Changingtek Robotics Technology (Suzhou) Co., Ltd.

Product Catalog

Provide Adaptable, Reliable, Safe, and Intelligent Robotic Grasping Solutions for Smart Manufacturing

COPRORATE CULTURE

Committed to becoming a global leader in robotic grasping technology

Provide flexible, reliable, safe, and intelligent robotic products and system solutions for customers through innovative robotics and AI technologies.

MISSION

Empower intelligent manufacturing with core technologies, reshape industrial efficiency, and serve the future of humanity.

VISION

The industrial cornerstone of embodied intelligence, a global leader in core components and equipment.

VALUES

- Devotion
- Excellence
- Openness
- Agility

COMPANY PROFILE

Changingtek Robotics Technology (Suzhou) Co., Ltd., founded in August 2018, has rapidly grown into a national high-tech enterprise specializing in the research, development, and manufacturing of dexterous hands and embodied intelligence robots. Backed by an experienced R&D team and deep insights into technologies across multiple industries, the company has successfully established three core intelligent ecosystem technologies: Mechanical Intelligence (adaptive and reconfigurable technology), Perception Intelligence (multi-information fusion technology), and Drive & Control Intelligence (AI-based control technology).

Building on this foundation, our company has launched the Changingtek hand series, which encompasses four major categories: industrial parallel grippers, collaborative grippers, dexterous hands, and heavy-duty grippers. These products deliver flexible, reliable, safe, and intelligent robotic solutions for a wide range of fields, including aerospace, industrial manufacturing, warehousing and logistics, education and research, and life sciences.

Headquartered in Taicang, Suzhou, the company operates four major bases across China and has partner agents in North America and Europe. It has secured over 150 intellectual property rights, won more than 60 domestic and international awards, and completed Series B financing totaling nearly RMB 100 million, supporting its continued growth and innovation.

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FULL RANGE OF PRODUCTS OVERVIEW

Collaborative Gripper Series

90 Collaborative Two-Finger Gripper
I CTAG2F90 >Page08

Maximum Gripping Force: 23 N
Repeat Positioning Accuracy: ±0.05 mm
Self-Weight: 0.7 kg
Communication Protocol: Modbus RTU/IO

120 Collaborative Two-Finger Gripper
I CTAG2F120 >Page10

Maximum Gripping Force: 80 N
Repeat Positioning Accuracy: ±0.03 mm
Self-Weight: 1.5 kg
Communication Protocol: Modbus RTU/IO

Modular Two-Finger Gripper
I CTM2F110E >Page12

Maximum Gripping Force: 50 N
Repeat Positioning Accuracy: ±0.03 mm
Self-Weight: 0.75 kg
Communication Protocol: Modbus RTU/IO

50F-D Collaborative Two-Finger Gripper
I CTPM2F50F-D >Page14

Maximum Gripping Force: 60N
Repeat Positioning Accuracy: ±0.02mm
Self-Weight: 1.3kg
Communication Protocol: Modbus RTU/IO

20 Collaborative Two-Finger Gripper
I CTIM2F20 >Page16

Maximum Gripping Force: 10 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 0.4 kg
Communication Protocol: Modbus RTU

90D Collaborative Two-Finger Gripper
I CTAG2F90-D >Page09

Maximum Gripping Force: 25 N
Repeat Positioning Accuracy: ±0.03 mm
Self-Weight: 0.8 kg
Communication Protocol: Modbus RTU/IO

120SD Collaborative Two-Finger Gripper
I CTAG2F120S-D >Page11

Maximum Gripping Force: 50N
Repeat Positioning Accuracy: ±0.03mm
Self-Weight: 1.1kg
Communication Protocol: Modbus RTU/IO

Modular Three-Finger Gripper
I CTM3F123 >Page13

Maximum Gripping Force: 50 N
Repeat Positioning Accuracy: ±0.03 mm
Self-Weight: 1.2 kg
Communication Protocol: Modbus RTU/IO

20 Parallel Three-Finger Gripper
I CTPM3F20 >Page15

Maximum Gripping Force: 40 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 1.2 kg
Communication Protocol: Modbus RTU

Parallel Gripper Series

8S Parallel Two-Finger Gripper
I CTPM2F8S >Page18

Maximum Gripping Force: 3 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 0.3 kg
Communication Protocol: Modbus RTU/IO

14 Parallel Two-Finger Gripper
I CTPM2F14 >Page20

Maximum Gripping Force: 24 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 0.6 kg
Communication Protocol: Modbus RTU/IO

26 Parallel Two-Finger Gripper
I CTPM2F26 >Page22

Maximum Gripping Force: 35 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 0.95 kg
Communication Protocol: Modbus RTU/IO

40S Parallel Two-Finger Gripper
I CTPM2F40S >Page24

Maximum Gripping Force: 60-300 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 1.1 kg
Communication Protocol: Modbus RTU/IO

60S Parallel Two-Finger Gripper
I CTPM2F60S >Page26

Maximum Gripping Force: 350-700 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 2.1 kg
Communication Protocol: Modbus RTU/IO

10 Parallel Three-Finger Gripper
I CTPM3F10E >Page28

Maximum Gripping Force: 15 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 0.85 kg
Communication Protocol: Modbus RTU+IO

14S Parallel Two-Finger Gripper
I CTPM2F14S >Page19

Maximum Gripping Force: 15 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 0.4 kg
Communication Protocol: Modbus RTU/IO

20 Parallel Two-Finger Gripper
I CTPM2F20 >Page21

Maximum Gripping Force: 24 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 0.8 kg
Communication Protocol: Modbus RTU/IO

30 Parallel Two-Finger Gripper
I CTPM2F30 >Page23

Maximum Gripping Force: 35 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 1.2 kg
Communication Protocol: Modbus RTU/IO

40 Parallel Two-Finger Gripper
I CTPM2F40 >Page25

Maximum Gripping Force: 100 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 1.2 kg
Communication Protocol: Modbus RTU/IO

120 Parallel Two-Finger Gripper
I CTPM2F120 >Page27

Maximum Gripping Force: 250 N
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 2.8 kg
Communication Protocol: Modbus RTU/IO

Dexterous Hand Series

Fuyi Bionic Two-Finger Hand I CTAG1F65 >Page30

Maximum Gripping Force: 17 N
Repeat Positioning Accuracy: ±0.03 mm
Self-Weight: 0.38kg
Communication Protocol: Modbus RTU

Jiuzhang Dexterous Three-Finger Hand I CTDH3F110 >Page32

Maximum Gripping Force: 4 N(per finger)
Repeat Positioning Accuracy: ±0.02 mm
Self-Weight: 1.04 kg
Communication Protocol: Modbus RTU

QianJi-Embodied Dexterous Five-Finger Hand I CTDH5FS >Page34

Control Accuracy: 0.1 / 0.1 mm/N
Repeat Positioning Accuracy: ±0.03 mm
Maximum Grasp Acceleration: 10 mm/s
Communication Protocol: Modbus RTU

Gripping Three-Finger Hand I CTMG3F60 >Page31

Maximum Gripping Force: 50 N
Repeat Positioning Accuracy: ±0.03 mm
Self-Weight: 1.1 kg
Communication Protocol: Modbus RTU+IO

Lingsi Dexterous Four-Finger Hand I CTDH4F08D >Page33

Maximum Gripping Force: 6 N (per finger)
Repeat Positioning Accuracy: ±0.15 mm
Self-Weight: 0.7 kg
Communication Protocol: Modbus RTU

Drivers Series

Pneumatic Active Driver I CTPAD-S >Page36

Output Air Pressure	-80 ~200 kPa
Working Noise	60dB
Rated Power	48W
Net Weight	2kg
IP	IP40
Communication Protocol	Manual Button, I/O + Analog Signal, MODBUS RTU

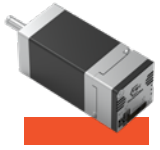
Humanoid Robot Series

◆ **Humanoid Robots Series** >Page38

Robot Folding Height	650mm
Robot Extension Height	1800mm
Arm Span Range	850mm
Vertical Working Range of Arm	0~2200mm
Total Weight	170kg
Body Degrees of Freedom	22Dof

Integrated Actuator Series

◆ **28 Servo Stepper Motor Protocol**
I CTSDM28-A1 >Page40

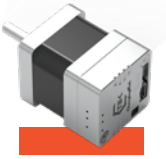


Rated Torque: 0.1Nm (low speed)
Maximum Speed: 3000RPM
Body Length: 66.2mm
Communication Protocol: Modbus RTU/IO

◆ **42 Servo Stepper Motor Protocol**
I CTSDM42-A1 >Page42

Rated Torque: 0.4Nm (low speed)
Maximum Speed: 2400RPM
Body Length: 54mm
Communication Protocol: Modbus RTU/IO

◆ **35 Servo Stepper Motor**
I CTSDM35-A1 >Page41



Rated Torque: 0.16Nm (low speed)
Maximum Speed: 3000RPM
Body Length: 46.8mm
Communication Protocol: Modbus RTU/IO

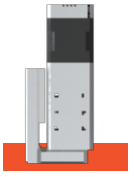
◆ **28 Servo Stepper Motor Protocol**
I CTMS28-W50 >Page43

Maximum Thrust: 300 N
Stroke: 50 mm(customizable stroke)
Repeat Positioning Accuracy: ±0.02 mm
Communication Protocol: Modbus RTU

Mini Push Rod Slide Table I CTMS35-N30 >Page44

Stroke: 30 (It can be customized)
Force Control Accuracy: ±0.1N
Ball Screw Diameter: 6mm
Communication Protocol: Modbus RTU/IO

Mini Push Rod Slide Table I CTMS42-N30 >Page45



Stroke: 30 (It can be customized)
Force Control Accuracy: ±0.1N
Ball Screw Diameter: 6mm
Communication Protocol: Modbus RTU/IO

CTLA28 Electric Cylinder I CTLA28 >Page46

Rated Torque: 0.1Nm
Repeat Positioning Accuracy: 300 mm
Maximum Recommended Load: ±0.02 mm
Effective Stroke: 8 kg

CTLA42 Electric Cylinder I CTLA42 >Page47

Rated Torque: 0.4 Nm
Maximum Stroke: 600 mm
Repeat Positioning Accuracy: ±0.02 mm
Maximum Recommended Load: 20 kg

CTLA57 Electric Cylinde I CTLA57 >Page48

Rated Torque: 1.8Nm
Maximum Stroke: 800 mm
Repeat Positioning Accuracy: ±0.02 mm
Maximum Recommended Load: 40 kg

Slide Module I CTLM-45 >Page49

Stroke: 50-800 (every 50mm interval)
Repeat Positioning Accuracy: ±0.02/100mm
IP: IP40

Slide Module I CTLM-60 >Page51

Stroke: 60-510 (every 50mm interval)
Repeat Positioning Accuracy: ±0.02/100mm
IP: IP40

Electric Vacuum Actuator Series

Electric Suction Gripper I CTMSC1F50.00 >Page54

Suction/Release Speed: < 0.3S
Maximum Load: 2kg
Self-Weight: 190g
IP: IP40

Electric Suction Gripper I CTMSC1F50.00A >Page55

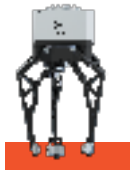
Suction/Release Speed: < 0.3S
Maximum Load: 2kg
Self-Weight: 310g
IP: IP40

Electric Suction Gripper I CTMSC1F50.00B >Page56

Suction/Release Speed: < 0.3S
Maximum Load: 2kg
Self-Weight: 350g
IP: IP40

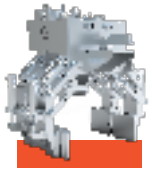
Heavy-Duty Hand Series

Heavy-Duty Modular Three-Finger Hand I CTHM3F460 >Page58



Maximum Gripping Force: 100 N
Maximum Gripping Speed: 200 mm/s
Repeat Positioning Accuracy: ±0.3 mm
Communication Protocol:
Modbus RTU+IO

Heavy-Duty Five-Finger Hand I CTHM5F530 >Page60



Single-finger maximum Gripping force: 150 N
Maximum load: 80 Kg
Maximum travel distance: 530 mm
Working pressure: 0.6-0.7Mpa

Multi-Functional Sponge Suction Gripper I CTABX400 >Page62

Air Supply Pressure: 0.8 Mpa
Opening Stroke: 400 mm
Self-Weight: 70 kg
Communication Protocol: IO

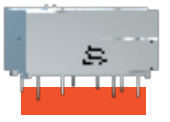
Heavy-Duty Modular Six-Finger Hand I CTHM6F460 >Page59

Maximum Gripping Force: 100 N
Maximum Gripping Speed: 200 mm/s
Repeat Positioning Accuracy: ±0.3 mm
Communication Protocol:
Modbus RTU+IO

Bag Stacking Gripper I CTABG430 >Page61

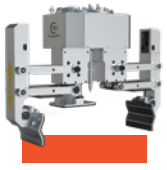
Maximum Load: 60 kg
Working Air Pressure: 50 kg
Compression Stroke: 50 mm
Communication Protocol: IO

Direct Puncture Bag-Breaking Gripper I CTABG100 >Page63



Air Supply Pressure: 60 kg
Maximum Recommended Load: 60 kg
Repeat Positioning Accuracy: ±0.3 mm
Protection Level: IP54

Luggage Gripper I CTBSM2F670.00 >Page64



Maximum Gripping Force: 1200 N
Repeat Positioning Accuracy: ±0.2 mm
Maximum Opening/Closing Speed of Gripper: 300mm/s
Self-Weight: About 50kg

COLLABORATIVE GRIPPER SERIES

Product Features

- **Adaptive Grasping**
  The gripper link mechanism supports enveloping adaptive grasping, which can adapt to the gripping of circular or irregularly shaped objects with stable grasping.
- **Precision Force Control**
  Integrated drive and control design, realizing precision force control through closed-loop control of speed, position and force.
- **Modular Design**
  The modular design enables rapid customization for different needs and realizes quick replacement of worn workpieces.
- **Intelligent Open Ecosystem**
  Compatible with industrial robots, collaborative robots, humanoid robots, mobile robots, machine vision, sensors and other intelligent equipment, and suitable for most brand models of equipment on the market.
- **Compact Body**
  Ultra-thin design and compact structure, saving design space.
- **Supports Secondary Development**
  It supports RS485 and IO control, compatible with ROS system, supports secondary development of ROS 1, which can expand EtherCAT and CAN control, and provides complete SDK and API support.....

Product Advantages


Grasping Feedback

Precision Force Control


Plug and Play


Power-off Self-locking

Application Fields

3C Electronics


Precision Manufacturing


Home Appliances


Medical Devices


Embodied Intelligence


Automotive and Related Fields

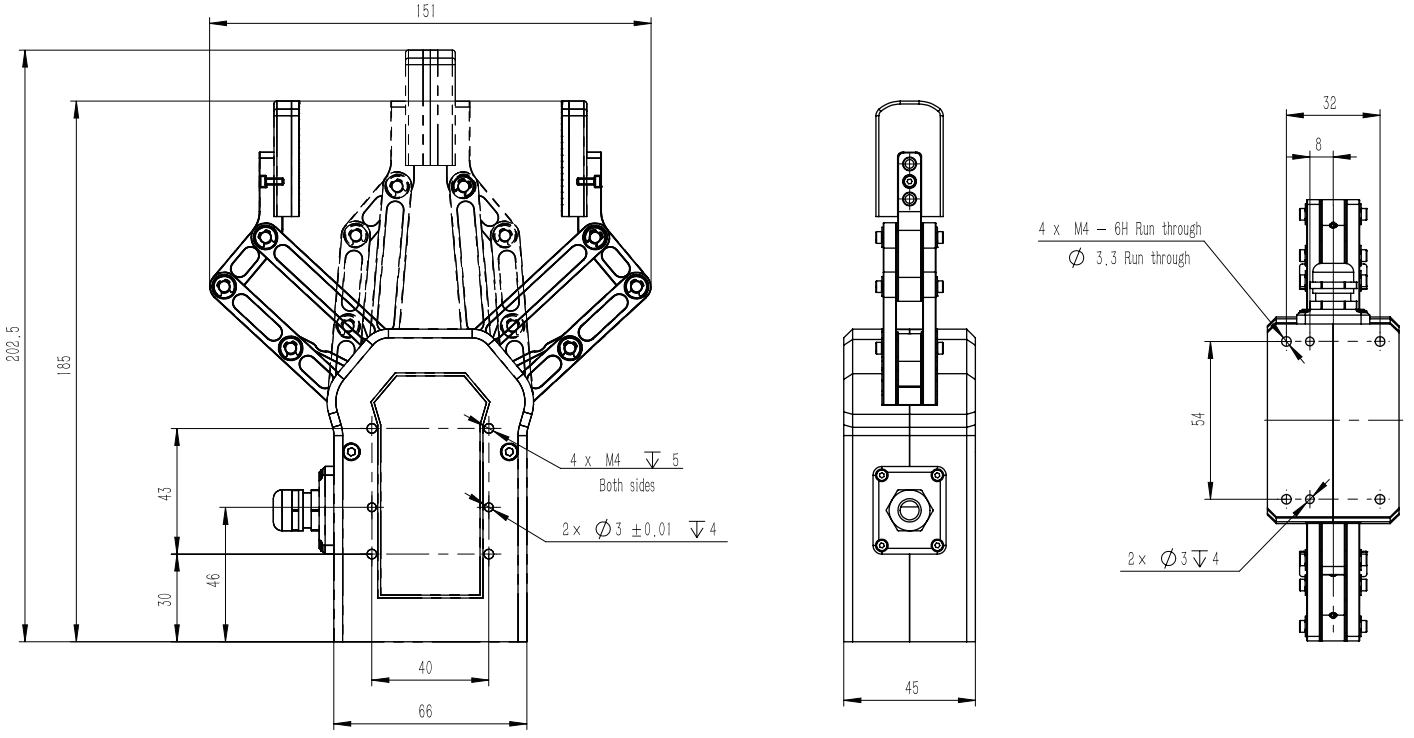
Specification Parameters

90 Collaborative Two-Finger Gripper Model：CTAG2F90

Model	CTAG2F90	Maximum Gripping Force	23N
Drive Mode	Motor Drive	Maximum Stroke	90 mm
Working Voltage	24 V	Maximum Current	1A
Grasping Speed	＜100 mm/s	Self-weight	0.7 kg
Repeat Positioning Accuracy	±0.03 mm		
Feedback Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU (extensible to I/O、CAN、TCP/IP、EtherCAT、Profinet, etc)		

Integrated Drive and Control　　Precision Control　　Ultra-thin Design

Product dimensions diagram



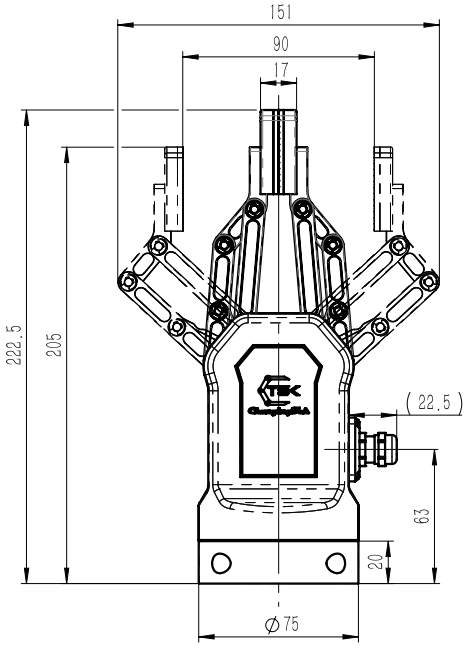
Specification Parameters

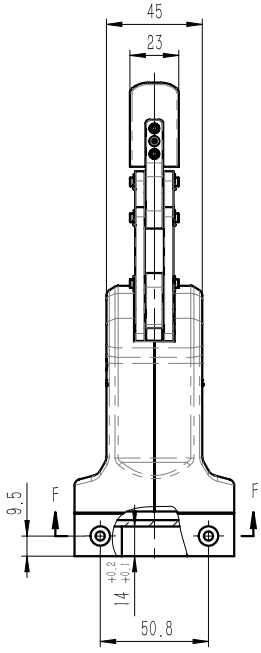
90-D Collaborative Two-Finger Gripper Model：CTAG2F90-D

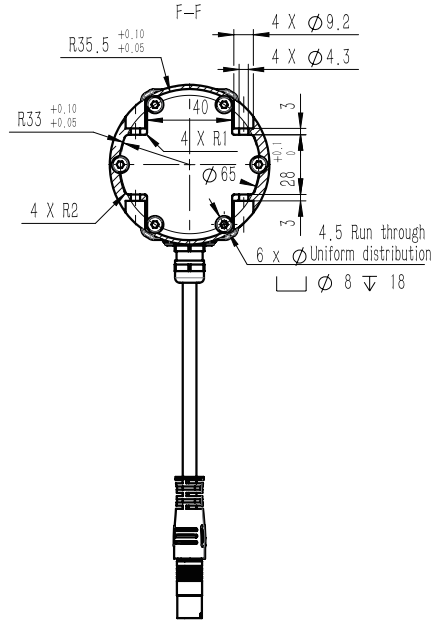
Model	CTAG2F90-D	Drive Mode	Servo Motor Drive
Maximum Stroke	90 mm	Maximum Current	1A
Maximum Gripping Force	25 N	Self-weight	0.8 kg
Repeat Positioning Accuracy	±0.03 mm	Working Voltage	24 V
Feedback Parameters	Position, Speed, Force		
Maximum Grasping Speed	100 mm/s | 250 mm/s**		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU/IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		
Integrated Drive and Control	Precision Control	Ultra-thin Design	

**High-Speed Mode

Product dimensions diagram







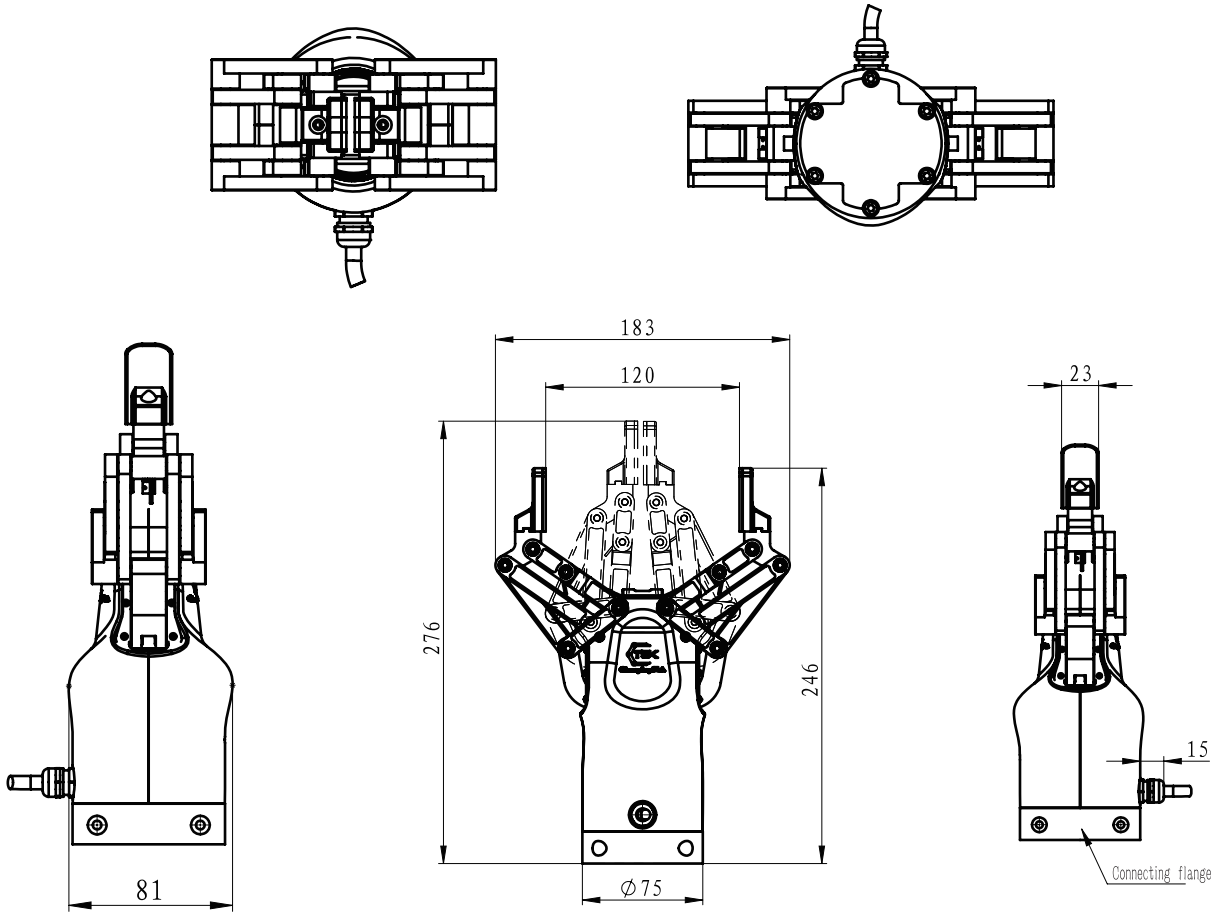
Specification Parameters

120 Collaborative Two-Finger Gripper Model：CTAG2F120

Model	CTAG2F120	Maximum Stroke	120 mm
Drive Mode	Motor Drive	Grasping Speed	＜85mm/s
Maximum Gripping Force	80 N	Maximum Current	0.8 A
Maximum Recommended Load	5 kg	Working Voltage	24 V
Repeat Positioning Accuracy	±0.03 mm	Self-weight	1.5 kg
Programmable Parameters	Position, Speed, Force		
Feedback Parameters	Position, Size, Torque		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU (RS485), I/O (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive and Control　　Precision Control　　Ultra-thin Design

Product dimensions diagram



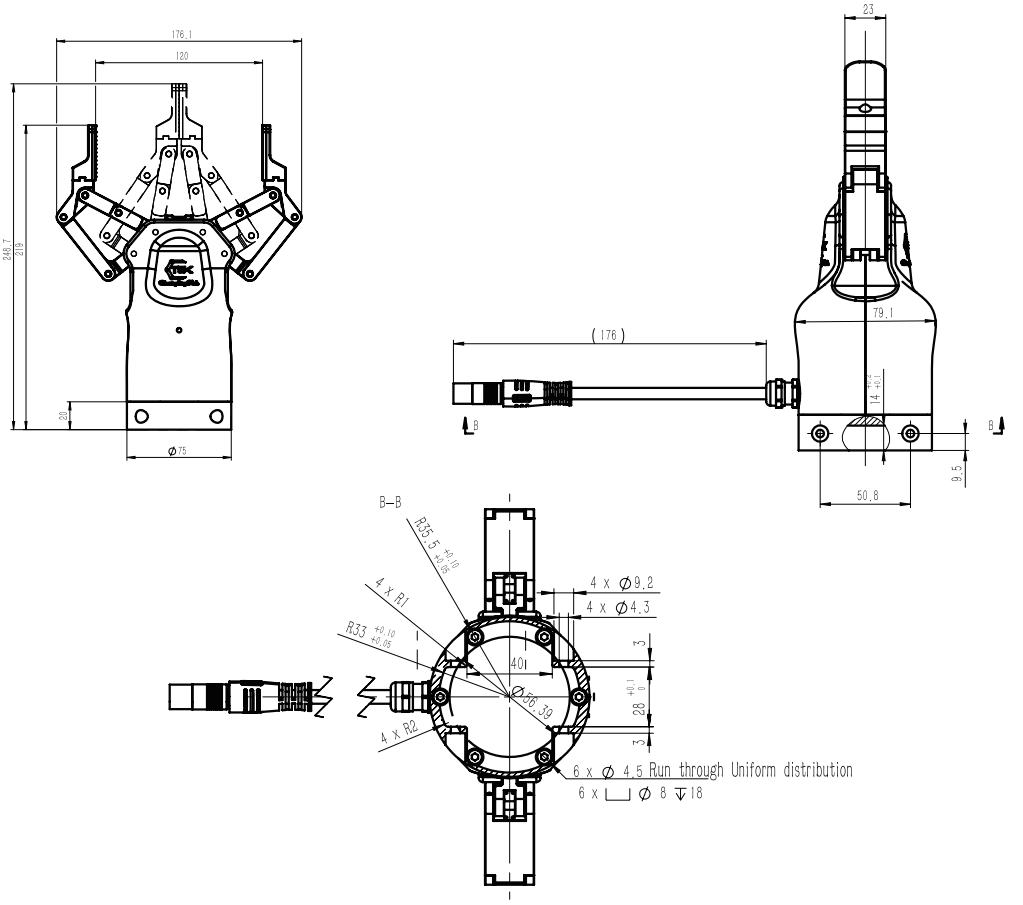
Specification Parameters

120S-D Collaborative Two-Finger Gripper Model：CTAG2F120S-D

Model	CTAG2F120S-D	Maximum Stroke	120 mm
Drive Mode	Motor Drive	Self-weight	1.1kg
Maximum Gripping Force	50N	Maximum Current	1A
Maximum Gripping Speed	200mm/s	Working Voltage	24V
Repeat Positioning Accuracy	±0.03		
Feedback Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive and Control　　Precision Control　　Ultra-thin Design

Product dimensions diagram



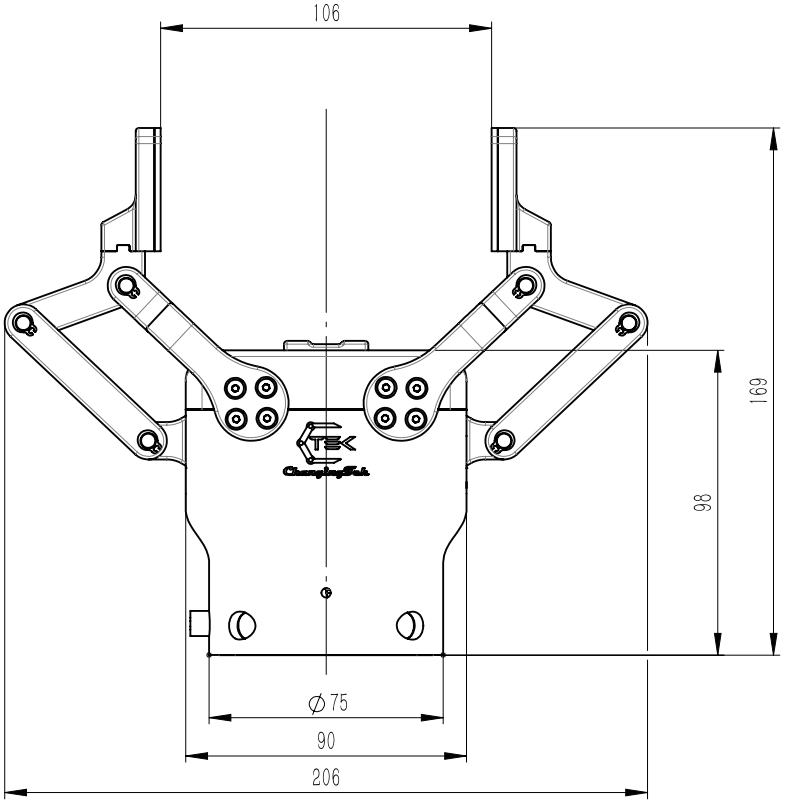
Specification Parameters

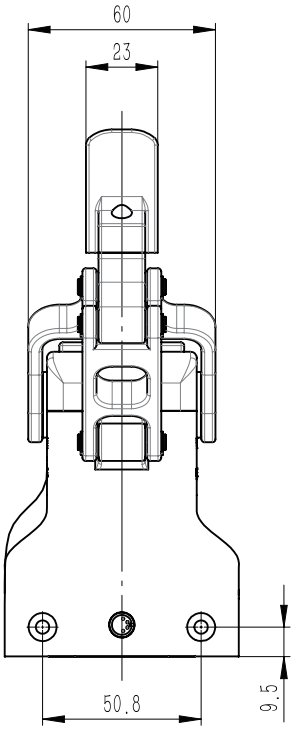
Modular Two-Finger Gripper Model：CTM2F110E

Model	CTM2F110E	Maximum Stroke	106 mm
Drive Mode	Servo Drive	Maximum Recommended Load	3 kg
Maximum Gripping Force	50 N	Self Weight	0.75 kg
Maximum Gripping Speed	150 mm/s	Maximum Current	3 A
Repeat Positioning Accuracy	±0.03 mm	Working Voltage	24 V
Control Accuracy (Position/Force)	0.1 / 0.08 mm/N		
Programmable Parameters	Position, Speed, Force	Feedback Parameters	Position, Size, Torque
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU (RS485), I/O (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive and Control　　Precision Control　　Ultra-thin Design

Product dimensions diagram





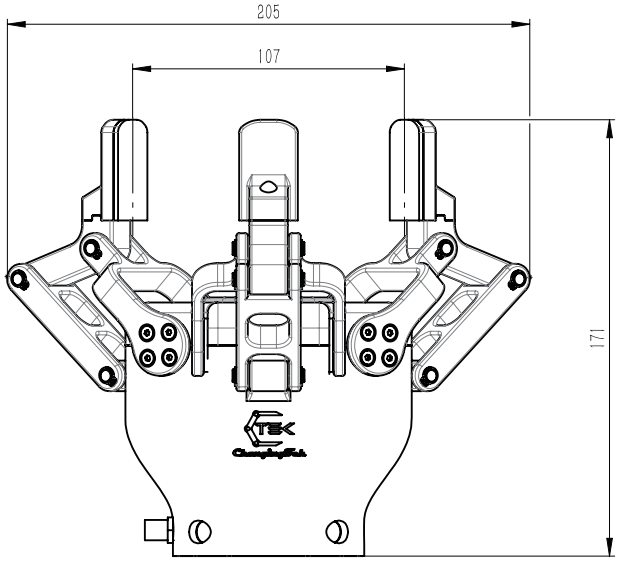
Specification Parameters

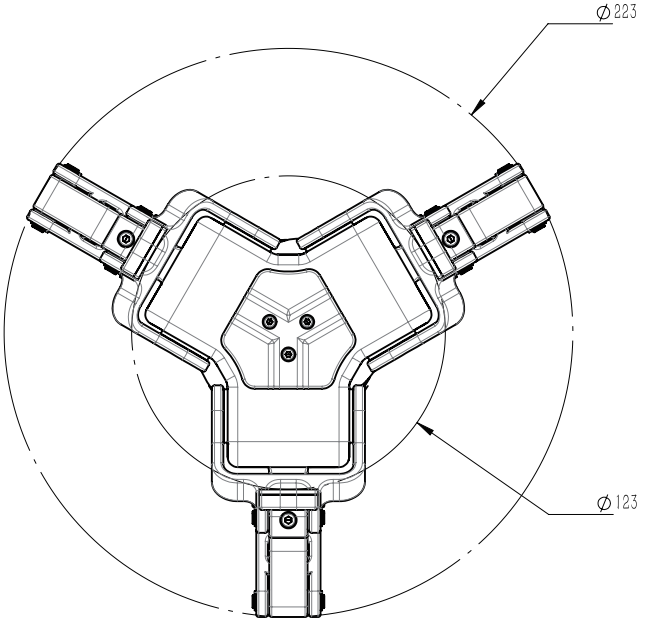
Modular Three-Finger Gripper Model：CTM3F123

Product Model	CTM3F123	Maximum Stroke	123 mm
Drive Mode	Servo Drive	Maximum Recommended Load	4 kg
Maximum Gripping Force	50 N	Self Weight	1.2 kg
Maximum Gripping Speed	150 mm/s	Maximum Current	3 A
Repeat Positioning Accuracy	±0.03 mm	Working Voltage	24 V
Control Accuracy (Position/Force)	0.1 / 0.08 mm/N		
Feedback Parameters	Position, Size, Torque	Programmable Parameters	Position, Speed, Force
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU (RS485), I/O (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive and Control　　Precision Control　　Ultra-thin Design

Product dimensions diagram





Specification Parameters

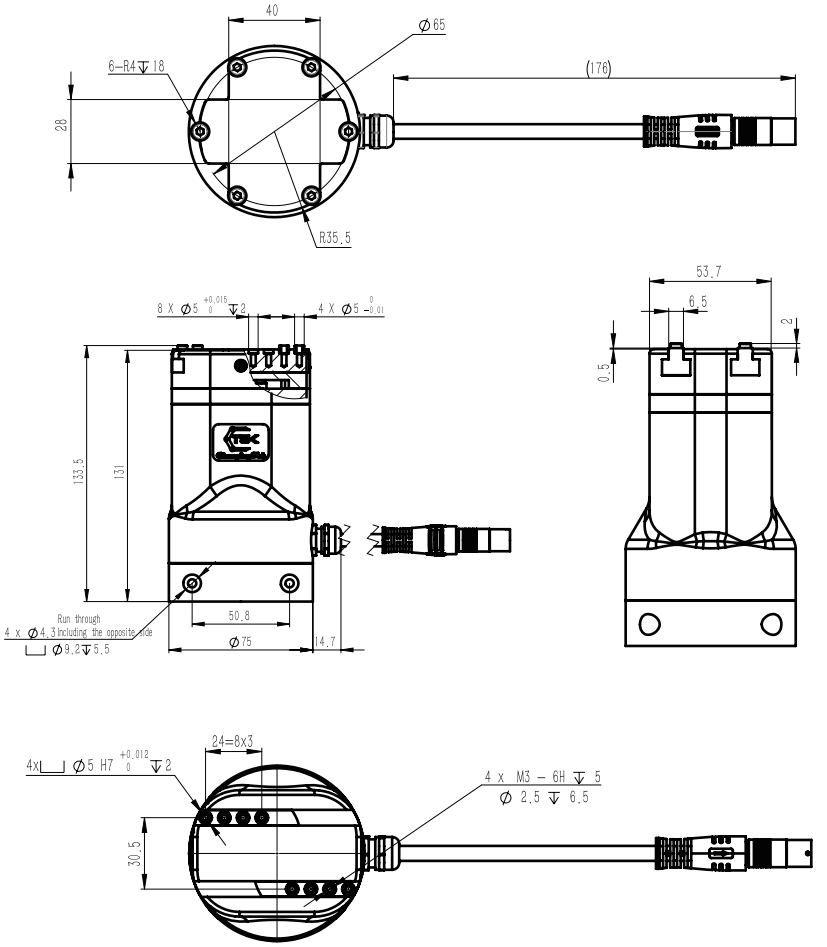
50F-D Collaborative Two-Finger Gripper
Model：CTPM2F50F-D

Model	CTPM2F50F-D	Maximum Stroke	50 mm
Drive Mode	Servo Drive	Maximum Load	50 mm
Maximum Gripping Force	60N	Self Weight	1.3 kg
Maximum Gripping Speed	200mm/s	Maximum Current	1 A
Repeat Positioning Accuracy	±0.02mm	Working Voltage	24 V
Feedback Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive and Control　　Precision Control　　Ultra-thin Design

Note:This product is shipped without fingers

Product dimensions diagram



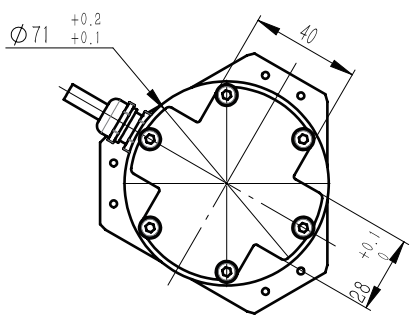
Specification Parameters

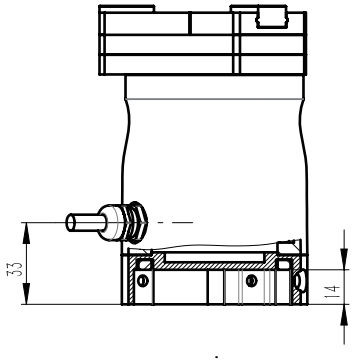
20 Parallel Three-Finger Gripper Model：CTPM3F20

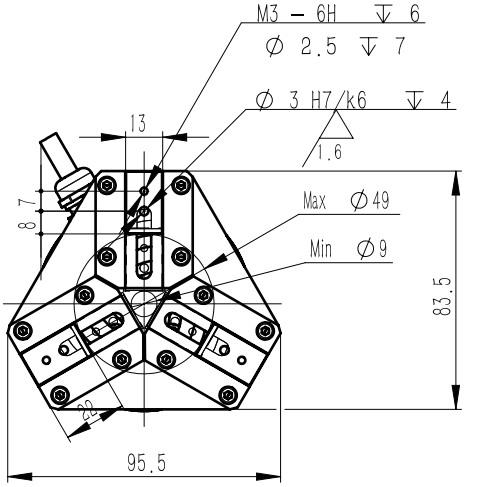
Model	CTPM3F20	Maximum Stroke	20 mm
Drive Mode	Servo Drive	Maximum Current	2 A
Maximum Gripping Force	40 N	Self Weight	1.2 kg
Maximum Gripping Speed	100 mm/s	Repeat Positioning Accuracy	±0.02 mm
Working Voltage	24 V	Control Accuracy (Position/Force)	0.1 / 0.1 mm/N
Programmable Parameters	Position, Speed, Force	Feedback Parameters	Position, Size, Torque
Allowable Load Torque(N・m)	MR:4.6,MP:1.9,MY:2.7		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU		
Integrated Drive and Control	Precision Control	Ultra-thin Design	

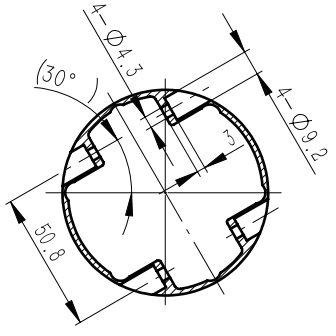
Note:This product is shipped without fingers

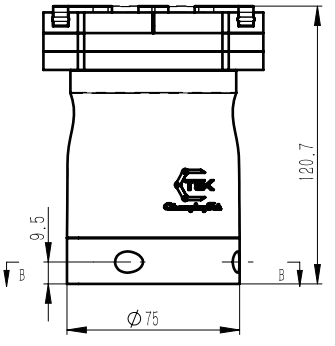
Product dimensions diagram











Specification Parameters

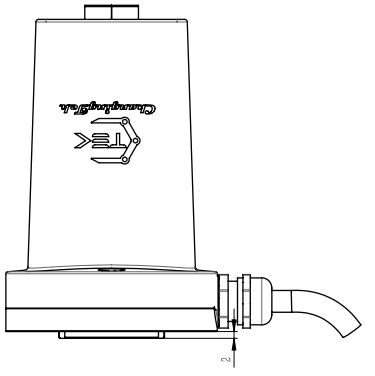
20 Collaborative Two-Finger Gripper Model: CTIM2F20

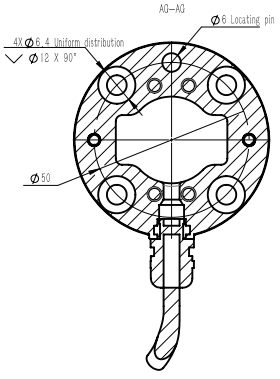
Model	CTIM2F20	Maximum Stroke	20 mm
Drive Mode	Motor Drive	Maximum Current	2 A
Maximum Gripping Force	10 N	Repeat Positioning Accuracy	±0.02 mm
Maximum Gripping Speed	50 mm/s	Self Weight	0.4 kg
Working Voltage	24 V	Allowable Load Torque	MR:4.6,MP:1.9,MY:2.7
Programmable Parameters	Position, Speed, Force		
Feedback Parameters	Position, Size, Torque		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU		

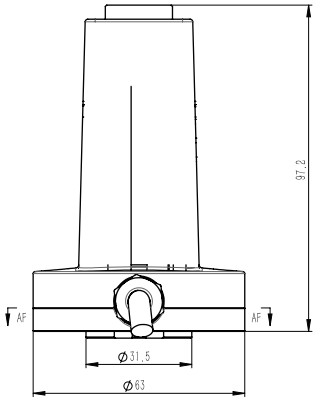
Integrated Drive and Control　Precision Control　Ultra-thin Design

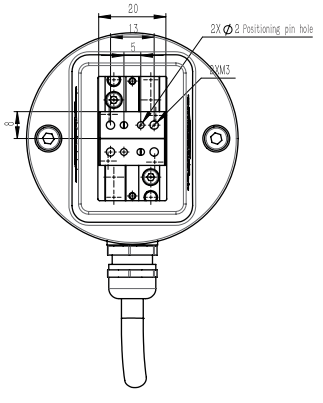
Note:This product is shipped without fingers

Product dimensions diagram









PARALLEL GRIPPER SERIES

Product Features

- **Compact Size**
  Ultra-thin design with a compact structure, saving design space
- **Modular Design**
  Rapid customization for diverse requirements, and quick replacement of worn workpieces
- **Intelligent Open Ecosystem**
  Compatible with intelligent equipment such as industrial robots, collaborative robots, humanoid robots, mobile robots, machine vision and sensors, adaptable to most brands and models on the market
- **Plug and Play**
  Visual operation interface with ultra-simple wiring for plug-and-play functionality
- **Precision Force Control**
  Integrated drive and control design, achieving high-precision force control through closed-loop control of speed, position and force
- **Support for Secondary Development**
  Support RS485 and IO control, compatible with ROS system and secondary development based on ROS1; Extensible to EtherCAT and CAN control, with complete SDK and API support provided

Product Advantages


Gripping Feedback

Precision Force Control


Multi-sided Mounting


Power-off Self-locking

Application Fields

3C Electronics


Precision Manufacturing


Household Appliances


Medical Devices


Embodied Intelligence


Automotive and Related Industries

Specification Parameters

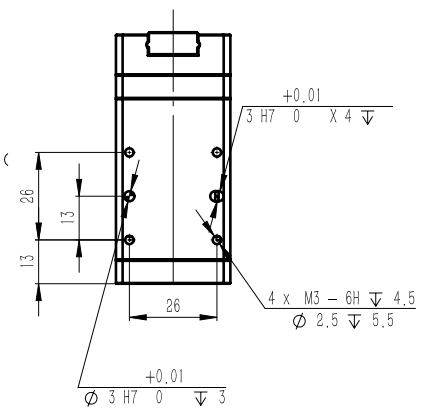
8S Parallel Two-finger Gripper Model：CTPM2F8S

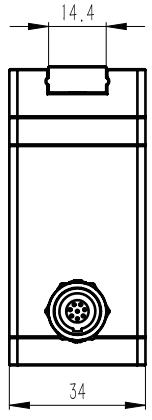
Model	CTPM2F8S	Maximum Stroke	8 mm
Drive Method	Motor-driven	Maximum Recommended Load	0.1 kg
Maximum Gripping Force	3N	Maximum Current	2 A
Maximum Gripping Speed	25 mm/s	Repetitive Positioning Accuracy	±0.02 mm
Working Voltage	24 V	Self-weight	0.3 kg
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

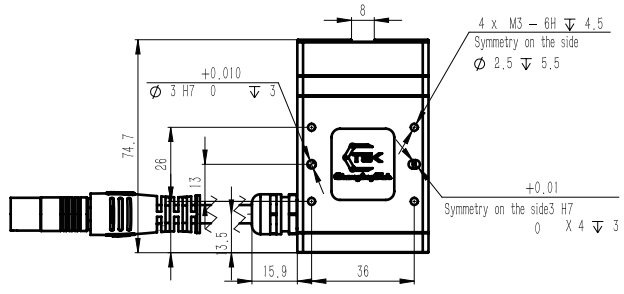
Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

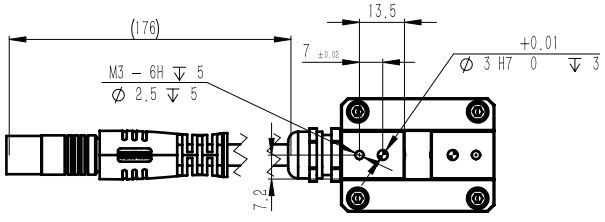
Note: Gripper fingers are not included

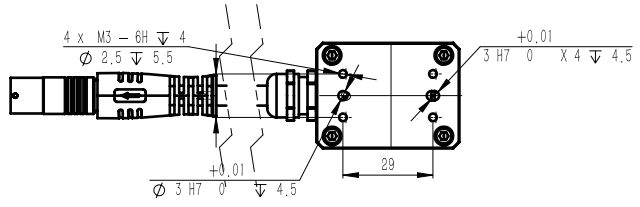
Product dimensions diagram











Specification Parameters

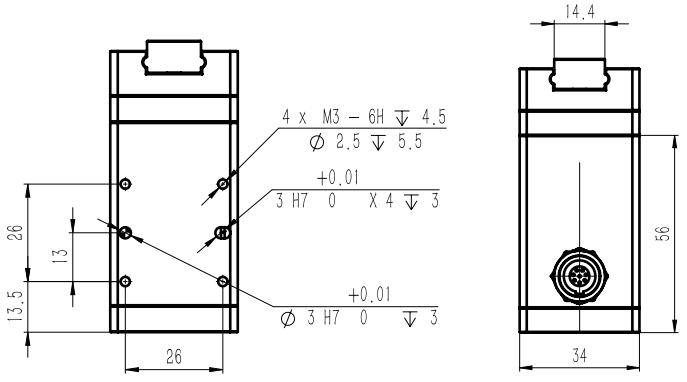
14S Parallel Two-finger Gripper Model：CTPM2F14S

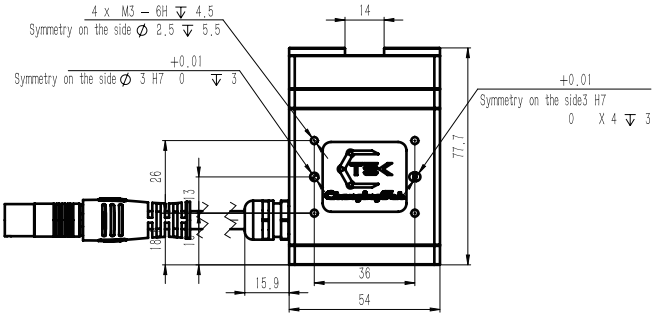
Model	CTPM2F14S	Maximum Stroke	14 mm
Drive Method	Motor-driven	Maximum Current	2 A
Maximum Gripping Force	15 N	Repetitive Positioning Accuracy	±0.02 mm
Maximum Gripping Speed	40 mm/s	Self-weight	0.4 kg
Working Voltage	24 V		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

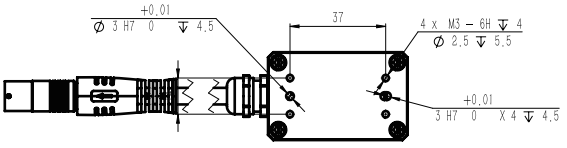
Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

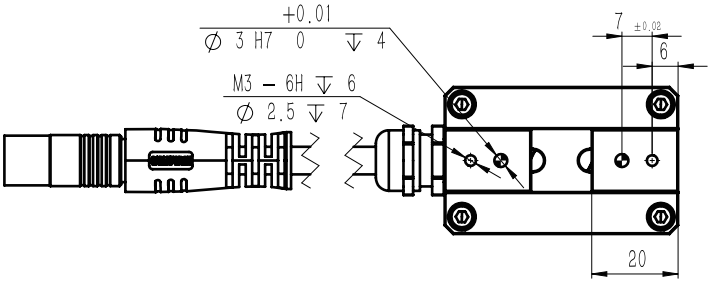
Note: Gripper fingers are not included

Product dimensions diagram









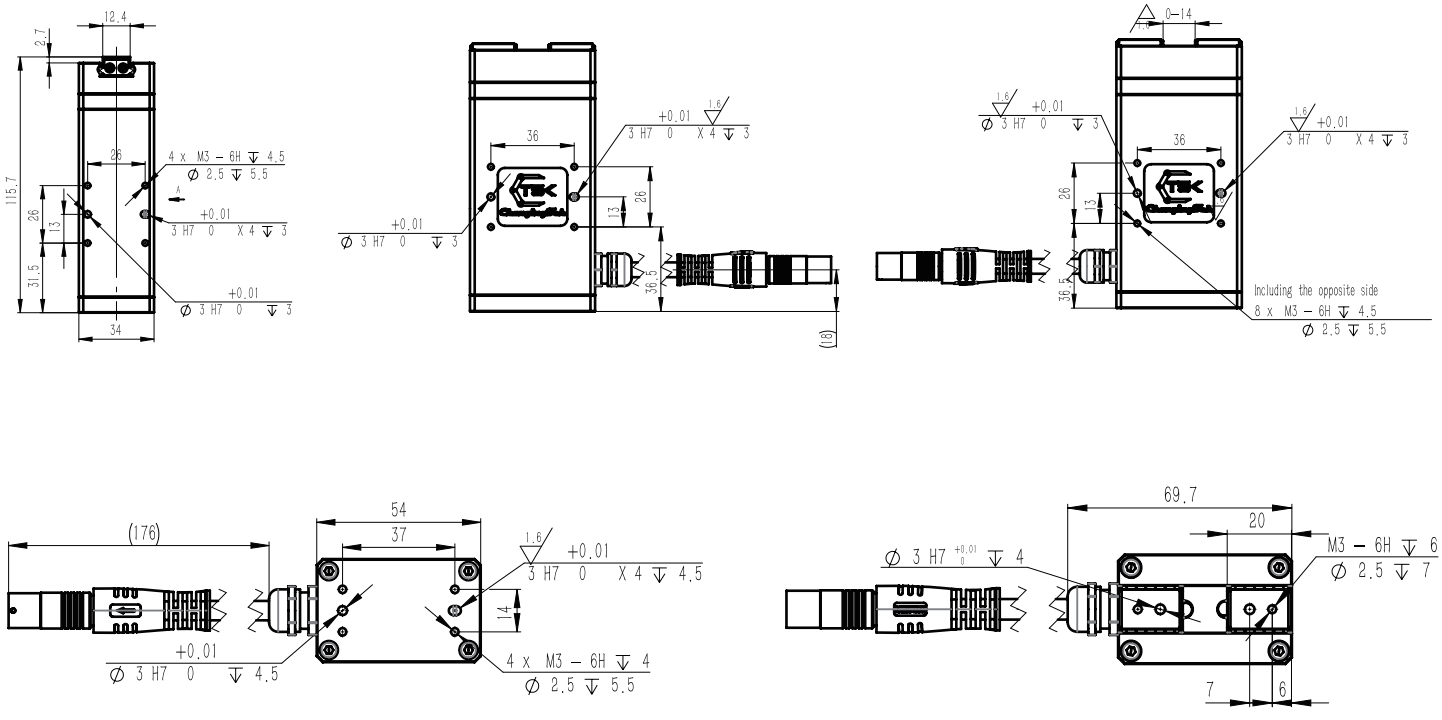
Specification Parameters

14 Parallel Two-finger Gripper Model：CTPM2F14

Model	CTPM2F14	Maximum Stroke	14 mm
Drive Method	Motor-driven	Maximum Current	2 A
Maximum Gripping Force	24 N	Repetitive Positioning Accuracy	±0.02 mm
Maximum Gripping Speed	40 mm/s	Self-weight	0.6kg
Working Voltage	24 V		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		
Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life			

Note: Gripper fingers are not included

Product dimensions diagram



Specification Parameters

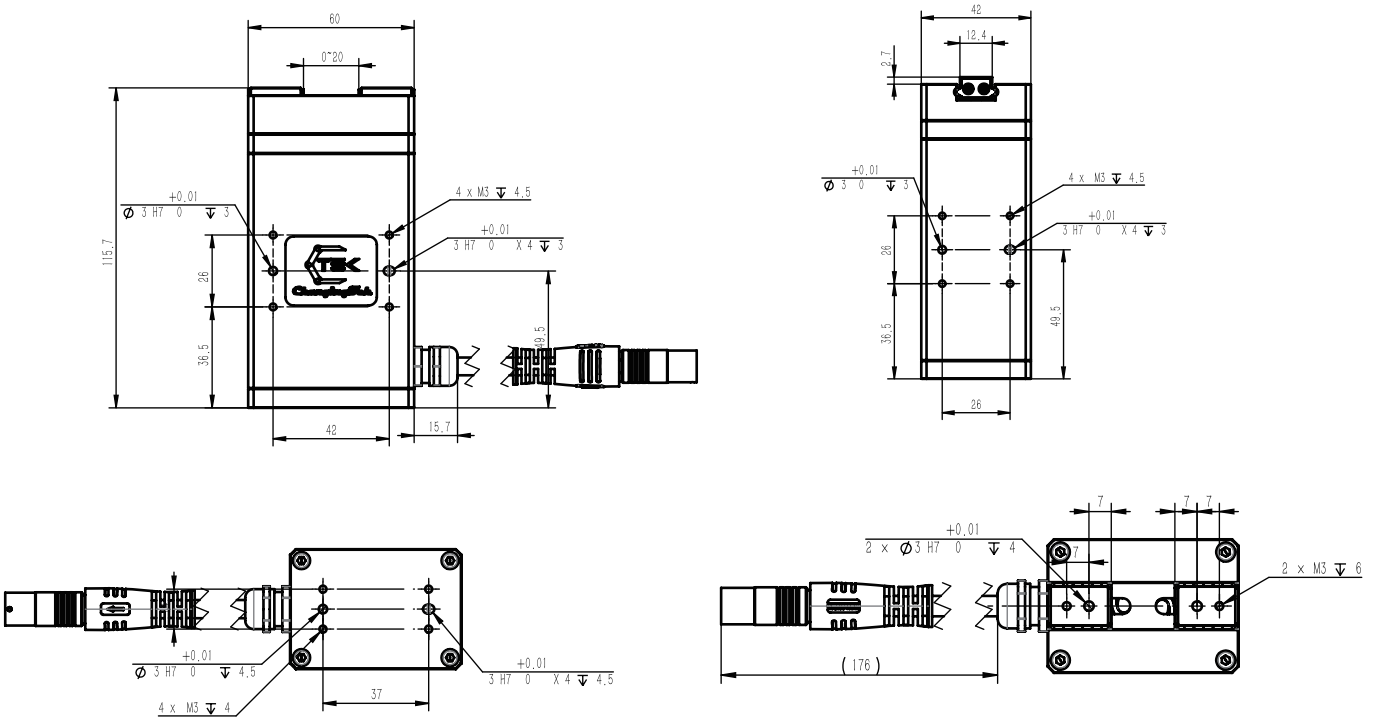
20 Parallel Two-Finger Gripper Model：CTPM2F20

Model	CTPM2F20	Maximum Stroke	20 mm
Drive Method	Motor Drive	Maximum Current	2 A
Maximum Gripping Force	24 N	Repeat Positioning Accuracy	±0.02 mm
Maximum Gripping Speed	50 mm/s	Self-weight	0.8 kg
Operating Voltage	24 V		
Feedback Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, Below 85%RH (No Condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

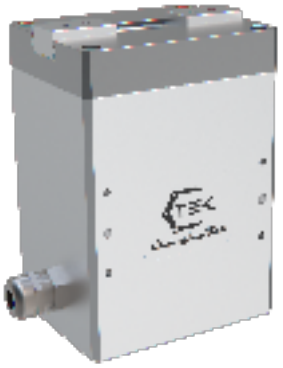
Note: Gripper fingers are not included

Product dimensions diagram



Specification Parameters

26 Parallel Two-Finger Gripper Model：CTPM2F26

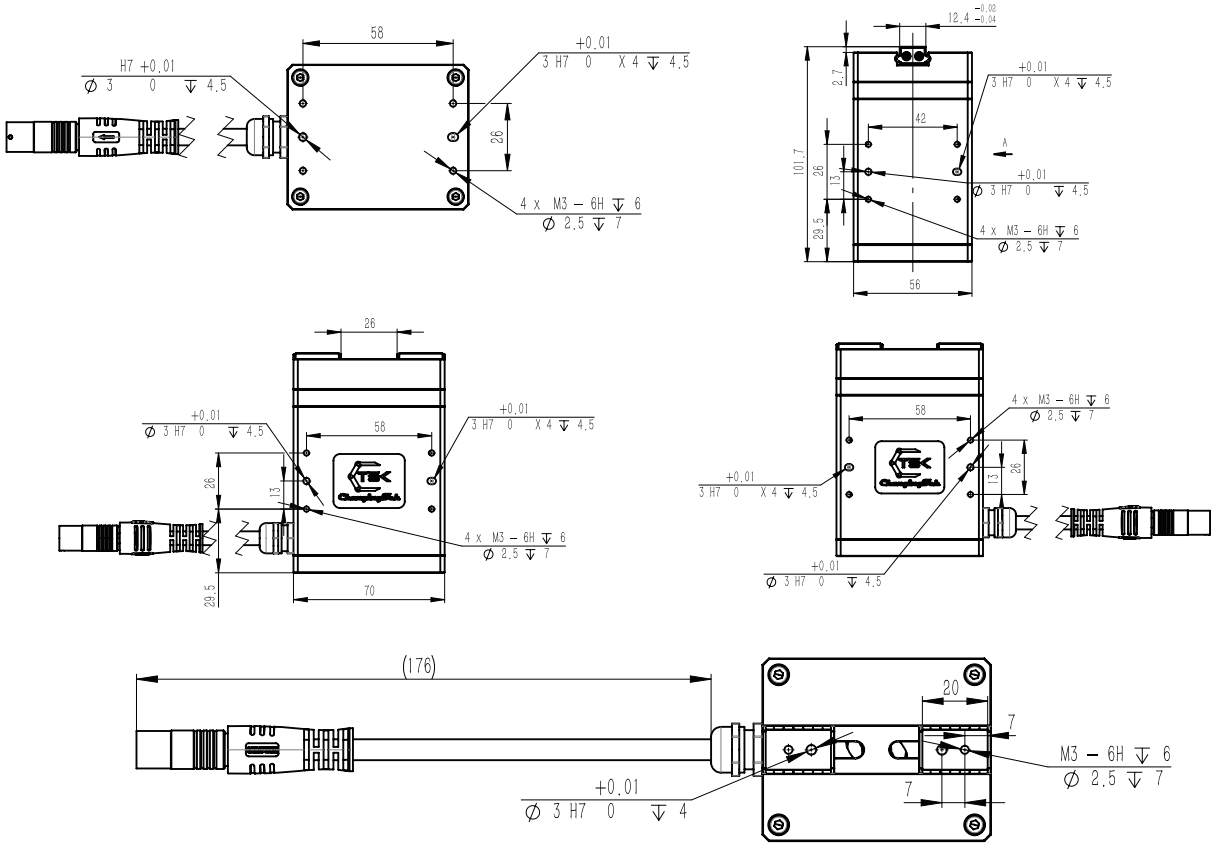


Model	CTPM2F26	Maximum Stroke	26 mm
Drive Method	Motor-driven	Maximum Current	2 A
Maximum Gripping Force	35 N	Working Voltage	24 V
Maximum Gripping Speed	85 mm/s	Self-weight	0.95 kg
Repetitive Positioning Accuracy	±0.02 mm		
Programmable parameters	Position, Speed, Force		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation))		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

Note: Gripper fingers are not included

Product dimensions diagram



Specification Parameters

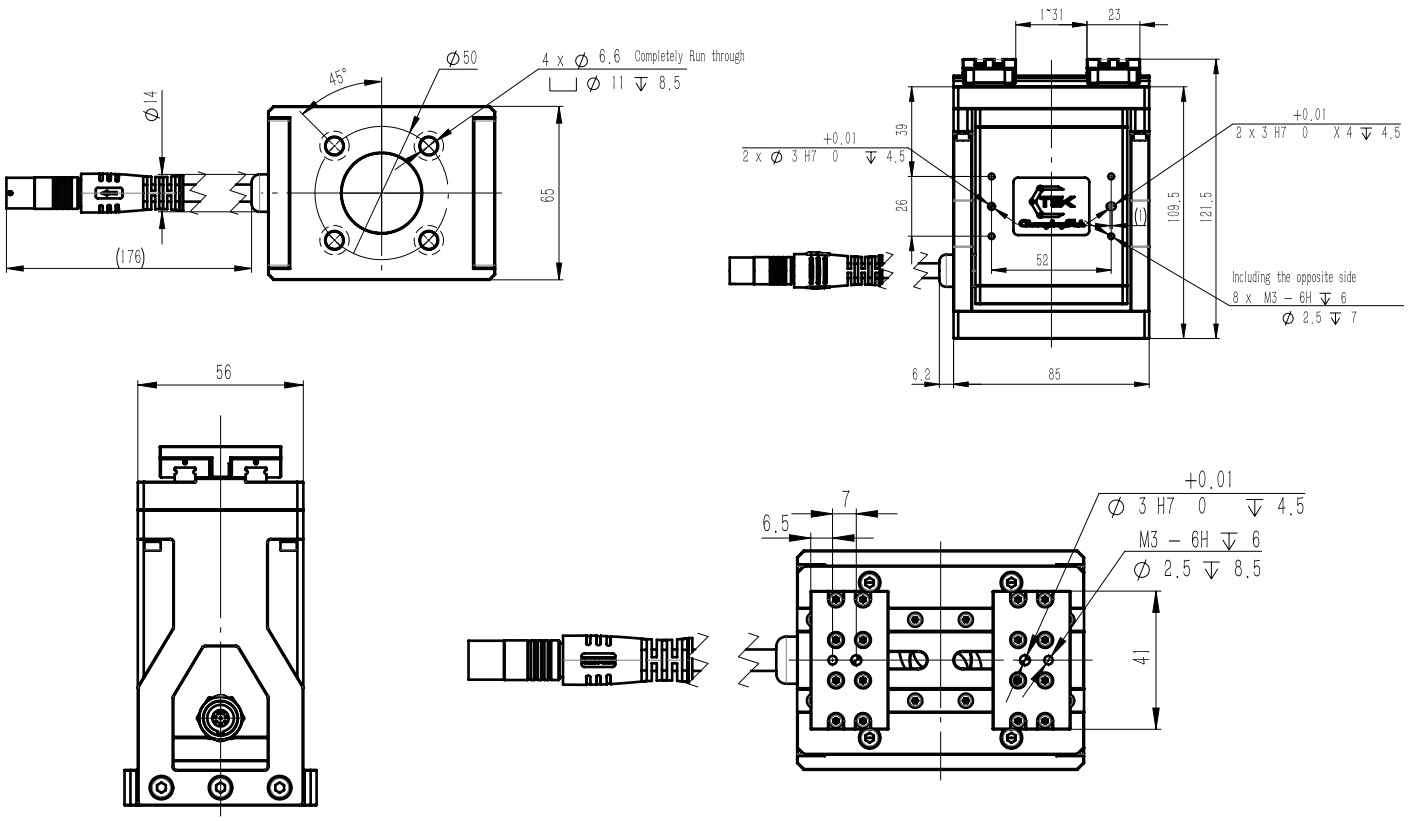
30 Parallel Two-Finger Gripper Model：CTPM2F30

Model	CTPM2F30	Maximum Stroke	30 mm
Drive Method	Motor-driven	Maximum Gripping Speed	85 mm/s
Maximum Gripping Force	35 N	Working Voltage	24 V
Maximum Current	2 A	Self-weight	1.2 kg
Repetitive Positioning Accuracy	±0.02 mm		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

Note: Gripper fingers are not included

Product dimensions diagram



Specification Parameters

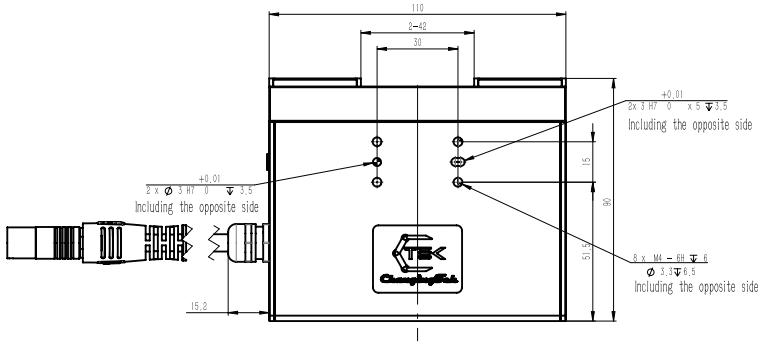
40S Parallel Two-Finger Gripper Model：CTPM2F40S

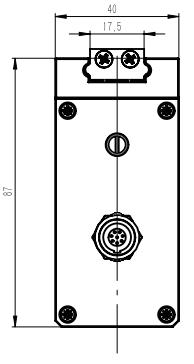
Model	CTPM2F40S	Maximum Stroke	40 mm
Drive Method	Motor-driven	Maximum Current	1.2 A
Maximum Gripping Force	60-300 N	Working Voltage	24 V
Maximum Gripping Speed	20 mm/s	Self-weight	1.1 kg
Repetitive Positioning Accuracy	±0.02 mm		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

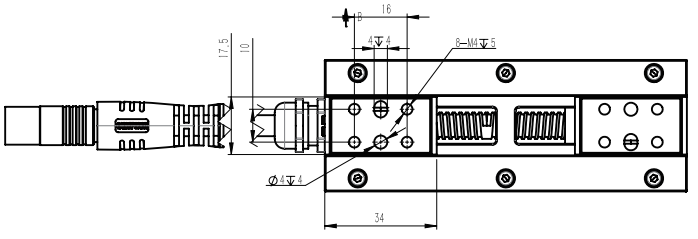
Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

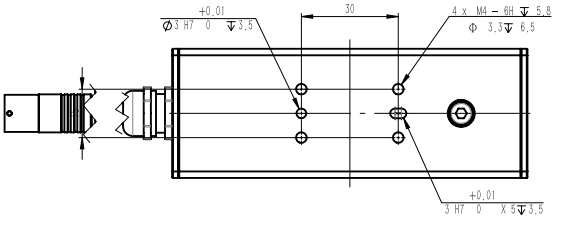
Note: Gripper fingers are not included

Product dimensions diagram



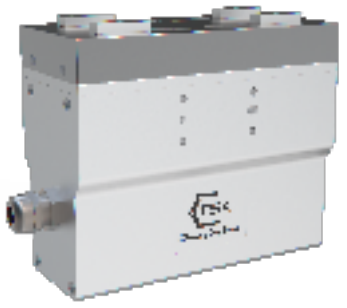






Specification Parameters

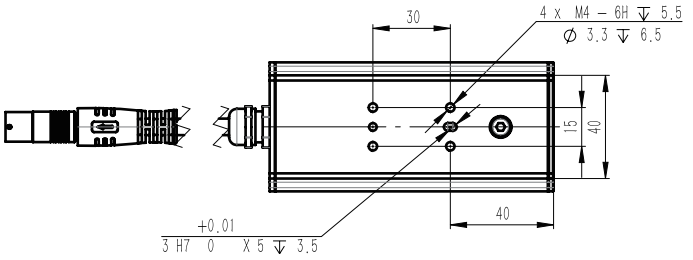
40 Parallel Two-Finger Gripper Model：CTPM2F40

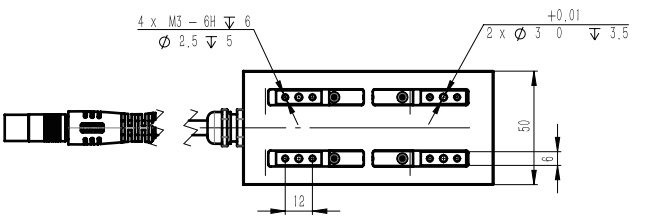


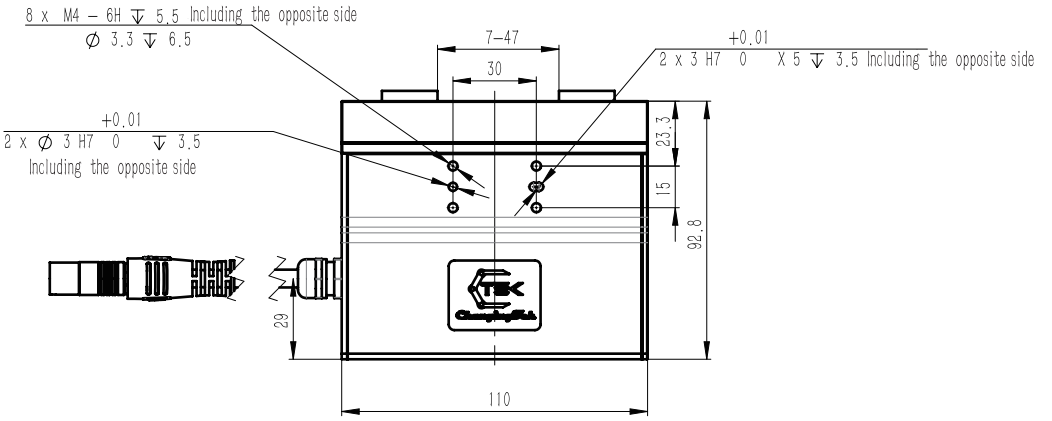
Model	CTPM2F40	Maximum Stroke	40 mm
Drive Method	Motor-driven	Maximum Gripping Speed	20 mm/s
Maximum Gripping Force	100 N	Maximum Current	2 A
Repetitive Positioning Accuracy	±0.02 mm	Self-weight	1.2 kg
Working Voltage	24 V		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		
Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life			

Note: Gripper fingers are not included

Product dimensions diagram







Specification Parameters

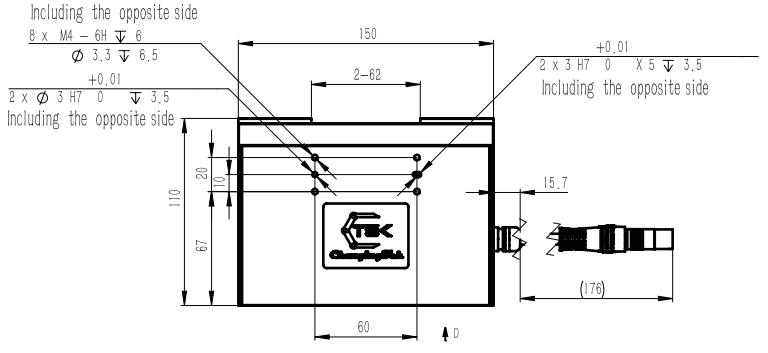
60S Parallel Two-Finger Gripper Model：CTPM2F60S

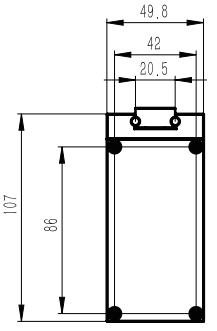
Model	CTPM2F60S	Maximum Stroke	60 mm
Drive Method	Motor-driven	Maximum Gripping Speed	30 mm/s
Maximum Gripping Force	350-700N	Maximum Current	2 A
Repetitive Positioning Accuracy	±0.02 mm	Self-weight	2.1 kg
Working Voltage	24 V		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

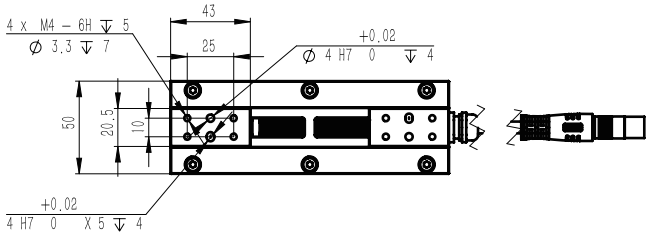
Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

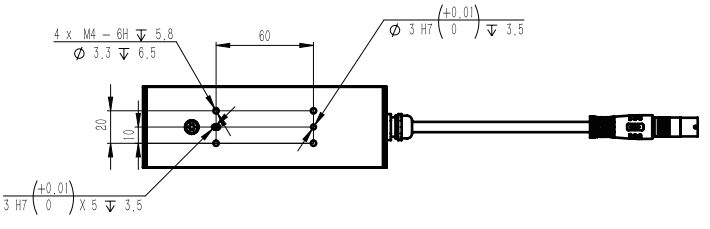
Note: Gripper fingers are not included

Product dimensions diagram



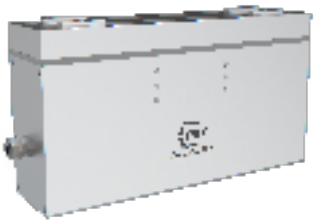






Specification Parameters

120 Parallel Two-Finger Gripper Model：CTPM2F120

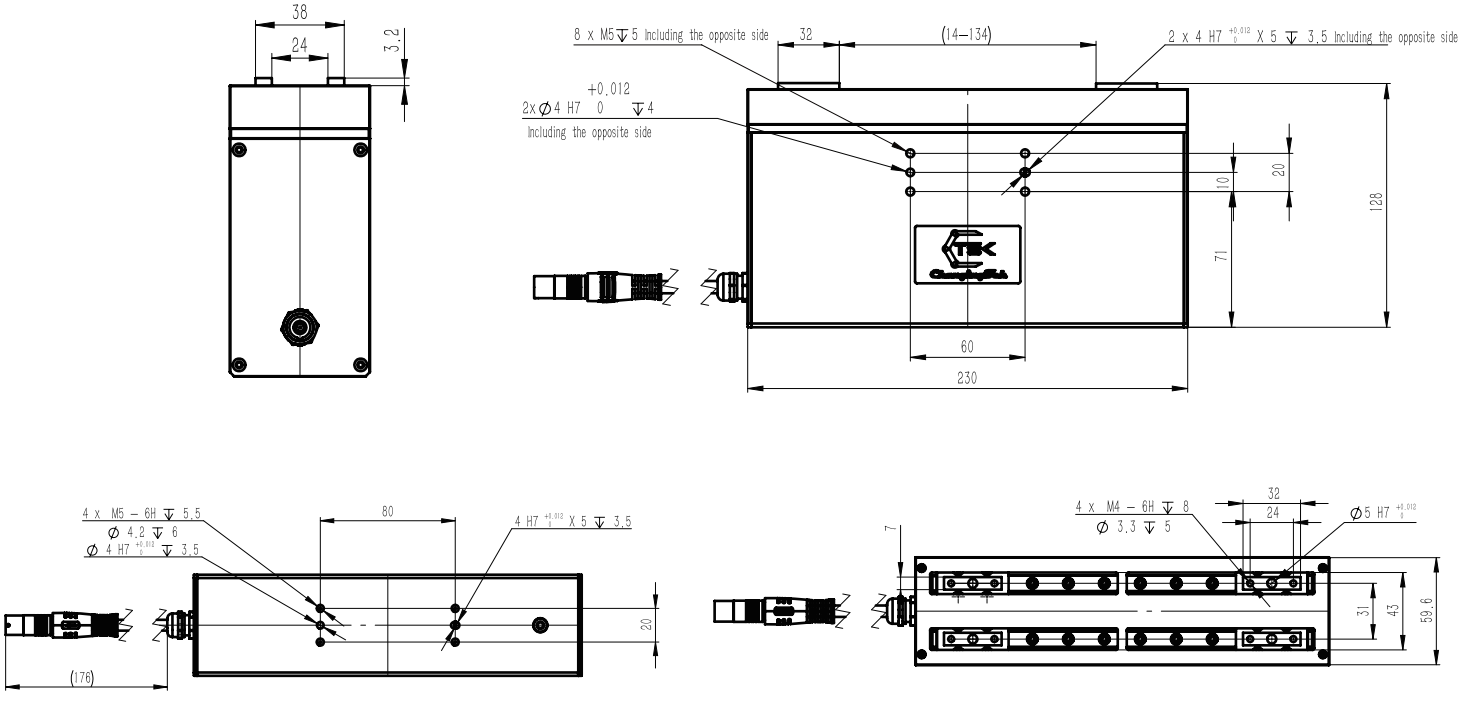


Model	CTPM2F120	Maximum Stroke	120 mm
Drive Method	Motor-driven	Maximum Gripping Speed	100 mm/s
Maximum Gripping Force	250 N	Maximum Current	2 A
Repetitive Positioning Accuracy	±0.02 mm	Self-weight	2.8 kg
Working Voltage	24 V		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

Note: Gripper fingers are not included

Product dimensions diagram



Specification Parameters

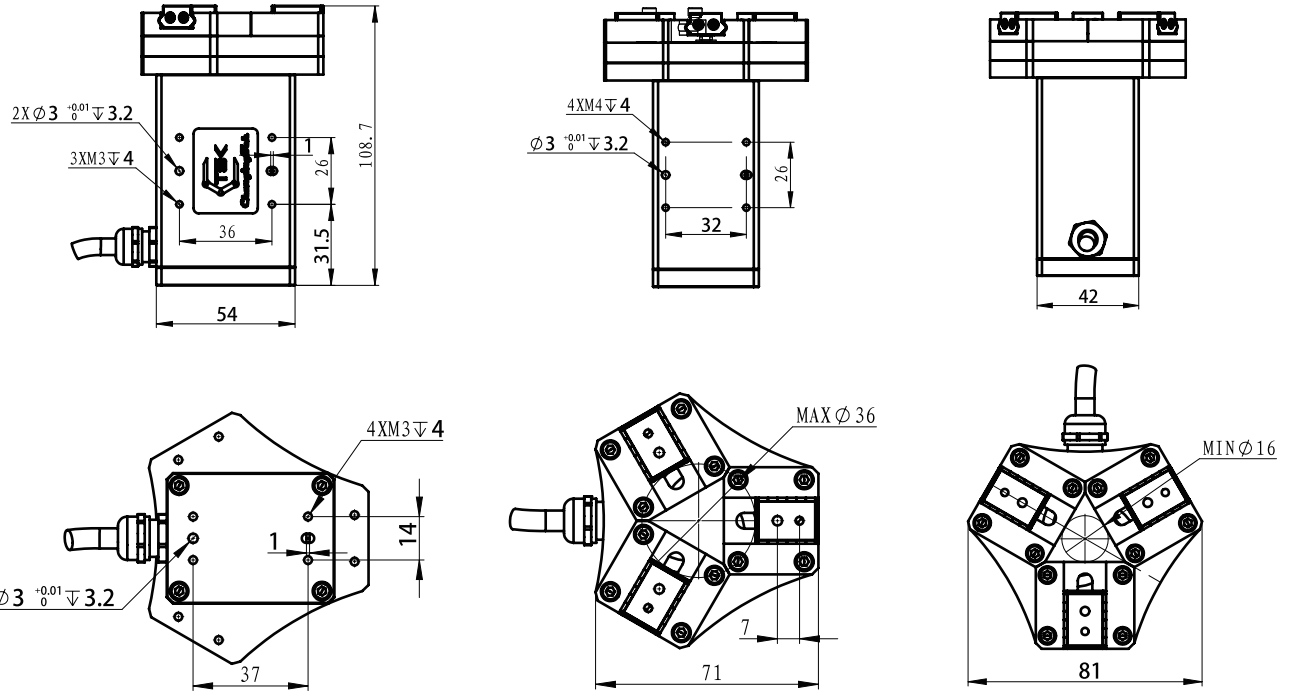
10 Parallel Three-Finger Gripper Model：CTPM3F10E

Model	CTPM3F10E	Maximum Stroke	10 mm
Drive Method	Motor-driven	Maximum Current	2 A
Maximum Gripping Force	15 N	Self-weight	0.9 kg
Maximum Gripping Speed	30 mm/s	Repetitive Positioning Accuracy	±0.02 mm
Working Voltage	24 V		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (extensible to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated Drive & Control, Precision Control, Lightweight Design, Long Service Life

Note: Gripper fingers are not included

Product dimensions diagram



DEXTEROUS HAND SERIES

Product Features

- **包络自适应抓取**
  夹爪连杆机构支持包络自适应抓取，能够适应圆形、球形或异形物体的夹持，提高抓取稳定性
- **开源平台**
  支持市面上所有主流协作机器人和人型机器人，系统内提供知行插件，易于控制和编程
- **智能感知**
  拥有故障诊断、温度感知、力感知、掉落检测等功能，实现实时数据上传，全流程监控
- **即插即用**
  可视化操作界面，极简布线，实现即插即用
- **精确力控**
  驱控一体设计，速度、位置、力闭环控制实现精密力控
- **支持二次开发**
  支持RS485、IO控制，适配ROS系统，支持ros1的二次开发可扩展EtherCAT、CAN控制，提供完整SDK和API支持.....

Product Advantages

抓取反馈　多面安装　精准力控

Application Fields

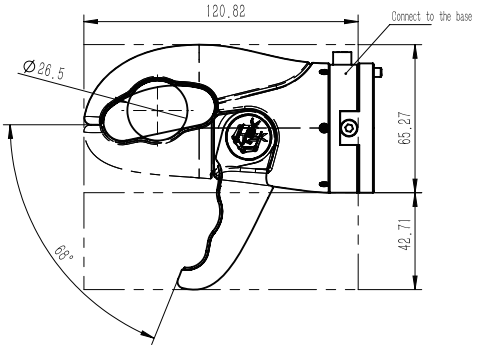
3C电子　医疗器械　精密制造　具身智能　家用电器　汽车及相关

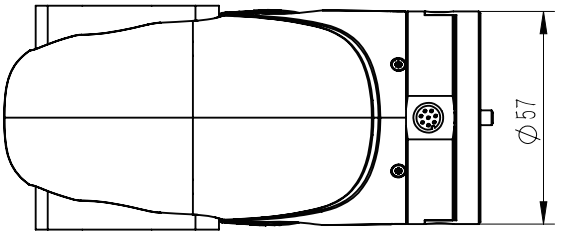
Specification Parameters

Fuyi Bionic Two-Finger Hand Model：CTAG1F65

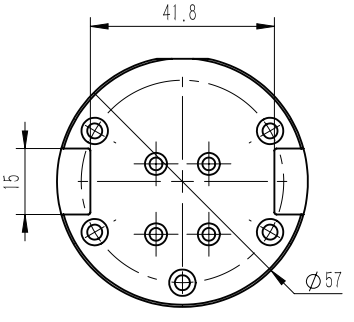
Model	CTAG1F65	Maximum travel distance	68°
Drive Method	Motor-driven	Position control accuracy	0.1mm
Maximum Gripping Force	17N	Maximum Current	1.5A
Maximum Gripping Speed	150mm/s	Repetitive Positioning Accuracy	±0.03 mm
Working Voltage	24V		
Self-weight	0.38kg		
Feedbackable Parameters	Position, Speed, Torque		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU		
Strong grip strength	Precise control	Long lifespan	Low maintenance

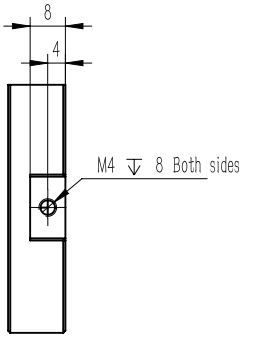
Product dimensions diagram





Mounting Dimensions of the Connection Base





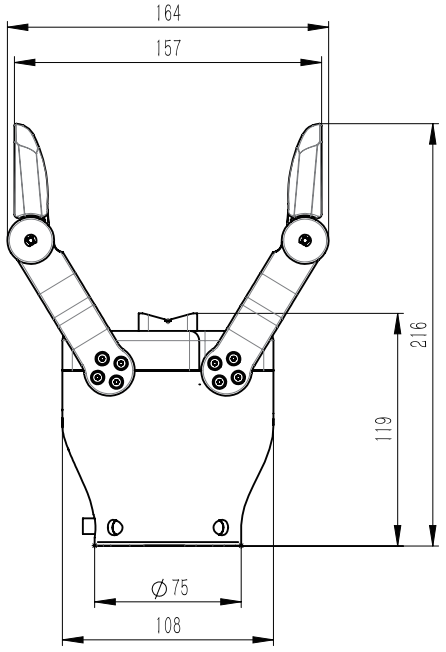
Specification Parameters

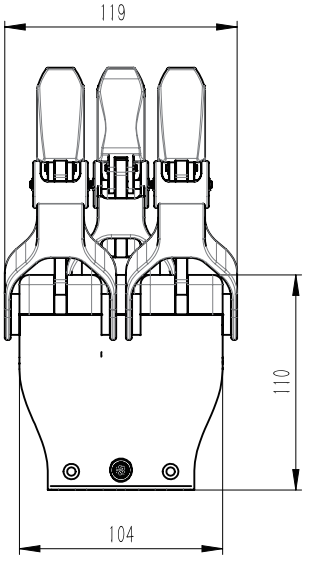
Gripping Three-Finger Hand Model：CTMG3F60

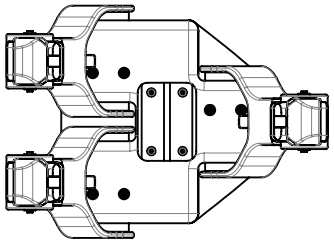
Model	CTMG3F60	Maximum Opening Angle	100°
Drive Method	Motor-driven	Maximum Gripping Force	50 N
Maximum recommended load	5 kg(Envelope)	Self-weight	1.1 kg
Maximum Gripping Speed	100 mm/s	Maximum Current	4.5 A
Repetitive Positioning Accuracy	±0.03 mm	Working Voltage	24 V
Programmable Parameters	Position, Speed, Force		
Feedbackable Parameters	Position, Size, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU+IO (Expandable to CAN, TCP/IP, EtherCAT, Profinet, etc.)		

Integrated drive and control　　Modular design　　Independent control

Product dimensions diagram







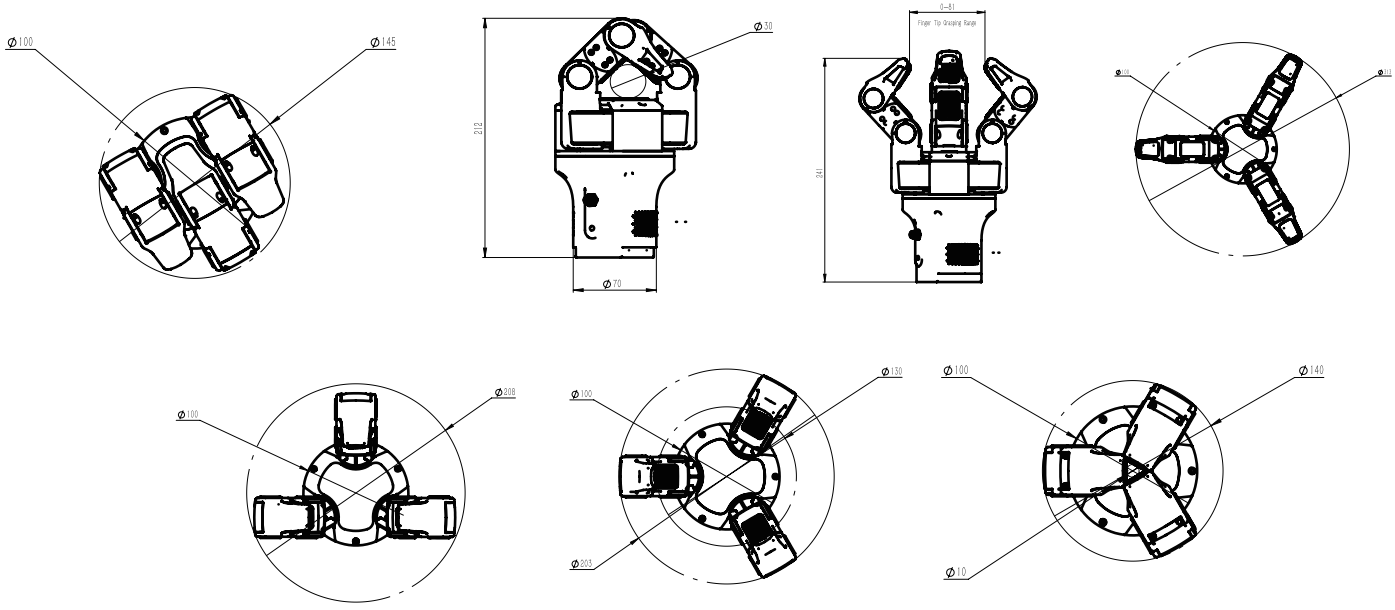
Specification Parameters

Jiuzhang Dexterous Three-Finger Hand Model：CTDH3F110

Model	CTDH3F110	Maximum Travel Distance	110 mm
Drive Method	Motor-driven	Self-weight	1.04 kg
Maximum Gripping Force	4 N(Single finger)	Maximum Current	2 A
Maximum Gripping Speed	225 mm/s	Repetitive Positioning Accuracy	±0.02 mm
Working Voltage	24 V	The Loudest Noise	64 dB
Maximum load (referring to the grasping operation)	2.5 kg		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~35° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU		

Strong grip strength　Precise control　Long lifespan　Low maintenance

Product dimensions diagram



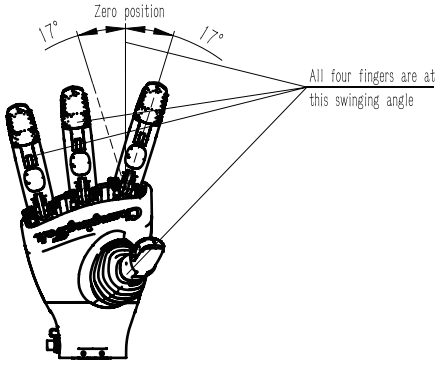
Specification Parameters

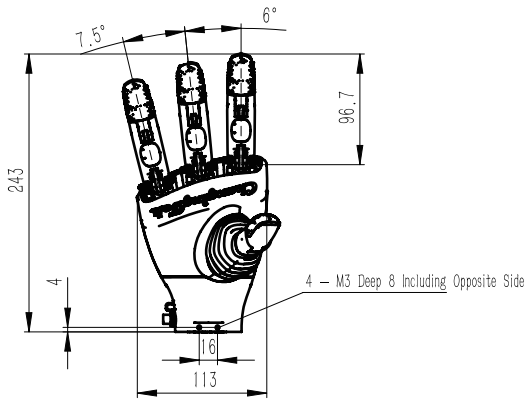
Lingsi Dexterous Four-Finger Hand Model：CTDH4F08D

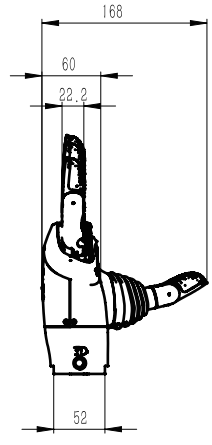
Model	CTDH4F08D	Maximum Travel Distance	80 mm
Drive Method	Motor-driven	Maximum Joint Speed	300 ° /S
Maximum recommended load	2.5 kg(Envelope)	Self-weight	0.7 kg
The Loudest Noise	60 dB	Maximum Current	1 A
Repetitive Positioning Accuracy	±0.15 mm	Working Voltage	24 V
Maximum Gripping Force (per finger)	6 N		
Feedbackable Parameters	Position, Speed, Force		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU		

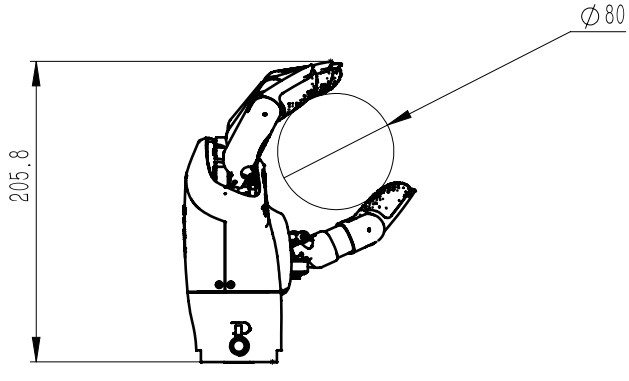
Integrated drive and control　Precise control　Long lifespan　Low maintenance

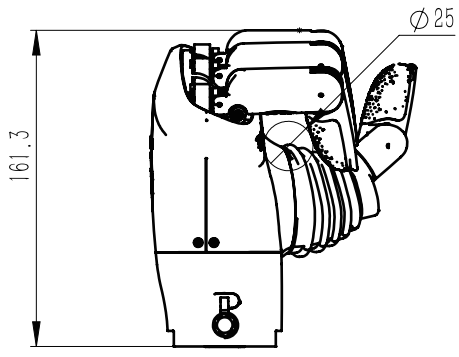
Product dimensions diagram











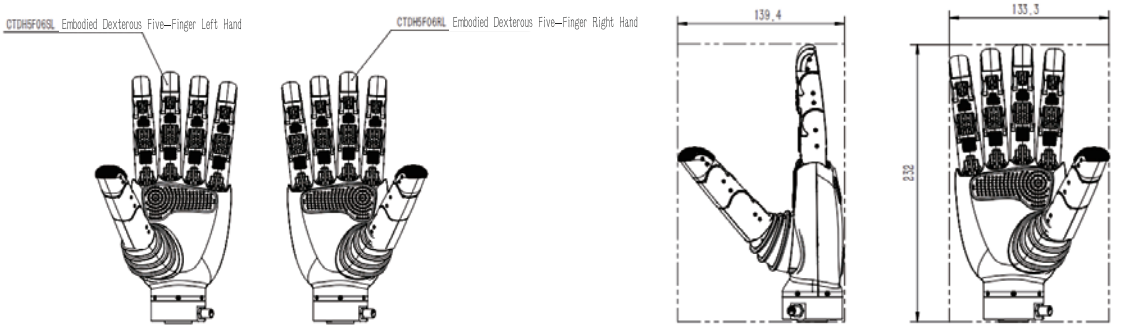
Specification Parameters

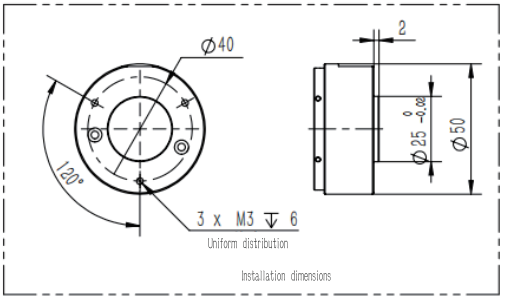
QianJi-Embodied Dexterous Five-Finger Hand Model：CTDH5FS

Model	CTDH5FS	Maximum Travel Distance	70 mm
Drive Method	Motor-driven	Maximum Gripping Speed	10 mm/s
Maximum Gripping Force	1 N	Maximum Current	1.8 A
Self-weight	0.5 kg	Working Voltage	24 V
Repetitive Positioning Accuracy	±0.03 mm	Maximum Joint Speed	300 ° /S
Feedbackable Parameters	Position, Force		
Control Accuracy (Position/Force)	0.1/0.1 mm/N		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Modbus RTU		

Integrated drive and control　Precise control　Long lifespan　Low maintenance

Product dimensions diagram





ACTUATOR SERIES

Product Features

- **High Integration and Intelligence**

  Utilizing a highly integrated design to reduce external components. Integrating intelligent algorithms to greatly simplify debugging.

- **Precise Control and Rapid Response**

  Achieve nanometer-level high-precision position/speed control with high bandwidth, and the response speed can reach the microsecond level to ensure high-speed and high-precision operations.

- **Comprehensive Diagnosis and Protection Functions**

  The design meets the requirements of wide-temperature operation, high protection level (water and dust resistance), vibration resistance and strong EMC electromagnetic interference, adapting to harsh environments such as industry and automotive.

- **Comprehensive Diagnosis and Protection Functions**

  Integrate real-time diagnosis and multiple electrical protections to ensure stable and reliable operation of the system.

- **Flexible Communication and Configuration Capability**

  Modular design and multiple control modes enhance configuration flexibility

- **Support for Secondary Development**

  Support RS485, IO control, adapt to ROS system, support secondary development of ros, expandable EtherCAT, CAN control, and provide complete SDK and API support.

Product Advantages

Precise Control

Intelligent and Efficient

Compact Design

Application Fields

Industrial Manufacturing

Food Production

Warehousing and Logistics

Household Appliances

Automotive and Related Fields

Aerospace

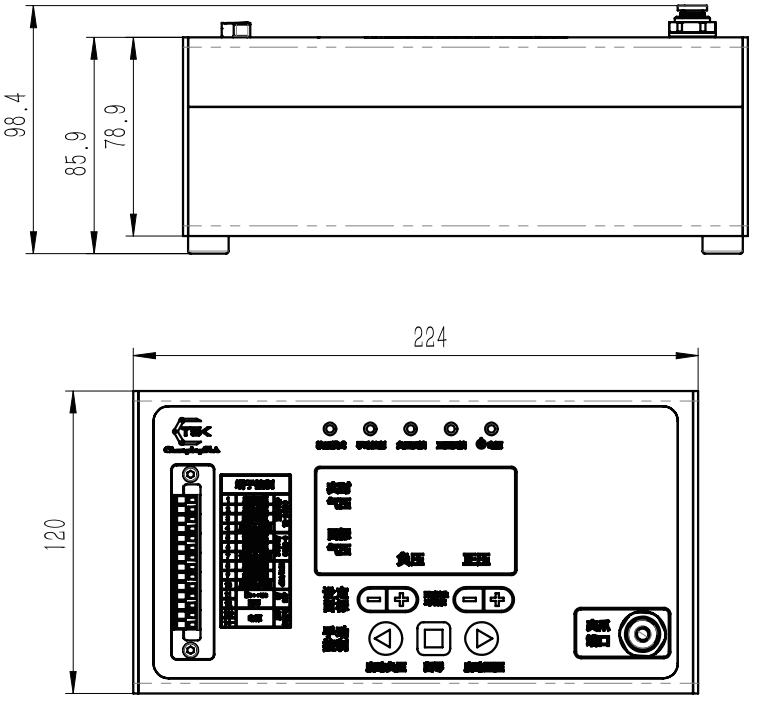
Specification Parameters

Pneumatic Active Driver Model：CTPAD-S

Model	CTPAD-S	Working Voltage	24V
Rated Power	48W	Drive Method	Electric pump drive
Output Pressure	-80 ~200 kPa	IP	IP40
The Loudest Noise	50dB	Self-weight	2kg
Maximum positive pressure flow rate	9L/min		
Maximum negative pressure flow rate	9L/min		
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	Manual button, I/O + analog quantity, MODBUS RTU		

Low maintenance cost　　Flexible arrangement　　High level of security

Product dimensions diagram



GENERAL WHEELED HUMANOID ROBOT

Dual-arm Collaborative 30kg Load Capacity

Support 850mm arm span

Support operation within a vertical range of 0~2.2m

0.075mm High-Precision Vision

Equipped with 1 set of grating structured light vision

Equipped with 2 sets of realistic binocular vision

0.2NM High-Resolution Flexible Control

Hybrid force-position control

Support dual-arm collaborative obstacle avoidance operation

Dual-arm Collaborative Obstacle Avoidance Planning

Support target recognition and pose positioning

Support whole-body coordinated motion planning

Specification Parameters

Mechanical Parameters	
Robot Height	650mm
Robot Stretch Height	1800mm
Total Weight	70kg
Body Degrees of Freedom	21Dof
Dexterous Hand	Optional
Joint Reducer	Harmonic Reducer
Joint Encoder	Dual Encoder
Perception Sensor	Structured light vision, real sense binocular vision, 3D laser radar
Electrical Parameters	
Rated Load of Single Arm	15kg
Arm Span Range	850mm
Vertical Working Range of Arm	0~2200mm
Six-dimensional Force Sensor	Configure
Supply Voltage	48V
Network Communication	WIFI/5G
Movement Speed	1.5m/s
Battery Life	6h
Software Parameters	
Navigation and Positioning Accuracy	±10mm
Arm Positioning Accuracy	±0.05mm
Force Sensing Accuracy	±0.2NM
Visual Positioning Accuracy	±0.075mm
Motion Planning and Obstacle Avoidance	Support
60 Working Pose Positioning	Support
Voice Interaction	Support
Drag Programming	Support

INTEGRATED ACTUATOR SERIES

Product Features

- **High Energy Density**
  High-strength steel structure + high-performance linear guideway, horizontal maximum load up to 40kg
- **Compact Design**
  Small overall size, deployable in confined spaces
- **High Speed & Repeat Positioning Accuracy**
  High-performance servo motor + precision ground ball screw, maximum speed up to 250mm/s, repeat positioning accuracy ±0.02mm
- **Integrated Drive & Control**
  Integrated drive-control design, supports horizontal, vertical, side-mounted, and ceiling-mounted installations
- **Intelligent Operation with Status Feedback**
  Real-time operation monitoring without external sensors
- **Secondary Development Support**
  Compatible with RS485, IO control, and ROS system (ROS1 -supported); expandable to EtherCAT/CAN control, with full SDK and API provision

Product Advantages

- Grasping feedback
- 0.1N Precision force control
- Multi-orientation installation
- Power-off self-locking

Application Fields

- 3C Electronics
- Precision Manufacturing
- New Energy
- Automotive & Related Industries

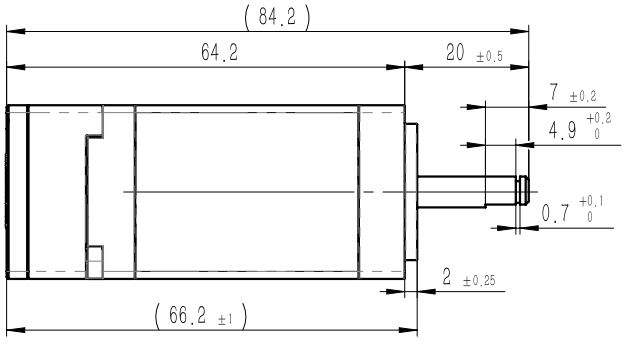
Specification Parameters

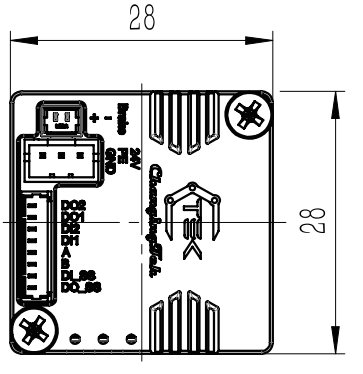
28 Servo Stepper Motor Protocol Model：CTSDM28-A1

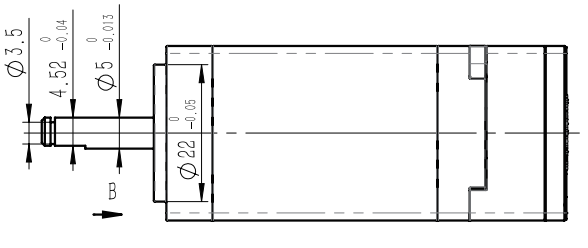
Model	CTSDM28-A1	Input Voltage	24V
Motor Length	66.2 mm	Peak Current	1A
Encoder	21-bit	Number of Phases	2 phases
Rated Torque	0.1Nm（low speed）	Motion Mode	Instruction mode
Position in-place Detection	Support	Speed in-place Detection	Support
Torque in-place Detection	Support	Fault Diagnosis	Support
Running Status Indicator	Support	Brake	Support
Operation Mode	Position mode, T-type, S-type Acceleration/Deceleration		
Operating Environment	Temperature: 0° C-30° C Relative Humidity: 5%RH-95%RH High Altitude Supported		
Communication Protocol	ModbusRTU+IO		

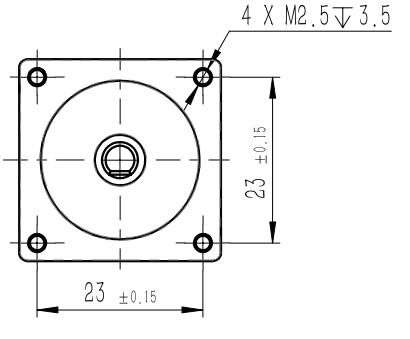
Position in-place Detection　Torque in-place Detection　Support Fault Diagnosis

Product dimensions diagram



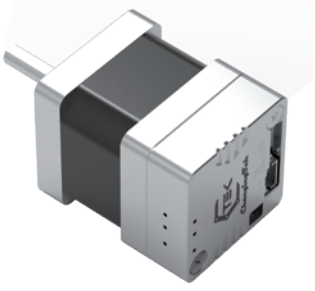






Specification Parameters

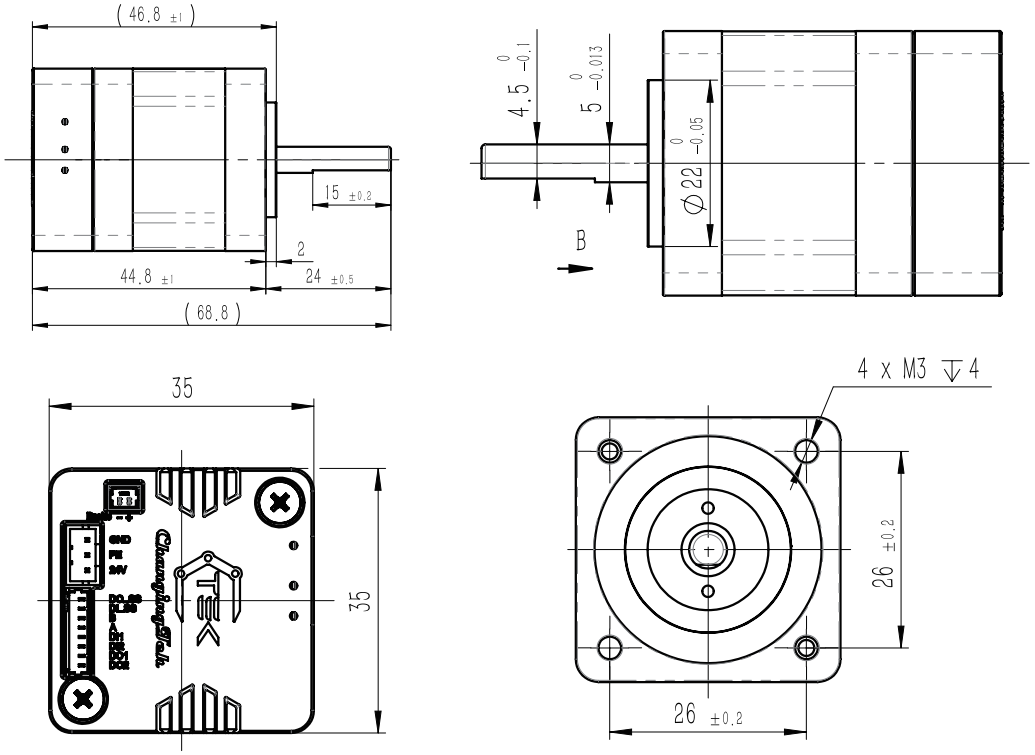
35 Servo Stepper Motor Model：CTSDM35-A1



Model	CTSDM35-A1	Input Voltage	24 V
Motor Length	46.8 mm	Peak Current	1 A
Encoder	21-bit	Maximum rotational speed	3000 RPM
Rated Torque	0.16 Nm（low speed）	Motion Mode	Instruction mode
Number of Phases	2 phases	Speed in-place Detection	Support
Position in-place Detection	Support	Fault Diagnosis	Support
Torque in-place Detection	Support	Brake	Support
Running Status Indicator	Support		
Operation Mode	Position mode, T-type, S-type Acceleration/Deceleration		
Operating Environment	Temperature: 0° C-30° C Relative Humidity: 5%RH-95%RH High Altitude Supported		
Communication Protocol	ModbusRTU+IO		

Position in-place Detection　Torque in-place Detection　Support Fault Diagnosis

Product dimensions diagram



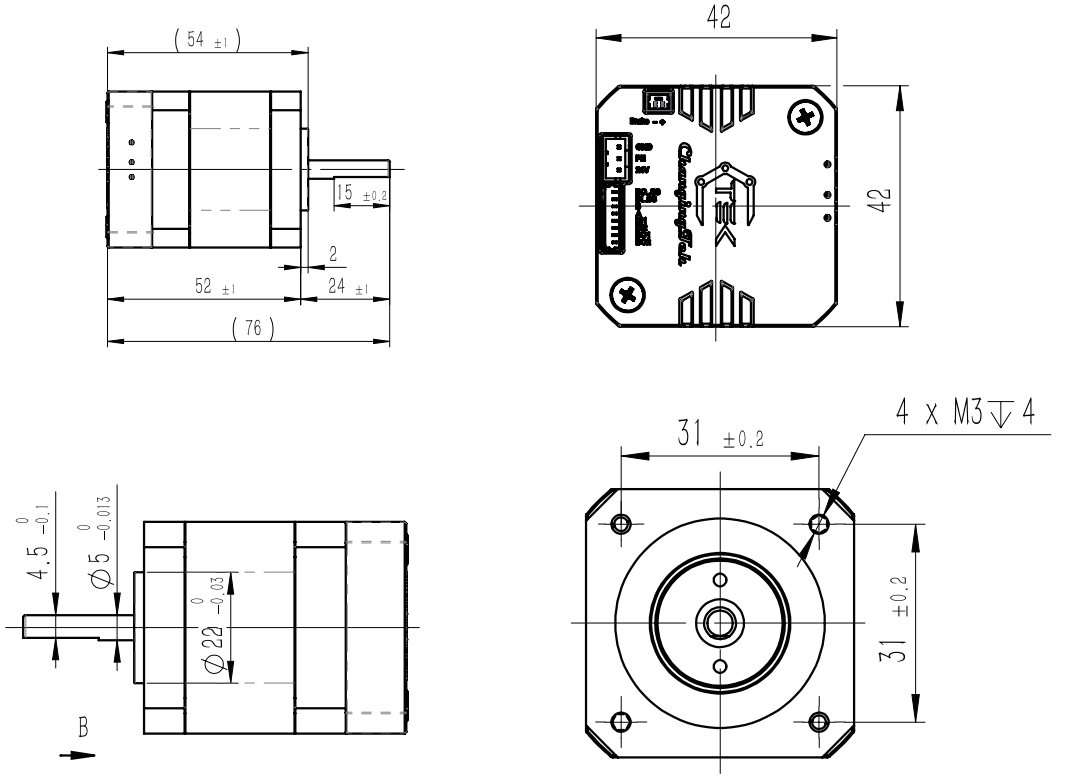
Specification Parameters

42 Servo Stepper Motor Protocol Model：CTSDM42-A1

Model	CTSDM42-A1	Peak Current	1.5 A
Motor Length	54mm	Input Voltage	24 V
Encoder	21-bit	Maximum rotational speed	2400 RPM
Rated Torque	0.4 Nm （low speed）	Number of Phases	2
Motion Mode	Instruction mode	peed in-place Detection	Support
Position in-place Detection	Support	Fault Diagnosis	Support
Torque in-place Detection	Support	Brake	Support
Running Status Indicator	Support		
Operation Mode	Position mode, T-type, S-type Acceleration/Deceleration		
Operating Environment	Temperature: 0° C-30° C Relative Humidity: 5%RH-95%RH High Altitude Supported		
Communication Protocol	ModbusRTU+IO		

Position in-place Detection　　Torque in-place Detection　　Support Fault Diagnosis

Product dimensions diagram



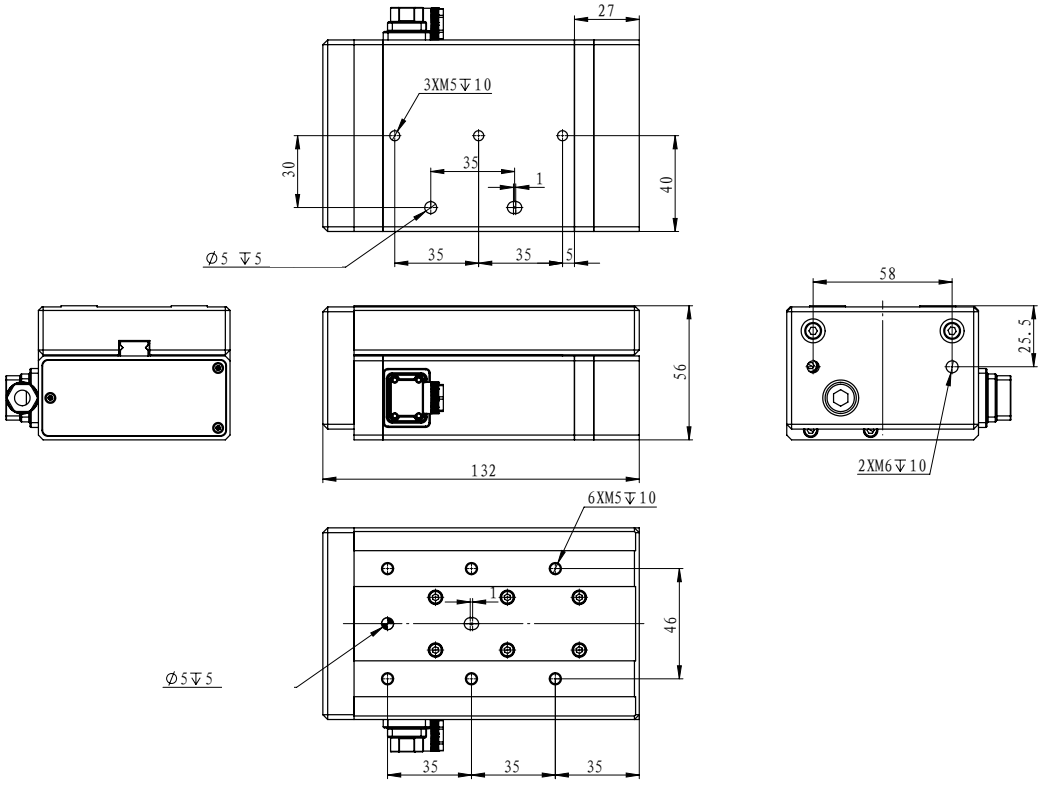
Specification Parameters

28 Servo Stepper Motor Protocol Model：CTMS28-W50

Slide Stage Model	CTMS-28-W	Repeat Positioning Accuracy	±0.02 mm
Stroke	50 mm（customizable）	Force Repeatability	±10%
Lead	2 mm	Operating Voltage	24 V
Maximum Thrust	300 N	Maximum Current	2 A
Maximum Speed	100 mm/s	Maximum Horizontal Load	6 kg
Programmable Parameters	Position, Speed, Force	Maximum Vertical Load	0.5 kg
Feedback Parameters	Position, Position, Torque		
Operating Environment	0~40° C, below 85%RH (no condensation)		
Communication Protocol	Modbus RTU		

Position Arrival Detection　　Torque Arrival Detection　　Support Fault Diagnosis

Product dimensions diagram

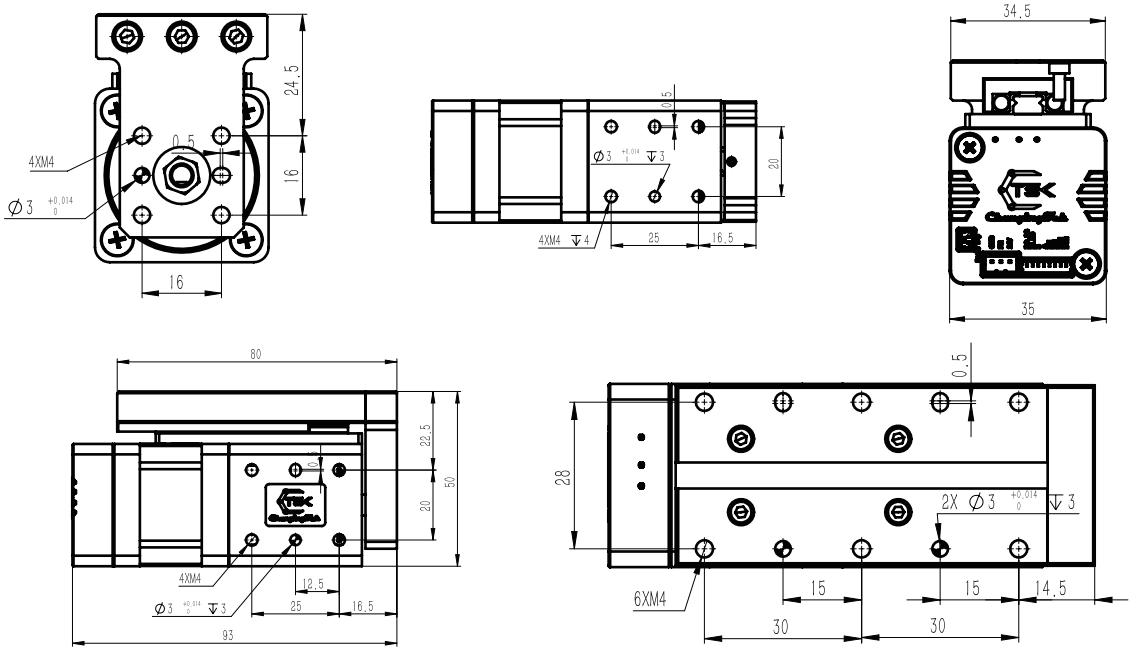


Specification Parameters

Mini Push Rod Slide Table

Specification	Slide Table Model	CTMS35-N30	
	Stroke（mm）	30（It can be customized）	
	Screw Lead（mm）	Rolled ±0.05	Ground ±0.02
	Force Control Accuracy（N）	±0.1	
	Ball Screw Lead（mm）	1	2
	Maximum Speed（mm/s）	50	100
	Maximum Thrust(N)	130	80
Component	Ball Screw Diameter	Diameter 6	
	Guide Method	Linear Guide	
	Sensor	No Sensor Included	
Electrical parameters	Rated Voltage (V)	24	
	Feedbackable Parameters	Position, Dimension, Current	
	Programmable Parameters	Position, Speed, Force	
	Communication Protocol	Modbus RTU （I/O optional）	

Product dimensions diagram

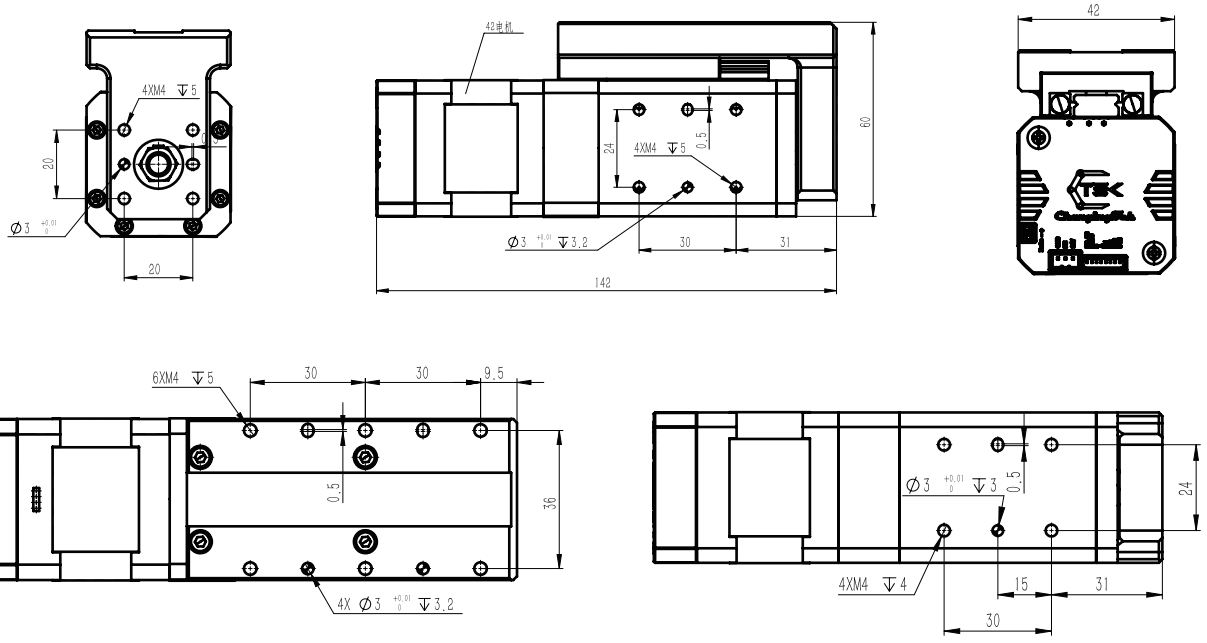


Specification Parameters

Mini Push Rod Slide Table

Specification	Slide Table Model	CTMS42-N30	
	Stroke（mm）	30（It can be customized）	
	Screw Lead（mm）	Rolled ±0.05	Ground ±0.02
	Force Control Accuracy（N）	±0.1	
	Ball Screw Lead（mm）	1	2
	Maximum Speed（mm/s）	50	100
	Maximum Thrust(N)	130	80
Component	Ball Screw Diameter	Diameter 6	
	Guide Method	Linear Guide	
	Sensor	No Sensor Included	
Electrical parameters	Rated Voltage(V)	24	
	Feedbackable Parameters	Position, Dimension, Current	
	Programmable Parameters	Position, Speed, Force	
	Communication Protocol	Modbus RTU （I/O optional）	

Product dimensions diagram



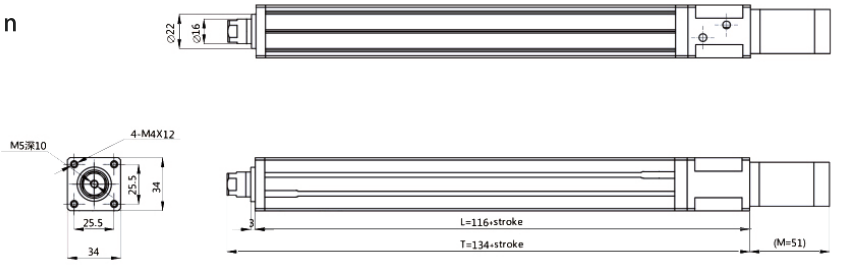
Specification Parameters

CTLA28 Electric Cylinder

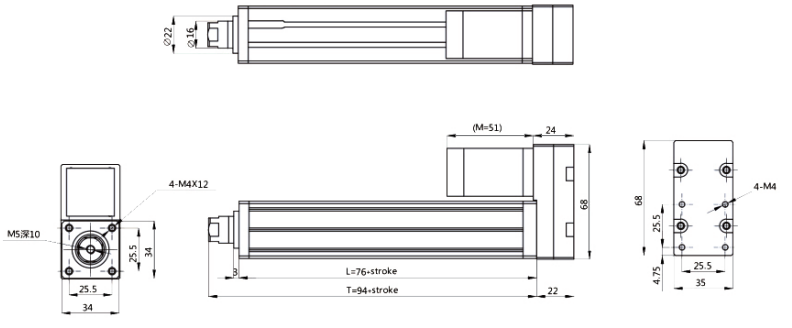
Electric Cylinder Model	CTLA28	Maximum Stroke	300 mm	
Repeat Positioning Accuracy	±0.02 mm	Screw Specification	Lead 5 mm, Diameter 12 mm, Class C5 Lead 10 mm, Diameter 12 mm, Class C7	
Maximum Recommended Load	8 kg	Maximum Thrust	220 N	75 N
Rated Torque	0.2 Nm	Maximum Operating Speed	40 mm/s	120 mm/s
Screw Accuracy Class	C7(±0.02)	Piston Rod Rotation Angle	±0.3 degrees	
Maximum Driving Torque	0.8 Nm	Base Weight (0mm stroke)	0.248 kg	
Additional Weight (per 100mm stroke)	0.274 kg	Coupling	/	
Magnetic Switch	CS1-M-1M	Contact Type Reed Switch, Cable Length 1 M		
	CS1-MN-3M	Non-contact Type Transistor (NPN), Cable Length 3 M		
	CS1-MP-3M	Non-contact Type Transistor (PNP), Cable Length 3 M		

Product dimensions diagram

Direct installation



Indirect installation



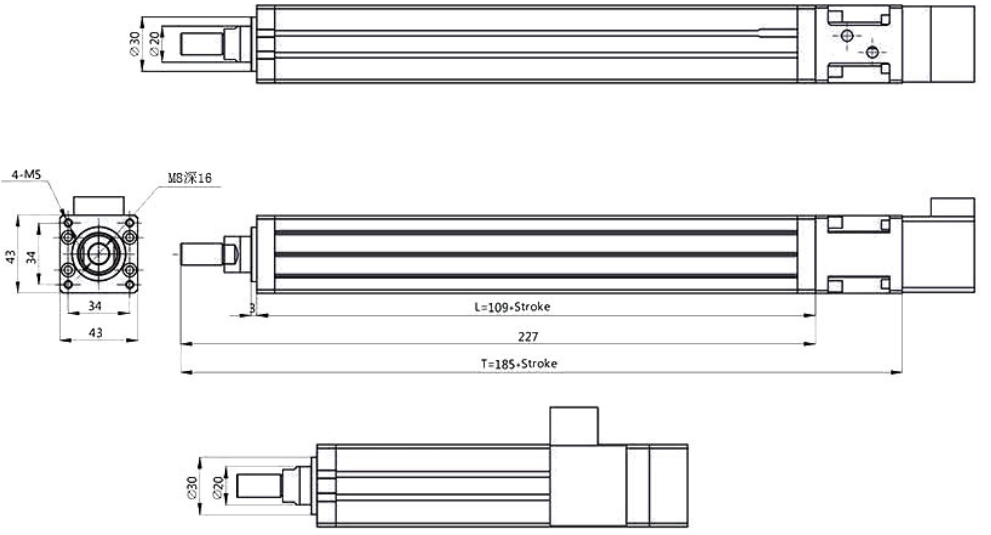
Specification Parameters

CTLA42 Electric Cylinder

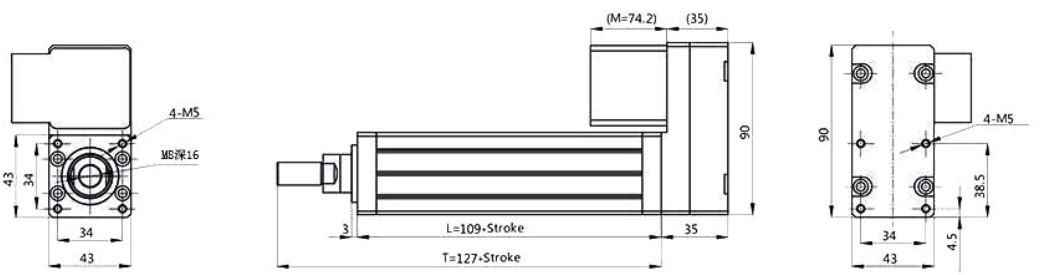
Electric Cylinder Model	CTLA42	Maximum Stroke	600 mm	
Repeat Positioning Accuracy	±0.02 mm	Screw Specification	Lead 5 mm, Diameter 12 mm, Class C5 Lead 10 mm, Diameter 12 mm, Class C7	
Maximum Recommended Load	20 kg	Maximum Thrust	250 N	125 N
Rated Torque	0.4 Nm	Maximum Operating Speed	50 mm/s	100 mm/s
Screw Accuracy Class	C7(±0.02)	Piston Rod Rotation Angle	±0.3 degrees	
Maximum Driving Torque	0.8 Nm	Base Weight (0mm stroke)	0.587 kg	
Coupling	/	Additional Weight (per 100mm stroke)	0.485 kg	
Magnetic Switch		CS1-M-1M	Contact Type Reed Switch, Cable Length 1 M	
		CS1-MN-3M	Non-contact Type Transistor (NPN), Cable Length 3 M	
		CS1-MP-3M	Non-contact Type Transistor (PNP), Cable Length 3 M	

Product dimensions diagram

Direct installation



Indirect installation



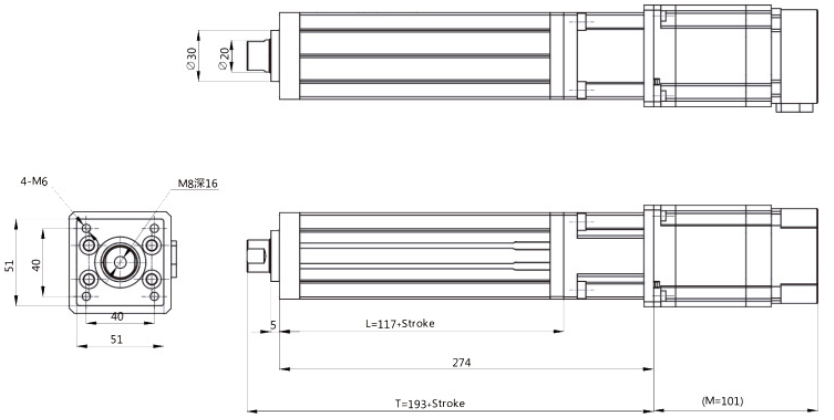
Specification Parameters

CTLA57 Electric Cylinde

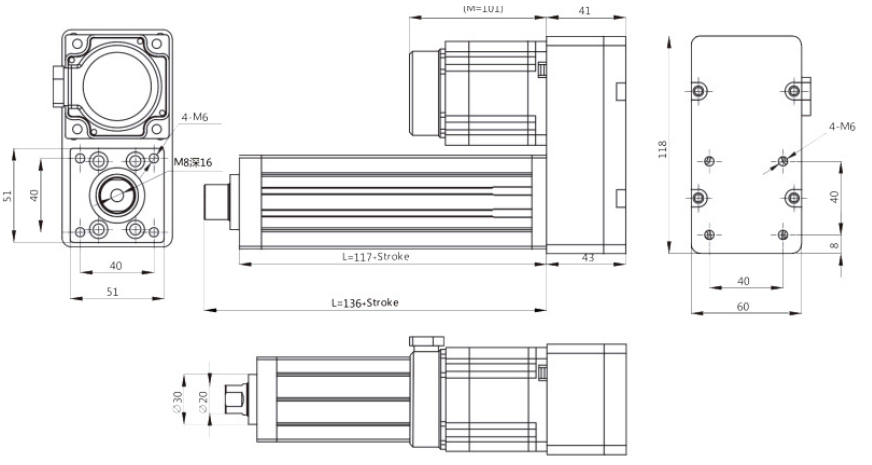
Electric Cylinder Model	CTLA57	Maximum Stroke	800 mm
Repeat Positioning Accuracy	±0.02 mm	Screw Specification	Lead 5 mm, Diameter 12 mm, Class C5 Lead 10 mm, Diameter 12 mm, Class C7
Maximum Recommended Load	40 kg	Maximum Thrust	300 N / 150 N
Rated Torque	1.8 Nm	Maximum Operating Speed	100 mm/s / 200 mm/s
Screw Accuracy Class	C5(±0.01) /C7(±0.02)	Piston Rod Rotation Angle	±0.3 degrees
Maximum Driving Torque	6 Nm	Base Weight (0mm stroke)	0.869 kg
Coupling	/	Additional Weight (per 100mm stroke)	0.629 kg
Magnetic Switch		CS1-M-1M	Contact Type Reed Switch, Cable Length 1 M
		CS1-MN-3M	Non-contact Type Transistor (NPN), Cable Length 3 M
		CS1-MP-3M	Non-contact Type Transistor (PNP), Cable Length 3 M

Product dimensions diagram

Direct installation



Indirect installation

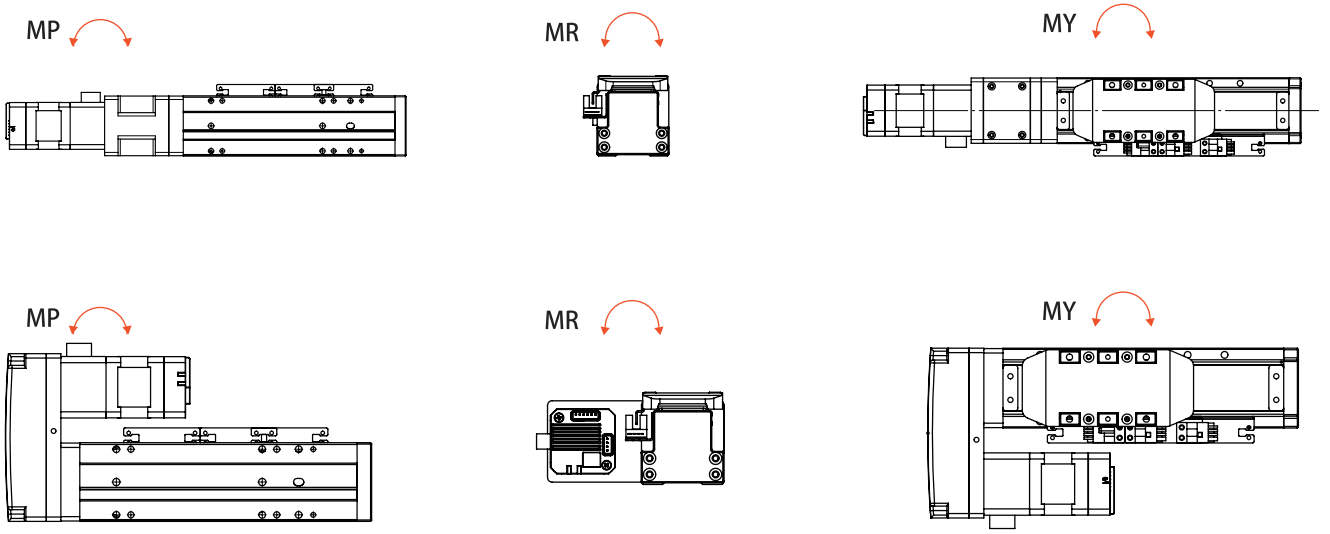


Specification Parameters

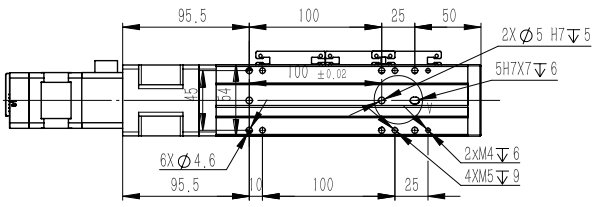
Slide Module

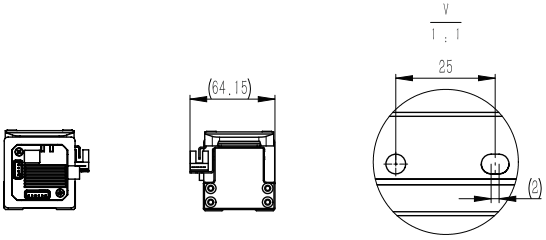
Slide Table Model	CTLM-45	Repeat Positioning Accuracy (mm)	±0.02/100mm	
Stroke（mm）	50-800（Interval: 50mm）			
Screw Lead（mm）		2	5	10
Maximum Speed（mm/s）		50	125	250
Maximum Payload（kg）	Horizontal Operation	30	30	15
	Vertical Operation	10	10	5
Maximum Thrust（N）		1000	500	250
Static Allowable Torque（N.m）		MY:103	MP:103	MR:144
Ball Screw Outer Diameter（mm）	Diameter 12, Accuracy Class C7			
Coupling（mm）	7X8			
Motor Model（mm）	57 Servo Stepper Motor			
Rated Voltage (V)	DC24±10%			
Operating Environment	0~40℃, Below 85%RH (No Condensation)			
IP	IP40			

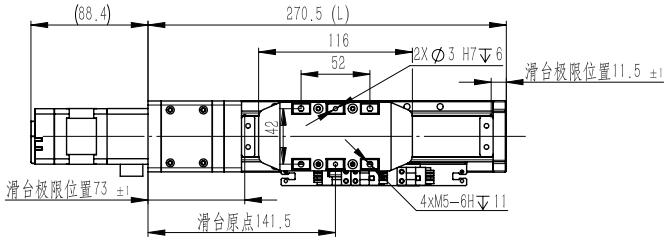
Product dimensions diagram

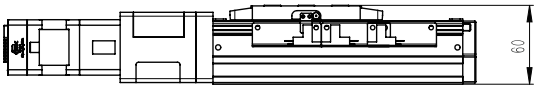


Direct installation

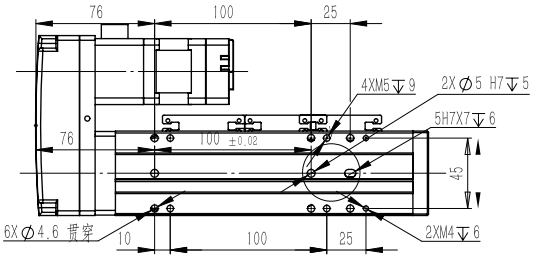


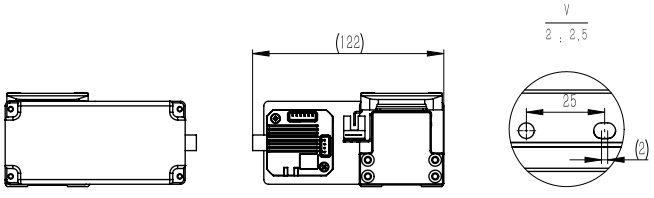


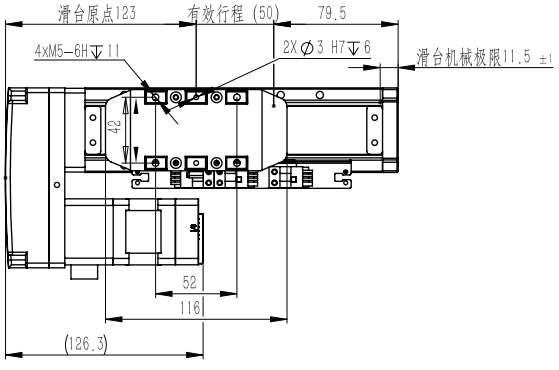


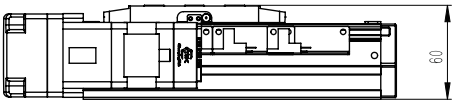


Indirect installation







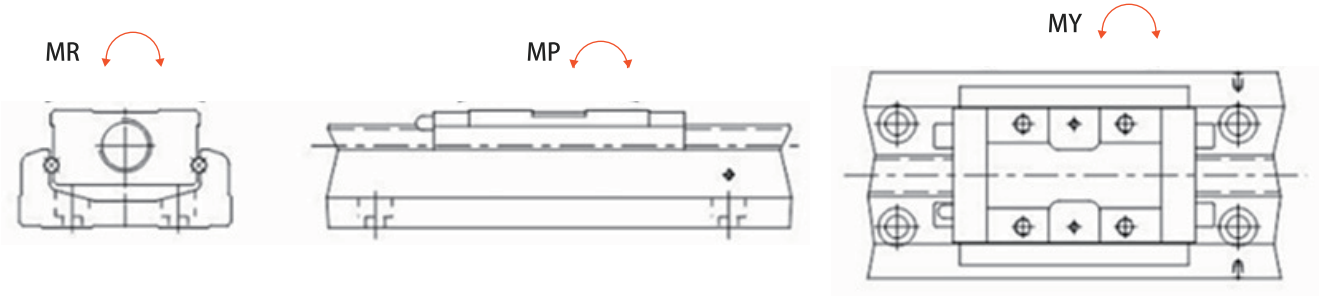


Specification Parameters

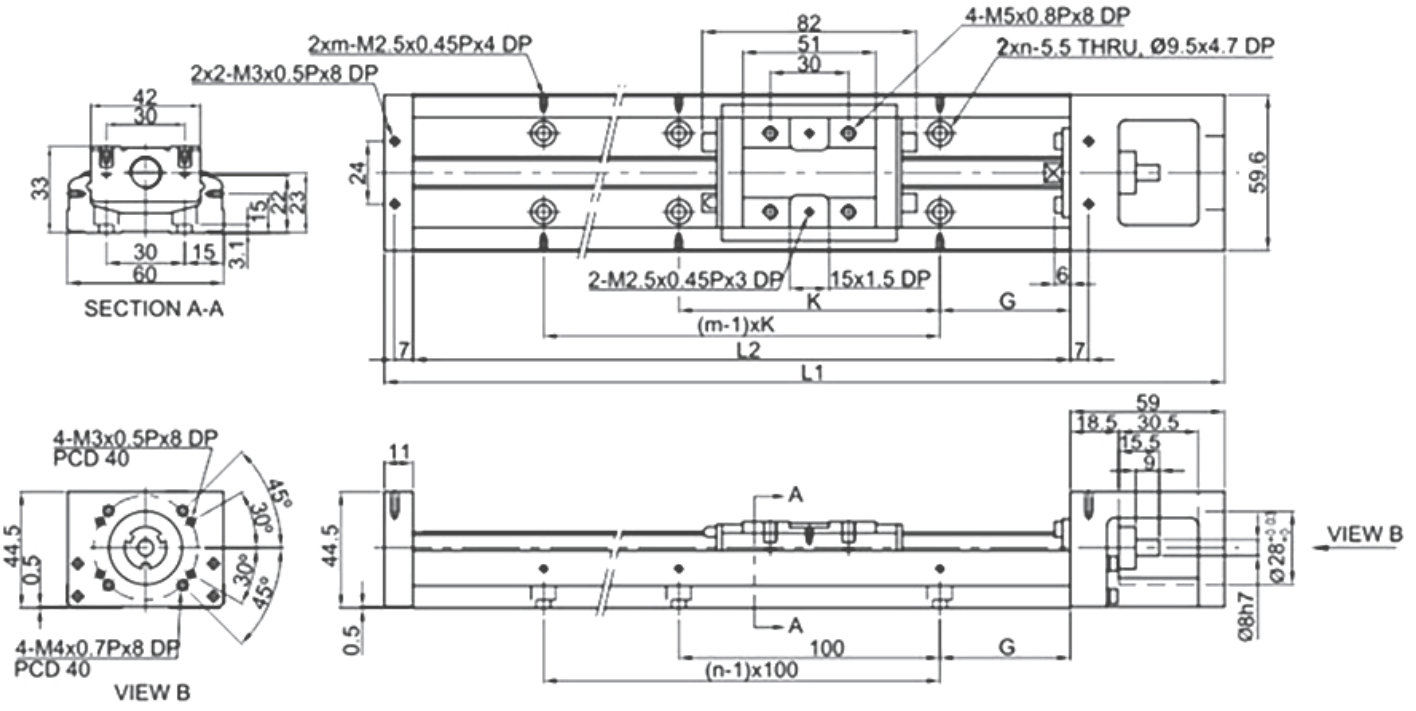
Slide Module

Slide Table Model	CTLM-60	Repeat Positioning Accuracy (mm)		±0.02/100mm
Stroke（mm）	60-510 (Interval: 50mm）			
Screw Lead（mm）		5	10	
Maximum Speed（mm/s）		100	200	
Maximum Payload（kg）	Horizontal Operation	30	15	
	Vertical Operation	10	5	
Maximum Thrust（N）		1000	500	
Static Allowable Torque（N.m）	MY:152	MP:152	MR:419	
Ball Screw Outer Diameter（mm）	Diameter 12, Accuracy Class C7			
Motor Model	57 Servo Stepper Motor			
Rated Voltage (V)	DC24±10%			
Operating Environment	0~40℃, Below 85%RH (No Condensation)			
IP	IP40			

Product dimensions diagram



Direct installation



轨道长度 L2(MM)	全长 L1(MM)	最大行程		G(mm)	K(mm)	N	M	重量（kg）	
		A1滑座	A2滑座					A1滑座	A2滑座
150	220	60	-	25	100	2	2	1.5	-
200	270	110	-	50	100	2	2	1.8	-
300	370	210	135	50	200	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	200	5	3	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

Electric Vacuum Actuator Series

Product Features

- **All-in-one integration, flexible deployment**
  Built-in electric vacuum pump, no external air compressor required; plug-and-play for quick deployment or reconfiguration
- **Simple maintenance, low cost**
  Eliminates air compressors and air pipelines, significantly reducing energy consumption, noise, and subsequent maintenance costs
- **Compact structure, strong adaptability**
  Compact and lightweight design, suitable for space-constrained scenarios; suction cups and robotic arms can be flexibly replaced to adapt to different workpieces
- **High precision and reliability**
  Adopts servo motors and high-precision encoders, adapting to harsh industrial environments such as high temperature and high pressure
- **Non-intrusive design, easy maintenance**
  Parameter debugging and status diagnosis can be performed without opening the casing, ensuring safety and efficiency while reducing maintenance difficulty
- **Integrated software, easy programming**
  Equipped with intuitive software for easy integration and programming, enabling operators to get started quickly

Product Advantages


No external air supply required


Drop detection


Grasp feedback


Break vacuum function

Application Fields


Industrial manufacturing


Food production


Warehouse logistics


Household appliances


Automotive and related fields


Aerospace

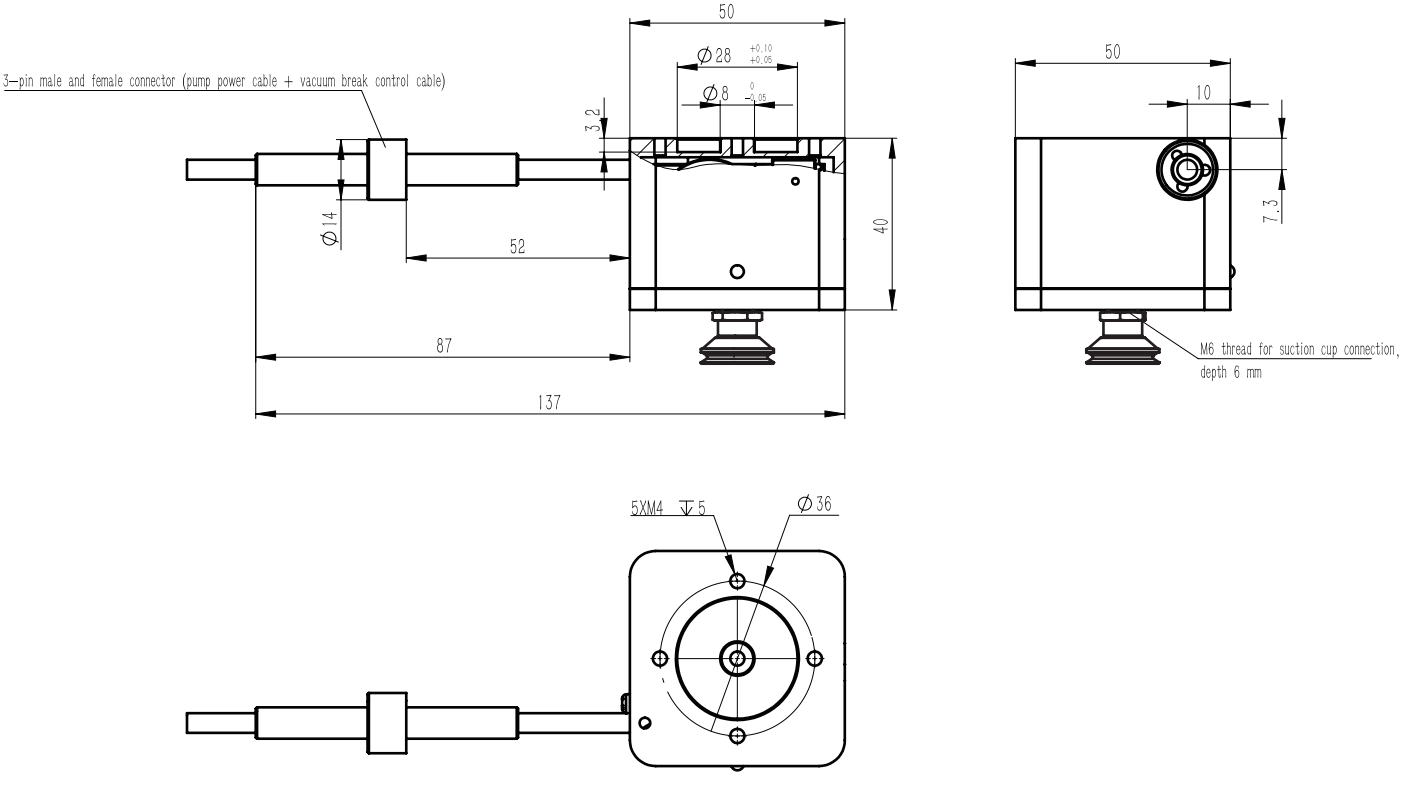
Specification Parameters

Electric Suction Gripper Model：CTMSC1F50.00

Model	CTMSC1F50.00	Pick-and-Place Speed	< 0.3S
Maximum Vacuum Level	-50Kpa	Vacuum Flow Rate	⩾1.2L/min
Maximum Payload	2kg	Operating Voltage	DC 24V
Self-weight	190g	Power Consumption	⩽5W
Operating Temperature Range	0~50℃	IP	IP40
Operating Humidity Range	Below 80%RH (No condensation)		
Communication Protocol	I/O		

Note: Suction cup tip not included; customizable

Product dimensions diagram



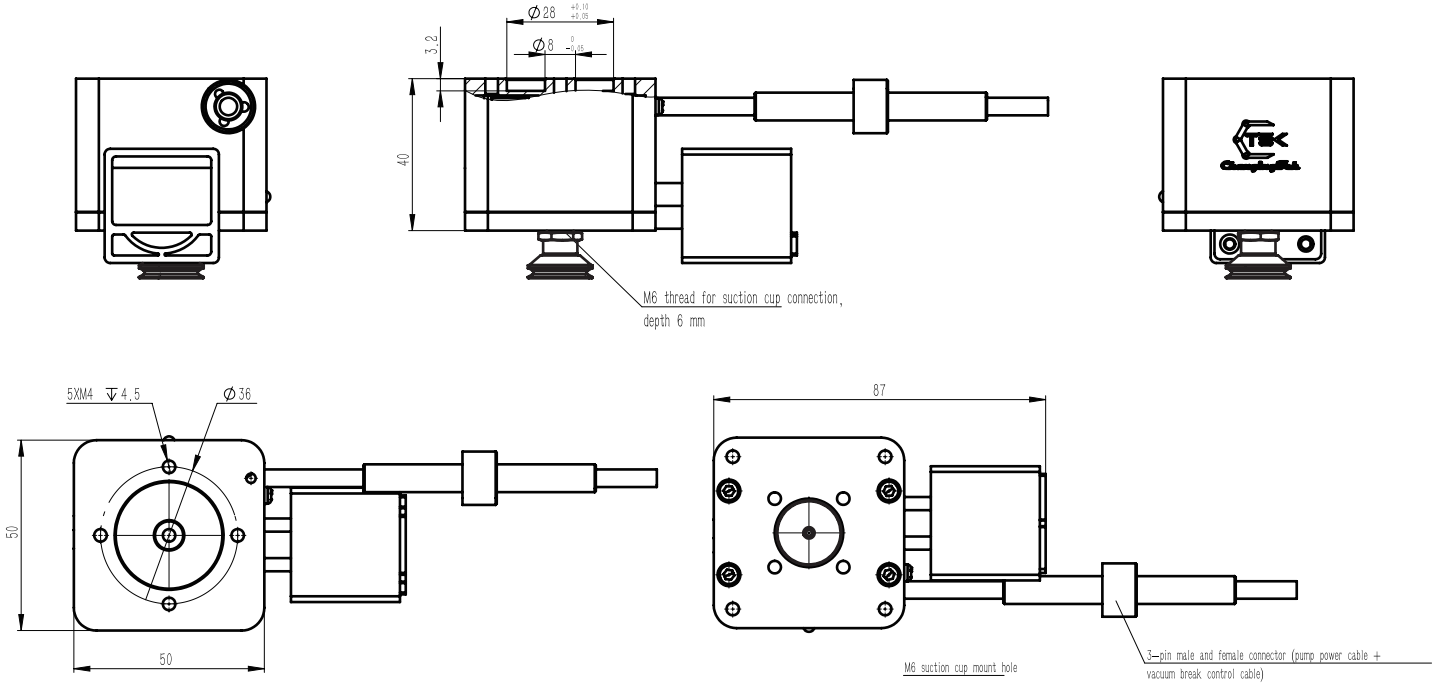
Specification Parameters

Electric Suction Gripper Model：CTMSC1F50.00A

Model	CTMSC1F50.00A	Pick-and-Place Speed	< 0.3S
Maximum Vacuum Level	-50Kpa	Vacuum Flow Rate	⩾1.2L/min
Self-weight	310g	Operating Voltage	DC 24V
Maximum Payload	2kg	Power Consumption	⩽5W
Operating Temperature Range	0~50℃	IP	IP40
Operating Humidity Range	Below 80%RH (No condensation)		
Communication Protocol	I/O		

Note: Suction cup tip not included; customizable

Product dimensions diagram



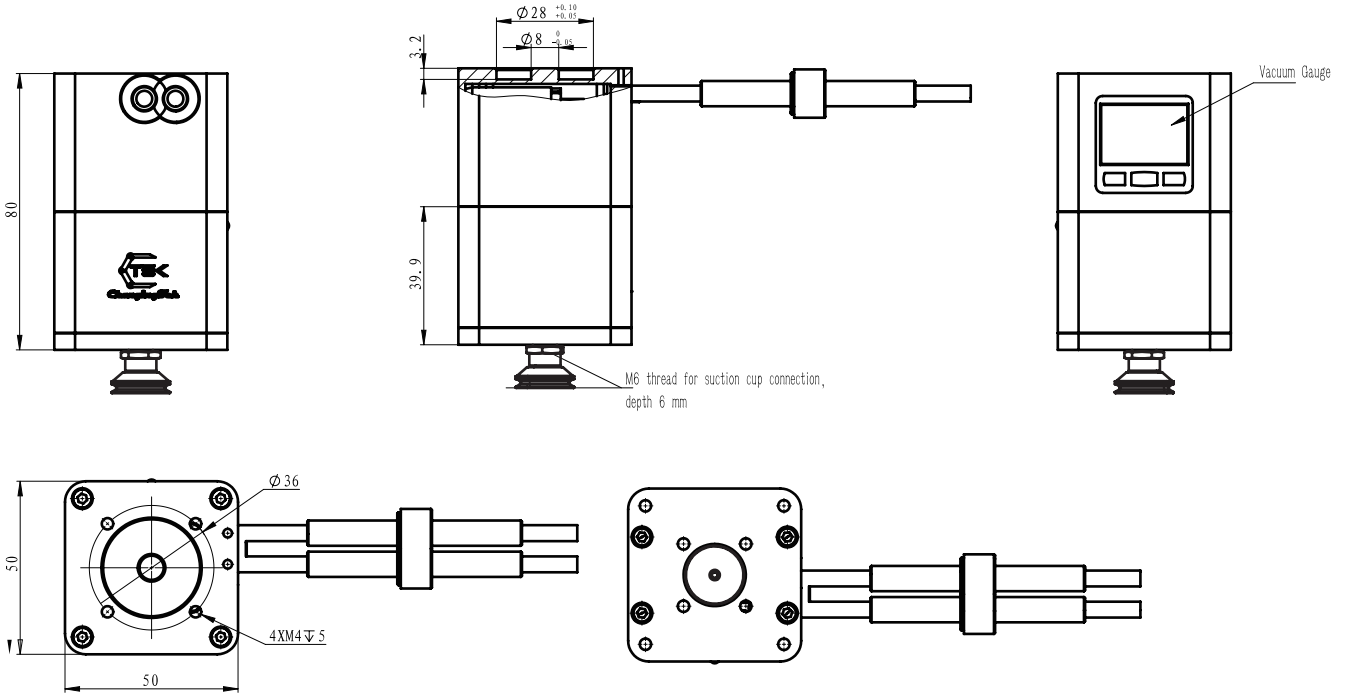
Specification Parameters

Electric Suction Gripper Model：CTMSC1F50.00B

Model	CTMSC1F50.00B	Pick-and-Place Speed	< 0.3S
Maximum Vacuum Level	-50Kpa	Vacuum Flow Rate	⩾1.2L/min
Self-weight	350g	Operating Voltage	DC 24V
Maximum Payload	2kg	Power Consumption	⩽5W
Operating Temperature Range	0~50℃	IP	IP40
Operating Humidity Range	Below 80%RH (No condensation)		
Communication Protocol	I/O		

Note: Suction cup tip not included; customizable

Product dimensions diagram

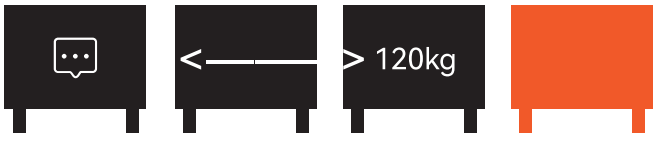


HEAVY-DUTY GRIPPERS SERIES

Product Features

- **Envelope Adaptive Grasping**
  Built-in drive control, modular design, independent control of each finger, enabling adaptive grasping and improving grasping stability.
- **Customizable**
  Customizable according to customer requirements.
- **Precise Force Control**
  Equipped with built-in high-precision encoders and torque sensors, it enables independent and precise control of clamping force, position, and movement speed. This avoids damage to the surface of precision workpieces and achieves "gentle handling"
- **Ultra-high Payload**
  Maximum payload up to 120kg, meeting the grasping needs of heavier objects.
- **Support for Secondary Development**
  Supports RS485 and IO control, adapts to ROS system and ROS1 secondary development; can be extensible to EtherCAT and CAN control, with complete SDK and API support……
- **Safe and Reliable**
  Stable clamping and high reliability provide a safety foundation for human-machine collaboration.

Product Advantages



Grasp Feedback | Ultra-large Stroke | Ultra-high Payload | Customizable

Application Fields

Industrial manufacturing | Food production | Warehouse logistics | Household appliances | Automotive and related fields | Aerospace

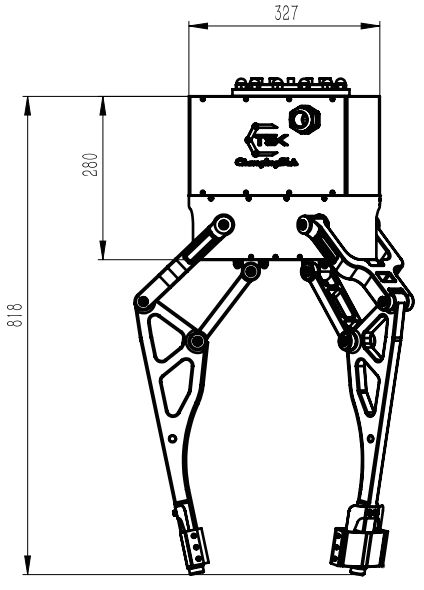
Specification Parameters

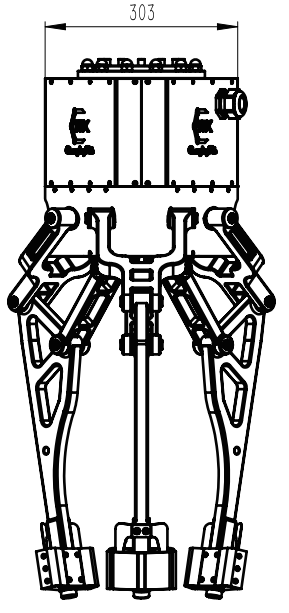
Heavy-Duty Modular Three-Finger Hand
Model：CTHM3F460

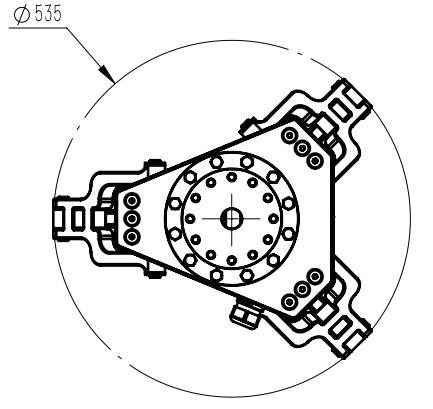
Model	CTHM3F460	Maximum Stroke	460 mm
Driving Method	Servo Drive	Maximum Payload	60 kg
Maximum Gripping Force	100 N	Self-weight	35 kg
Maximum Gripping Speed	200 mm/s	Repeat Positioning Accuracy	±0.3 mm
Control Accuracy (位置/力)	1 mm/1 N	Maximum Current	25 A
Operating Voltage	24 V	Communication Protocol	I/O Modbus RTU
Programmable Parameters	Position, Speed, Force		
Feedbackable Parameters	Position, Dimension, Current		
Recommended Operating Environment (温湿度)	0~40° C, Below 85%RH (No Condensation)		

Integrated Drive & Control, Modular Design, Large Stroke, Ultra-high Payload

Product dimensions diagram







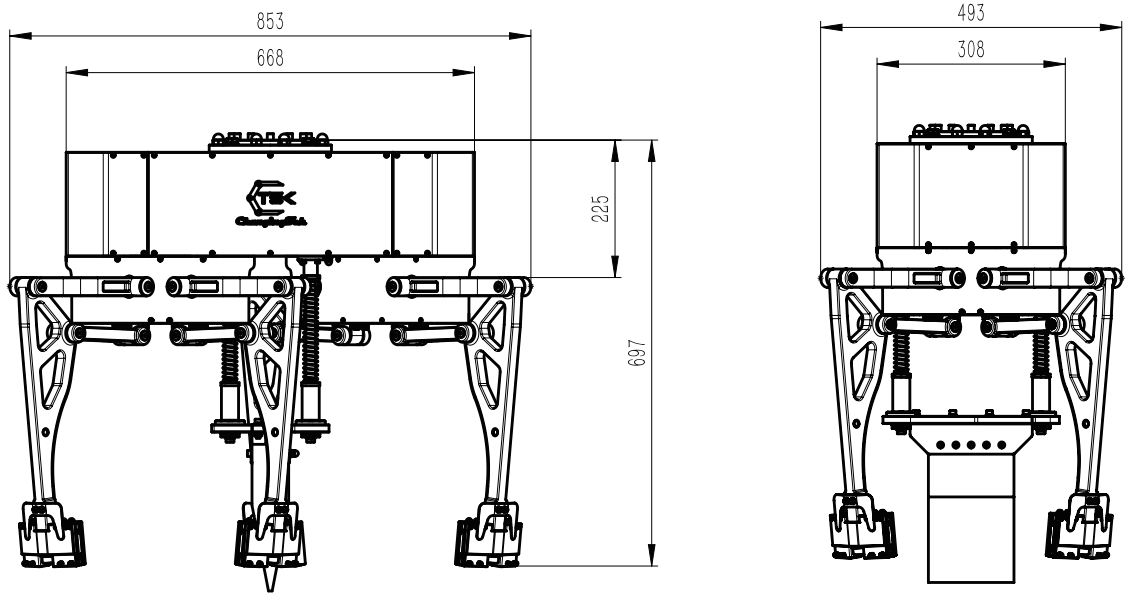
Specification Parameters

Heavy-Duty Modular Six-Finger Hand
Model：CTHM6F460

Model	CTHM6F460	Maximum Stroke	460 mm
Driving Method	Servo Drive	Maximum Payload	120 kg
Maximum Gripping Force	100 N	Self-weight	80 kg
Maximum Gripping Speed	200 mm/s	Repeat Positioning Accuracy	±0.3 mm
Control Accuracy	1 mm/1 N	Maximum Current	50 A
Operating Voltage	48 V	Programmable Parameters	Position, Speed, Force
Feedbackable Parameters	Position, Dimension, Current		
Recommended Operating Environment	0~40° C, Below 85%RH (No Condensation)		
Communication Protocol	I/O Modbus RTU TCP/IP		

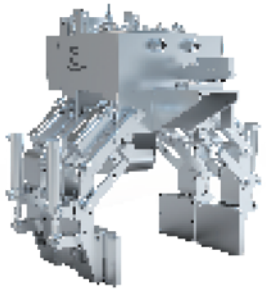
Integrated Drive & Control, Modular Design, Large Stroke, Ultra-high Payload

Product dimensions diagram



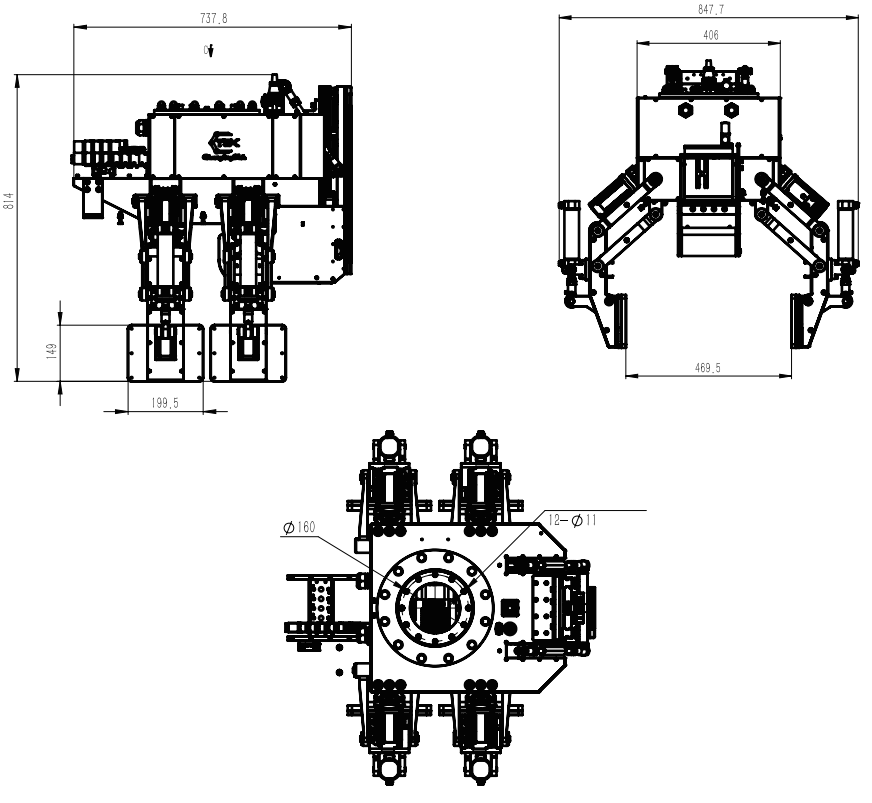
Specification Parameters

Heavy-Duty Five-Finger Hand model：CTHM5F530



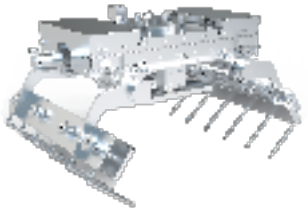
Model	CTHM5F530	Maximum Gripping Force per Finger	150N
Maximum Payload	80Kg	Maximum Grasping Speed	20° /s
Self-weight	⩽90Kg	Operating Voltage	48V
Maximum Stroke	530mm	Operating Air Pressure	0.6-0.7Mpa
Luggage Dimensions	550 mm (L) × 500 mm (W) × 700 mm (H)		
Driving Method	Hybrid drive of motor, linear module, and pneumatic cylinder		
Recommended Operating Environment	0~40° C, Below 85%RH (No Condensation)		
Communication Protocol	Modbus TCP + Modbus RTU(RS485) + IO		
Low Maintenance Cost		Flexible Layout	Ultra-high Payload

Product dimensions diagram



Specification Parameters

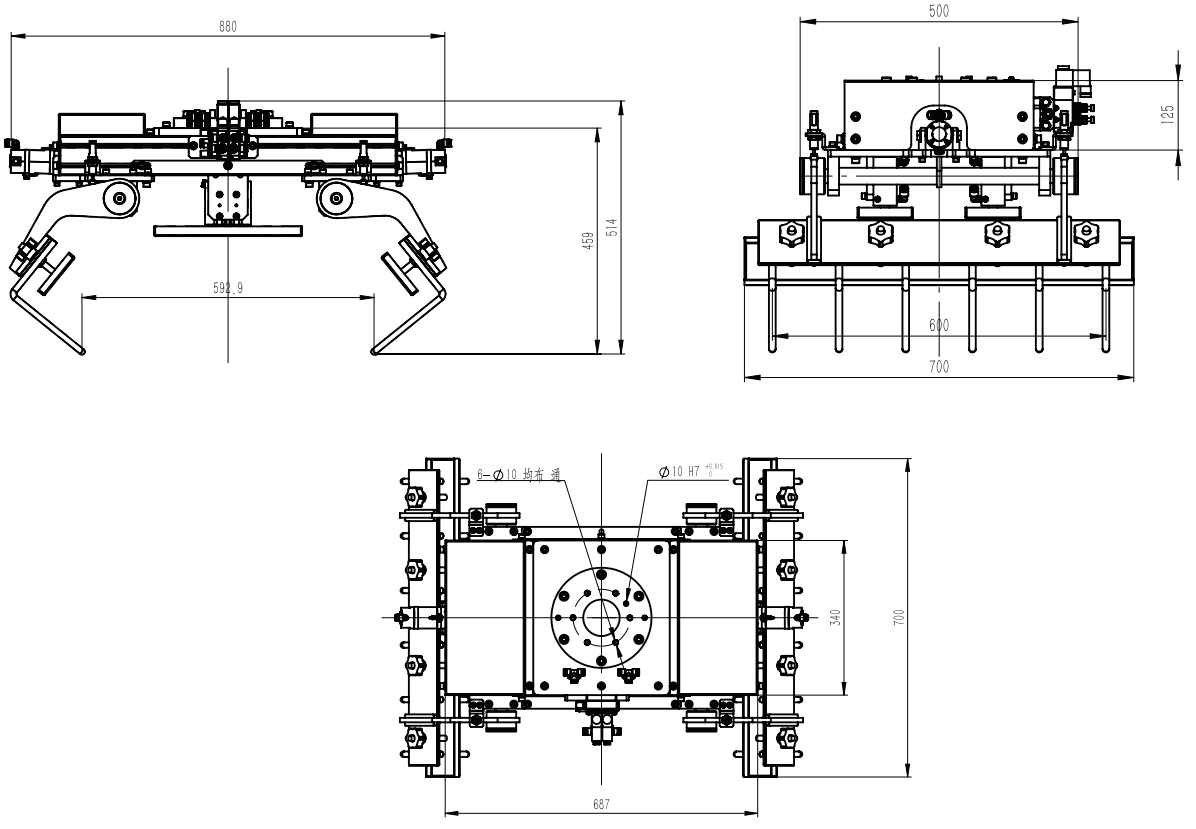
Bag Stacking Gripper model：CTABG430



Model	CTABG430	Maximum Thickness of Graspable Bag	180 mm
Supply Air Pressure	0.7 Mpa	Maximum Width of Graspable Bag	430 mm
Maximum Payload	60 kg	Maximum Length of Graspable Bag	800 mm
Compression Stroke	50 mm	IP	IP54
Driving Method	Pneumatic		
Recommended Operating Environment	0~40° C, Below 85%RH (No Condensation)		
Communication Protocol	I/O	Self-weight	50 kg

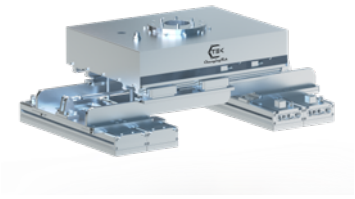
Low Maintenance Cost　　Flexible Layout　　Ultra-high Payload

Product dimensions diagram



Specification Parameters

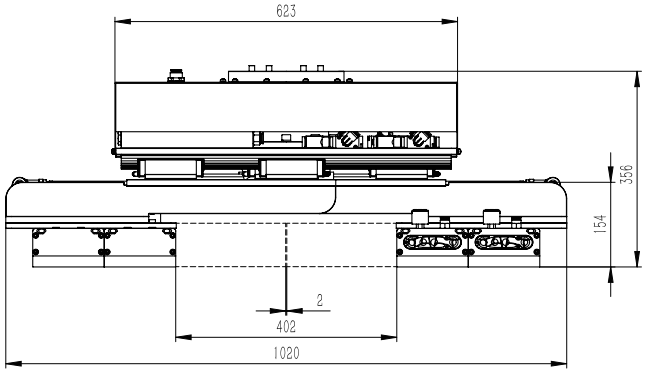
Multi-Functional Sponge Suction Gripper model：CTABX400

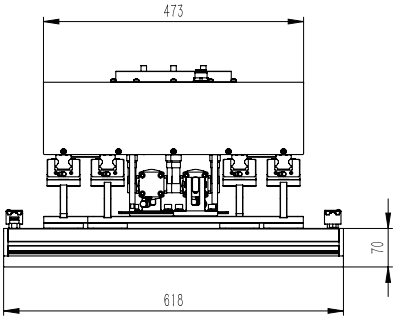


Model	CTABX400	Self-weight	70 kg
Sponge Thickness	20 mm	Supply Air Pressure	0.8 Mpa
Number of Suction Holes	99 × 4 (个)	Inlet Air Pressure	⩾0.8 Mpa
Air Consumption	270 × 4 L/min	Opening Stroke	400 mm
Maximum Vacuum Level	60%	Communication Protocol	I/O
Suction Force	820 × 4 N		
Recommended Operating Environment	0~40° C, Below 85%RH (No Condensation)		

Low Maintenance Cost, Flexible Layout, Ultra-high Suction Force, High Safety

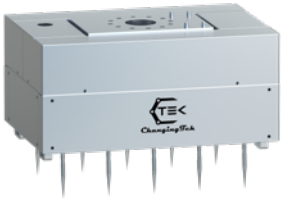
Product dimensions diagram





Specification Parameters

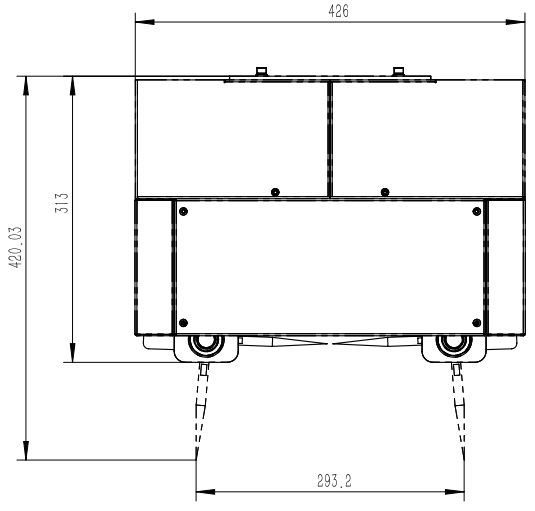
Direct Puncture Bag-Breaking Gripper model：CTABG100

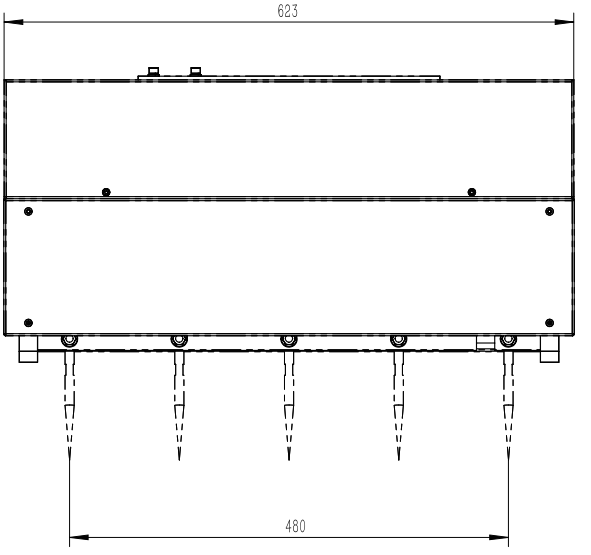


Model	CTABG100	Supply Air Pressure	0.7 Mpa
Driving Method	Pneumatic Cylinder	Communication Protocol	I/O
Self-weight	67 kg	IP	IP54
Operating Voltage	24 V		
Maximum Recommended Payload	60 kg		
Dimensions of Graspable Product (L×W×H)	800 mm × 400 mm × 200 mm		

Low Maintenance Cost　　Flexible Layout　　High Safety

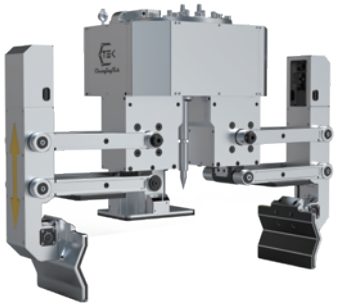
Product dimensions diagram





Specification Parameters

Luggage Gripper model：CTBSM2F670.00

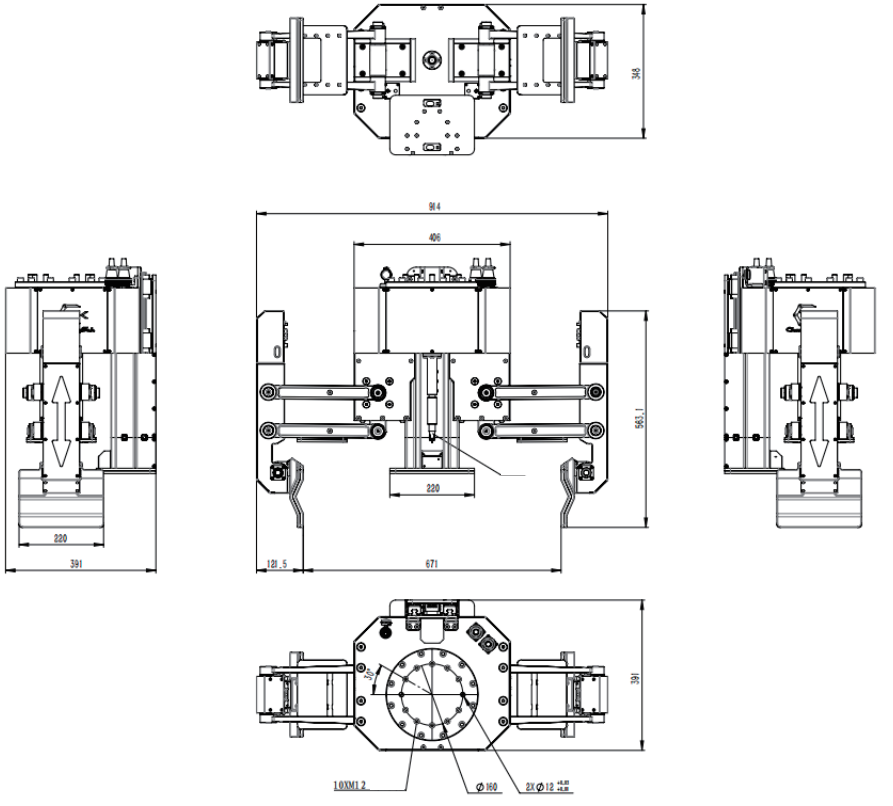


Model	CTBSM2F670.00	Repeat Positioning Accuracy	±0.2mm
Motor Type	Servo Motor	Backlash	<0.5mm
Maximum Gripping Force	1200N	Weight	50kg
Maximum Jaw Opening/Closing Speed	300mm/s		
Allowable Acceleration During Movement	0.2g		
Stroke	330 mm (Closed: 340 mm, Opened: 670 mm)		
Driving Method	Worm Gear + Planetary Reduction		

Low Maintenance Cost　　Flexible Layout　　High Safety

*The actual workpiece handling weight varies with the friction coefficient and shape between the gripper jaws and the workpiece material; generally, 5%~10% of the gripping force is taken as the reference standard

Product dimensions diagram



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