000	2000	0.8	4.5	22.0	18.0	8	2
1000	1000	1000	0.9	6.1	35.0	27.0	12	2

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A36

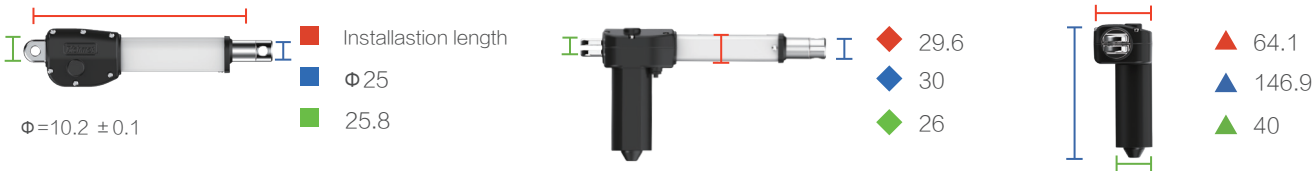
SERIES

Standard parameters

Max. load	Push force3000N, Pull force 2000N
No-load speed	6 – 50 mm / s
Installation dimension	Stroke + 140 mm
Protection level	Max. IP20
Noise level	≤50dB
Other options	Mechanical hand-protection function; Hall sensor



Dimension ( mm )



Speed and force ( 2600rpm )

Load ( N )			Current ( N )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
3000	2000	2800	0.8	4.7	16	11	3	2
1600	1000	1600	0.8	3.6	19.4	12	4	2

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A37

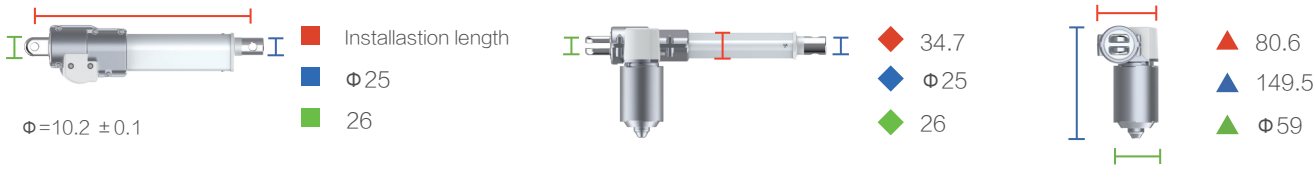
SERIES

Standard parameters

Max. load	Push force8000N, Pull force 4000N
No-load speed	4 – 46 mm / s
Installation dimension	Stroke + 175 mm
Protection level	Max. IP54
Noise level	≤50dB
Other options	Mechanical hand-protection function; Hall sensor



Dimension ( mm )



Speed and force ( 2600rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
8000	4000	6000	0.4	4.2	4.3	3.6	3	1
6000	4000	6000	0.3	3.9	5.8	4	4	1
4000	2000	2400	0.4	1.9	8.2	7.3	6	1
2000	1000	800	0.4	1.5	15.7	14.3	6	2
1000	1000	400	0.4	1.2	30.2	27.3	12	2

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.



# A51

SERIES

Standard parameters  
Max torque      10 Nm  
No load speed    85 rpm



Dimension ( mm )



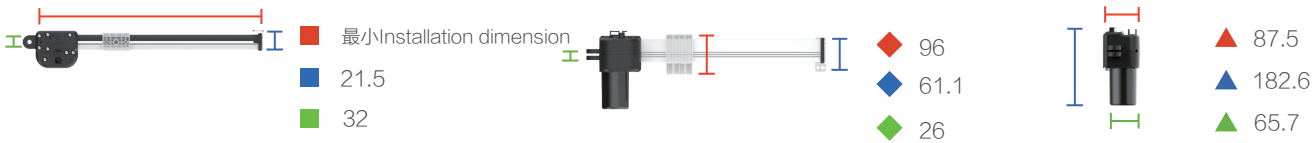
# A53

SERIES

Standard parameters  
Max. load              Push force4000N, Pull force 2000N  
No-load speed      4 – 46 mm / s



Dimension ( mm )



Speed and force ( 2600rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
4000	2000	3200	0.5	3.0	5.7	5.4	3	1
3500	2000	3200	0.6	3.7	11.9	9.7	3	2
2000	1000	800	0.7	2.1	22.9	21.5	6	2
1000	1000	400	0.7	1.7	32.8	32	9	2
500	300	300	1.0	2.2	42.7	41	12	2

Remark： The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A58

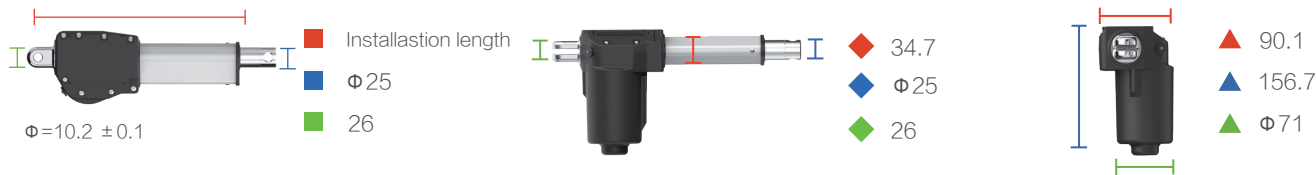
SERIES

Standard parameters

Max. load	Push force8000N, Pull force 4000N
No-load speed	4 – 46 mm / s
Installation dimension	Stroke + 175 mm
Protection level	Max. IP66
Noise level	≤50dB
Other options	Mechanical hand-protection function; Hall sensor



Dimension ( mm )



Speed and force ( 2600rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
8000	4000	6000	0.4	4.2	4.3	3.6	3	1
6000	4000	6000	0.3	3.9	5.8	4	4	1
4000	2000	2400	0.4	1.9	8.2	7.3	6	1
2000	1000	800	0.4	1.5	15.7	14.3	6	2
1000	1000	400	0.4	1.2	30.2	27.3	12	2

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A63

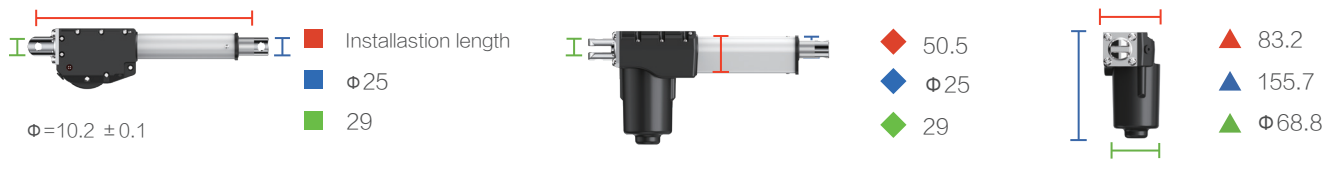
SERIES

Standard parameters

Max. load	Push force6000N, Pull force 4000N
No-load speed	4 – 30 mm / s
Installation dimension	Stroke + 180 mm
Protection level	Max. IP54
Noise level	≤50dB
Other options	Mechanical hand-protection function ; Hall sensor ; Reed pipe



Dimension ( mm )



Speed and force ( 3600rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
6000	4000	6000	0.4	2.5	5.5	4.8	3	1
4000	3000	6000	0.4	4.3	7.7	5.9	4	1
3000	2000	3000	0.4	3.1	10.5	9.4	6	1
1000	500	400	0.4	0.9	15.7	14.6	9	1
500	300	400	0.4	1.2	21.5	19	12	1

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.



# A8

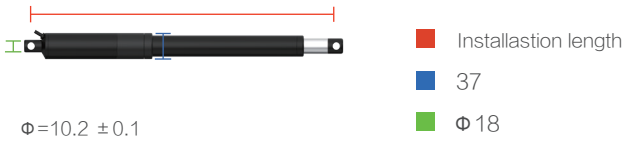
SERIES

Standard parameters

Max. load	Push force1000N, Pull force 500N
No-load speed	5.2 – 10.4 mm / s
Installation dimension	Stroke + 205 mm
Protection level	Max. IP54
Noise level	≤65dB



Dimension ( mm )



Speed and force ( 190rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
500	500	500	0.2	1.0	9.5	8.0	3.0	1
1000	1000	1000	0.1	1.0	6.3	5.0	2.0	1

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# A83

SERIES

Standard parameters

Max. load	Push force400N, Pull force 200N
No-load speed	40 – 50 mm / s
Installation dimension	Stroke + 205 mm
Protection level	Max. IP66
Noise level	≤50dB



Dimension ( mm )



Speed and force ( 2000rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
300	300		0.7	2.0	37	17.5	1.0	1
400	400		0.7	2.5	27	13.5	0.8	1

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# AT1

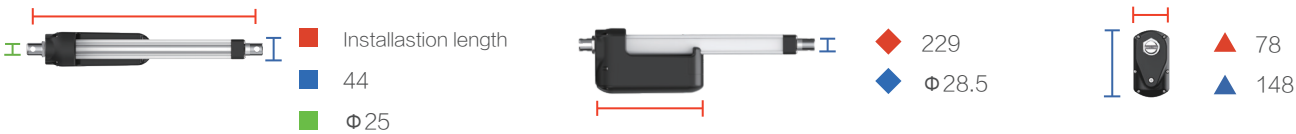
SERIES

Standard parameters

Max. load	Push force10000N, Pull force 10000N
No-load speed	6.5 – 60 mm / s
Installation dimension	Stroke + 200 mm
Protection level	Max. IP66
Noise level	≤70dB
Other options	Hall sensor; Potentiometer Mechanical sliding clutch, Mechanical limit



Dimension ( mm )



Speed and force ( rotate speed 4000rpm )

Rated load ( N )			Speed ( mm / s )		No load current ( A )		Full load current ( A )	
Push force	Self-locking force	Gear ratio	No load	Full load	12V	24V	12V	24V
10000	12000	40:1	13	7.0	4.0	2.4	20.0	10.5
7500	9000	20:1	13	9.0	4.0	2.4	20.0	10.5
7000	8000	30:1	17	9.5	4.0	2.4	20.0	10.5
6500	8000	40:1	20	11	4.0	2.4	20.0	10.5
3200	4000	20:1	38	24	4.0	2.4	20.0	10.5
1500	2000	20:1	55	42	4.0	2.4	20.0	10.5

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# AT2

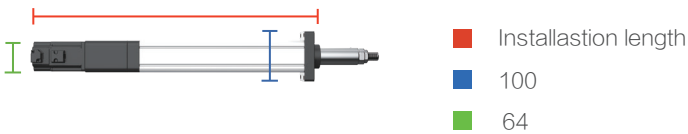
SERIES

Standard parameters

Max. load	Push force4000N, Pull force 4000N
No-load speed	0 – 500 mm / s
Installation dimension	Stroke + 259 mm
Max stroke	800 mm
Resetting	± 0.01 mm
Protection level	Max. IP65
Noise level	≤60dB



Dimension ( mm )



Performance parameters

Rated load ( N )	Rated speed ( mm / s )	Power ( KW )	Rated rotating speed RPM	Torque ( N*M )	Reduction ratio	Screw lead
1300	250	0.4	3000	1.27	1	5
680	500	0.4	3000	1.27	1	10

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

Servo electric cylinder

# AT3

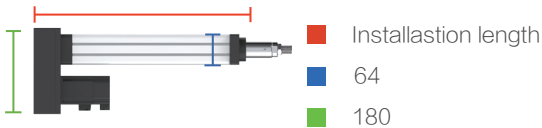
SERIES

Standard parameters

Max. load	Push force4000N, Pull force 4000N
No-load speed	0 – 500 mm / s
Installation dimension	Stroke + 110 mm
Protection level	Max. IP66
Max stroke	800 mm
Resetting	± 0.01 mm
Noise level	≤60dB



Dimension ( mm )



Performance parameters

Rated load ( N )	Rated speed ( mm / s )	Power ( KW )	Rated rotating speed RPM	Torque ( N*M )	Reduction ratio	Screw lead
1300	250	0.4	3000	1.27	1	5
2700	125	0.4	3000	1.27	2	5
680	500	0.4	3000	1.27	1	10

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

# AT5

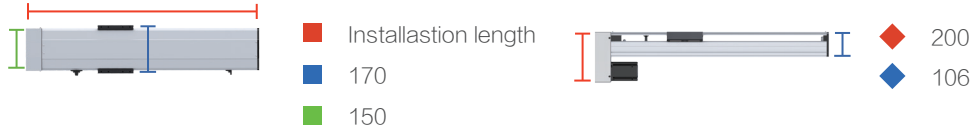
SERIES

Standard parameters

Max. load	Push force1000N, Pull force 1000N
No-load speed	0 – 1000 mm / s
Installation dimension	Stroke + 310 mm
Max stroke	1500 mm
Resetting	± 0.01 mm
Noise level	≤65dB



Dimension ( mm )



Performance parameters

Max load ( N )	Rated speed ( mm / s )	Power ( KW )	Rated rotating speed RPM	Torque ( N*M )	Reduction ratio	Reduction ratio Linear guideway
Horizontal X	Wall Y	vertical Z				
1000	800	450	250	0.75	3000	2.38 5 Dual rail
800	550	320	500	0.75	3000	2.38 10 Dual rail
800	500	240	1000	0.75	3000	2.38 20 Dual rail

Remark: The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.



# L6C

## SERIES

Standard parameters

Max. load	Push force 800N
Max stroke	650 mm
Max height	1210 mm
No-load speed	32 mm / s
Installation dimension	560 mm



Dimension ( mm )



Speed and force ( 3600rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
800		600	2.4	5.3	32	30	20	4+5

Remark： The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.

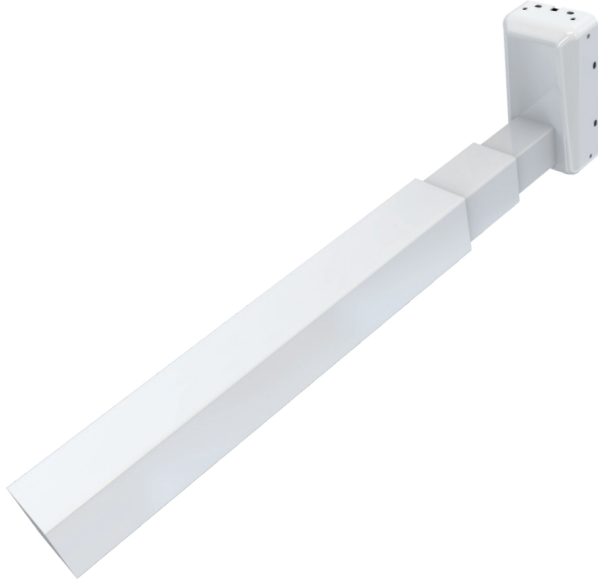
Column series

# L6S

## SERIES

Standard parameters

Max. load	Push force 800N
Max stroke	650 mm
Max height	1210 mm
No-load speed	32 mm / s
Installation dimension	560 mm



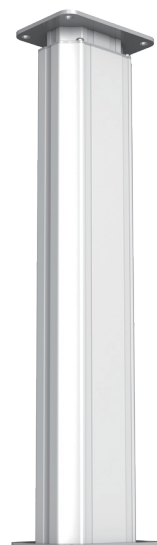
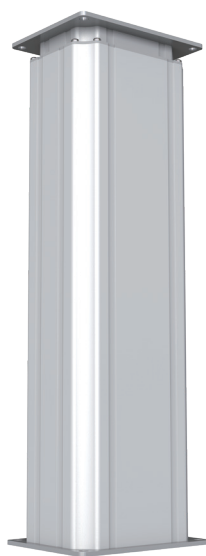
Dimension ( mm )



Speed and force ( 3600rpm )

Load ( N )			Current ( A )		Speed ( mm/ s )		Lead	Number of threads of worm
Push force	Pull force	Self-locking force	No load	Load	No load	Load		
800		600	2.4	5.3	32	30	20	4+5

Remark： The data is tested by RICHMAT control box and regulated power supply, and the test data is different when using other configurations.



## L1

Max. load  
No-load speed  
Installation dimension  
Static torque  
Noise level  
Noise level  
Other options

Push force4000N  
5 – 30 mm / s  
Stroke+200 mm  
Lateral250Nm Max.  
Lateral500Nm Max.  
≤50dB  
Hall sensor

## L2

Max. load  
No-load speed  
Installation dimension  
Noise level  
Other options

Push force2000N  
6 – 20 mm / s  
Stroke+200 mm  
≤50dB  
Hall sensor

## L4

Max. load  
No-load speed  
Stroke dimension  
Installation dimension  
Static torque  
Noise level  
Noise level  
Other options

Push force2000N  
18 mm / s  
200 – 400 mm  
 $\geq \text{Stroke}/2 + 150 \text{ mm}$   
Lateral250Nm Max.  
Lateral500Nm Max.  
≤50dB  
Hall sensor

## H12

2 – 6 Buttons  
RF connection mode  
High quality film  
1 x 12V battery power  
50m Effective remote control range

## H79

2 – 6 Buttons  
Wired connection mode  
Ergonomic design  
Tape light

## H131

Wireless transmitter remote controller  
100m remote control distance  
Built-in battery

## HL1

3 memory buttons  
LED shows actual  
Table height  
Safety lock

## HL9

Silica gel lifting button  
Small design

## CT2

Stainless steel button  
Embedded in the frame

### Handset control



## C32

Controllable two motors  
Input: AC 100 ~240V  
Max power: 200W  
Can be used with hammer battery  
Built-in overheat / overload protection

## C42

Control box support 2 motors Can  
be attached to A58 or mounted separately  
Built-in switch power supply  
Input: 100~240V AC, 60 / 50 Hz  
Output voltage and current:  
29V DC & 4A Max.

## C43

Control box support 3 motors Can  
be attached to A58 or mounted separately  
Built-in switch power supply  
Input: 100~240V AC, 60 / 50 Hz  
Output voltage and current:  
29V DC & 5A Max

## PS1

29V 1.8A switch power supply  
Support multi-country standard socket

## PS5

29V 1.8A switch power supply  
Separable AC line

## T18

External safety switch  
Can be connected to a drive  
or controller  
Can be reset automatically

## C47

Wireless receiver box  
Can be connected via RF/ Bluetooth  
Can be universal RICHMAT arbitrary  
wirelessh and controller

## C71

One to four control box  
RF communication mode  
Working voltage: 24V  
Working current: 45A  
Protection grade: IP66

### Control box

## T38

Emergency stop switch  
Rotate to restart

### Accessories

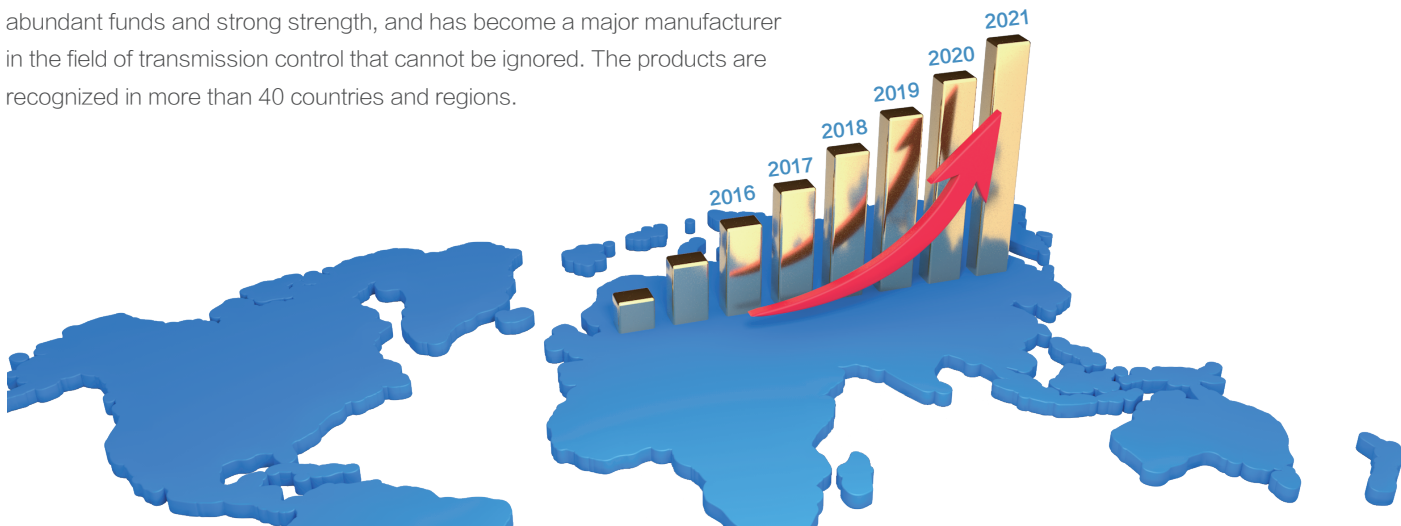
## TS1

Safety switch  
Motor driver movement can be blocked  
when touched.Can replace the remote  
control to realize the motor drive up and  
down movement length and number of  
segments can be customized according  
to customer requirements



RICHMAT global influence

By 2021, RICHMAT has achieved profitability for 11 consecutive years, with abundant funds and strong strength, and has become a major manufacturer in the field of transmission control that cannot be ignored. The products are recognized in more than 40 countries and regions.



INDUSTRY CHAIN INTEGRATION ABILITY



RICHMAT has perfect industry chain integration ability. By 2020, RICHMAT has realized the complete self management of mold development, product injection molding, electronic control research and development, and finished product assembly . At present, there are 4 production bases, covering a total area of about 100,000m' and employing nearly 1200 people. Facing the future, RICHMAT will further open up upstream and downstream channels, realize the leapfrog development of production scale, and aspire to become the world's top transmission and control system service provider.

Every 6 seconds in the world

There's a RICHMAT actuator installed

RICHMAT has strong industrial manufacturing capacity and shipping capacity.At present, it can realize the annual production and sales of 5 million motors Force, on average, a motor is sold and used every 6 seconds.

5,000,000  
production capacity  
per year

10,000  
production  
capacity per day

7 – 15 days  
shot lead time

1 year after  
sales warranty



Mould development

Mold subsidiary, responsible for all kinds of mold development

Injection molding

Injection molding Department, responsible for ABS appearance parts production

Research and development

Electronic technology company, responsible for programs, circuit board development and production.

Production and manufacturing

The headquarters is responsible for the shipment of finished products, annual output of at least 5 million.

CERTIFICATION SYSTEM

Quality system | intellectual property | trademark patent | qualification certification



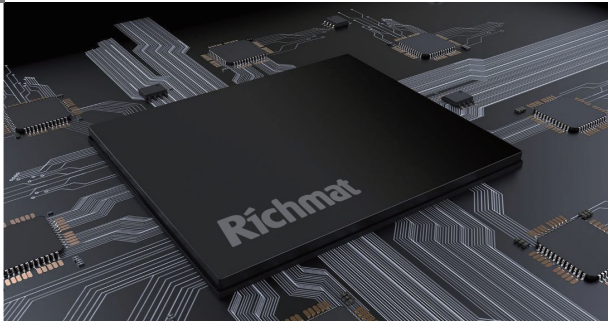


### RICHMAT High-tech Industrial Park

RICHMAT is located in jimo semiconductor New technology Industrial Park base. It undertakes RICHMAT's mainproduction and processing tasks. The industrial park covers an area of about 80,000m', with an investment of several hundred million yuan and currently employs about 900 people. It is also one of the key projects of Jimo high-tech development plan.

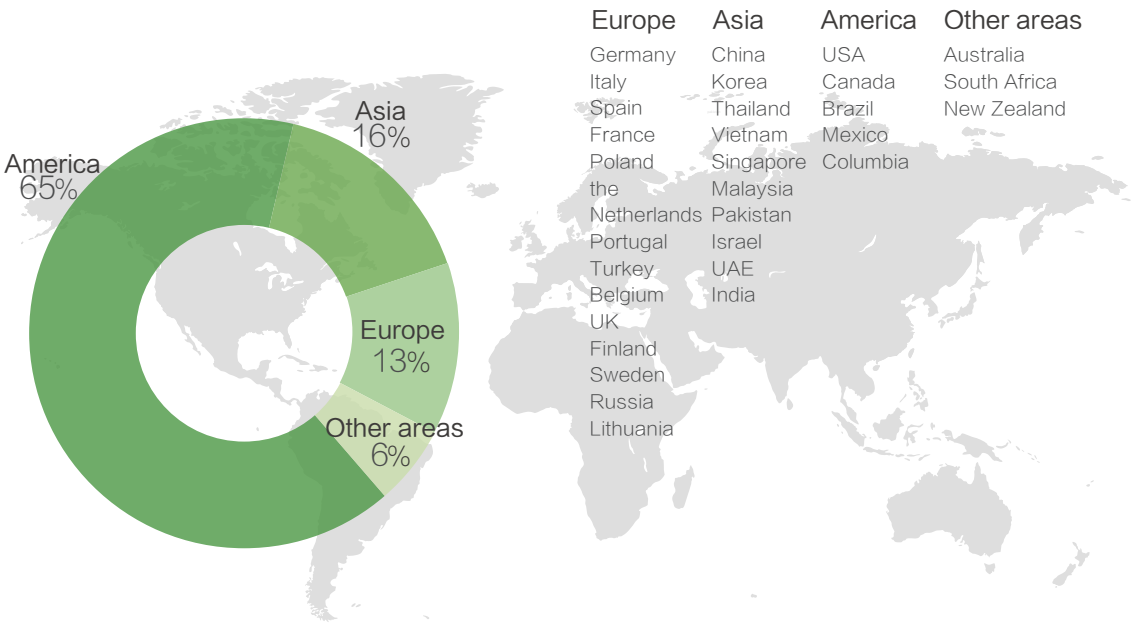
### RICHMAT Electronic Technology Research and Development Center

RICHMAT electronic technology R & D center is responsible for r & D of various electrified components, covering a series of electronic control, sensors, sensors, circuit boards and other products, which is the leading electronic control R & D center in Shandong province.



## RICHMAT

### INTERNATIONAL SALES NETWORK



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