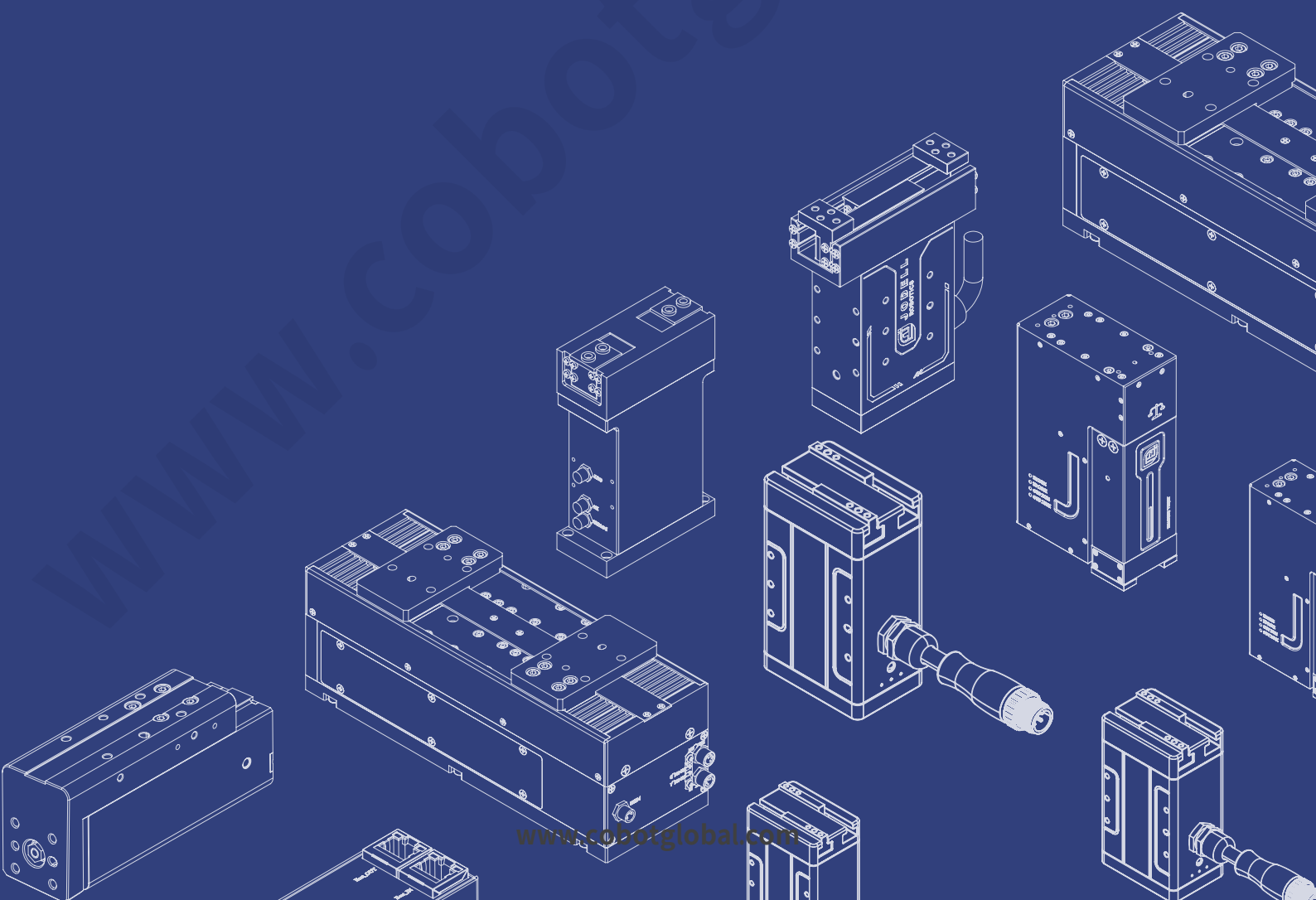
JODELL ROBOTICS

PROVIDE THE MOST COMPETITIVE EXECUTIVE COMPONENTS FOR INDUSTRY AUTOMATION



CONTENTS

ABOUT US

COMPAY PROFILE

Jodell Robotics is a national high-tech enterprise founded by a team of doctors from the Robotics Institute of Harbin Institute of Technology (HIT), committed to providing the most competitive executive components for industry automation. In response to the intelligent needs of biomedical, laboratory automation, 3C, new energy and other industries, the company has developed a series of star products such as industrial-grade collaborative robots, “2-minute configuration” easy to use, reliable, and intelligent electric parallel grippers for integrated automation systems, as well as electric rotary grippers, electric vacuum actuators, electric center grippers, industrial-grade dexterous hands, as a science and technology leader in the field of gripping actuators in China.

COMPANY BUILDING

4+
Doctor

16+
masters

150+
Invention Patents

PRODUCT OVERVIEW

15+
Competitive registered electric servo products

30+
Annual Increment in Product Quantity

220+
Currently serving 220 listed companies

5000+
The number of customers has approached nearly 5000

CORPORATE CULTURE

TO REVOLUTIONIZE THE REPLACEMENT OF **“PNEUMATIC”** EXECUTIVE COMPONENTS WITH **“ELECTRIC SERVOS”** AROUND THE WORLD

BRAND

Reliable quality fast response and first-class technology

VISION

To be a world-class national brand in the automation industry

VALUES

Trustworthiness Simplicity Efficiency Professionalism Innovation

DEVELOPMENT HISTORY

2016

The first generation of industrial-grade dexterous hand prototypes was successfully developed.

2017

In December 2017, the second generation of Junqiao series dexterous hands was successfully developed.

2018

In June 2018, an integration test with the robot was completed for Junqiao series dexterous hands;

In December 2018, the company completed its angel round financing with Junqiao series dexterous hands, invested by Liangliang Capital and Taiyou Capital, with a total amount of nearly 10 million yuan.

2019

In May, the company broke through the key technology of electric servo grippers;

In June, it was awarded the Gusu + Wujiang entrepreneurial leader funding; in October, it broke through the key technology of electric suction cups;

In October, it won the second place in the World Internet Conference Wuzhen Summit, which was reported by CCTV; in October, it was awarded the first prize in the Jiangsu “Creation Cup” competition;

In November, it was awarded the Excellent Enterprise Award in the Advanced Manufacturing Group of the China Innovation and Entrepreneurship Competition.

2020

In February, the company completed the development and improvement of the third generation of Junqiao series dexterous hands; from March to April, it platformized the electric gripper drive control and software;

In May, it completed the mass production assessment of the core parts of the electric gripper, and began small batch trial production;

In August, it was awarded the title of “Provincial Shuangchuang Talent Enterprise”;

In September, it received nearly 20 million yuan of venture investment from Zhengxuan Capital and Bangsheng Capital;

In September, it received nearly 20 million yuan of venture investment from Zhengxuan Capital and Bangsheng Capital;

In December, it was awarded the title of National High tech Enterprise and won the second-phase entrepreneurial support of millions of yuan from Fenhu High-tech Development Zone; in December, it was rated as a fast-growing enterprise in 2020 by Gaogong Robot.

2021

In February, the company set up Jodell Robotics (Shanghai) Co., Ltd. in the Zhangjiang Kangqiao Industrial Park;

In March, it set up an office in Minhang, Shanghai for the research and development of LRA products: ERG series rotary grippers for medical automation were successfully developed in the first quarter, and they became a popular product in the industry with excellent performance;

In December, Jodell Robotics was awarded the title of 2021 Suzhou “Unicorn” Cultivation Enterprise.

2022

In March, Jodell Robotics announced its completion of A+ round of financing of nearly 50 million yuan;

In May, Suzhou Junchuan Technology Co., Ltd. was established, focusing on the R&D and manufacturing of hollow cup motors, frameless motors and micro precision planetary gear reducers.

2023

In November, Jodell Robotics announced its completion of a B round of financing of nearly 100 million yuan;

In March, it was selected as a "potential unicorn enterprise" in Jiangsu Province;

In November, he won the first prize of "Top Ten Young Talents Innovation and Entrepreneurship Pacesetter in Jiangsu".

2024

In June, Suzhou Chundong Touch Robot Co., Ltd. was established to focus on the R&D and manufacturing of humanoid robots and multi fingered bionic dexterous hands;

In August, Jodell Robotics SG PTE. LTD. was established in Singapore, marking the official start of Jodell's internationalization journey.

TO BE CONTINUED...

PRODUCT ADVANTAGESRY

Standardized Refined Design

Standardized series platform-level-design for consistent, superior performance.

Most of the products adopt the “drive-control-execution-integrated” design concept to minimize the delay of communication ——execution;

Comprehensive High-accuracy Design

JD had self-developed high-precision and low-latency position sensors to effectively improve position resolution and real-time performance.

Motor control based on including FOC vector algorithms to optimize mechanical models for high-precision force control.

Refined structural design to effectively reduce structural errors such as backlash.

Direct-drive actuators achieve μm-level positional accuracy and 0.1N-level force control accuracy.

High Reliability Design

Redundant design concepts for application-level parameters are adopted to effectively safeguard product life while realizing the corresponding functions.

Based on the needs of customer application scenarios, the design of power-down hold, power-down self-locking and other types of security functions to ensure the reliability of the application

High User-Friendly Concept

Products adopt multi-face installation and cable options, flexible deployment.

A variety of communication modes are optional, adapting to different types of master control.

The product has the function of developing and setting software, rapid configuration, convenient use.

The “drive-control-execution-integrated” design concept also saves cable installation spaces;

Solution-level Integration Capabilities

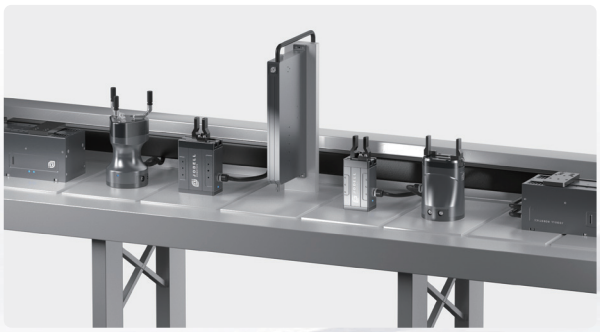
For complex multi-part scenarios, JD can provide system-level integration solutions to minimize the difficulty of on-site deployment and improve maintainability.

For solution-level integration, functions can also be realized using a combination of different types of products or specialized customized products.

High Quality Assurance

JD carries out the consistent high quality policy, from product development to product operation of the whole process of strict quality control.

For each performance parameter of the product, the aging and performance tests are strictly carried out in the factory to guarantee the use of the customer.



SELECTION STEPS FOR CLAMPING GRIPPERS

Confirmation of working conditions and applications

Confirm the type of actuator or the configuration required according to the operating conditions and application. Examples of work conditions and applications include workpiece transfer assembly, workpiece guiding and positioning, and workpiece I.D. and O.D. measurement, For high-precision applications such as guiding and positioning and measuring, it is recommended to use the product model with the "HP" designation.

Confirm the maximum required gripping force

Confirmation of gripping Force:

The weight of the workpiece that can be clamped by the gripper is related to the friction coefficient of the fixture. To avoid workpiece falling, it is generally recommended that the gripping force be 10 times or more than the weight of the workpiece. For example, if the coefficient of friction is 0.2 and the weight of the workpiece is lkg, the gripping force required will be 100N or more.

When the workpiece to be gripped is subjected to large acceleration/deceleration or impact forces when moving, it is necessary to determine the gripping force with a higher safety factor. Please consult your local sales representative for details.

Note: The gripping force described in the product manual are based on the result at 30mm from the height of the palm of the hand; changes in the clamping position may result in changes in the actual gripping force, contact your salesperson for assistance in selecting a model.

Confirmation of installation method

Actuators are generally available in various mounting methods, and different mounting methods will affect the maximum load mass value. Meanwhile, in order to ensure the actuator can operate normally, please refer to the product selection manual before selecting the actuator to judge whether the dynamic load moment is within the parameter range under the required installation method.

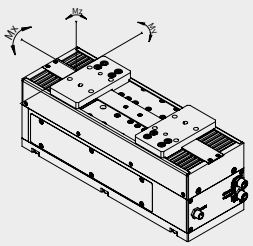
Confirmation of stroke & speed

Confirm the maximum range of travel distance required for the working condition and the speed/beat requirements.

Stroke : When selecting a model, the rated stroke of the actuator should be greater than the actual movement distance.

Stroke = Maximum workpiece diameter (H1)- Minimum workpiece diameter (H2) (for a wide range of workpieces); small stroke gripper can be used to clamp large diameter workpieces by changing the fixture design.

Speed : Check the gripper opening/closing time (the time described in the manual is the movement time for the full stroke).



Confirmation of dynamic load operating torque

Users can design their own customized fixtures according to the actual application scenarios, the size and shape of the workpiece to be clamped. The fixture design should pay attention to the permissible torque value of the motorized jaws (Mx/My/Mz= Fx*Sx/Fy*Sy/Fz*Sz) so as to prevent the fixture from exceeding the maximum permissible load force, which will affect the mechanical life.

Confirmation of communication protocol

Please select the desired control method according to the actual needs, see the detailed product model selection list;

Other requirements

If there are special requirements for operating voltage, ambient temperature, ambient humidity, safety protection level, etc., please refer to the corresponding product selection page or contact local sales personnel.

OVERVIEW OF THE PRODUCT PORTFOLIO

EPG Series
Electric Parallel Gripper

GRASPING FEEDBACK | FOUR-SIDE MOUNTING | NETWORKED APPLICATIONS | POWER-LOSS AUTO-LOCK

Model	Adjustable stroke(mm)	*Single finger gripping force(N)	Deadweight(kg)	Open/Close time(s)
EPG26-006	0-26mm	2-6N	0.20kg	0.25s
EPG26-015	0-26mm	2-15N	0.25kg	0.30s
EPG40-050	0-40mm	4-50N	0.36kg	0.50s
EPG40-100	0-40mm	40-100N	0.37kg	1.10s
EPG50-060	0-50mm	10-60N	0.57kg	0.60s
EPG50-100	0-50mm	40-100N	0.53kg	1.10s

*The range of boosting force that can be achieved at full power and full speed.

EPG-HP Series
High Precision Electric Parallel Gripper

GRASPING FEEDBACK | FOUR-SIDE MOUNTING | PRECISE POSITIONING | POWER-LOSS AUTO-LOCK

Model	Adjustable stroke(mm)	*Single finger gripping force(N)	Deadweight(kg)	Open/Close time(s)
EPG-HP26-050	0-26mm	5-50N	0.45kg	0.65s
EPG-HP50-050	0-50mm	5-50N	0.45kg	0.70s
EPG-HP60-050	0-60mm	5-50N	0.56kg	0.85s

*The range of boosting force that can be achieved at full power and full speed.

EPG-L Series

Industrial electric parallel gripper

ULTRA-LARGE STROKE

GRASPING FEEDBACK

POWER-LOSS AUTO-LOCK

POWER OFF MEMORY

Model	Adjustable stroke(mm)	*Single finger gripping force(N)	Deadweight(kg)	Open/Close time(s)
EPG-L42-050	0-42mm	50N	0.74kg	0.16s
EPG-L80-150	0-80mm	40-150N	1.5kg	0.53s
EPG-L80-400	0-80mm	40-400N	3kg	1s/1.1s
EPG-L180-800	0-180mm	100-800N	4kg	2s

*The range of boosting force that can be achieved at full power and full speed.

EPG-T Series

Ultra-thin electric parallel gripper claws

ULTRA-THIN

GRASPING FEEDBACK

POWER-LOSS AUTO-LOCK

POWER OFF MEMORY

Model	Adjustable stroke(mm)	*Single finger gripping force(N)	Deadweight(kg)	Open/Close time(s)
EPG-T60-800	0-60mm	800N	——	1.1s/1.2s
EPG-T100-800	0-100mm	800N	——	1.1s/1.2s
EPG-T180-800	0-180mm	800N	5kg	1.1s/1.2s
EPG-T220-800	0-220mm	800N	——	1.1s/1.2s
EPG-T250-800	0-250mm	800N	——	1.1s/1.2s

RG Series
Robotic Gripper

STANDARD INTERFACE

POWER-LOSS AUTO-LOCK

GRASPING FEEDBACK

POWER-LOSS AUTO-LOCK

Model	Adjustable stroke(mm)	*Single finger gripping force(N)	Deadweight(kg)	Open/Close time(s)
RG52-050	0-52mm	3-50N	0.75kg	0.65s
RG75-300	0-75mm	40-300N	1.50kg	0.55s

*The range of boosting force that can be achieved at full power and full speed.

ERG Series
Electric Rotary Gripper

INFINITE FORWARD AND BACKWARD ROTATION

INTEGRATED DRIVE AND CONTRO

NETWORKING APPLICATION

FOUR-SIDE MOUNTING

Model	Adjustable stroke(mm)	*Single finger gripping force(N)	Deadweight(kg)	Open/Close time(s)	Rated Torque(N·m)
ERG08-023	0-8mm	4-23N	0.6kg	0.3s	0.12N·m
ERG08-030	0-8mm	4-30N	0.6kg	0.5s	0.2N·m
ERG32-150	0-32mm	40-100N	0.7kg	0.5s	0.2N·m
ERG32-150T	0-32mm	40-100N	0.7kg	0.5s	0.3N·m

*The range of boosting force that can be achieved at full power and full speed.

ERG-HP Series

High-precision electric rotary gripper

INFINITE FORWARD AND BACKWARD ROTATION

INTEGRATED DRIVE AND CONTRO

NETWORKING APPLICATION

PRECISE ROTARY POSITIONING

Model	Adjustable stroke(mm)	Single finger gripping force(N)	Deadweight(kg)	Open/Close time(s)	Rotation repeatability
ERG-HP16-023	0-16mm	8-23N	0.65kg	0.3s	±0.02°
ERG-HP20-023	0-20mm	8-23N	0.65kg	0.3s	±0.02°

*The range of boosting force that can be achieved at full power and full speed.

ELS Series

Electric Linear Slide Table

HIGH POSITIONING ACCURACY

INTEGRATED DRIVE AND CONTROL

DIRECT-DRIVE CLOSED-LOOP CONTROL TECHNOLOGY

ULTRA-THIN

Model	Full stroke(mm)	Positional repeatability(mm)	Body width(mm)	Protection level
ELS-SW-30	30mm	±0.02mm	34mm	IP40
ELS-SW-50	50mm	±0.02mm	34mm	IP40
ELS-30	30mm	±0.02mm	45mm	IP40
ELS-50	50mm	±0.02mm	45mm	IP40
ELS-75	75mm	±0.02mm	43mm	IP40
ELS-150	150mm	±0.02mm	43mm	IP40
ELS-HP30	30mm	±0.004mm	45mm	IP40
ELS-HP50	50mm	±0.004mm	45mm	IP40

LRA Series
Linear Rotary Actuator

ULTRA-THIN | SOFT LANDING | LINEAR ROTATION | PRECISION PICK AND PLACEMENT

Model	Adjustable stroke(mm)	Rated thrust(N)	Thickness(mm)	Deadweight(kg)
LRA15-20	15mm	12N	20mm	0.70kg
LRA25-20	25mm	12N	20mm	0.74kg
LRA30-23	30mm	10N	23mm	1.27kg
LRA30-25	30mm	10N	25mm	1.1kg
LRA40-23	40mm	10N	23mm	1.25kg
LRA60-25	60mm	10N	25mm	1.50kg
LRA15-50V	15mm	27.5N	50mm	1kg
LRA-S-40-16M	40mm	6N	16mm	0.78kg
LRA-E50-25	50mm	12N	25mm	1kg
LRA-HP-25-20	25mm	12N	20mm	0.74kg
LRA-HP-40-23	40mm	10N	23mm	1.2kg
LRA-F-15-20	15mm	6N	20mm	0.65kg
LRA-F-15-50V	15mm	27.5N	50mm	1kg
LRA-F-30-22	30mm	8.9N	22mm	0.93kg

LA Series
Voice coil linear actuator

SOFT LANDING | HIGH FREQUENCY | HIGH SPEED | INTELLIGENT FEEDBACK

Model	Stroke(mm)	Sustained thrust(N)	Total weight(kg)	Idling frequency(Hz)
LA10-35V	10mm	13.6N	0.45kg	30Hz
LA15-50V	15mm	27.5N	0.58kg	10Hz
LA25-20	25mm	12N	0.60kg	10Hz
LA-HP10-35V	10mm	13.6N	0.45kg	30Hz

EVS Series
electric suction cups

NO EXTERNAL AIR SOURCE IS REQUIRED

DROP DETECTION

GRAB FEEDBACK

POWER OUTAGE PRESSURE MAINTENANCE

Model	Maximum recommended load(kg)	Vacuum degree	Deadweight(kg)	Adsorption/Release time (s)
EVS01	1kg	60%	0.30kg	0.20s/0.10s
EVS08	8kg	70%	1.40kg	0.30s/0.20s

ERS Series
Rotary vacuum actuator

NO EXTERNAL AIR SOURCE IS REQUIRED

DROP DETECTION

DIGITAL CONTROL

POWER OUTAGE PRESSURE MAINTENANCE

Model	Vacuum degree	Maximum recommended load(kg)	Minimum adsorption/releasetime(s)	Maximum flow rate(L/min)
ERS01	60%	1kg	0.4s/0.15s	2.5L/min

WEPG Series
Weighing gripper

SAFE AND EFFICIENT

STROKE FEEDBACK AND DROP DETECTION

INTELLIGENT HIGH PRECISION WEIGHING

INTELLIGENT GRIPPING FORCE CONTROL

Model	Adaptive gripper	Stroke(mm)	Gripping force(N)	Maximum weighing range(kg)
WEPG03	EPG32-150	30mm	150N	3kg
WEPG05	EPG60-300	60mm	300N	5kg
WEPG-T-15	EPG-T180-800	180mm	800N	12kg

LEIS Series
Lithium battery integration solution of parallel gripper

INDEPENDENT CONTROL

SPACING CUSTOMIZATION

HIGHLY INTEGRATION

DROP DETECTION

Model	Adjustable stroke(mm)	Maximum gripping force of single finger(N)	Maximum recommended load for single gripper(kg)	opening/closing time(s)
EPG22-300	0-22mm	300N	4kg	0.5s
EPG30-200	0-30mm	200N	4kg	0.5s

EPG SERIES
ELECTRIC PARALLEL GRIPPER

Characteristic

- High security
- Ultra-thin design
- Equipped with mechanical self-locking mechanism
- Meeting the requirement of clamping multiple workpieces side by side

Advantages

GRASPING FEEDBACK | FOUR-SIDE MOUNTING | PRECISION FORCE CONTROL | POWER-LOSS AUTO-LOCK

Application scenarios

3C ELECTRONICS | MEDICAL DEVICES | PRECISION MANUFACTURING | ELECTRIC APPLIANCE | EDUCATION | AUTOMOBILES AND RELATED

Naming Rules

Product line	Stroke		Gripping force		Outlet position	Cable material	Outgoing line direction		Cable fixed end length		Communication mode		Contracting brake function		Supply voltage		IP level
EPG	26	–	006	–	1	P	U	–	L200	–	C0	–	N	–	A	–	P40

0-Side outlet	S-Soft	U-Up	L200-200mm	C0-485	N-Without contracting brake	A-24v	P40-IP40
1-Bottom outlet	P-Pliable	D-Down	L5000-5000mm	C7-485+I/O	O-With contracting brake		P65-IP65
		L-Left					
		R-Right					
		B-Back					
		F-Front					

Note: The above is an example of naming rules

Optional models

PRODUCT LINE	PRODUCT MODEL	MATCHING CABLE	CABLE MATERIAL	OUTLET METHOD	COMMUNICATION PROTOCOL	OTHER
EPG26-006	**EPG26-006-1PU-L200-C0-N-A-P40-S00**	**M12-5FA-S5-5000-P**	——	**Top outlet**	**485**	——
EPG26-006	EPG26-006-1L5000-C0024-P40-A01	Body outlet	Soft cable	Body outlet	485	——
EPG26-015	**EPG26-015-1PU-L200-C7-N-A-P40-S00**	**M12-5FA-S5-5000-P**	**Pliable cable**	**Top outlet**	**485+I/O**	**C7:PP PN NP NN**
EPG26-015	EPG26-015-1SU-L5000-C0-N-A-P40-C33	Body outlet	Soft cable	Top outlet	485	——
EPG26-015	EPG26-015-1SB-L5000-C0-N-A-P40-C33	Body outlet	Soft cable	Side outlet	485	——
EPG40-050	**EPG40-050-0PF-L200-C7-N-A-P40-S00**	**M12-12FA-S12-5000-P**	——	——	**485+I/O**	**C7:PP PN NP NN**
EPG40-050	EPG40-050-0PF-L200-C0-N-A-P40-S00	M12-5FA-S5-5000-P	——	Side outlet	485	——
EPG40-050	EPG40-050-1PU-L200-C0-N-A-C40	M12-5FA-S5-5000-P	——	Top outlet	485	——
EPG40-050	EPG40-050-0PF-L200-C0-N-A-P65-S00	M12-5FA-S5-5000-P	——	Side outlet	485	IP65
EPG40-050	EPG40-050-0SB-L5000-C0-N-A-P40-C33	M12-5FA-S5-5000-P	High flexibility cable	Side outlet	485	——
EPG50-060	**EPG50-060-0PF-L200-C7-N-A-P40-S00**	**M12-12FA-S12-5000-P**	——	——	**485+I/O**	**C7:PP PN NP NN**
EPG50-060	EPG50-060-0PF-L200-C0-N-A-P40-S00	M12-5FA-S5-5000-P	——	——	485	——
EPG50-060	EPG50-060-0PF-L200-C0-O-A-P65-C35	M12-5FA-S5-5000-P	——	——	485	IP65 With contracting brake
EPG40-100	**EPG40-100-0PF-L200-C7-N-A-P40-S00**	**M12-12FA-S12-5000-P**	——	——	**485+I/O**	
EPG40-100	EPG40-100-0PF-L200-C0-N-A-P40-S00	M12-5FA-S5-5000-P	——	——	485	——
EPG40-100	EPG40-100-0SU-L5000-C0-N-A-P40-C32	Body outlet	High flexibility cable	——	485	——
EPG40-100	EPG40-100-0PF-L1500-C0-N-A-P65-C41	M12-5FA-S5-5000-P	——	——	485	IP65
EPG40-100	EPG40-100-1PU-L200-C0-N-A-P40-C45	M12-5FA-S5-5000-P	——	Top outlet	485	——
EPG50-100	**EPG50-100-0PF-L200-C7-N-A-P40-S00**	**M12-12FA-S12-5000-P**	——	——	**485+I/O**	**C7:PP PN NP NN**
EPG50-100	EPG50-100-0PF-L200-C0-N-A-P40-S00	M12-12FA-S12-5000-P	——	——	485	——
EPG50-100	EPG50-100-0PF-L200-C0-N-A-P65-S00	M12-5FA-S5-5000-P	——	——	485	IP65
EPG50-100	EPG50-100-0PF-L200-C0-O-A-P40-C42	M12-5FA-S5-5000-P	——	——	485	With contracting brake

Note: The blue bold model is the standard model. To order a model other than the standard model, please contact your regional sales representative.

EPG26-006

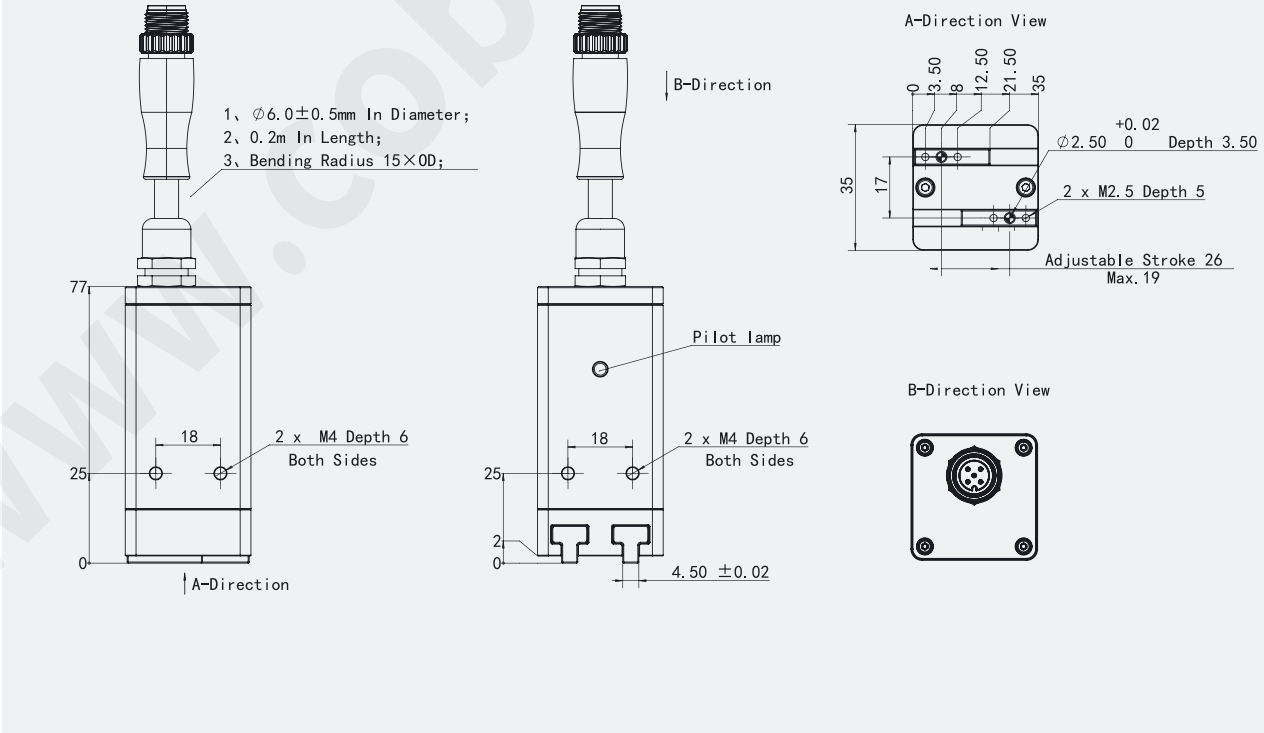
Model: EPG26-006-1PU-L200-C0-N-A-P40-S00

Product parameters

Adjustable stroke	**0-26 mm**	Rated voltage	**DC 24V±10%**
Single-finger gripping force	**2-6 N**	Maximum current	**0.85 A**
Open/Close time	**0.25s**	Rated current	**0.4 A**
Position repeatability	**±0.02 mm**	Communication protocol	**Modbus RTU(RS 485)**
Maximum recommended load	**0.1 kg**	Compliance with international standard	**CE、RoHS**
Drop detection	**Supported**	Allowable static load in vertical direction Fz	**100 N**
Working environment	**5~40℃, <85% RH**	Allowable static moment of the slider Mx	**0.8 N·m**
Running noise	**< 40 dB**	Allowable static moment of the slider My	**0.6 N·m**
Deadweight	**0.20 Kg**	Allowable static moment of the slider Mz	**0.5 N·m**
IP level	**IP40**		

Note: This product does not include finger clamps

EPG26-006 Dimension drawing



EPG26-015

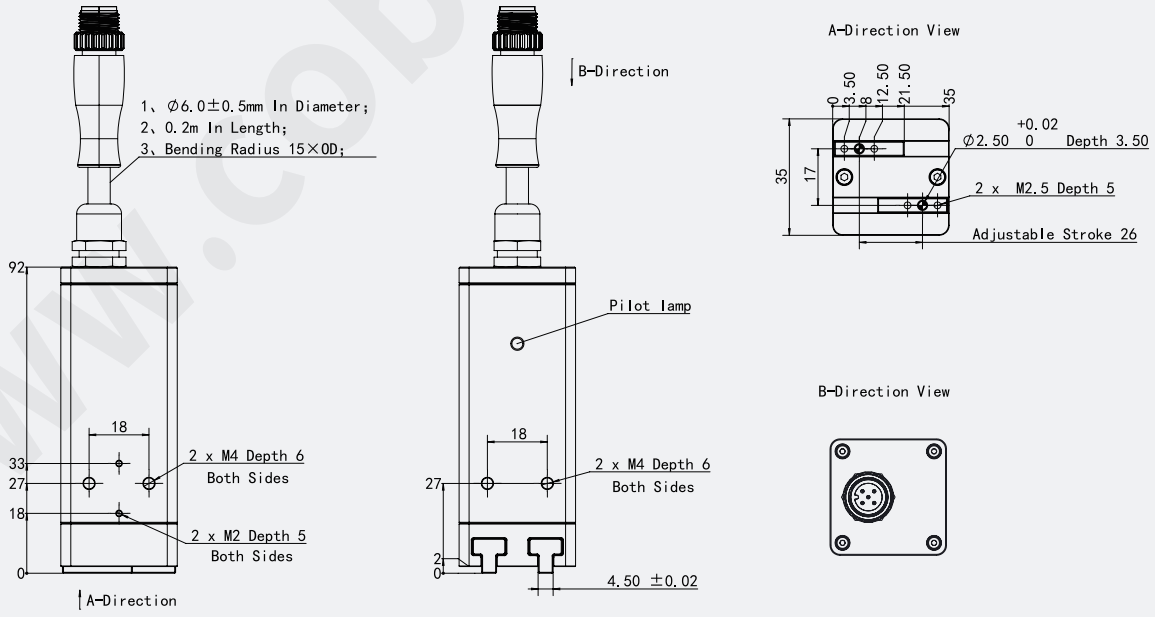
Model: EPG26-015-1PU-L200-C7-N-A-P40-S00

Product parameters

Adjustable stroke	**0-26 mm**	Rated voltage	**DC 24V±10%**
Single-finger gripping force	**2-15 N**	Maximum current	**0.85 A**
Open/Close time	**0.3 s**	Rated current	**0.4 A**
Position repeatability	**±0.02 mm**	Communication protocol	**Modbus RTU(RS 485)**
Maximum recommended load	**0.3 Kg**	Compliance with international standard	**CE、RoHS**
Drop detection	**支持**	Allowable static load in vertical direction Fz	**150 N**
Working environment	**5~40℃，85% RH以下**	Allowable static moment of the slider Mx	**1.2 N·m**
Running noise	**＜40 dB**	Allowable static moment of the slider My	**0.9 N·m**
Deadweight	**0.25 Kg**	Allowable static moment of the slider Mz	**0.55 N·m**
IP level	**IP 40**		

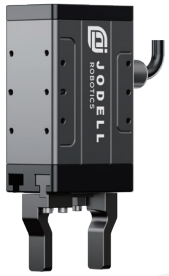
Note: This product does not include finger clamps

EPG26-015 Dimension drawing



EPG40-050

Model: EPG40-050-0PF-L200-C7-N-A-P40-S00

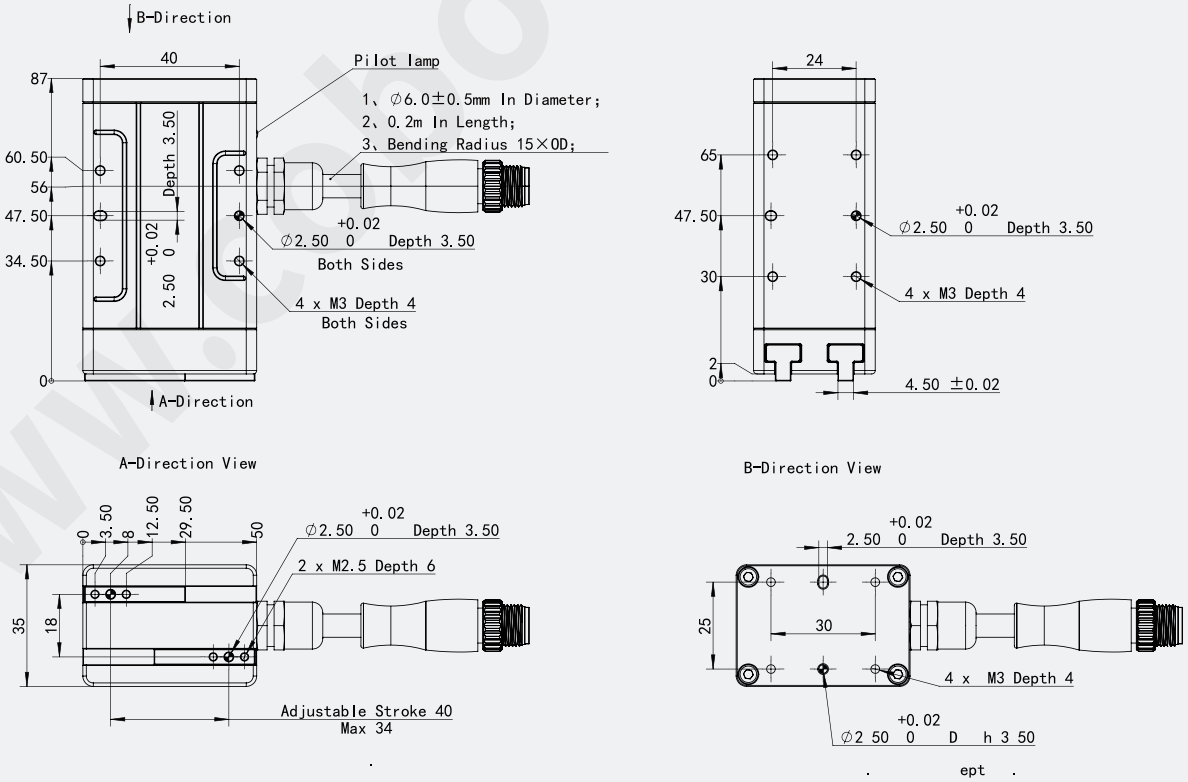


Product parameters

Adjustable stroke	**0-40 mm**	Rated voltage	**DC 24V±10%**
Single-finger gripping force	**4-50 N**	Maximum current	**0.85 A**
Open/Close time	**0.5 s**	Rated current	**0.4 A**
Position repeatability	**±0.02 mm**	Communication protocol	**RS 485+I/O**
Maximum recommended load	**0.8 kg**	Compliance with international standard	**CE、RoHS**
Drop detection	**Support**	Allowable static load in vertical direction Fz	**200 N**
Working environment	**0~40℃, ≤85% RH**	Allowable static moment of the slider Mx	**2 N·m**
Running noise	**< 40 dB**	Allowable static moment of the slider My	**1.5 N·m**
IP level	**IP 40**	Allowable static moment of the slider Mz	**2 N·m**
Deadweight	**0.36kg**		

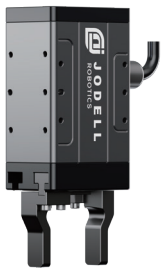
Note: This product does not include finger clamps

EPG40-050 Dimension drawing



EPG40-100

Model: EPG40-100-0PF-L200-C7-N-A-P40-S00

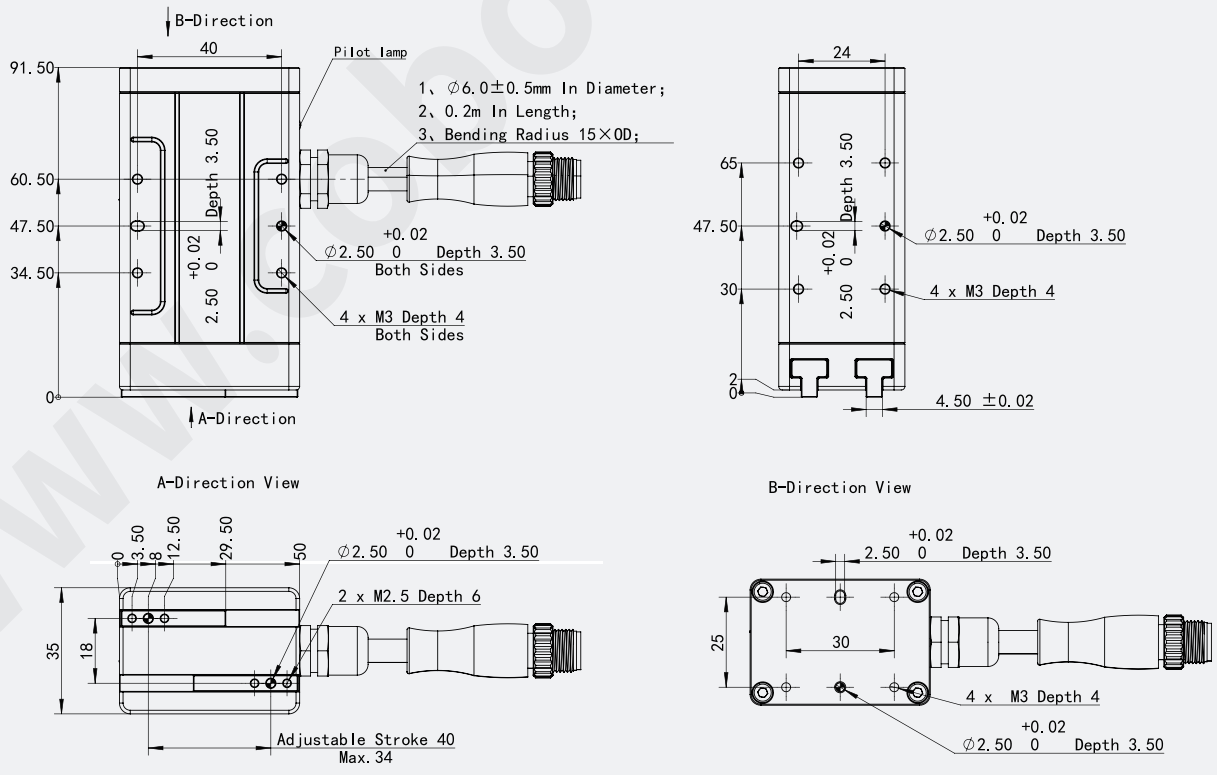


Product parameters

Adjustable stroke	**0-40 mm**	Deadweight	**0.37 kg**
Single-finger gripping force	**40-100 N**	Rated voltage	**DC 24V±10%**
Open/Close time	**1.10 s**	Maximum current	**0.85 A**
Position repeatability	**±0.02 mm**	Rated current	**0.4 A**
Maximum recommended load	**2 kg**	Communication protocol	**RS 485+I/O**
Drop detection	**Support**	Allowable static load in vertical direction Fz	**200 N**
Working environment	**5~40℃, ≤85% RH**	Allowable static moment of the slider Mx	**2 N·m**
Running noise	**< 40 dB**	Allowable static moment of the slider My	**1.5 N·m**
IP level	**IP40**	Allowable static moment of the slider Mz	**2 N·m**

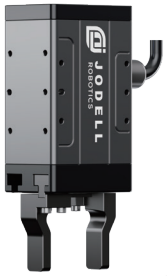
Note: This product does not include finger clamps

EPG40-100 Dimension drawing



EPG50-060

Model: EPG50-060-0PF-L200-C7-N-A-P40-S00

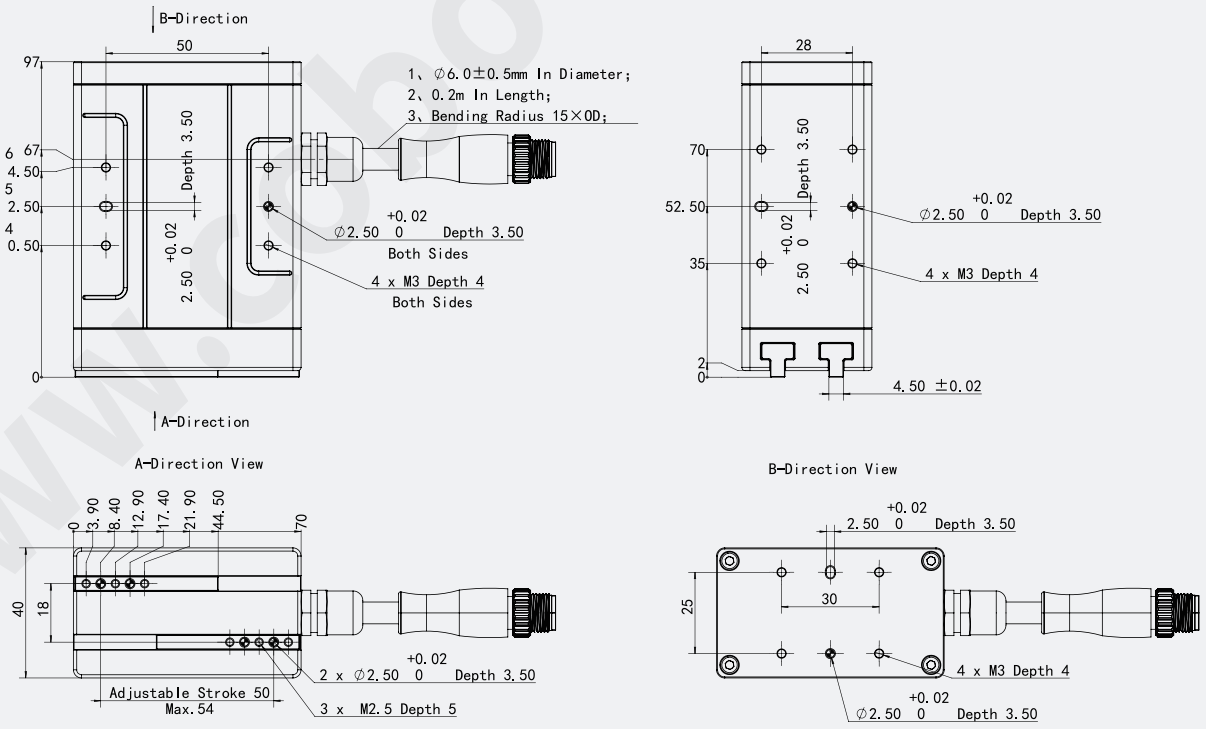


Product parameters

Adjustable stroke	0-50 mm	Rated voltage	DC 24V±10%
Single-finger gripping force	10-60 N	Maximum current	0.85 A
Open/Close time	0.6 s	Rated current	0.4 A
Position repeatability	±0.02 mm	Communication protocol	RS 485+I/O
Maximum recommended load	1 kg	Compliance with international standard	CE、RoHS
Drop detection	Support	Allowable static load in vertical direction Fz	200 N
Working environment	5~40℃, ≤85% RH	Allowable static moment of the slider Mx	2 N·m
Running noise	< 40 dB	Allowable static moment of the slider My	1.5 N·m
IP level	IP40	Allowable static moment of the slider Mz	2 N·m
Deadweight	0.57 kg		

Note: This product does not include finger clamps

EPG50-060 Dimension drawing



EPG50-100

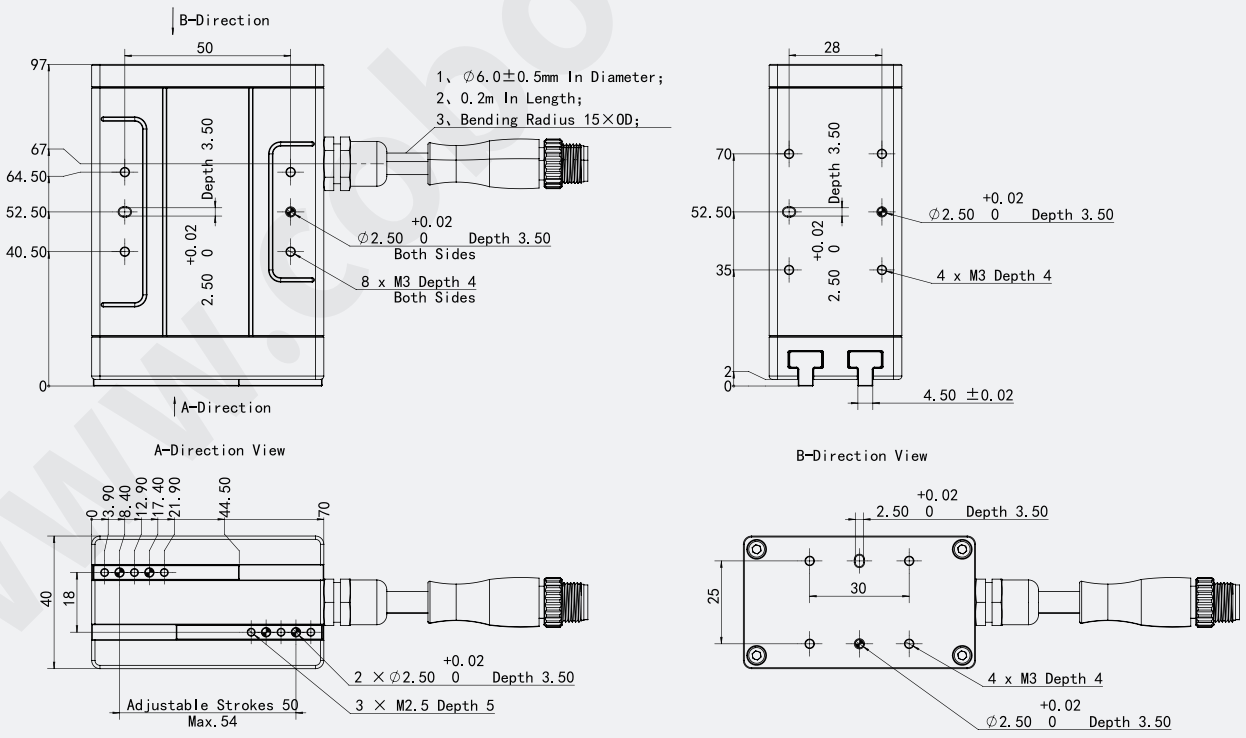
Model: EPG50-100-0PF-L200-C7-N-A-P40-S00

Product parameters

Adjustable stroke	0-50 mm	Deadweight	0.53 kg
Single-finger gripping force	40-100 N	Rated voltage	DC 24V±10%
Open/Close time	1.10 s	Maximum current	0.6 A
Position repeatability	±0.02 mm	Rated current	0.25 A
Maximum recommended load	2 kg	Communication protocol	RS 485+I/O
Drop detection	Support	Allowable static load in vertical direction Fz	200 N
Working environment	5~40℃, ≤85% RH	Allowable static moment of the slider Mx	2.5 N·m
Running noise	< 40 dB	Allowable static moment of the slider My	2 N·m
IP level	IP40	Allowable static moment of the slider Mz	2.8 N·m

Note: This product does not include finger clamps

EPG50-100 Dimension drawing



注:本产品出货不含夹指

EPG-HP SERIES
HIGH PRECISION ELECTRIC PARALLEL GRIPPER

Product features

- High precision and high rigidity
- Power outage pressure maintenance, equipped with mechanical self-locking mechanism.
- Multi-sided installation for flexible deployment in a variety of installation spaces.
- Optimized speed control for high-beat working scenarios at the production end.
- Unilateral gripping force up to 50N to satisfy a variety of gripping scenarios.

Advantages

GRAB FEEDBACK

MULTI-SIDED INSTALLATION

ACCURATE POSITIONING

POWER FAILURE SELF-LOCKING

Application scenarios

3C ELECTRONICS

MEDICAL DEVICES

PRECISION MANUFACTURING

ELECTRIC APPLIANCE

EDUCATION

AUTOMOBILES AND RELATED

Naming Rules

Product line	Stroke		Gripping force		Outlet position	Cable material	Outgoing line direction	Cable fixed end length	Communication mode	Contracting brake function	Supply voltage		IP level
EPG-HP	26	–	050	–	0	P	B	– L200	– C7	– N	– A	–	P40
					0- Side outlet	P-Pliable	U-Up	L200-200mm	C1-485+I/O(NN)	N-Without contracting brake	A-24v		P40-IP40
							D-Down	L5000-5000mm	C4-485+I/O(PN)	O-With contracting brake			
							L-Left		C7-485+I/O(Versatile)				
							R-Right		O-External drive				
							B-Back						
							F-Front						

Note: The above is an example of naming rules

Optional models

PRODUCT LINE	PRODUCT MODEL	MATCHING CABLE	CABLE MATERIAL	COMMUNICATION PROTOCOL	OTHER
EPG-HP26-050	**EPG-HP26-050-0PB-L200-C7-N-A-P40-S00**	**M12-12FA-S12-5000-P**	**Without contracting brake**	**485+I/O**	**C7:PP PN NP NN**
EPG-HP26-050	EPG-HP26-050-0PB-L200-C1-O-A-P40-S00	M12-8FA-S8-5000-P	With contracting brake	485+I/O	C1:NN
EPG-HP50-050	**EPG-HP50-050-0PB-L200-C7-N-A-P40-S00**	**M12-12FA-S12-5000-P**	Without contracting brake	**485+I/O**	**C7:PP PN NP NN**
EPG-HP50-050	EPG-HP50-050-0L#-C4024-P40-A00	M12-8FA-S8-5000-P	Without contracting brake	485+I/O	C4:PN
EPG-HP50-050	EPG-HP50-050-0L#-0-N-A-P40-C03	——	Without contracting brake	——	External drive
EPG-HP50-050	EPG-HP50-050-0L#-0-O-A-P40-C03	——	With contracting brake	——	External drive
EPG-HP60-050	EPG-HP60-050-0PB-L200-0-N-A-P40-C03	——	Without contracting brake	——	External drive

Note: The blue bold model is the standard model. To order a model other than the standard model, please contact your regional sales representative.

EPG-HP26-050

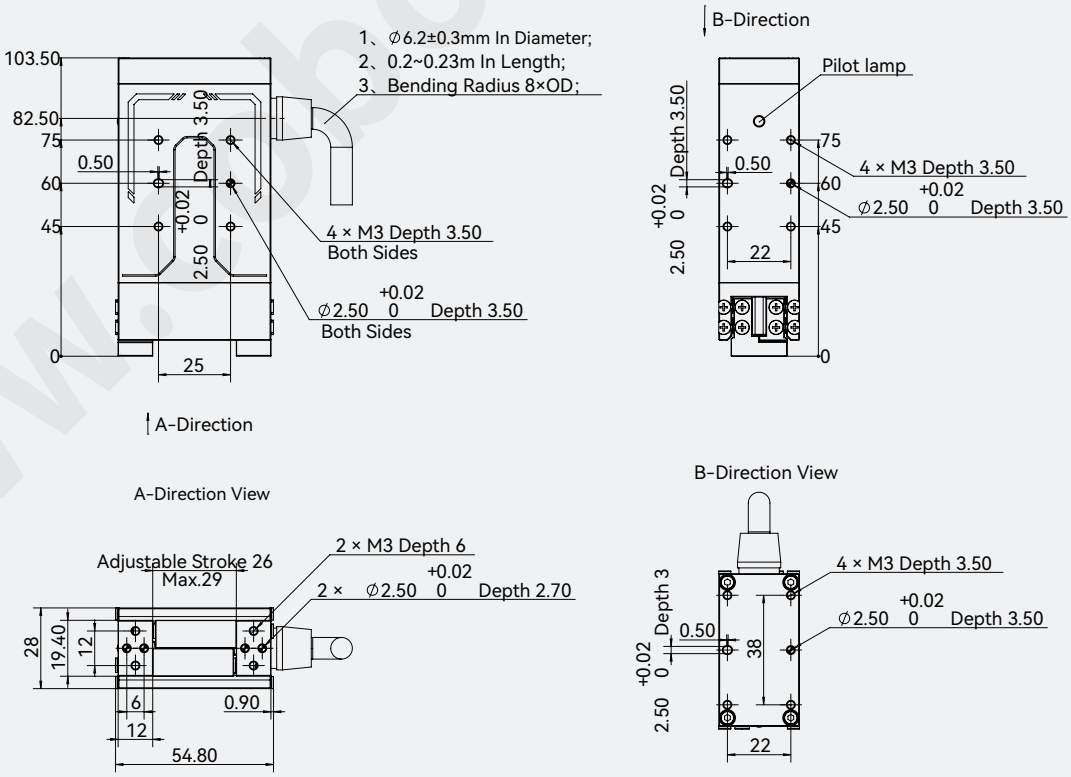
Model: EPG-HP26-050-0PB-L200-C7-N-A-P40-S00

Product parameters

Adjustable stroke	**0-26 mm**	Deadweight	**0.45 Kg**
Single-finger gripping force	**5-50 N**	Rated voltage	**DC 24V±10%**
Open/Close time	**0.65 s**	Maximum current	**0.6 A**
Position repeatability	**±0.02 mm**	Rated current	**0.25 A**
Maximum recommended load	**1 kg**	Communication protocol	**RS 485+I/O**
Drop detection	**Support**	Allowable static load in vertical direction Fz	**200 N**
Working environment	**5~40℃, <85% RH**	Allowable static moment of the slider Mx	**3 N·m**
Running noise	**< 40 dB**	Allowable static moment of the slider My	**2.5 N·m**
IP level	**IP40**	Allowable static moment of the slider Mz	**3.5 N·m**

Note: This product does not include finger clamps

EPG-HP26-050 Dimension drawing



EPG-HP50-050

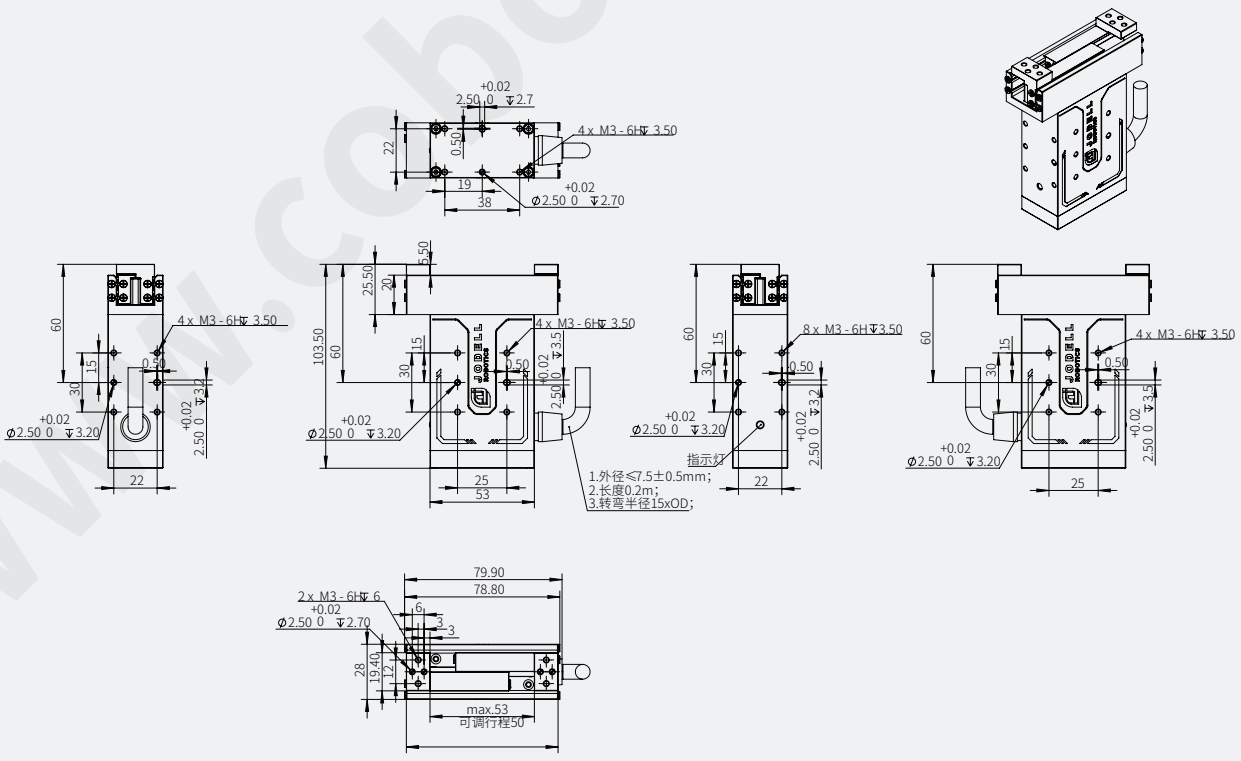
Model: EPG-HP50-050-0PB-L200-C4-N-A-P40-S00

Product parameters

Adjustable stroke	**0-50 mm**	Deadweight	**0.45 kg**
Single-finger gripping force	**5-50 N**	Rated voltage	**DC 24V±10%**
Open/Close time	**0.7 s**	Maximum current	**0.6 A**
Position repeatability	**±0.02 mm**	Rated current	**0.25 A**
Maximum recommended load	**1 kg**	Communication protocol	**RS 485+I/O**
Drop detection	**Support**	Allowable static load in vertical direction Fz	**200 N**
Working environment	**5~40℃, <85% RH**	Allowable static moment of the slider Mx	**3 N·m**
Running noise	**< 40 dB**	Allowable static moment of the slider My	**2.5 N·m**
IP level	**IP40**	Allowable static moment of the slider Mz	**3.5 N·m**

Note: This product does not include finger clamps

EPG-HP50-050 Dimension drawing



EPG-HP60-050

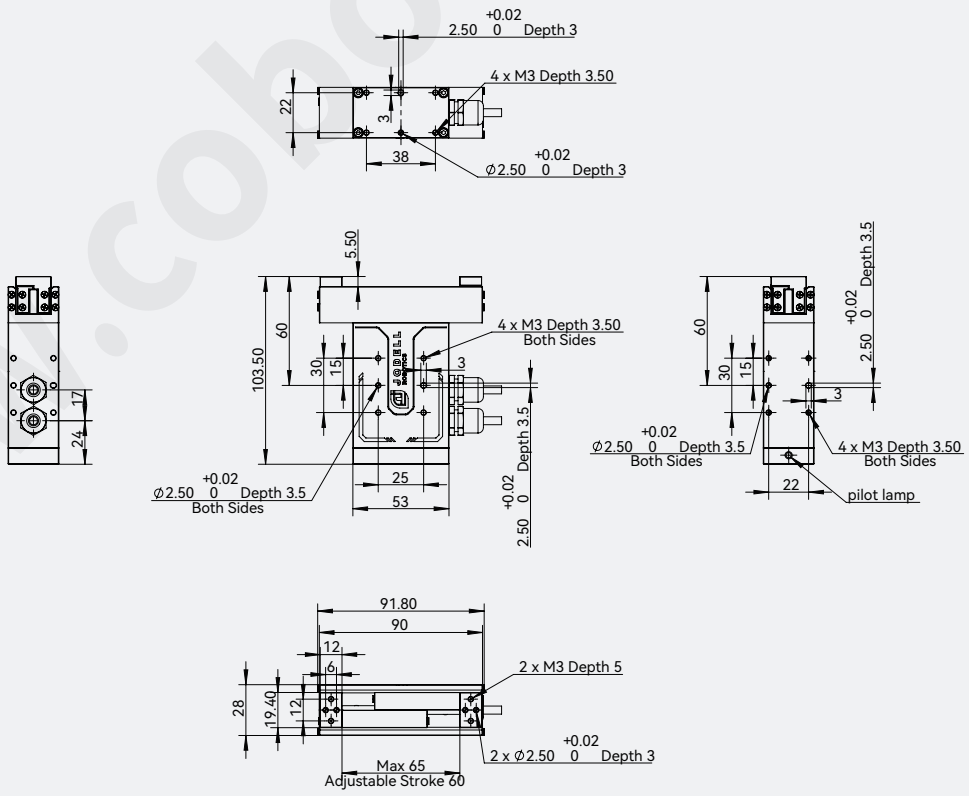
Model: EPG-HP60-050-0L#-O-N-A-P40-C03

Product parameters

Adjustable stroke	**0-60 mm**	Deadweight	**0.56 kg**
Single-finger gripping force	**5-50 N**	Rated voltage	**DC 24V±10%**
Open/Close time	**0.85 s**	Maximum current	**1 A**
Position repeatability	**±0.03 mm**	Rated current	**0.5 A**
Maximum recommended load	**1 kg**	Control mode	**External drive**
Drop detection	**Support**	Allowable static load in vertical direction Fz	**200 N**
Working environment	**5~40℃, <85% RH**	Allowable static moment of the slider Mx	**3 N·m**
Running noise	**< 40 dB**	Allowable static moment of the slider My	**2.5 N·m**
IP level	**IP40**	Allowable static moment of the slider Mz	**3.5 N·m**

Note: This product does not include finger clamps

EPG-HP60-050 Dimension drawing



EPG-L SERIES
INDUSTRIAL ELECTRIC PARALLEL GRIPPER

Product features

- Power outage pressure maintenance, equipped with mechanical self-locking mechanism.
- Compact structure for flexible deployment in small installation space.
- Optimized speed control for high-beat working scenarios at the production end.
- Unilateral gripping force up to 800N to satisfy a variety of gripping scenarios.
- 0-180mm adjustable stroke for flexible grasp of large objects.

Advantages

Application scenarios

Naming Rules

Product line	Stroke		Gripping force	Outlet position	Cable material	Outgoing line direction	Cable fixed end length		Communication mode	Types of encoders		Contracting brake function		Supply voltage		IP level
EPG-L	180	-	800	0	P	R	L0	-	E0	MA	-	O	-	A	-	P20
				0 - Side outlet	P - Pliable	R-Right	L0-Panel aviation plug		E0-EtherCAT	I-Incremental encoder		N-Without contracting brake		A-24V		P20-IP20
						U-Up	L5000-5000mm		PN-Profinet	MA-Multiple turn absolute encoder		O-With contracting brake		B-48V		P40-IP40
									D5-I/O(Not limited)							

Note: The above is an example of naming rules

Optional models

Product line	Product model	Matching cable	Contracting brake function	Communication protocol
EPG-L42-050	EPG-L42-050-2PU-L400-O-N-A-P40-S00	M8-4FD-RJ45-5000-S M12-5FA-S5-5000-P	Without contracting brake	EtherCAT communication
EPG-L80-150	EPG-L80-150-2PU-L200-E0-N-B-P40-S01	M8-4FD-RJ45-5000-S M12-5FA-S5-5000-P	Without contracting brake	EtherCAT communication
EPG-L80-150	**EPG-L80-150-2PU-L200-E0-O-B-P40-S01**	**M8-4FD-RJ45-5000-S M12-5FA-S5-5000-P**	**With contracting brake**	**EtherCAT communication**
EPG-L80-400	**EPG-L80-400-0PR-L0-E0-O-A-P20-S01**	**M8-4FD-RJ45-5000-S M8-3FA-S3-5000-S**	**With contracting brake**	**EtherCAT communication**
EPG-L80-400	EPG-L80-400-0PR-L200-PN-O-A-P40-S01	M8-4FD-RJ45-5000-S M8-3FA-S3-5000-S	With contracting brake	Profinet communication
EPG-L180-800	EPG-L180-800-0PR-L200-E1-MA-O-A-P20-S03	M8-4FD-RJ45-5000-S M8-3FA-S3-5000-S	With contracting brake	EtherCAT/IP communication
EPG-L180-800	EPG-L180-800-0PR-L0-D5-I-O-A-P20-S03	M12-12FA-S12-5000-P M8-3FA-S3-5000-S	With contracting brake	I/O not limited
EPG-L180-800	EPG-L180-800-0PR-LO-PN-MA-O-A-P20-S03	**M8-4FD-RJ45-5000-S M8-3FA-S3-5000-S**	With contracting brake	Profinet communication
EPG-L180-800	EPG-L180-800-0PR-L0-E0-I-O-A-P20-S03		With contracting brake	EtherCAT communication
EPG-L180-800	EPG-L180-800-0PR-L200-PN-MA-O-A-P20-S03		With contracting brake	Profinet communication
EPG-L180-800	**EPG-L180-800-0PR-L200-E0-MA-O-A-P20-S03**		**With contracting brake**	**EtherCAT communication**
EPG-L180-800	EPG-L180-800-0PR-LO-E0-MA-O-A-P20-S03		With contracting brake	EtherCAT communication
EPG-L220-800	EPG-L220-800-0PR-L0-PN-MA-O-A-P20-S00		With contracting brake	Profinet communication

Note: The blue bold model is the standard model. To order a model other than the standard model, please contact your regional sales representative.

EPG-L42-050

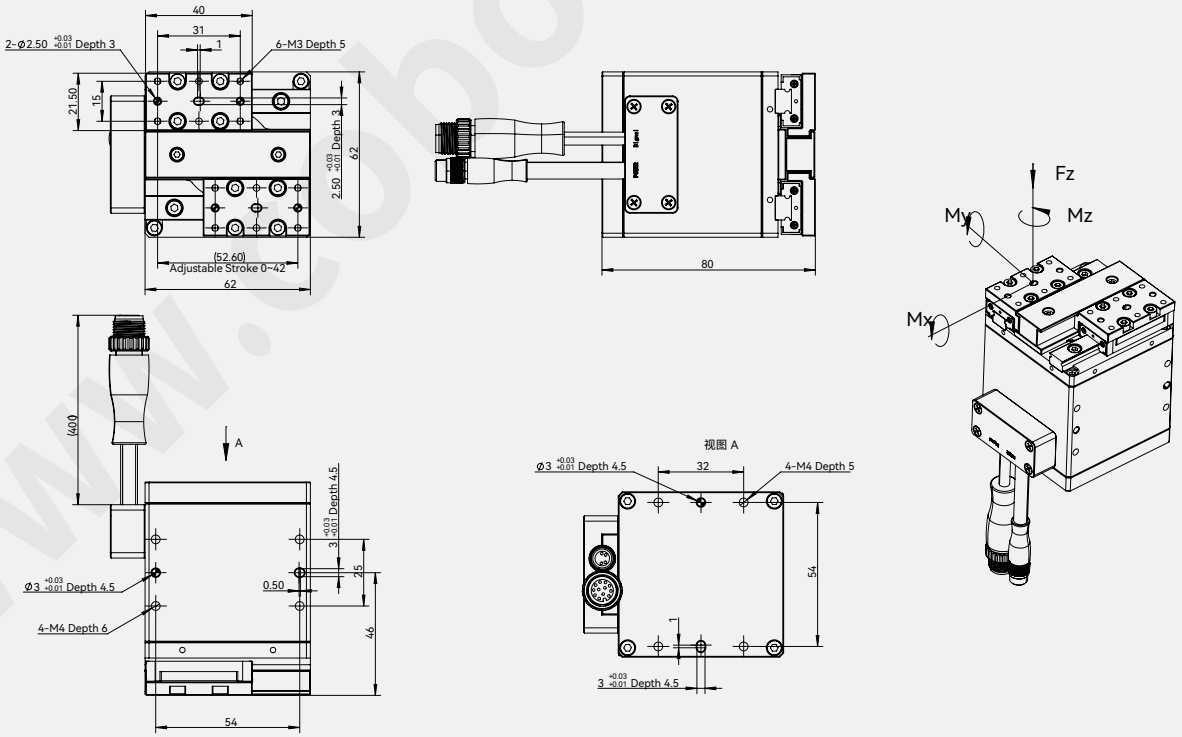
Model: EPG-L42-050-2PU-L400-O-N-A-P40-S00

Product parameters

Adjustable stroke	**0-42mm**	Position repeatability precision	**±0.05mm**
Single finger gripping force	**50N**	Rated voltage	**DC 24V±10%**
Open/Close time	**0.16s**	Rated current	**3A**
Maximum recommended load	**1kg**	Control mode	**External drive**
Drop detection	**Support**	Communication protocol	**EtherCAT**
Usage environment	**5-40℃ <85%RH**	Allowable static load in vertical direction Fz	**382 N**
Deadweight	**0.74kg**	Allowable static moment of the slider Mx	**38 N·m**
IP level	**IP40**	Allowable static moment of the slider My	**36 N·m**
Running noise	**< 40 dB**	Allowable static moment of the slider Mz	**36 N·m**

Note: This product does not include finger clamps

EPG-L42-050 Dimension drawing



EPG-L80-150

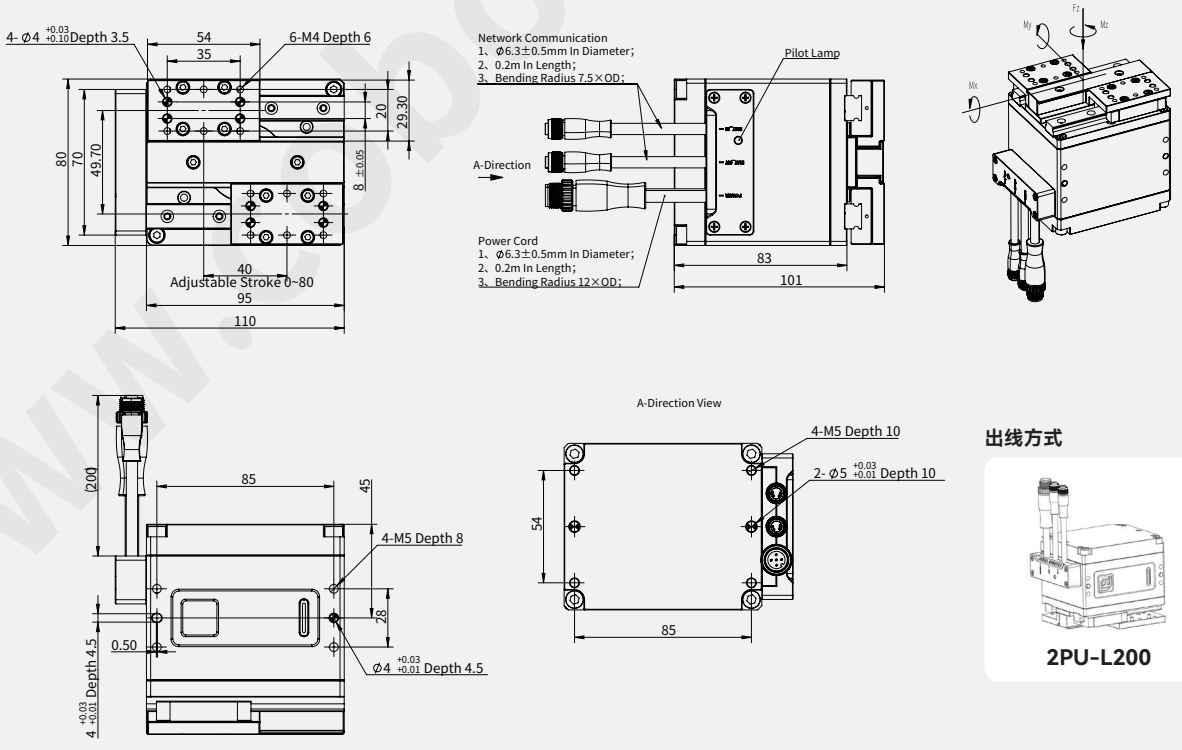
Model: EPG-L80-150-2PU-L200-E0-O-B-P40-S00

Product parameters

Adjustable stroke	**0-80mm**	Position repeatability precision	**±0.02mm**
Single finger gripping force	**40-150N**	Rated voltage	**DC 48V±10%**
Open/Close time	**0.53s**	Rated current	**5A**
Maximum recommended load	**3kg**	Maximum current	**7A**
Drop detection	**Support**	Communication protocol	**EtherCAT**
Power outage pressure maintenance	**Support**	Allowable static load in vertical direction Fz	**382 N**
Usage environment	**5-40°C <85%RH**	Allowable static moment of the slider Mx	**38 N·m**
Deadweight	**1.5kg**	Allowable static moment of the slider My	**36 N·m**
IP level	**IP40**	Allowable static moment of the slider Mz	**36 N·m**

Note: This product does not include finger clamps

EPG-L80-150 Dimension drawing



出线方式

2PU-L200

EPG-L80-400

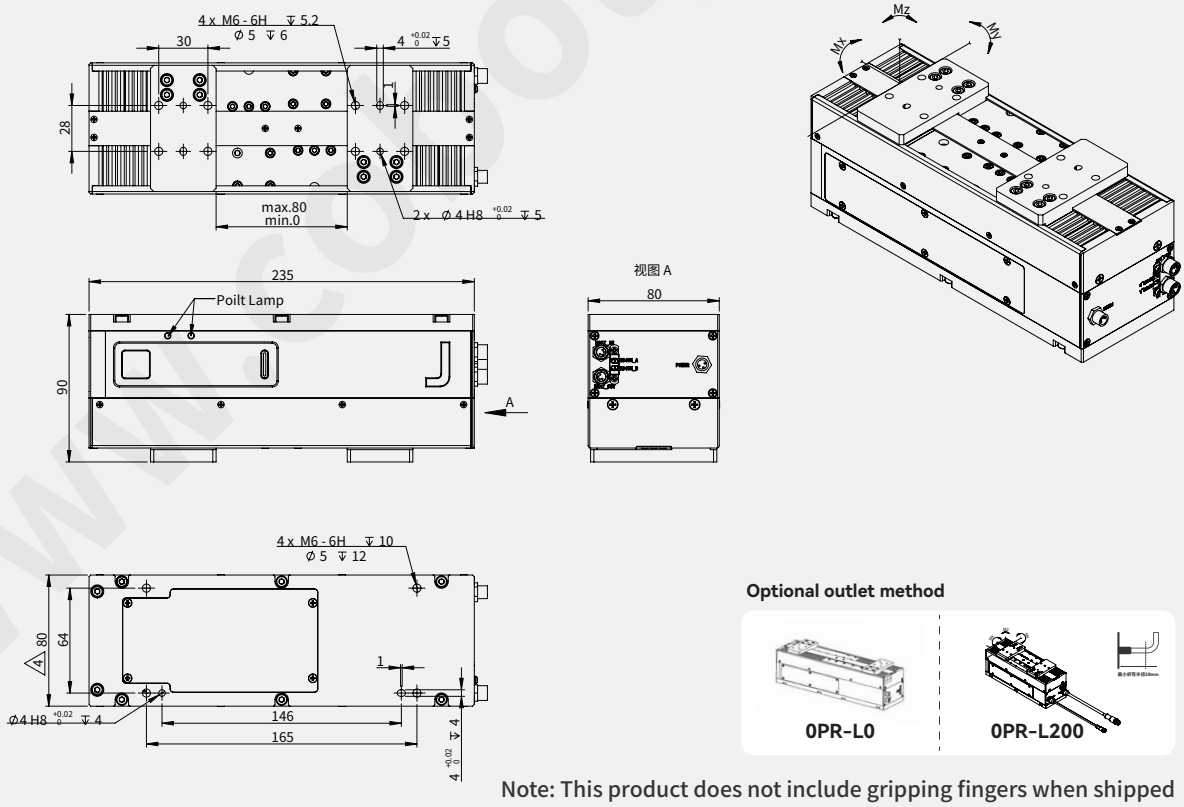
Model: EPG-L80-400-0PR-L0-E0-O-A-P20-S01

Product parameters

Adjustable stroke	**0-80mm**	Position repeatability precision	**±0.05mm**
Single finger gripping force	**40-400N**	Rated voltage	**DC 24V±10%**
Open/Close time	**1s/1.1s**	Rated current	**1A**
Maximum recommended load	**6kg**	Maximum current	**2A**
Drop detection	**Support**	Communication protocol	**EtherCAT**
Power outage pressure maintenance	**Support**	Allowable static load in vertical direction Fz	**1000 N**
Usage environment	**5-40°C <85%RH**	Allowable static moment of the slider Mx	**76.44 N·m**
Deadweight	**3kg**	Allowable static moment of the slider My	**160 N·m**
IP level	**IP20**	Allowable static moment of the slider Mz	**160 N·m**

Note: This product does not include finger clamps

EPG-L80-400 Dimension drawing



Optional outlet method

Note: This product does not include gripping fingers when shipped

EPG-L180-800

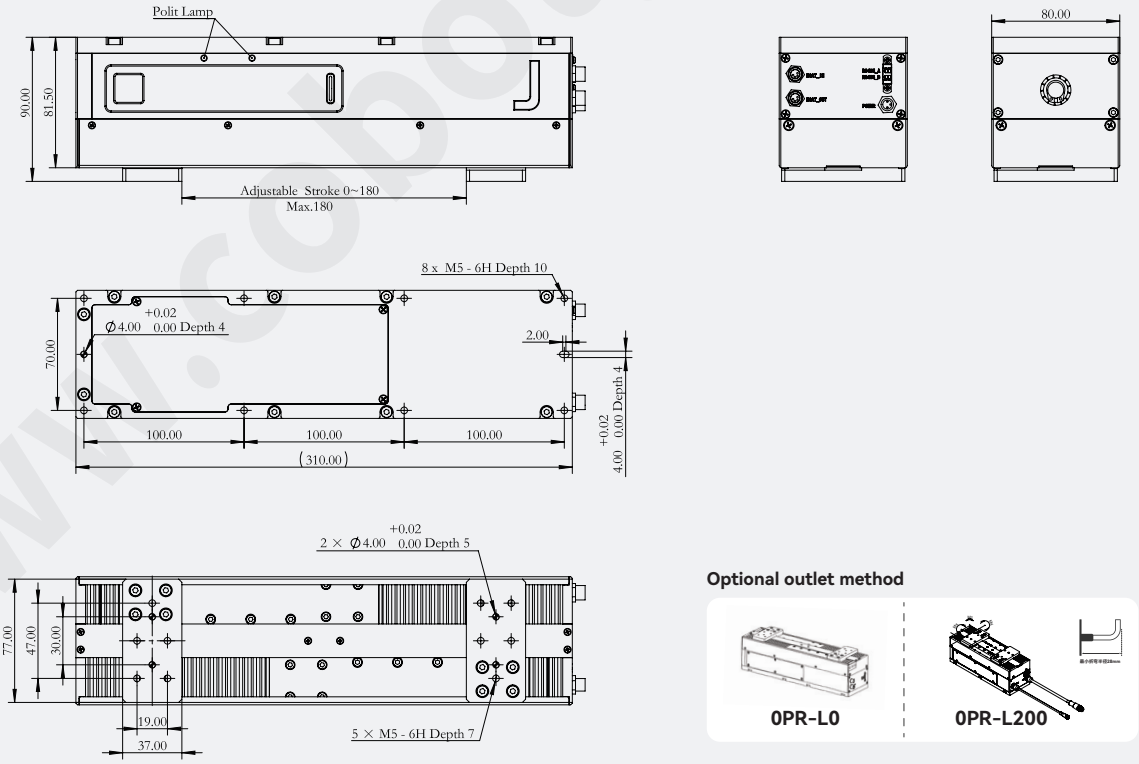
Model: EPG-L180-800-0PR-L0-E0-O-A-P20-S01

Product parameters

Adjustable stroke	**0-180mm**	Position repeatability precision	**±0.05mm**
Single finger gripping force	**100-800N**	Rated voltage	**DC 24V±10%**
Open/Close time	**2s**	Rated current	**2A**
Maximum recommended load	**12kg**	Maximum current	**5A**
Drop detection	**Support**	Communication protocol	**EtherCAT**
Power outage pressure maintenance	**Support**	Allowable static load in vertical direction Fz	**1000 N**
Usage environment	**5-40°C <85%RH**	Allowable static moment of the slider Mx	**76.44 N·m**
Deadweight	**4kg**	Allowable static moment of the slider My	**320 N·m**
IP level	**IP20**	Allowable static moment of the slider Mz	**320 N·m**

Note: This product does not include gripping fingers when shipped

EPG-L180-800 Dimension drawing



Optional outlet method

Note: This product does not include gripping fingers when shipped

EPG-L220-800

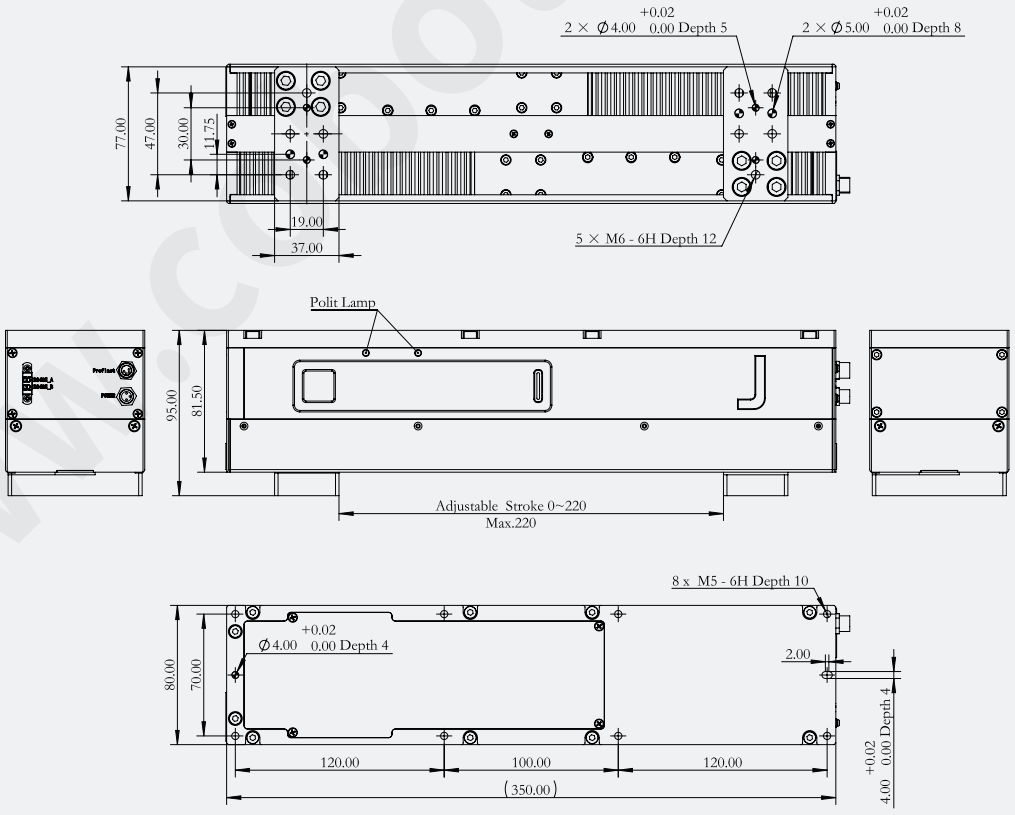
Model: EPG-L220-800-0PR-L0-PN-MA-O-A-P20-S01

Product parameters

Adjustable stroke	**0-220mm**	Position repeatability precision	**±0.05mm**
Single finger gripping force	**100-800N**	Rated voltage	**DC 24V±10%**
Open/Close time	**2s**	Rated current	**1A**
Maximum recommended load	**12kg**	Maximum current	**2A**
Drop detection	**Support**	Communication protocol	**Profinet**
Power outage pressure maintenance	**Support**	Allowable static load in vertical direction Fz	**1000 N**
Usage environment	**5-40°C <85%RH**	Allowable static moment of the slider Mx	**76.44 N·m**
Deadweight	**4.8kg**	Allowable static moment of the slider My	**320 N·m**
IP level	**IP20**	Allowable static moment of the slider Mz	**320 N·m**

Note: This product does not include gripping fingers when shipped

EPG-L220-800 Dimension drawing



EPG-T SERIES
ULTRA-THIN ELECTRIC PARALLEL GRIPPER CLAWS

Product features

- Power outage pressure maintenance, equipped with mechanical self-locking mechanism.
- Compact structure for flexible deployment in small installation space.
- Optimized speed control for high-beat working scenarios at the production end.
- Unilateral gripping force up to 1200N to satisfy a variety of gripping scenarios.
- 0-250mm adjustable stroke for flexible grasp of large objects.

Advantages

Application scenarios

Naming Rules

Product line	Stroke		Gripping force	Outlet position	Cable fixed end length		Communication mode		Contracting brake function		Supply voltage		IP level
EPG-T	180	-	800	0	L0	-	E0	-	O	-	A	-	P20
				0 - Side outlet	L0-Panel aviation plug		E0-EtherCAT PN-Profinet		N-Without contracting brake O-With contracting brake		A-24V B-48V		P20-IP20 P40-IP40

Note: The above is an example of naming rules

Optional models

PRODUCT LINE	PRODUCT MODEL	GRIPPING FORCE	MOUNTING HOLE SPACING	NUMBER OF MOUNTING HOLES	TOTAL LENGTH
EPG-T60-800	EPG-T60-800-0L0-E0-O-A-P20-S00	60mm	60mm	6	232mm
EPG-T100-800	EPG-T100-800-0L0-E0-O-A-P20-S00	100mm	80mm	6	272mm
EPG-T180-800	**EPG-T100-800-0L0-E0-O-A-P20-S00**	**180mm**	**80mm**	**8**	**352mm**
EPG-T220-800	**EPG-T220-800-0L0-E0-O-A-P20-S00**	**220mm**	**70mm**	**10**	**392mm**
EPG-T250-800	EPG-T250-800-0L0-PN-O-A-P20-S00	250mm	50mm	10	412mm

EPG-TXX-800

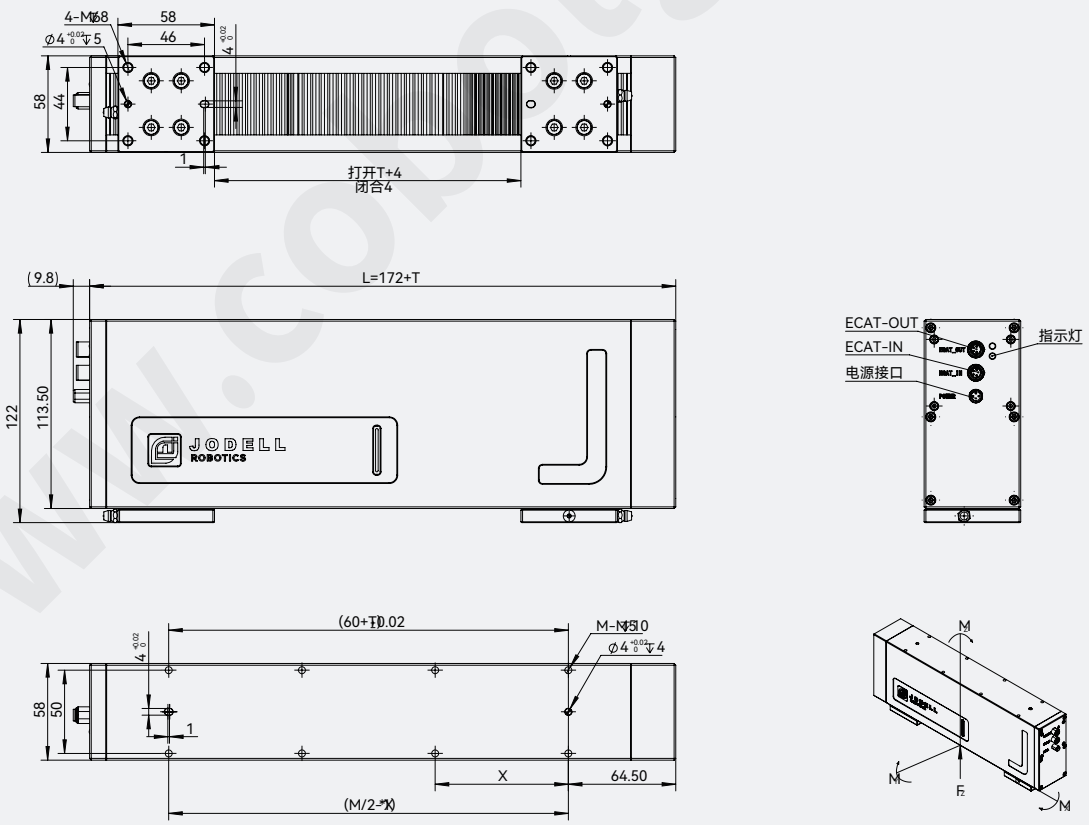
Model: EPG-TXX-800-0L0-E0-O-A-P20-S00

Product parameters

Adjustable stroke	Optional models	Position repeatability precision	±0.02mm
Single finger gripping force	Maximum force 800N	Rated voltage	DC 24V±10%
Open/Close time	consult the sales department	Noise	<50dB
Maximum recommended load	8kg	Communication protocol	EtherCAT
Drop detection	Support	Allowable static load in vertical direction Fz	3000 N
Power outage pressure maintenance	Support	Allowable static moment of the slider Mx	60 N·m
Usage environment	5-40℃ <85%RH	Allowable static moment of the slider My	100 N·m
Deadweight	5kg（T180）	Allowable static moment of the slider Mz	60 N·m
IP level	IP20		

Note: This product does not include gripping fingers when shipped

EPG-TXX-800 Dimension drawing



RG SERIES
ROBOT ELECTRIC GRIPPER

Product features

- Standard machine interface
- Adjustable and controllable force and position
- Power outage pressure maintenance
- Grab feedback and drop detection

Application scenarios

Inspection | Packaging | Loading and unloading | Stacking | Flexible assembly | Process conversion

Naming rule

Product line	Stroke		Gripping force		Outlet position	Cable fixed end length		Communication mode		Contracting brake		Supply voltage		IP level
RG	52	–	050	–	0	L#	–	C4	–	O	–	024	–	P54
					0 - Side outlet	L# - 200 mm by default		C0-485 C4-485+I/O(PN)		O - With contracting brake		024-24V		P54-IP54 P65-IP65

Note: The above is an example of naming rules

RG52-050

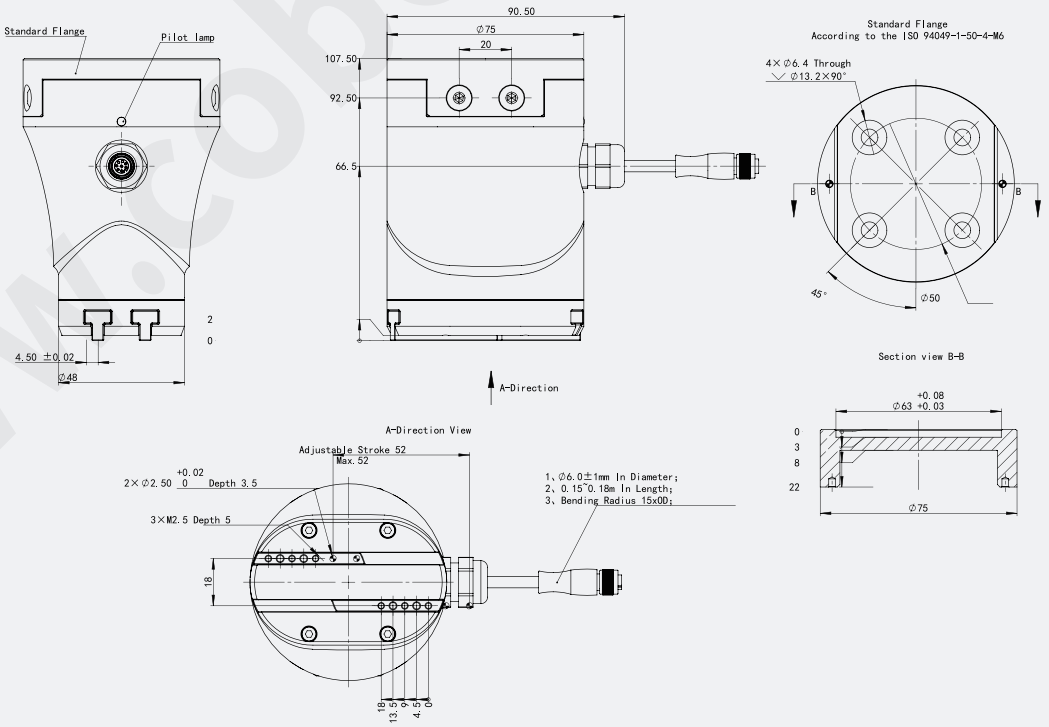
Model: RG52-050-0L#-C4-O-024-P54-A00

Product parameters

Adjustable stroke	**0-52 mm**	Rated voltage	**DC 24V±10%**
Single finger gripping force	**3-50 N**	Maximum current	**0.8 A**
Open/Close time	**0.65 s**	Rated current	**0.5 A**
Position repeatability precision	**±0.02 mm**	Communication protocol	**Modbus RTU(RS 485)**
Maximum recommended load	**1 kg**		**Digital I/O**
Drop detection	**Support**	Compliant with international standards	**CE、RoHS**
Power outage pressure maintenance	**Support**	Allowable static load in vertical direction Fz	**200 N**
Usage environment	**5~40℃，<85% RH**	Allowable static moment of the slider Mx	**2.5 N·m**
Running noise	**＜40 dB**	Allowable static moment of the slider My	**2 N·m**
Deadweight	**0.75 Kg**	Allowable static moment of the slider Mz	**2.8 N·m**
IP level	**IP54**		

Note: This product does not include gripping fingers when shipped

RG52-050 Dimension drawing



RG75-300

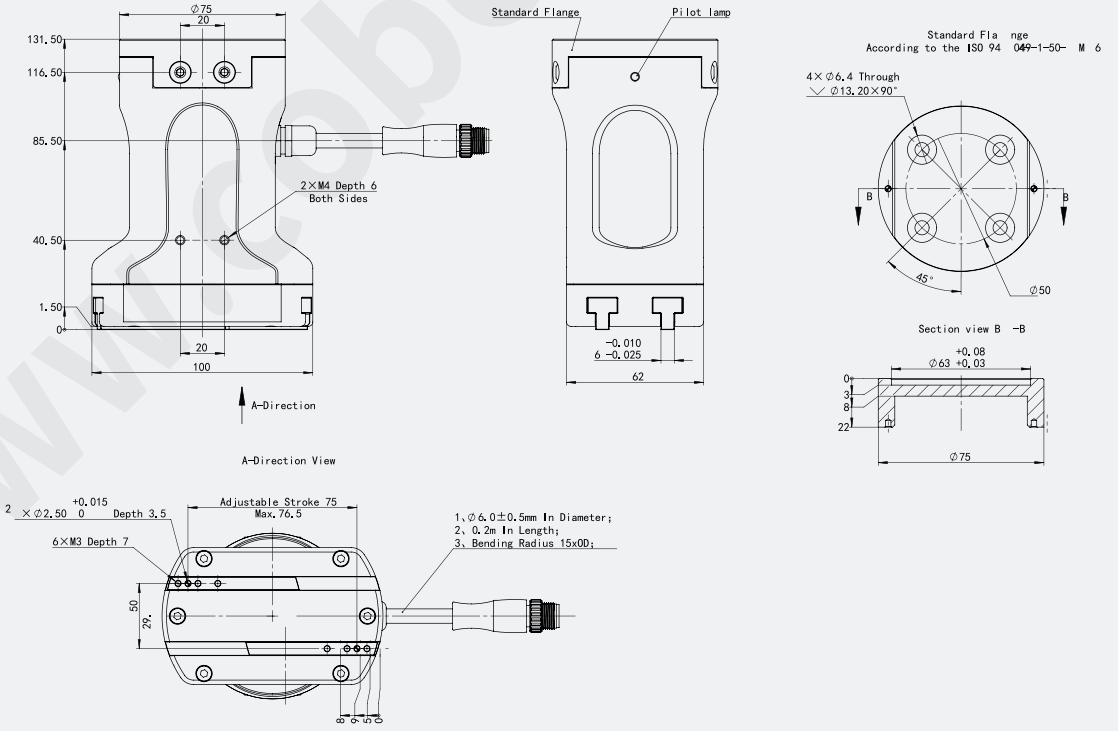
Model: RG75-300-0L#-C0-O-024-P65-A00

Product parameters

Adjustable stroke	**0-75 mm**	Rated voltage	**DC 24V±10%**
Single finger gripping force	**40-300 N**	Maximum current	**1.5 A**
Open/Close time	**0.55 s**	Rated current	**0.55 A**
Position repeatability precision	**±0.02 mm**	Communication protocol	**Modbus RTU(RS 485)**
Maximum recommended load	**6 kg**	Compliant with international standards	**CE、RoHS**
Drop detection	**Support**	Allowable static load in vertical direction Fz	**400 N**
Power outage pressure maintenance	**Support**	Allowable static moment of the slider Mx	**8 N·m**
Usage environment	**5~40℃, < 85%RH**	Allowable static moment of the slider My	**8 N·m**
Running noise	**<40 dB**	Allowable static moment of the slider Mz	**8 N·m**
Deadweight	**1.5 kg**	IP level	**IP65**

Note: This product does not include gripping fingers when shipped

RG75-300 Dimension drawing



ERG SERIES
ELECTRIC ROTARY GRIPPER

Product features

- Integrated drive and control, networking applications
- Infinite forward and backward rotation
- Adjustable and controllable force, position and rotation angle
- Grab feedback and drop detection

Advantages

Grab feedback

Multi-sided installation

Integrated drive and control

Infinite forward and backward rotation

Precise rotary positioning

Application scenarios

3C electronics

Medical devices

Precision manufacturing

Electric appliance

Education

Automobiles and related

Naming Rules

Product line	Stroke	Gripping force	Outlet position	Cable material	Outgoing line direction	Cable fixed end length	Communication mode	Contracting brake function	Supply voltage	IP level
ERG	32	150	1	P	U	L200	C0	N	A	P40
			1 - Bottom outlet	P - Pliable	U-Up	L200-200mm	C0-485 C7-485+I/O(versatile) E0-EtherCAT	N - Without contracting brake	A-24V	P40-IP40

Note: The above is an example of naming rules

Optional models

Product line	Product model	Matching cable	Communication protocol	Note
ERG32-150	ERG32-150-1PU-L200-C0-N-A-P40-S00	M12-5FA-S5-5000-P	485 Communication	Standard models
ERG32-150T	ERG32-150T-1PU-L200-C0-N-A-P40-S00	M12-5FA-S5-5000-P	485 Communication	Standard models
ERG32-150(E0)	ERG32-150-1PU-L200-E0-N-A-P40-S00	M12-5FA-S5-5000-P	EtherCAT Communication	Standard models
ERG08-023	ERG08-023-1PU-L200-C0-N-A-P40-S00	M12-5FA-S5-5000-P	485 Communication	Standard models
ERG08-030	ERG08-030-1PU-L200-C7-N-A-P40-S00	M12-12FA-S12-5000-P	485+I/O(C7:PP PN NP NN)	Standard models

Note: The blue bold model is the standard model. To order a model other than the standard model, please contact your regional sales representative.

ERG08-023

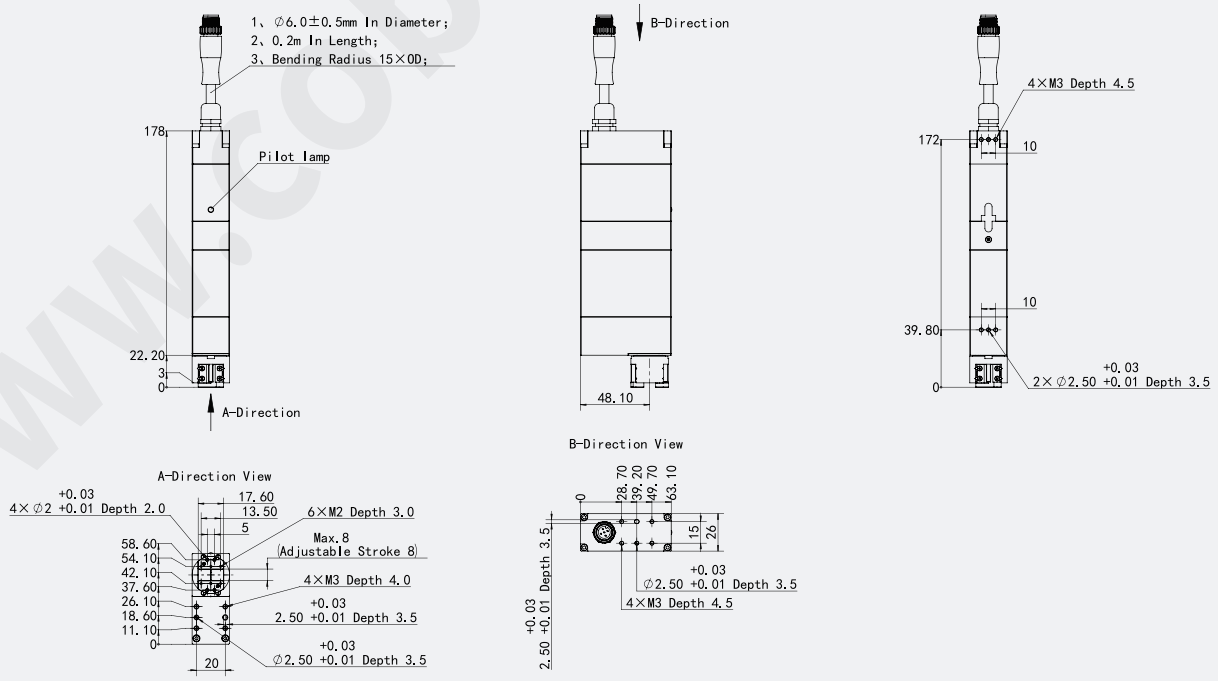
MODEL: ERG08-023-1PU-L200-C0-N-A-P40-S00

Product parameters

Adjustable stroke	**0-8 mm**	Running noise	**< 70 dB**
Single finger gripping force	**4-23 N**	Deadweight	**0.6 kg**
Open/Close time	**0.3 s**	IP level	**IP40**
Peak torque	**0.3 N·m**	Rated voltage	**DC 24V±10%**
Rated torque	**0.12 N·m**	Maximum current	**2 A**
Rotation angle	**Infinite rotation**	Rated current	**0.4A**
Maximum rotation speed	**1500°/s**	Communication protocol	**Modbus RTU(RS485)**
Maximum allowable inertia	**100 kg/mm^2**	Allowable static load in vertical direction Fz	**100 N**
Gripping repeatability precision	**±0.02 mm**	Allowable static moment of the slider Mx	**1.5 N·m**
Rotation repeatability precision	**±0.5°**	Allowable static moment of the slider My	**1.5 N·m**
Maximum recommended load	**0.3 kg**	Allowable static moment of the slider Mz	**1.5 N·m**
Drop detection	**Support**	Usage environment	**5~40℃, <85% RH**

Note: This product does not include gripping fingers when shipped

ERG08-023 Dimension drawing



ERG08-030

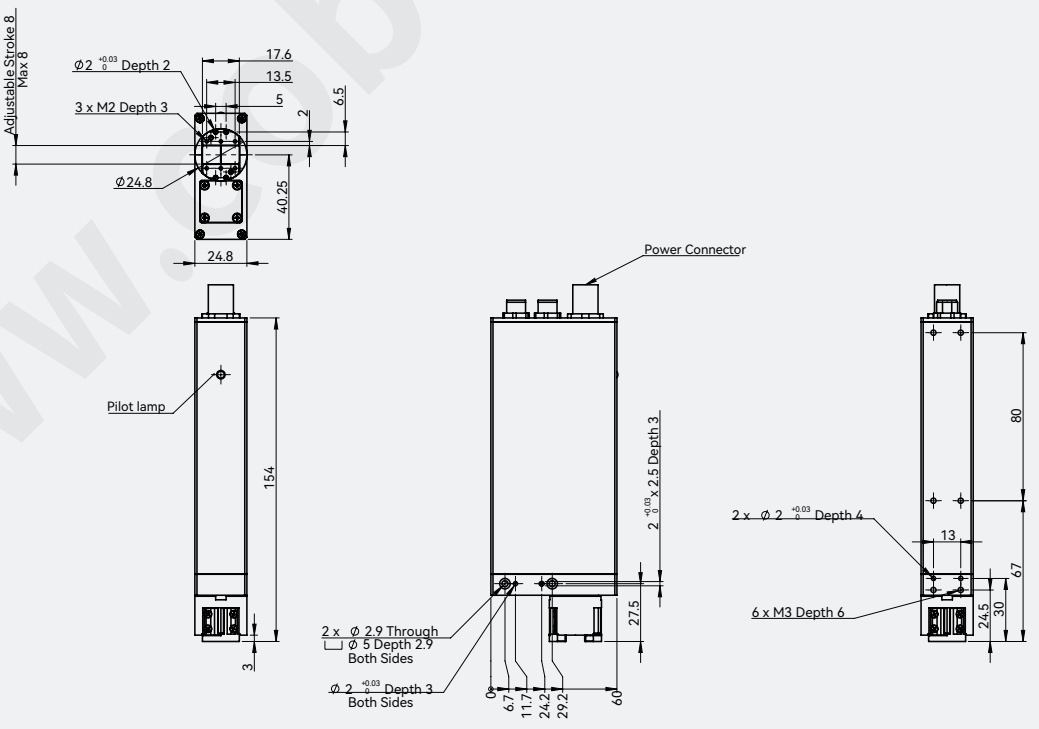
MODEL: ERG08-030-1PU-L200-C7-N-A-P40-S00

Product parameters

Adjustable stroke	**0-8 mm**	Drop detection	**Support**
Single finger gripping force	**4-30 N**	Running noise	**< 70 dB**
Open/Close time	**0.5 s**	Deadweight	**0.6 kg**
Peak torque	**0.1 N**	IP level	**IP40**
Rated torque	**0.05 N·m**	Rated voltage	**DC 24V±10%**
Rotation angle	**Infinite rotation**	Maximum current	**2A**
Maximum rotation speed	**720°/s**	Rated current	**1A**
Maximum allowable inertia	**80 kg/mm^2**	Communication protocol	**Modbus RTU(RS485)**
Gripping repeatability precision	**±0.02 mm**	Allowable static load in vertical direction Fz	**150N**
Rotation repeatability precision	**±0.5°**	Allowable static moment of the slider Mx	**1.5N.m**
Maximum recommended load	**0.35 kg**	Allowable static moment of the slider My	**1.5N.m**
Usage environment	**5~40℃, < 85% RH**	Allowable static moment of the slider Mz	**1.5N.m**

Note: This product does not include gripping fingers when shipped

ERG08-030 Dimension drawing



ERG32-150

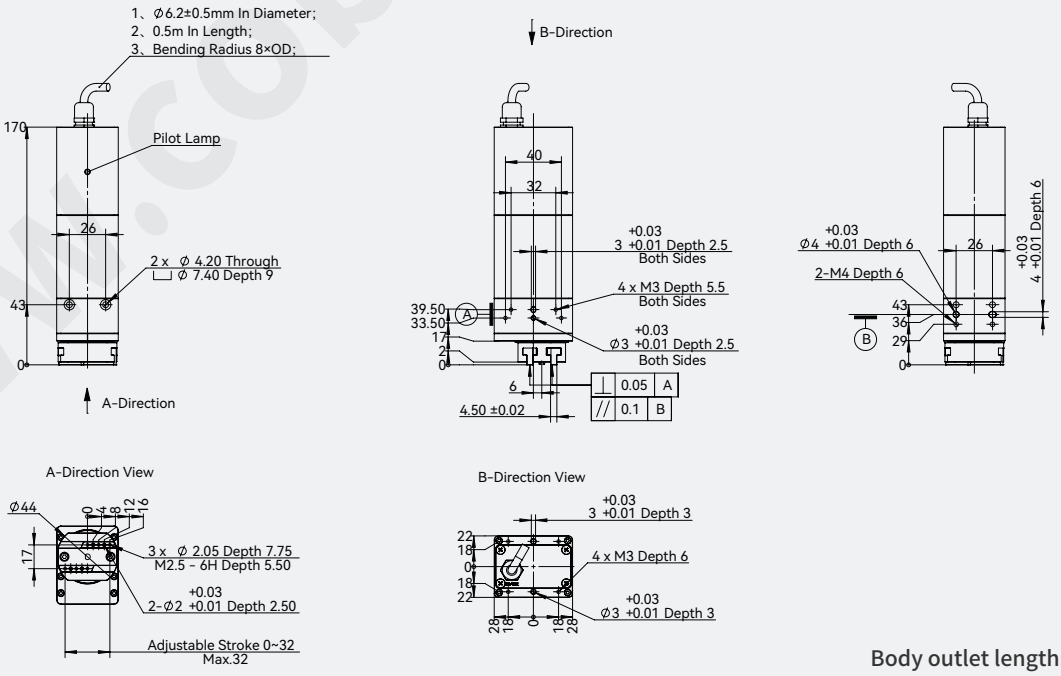
Model: ERG32-150-1PU-L200-C0-N-A-P40-S00

Product parameters

Adjustable stroke	**0-32 mm**	Running noise	**< 70 dB**
Single finger gripping force	**40~100 N**	Deadweight	**0.7 kg**
Open/Close time	**0.5 s**	IP level	**IP40**
Peak torque	**1 N·m**	Rated voltage	**DC 24V±10%**
Rated torque	**0.2 N·m**	Maximum current	**4 A**
Rotation angle	**Infinite rotation**	Rated current	**0.5 A**
Maximum rotation speed	**1350°/s**	Communication protocol	**Modbus RTU(RS 485)**
Maximum allowable inertia	**200 kg/mm²**	Compliant with international standards	**CE、RoHS**
Gripping repeatability precision	**±0.02 mm**	Allowable static load in vertical direction Fz	**200 N**
Rotation repeatability precision	**±0.5°**	Allowable static moment of the slider Mx	**2 N·m**
Maximum recommended load	**1.5 Kg**	Allowable static moment of the slider My	**2 N·m**
Drop detection	**Support**	Allowable static moment of the slider Mz	**2 N·m**
Usage environment	**5~40℃, < 85% RH**		

Note: This product does not include gripping fingers when shipped

ERG32-150 Dimension drawing



Body outlet length: 500mm

ERG32-150(E0)

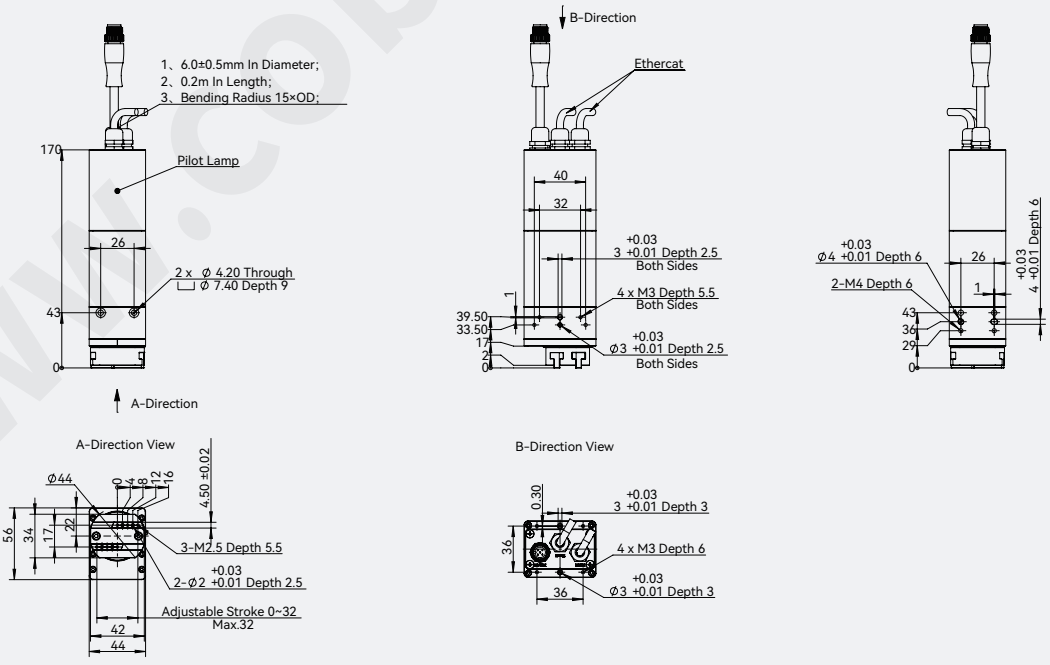
Model: ERG32-150-1PU-L200-E0-N-A-P40-S00

Product parameters

Adjustable stroke	**0-32 mm**	Running noise	**< 70 dB**
Single finger gripping force	**40~100 N**	Deadweight	**0.7 kg**
Open/Close time	**0.5 s**	IP level	**IP40**
Peak torque	**1 N·m**	Rated voltage	**DC 24V±10%**
Rated torque	**0.2 N·m**	Maximum current	**4 A**
Rotation angle	**Infinite rotation**	Rated current	**0.5 A**
Maximum rotation speed	**1350°/s**	Communication protocol	**EtherCAT**
Maximum allowable inertia	**200 kg/mm²**	Allowable static load in vertical direction Fz	**200 N**
Gripping repeatability precision	**±0.02 mm**	Allowable static moment of the slider Mx	**2 N·m**
Rotation repeatability precision	**±0.5°**	Allowable static moment of the slider My	**2 N·m**
Maximum recommended load	**1.5 Kg**	Allowable static moment of the slider Mz	**2 N·m**
Drop detection	**Support**		
Usage environment	**5~40℃, < 85% RH**		

Note: This product does not include gripping fingers when shipped

ERG32-150(E0)Dimension drawing



ERG32-150T

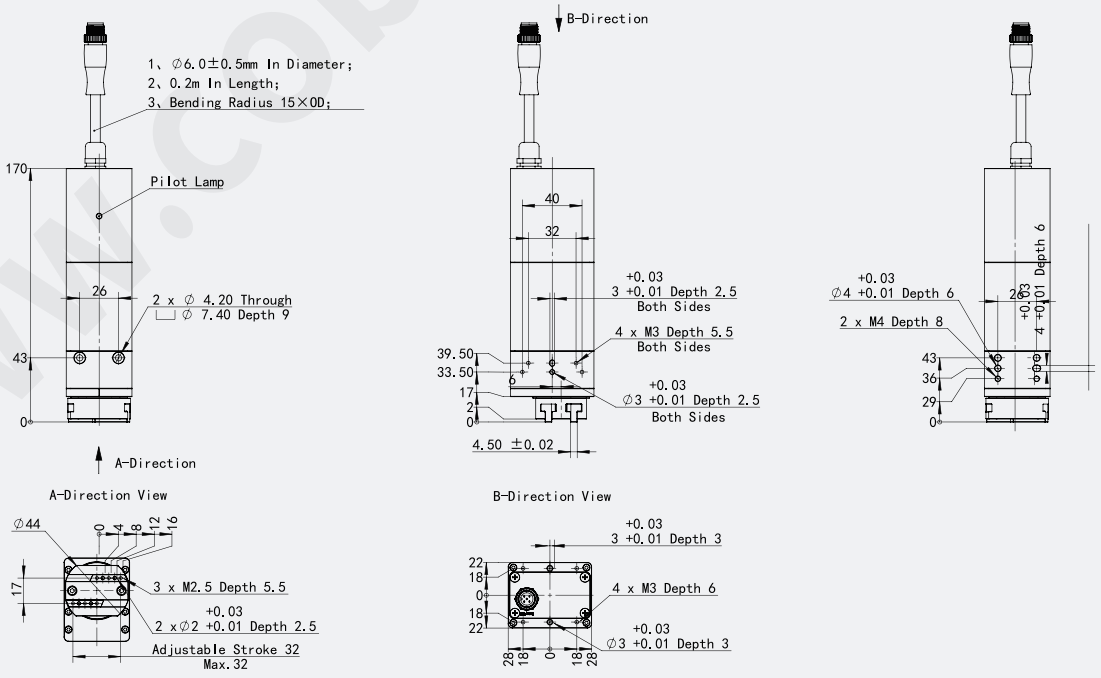
Model: ERG32-150T-1PU-L200-C0-N-A-P40-S00

Product parameters

Adjustable stroke	**0-32 mm**	Running noise	**<70 dB**
Single finger gripping force	**40~100 N**	Deadweight	**0.7 Kg**
Open/Close time	**0.5 s**	IP level	**IP40**
Peak torque	**1.5 N·m**	Rated voltage	**DC 24V±10%**
Rated torque	**0.3 N·m**	Maximum current	**4 A**
Rotation angle	**Infinite rotation**	Rated current	**0.6 A**
Maximum rotation speed	**1000°/s**	Communication protocol	**Modbus RTU(RS 485)**
Maximum allowable inertia	**200 kg/mm²**	Compliant with international standards	**CE、RoHS**
Gripping repeatability precision	**±0.02 mm**	Allowable static load in vertical direction Fz	**200 N**
Rotation repeatability precision	**±0.5°**	Allowable static moment of the slider Mx	**2 N·m**
Maximum recommended load	**1.5 Kg**	Allowable static moment of the slider My	**2 N·m**
Drop detection	**Support**	Allowable static moment of the slider Mz	**2 N·m**
Usage environment	**5~40℃, < 85%RH**		

Note: This product does not include gripping fingers when shipped

ERG32-150T Dimension drawing



ERG-HP SERIES
HIGH-PRECISION ELECTRIC ROTARY GRIPPER

Product features

- Integrated drive and control, networking applications
- Infinite forward and backward rotation
- Adjustable and controllable force, position and rotation angle
- Intelligent feedback, and micron level rotary positioning

Advantages

Grab feedback

Multi-sided installation

Integrated drive and control

Infinite forward and backward rotation

Precise rotary positioning

Application scenarios

3C ELECTRONICS

MEDICAL DEVICES

PRECISION MANUFACTURING

ELECTRIC APPLIANCE

EDUCATION

AUTOMOBILES AND RELATED

Naming Rules

Product line	Stroke		Gripping force		Outlet position	Cable material	Outgoing line direction		Cable fixed end length		Communication mode		Contracting brake function		Supply voltage		IP level
ERG-HP	16	–	023	–	1	P	U	–	L0	–	E0	–	N	–	A	–	P40
					1 - Bottom outlet	P - Pliable	U-Up		L0 - Panel aviation plug (male)		E0-EtherCAT		N - Without contracting brake		A-24V		P40-IP40

Note: The above is an example of naming rules

Optional models

Product line	Product model	Matching cable	Communication protocol	Note
ERG-HP16-023	ERG-HP16-023-1PU-L0-E0-N-A-P40-S00	M8-3MA-S3-5000-S M8-4MD-RJ45-5000-S	EtherCAT	Standard models
ERG-HP20-023	ERG-HP20-023-1PU-L0-E0-N-A-P40-S01	M8-3MA-S3-5000-S M8-4MD-RJ45-5000-S	EtherCAT	Standard models

ERG-HP16-023

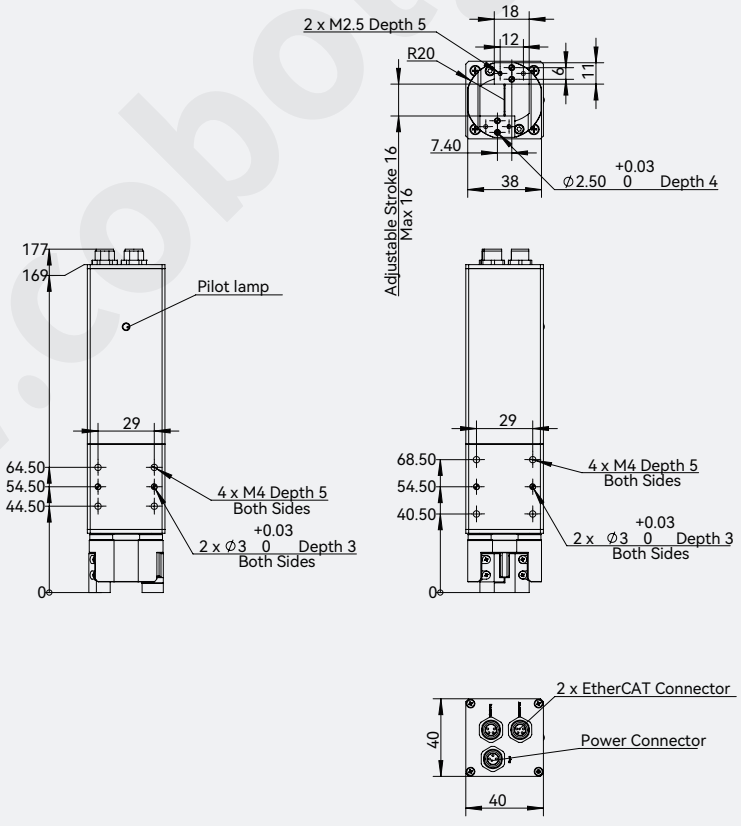
Model: ERG-HP16-023-1PU-L0-E0-N-A-P40-S00

Product parameters

Full stroke	**16 mm**	Dimensions	**177mm*40mm*40mm**
Open/Close time	**0.3 s**	Deadweight	**0.65kg**
Single finger gripping force	**8~23 N**	Communication protocol	**EtherCAT**
Rated torque	**0.1 N·m**	Rotary backlash	**Zero backlash**
Peak torque	**0.25 N·m**	Rotation positioning repeatability precision	**±0.02°**
Rotation range	**Infinite rotation**	Opening/closing position repeatability precision	**±0.02mm**
Rotation speed	**9-2500°/s**	Allowable static moment of the slider Mx	**5N·m**
Maximum recommended load	**0.35 kg**	Allowable static moment of the slider My	**3N·m**
Drive and control mode	**Integrated drive and control**	Allowable static moment of the slider Mz	**2N·m**

Note: This product does not include gripping fingers when shipped

ERG-HP16-023 Dimension drawing



ERG-HP20-023

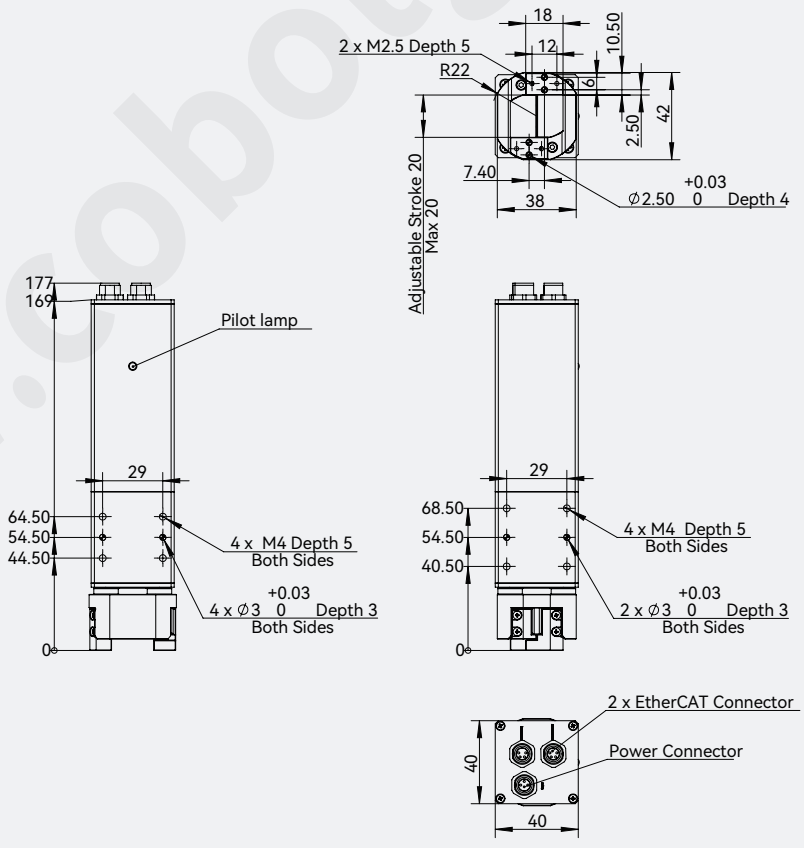
Model: ERG-HP20-023-1PU-L0-E0-N-A-P40-S01

Product parameters

Full stroke	**20mm**	Dimensions	**177mm*40mm*40mm**
Open/Close time	**0.3s**	Deadweight	**0.65kg**
Single finger gripping force	**8-23N**	Communication protocol	**EtherCAT**
Rated torque	**0.1N·m**	Rotary backlash	**Zero backlash**
Peak torque	**0.25N·m**	Rotation positioning repeatability precision	**±0.02°**
Rotation range	**Infinite rotation**	Opening/closing position repeatability precision	**±0.02mm**
Rotation speed	**9-2500°/s**	Allowable static moment of the slider Mx	**5N·m**
Maximum recommended load	**0.35kg**	Allowable static moment of the slider My	**3N·m**
Drive and control mode	**Integrated drive and control**	Allowable static moment of the slider Mz	**2N·m**

Note: This product does not include gripping fingers when shipped

ERG-HP20-023 Dimension drawing



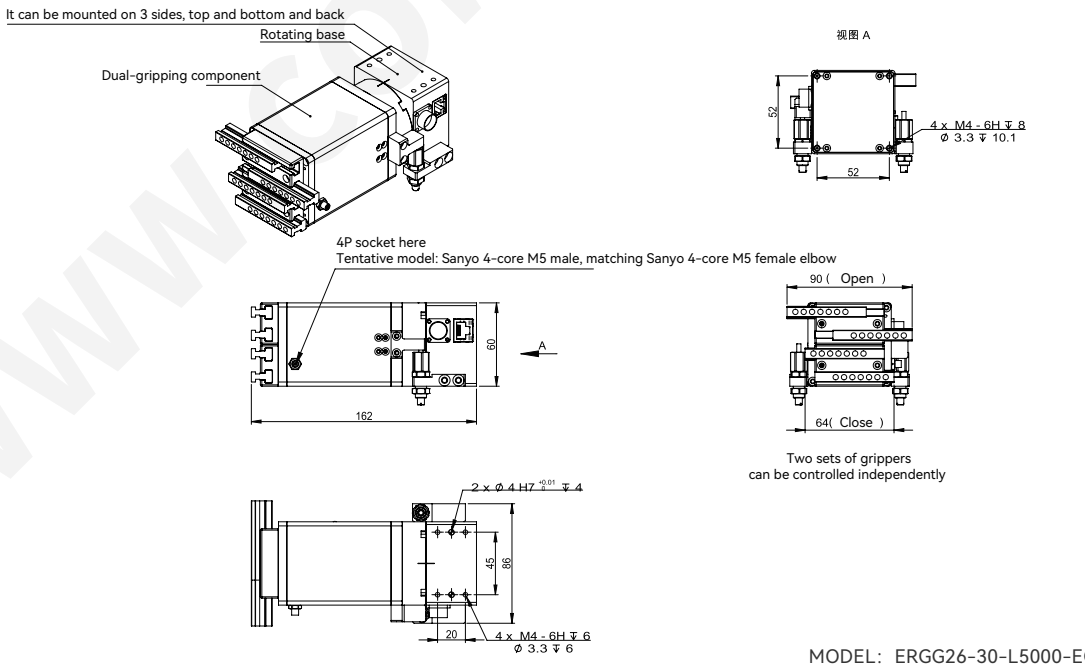
ERGG SERIES
DUAL-GRIPPING ELECTRIC ROTARY GRIPPER

Product parameters

Stroke range	0-26mm	IP level	IP40
Maximum recommended load	1kg	Gripping force range	10-25N
Gripping force precision	±5N	Deadweight	1.4kg
Gripping speed range	≤0.4s	Working voltage	24V
Opening/closing positioning precision	±0.02mm	Rated current	1A
Rotational speed range	≥2r/s	Maximum current	2A
Rated rotation torque	0.4N·m	Communication protocol	TCP
Rotational position precision	±0.1°	Running noise	<40dB
Drive form	Integrated drive and control	Usage environment	5~40℃, <85% RH

Note: This product does not include gripping fingers when shipped

ERGG26-30 Dimension drawing



MODEL: ERGG26-30-L5000-EC-N-A-P40-C01

ELS SERIES
ELECTRIC LINEAR SLIDING TABLE

Product features

- **Energy saving and low operating cost**
  The 20W power motor provides 8KG thrust at only 1/10 of the operating cost of the cylinder.
- **Status feedback and intelligent operation**
  Real-time monitoring of operational status with feedback, no need for external sensors.
- **Integrated drive and control for quick deployment**
  Integrated drive design, compact in size, with multiple installation methods including horizontal, vertical, side standing, and suspended ceiling installation.
- **Adjustable parameters to increase utilization rate**
  Flexible parameters of position mode/push mode can be adjusted to improve yield, production capacity and raise equipment utilization.

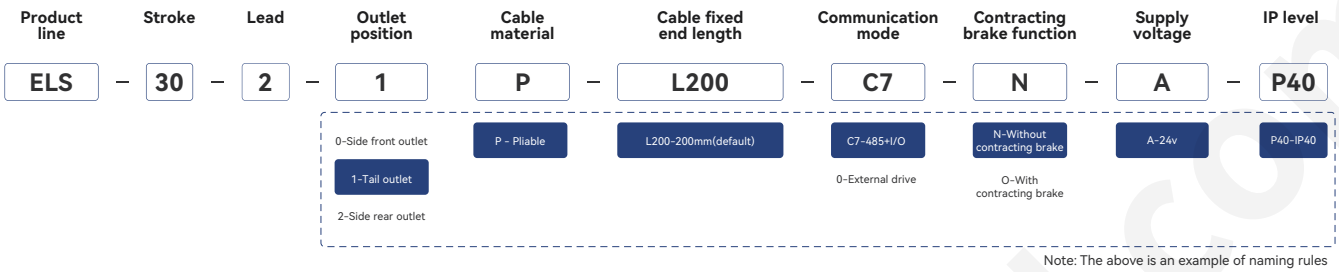
Advantages

High positioning accuracy | Integrated drive and control | Direct-drive closed-loop control | Ultra-thin

Application scenarios

3C electronics | Medical devices | Precision manufacturing | Electric appliance | Education | Automobiles and related

Naming Rules



Note: The above is an example of naming rules

Optional models

Product name	Complete model	Matching cable	Difference		
ELS-30	ELS-30-2-1P-L200-C7-N-A-P40-S00	M12-12FA-S12-5000-P	2mm lead	Tail outlet	Without contracting brake
ELS-30	ELS-30-4-1P-L200-C7-N-A-P40-S00		4mm lead	Tail outlet	Without contracting brake
ELS-30	ELS-30-6-1P-L200-C7-N-A-P40-S00		6mm lead	Tail outlet	Without contracting brake
ELS-30	ELS-30-2-1P-L200-C7-O-A-P40-S00		2mm lead	Tail outlet	With contracting brake
ELS-30	ELS-30-4-1P-L200-C7-O-A-P40-S00		4mm lead	Tail outlet	With contracting brake
ELS-30	ELS-30-6-1P-L200-C7-O-A-P40-S00		6mm lead	Tail outlet	With contracting brake
ELS-30	ELS-30-2-1P-L200-E0-N-A-P40-S00		2mm lead	Tail outlet	Without contracting brake
ELS-30	ELS-30-4-1P-L200-E0-N-A-P40-S00		4mm lead	Tail outlet	Without contracting brake
ELS-30	ELS-30-6-1P-L200-E0-N-A-P40-S00		6mm lead	Tail outlet	Without contracting brake
ELS-30	ELS-30-2-1P-L200-E0-O-A-P40-S00		2mm lead	Tail outlet	With contracting brake
ELS-30	ELS-30-4-1P-L200-E0-O-A-P40-S00		4mm lead	Tail outlet	With contracting brake
ELS-30	ELS-30-6-1P-L200-E0-O-A-P40-S00		6mm lead	Tail outlet	With contracting brake
ELS-50	ELS-50-2-1P-L200-C7-N-A-P40-S00		2mm lead	Tail outlet	Without contracting brake
ELS-50	ELS-50-4-1P-L200-C7-N-A-P40-S00		4mm lead	Tail outlet	Without contracting brake
ELS-50	ELS-50-6-1P-L200-C7-N-A-P40-S00		6mm lead	Tail outlet	Without contracting brake
ELS-50	ELS-50-2-1P-L200-C7-O-A-P40-S00		2mm lead	Tail outlet	With contracting brake
ELS-50	ELS-50-4-1P-L200-C7-O-A-P40-S00		4mm lead	Tail outlet	With contracting brake
ELS-50	ELS-50-6-1P-L200-C7-O-A-P40-S00		6mm lead	Tail outlet	With contracting brake
ELS-50	ELS-50-2-1P-L200-E0-N-A-P40-S00		2mm lead	Tail outlet	Without contracting brake
ELS-50	ELS-50-4-1P-L200-E0-N-A-P40-S00		4mm lead	Tail outlet	Without contracting brake
ELS-50	ELS-50-6-1P-L200-E0-N-A-P40-S00		6mm lead	Tail outlet	Without contracting brake
ELS-50	ELS-50-2-1P-L200-E0-O-A-P40-S00		2mm lead	Tail outlet	With contracting brake
ELS-50	ELS-50-4-1P-L200-E0-O-A-P40-S00		4mm lead	Tail outlet	With contracting brake
ELS-50	ELS-50-6-1P-L200-E0-O-A-P40-S00		6mm lead	Tail outlet	With contracting brake

Optional models

Product name	Complete model	Matching cable	Difference		
ELS-75	ELS-75-5-1P-L200-C7-O-A-P40-S00	M12-12FA-S12-5000-P	5mm lead	Tail outlet	With contracting brake
ELS-150	ELS-150-10-1P-L200-C7-O-A-P40-S00		10mm lead	Tail outlet	With contracting brake
ELS-SW-30	ELS-SW-30-2-1S-L200-0-N-A-P40-S00	M12-3FA-S3-5000_S M12-12FA-SCSI14M-5000-S	2mm lead	Tail outlet	Without contracting brake
ELS-SW-30	ELS-SW-30-2-1S-L200-0-O-A-P40-S00		2mm lead	Tail outlet	With contracting brake
ELS-SW-30	ELS-SW-30-4-1S-L200-0-N-A-P40-S00		4mm lead	Tail outlet	Without contracting brake
ELS-SW-30	ELS-SW-30-4-1S-L200-0-O-A-P40-S00		4mm lead	Tail outlet	With contracting brake
ELS-SW-30	ELS-SW-30-6-1S-L200-0-N-A-P40-S00		6mm lead	Tail outlet	Without contracting brake
ELS-SW-30	ELS-SW-30-6-1S-L200-0-O-A-P40-S00		6mm lead	Tail outlet	With contracting brake
ELS-SW-50	ELS-SW-50-2-1S-L200-0-N-A-P40-S00		2mm lead	Tail outlet	Without contracting brake
ELS-SW-50	ELS-SW-50-2-1S-L200-0-O-A-P40-S00		2mm lead	Tail outlet	With contracting brake
ELS-SW-50	ELS-SW-50-4-1S-L200-0-N-A-P40-S00		4mm lead	Tail outlet	Without contracting brake
ELS-SW-50	ELS-SW-50-4-1S-L200-0-O-A-P40-S00		4mm lead	Tail outlet	With contracting brake
ELS-SW-50	ELS-SW-50-6-1S-L200-0-N-A-P40-S00		6mm lead	Tail outlet	Without contracting brake
ELS-SW-50	ELS-SW-50-6-1S-L200-0-O-A-P40-S00		6mm lead	Tail outlet	With contracting brake
ELS-HP30	ELS-HP30-4-1P-L200-C7-O-A-P40-S00		4mm lead	Tail outlet	With contracting brake
ELS-HP30	ELS-HP30-4-1P-L200-C7-N-A-P40-S00	M12-12FA-S12-5000-P	4mm lead	Tail outlet	Without contracting brake
ELS-HP50	ELS-HP50-4-1P-L200-C7-O-A-P40-S00		4mm lead	Tail outlet	With contracting brake
ELS-HP50	ELS-HP50-4-1P-L200-C7-N-A-P40-S00		4mm lead	Tail outlet	Without contracting brake

ELS-30

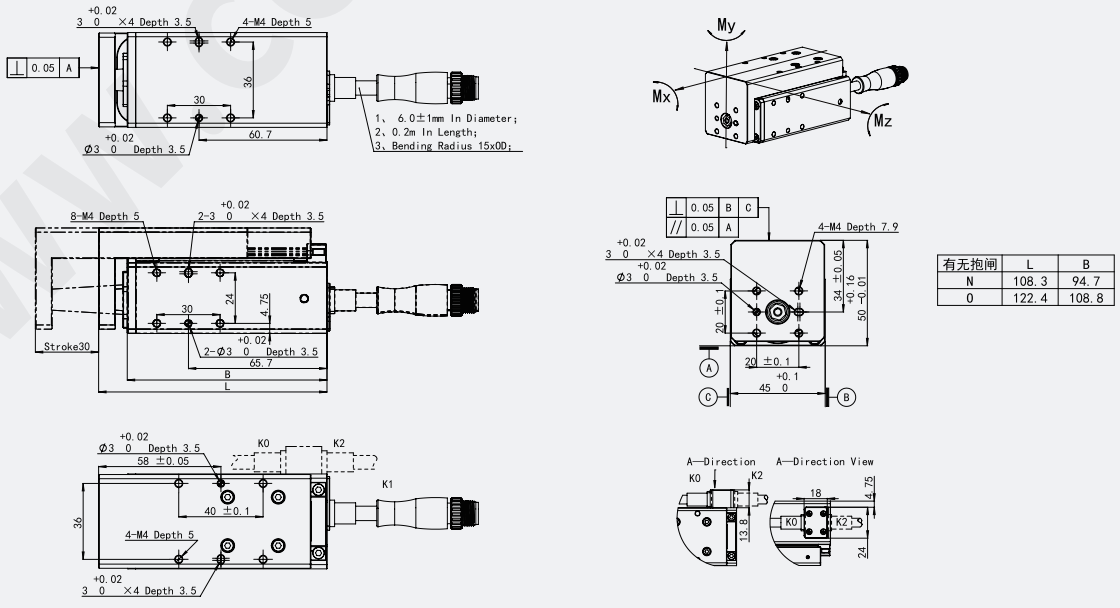
MODEL:ELS-30-2-1P-L200-C7-O-A-P40-S00

Product parameters

Full stroke	30mm			
Lead of lead screw	1mm	2mm	4mm	6mm
Rated thrust	200N	100N	50N	30N
Minimum thrust	60N	30N	15N	9N
Maximum speed	50mm/s	100mm/s	200mm/s	300mm/s
Maximum acceleration	0.2	0.3	0.3	0.3
Maximum portable weight - Horizontal	8kg	6kg	3kg	2kg
Maximum portable weight - Vertical	2kg	1.5kg	0.75kg	0.5kg
Position repeatability precision	±0.02mm			
Body width	45mm			
Deadweight	0.72kg (without contracting brake)/0.75kg (with contracting brake)			
Function description	Position mode/push mode			
Communication protocol	Modbus RTU(RS485)/EtherCAT			
Installation method	Horizontal, vertical, side standing, and suspended ceiling installation			
Interface cable outlet method	Tail outlet/side outlet			
Walking lifespan	50 million round trips/5000 km			

Drive	Built-in
Protection level	IP40
Compliant with international standards	CE, RoHS
Recommended usage environment	0~40℃, <85% RH
Rated voltage	DC 24V±10%
Rated current	1.5A
Peak current	3A
Rated power	20W
Motor type	DC servo motor
Static allowable load torque Mx	32 N·m
Static allowable load torque My	20 N·m
Static allowable load torque Mz	23 N·m
Dynamic allowable load torque Mx	12.5 N·m
Dynamic allowable load torque My	10 N·m
Dynamic allowable load torque Mz	10 N·m

ELS-30 Dimension drawing



有无抱闸	L	B
N	108.3	94.7
O	122.4	108.8

ELS-50

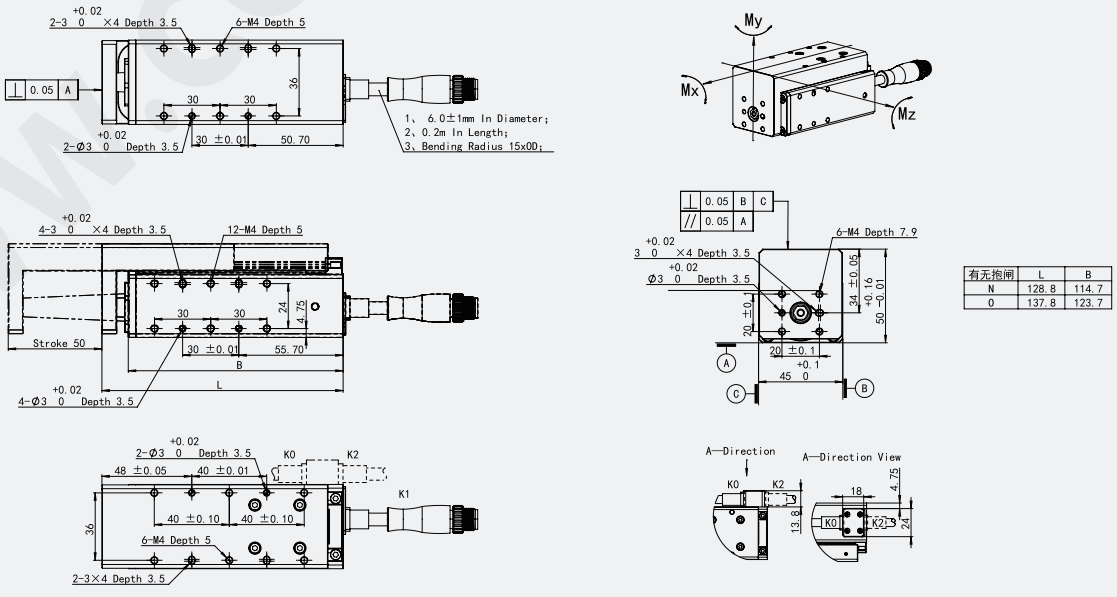
Model:ELS-50-2-1P-L200-C7-O-A-P40-S00

Product parameters

Full stroke	50mm			
Lead of lead screw	1mm	2mm	4mm	6mm
Rated thrust	200N	100N	50N	30N
Minimum thrust	60N	30N	15N	9N
Maximum speed	50mm/s	100mm/s	200mm/s	300mm/s
Maximum acceleration	0.2	0.3	0.3	0.3
Maximum portable weight - Horizontal	8kg	6kg	3kg	2kg
Maximum portable weight - Vertical	2kg	1.5kg	0.75kg	0.5kg
Position repeatability precision	±0.02mm			
Body width	45mm			
Deadweight	0.83kg (without contracting brake)/0.86kg (with contracting brake)			
Function description	Position mode/push mode			
Communication protocol	Modbus RTU(RS485)/EtherCAT			
Installation method	Horizontal, vertical, side standing, and suspended ceiling installation			
Interface cable outlet method	Tail outlet/side outlet			
Walking lifespan	50 million round trips/5000 km			

Drive	Built-in
Protection level	IP40
Compliant with international standards	CE, RoHS
Recommended usage environment	0~40℃, <85% RH
Rated voltage V	DC 24V±10%
Rated current A	1.5A
Peak current A	3A
Rated power W	20W
Motor type	DC servo motor
Static allowable load torque Mx	32 N·m
Static allowable load torque My	20 N·m
Static allowable load torque Mz	23 N·m
Dynamic allowable load torque Mx	12.5 N·m
Dynamic allowable load torque My	10 N·m
Dynamic allowable load torque Mz	10 N·m

ELS-50 Dimension drawing



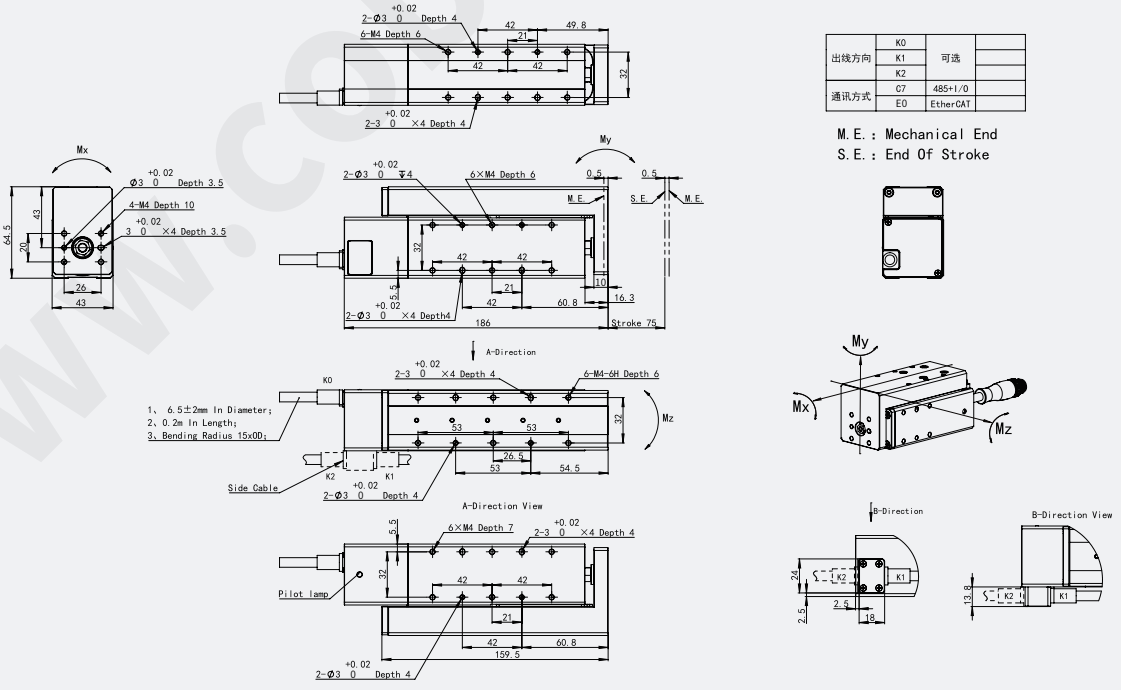
ELS-75

Model: ELS-75-5-1P-L200-C7-O-A-P40-S00

Product parameters

Full stroke mm	**75mm**	Deadweight	**1.3kg**
Lead of lead screw mm	**5mm**	Protection level	**IP40**
Rated thrust N	**170N**	Rated voltage V	**DC 24V ±10%**
Minimum thrust N	**51N**	Rated current A	**3A**
Maximum speed mm/s	**250mm/s**	Peak current A	**7A**
Maximum acceleration	**2000mm/s^2**	Recommended usage environment	**0℃ - 40℃, <85% RH**
Maximum load - horizontal kg	**15kg**	Cable length	**Body outlet 0.2m, attached line length 5m**
Maximum load - vertical kg	**6kg**	Static allowable load torque Mx	**38.2N·m**
Position repeatability precision mm	**±0.02mm**	Static allowable load torque My	**36.2N·m**
Stroke backlash mm	**<0.1mm**	Static allowable load torque Mz	**36.2N·m**
Contracting brake	**Built-in contracting brake**	Dynamic allowable load torque Mx	**15.2N·m**
Communication protocol	**Modbus RTU(RS485)+Digital I/O**	Dynamic allowable load torque My	**14.5N·m**
Drive	**Built-in**	Dynamic allowable load torque Mz	**14.5N·m**
Body width	**43mm**		

ELS-75 Dimension drawing



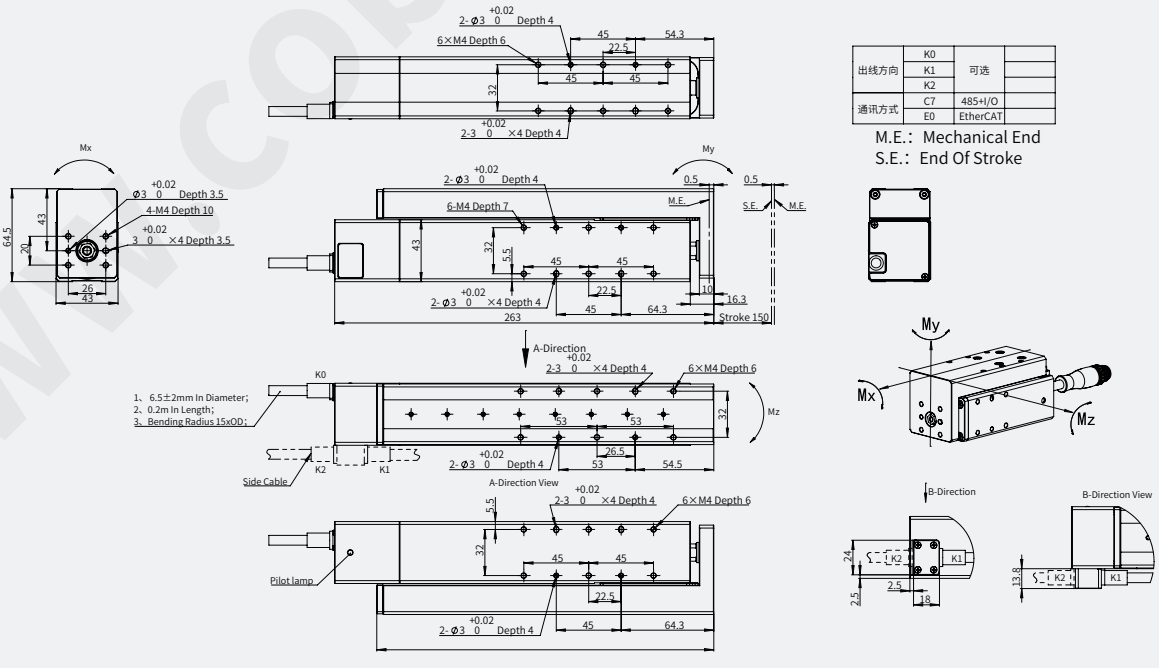
ELS-150

Model: ELS-150-10-1P-L200-C7-O-A-P40-S00

Product parameters

Full stroke mm	**150mm**	Deadweight	**1.8kg**
Lead of lead screw mm	**10mm**	Protection level	**IP40**
Rated thrust N	**170N**	Rated voltage V	**DC 24V ±10%**
Minimum thrust N	**90N**	Rated current A	**2.5A**
Maximum speed mm/s	**500mm/s**	Peak current A	**7A**
Maximum acceleration	**3000mm/s^2**	Recommended usage environment	**0℃ - 40℃, <85% RH**
Maximum load - horizontal kg	**10kg**	Cable length	**Body outlet 0.2m, attached line length 5m**
Maximum load - vertical kg	**3kg**	Static allowable load torque Mx	**38.2N·m**
Position repeatability precision mm	**±0.01mm**	Static allowable load torque My	**36.2N·m**
Stroke backlash mm	**<0.1mm**	Static allowable load torque Mz	**36.2N·m**
Contracting brake	**Built-in contracting brake**	Dynamic allowable load torque Mx	**15.2N·m**
Communication protocol	**Modbus RTU(RS485)+Digital I/O**	Dynamic allowable load torque My	**14.5N·m**
Drive	**Built-in**	Dynamic allowable load torque Mz	**14.5N·m**
Body width	**43mm**		

ELS-150 Dimension drawing



ELS-SW-30

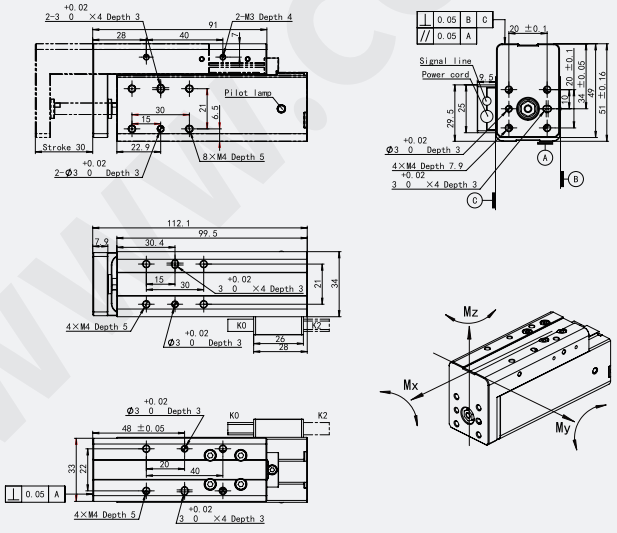
Model: ELS-SW-30-2-1S-L200-0-O-A-P40-S00

Product parameters

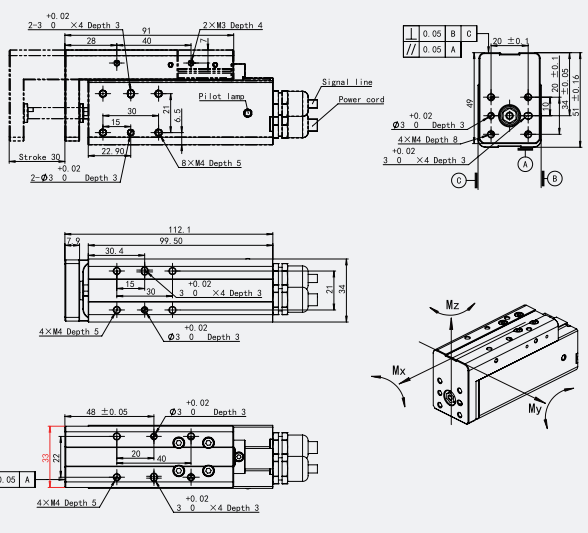
Full stroke	30mm			
Lead of lead screw mm	1mm	2mm	4mm	6mm
Rated thrust N	200N	100N	50N	30N
Minimum thrust N	60N	30N	15N	9N
Maximum speed mm/s	50mm/s	100mm/s	200mm/s	300mm/s
Maximum acceleration G	0.2	0.3	0.3	0.3
Maximum portable weight - Horizontal kg	8kg	6kg	3kg	2kg
Maximum portable weight - Vertical kg	2kg	1.5kg	0.75kg	0.5kg
Position repeatability precision mm	±0.02mm			
Body width mm	34mm			
Function description	Position mode/push mode			
Communication protocol	Modbus RTU(RS485)/EtherCAT			
Installation method	Horizontal, vertical, side standing, and suspended ceiling installation			
Interface cable outlet method	Tail outlet/side outlet			
Walking lifespan	50 million round trips/5000 km			

Drive	External
Protection level	IP40
Deadweight	0.56kg
Recommended usage environment	0~40℃, <85%RH
Rated voltage V	DC 24V±10%
Rated current A	1.5A
Peak current A	3A
Rated power W	20W
Motor type	DC servo motor
Static allowable load torque Mx	14.6 N·m
Static allowable load torque My	14.6 N·m
Static allowable load torque Mz	17.2 N·m
Dynamic allowable load torque Mx	7.3 N·m
Dynamic allowable load torque My	7.4 N·m
Dynamic allowable load torque Mz	8.6 N·m

ELS-SW-30 Dimension drawing



ELS-SW-30（side outlet）



ELS-SW-30（tail outlet）

ELS-SW-50

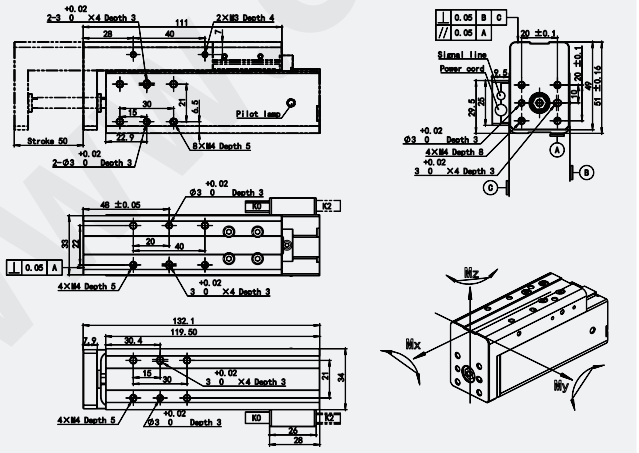
Model: ELS-SW-50-2-1S-L200-0-O-A-P40-S00

Product parameters

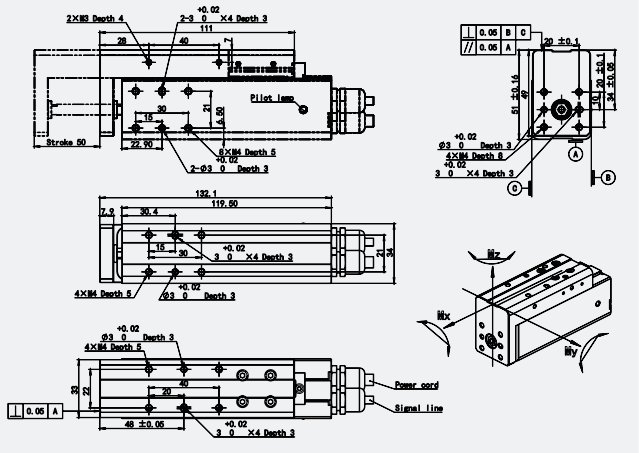
Full stroke	50mm			
Lead of lead screw mm	1mm	2mm	4mm	6mm
Rated thrust N	200N	100N	50N	30N
Minimum thrust N	60N	30N	15N	9N
Maximum speed mm/s	50mm/s	100mm/s	200mm/s	300mm/s
Maximum acceleration G	0.2	0.3	0.3	0.3
Maximum portable weight - Horizontal kg	8kg	6kg	3kg	2kg
Maximum portable weight - Vertical kg	2kg	1.5kg	0.75kg	0.5kg
Position repeatability precision mm	±0.02mm			
Body width mm	34mm			
Function description	Position mode/push mode			
Communication protocol	Modbus RTU(RS485)/EtherCAT			
Installation method	Horizontal, vertical, side standing, and suspended ceiling installation			
Interface cable outlet method	Tail outlet/side outlet			
Walking lifespan	50 million round trips/5000 km			

Drive	External
Protection level	IP40
Deadweight	0.64kg
Recommended usage environment	0~40℃, <85%RH
Rated voltage V	DC 24V±10%
Rated current A	1.5A
Peak current A	3A
Rated power W	20W
Motor type	DC servo motor
Static allowable load torque Mx	14.6 N·m
Static allowable load torque My	14.6 N·m
Static allowable load torque Mz	17.2 N·m
Dynamic allowable load torque Mx	7.3 N·m
Dynamic allowable load torque My	7.4 N·m
Dynamic allowable load torque Mz	8.6 N·m

ELS-SW-50 Dimension drawing



ELS-SW-50（side outlet）



ELS-SW-50（tail outlet）

ELS-HP30

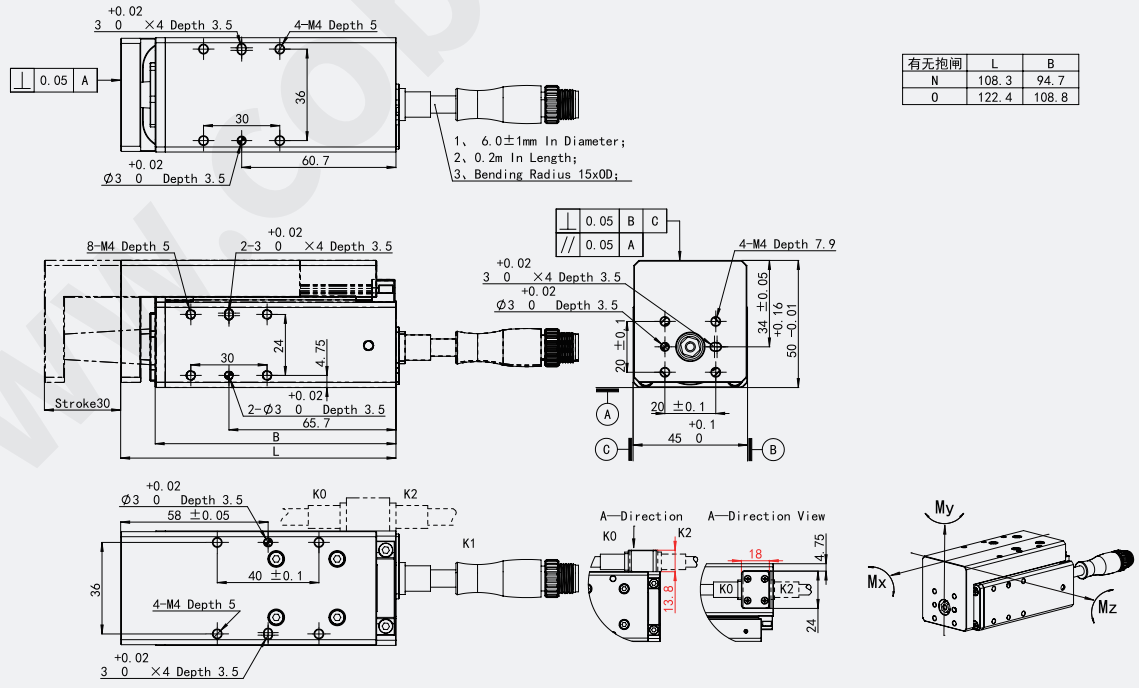
Model: ELS-HP30-X-XP-L200-C7-X-A-P40-S00

Product parameters

Full stroke	30mm			
Lead of lead screw mm	1mm	2mm	4mm	6mm
Rated thrust N	200N	100N	50N	30N
Minimum thrust N	60N	30N	15N	9N
Maximum speed mm/s	50mm/s	100mm/s	200mm/s	300mm/s
Maximum acceleration G	0.2	0.3	0.3	0.3
Maximum portable weight - Horizontal kg	8kg	6kg	3kg	2kg
Maximum portable weight - Vertical kg	2kg	1.5kg	0.75kg	0.5kg
Position repeatability precision mm	±0.004mm			
Absolute position accuracy mm	±0.01mm			
Body width mm	45mm			
Function description	Position mode/push mode			

Drive	External
Protection level	IP40
Recommended usage environment	0~40℃, <85%RH
Rated voltage V	DC 24V±10%
Rated current A	1.5A
Peak current A	3A
Static allowable load torque Mx	32 N·m
Static allowable load torque My	20 N·m
Static allowable load torque Mz	23 N·m
Dynamic allowable load torque Mx	12.5 N·m
Dynamic allowable load torque My	10 N·m
Dynamic allowable load torque Mz	10 N·m

ELS-HP30 Dimension drawing



ELS-HP50

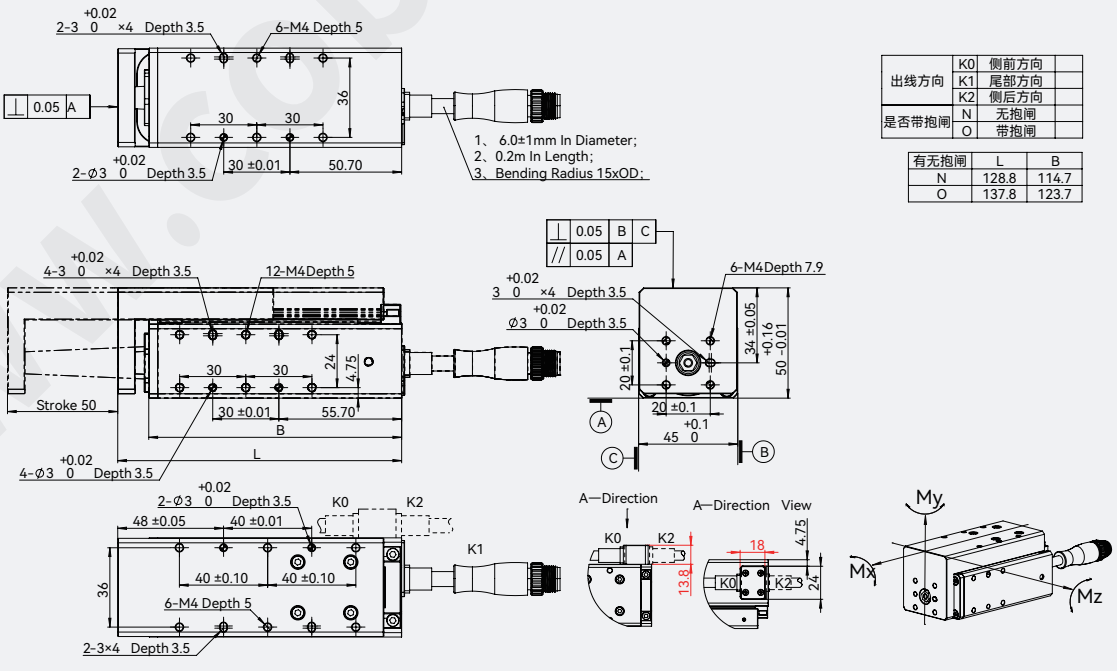
Model: ELS-HP50-X-XP-L200-C7-X-A-P40-S00

Product parameters

Full stroke	50mm			
Lead of lead screw mm	1mm	2mm	4mm	6mm
Rated thrust N	200N	100N	50N	30N
Minimum thrust N	60N	30N	15N	9N
Maximum speed mm/s	50mm/s	100mm/s	200mm/s	300mm/s
Maximum acceleration G	0.2	0.3	0.3	0.3
Maximum portable weight - Horizontal kg	8kg	6kg	3kg	2kg
Maximum portable weight - Vertical kg	2kg	1.5kg	0.75kg	0.5kg
Position repeatability precision mm	±0.004mm			
Absolute position accuracy mm	±0.01mm			
Body width mm	45mm			
Function description	Position mode/push mode			

Drive	External
Protection level	IP40
Recommended usage environment	0~40℃, <85%RH
Rated voltage V	DC 24V±10%
Rated current A	1.5A
Peak current A	3A
Static allowable load torque Mx	32 N·m
Static allowable load torque My	20 N·m
Static allowable load torque Mz	23 N·m
Dynamic allowable load torque Mx	12.5 N·m
Dynamic allowable load torque My	10 N·m
Dynamic allowable load torque Mz	10 N·m

ELS-HP50 Dimension drawing



LRA SERIES
LINEAR ROTARY ACTUATOR

Product features

- **Ultra thin**

  "Z+R" highly integrated, simplified structure and easy maintenance.

- **Precision force control**

  For the motion control algorithm with linear motor direct drive, the precision deviation of force control is ± 3G when positioning is performed repeatedly toward the same point.

- **Linear rotation**

  High-speed pick-and-placement provides precise linear and rotary movements, allowing adjustments to be made after instantaneous reading, analysis and feedback of force and position data.

- **Precision pick and placement**

  The linear precision optical encoder provides micrometer level resolution, and the rotating 17 bit encoder accurately locates the positions of various components during the picking and placing process, preventing problems of position offset or overlap.

- **Soft landing**

  The precision force control soft landing function enables intelligent picking and placing with flexible contact, efficiently completing chip packaging, mounting and other processes, and improving product yield through flexible operations.

Application scenarios

Semiconductor | 3C electronics | Medical devices | Precision manufacturing

Naming Rules

Product line	Stroke		Thickness		Motor type		Resolution		Supply voltage		IP level
LRA	15	–	20	–		–	00	–	A	–	P40

None - Linear motor
V - Voice coil motor
M - Rod motor

00 - Straight line 0.2μm + rotation 17 bits by default

A-24v

P40-IP40

Note: The above is an example of naming rules

Optional models

Product line	Product sub-line	Complete model
LRA Series	LRA15-20	LRA15-20-00-A-P40-C01
LRA Series	LRA25-20	LRA25-20-00-A-P40-C01
LRA Series	LRA30-23	LRA30-23-00-A-P40-C01
LRA Series	LRA30-25	LRA30-25-00-A-P40-C01
LRA Series	LRA40-23	LRA40-23-00-A-P40-S00
LRA Series	LRA60-25	LRA60-25-00-A-P40-S00
LRA Series	LRA15-50V	LRA15-50V-00-B-P40-C01
LRA Extended series	LRA-S-40-16M	LRA-S-40-16M-00-A-P40-C03
LRA Extended series	LRA-E50-25	LRA-E50-25-00-A-P40-S00
LRA Extended series	LRA-HP-25-20	LRA-HP-25-20-00-A-P40-C01
LRA Extended series	LRA-HP-40-23	LRA-HP-40-23-00-A-P40-S00
LRA Extended series	LRA-F-15-20	LRA-F-15-20-00-A-P40-C01
LRA Extended series	LRA-F-15-50V	LRA-F-15-50V-00-B-P40-C01
LRA Extended series	LRA-F-30-22	LRA-F-30-22-00-A-P40-C01

S: Ultra-thin series; E: Essential series; HP: High precision series; F: Force closed loop series

LRA15-20

Model: LRA15-20-00-A-P40-C01

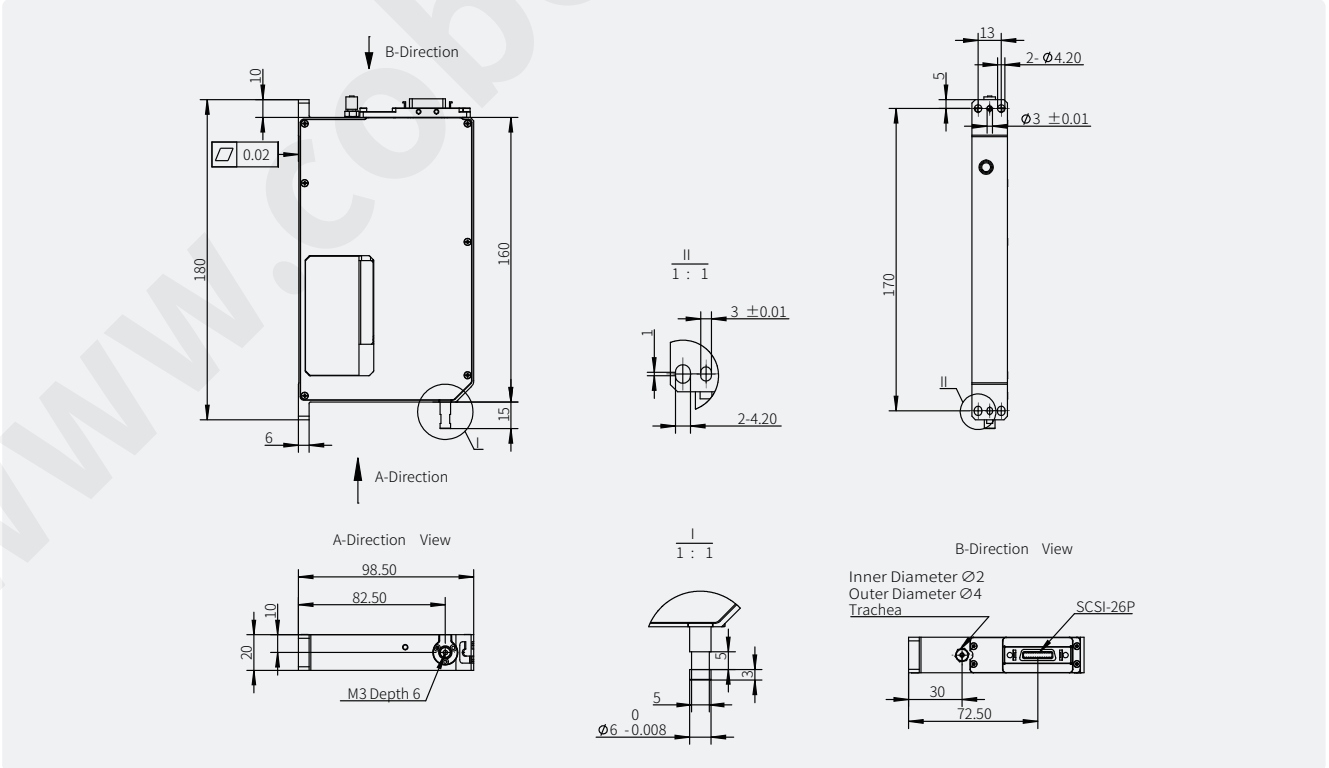
Product parameters

Z-axis	Adjustable stroke	15 mm
	Sustained thrust	12 N
	Peak thrust N	39.6 N
	Force constant	7.5 N/A
	Sustained current	1.6A
	Peak current	5.3A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	20mm
	Voltage	DC 24V±10%
	Usage environment	5-40°C, <85%RH
	Deadweight	0.70 kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.043 N·m
	Rated current	0.4A
	Peak current	1.4A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±5g
	50g~300g	±10g

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA15-20 Dimension drawing



LRA25-20

Model: LRA25-20-00-A-P40-S00

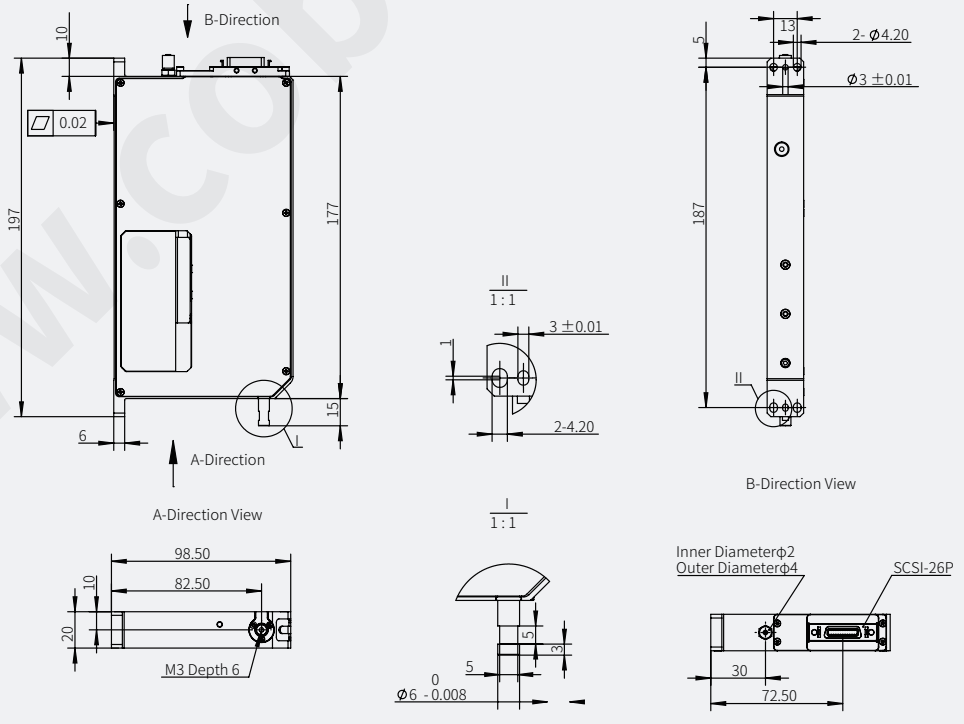
Product parameters

Z-axis	Adjustable stroke	25 mm
	Sustained thrust	12 N
	Peak thrust N	39.6 N
	Force constant	7.5 N/A
	Sustained current	1.6A
	Peak current	5.3A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	20mm
	Voltage	DC 24V±10%
	Usage environment	5-40°C, <85%RH
	Deadweight	0.74 Kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.043 N·m
	Rated current	0.4A
	Peak current	1.4A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±5g
	50g~300g	±10g

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA25-20 Dimension drawing



LRA30-23

Model: LRA30-23-00-A-P40-S00

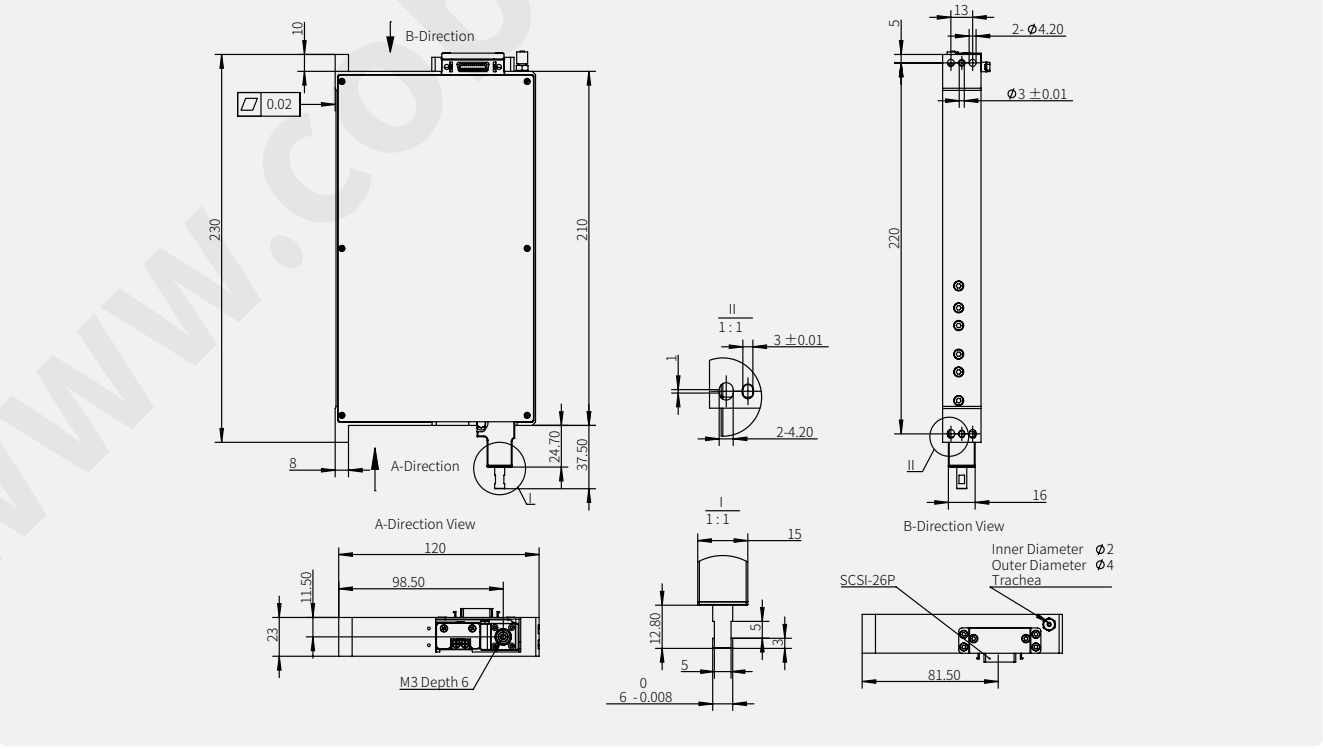
Product parameters

Z-axis	Adjustable stroke	30 mm
	Sustained thrust	10 N
	Peak thrust N	35 N
	Force constant	10 N/A
	Sustained current	1A
	Peak current	3.5A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	23mm
	Voltage	DC 24V±10%
	Usage environment	5-40℃, <85%RH
	Deadweight	1.27 kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.043 N·m
	Rated current	0.4A
	Peak current	1.4A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±5g
	50g~300g	±10g
	Compliant with international standards	CE

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA30-23 Dimension drawing



LRA30-25

Model: LRA30-25-00-A-P40-C01

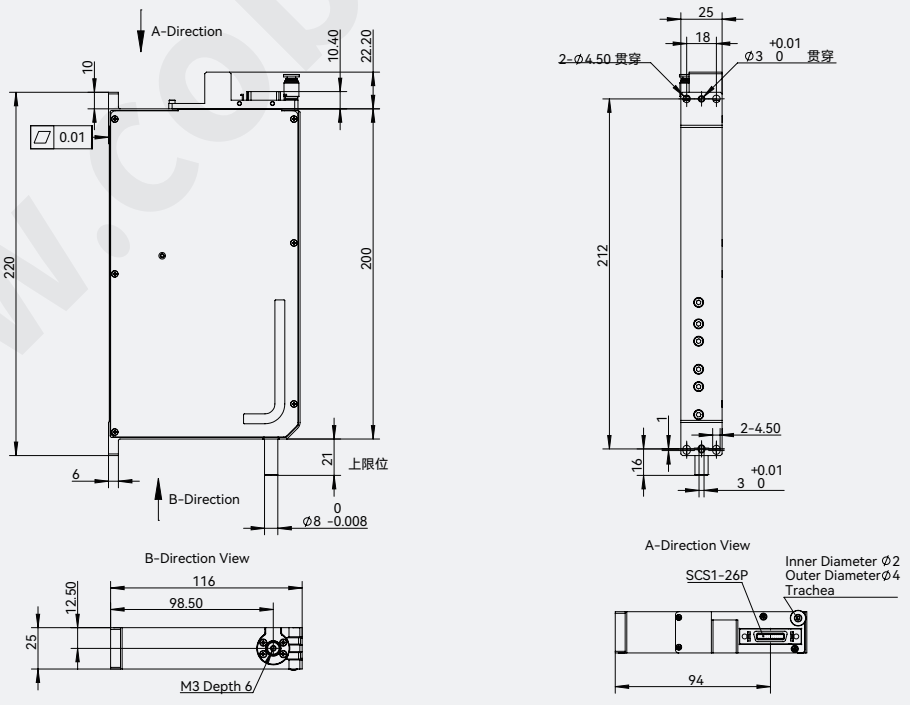
Product parameters

Z-axis	Adjustable stroke	30 mm
	Sustained thrust	10 N
	Peak thrust N	35 N
	Force constant	10 N/A
	Sustained current	1A
	Peak current	3.5A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	25mm
	Voltage	DC 24V±10%
	Usage environment	5-40°C, <85%RH
	Deadweight	1.1 Kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.043 N·m
	Rated current	0.4A
	Peak current	1.2A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±5g
	50g~300g	±10g
	Compliant with international standards	CE

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA30-25 Dimension drawing



LRA40-23

Model: LRA40-23-00-A-P40-S00

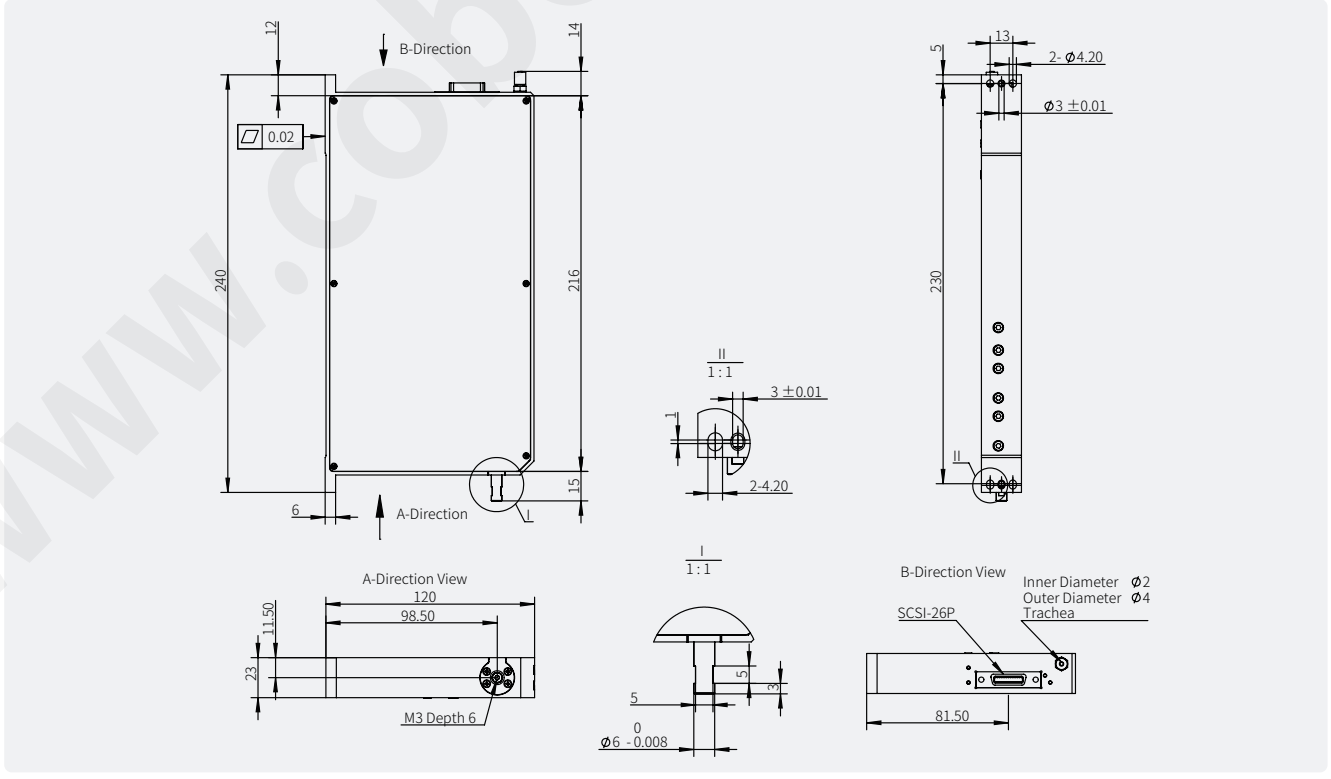
Product parameters

Z-axis	Adjustable stroke	40 mm
	Sustained thrust	10 N
	Peak thrust N	35 N
	Force constant	10 N/A
	Sustained current	1A
	Peak current	3.1A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	23mm
	Voltage	DC 24V±10%
	Usage environment	5-40°C, <85%RH
	Deadweight	1.25 Kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.043 N·m
	Rated current	0.4A
	Peak current	1.4A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±5g
	50g~300g	±10g

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA40-23 Dimension drawing



LRA60-25

Model: LRA60-25-00-A-P40-S00

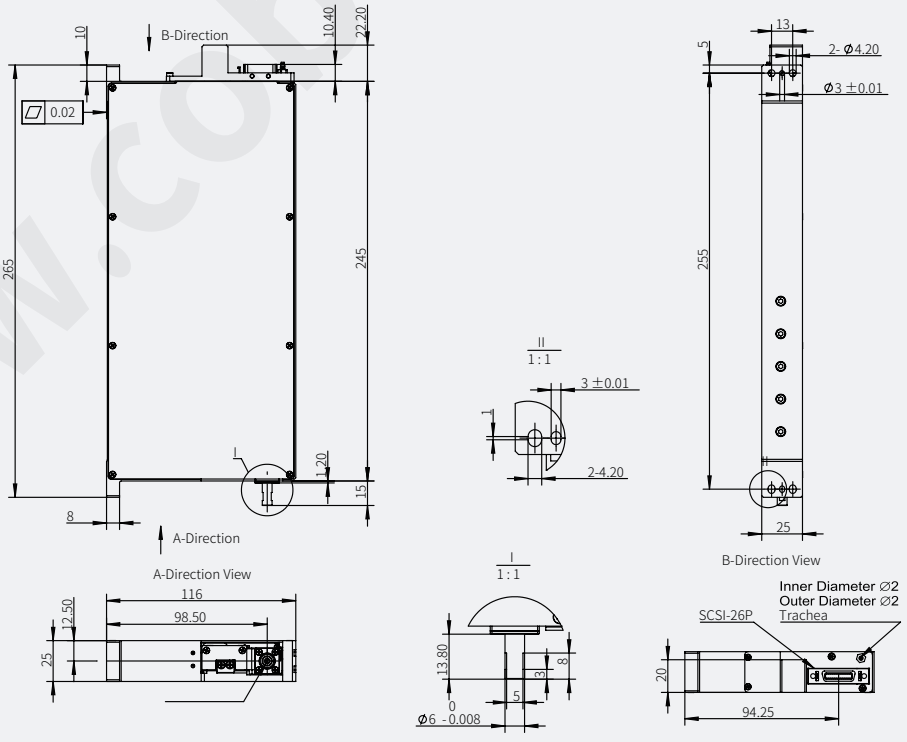
Product parameters

Z-axis	Adjustable stroke	60 mm
	Sustained thrust	10 N
	Peak thrust N	35 N
	Force constant	10 N/A
	Sustained current	1A
	Peak current	3.5A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	25mm
	Voltage	DC 24V±10%
	Usage environment	5-40℃, <85%RH
	Deadweight	1.5 Kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.043 N·m
	Rated current	0.4A
	Peak current	1.4A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±5g
	50g~300g	±10g

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA60-25 Dimension drawing



LRA15-50V

Model: LRA15-50V-00-B-P40-C01

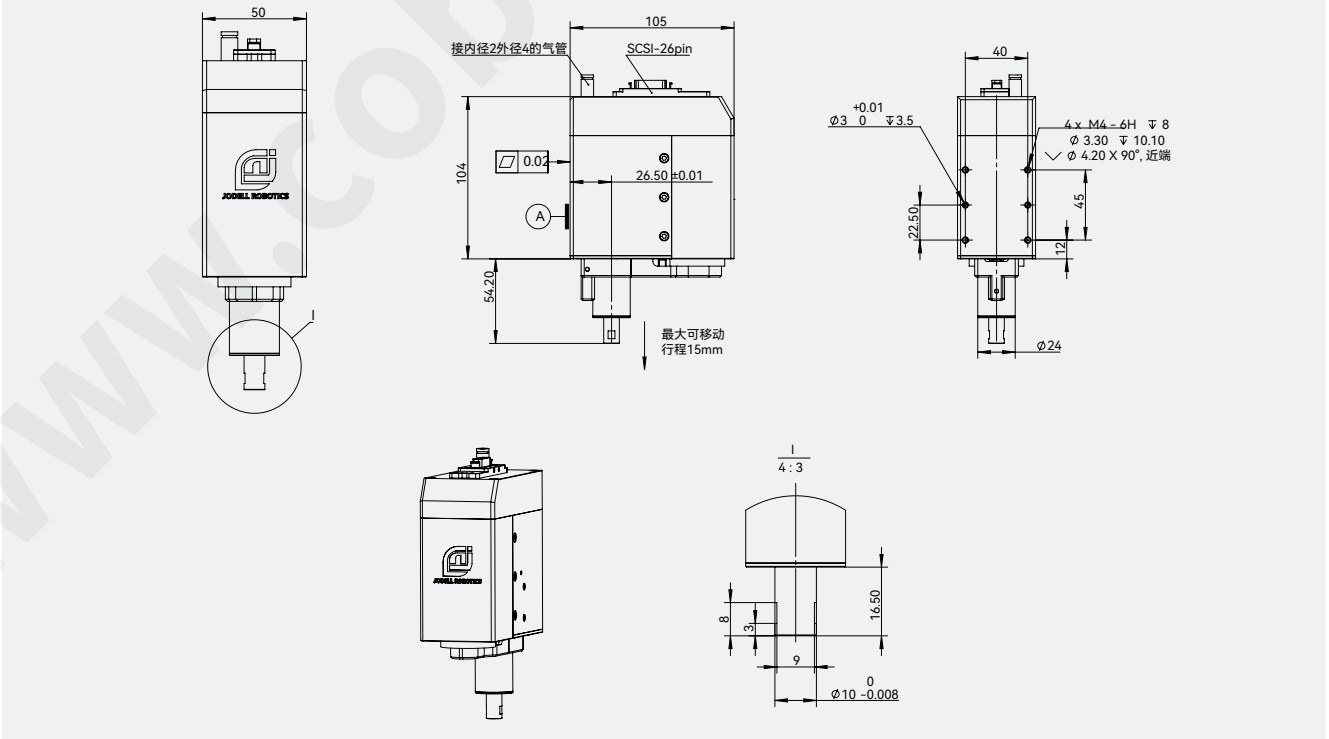
Product parameters

Z-axis	Adjustable stroke	15 mm
	Sustained thrust	27.5 N
	Peak thrust N	70 N
	Force constant	17.7 N/A
	Sustained current	1.55A
	Peak current	4A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	50mm
	Voltage	DC 48V±10%
	Usage environment	5-40℃, <85%RH
	Deadweight	1 kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.028 N·m
	Peak torque	0.142 N·m
	Rated current	1.11A
	Peak current	5.33A
	Radial runout	±2μm(±1μm customizable)
Force control repeatability precision	20~125g	±5g
	125g~700g	±4%
	Compliant with international standards	CE

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA15-50V Dimension drawing



LRA-S-40-16M

Model: LRA-S-40-16M-00-A-P40-C03

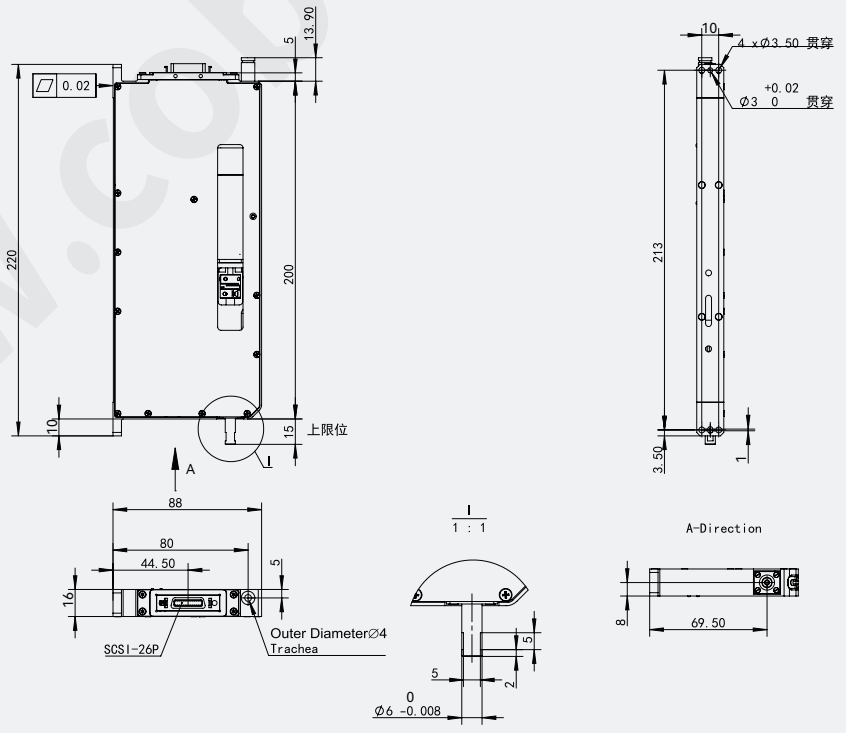
Product parameters

Z-axis	Adjustable stroke	40 mm
	Sustained thrust	6 N
	Peak thrust	17.8 N
	Force constant	7.9 N/A
	Sustained current	0.76A
	Peak current	2.24A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	16mm
	Voltage	DC 24V±10%
	Usage environment	5-40°C, <85%RH
	Deadweight	0.78 kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.036 N·m
	Rated current	0.4A
	Peak current	1.2A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±5g
	50g~300g	±10g
	Compliant with international standards	CE

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA-S-40-16M Dimension drawing



LRA-E50-25

Model: LRA-E50-25-00-A-P40-S00

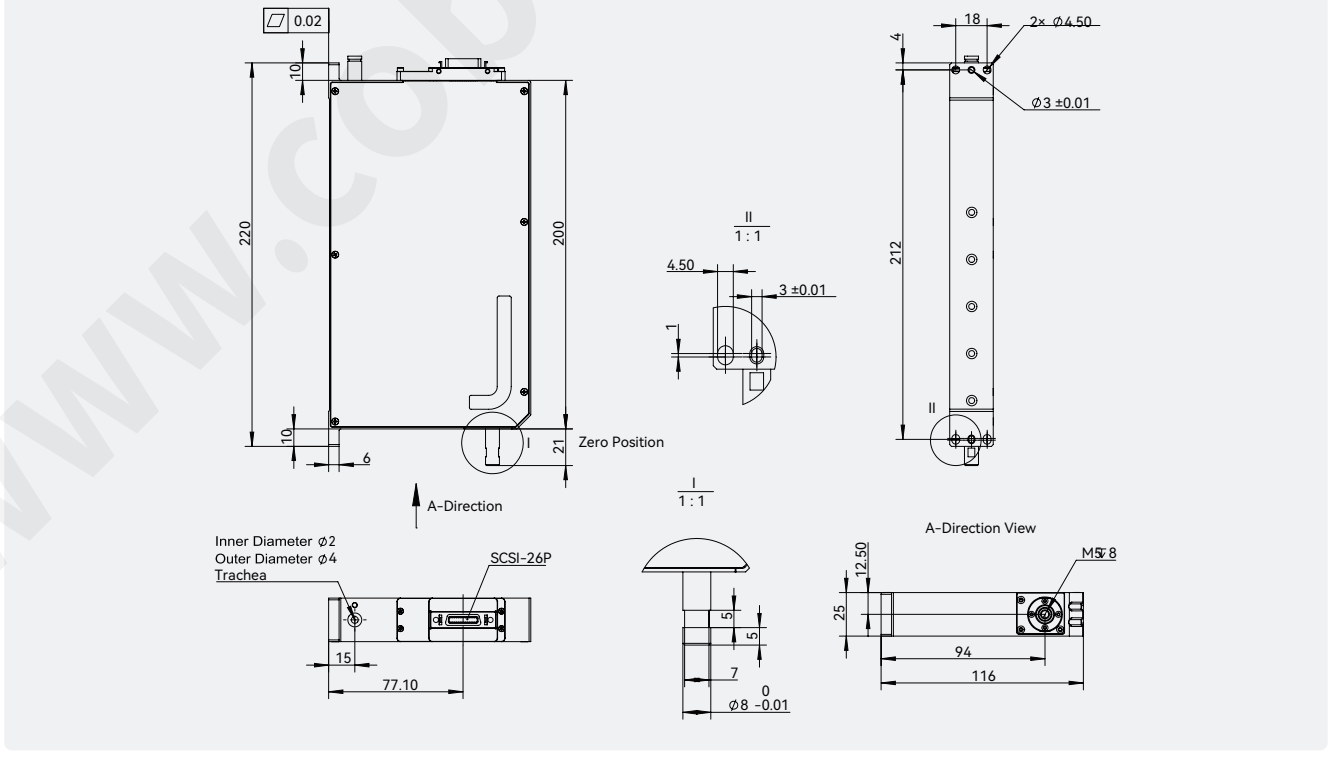
Product parameters

Z-axis	Adjustable stroke	**50 mm**
	Sustained thrust	**12 N**
	Peak thrust N	**39.6 N**
	Force constant	**7.5 N/A**
	Sustained current	**1.6A**
	Peak current	**5.3A**
	Linear encoder resolution	**0.2 μm**
	Repeat positioning precision	**±2 μm**
Body parameters	Thickness	**25mm**
	Voltage	**DC 24V±10%**
	Usage environment	**5-40°C, <85%RH**
	Deadweight	**1 kg**

R-axis	Rotation angle	**±360°**
	Rotary encoder resolution	**131072**
	Rotary positioning precision	**±0.01°**
	Rated torque	**0.02 N·m**
	Peak torque	**0.187 N·m**
	Rated current	**1.14A**
	Peak current	**10.7A**
	Output shaft radial runout	**±5μm(±1μm customizable)**
Force control repeatability precision	20~50g	**±5g**
	50g~300g	**±10g**
	Compliant with international standards	**CE**

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA-E50-25 Dimension drawing



LRA-HP-25-20

Model: LRA-HP-25-20-00-A-P40-C01

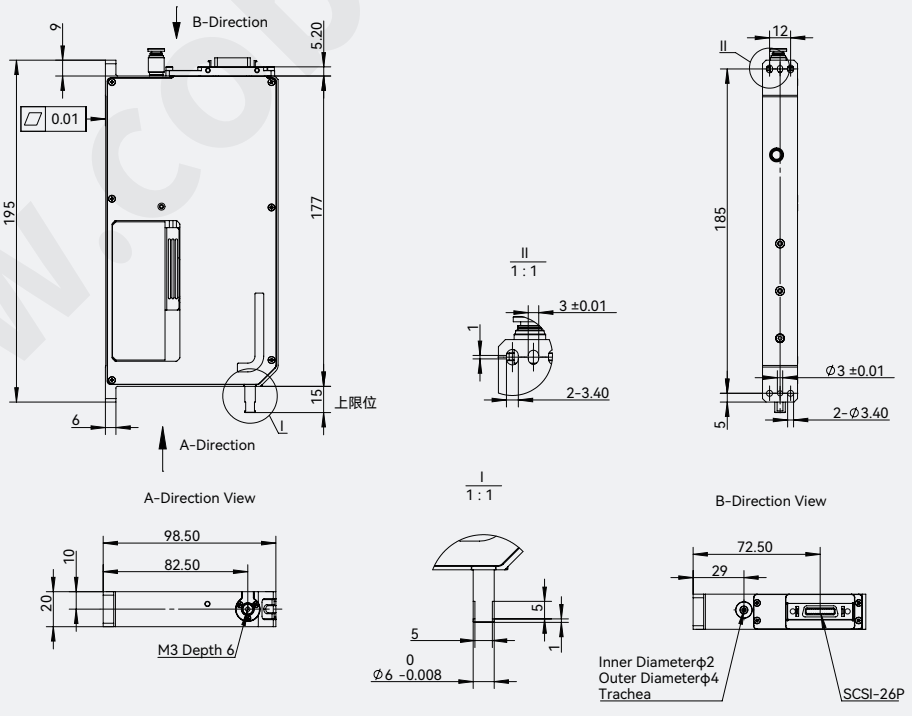
Product parameters

Z-axis	Adjustable stroke	25 mm
	Sustained thrust	12 N
	Peak thrust N	39.6 N
	Force constant	7.5 N/A
	Sustained current	1.6A
	Peak current	5.3A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	20mm
	Voltage	DC 24V±10%
	Usage environment	5-40°C, <85%RH
	Deadweight	0.74 kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.036 N·m
	Rated current	0.4A
	Peak current	1.2A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±3g
	50g~300g	±10g
	Compliant with international standards	CE

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA-HP-25-20 Dimension drawing



LRA-HP-40-23

Model: LRA-HP-40-23-00-A-P40-S00

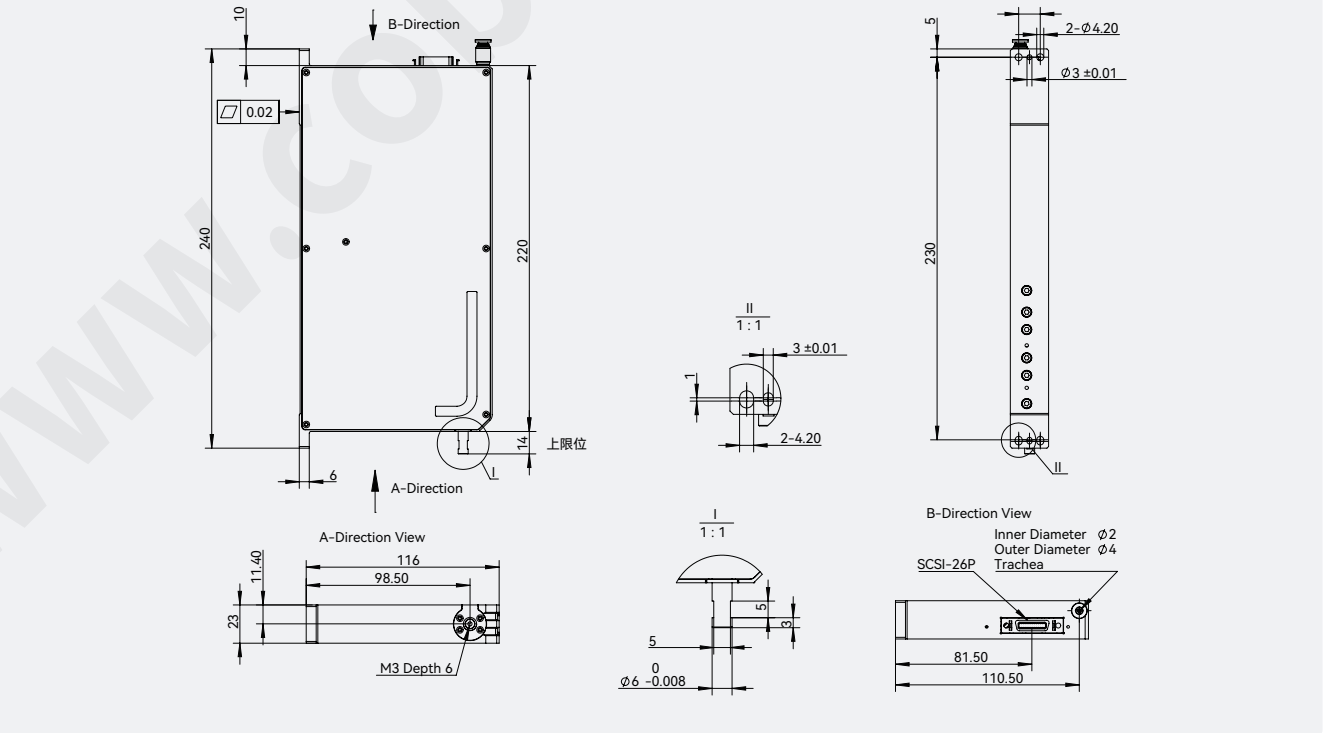
Product parameters

Z-axis	Adjustable stroke	40 mm
	Sustained thrust	10 N
	Peak thrust N	35 N
	Force constant	10 N/A
	Sustained current	1A
	Peak current	3.5A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	23mm
	Voltage	DC 24V±10%
	Usage environment	5-40°C, <85%RH
	Deadweight	1.2 kg

R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.036 N·m
	Rated current	0.4A
	Peak current	1.2A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	20~50g	±3g
	50g~300g	±10g
	Compliant with international standards	CE

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA-HP-40-23 Dimension drawing



LRA-F-15-20

MODEL:LRA-F-15-20-00-A-P40-C01

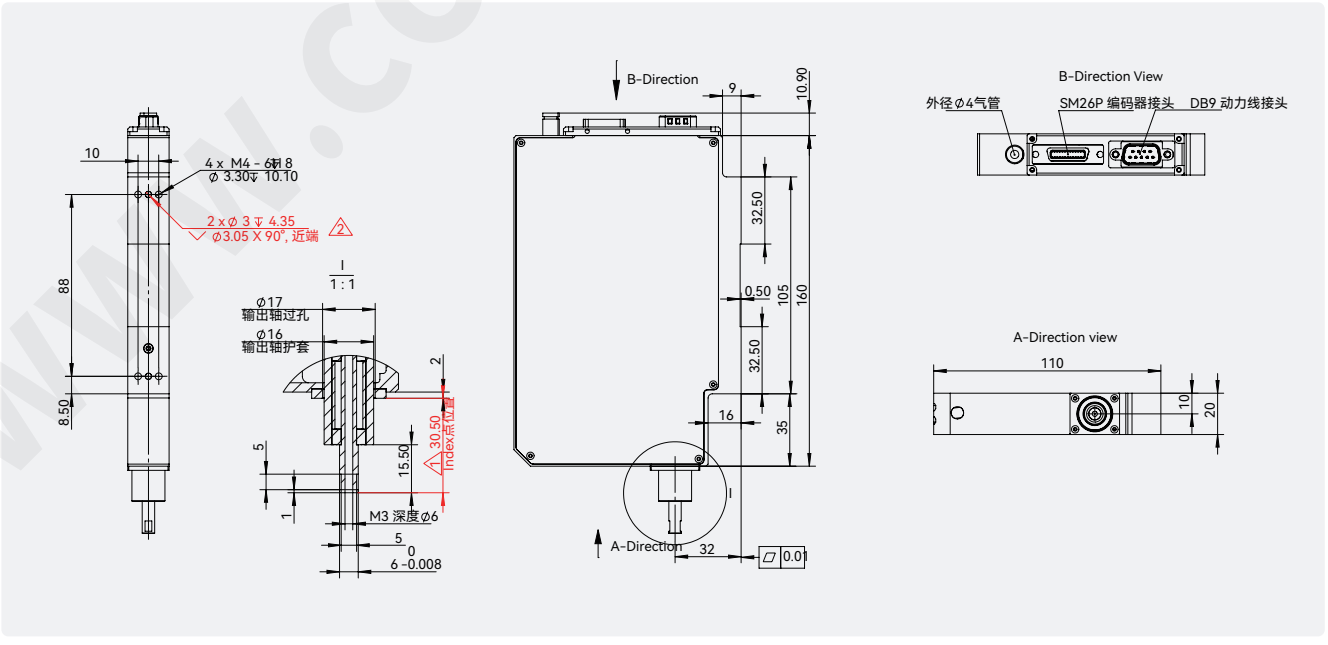
Product parameters

Z-axis	Adjustable stroke	15 mm
	Sustained thrust	6 N
	Peak thrust	17.8 N
	Force constant	7.9 N/A
	Continuous current	0.76 A
	peak current	2.24A
	Polar distance	18mm
	Phase resistance	13Ω
	Phase inductance	1.0mH
	voltage	24/48V
	Moving quality	260g
	Maximum load	100g
	Linear encoder resolution	0.1 μm
	Position repetition positioning accuracy	±2 μm
	Counterweight spring	拉簧

R-axis	Rotation angle	±360°
	Maximum speed	2000rpm
	Rotary encoder resolution	131072线
	Rotary positioning accuracy	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.036 N·m
	Rated current	1.2A
	peak current	0.4A
	Torque coefficient	0.03 N.m/A
	Phase resistance	6.9Ω
	Phase inductance	0.14mH
	voltage	24/48V
	Polar logarithm	1
	Radial runout of output shaft	±2μm
Force control repeatability precision（10~400g）		±1g

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA-F-15-20 Dimension drawing



LRA-F-15-50V

Model: LRA-F-15-50V-00-B-P40-C01

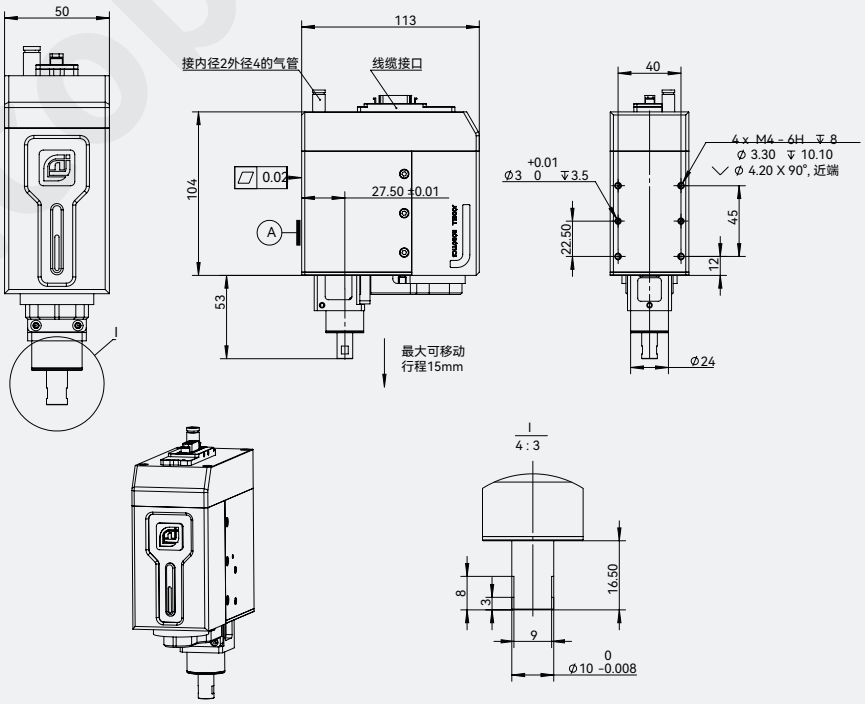
Product parameters

Z-axis	Adjustable stroke	**15 mm**
	Sustained thrust	**27.5 N**
	Peak thrust N	**70 N**
	Force constant	**17.7 N/A**
	Sustained current	**1.55A**
	Peak current	**4A**
	Linear encoder resolution	**0.2 μm**
	Repeat positioning precision	**±2 μm**
Body parameters	Thickness	**50 mm**
	Voltage	**DC 24V±10%**
	Usage environment	**5-40°C, <85%RH**
	Deadweight	**1 kg**

R-axis	Rotation angle	**±360°**
	Rotary encoder resolution	**131072**
	Rotary positioning precision	**±0.01°**
	Rated torque	**0.028 N·m**
	Peak torque	**0.142 N·m**
	Rated current	**1.11A**
	Peak current	**5.33A**
	Radial runout	**±5μm(±1μm customizable)**
Force control repeatability precision	10~150g	**±2g**
	Compliant with international standards	**CE**

Note: The force control repeatability is JODELL laboratory test result, which is related to factors such as matching drive.

LRA-F-15-50V Dimension drawing



LRA-F-30-22

Model:LRA-F-30-22-00-A-P40-S00

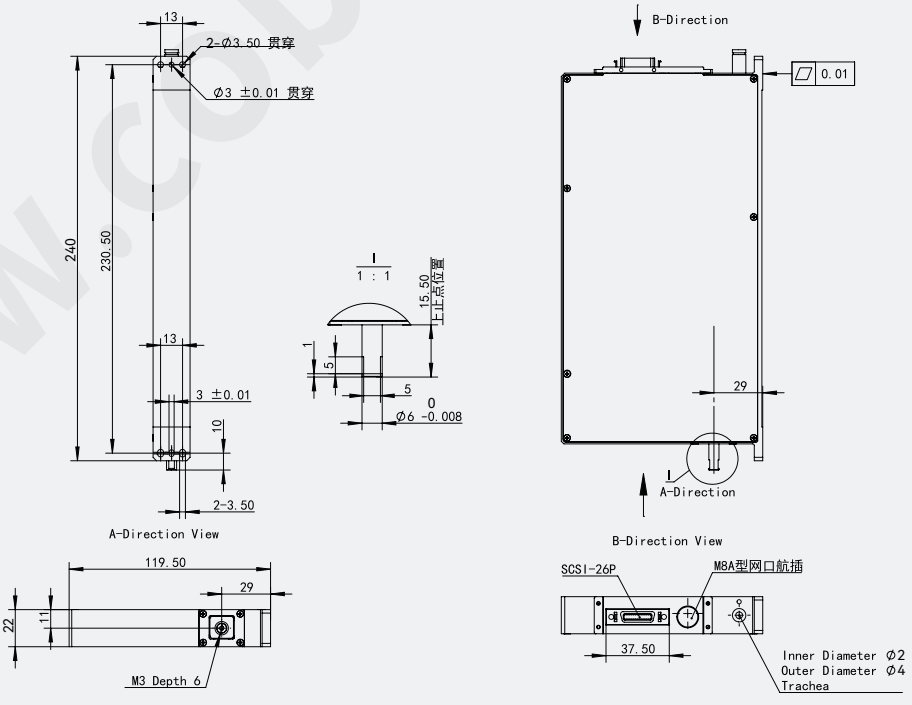
Product parameters

Z-axis	Adjustable stroke	30 mm
	Sustained thrust	8.9 N
	Peak thrust N	28.8 N
	Force constant	5.6 N/A
	Sustained current	1.6A
	Peak current	5.1A
	Linear encoder resolution	0.2 μm
	Repeat positioning precision	±2 μm
Body parameters	Thickness	22mm
	Voltage	DC 48V±10%
	Usage environment	5-40°C, <85%RH
	Deadweight	0.93 kg

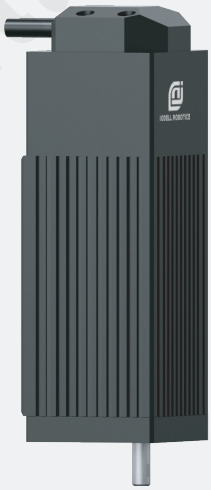
R-axis	Rotation angle	±360°
	Rotary encoder resolution	131072
	Rotary positioning precision	±0.01°
	Rated torque	0.01 N·m
	Peak torque	0.036 N·m
	Rated current	1.2A
	Peak current	1.4A
	Radial runout	±5μm(±1μm customizable)
Force control repeatability precision	10~200g	±1g
	Compliant with international standards	CE

Note: It can achieve force control closed-loop control combined with the drive.

LRA-F-30-22 Dimension drawing



LA SERIES
VOICE COIL LINEAR ACTUATOR



Product features

- **High precision and soft landing**
  The high thrust repeatability can meet the production and assembly needs of high force control precision in semiconductor, photoelectric and other industries.

- **Ultra thin size and adjustable parameters**
  The product is highly controllable, and the speed, thrust and position parameters can be adjusted at any time to set different modes.

- **High speed and high frequency, life up to hundred million times**
  High responsiveness, high speed and high frequency, up to 30Hz or more without load, long service life, stable and durable.

Application scenarios

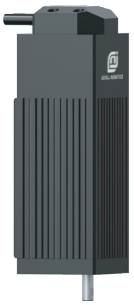
3C electronics | Semiconductor | Precision manufacturing | Education display | Automobiles and related

Naming rule

Product line	Stroke		Thickness		Motor type		Resolution		Supply voltage		IP level
LA	25	–	20	–		–	00	–	A	–	IP40
					None - Linear motor V - Voice coil motor		00 - Straight line 0.2μm + rotation 17 bits by default		A-24V B-48V		P40-IP40

LA10-35V

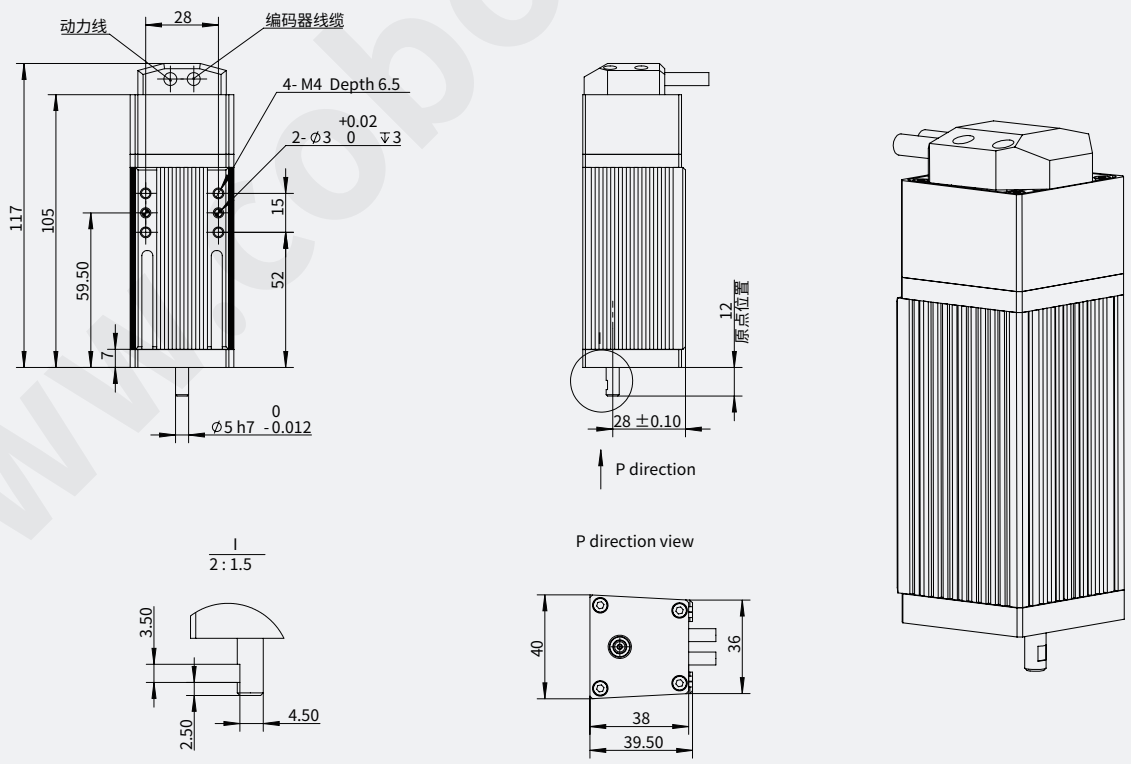
Model: LA10-35V-00-A-P40-S00



Product parameters

Stroke	**10mm**	Inductance	**1.75mH**
Peak thrust	**29.3N**	Voltage	**48V**
Sustained thrust	**13.6N**	Moving mass	**79g**
Peak current	**3.6A**	Encoder resolution	**0.2μm**
Sustained current	**1.65A**	Position repeatability precision	**±5μm**
Force constant	**8.2N/A**	Force control repeatability precision	**10%**
Coil resistance	**3.3Ω**	Idling frequency	**30Hz**
Maximum speed	**1m/s**	Maximum acceleration	**300m/s²**
Total weight	**450g±10**	Cable specification	**3m high flexibility cable (customizable)**
Overall dimensions	**117mm*39.5mm*36mm**	Counterweight weight	**Magnetic counterweight**

LA10-35V Dimension drawing



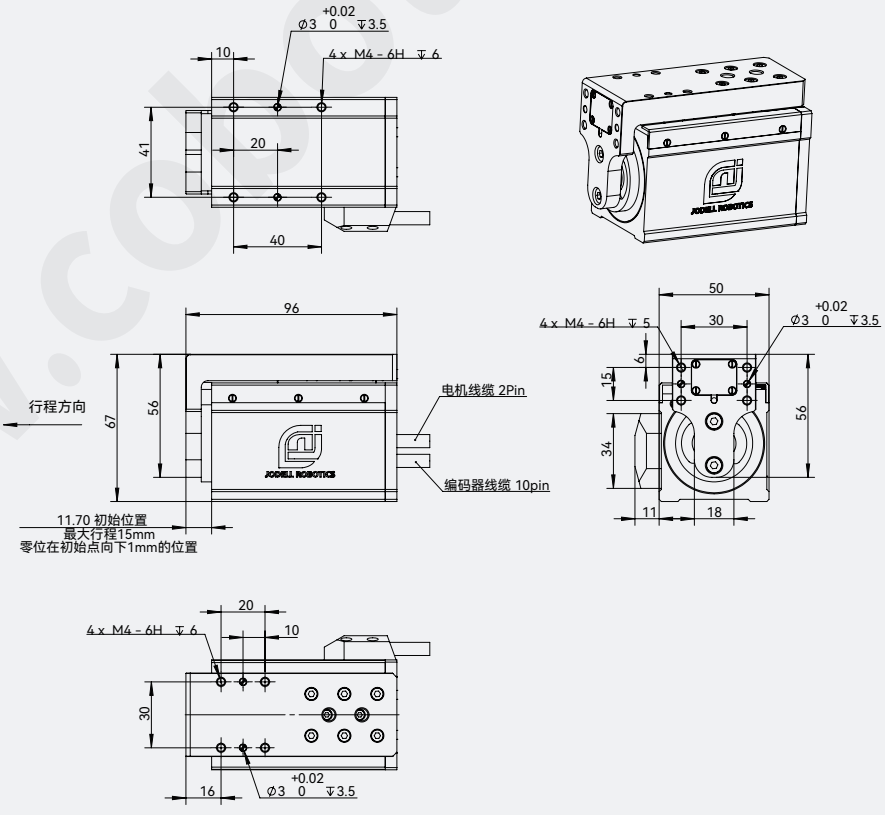
LA15-50V

Model:LA15-50V-00-A-P40-S00

Product parameters

Stroke	**15mm**	Inductance	**2.5mH**
Peak thrust	**70N**	Voltage	**48V**
Sustained thrust	**27.5N**	Idling frequency	**10Hz**
Peak current	**4A**	Moving mass	**180g**
Sustained current	**1.55A**	Encoder resolution	**0.2μm**
Force constant	**17.7N/A**	Position repeatability precision	**±2μm**
Coil resistance	**6.8Ω**	Maximum load	**150g**
Total weight	**580g**	Cable specification	**5m high flexibility cable (customizable)**
Overall dimensions	**96mm*50mm*67mm**	Counterweight weight	**Tension spring**

LA15-50V Dimension drawing



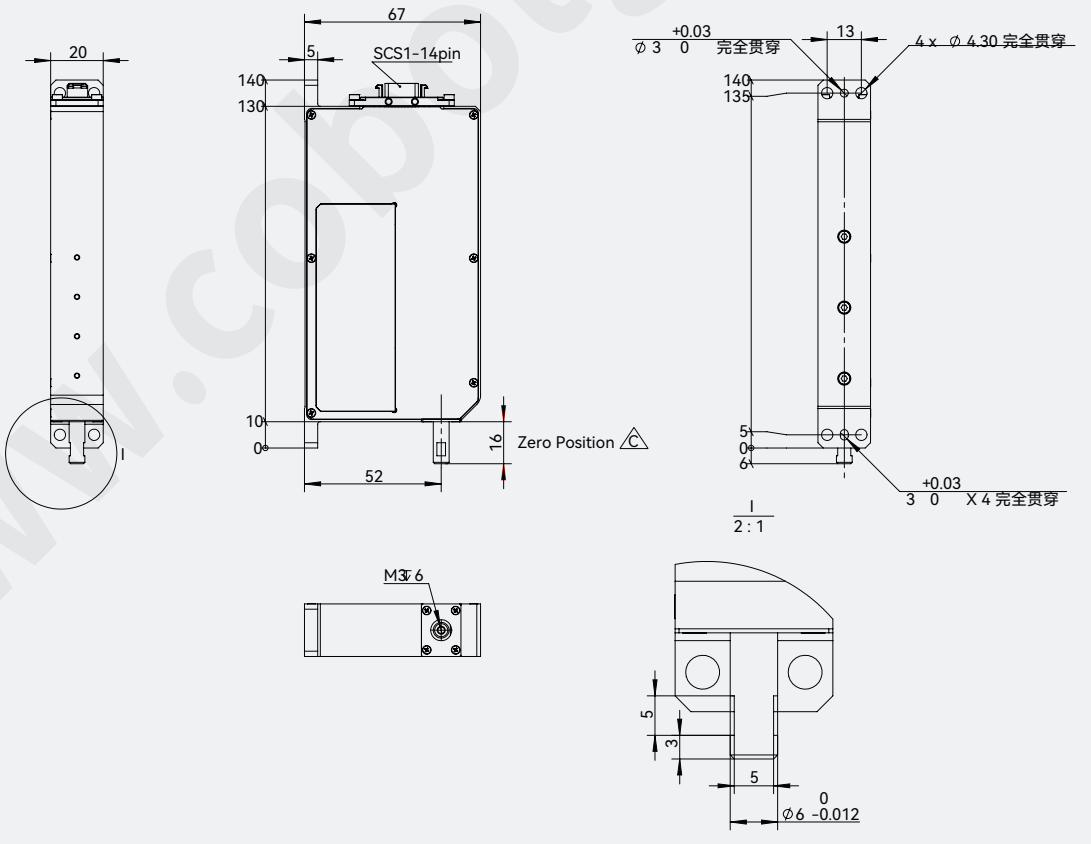
LA25-20

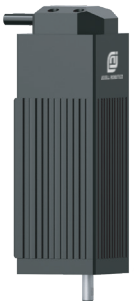
Model: LA25-20-00-A-P40-S00

Product parameters

Stroke	**25mm**	Inductance	**1mH**
Peak thrust	**39.6N**	Voltage	**24V**
Sustained thrust	**12N**	Idling frequency	**10Hz**
Peak current	**5.3A**	Moving mass	**173g**
Sustained current	**1.6A**	Encoder resolution	**0.1μm**
Force constant	**7.5N/A**	Repeat positioning precision	**±2μm**
Coil resistance	**5.1Ω**	Maximum load	**120g**
Total weight	**600g**	Z-axis yaw	**±0.005mm**
Overall dimensions	**140mm*67mm*20mm**	Counterweight weight	**Magnetic counterweight**

LA25-20 Dimension drawing





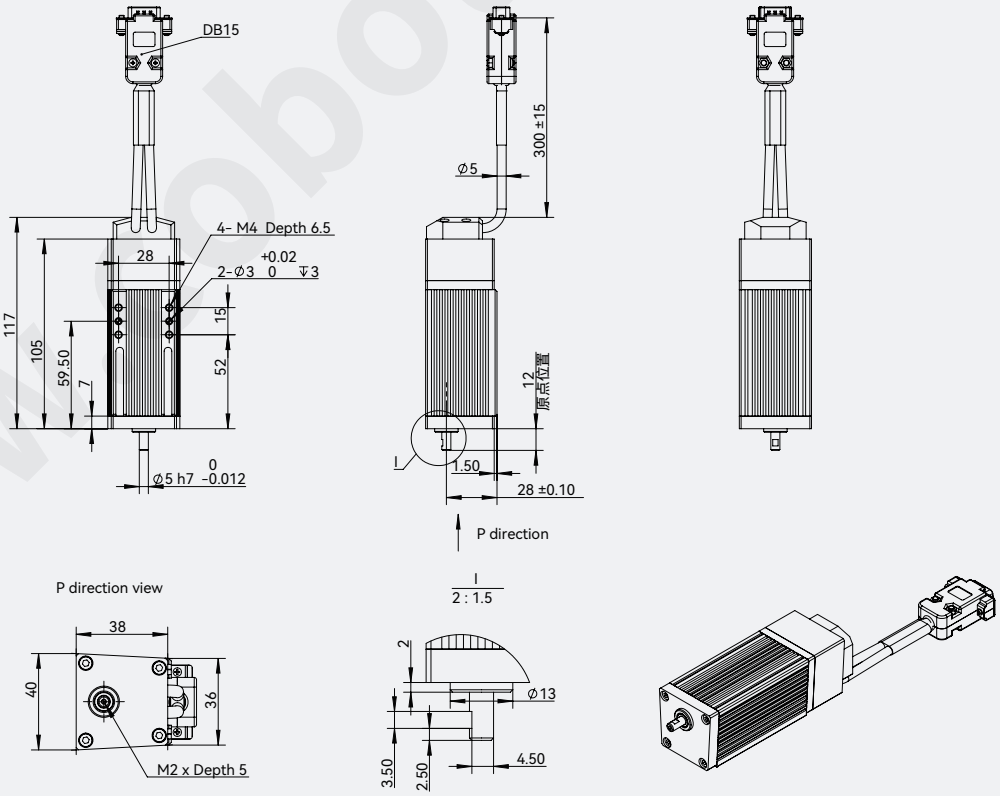
LA-HP10-35V

Model: LA-HP10-35V-00-A-P40-S00

Product parameters

Stroke	**10mm**	Inductance	**1.75mH**
Peak thrust	**29.3N**	Voltage	**48V**
Sustained thrust	**13.6N**	Idling frequency	**30Hz**
Peak current	**3.6A**	Moving mass	**79g**
Sustained current	**1.65A**	Encoder resolution	**0.2μm**
Force constant	**8.2N/A**	Repeat positioning precision	**±2μm**
Coil resistance	**3.3Ω**	Maximum acceleration	**300m/s²**
Total weight	**450g**	Cable specification	**The outlet length of the body is 300mm**
Overall dimensions	**117mm*39.6mm*36mm**	Counterweight spring	**Magnetic counterweight**

LA-HP10-35V Dimension drawing



EVS SERIES
ELECTRIC SUCTION CUPS

Product features

- Portable to use without external air source, saving on air system costs.
- Easy installation and flexible deployment.
- Programmable control, adjustable suction and quick response.
- End replaceable, and expandable to all types of suction cups.
- AB independent two-way control.

Advantages

NO EXTERNAL AIR SOURCE IS REQUIRED

DROP DETECTION

GRAB FEEDBACK

POWER OUTAGE PRESSURE MAINTENANCE

Application scenarios

3C ELECTRONICS

MEDICAL DEVICES

PRECISION MANUFACTURING

ELECTRIC APPLIANCE

EDUCATION

AUTOMOBILES AND RELATED

Naming Rules

Product line	Load		Outlet position	Cable fixed end length		Communication mode		Supply voltage		IP level
EVS	08	–	0	L#	–	C7	–	A	–	P40
			0 - Side outle 1 - Bottom outlet	L#-200mm by default		C7-485+I/O		A-24V		P40-IP40

Note: The above is an example of naming rules

Optional models

Product line	Product model	Communication protocol
EVS01	EVS01-1L#-C7-A-P40-S00	Standard 485+IO (C7 not limited)
EVS08	EVS08-0L#-C7-A-P40-S00	Standard 485+IO (C7 not limited)

EVS01

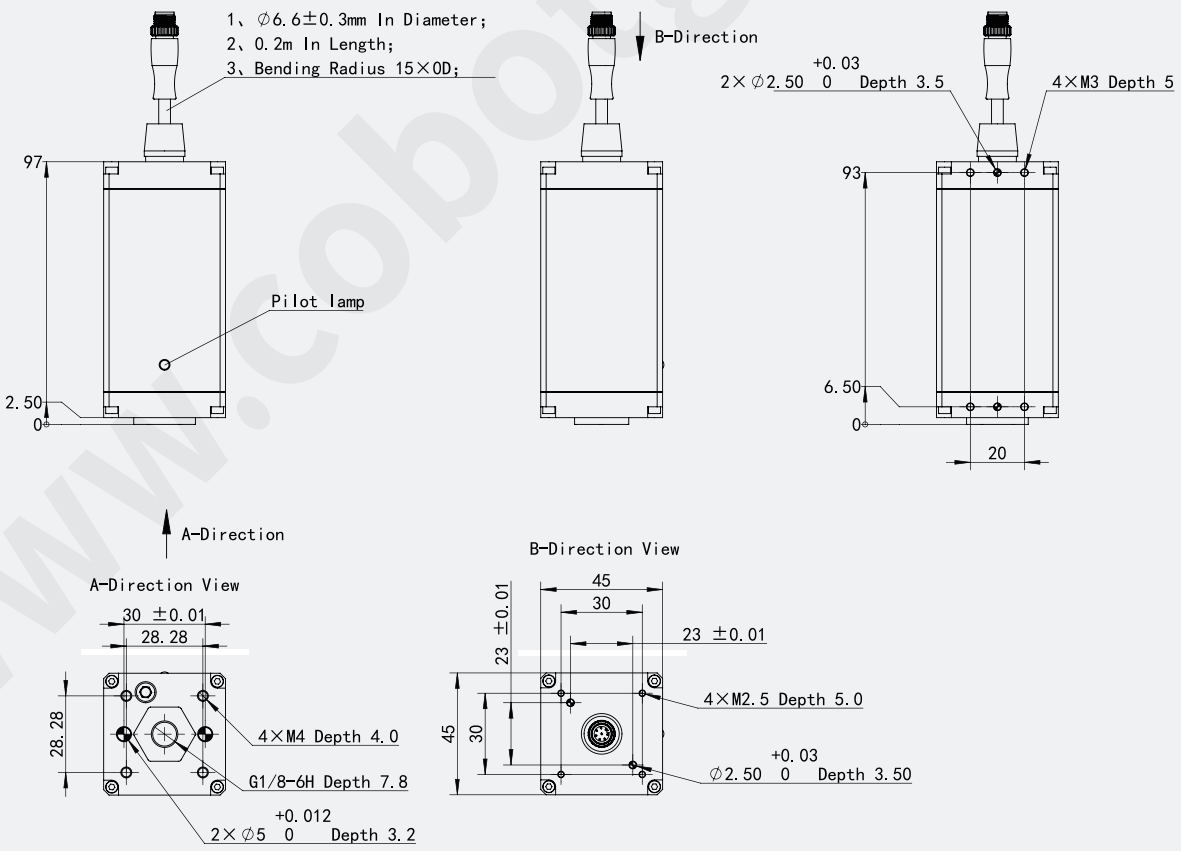
MODEL: EVS01-1L#-C7-A-P40-S00

Product parameters

Vacuum degree	**10%-60%**	Running noise	**< 70dB**
Maximum flow rate	**2.5 L/min**	Rated voltage	**DC 24V±10%**
Deadweight	**0.3 kg**	Rated current	**0.13 A**
Maximum recommended load	**1 kg**	Peak current	**0.3 A**
Minimum adsorption time	**0.2 s**	International standard	**CE、RoHS**
Minimum release time	**0.1 s**	Communication Protocol	**Modbus RTU(RS485)**
Protection level	**IP40**		**Digital I/O**
Working environmen	**0-40℃, <85% RH**		

Note: This product does not include gripping fingers when shipped

EVS01 Dimension drawing



EVS08

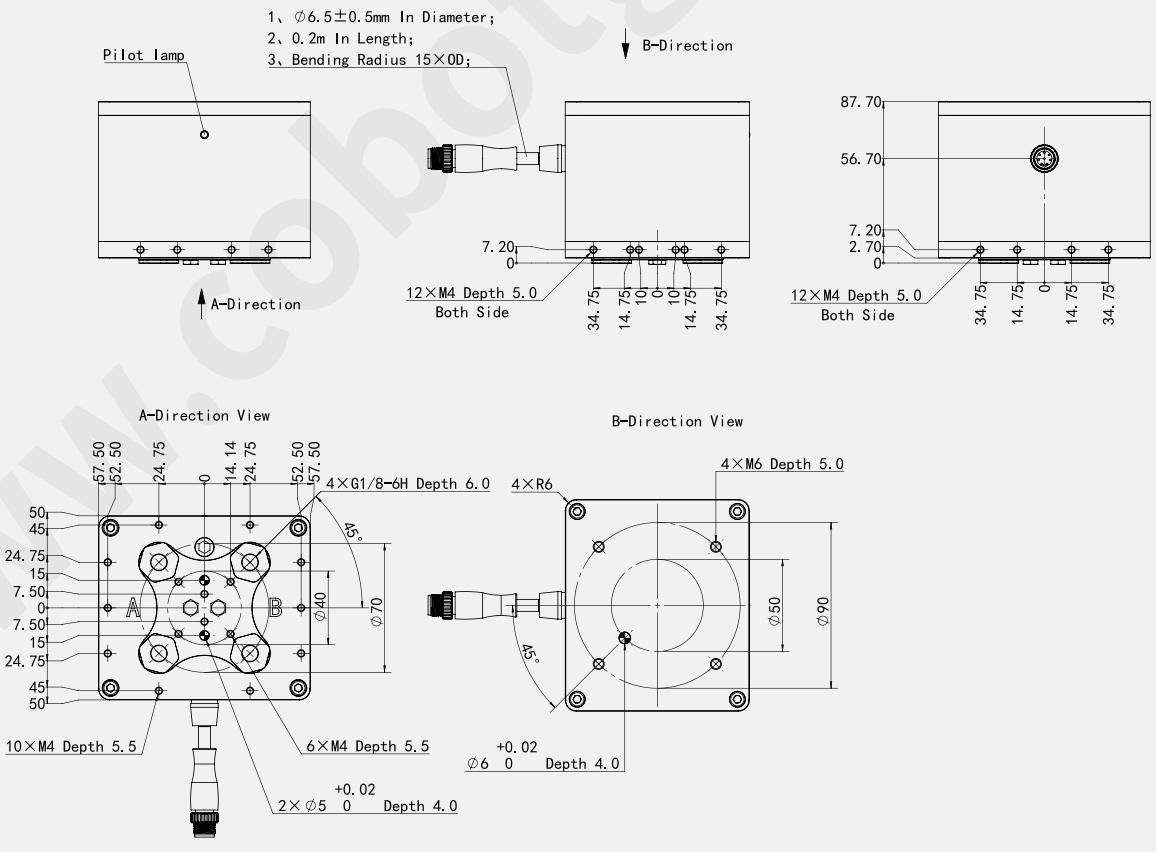
MODEL: EVS08-0L#-C7-A-P40-S00

Product parameters

Vacuum degree	**10%-70%**	Running noise	**< 70dB**
Maximum flow rate	**10 L/min**	Rated voltage	**DC 24V±10%**
Deadweight	**1.4 Kg**	Rated current	**0.5 A**
Maximum recommended load	**8 kg**	Peak current	**3.8 A**
Minimum adsorption time	**0.3 s**	Compliant with international standards	**CE、RoHS**
Minimum release time	**0.2 s**	Communication protocol	**Modbus RTU(RS485)**
Protection level	**IP54**		**Digital I/O**
Usage environment	**0-40℃, <85% RH**		

Note: This product does not include suction cups when shipped

EVS08 Dimension drawing



ERS SERIES
ROTARY VACUUM ACTUATOR

Product features

- Completely independent of an air source, no separate air supply needed
- Fast vacuum breaking, digital control of vacuum degree
- Direction adjustment by 90° or 180° after adsorption

Application scenarios

3C electronics | Semiconductor | Precision manufacturing | Education display | Automobiles and related

Naming rule

Product line	Load weight		Outlet position		Cable fixed end length		Communication mode		Supply voltage		IP level
ERS	01	–	0		L#	–	E0	–	A	–	P40
	01-1kg		0 - Side outlet		L#-200mm by default		E0-EtherCAT		A-24V		P40-IP40

ERS01

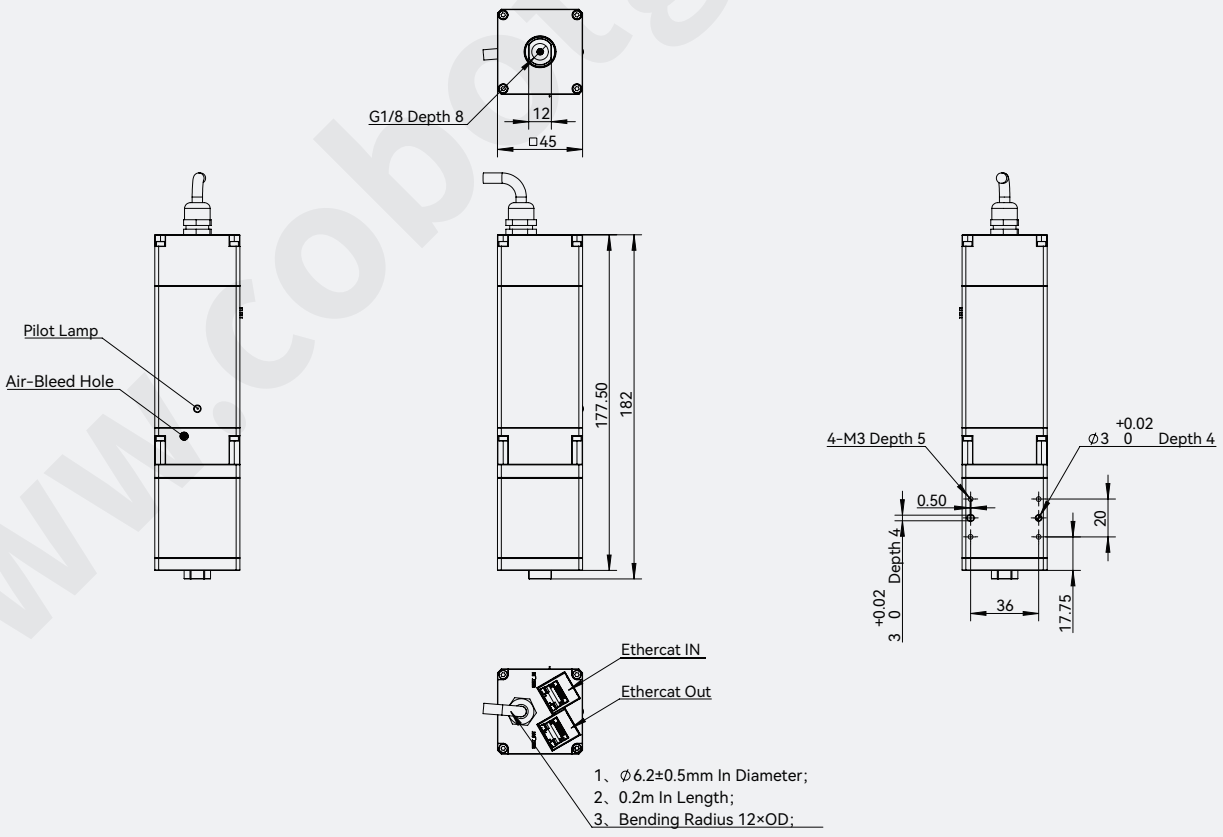
Model:ERS01-0L#-E0A-P40-S-A00

Product parameters

Vacuum degree	**60%**	Rated current	**0.23A**
Maximum flow rate	**2.5L/min**	Peak current	**2.5A**
Maximum recommended load	**1kg**	Rotation angle	**Infinite rotation**
Minimum adsorption time	**0.4s**	Rotation position repeatability precision	**±0.05°**
Minimum release time	**0.15s**	Communication mode	**EtherCAT**
Rated voltage	**DC 24V±10%**	Drop detection	**Support**
Usage environment	**5~40℃, <85%RH**		

Note: This product does not include suction cups when shipped

ERS01 Dimension drawing



WEPG SERIES
WEIGHING GRIPPER

Product features

- Safe and efficient
- Stroke feedback and drop detection
- Intelligent high precision weighing
- Intelligent gripping force control

Application scenarios

3C electronics

Medical devices

Precision manufacturing

Education display

Naming rule

Product line	Maximum capacity		Precision class		Gripping stroke		Outlet position	Cable fixed end length		Communication mode		Supply voltage		IP level
WEPG	05	–	C6	–	040	–	0	L0	–	E0	–	A	–	P20
	03-03kg 05-5kg		C3 C6		030-30mm 040-40mm		0 - Side outlet 1 - Bottom outlet	L0		E0-EtherCAT		A-24V		P20-IP20

WEPG03

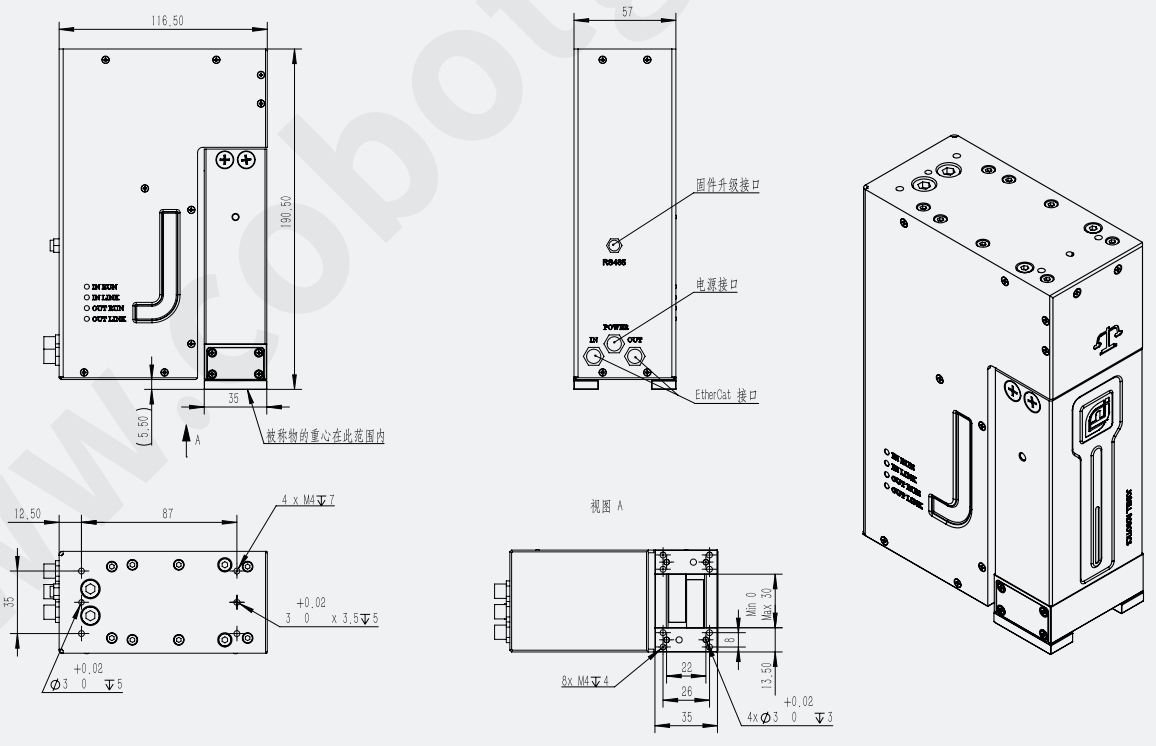
Model:WEPG03-C6-030-0L0-E0-A-P20-S00

Product parameters

Adaptive gripper	**EPG30-150**	Installation levelness	**< ±0.5°**
Deadweight	**2.5kg**	Minimum resolution	**0.01g**
Gripping force	**150N**	Supply voltage	**24 V**
Stroke	**30mm**	Peak current	**1 A**
Gripping speed	**0.8s in 30mm**	Communication interface	**EtherCat**
Maximum weighing range	**3kg**	Operating temperature range	**5-40°C**
Sensor verification precision	**±1g**	Range of temperature	**<6°C** (if maximum precision is required, recalibration is needed beyond the range)

Note: This product does not include gripping fingers when shipped

WEPG03 Dimension drawing



WEPG05

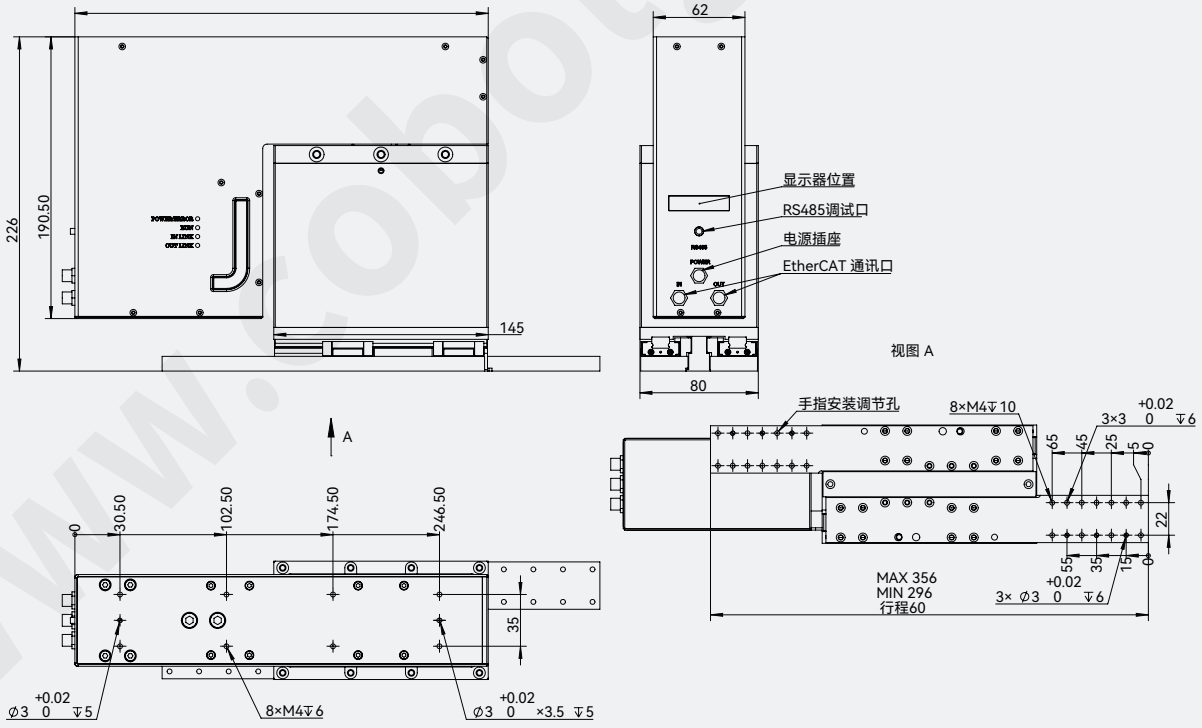
Model:WEPG05-C6-040-0L0-E0-A-P20-C01

Product parameters

Adaptive gripper	**EPG60-300（special model）**	Installation levelness	**< ±0.5°**
Deadweight	**2.5kg**	Display precision	**0.2g**
Gripping force	**300N**	Supply voltage	**24 V**
Stroke	**60mm**	Peak current	**2 A**
Gripping speed	**0.5s in 10mm**	Communication interface	**EtherCat**
Maximum weighing range	**5kg**	Operating temperature range	**5-40°C**
Verification scale interval	**2g**	Range of temperature	**<6°C** (if maximum precision is required, recalibration is needed beyond the range)

Note: This product does not include gripping fingers when shipped

WEPG05 Dimension drawing



WEPG-T-15

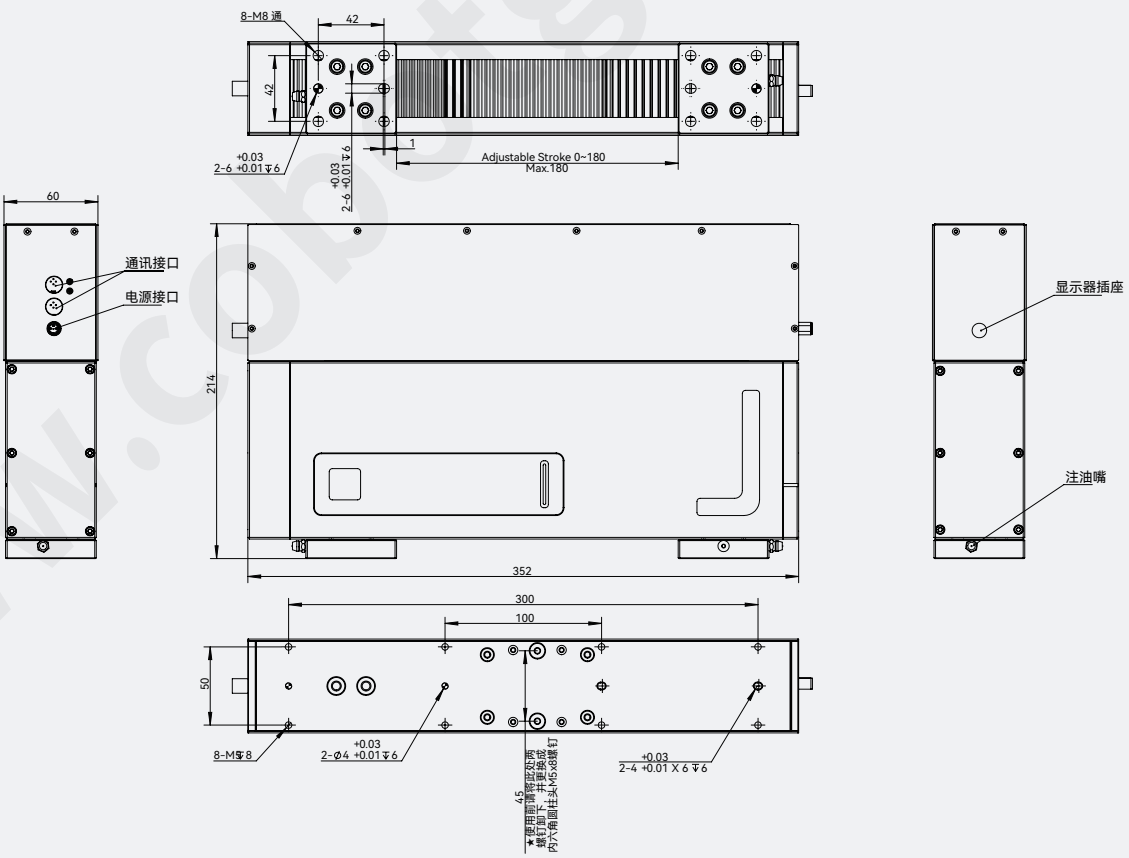
MODEL:WEPG-T-15-C6-180-0-L0-E0-A-P40-S00

Product parameters

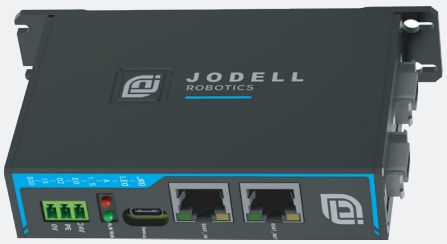
Gripping force	**100-300N**	Installation levelness	**< ±0.5°**
Stroke	**0-180mm**	Display precision	**0.2g**
Gripping speed	**50mm/s**	Supply voltage	**24 V**
Maximum weighing range	**15kg**	Peak current	**2 A**
Verification scale interval	**±0.2g**	Communication interface	**EtherCAT**

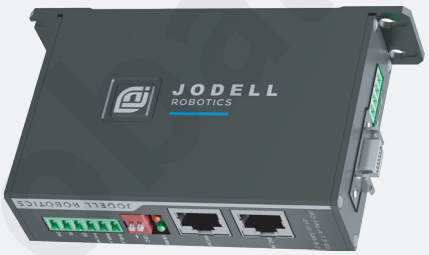
Note: This product does not include gripping fingers when shipped

WEPG-T-15 Dimension drawing



JRD SERIES
DRIVE MODULE





Optional model

Product name	Complete model	Adaptive JODELL main model
JRD-LEO	JRD-LEO-A-1.5-E0-02-IS-S00	LA SERIES
JRD-LEO	JRD-LEO-A-1.5-E0-02-DU-S00	LRA SERIES
JRD-FAL	JRD-FAL-A-1.5-E0-01-IS-S00	EPG/ ELS SERIES

Software specification sheet

Parameter/function	Description	特点
Control cycle	50KHz	High-speed control response ensures precise motion control, suitable for high-precision and high-speed applications.
Soft landing	Support for smooth contact and stop control	Prevents the impact of the motion mechanism or material during contact and improve the equipment life and product quality.
Position control	Sub-micron level position control precision	Suitable for scenarios where high-precision positioning is required, such as precision control and laser marking.
Automatic position finding	Automatically identifies the maximum stroke by stalling	Automatically identifies the maximum stroke of the range of motion after equipment installation, simplifying the debugging process and improving the installation efficiency.
Stacking safety alarm	Prevents chip lamination during handling of chip wafers	Monitors the stacking situation during handling in real time to avoid chip lamination damage and to ensure the safety and chip quality in the production process.
Accurate force control	Achieves accurate force control and feedback	Adapts to various load changes to ensure stable output in complex environment
Parameter adaptation	Supports automatic adjustment of control parameters	Adaptive adjustment of the control strategy simplifies the debugging process, adapts to various working conditions, and reduces engineer intervention.
Trajectory planning	Supports cycloidal trajectory and higher order spline trajectory planning	Reduces the acceleration impact and vibration during motion, ensuring smooth and precise motion, and extend the guide rail life for high-speed and high-precision scenarios.
Motion model identification	Automatically analyzes the motion characteristics and optimizes the control strategies	Improves the system control precision, and adapts to different loads and environmental conditions to ensure stable motion performance.

Hardware function specification				
Voltage range VDC(v)	24-48	24-48	24-48	24-48
Rated voltage VDC(v)	24	24	24	24
Rated current Arms	1.5	3	5	10
Peak current Apeak	3	6	10	20
Control mode				
EtherCAT	OC mode, real-time communication frequency <= 4K			
Type-C	PC port application, debugging and diagnosis interface			
Encoder type				
Incremental encoder	Differential orthogonal, 4 Mbps			
Absolute value encoder	Tamagawa √ Nikon√ SSI√ BISS-C√			
I/O				
General DI	12~24V	Source type/sink type		
General DO	12~24V	Source type/sink type		
Analog input	Customizable			
Other functions				
Contracting brake function	Support			
Current sampling precision	16 bits			
STO function	Support			
Temperature detection	Support			
Environment				
Industrial environment	Operating: 0 ~ +45℃; storage: -20 ~ +65℃			

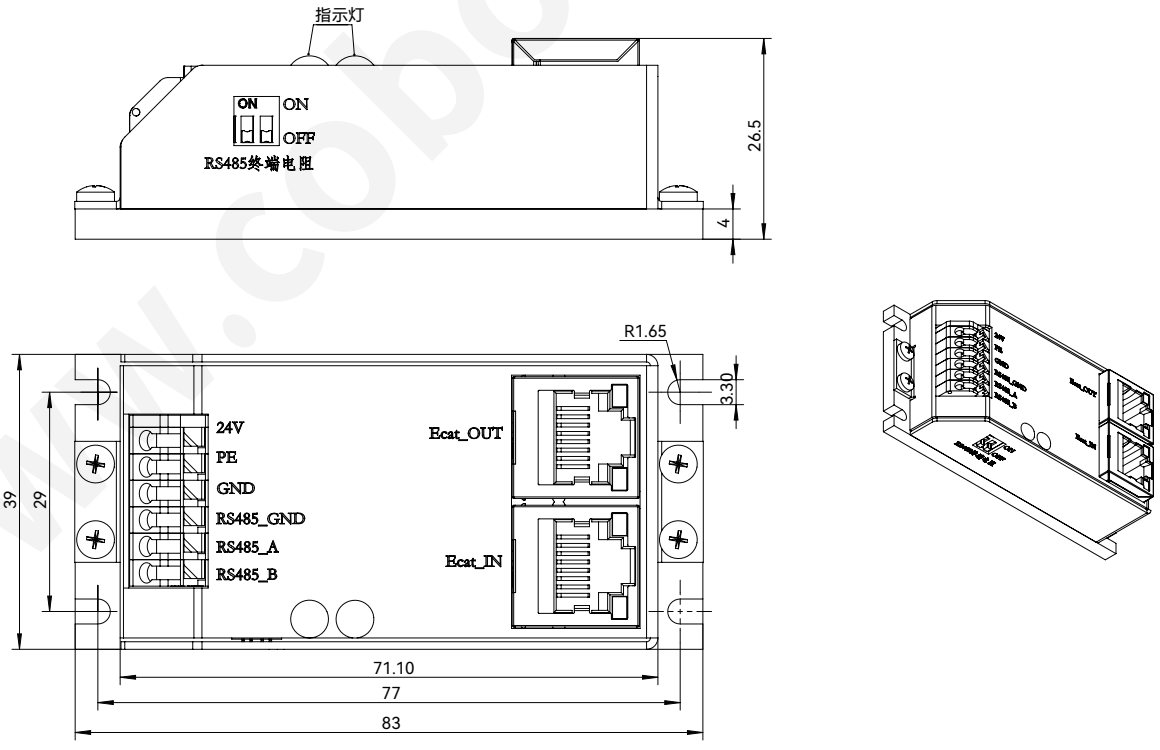
CPCM SERIES
CONVERSION MODULE

Product features

- EtherCAT: supports DC mode, real-time communication cycle >=1ms;
- RS485: communication baud rate >115200bsp, communication cycle <15ms;
- Modbus: supports function codes 0x10, 03, 04

CPCM Dimension drawing

MODEL: CPCM-0-B-C-A-0



LEIS SERIES

LITHIUM BATTERY INTEGRATION SOLUTION OF PARALLEL GRIPPER

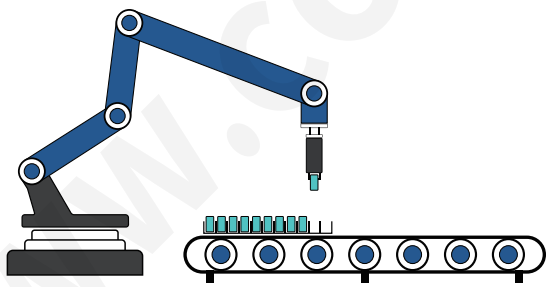
Product features

- **High security**
  Independent gripper control, with contracting brake and drop detection
- **High flexibility**
  The number and spacing of grippers are customizable.
- **High integration**
  Improves the design, installation, commissioning and maintenance efficiency.

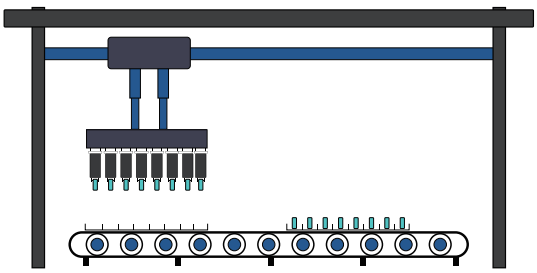
Application scenarios

In the automatic handling scenario, multiple workpieces may be transferred simultaneously to improve the handling efficiency. A common solution is to store multiple workpieces on a transfer tray before overall handling. However, this solution increases the loading and unloading time for the tray itself. Therefore, in some specific scenarios, the more ideal solution is to handle multiple workpieces simultaneously.

Scenario 1



Scenario 2



Optional model

Product name of single gripper	Complete model
EPG22-300	LEIS-1×12-EPG-22-300-0-A-P20-C2-1
EPG30-200	LEIS-1×8-EPG-30-200-E0-A-P20-C03

EPG22-300

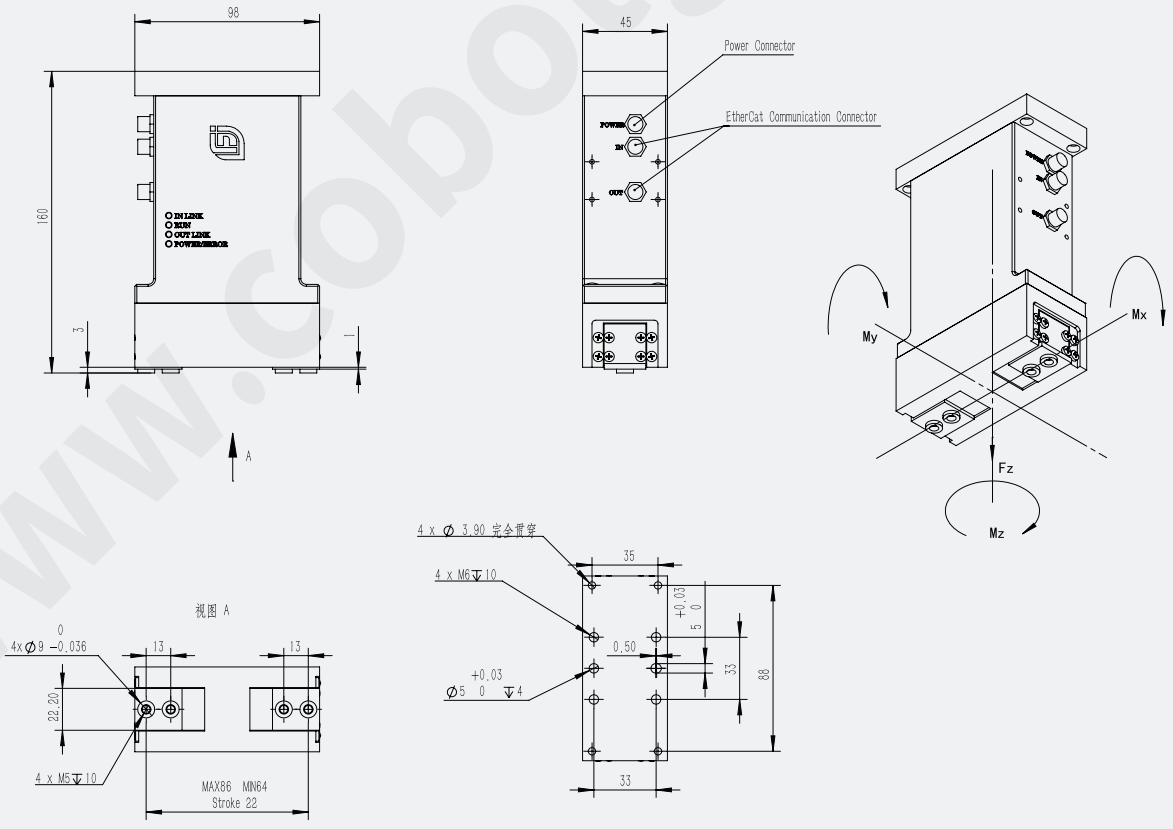
Model:EPG22-300-0L5000-0-O-A-P40-S

Product parameters

Adjustable stroke	**0-22mm**	Supply voltage	**DC 24V±10%**
Deadweight	**1.8kg**	Steady current	**0.55A**
Gripping time	**≤0.5s**	Communication mode	**Built-in drive and control, EtherCat**
Gripping force	**50-300N**	Allowable force Fz	**1500N**
Power outage pressure maintenance	**Support**	Allowable torque Mx	**22N·m**
Drop detection	**Support**	Allowable torque My	**50N·m**
Power failure memory	**Support**	Allowable torque Mz	**25N·m**
Position repeatability precision	**±0.05mm**	Maximum recommended load for single gripper	**4kg**

Note: This product does not include gripping fingers when shipped

EPG22-300 Dimension drawing



EPG30-200

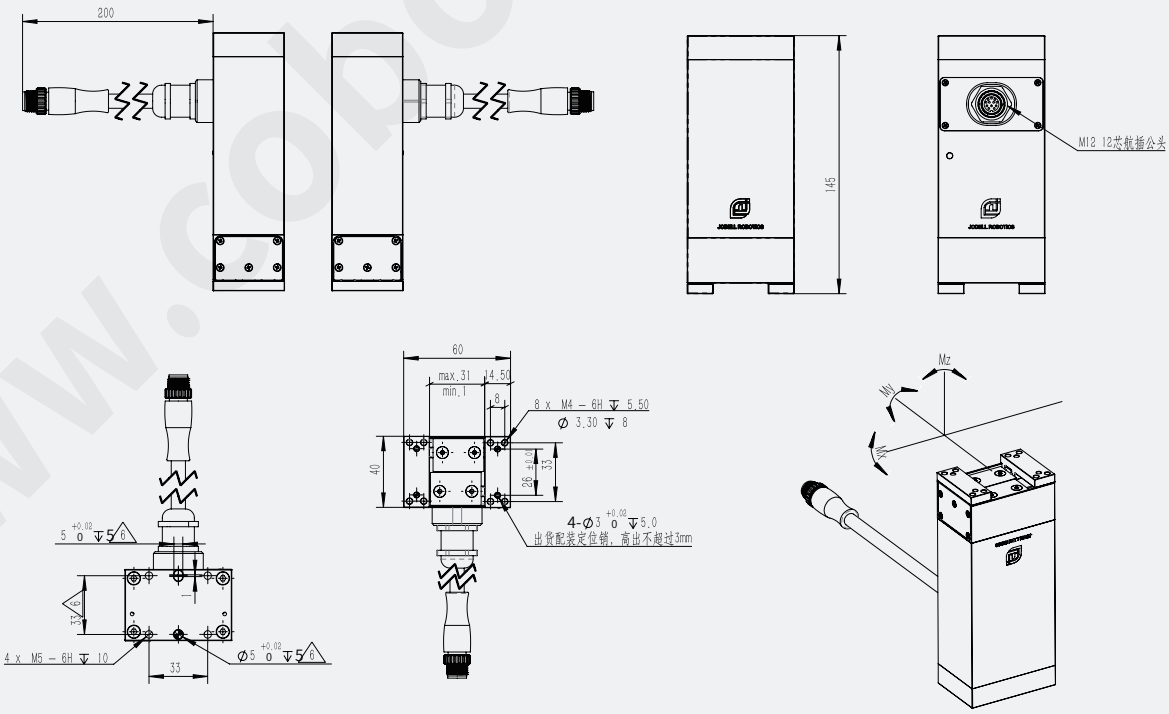
Model: EPG-30-200-0L5000-0-0-A-P40-S

Product parameters

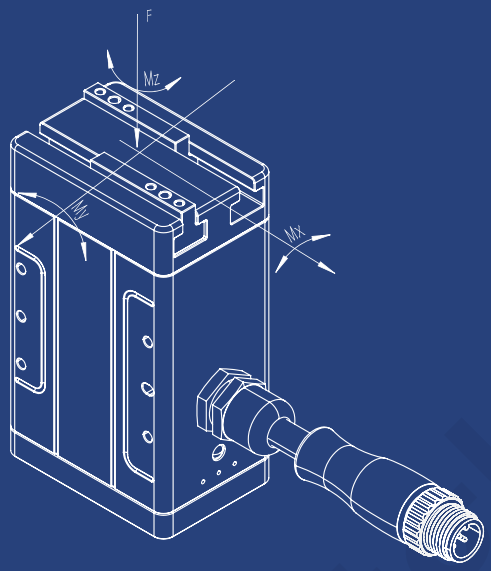
Adjustable stroke	**0-30mm**	Supply voltage	**DC 24V±10%**
Deadweight	**1.4kg**	Maximum current	**1A**
10mm opening/closing time	**≤0.5s**	Communication mode	**ModBus RTU485+IO(3D1+3D0)**
Maximum gripping force of single finger	**200N**	Cable length	**Panel interface at the gripper end**
Power outage pressure maintenance	**Support**	Allowable torque Mx	**10N·m**
Drop detection	**Support**	Allowable torque My	**14N·m**
Power failure memory	**Support**	Allowable torque Mz	**14N·m**
Opening/closing repeatability precision	**±0.05mm**	Maximum recommended load for single gripper	**4kg**

Note: This product does not include gripping fingers when shipped

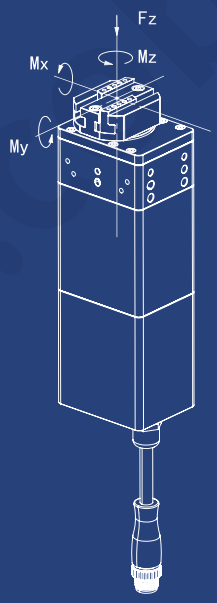
EPG30-200 Dimension drawing



OVERTURNING MOMENT SKETCH



EPG SERIES TORQUE DIAGRAM

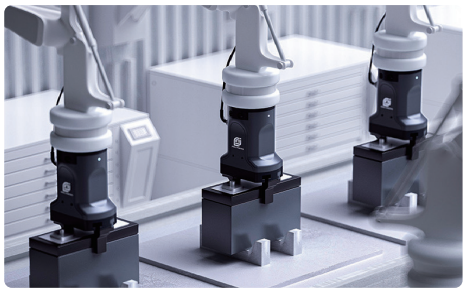


ERG SERIES TORQUE DIAGRAM

PRODUCT APPLICATION EXAMPLE

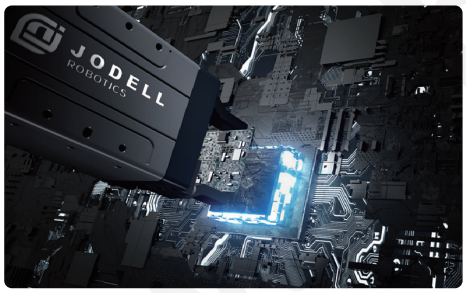
MEDICAL AUTOMATION EQUIPMENT FIELD

The micro-drive and control integrated electric gripper and rotary gripper integrated electric servo gripper independently developed by Jodell for in vitro diagnosis and laboratory automation equipment have been applied in many detection automation equipment systems. The compact integrated structure greatly simplifies the cumbersome integrated design of gripper equipment in the past. Functions such as drop detection, grab feedback and power failure self-locking make the equipment more intelligent.



LITHIUM-ION BATTERY AUTOMATION EQUIPMENT FIELD

There are many scenarios that require robots to load and unload materials in the PACK production of power batteries, and we have developed a heavy-duty modular electric gripper especially for these scenarios. The gripper is adjustable and controllable in torque, speed and position, and also allows for self-locking in case of power failure, large stroke drop detection, and grab feedback. The design of three-sided installation makes the equipment adaptable.



3C COMPONENT ASSEMBLY TESTING FIELD

Jodell has designed and developed electric grippers that are more suitable for irregular components in the 3C field, which have extremely high appearance requirements for component gripping. Its high-frequency, high-precision and other functional characteristics make component gripping in the 3C field no longer difficult.

PACKAGING AUTOMATION EQUIPMENT FIELD

Due to the need to maintain non-destructive packaging, food packaging, pharmaceutical packaging and other packaging areas require precise force control of the clamping equipment, and due to the high frequency of use, they also require high frequency and stability of package clamping. The modular electric grippers from Jodell are perfectly suited to the gripping requirements of the packaging industry and provide an excellent solution for the industry.

OUR SERVICES

WE ARE YOUR SERVICE SPECIALIST, MORE THAN A PRODUCT SUPPLIER.

WE HOPE TO WORK WITH YOU THROUGH THE LIFE CYCLE OF EACH PRODUCT. WE ARE COMMITTED TO PROVIDING YOU WITH COMPREHENSIVE SERVICES GUIDED BY PRODUCTS AND MARKETS, AND CONTINUOUSLY IMPROVING AND OPTIMIZING ACCORDING TO YOUR COMMENTS.

Offline service + online service

YOU CAN GET THE REQUIRED PRODUCT INFORMATION OR SERVICE BY CALLING OUR HOTLINE OR VISITING OUR COMPANY. OUR EXPERIENCED SERVICE PERSONNEL ARE ALSO READY TO GO TO THE SITE TO PROVIDE EXPERT ADVICE AND CARRY OUT SERVICE WORK IF NECESSARY.

YOU MAY ALSO GET PRODUCT AND SERVICE DETAILS BY FOLLOWING OUR SOCIAL MEDIA ACCOUNTS.

WEBSITE WECHAT VIDEO TIKTOK

Service contract

WE PROVIDE CORRESPONDING SERVICE CONTRACTS TO GUARANTEE TECHNICAL SUPPORT IN THE EVENT OF A MALFUNCTION, SO THAT YOU CAN PLAN YOUR PRODUCTS FOR THE LONG TERM.

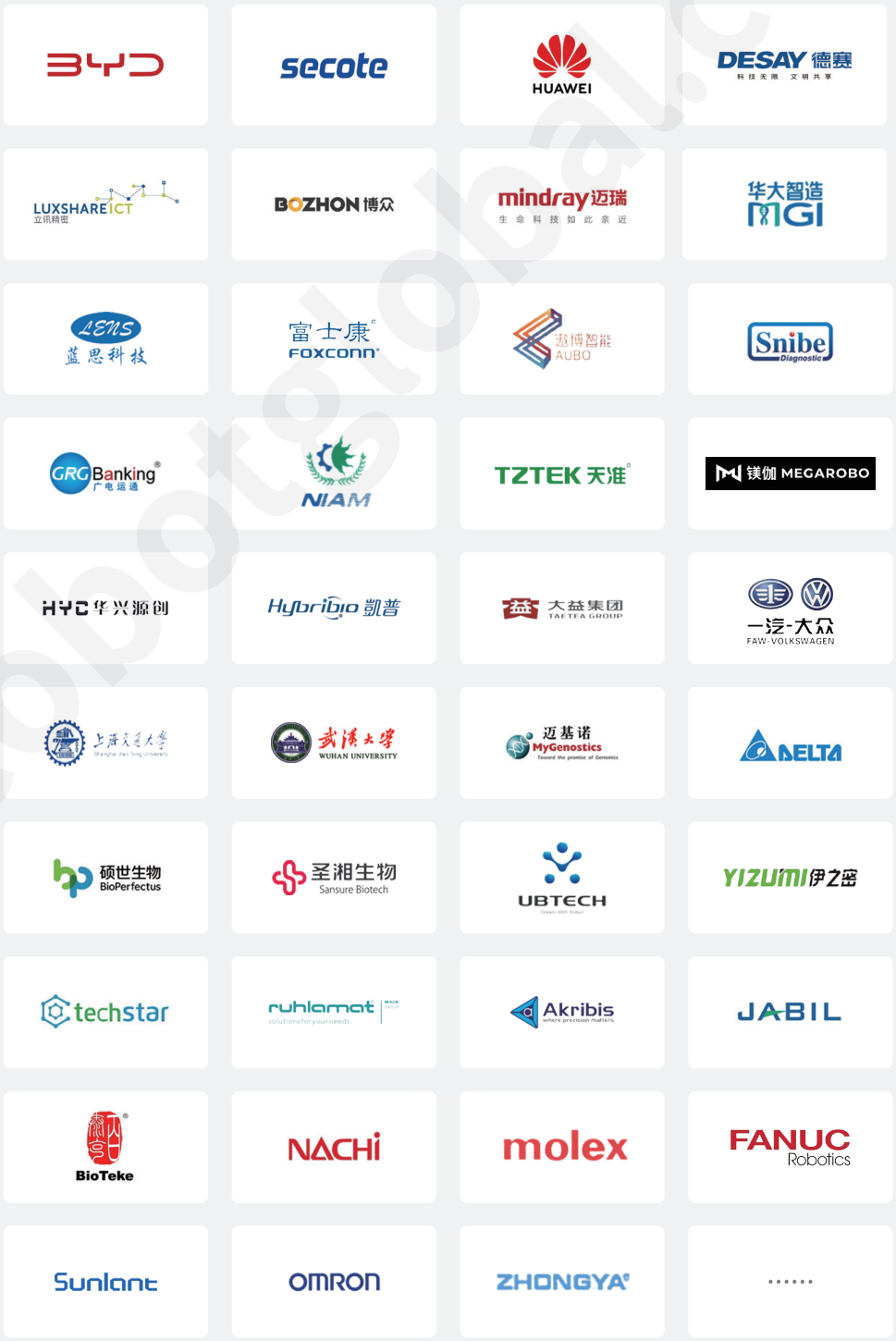
Spare parts service

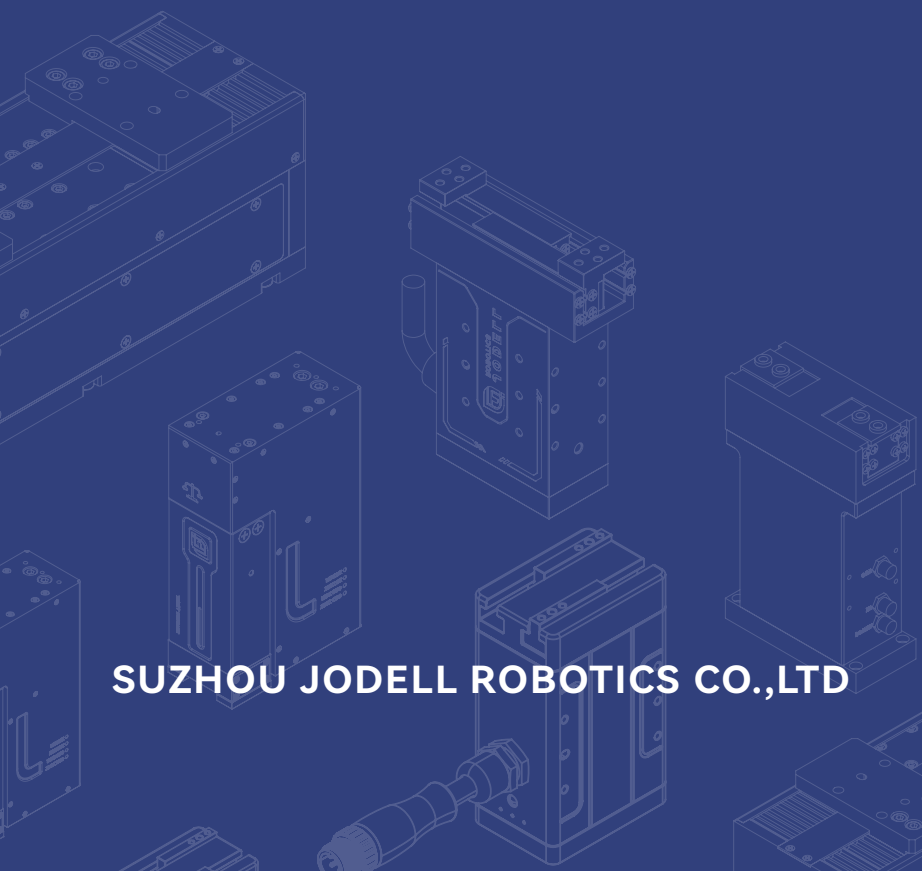
WE KNOW ALL THE SPARE PARTS REQUIRED FOR OUR PRODUCTS AND WILL USUALLY SUPPLY THEM TO YOU AT THE RIGHT PRICE AND WITH SUPERIOR QUALITY BASED ON PROFESSIONAL CONSULTATION.

KEY ACCOUNT

100+

- INTELLIGENT MANUFACTURING
- BIOMEDICINE
- SEMICONDUCTOR
- NEW ENERGY
- ROBOTICS





SUZHOU JODELL ROBOTICS CO.,LTD

Jodell Robotics, 2/F, Building 3, Phase 2 of Tengfei Industrial Building, No.1508,
Linhu Avenue, Fenhu Hi-Tech Development Zone, Wujiang, Suzhou, Jiangsu

WeChat official account

Official customer service

Version No: 25.01