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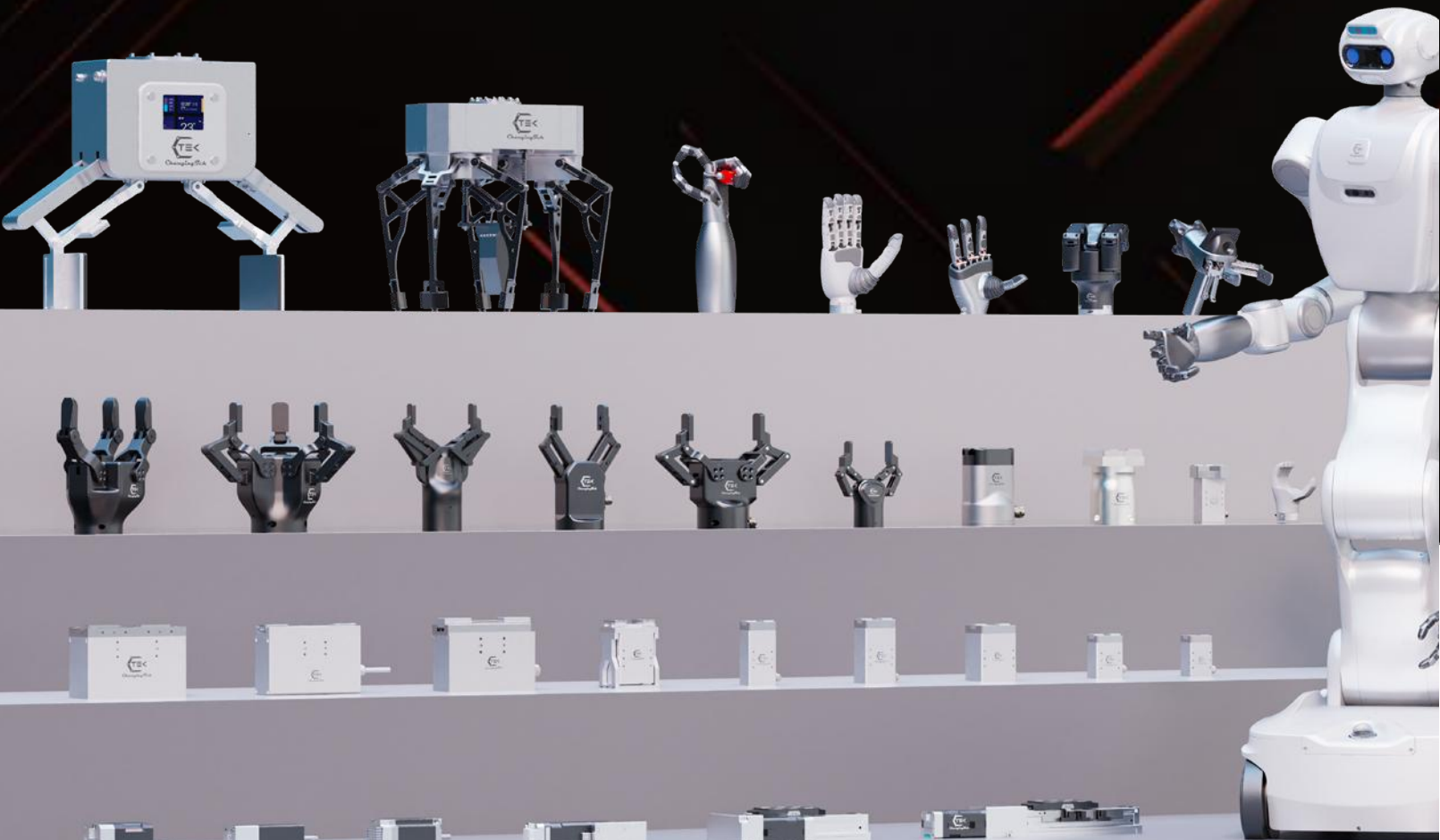
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Changtingtek Robotics Technology (Suzhou) Co., Ltd.



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. has rapidly grown into a national high-tech enterprise specializing in the research, development, and production of humanoid grippers and embodied intelligent robots since its establishment in August 2018. Relying on an experienced R&D team and profound insights into technologies across multiple industries, the company has successfully established three core intelligent ecological technologies: mechanical intelligence (adaptive reconfigurable technology), perceptual intelligence (multi-information fusion technology), and drive-control intelligence (AI control technology).

On this basis, the company has launched the ChangingTek Gripper series of products, covering four categories: industrial parallel grippers, collaborative grippers, bionic grippers, and heavy-duty grippers, providing flexible, reliable, safe, and intelligent robot solutions for multiple fields such as aerospace, industrial manufacturing, warehousing and logistics, education and scientific research, and life sciences.

Headquartered in Taicang, Suzhou, the company operates four major domestic bases in North, South, East and Southwest China, and has cooperative agents across North America and Europe. Since its founding, we have obtained more than 200 intellectual property rights and won over 60 awards in domestic and international competitions, demonstrating strong technological innovation capabilities and market competitiveness. In addition, the company has completed Series B financing totaling nearly 100 million yuan, laying a solid foundation for sustainable development and technological innovation in the future.



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FULL RANGE OF PRODUCTS OVERVIEW

Parallel Gripper Series

◆ 8S Parallel Two-Finger Gripper

I CTPM2F8S >Page08



Stroke: 8 mm
Gripping Force: 3 N
Payload: 0.1 kg
Self Weight: 0.3 kg
Communication Protocol: RS485/IO

◆ 14 Parallel Two-Finger Gripper

I CTPM2F14 >Page10



Stroke: 14 mm
Gripping Force: 16 N
Payload: 0.4 kg
Self Weight: 0.6 kg
Communication Protocol: RS485/IO

◆ 26 Parallel Two-Finger Gripper

I CTPM2F26 >Page12



Stroke: 26 mm
Gripping Force: 35 N
Payload: 1 kg
Self Weight: 0.95 kg
Communication Protocol: RS485/IO

◆ 40S-D Parallel Two-Finger Gripper

I CTPM2F40S-D >Page14



Stroke: 40 mm
Gripping Force: 350 N
Payload: 8 kg
Self Weight: 1.2 kg
Communication Protocol: RS485/IO/CAN/CANFD

◆ 60L-D Parallel Two-Finger Gripper

I CTPM2F60L-D >Page16



Stroke: 60 mm
Gripping Force: 200 N
Payload: 5 kg
Self Weight: 1.4 kg
Communication Protocol: RS485/IO/CAN/CANFD

◆ 14S Parallel Two-Finger Gripper

I CTPM2F14S >Page09



Stroke: 14 mm
Gripping Force: 8 N
Payload: 0.2 kg
Self Weight: 0.4 kg
Communication Protocol: RS485/IO

◆ 20 Parallel Two-Finger Gripper

I CTPM2F20 >Page11



Stroke: 20 mm
Gripping Force: 24 N
Payload: 0.5 kg
Self Weight: 0.8 kg
Communication Protocol: RS485/IO

◆ 30 Parallel Two-Finger Gripper

I CTPM2F30 >Page13



Stroke: 30 mm
Gripping Force: 30 N
Payload: 1 kg
Self Weight: 1.2 kg
Communication Protocol: RS485/IO

◆ 60S-D Parallel Two-Finger Gripper

I CTPM2F60S-D >Page15



Stroke: 60 mm
Gripping Force: 700 N
Payload: 15 kg
Self Weight: 2.3 kg
Communication Protocol: RS485/IO/CAN/CANFD

◆ 10 Parallel Three-Finger Gripper

I CTPM3F10 >Page17



Stroke: 10 mm
Gripping Force: 15 N
Payload: 0.5 kg
Self Weight: 0.9 kg
Communication Protocol: RS485/IO

Collaborative Gripper Series

◆ 90 Collaborative Two-Finger Gripper

I CTAG2F90 >Page19



Stroke: 90 mm
Gripping Force: 23 N
Payload: 0.7 kg
Self Weight: 0.7 kg
Communication Protocol: RS485/IO

◆ 90D Collaborative Two-Finger Gripper

I CTAG2F90-D >Page20



Stroke: 90 mm
Gripping Force: 25 N
Payload: 0.8 kg
Self Weight: 0.8 kg
Communication Protocol: RS485/IO/CAN/CANFD

◆ 120-D Collaborative Two-Finger Gripper

I CTAG2F120-D >Page21



Stroke: 120 mm
Gripping Force: 160 N
Payload: 4 kg
Self Weight: 1.5 kg
Communication Protocol: RS485/IO/CAN/CANFD

◆ 120S-D Collaborative Two-Finger Gripper

I CTAG2F120S-D >Page22



Stroke: 120 mm
Gripping Force: 60 N
Payload: 2 kg
Self Weight: 1.1 kg
Communication Protocol: RS485/IO/CAN/CANFD

◆ 85 Collaborative Two-Finger Gripper

I CTAG2F85 >Page23



Stroke: 85 mm
Gripping Force: 120 N
Payload: 3 kg
Self Weight: 0.7 kg
Communication Protocol: RS485

◆ Modular Two-Finger Gripper

I CTM2F110E >Page24



Stroke: 100 mm
Gripping Force: 25 N
Payload: 0.8 kg
Self Weight: 0.75 kg
Communication Protocol: RS485+IO

◆ Modular Three-Finger Gripper

I CTM3F123E >Page25



Stroke: 123 mm
Gripping Force: 40 N
Payload: 1.5 kg
Self Weight: 1.2 kg
Communication Protocol: RS485+IO

◆ 50F-D Collaborative Two-Finger Gripper

I CTPM2F50F-D >Page26



Stroke: 50 mm
Gripping Force: 60 N
Payload: 2 kg
Self Weight: 1.3 kg
Communication Protocol: RS485/IO

◆ 20 Parallel Three-Finger Gripper

I CTPM3F20 >Page27



Stroke: 20 mm
Gripping Force: 30 N
Payload: 1 kg
Self Weight: 1.2 kg
Communication Protocol: RS485/IO

◆ 20 Collaborative Two-Finger Gripper

I CTIM2F20 >Page28



Stroke: 20 mm
Gripping Force: 8 N
Payload: 0.3 kg
Self Weight: 0.45 kg
Communication Protocol: RS485/IO

Dexterous Hand Series

◆ Fuyi Bionic Two-Finger Hand I CTAG1F55 >Page30



Stroke: 55mm
Gripping Force: 16 N
Minimum Opening/Closing Time: 0.8s
Self-Weight: 0.38kg
Communication Protocol: RS485

◆ Jiuzhang Dexterous Three-Finger Hand I CTDH3F110 >Page32



Stroke: 110 mm
Gripping Force: 10N(per finger)
Grasping Load (Opposite Gripping Lifting): 6kg
Self-Weight: 1.2 kg
Communication Protocol: RS485

◆ X²-Dexterous Five-Finger Hand I CTDH5F80 >Page34



Active degrees of freedom: 11
Maximum single-finger tip force: 10N
Maximum whole-hand grip strength: 50N
Payload: 5kg
Communication Protocol: RS485

◆ Gripping Three-Finger Hand I CTMG3F60 >Page31



Stroke: 60 mm
Gripping Force: 50 N
Payload: 1.5 kg
Self Weight: 1.1 kg
Communication Protocol: RS485+IO

◆ Lingsi Dexterous Four-Finger Hand I CTDH4F08D >Page33



Stroke: 80 mm
Gripping Force: 6 N (per finger)
Payload: 2.5kg
Self-Weight: 0.7 kg
Communication Protocol: RS485

Heavy-Duty Hand Series

◆ Heavy-Duty Modular Three-Finger Hand I CTHM3F460 >Page36



Maximum Gripping Force: 100 N
Maximum Gripping Speed: 200 mm/s
Repeat Positioning Accuracy: ± 0.3 mm
Communication Protocol: RS485+IO

◆ Heavy-Duty Modular Six-Finger Hand I CTHM6F460 >Page37



Maximum Gripping Force: 100 N
Maximum Gripping Speed: 200 mm/s
Repeat Positioning Accuracy: ± 0.3 mm
Communication Protocol: RS485+IO

◆ Heavy-Duty Five-Finger Hand I CTHM5F530 >Page38



Single-finger maximum Gripping force: 150 N
Maximum load: 80 Kg
Maximum travel distance: 530 mm
Communication Protocol: Ethernet

◆ Bag Stacking Gripper I CTABG430 >Page39



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

◆ **Multi-Functional Sponge Suction Gripper**
I CTABX400 >Page40



Opening Stroke: 400 mm
Maximum Recommended Load: 60 kg
Self-Weight: 70 kg
Communication Protocol: IO

◆ **Luggage Gripper I CTBSM2F670.00** >Page42



Maximum Gripping Force: 1200 N
Self-Weight: 50 kg
Maximum Opening/Closing Speed of Gripper: 300mm/s
Communication Protocol: Ethernet

◆ **Direct Puncture Bag-Breaking Gripper**
I CTABG100 >Page41



Air Supply Pressure: 0.7 Mpa
Maximum Recommended Load: 60 kg
Self-Weight: 67 kg
Communication Protocol: IO

Data Acquisition Gripper

◆ **U-Hand I CTAG2F90-U** >Page44



Tactile Pressure Range: 0-160N
Core Sensors:
Vive Tracker 、 2K 2D Camera
Magnetic Encoder、 **Tactile Sensor**
Maximum Opening Width: 90mm
Weight: 600g

◆ **U-Hand I CTAG2F120S-K** >Page45



Tactile Pressure Range:
Vive Tracker 、 2K 2D Camera
Magnetic Encoder
Maximum Opening Width: 120mm
Weight: 980g

Electric Vacuum Actuator Series

◆ **Electric Suction Gripper**
I CTMSC1F50.00 >Page47



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

◆ **Electric Suction Gripper**
I CTMSC1F50.00A >Page48



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

◆ **Electric Suction Gripper**
I CTMSC1F50.00B >Page49



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

Drivers Series

◆ Pneumatic Active Driver I CTPAD-S >Page51



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, RS485

Humanoid Robot Series

◆ Humanoid Robots Series >Page53

Folded Height	650mm
Extended Height	1800mm
Arm Span Range	850mm
Vertical Working Range of Arm	0~2200mm
Total Weight	170kg
Body Degrees of Freedom	22Dof
Dexterous Hand	Optional
Joint Reducer	Harmonic Reducer
Joint Encoder	Dual Encoder
Perception Sensor	Structured Light Vision (Optional), RealSense Binocular Vision, 3D LiDAR



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

14S Parallel Two-finger Gripper Model : CTPM2F14S

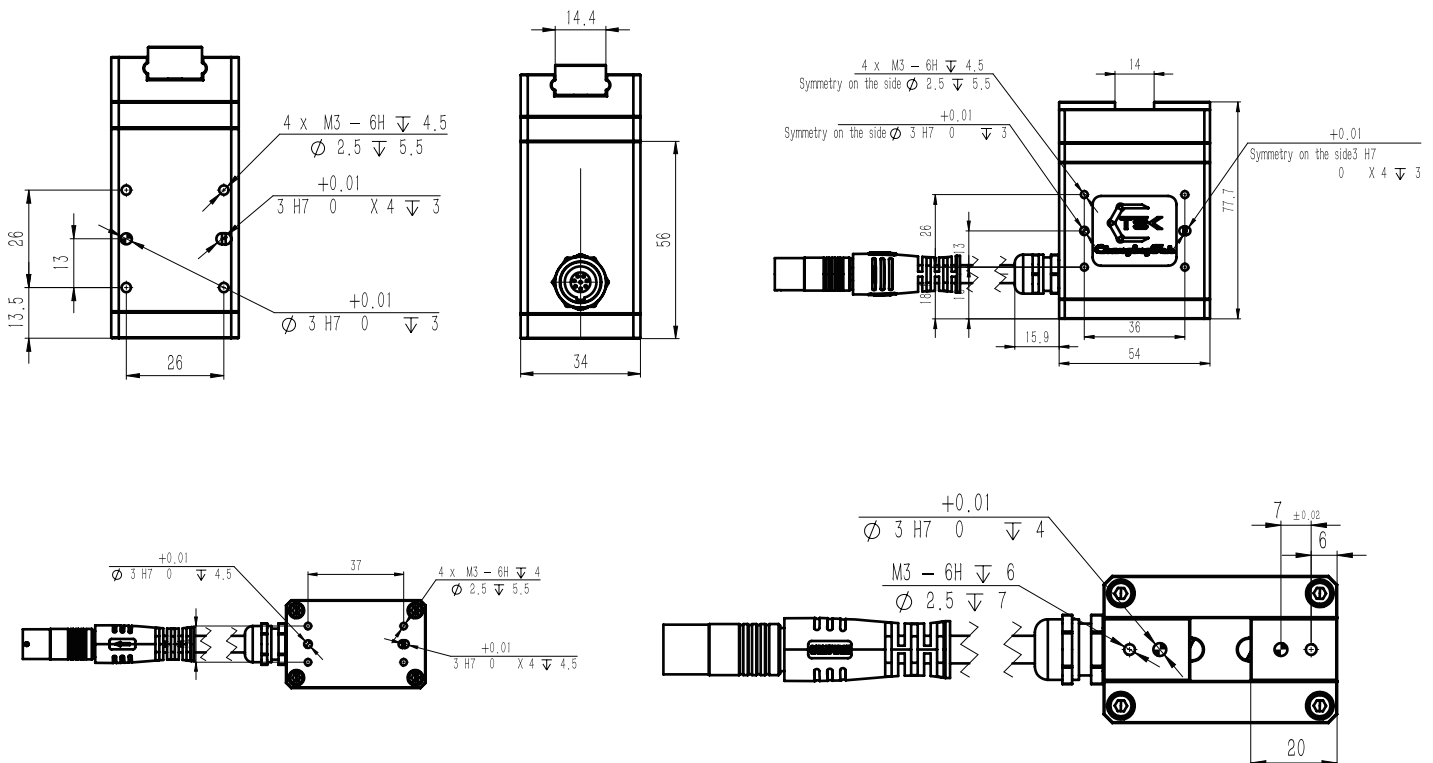


Name	14S Parallel Two-finger Gripper	Model	CTPM2F14S
Drive Method	Closed-Loop Stepper	Stroke	14mm
Gripping Force	8N	Payload	0.2kg
Maximum Gripping Speed	25mm/s	Maximum Current	1A
Working Voltage	24V	Repetitive Positioning Accuracy	±0.02mm
Minimum Opening/Closing Time	0.5s	Self-weight	0.4kg
Recommended Operating Environment	0~40°C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO		

INTEGRATED DRIVE & CONTROL, PRECISION CONTROL, LIGHTWEIGHT DESIGN, LONG SERVICE LIFE

NOTE: GRIPPER FINGERS ARE NOT INCLUDED

Product dimensions diagram

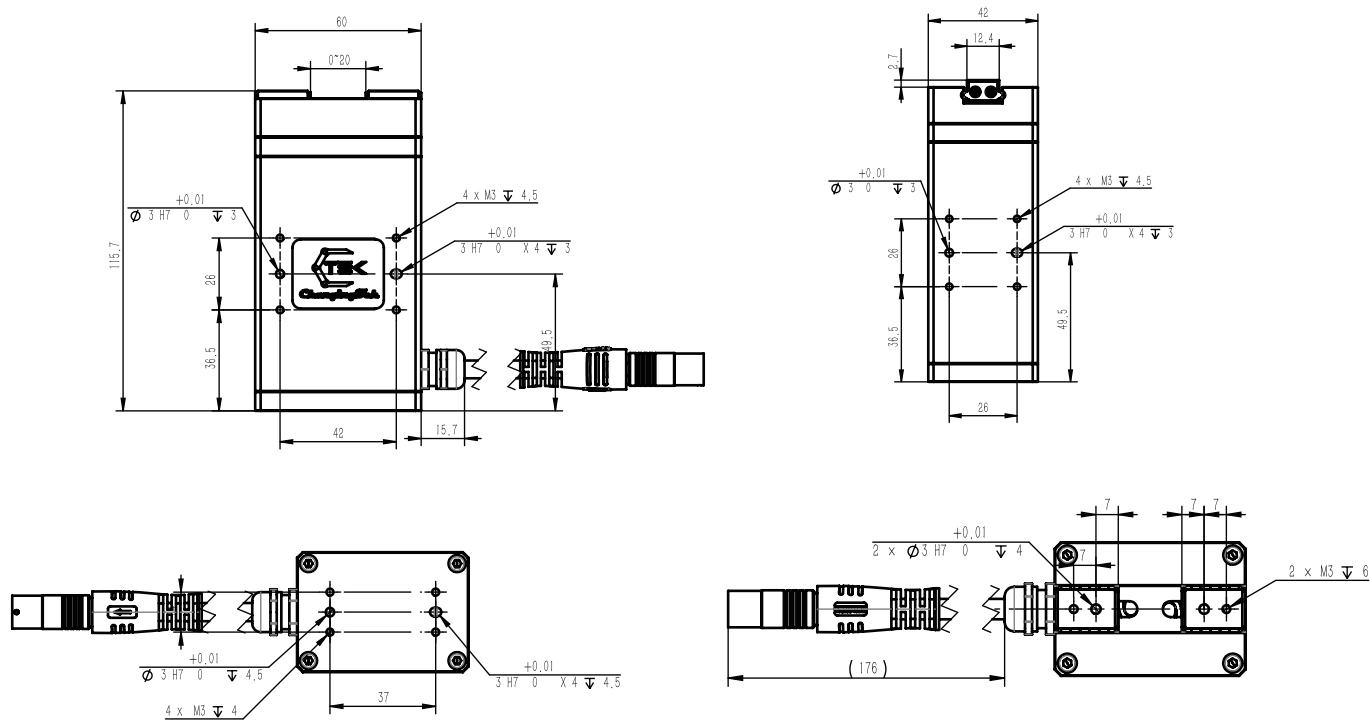


Page 10 of 10

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

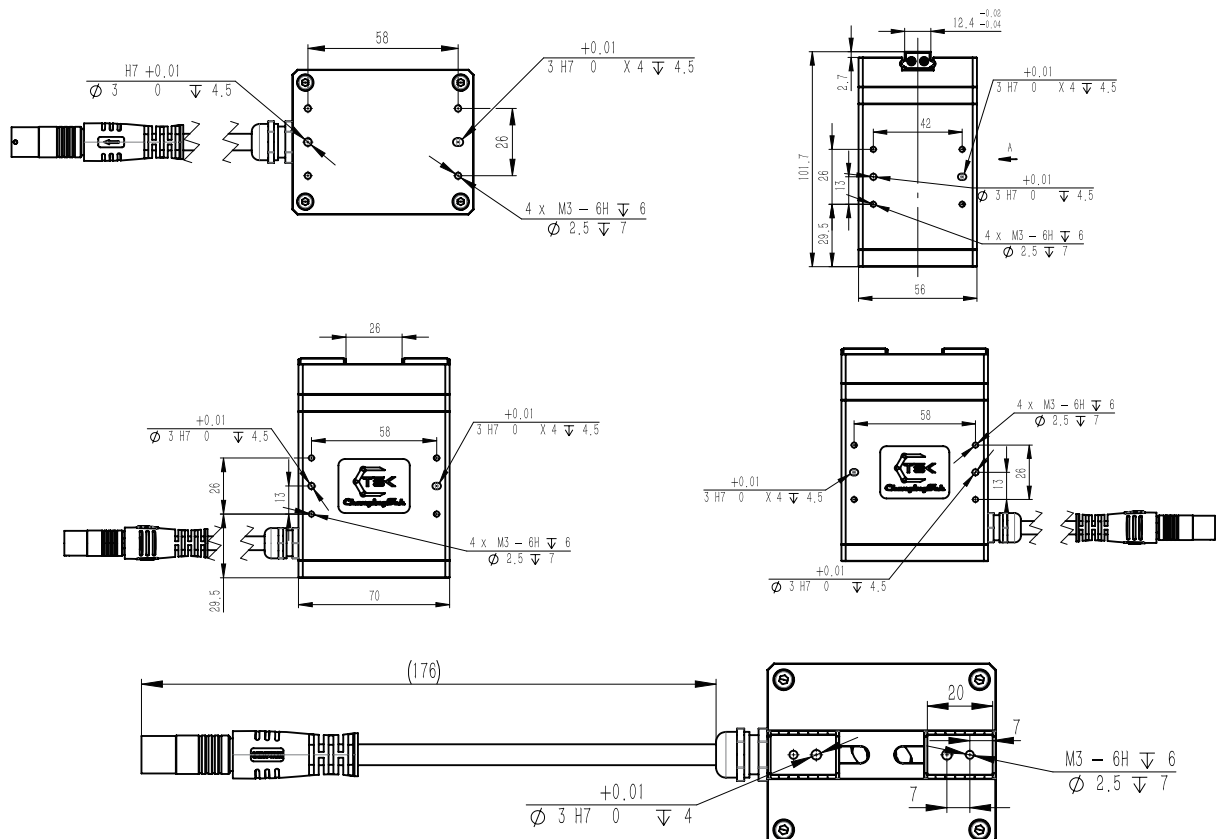


Name	26 Parallel Two-finger Gripper	Model	CTPM2F26
Drive Method	Closed-Loop Stepper	Stroke	26mm
Gripping Force	35N	Payload	1kg
Maximum Gripping Speed	60mm/s	Maximum Current	2A
Working Voltage	24V	Repetitive Positioning Accuracy	±0.02mm
Minimum Opening/Closing Time	0.5s	Self-weight	0.95kg
Recommended Operating Environment 0~40°C, below 85%RH (without condensation)			
Communication Protocol RS485/IO			

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

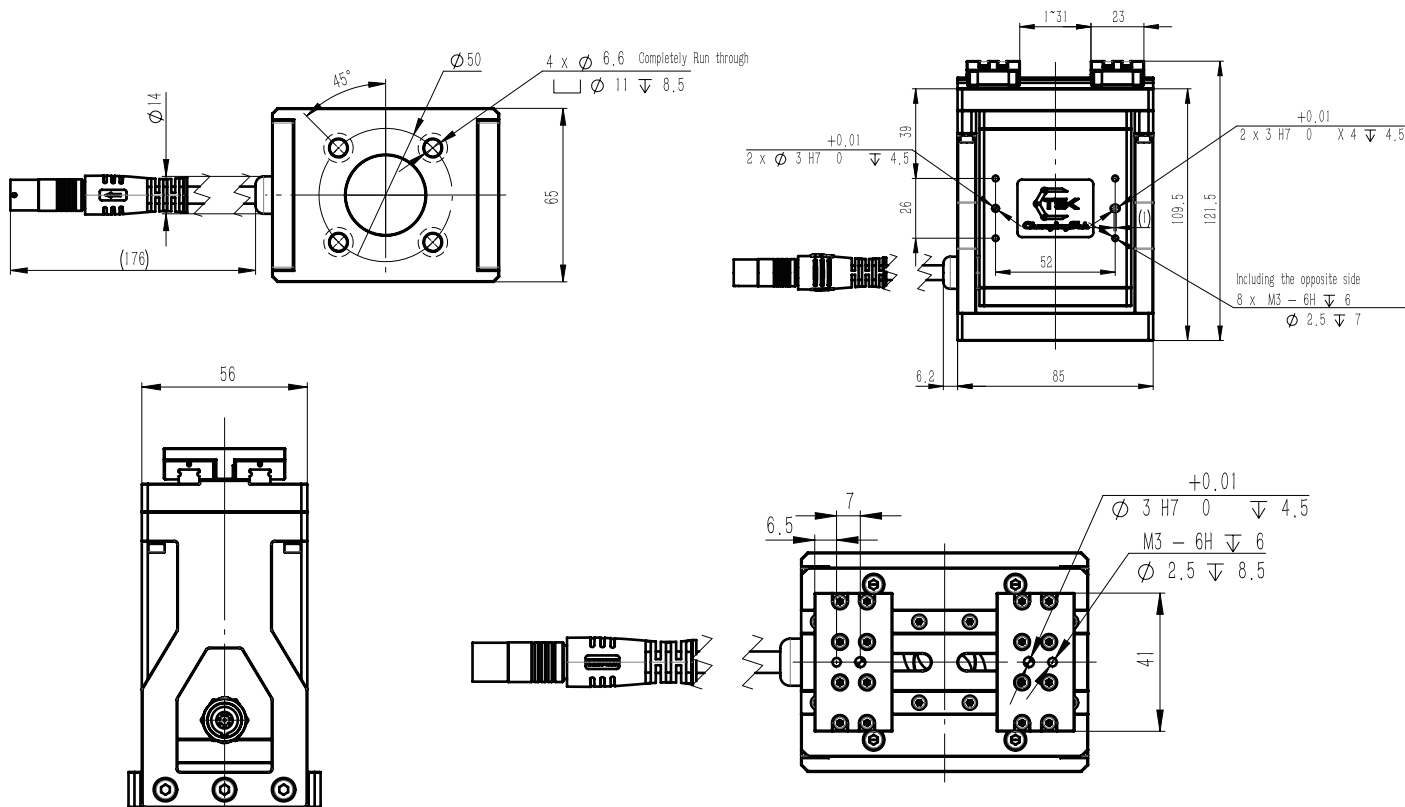


Name	30 Parallel Two-finger Gripper	Model	CTPM2F30
Drive Method	Closed-Loop Stepper	Stroke	30mm
Gripping Force	30N	Payload	1kg
Maximum Gripping Speed	60mm/s	Maximum Current	2A
Working Voltage	24V	Repetitive Positioning Accuracy	±0.02mm
Minimum Opening/Closing Time	0.5s	Self-weight	1.2kg
Recommended Operating Environment 0~40°C, below 85%RH (without condensation)			
Communication Protocol RS485/IO			

INTEGRATED DRIVE & CONTROL, PRECISION CONTROL, LIGHTWEIGHT DESIGN, LONG SERVICE LIFE

NOTE: GRIPPER FINGERS ARE NOT INCLUDED

Product dimensions diagram



Specification Parameters

40S-D Parallel Two-Finger Gripper Model : CTPM2F40S-D

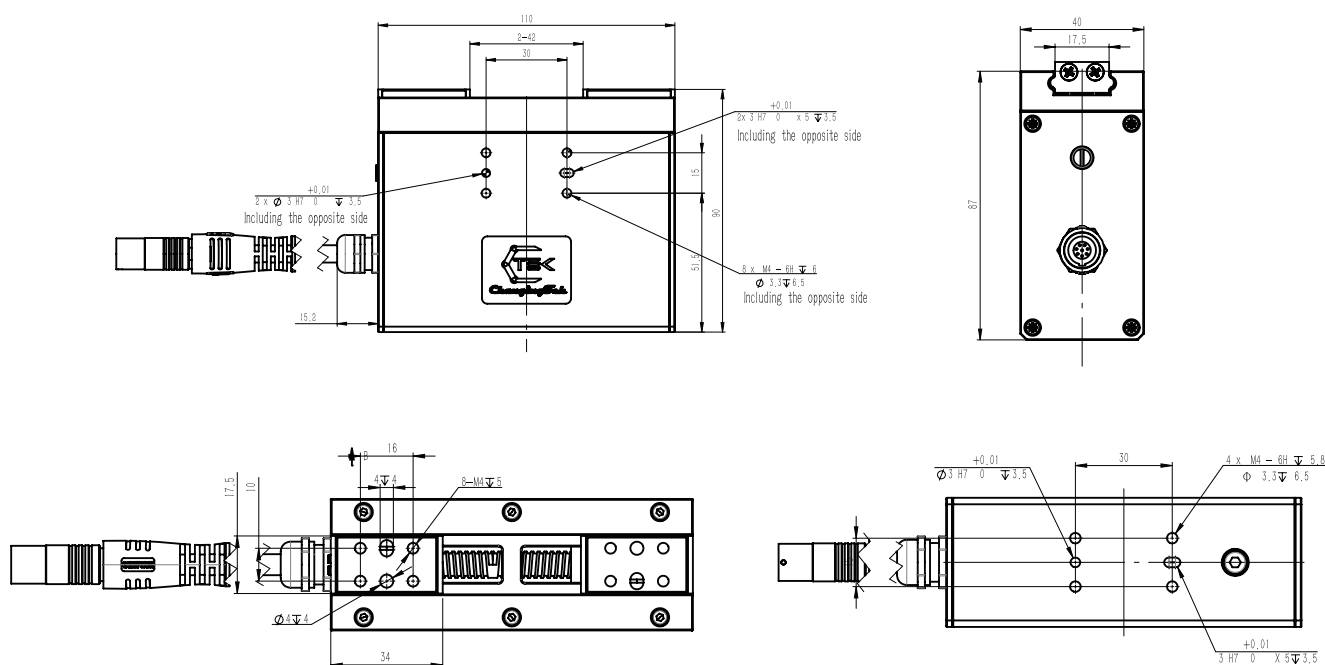


Name	40S Parallel Two-finger Gripper	Model	CTPM2F40S-D
Drive Method	Closed-Loop Stepper	Stroke	40mm
Gripping Force	350N	Payload	5kg
Maximum Gripping Speed	50mm/s	Maximum Current	1A
Working Voltage	24V	Repetitive Positioning Accuracy	±0.02mm
Minimum Opening/Closing Time	0.8s	Self-weight	1.2kg
Recommended Operating Environment	0~40°C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO/CAN/CANFD		

INTEGRATED DRIVE & CONTROL, PRECISION CONTROL, LIGHTWEIGHT DESIGN, LONG SERVICE LIFE

NOTE: GRIPPER FINGERS ARE NOT INCLUDED

Product dimensions diagram



Specification Parameters

60S-D Parallel Two-Finger Gripper Model : CTPM2F60S-D

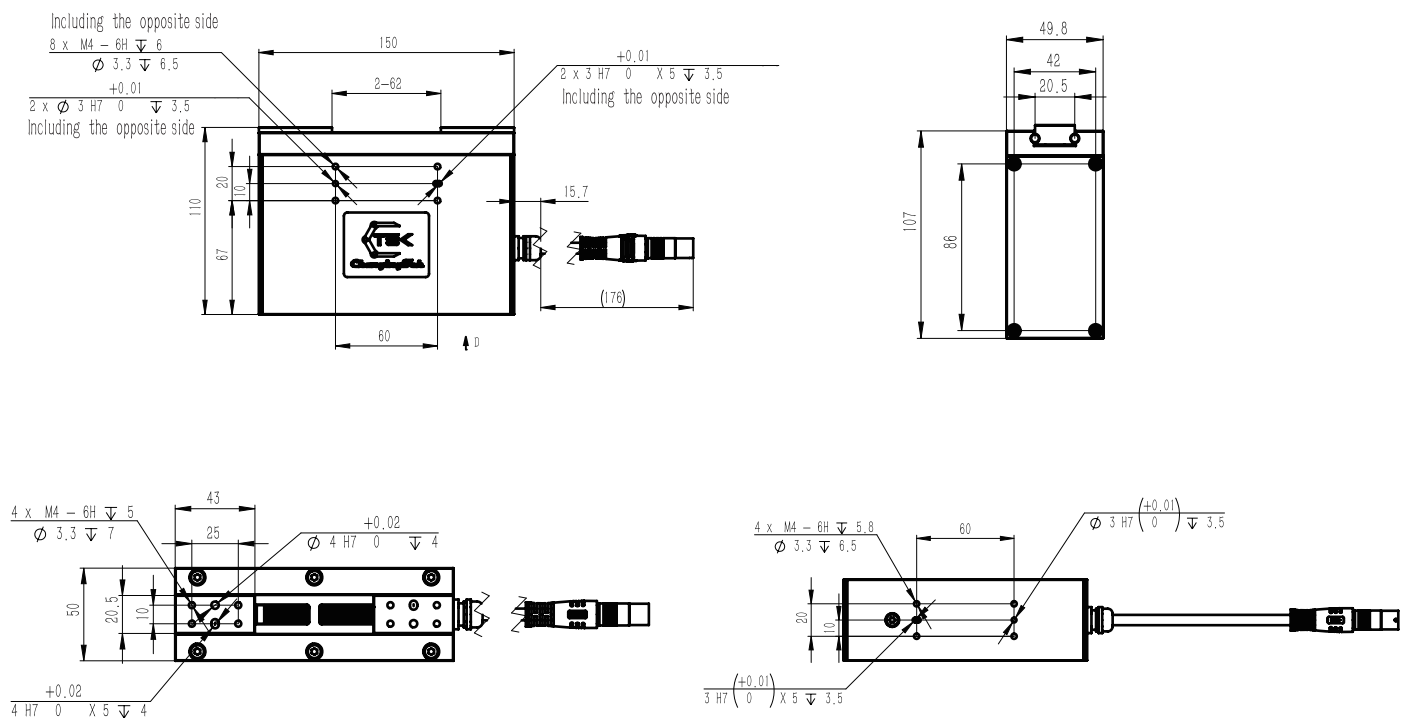


Name	60S-D Parallel Two-finger Gripper	Model	CTPM2F60S-D
Drive Method	Closed-Loop Stepper	Stroke	60mm
Gripping Force	700N	Payload	15kg
Maximum Gripping Speed	50mm/s	Maximum Current	1A
Working Voltage	24V	Repetitive Positioning Accuracy	±0.02mm
Minimum Opening/Closing Time	1.2s	Self-weight	2.3kg
Recommended Operating Environment	0~40℃, below 85%RH (without condensation)		
Communication Protocol	RS485/IO/CAN/CANFD		

INTEGRATED DRIVE & CONTROL, PRECISION CONTROL, LIGHTWEIGHT DESIGN, LONG SERVICE LIFE

NOTE: GRIPPER FINGERS ARE NOT INCLUDED

Product dimensions diagram



Specification Parameters

60L-D Parallel Two-Finger Gripper Model : CTPM2F60L-D

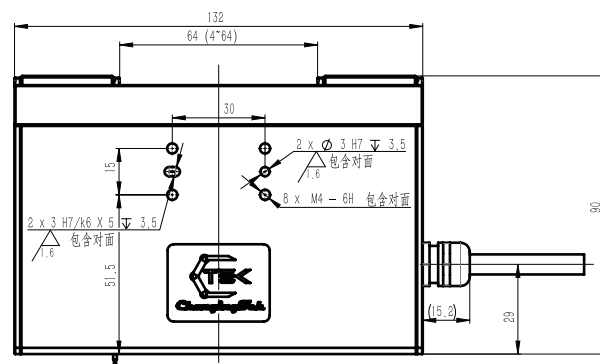
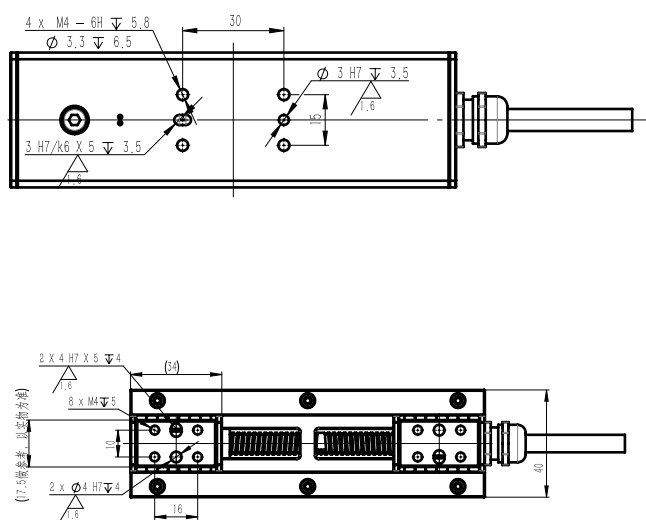


Name	60L-D Parallel Two-finger Gripper	Model	CTPM2F60L-D
Drive Method	Servo stepper motor	Stroke	60mm
Gripping Force	200N	Payload	5kg
Maximum Gripping Speed	80mm/s	Maximum Current	1A
Working Voltage	24V	Repetitive Positioning Accuracy	±0.02mm
Minimum Opening/Closing Time	0.8s	Self-weight	1.4kg
Recommended Operating Environment	0~40°C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO/CAN/CANFD		

INTEGRATED DRIVE & CONTROL, PRECISION CONTROL, LIGHTWEIGHT DESIGN, LONG SERVICE LIFE

NOTE: GRIPPER FINGERS ARE NOT INCLUDED

Product dimensions diagram



Specification Parameters

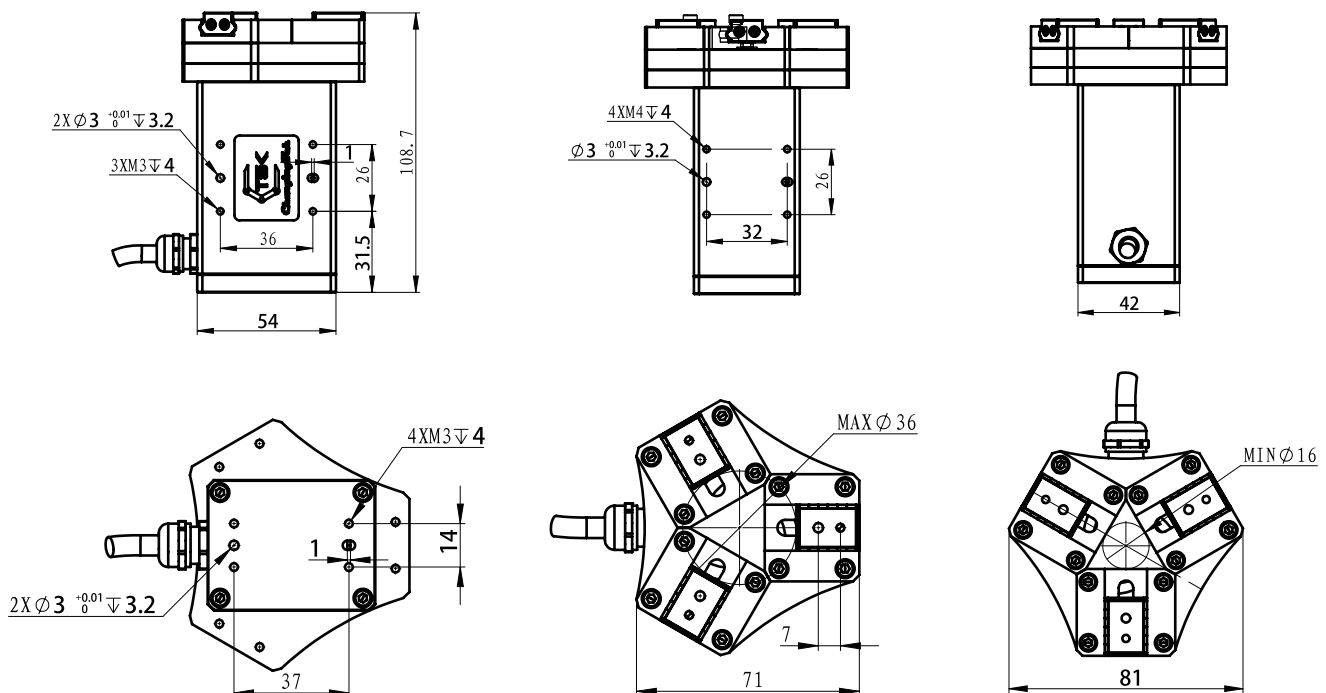
10 Parallel Three-Finger Gripper Model : CTPM3F10



Name	10 Parallel Three-Finger Gripper	Model	CTPM3F10
Drive Method	Closed-Loop Stepper	Stroke	10mm
Gripping Force	15N	Payload	0.5kg
Maximum Gripping Speed	30mm/s	Maximum Current	2A
Working Voltage	24V	Repetitive Positioning Accuracy	±0.02mm
Minimum Opening/Closing Time	0.4s	Self-weight	0.9kg
Recommended Operating Environment	0~40°C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO		

INTEGRATED DRIVE & CONTROL, PRECISION CONTROL, LIGHTWEIGHT DESIGN, LONG SERVICE LIFE

NOTE: GRIPPER FINGERS ARE NOT INCLUDED



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



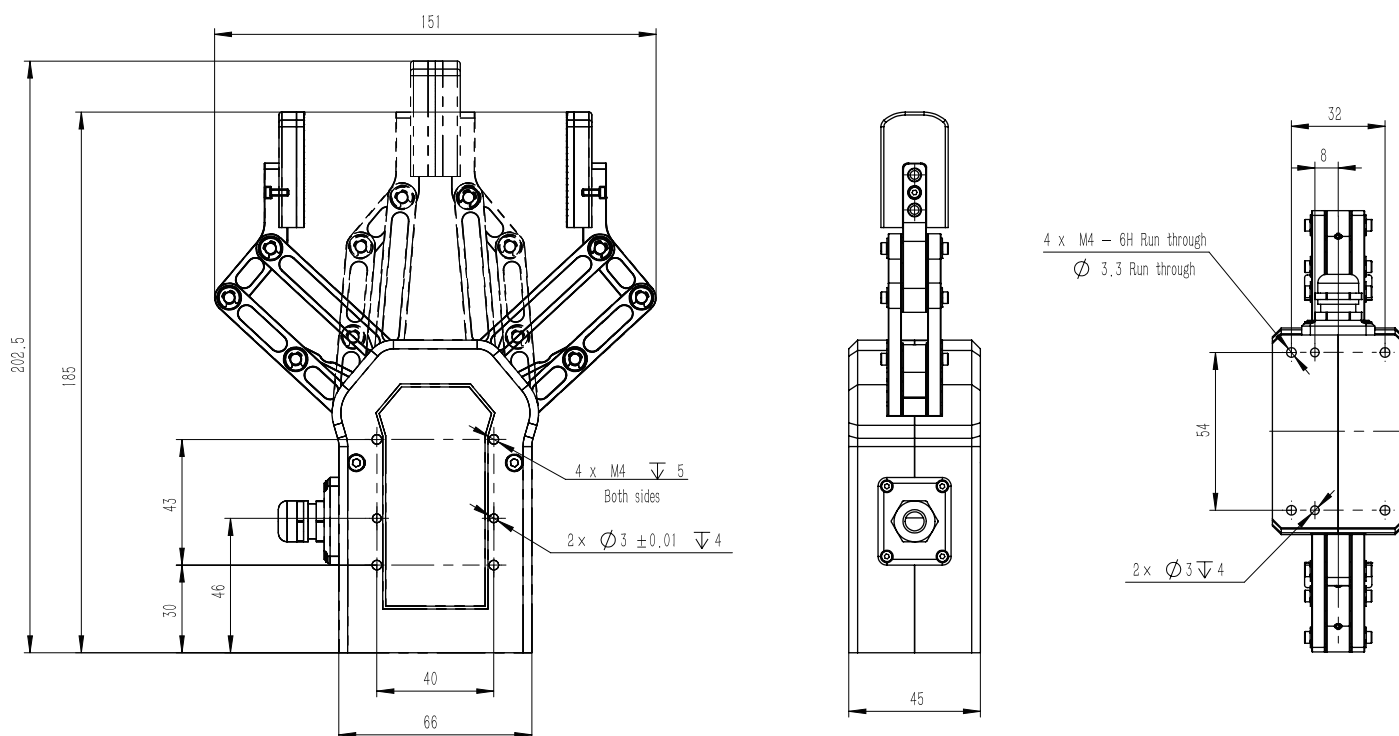
Name	90 Collaborative Two-Finger Gripper	Model	CTAG2F90
Drive Mode	Closed-loop Stepper	Maximum Stroke	90 mm
Gripping Force	23N	Payload	0.7kg
Grasping Speed	65 mm/s	Maximum Current	2A
Working Voltage	24 V	Self-weight	0.7 kg
Minimum Opening/Closing Time	1.4s	Repeat Positioning Accuracy	±0.03 mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



Specification Parameters

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



Name	90-D Collaborative Two-Finger Gripper	Model	CTAG2F90-D
Drive Mode	Step-servo motor	Maximum Stroke	90 mm
Gripping Force	25N	Payload	0.8kg
Grasping Speed	250mm/s	Maximum Current	1A
Working Voltage	24 V	Self-weight	0.8 kg
Minimum Opening/Closing Time	0.4s	Repeat Positioning Accuracy	±0.03 mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO/CAN/CANFD		

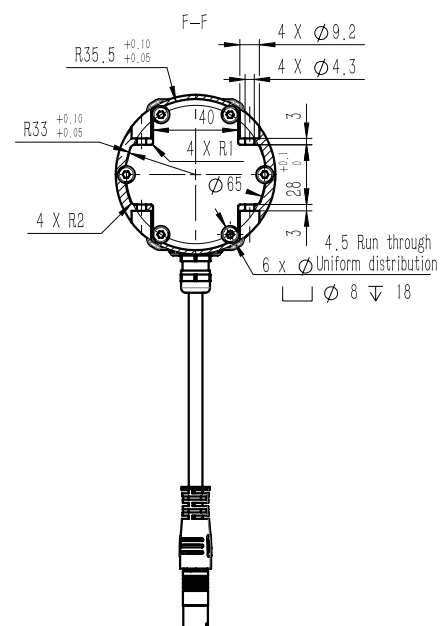
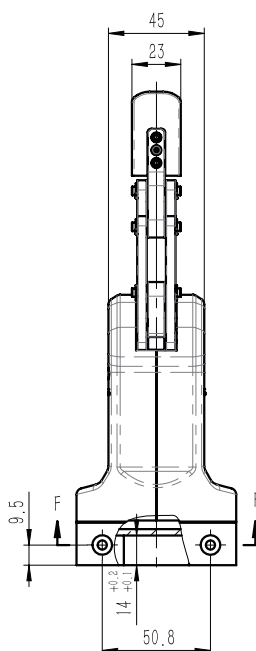
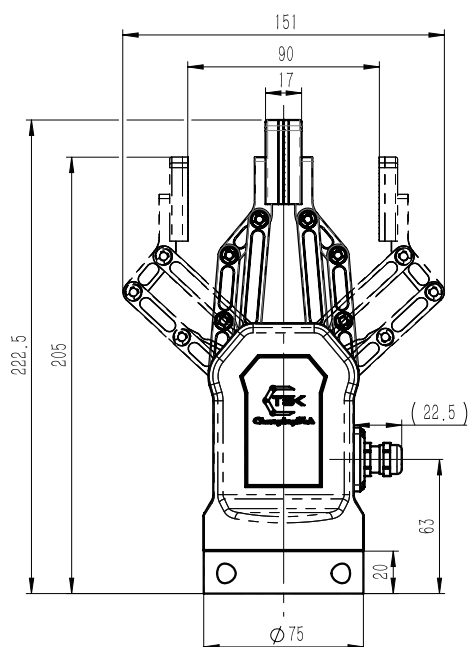
INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

****High-Speed Mode**

Product dimensions diagram



Specification Parameters

120-D Collaborative Two-Finger Gripper Model : CTAG2F120-D



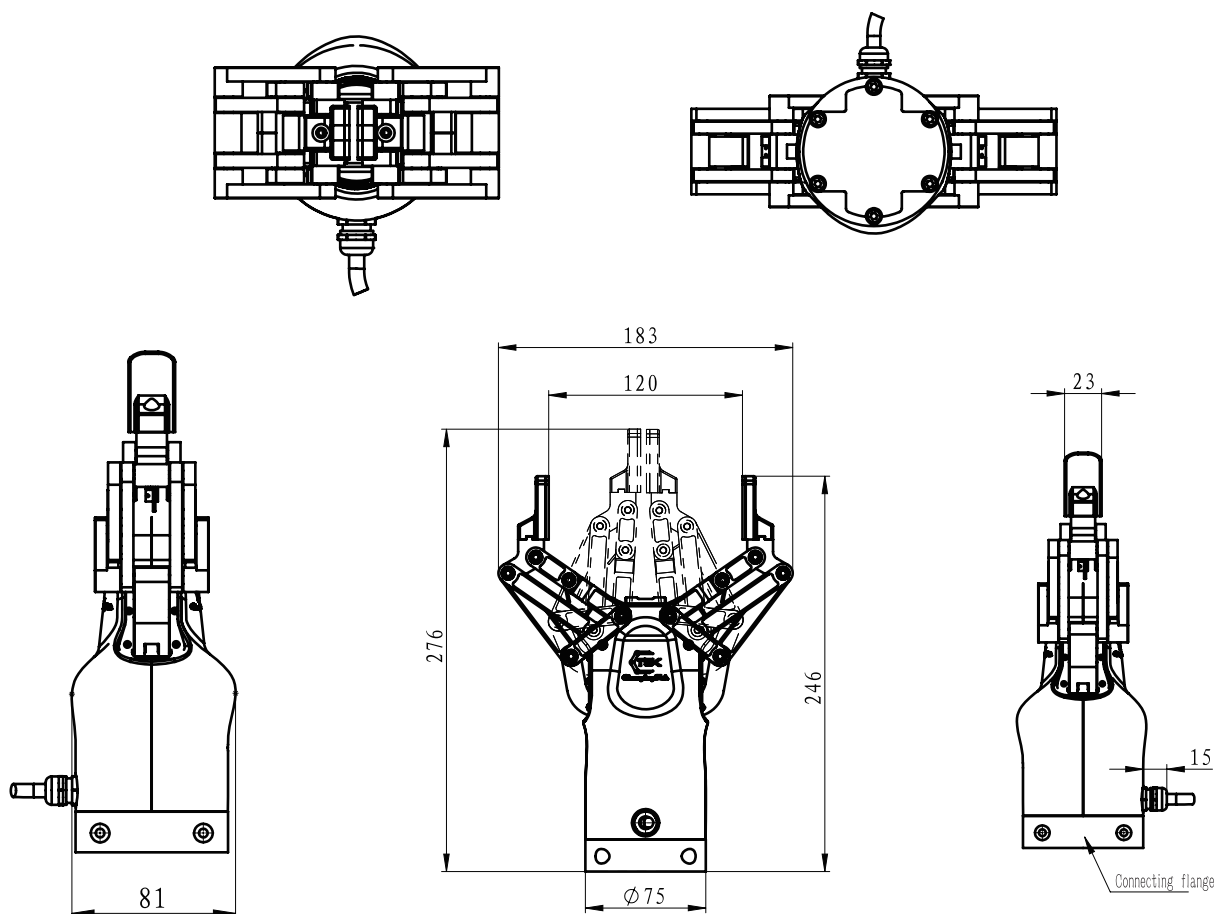
Name	120-D Collaborative Two-Finger Gripper	Model	CTAG2F120-D
Drive Mode	Step-servo motor	Maximum Stroke	120 mm
Gripping Force	160 N	Payload	4 kg
Grasping Speed	150 mm/s	Maximum Current	1A
Working Voltage	24 V	Self-weight	1.5 kg
Minimum Opening/Closing Time	0.8 s	Repeat Positioning Accuracy	±0.03mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO/CAN/CANFD		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



Specification Parameters

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



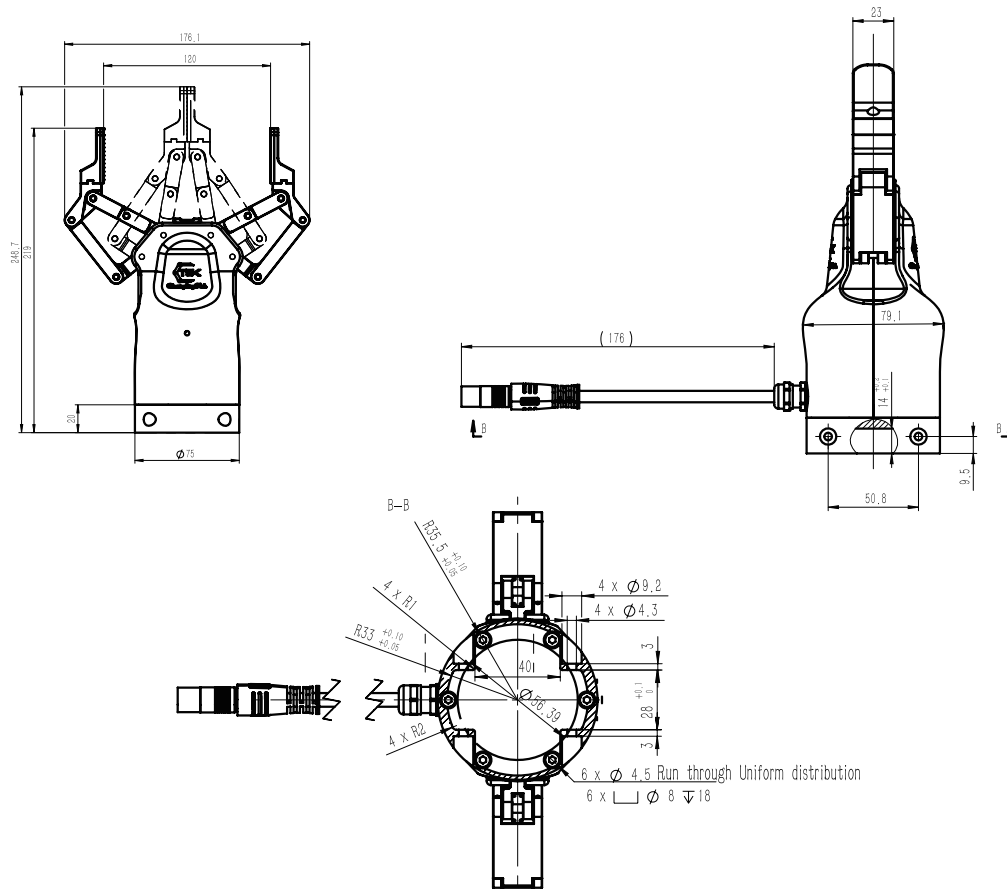
Name	120S-D Collaborative Two-Finger Gripper	Model	CTAG2F120S-D
Drive Mode	Step-servo motor	Maximum Stroke	120 mm
Gripping Force	60 N	Payload	2 kg
Grasping Speed	200 mm/s	Maximum Current	1 A
Working Voltage	24 V	Self-weight	1.1 kg
Minimum Opening/Closing Time	0.6 s	Repeat Positioning Accuracy	± 0.03 mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO/CAN/CANFD		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



Specification Parameters

85 Collaborative Two-Finger Gripper Model : CTAG2F85



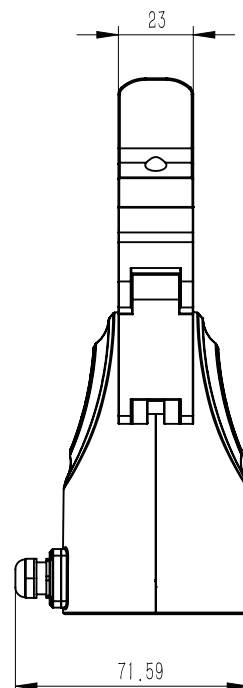
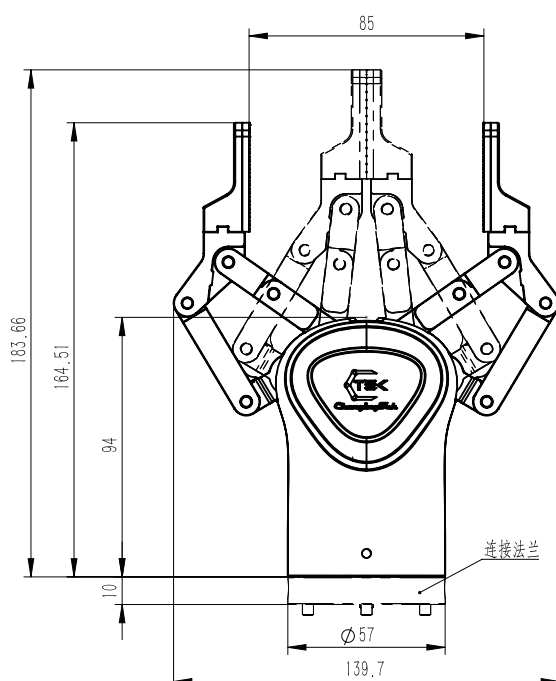
Name	85 Collaborative Two-Finger Gripper	Model	CTAG2F85
Drive Mode	BLDC	Maximum Stroke	85 mm
Gripping Force	120 N	Payload	3 kg
Grasping Speed	70 mm/s	Maximum Current	3 A
Working Voltage	24 V	Self-weight	0.7 kg
Minimum Opening/Closing Time	1.2 s	Repeat Positioning Accuracy	±0.03 mm
Driver External	NO	IP	IP54
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



Specification Parameters

Modular Two-Finger Gripper Model : CTM2F110E



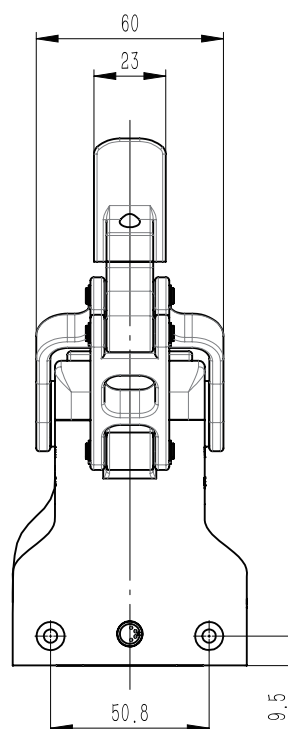
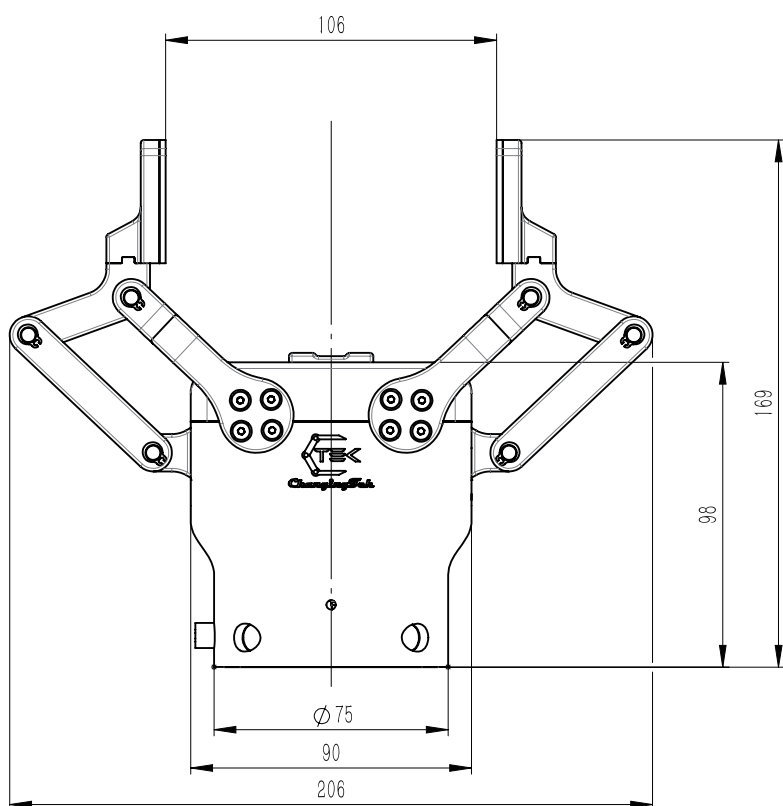
Name	110E Modular Two-Finger Gripper	Model	CTM2F110E
Drive Mode	Servo Drive	Maximum Stroke	100mm
Gripping Force	25N	Payload	0.8kg
Grasping Speed	87mm/s	Maximum Current	1A
Working Voltage	24 V	Self-weight	0.75kg
Minimum Opening/Closing Time	1.2s	Repeat Positioning Accuracy	±0.03 mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485+IO		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



Specification Parameters

Modular Three-Finger Gripper Model : CTM3F123E



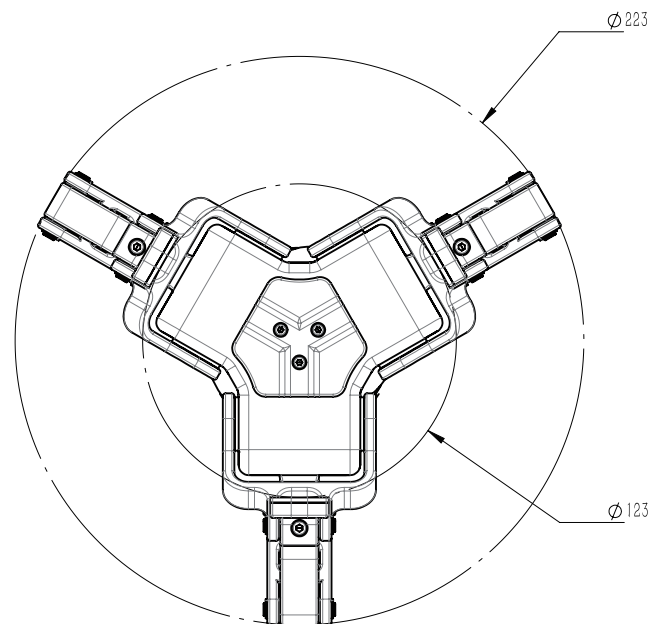
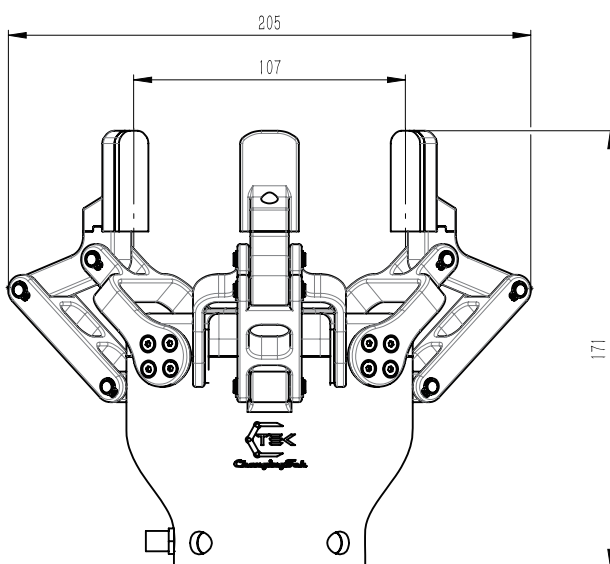
Name	123E Modular Three-Finger Gripper	Model	CTM3F123E
Drive Mode	Step-servo motor	Maximum Stroke	123mm
Gripping Force	40N	Payload	1.5kg
Grasping Speed	150mm/s	Maximum Current	3A
Working Voltage	24 V	Self-weight	1.2kg
Minimum Opening/Closing Time	0.9s	Repeat Positioning Accuracy	±0.03 mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485+IO		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



Specification Parameters

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



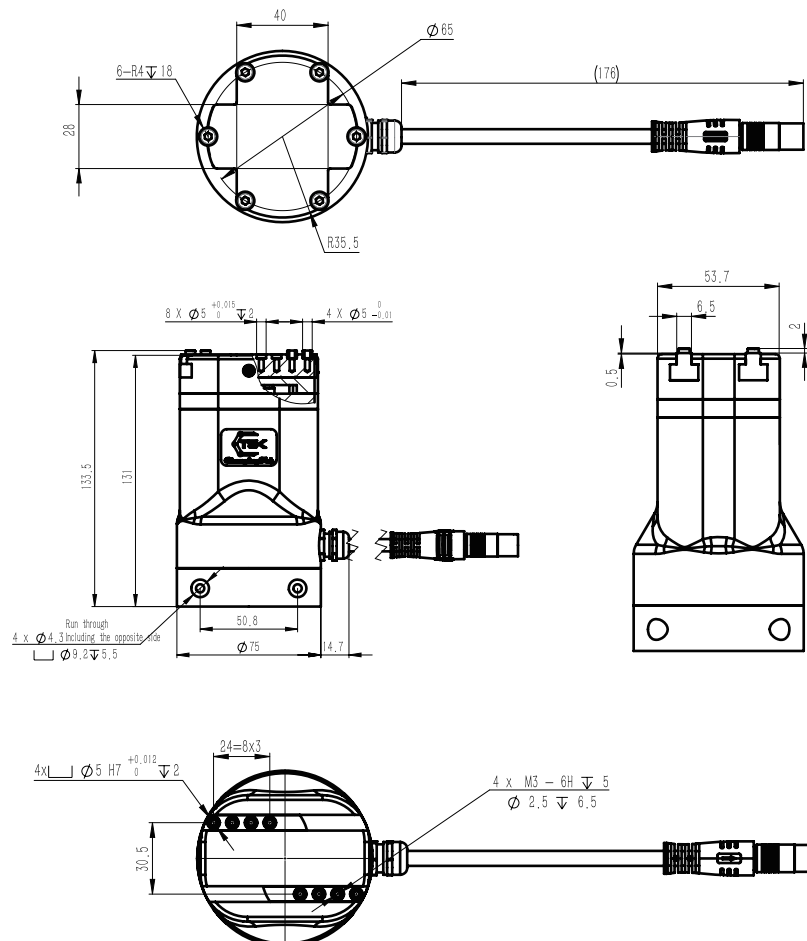
Name	50F-D Collaborative Two-Finger Gripper	Model	CTPM2F50F-D
Drive Mode	Step-servo motor	Maximum Stroke	50mm
Gripping Force	60N	Payload	2kg
Grasping Speed	150 mm/s	Maximum Current	1A
Working Voltage	24 V	Self-weight	1.3kg
Minimum Opening/Closing Time	0.4s	Repeat Positioning Accuracy	±0.02 mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO/CAN/CANFD		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



Specification Parameters

20 Parallel Three-Finger Gripper Model : CTPM3F20



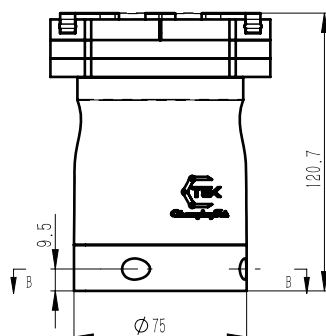
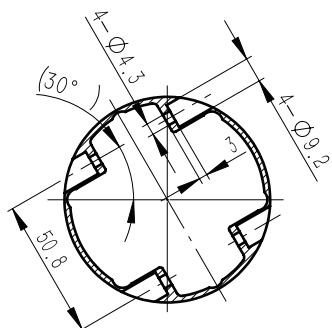
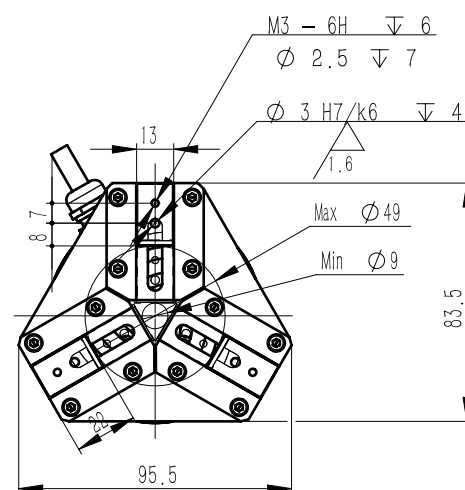
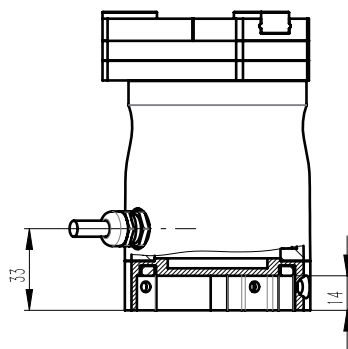
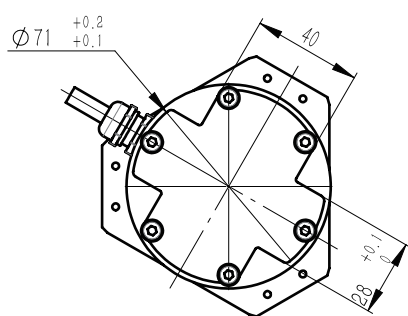
Name	20 Parallel Three-Finger Gripper	Model	CTPM3F20
Drive Mode	Closed-loop Stepper	Maximum Stroke	20mm
Gripping Force	30N	Payload	1kg
Grasping Speed	40mm/s	Maximum Current	2A
Working Voltage	24V	Self-weight	1.2kg
Minimum Opening/Closing Time	0.5s	Repeat Positioning Accuracy	±0.02mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



Specification Parameters

20 Collaborative Two-Finger Gripper Model: CTIM2F20



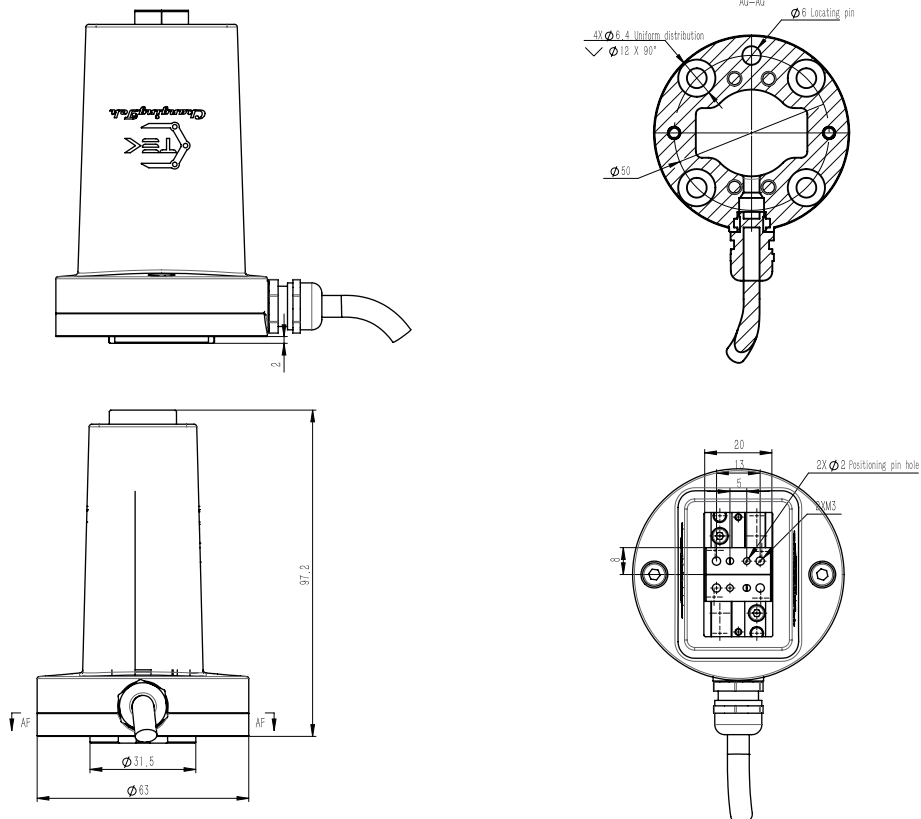
Name	20 Collaborative Two-Finger Gripper	Model	CTIM2F20
Drive Mode	Closed-loop Stepper	Maximum Stroke	20mm
Gripping Force	8N	Payload	0.3kg
Grasping Speed	40mm/s	Maximum Current	2A
Working Voltage	24 V	Self-weight	0.45kg
Minimum Opening/Closing Time	0.5s	Repeat Positioning Accuracy	±0.02mm
Driver External	NO	IP	IP40
Recommended Operating Environment	0~40° C, below 85%RH (without condensation)		
Communication Protocol	RS485/IO		

INTEGRATED DRIVE AND CONTROL

PRECISION CONTROL

ULTRA-THIN DESIGN

Product dimensions diagram



DEXTEROUS HAND 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

Fuyi Bionic Two-Finger Hand Model : CTAG1F55



Model	CTAG1F55	Maximum travel distance	55 mm
Drive Method	Motor-driven	Position control accuracy	0.1 mm
Maximum Gripping Force	16 N	Maximum Current	1.5 A
Maximum Gripping Speed	150 mm/s	Repetitive Positioning Accuracy	±0.03 mm
Working Voltage	24 V		
Self-weight	0.38 kg		
Opening/Closing Time	0.8 s		
Recommended Operating Environment	0~40 ° C, below 85%RH (without condensation)		
Communication Protocol	RS485		

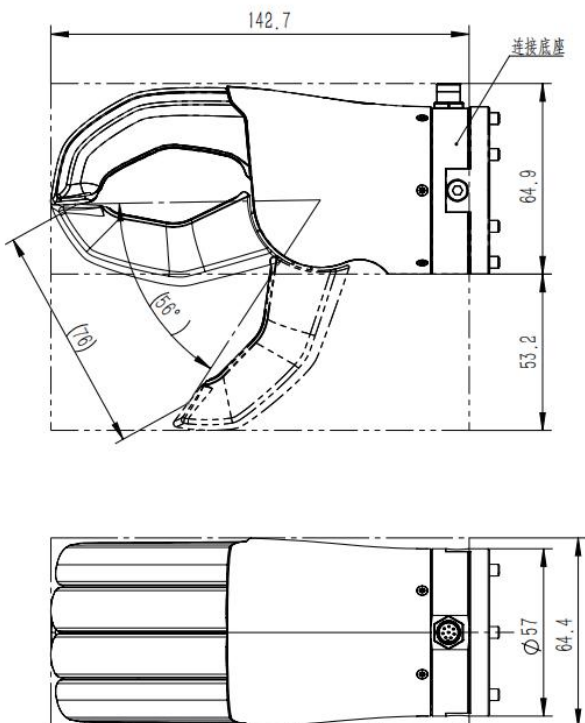
Strong grip strength

Precise control

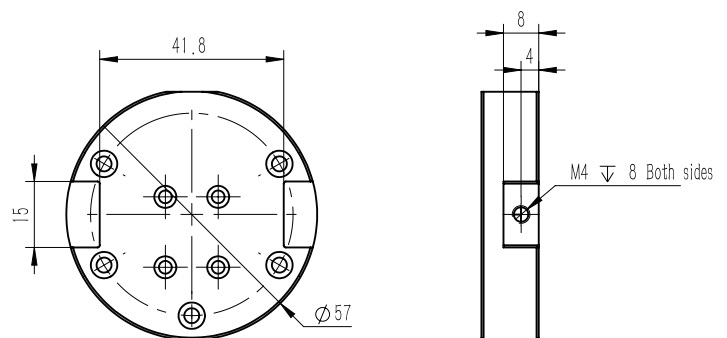
Long lifespan

Low maintenance

Product dimensions diagram



Mounting Dimensions of the Connection Base



Specification Parameters

Gripping Three-Finger Hand Model : CTMG3F60



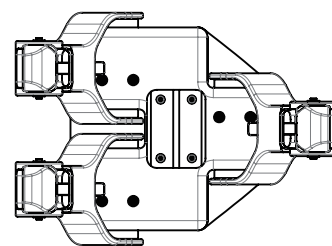
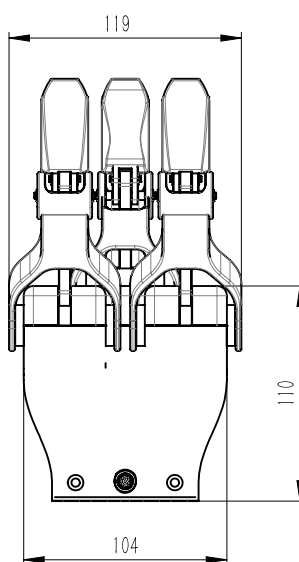
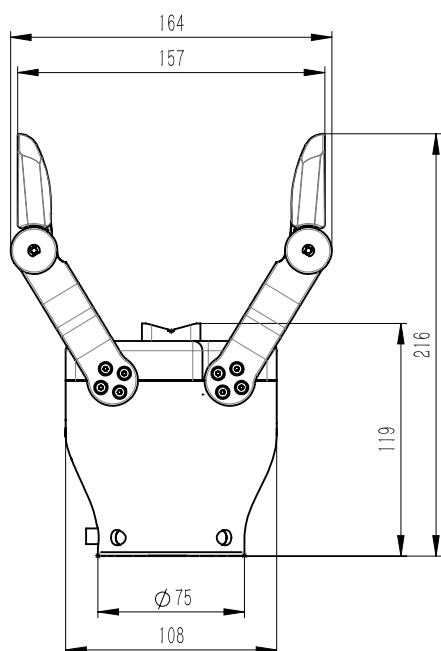
Model	CTMG3F60	Stroke	60 mm
Drive Method	Motor-driven	Maximum Gripping Force	50 N
Maximum recommended load	1.5 kg	Maximum Current	4.5 A
Maximum Gripping Speed	100 mm/s	Working Voltage	24 V
Repetitive Positioning Accuracy	± 0.03 mm		
Opening/Closing Time	0.6s		
Self-weight	1.1 kg		
Recommended Operating Environment	0~40 ° C, below 85%RH (without condensation)		
Communication Protocol	RS485+IO		

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	1.2 kg
Maximum Gripping Force	10 N(Single finger)	Maximum Current	5 A
Maximum Gripping Speed	140 ° /s	Repetitive Positioning Accuracy	±0.02 mm
Stable grasping & lifting	4 kg	Working Voltage	24 V
Grasping Load (Opposing Finger Pinch Lifting)		6 kg	
Envelope Load (Envelope Lifting)		2 kg	
Recommended Operating Environment		0~35 ° C, below 85%RH (without condensation)	
Communication Protocol		RS485	

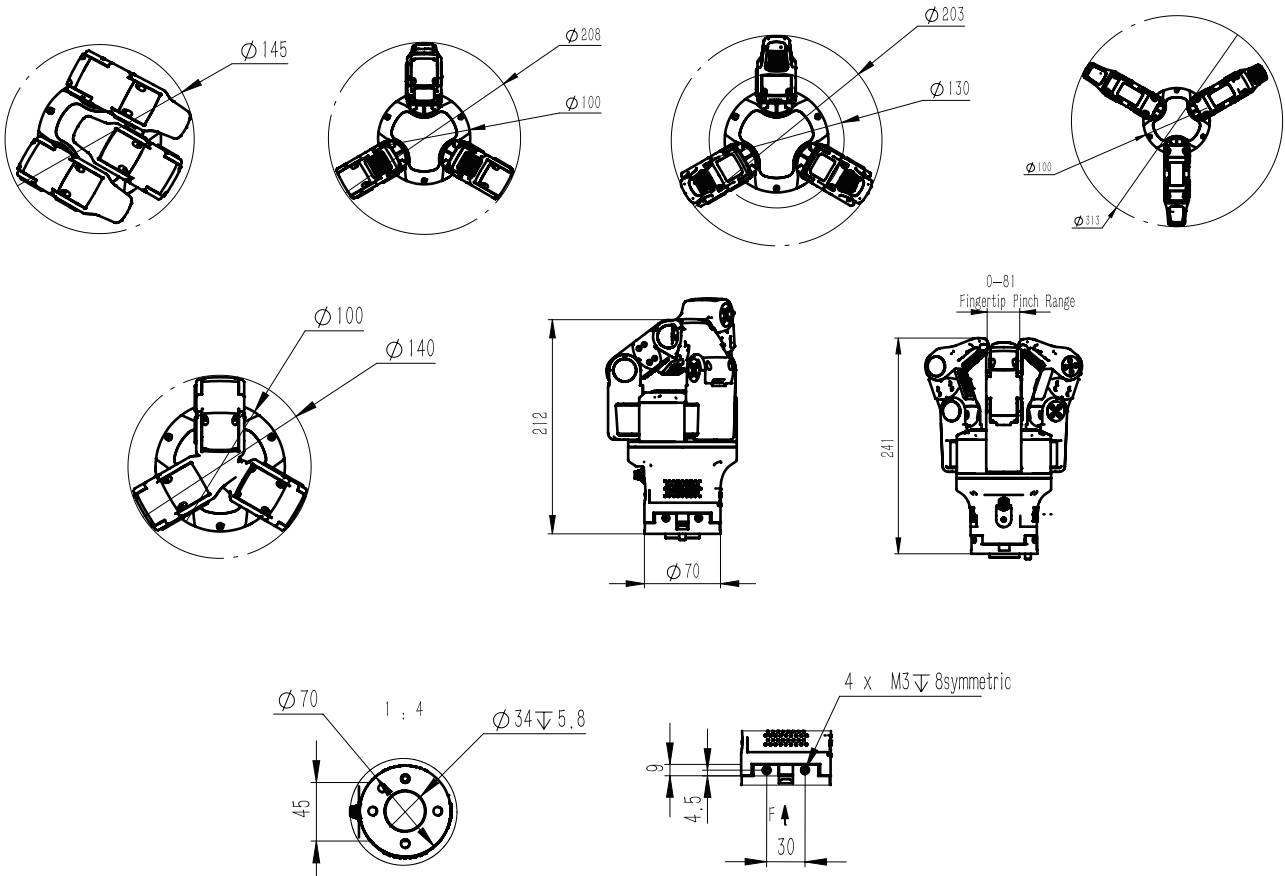
Strong grip strength

Precise control

Long lifespan

Low maintenance

Product dimensions diagram



Specification Parameters

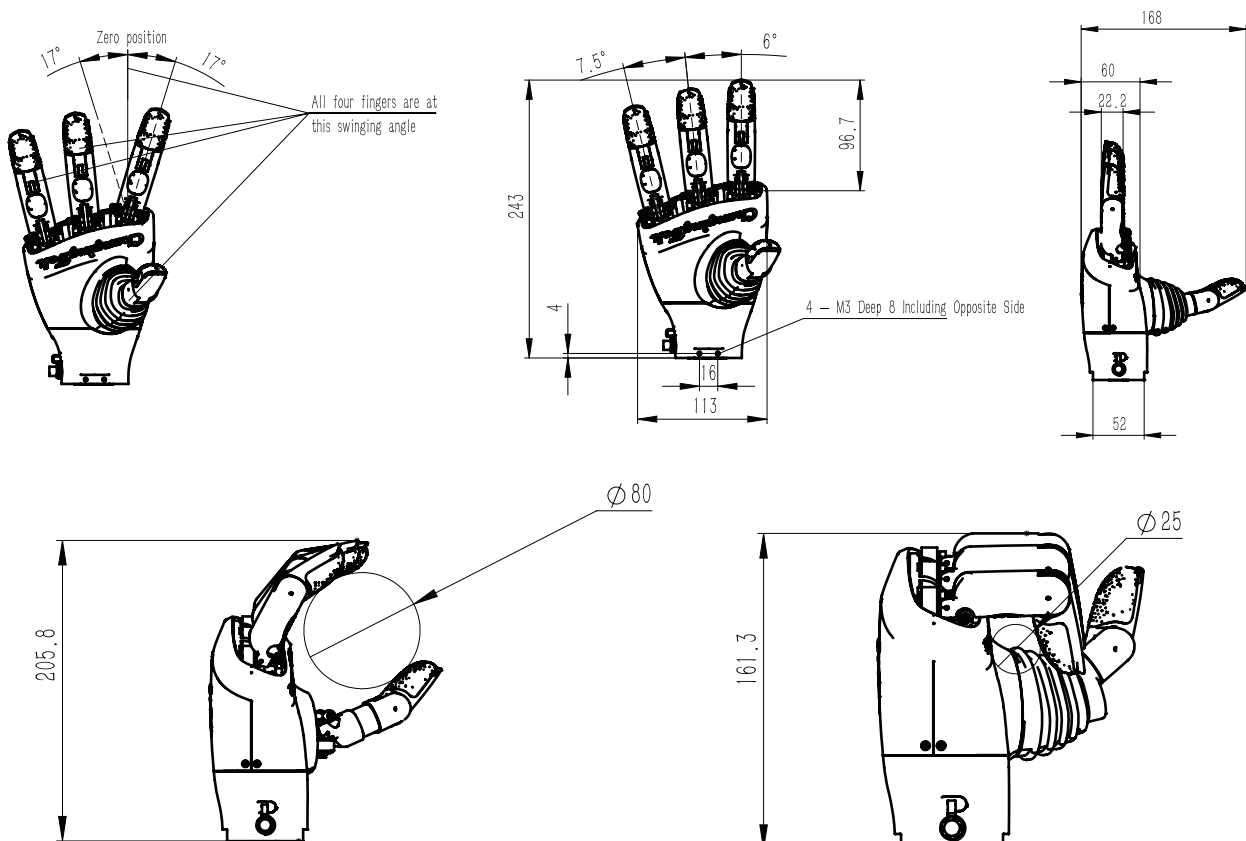
Lingsi Dexterous Four-Finger Hand Model : CTDH4F08D



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	RS485		

Integrated drive and control Precise control Long lifespan Low maintenance

Product dimensions diagram



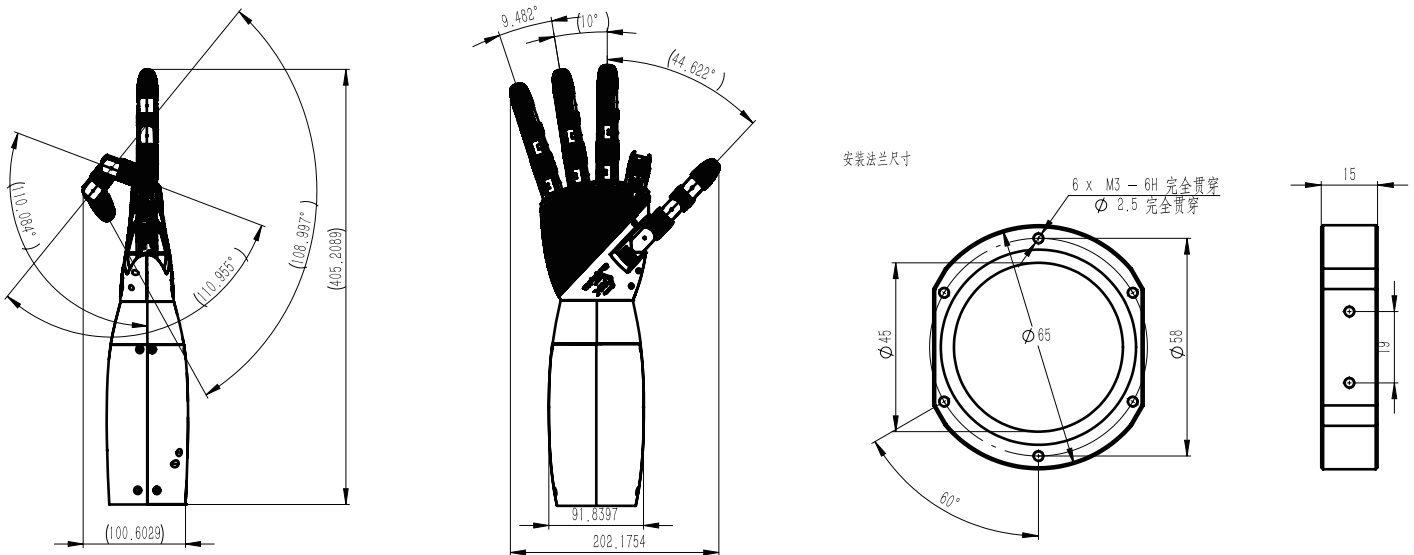
Specification Parameters

X²-Dexterous Five-Finger Hand Model:CTDH5F80



Model	CTDH5F80	Number of Joints	16
Active DOF	11	Maximum Whole-Hand Grip Strength	50N
Maximum Payload	5kg	Force Control Accuracy	±0.1N
Joint Motion Speed	230° /s	Thumb Rotation Range	≥90°
Self Weight	0.7kg	Operating Voltage	DC24V
Operating Current	2A	Configuration Switching Time	0.4s
Maximum Single-Finger Fingertip Force 10N			
Five-Finger Working Space	Bidirectional Rotation (Palm / Dorsum of Hand))		
Communication Protocol	RS485		
INTEGRATED DRIVE & CONTROL		MODULAR DESIGN	INDEPENDENT CONTROL

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.....

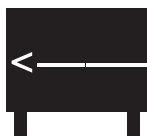
◆ Safe and Reliable

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

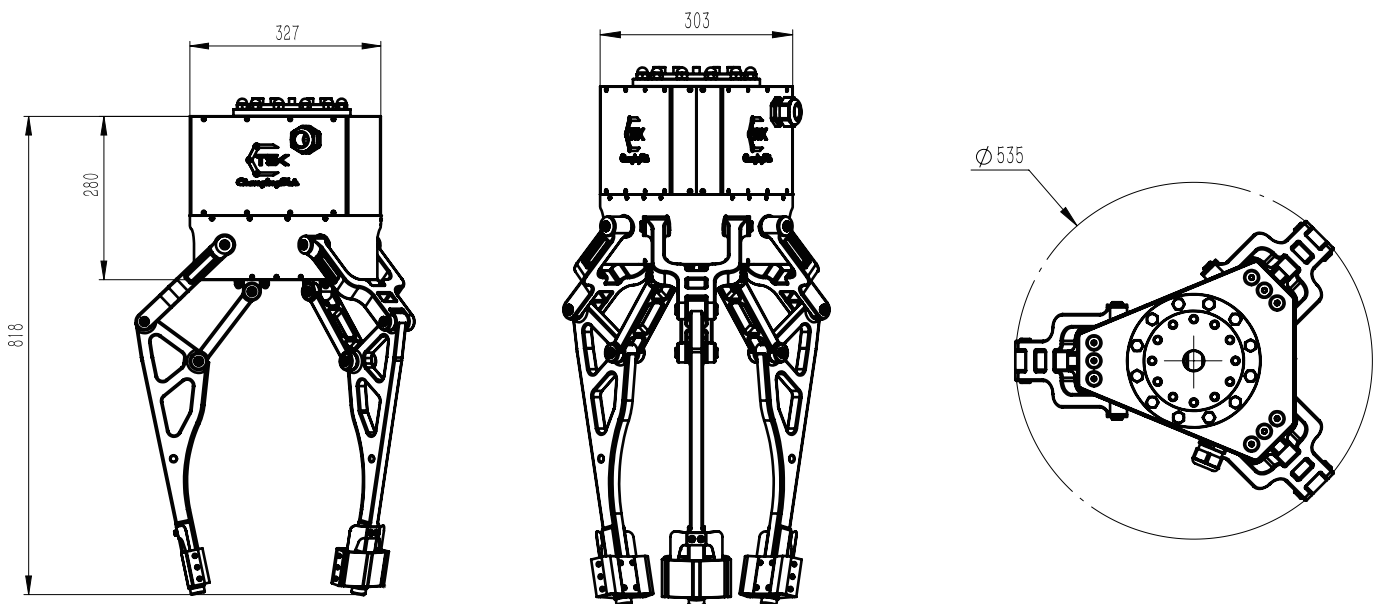
Heavy-Duty Modular Three-Finger Hand Model : CTHM3F460



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	1 mm/1 N	Maximum Current	25 A
Operating Voltage	24 V	Communication Protocol	RS485+IO
Programmable Parameters	Position, Speed, Force		
Feedbackable Parameters	Position, Dimension, Current		
Recommended Operating Environment (温度湿度)	0~40° C, Below 85%RH (No Condensation)		

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

Product dimensions diagram



Specification Parameters

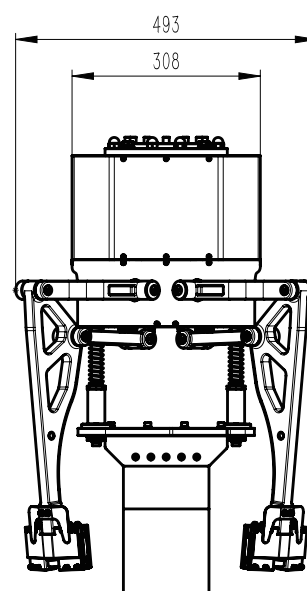
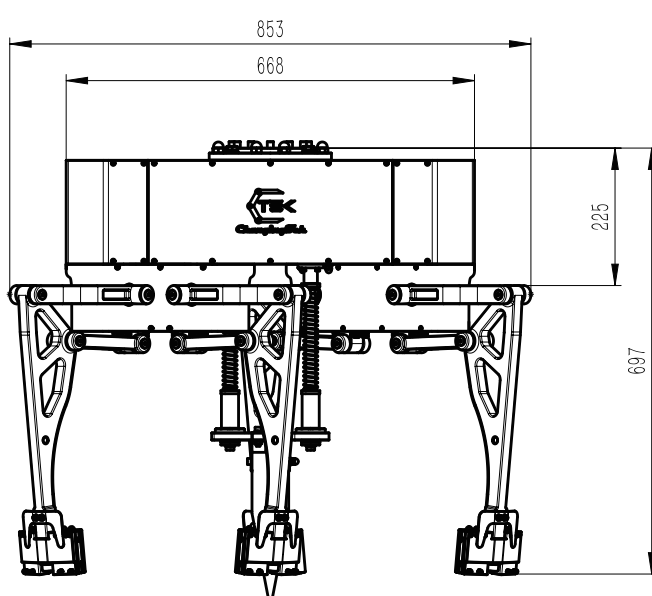


Heavy-Duty Modular Six-Finger Hand Model : CTHM6F460

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	RS485+IO		

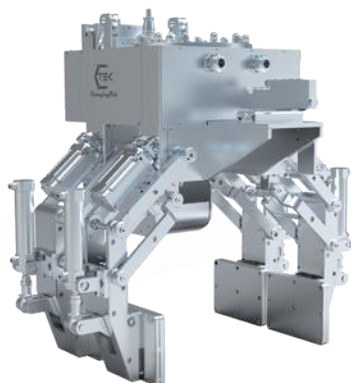
Integrated Drive & Control, Modular Design, Large Stroke, Ultra-high Payload

Product dimensions diagram



Specification Parameters

Heavy-Duty Five-Finger Hand model : CTHM5F530



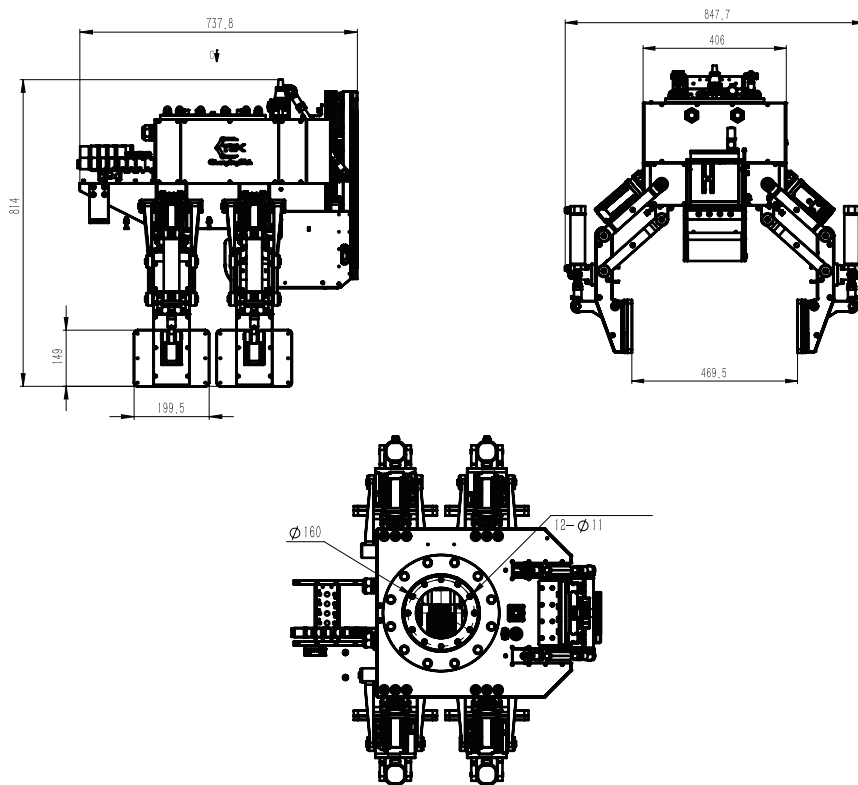
Model	CTHM5F530	Maximum Gripping Force per Finger	150N
Maximum Payload	80Kg	Maximum Grasping Speed	20° /s
Self-weight	≤ 90Kg	Operating Voltage	48V
Maximum Stroke	530mm	Operating Air Pressure	0.6-0.7Mpa
Luggage Dimensions	550 mm (L) × 500 mm (W) × 700 mm (H)		
Driving Method	Hybrid drive of motor, linear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

Low Maintenance Cost

Flexible Layout

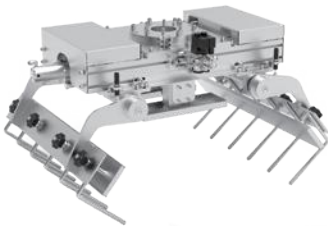
Ultra-high Payload

Product dimensions diagram



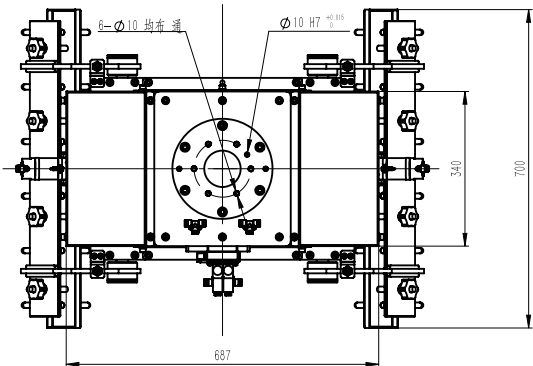
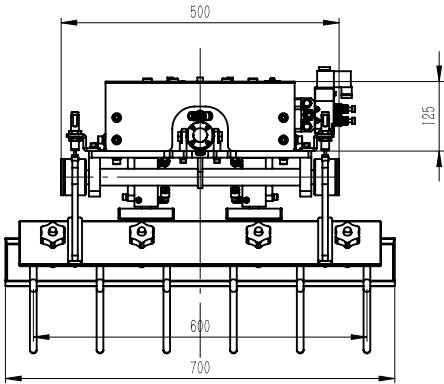
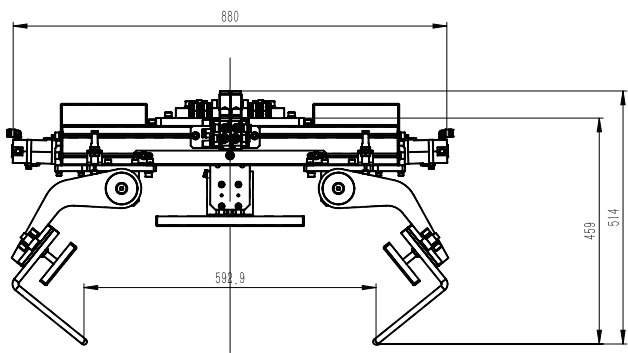
Specification
Parameters

Bag Stacking Gripper model : CTABG430



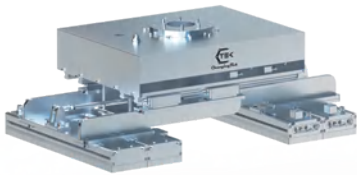
Model	CTABG430	Maximum Thickness of Graspable Bag	180 mm
Supply Air Pressure	0.7 Mpa	Maximum Width of Graspable Bag	430 mm
Maximum Payload	60 kg	Maximum Length of Graspable Bag	800 mm
Compression Stroke	50 mm	IP	IP54
Driving Method	Pneumatic		
Recommended Operating Environment	0~40 ° C, Below 85%RH (No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

Product dimensions diagram



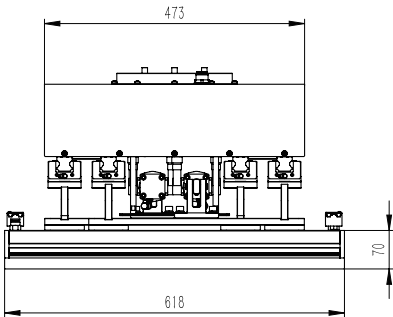
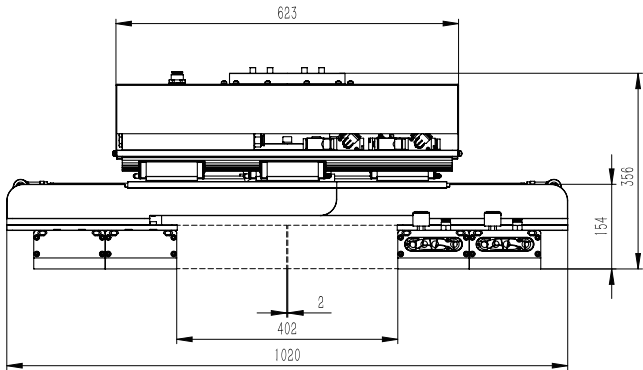
Specification
Parameters

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	IO
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

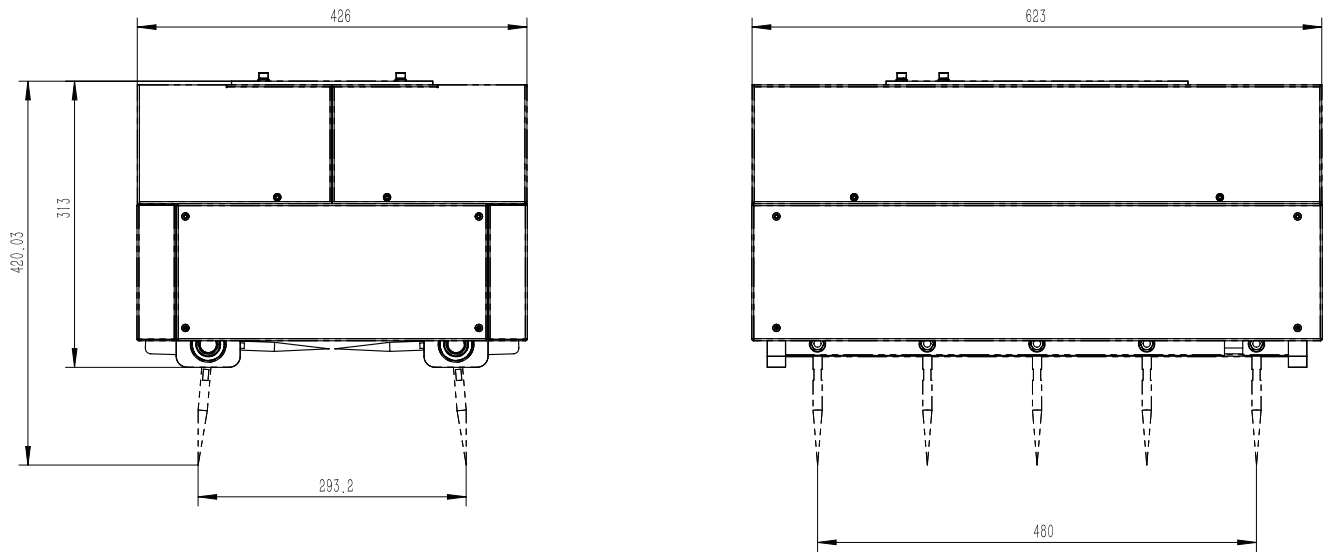
Direct Puncture Bag-Breaking Gripper
model : CTABG100



Model	CTABG100	Supply Air Pressure	0.7 Mpa
Driving Method	Pneumatic Cylinder	Communication Protocol	IO
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		

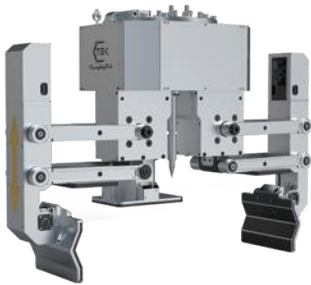
Low Maintenance Cost Flexible Layout High Safety

Product dimensions diagram



Specification Parameters

Luggage Gripper model : CTBSM2F670.00



Model	CTBSM2F670.00	Repeat Positioning Accuracy	$\pm 0.2\text{mm}$
Motor Type	Servo Motor	Backlash	$< 0.5\text{mm}$
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		

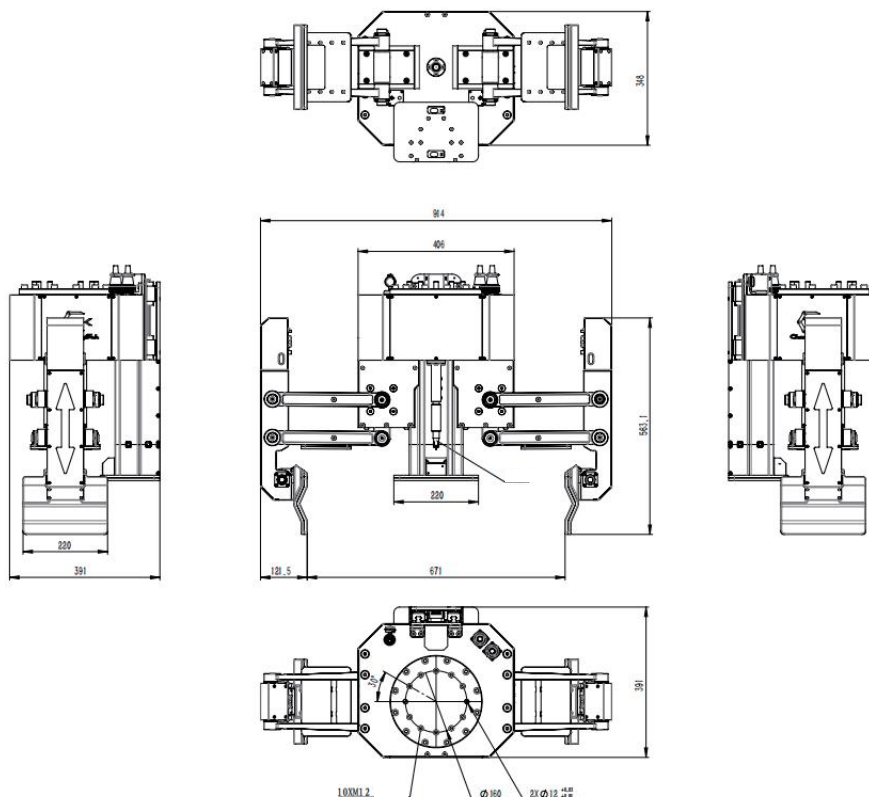
Low Maintenance Cost

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



Data Acquisition Device

Product Features

◆ UMI Data Acquisition Hand

Maximize efficiency, reduce costs and boost productivity

◆ Tactile Sensing

Paradigm shift from visual "seeing" to tactile "touching"

◆ Adaptive Grasping

The gripper linkage mechanism enables enveloping adaptive grasping, stably clamping round or special-shaped objects.

◆ Isomorphic Design

Lossless data migration

◆ Cross-Platform Compatibility

One set of data compatible with hundreds of robot models

◆ Integrated Software with Easy Programming

Equipped with intuitive software for seamless integration and programming, enabling quick operator proficiency.

Product Advantages



Grasping
Feedback



Tactile
Sensing



Precise Force
Control

Application Fields



Industrial
manufacturing



Food
production



Warehouse
logistics



Warehousing
Logistics



Household
Appliances



Automotive and
Related Industries

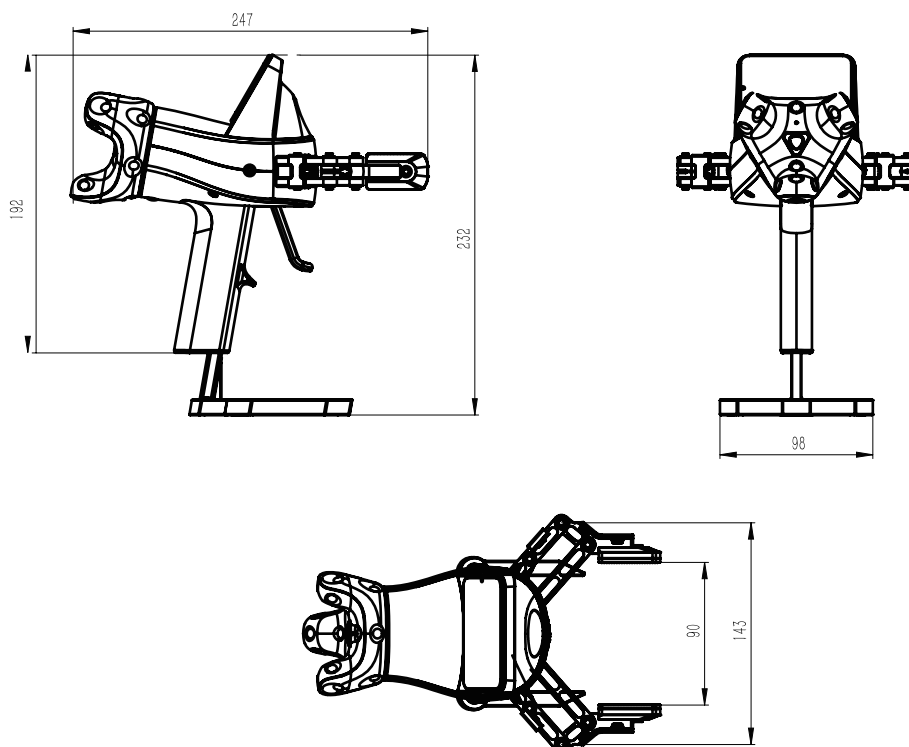
Specification Parameters

U-Hand MODEL:CTAG2F90-U



Model	CTAG2F90-U	Tactile Pressure Range	0-160N
Weight	600g	Maximum Opening Width	90mm
Battery Life	4 hours (Tracker)	Maximum Gripping Force	Manual
Supported Systems	Windows/Linux	Pose Accuracy (RPY Angle)	0.01°
Dimensions	247mm/160mm/232mm	Fisheye Lens Field of View (FOV)	130°
Output Frequency	30Hz	Tactile Array Spatial Resolution	2.34 taxels/cmcm ²
Gripper Type	Two-finger	Output Data Type	Sensors: JSON format + images
Tactile Sensor	Yes	Software Ecosystem	With adapted software platform
Storage	PCServer	Trajectory Reconstruction Accuracy	Better than 5mm
Screen	Supports video stream: H.264	Spatial Positioning Accuracy (XYZ)	0.7mm
Core Sensors	Vive Tracker、2k 2d Camera、Magnetic Encoder、Tactile Sensor		

产品尺寸图



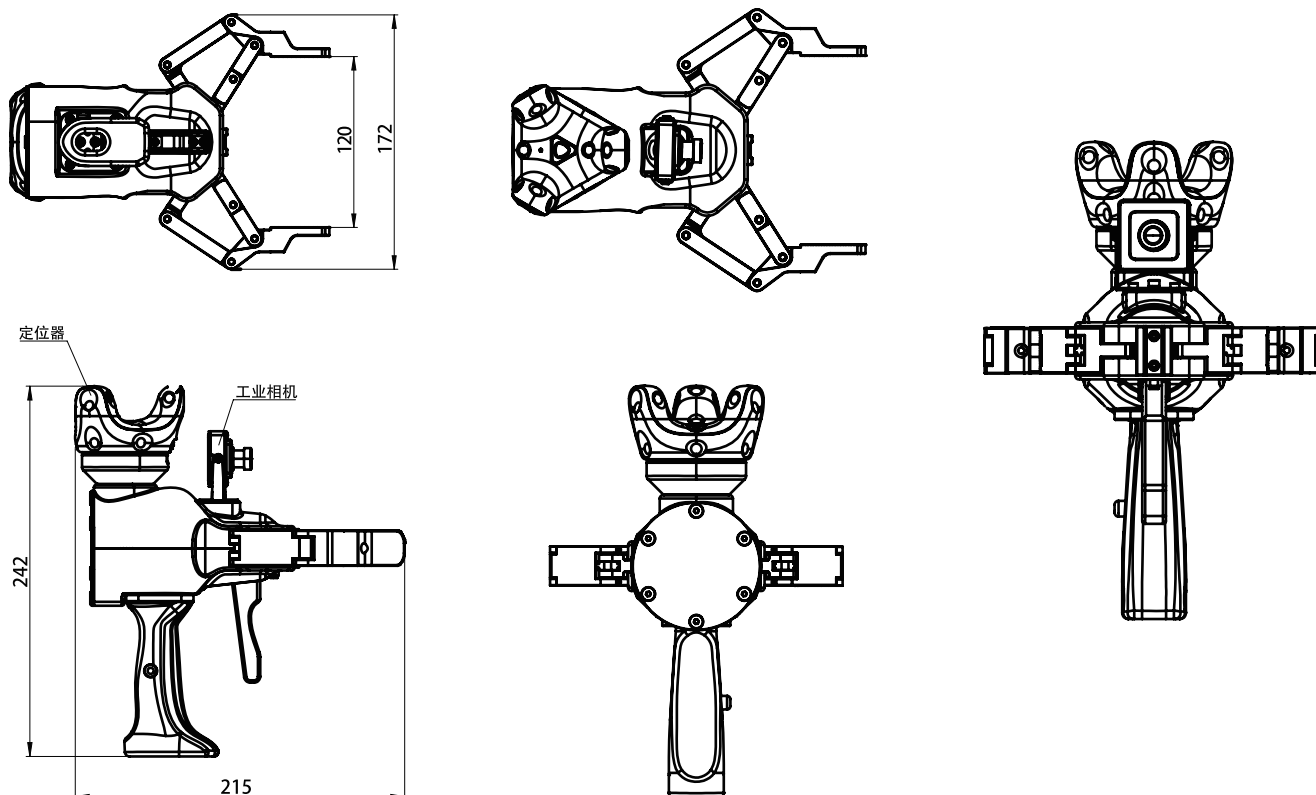
Specification Parameters

U-Hand MODEL:CTAG2F120S-K



Model	CTAG2F120S-K	Maximum Opening Width	120mm
Weight	980g	Maximum Gripping Force	Manual
Battery Life	4 hours (Tracker)	Output Data Type	Sensors: JSON format + images
Supported Systems	Windows/Linux	Trajectory Reconstruction Accuracy	Better than 5mm
Dimensions	247mm/160mm/232mm	Spatial Positioning Accuracy (XYZ)	0.7mm
Output Frequency	30Hz		
Gripper Type	Two-finger		
Pose Accuracy (RPY Angle)	0.01°		
Storage	PCServer		
Software Ecosystem	With adapted software platform		
Core Sensors	Vive Tracker、2k 2d Camera、Magnetic Encoder		

产品尺寸图



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



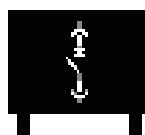
No external
air supply required



Drop detection



Grasp feedback



Break vacuum
function

Application Fields



Industrial
manufacturing



Food
production



Warehouse
logistics



Household
appliances



Automotive and
related fields



Aerospace

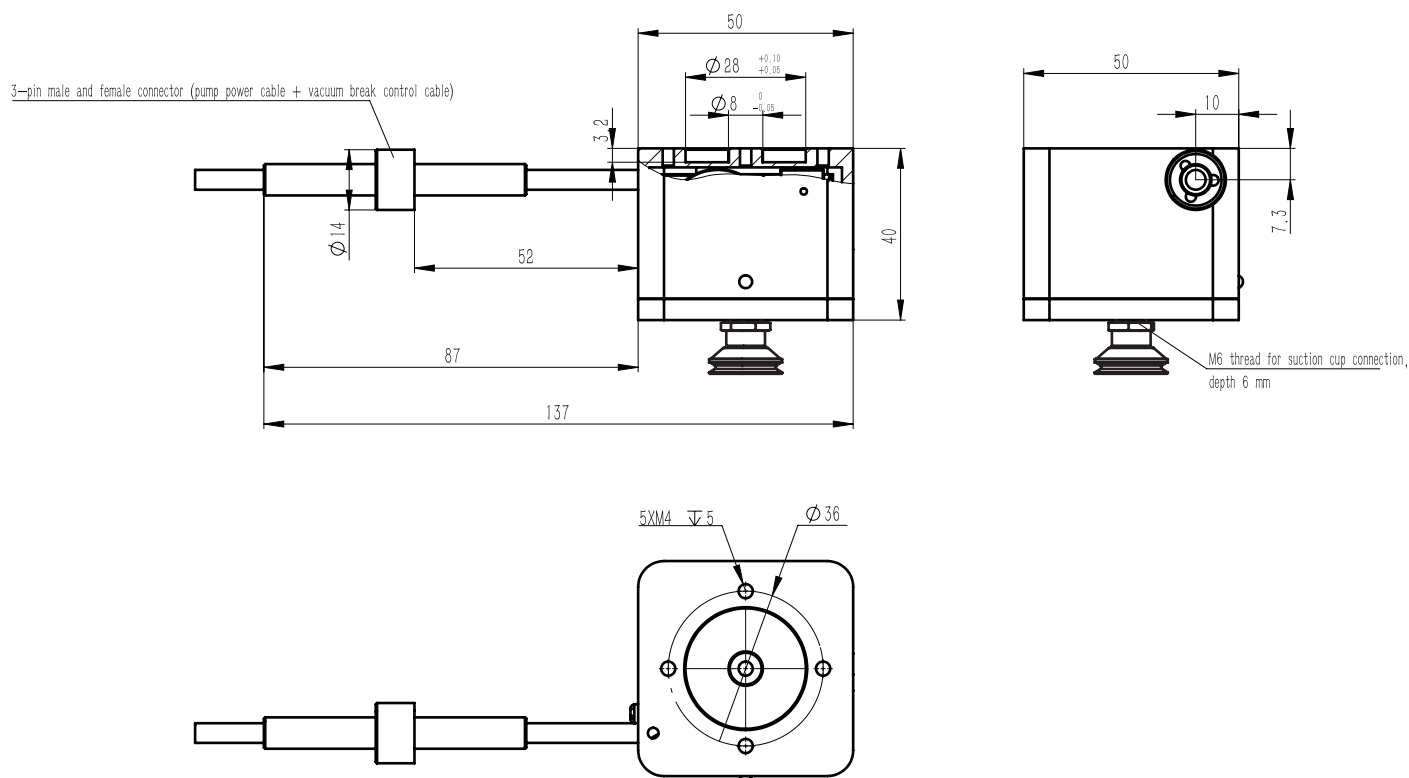
Specification Parameters

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°C	IP	IP40
Operating Humidity Range	Below 80%RH (No condensation)		
Communication Protocol	IO		

Note: Suction cup tip not included; customizable

Product dimensions diagram



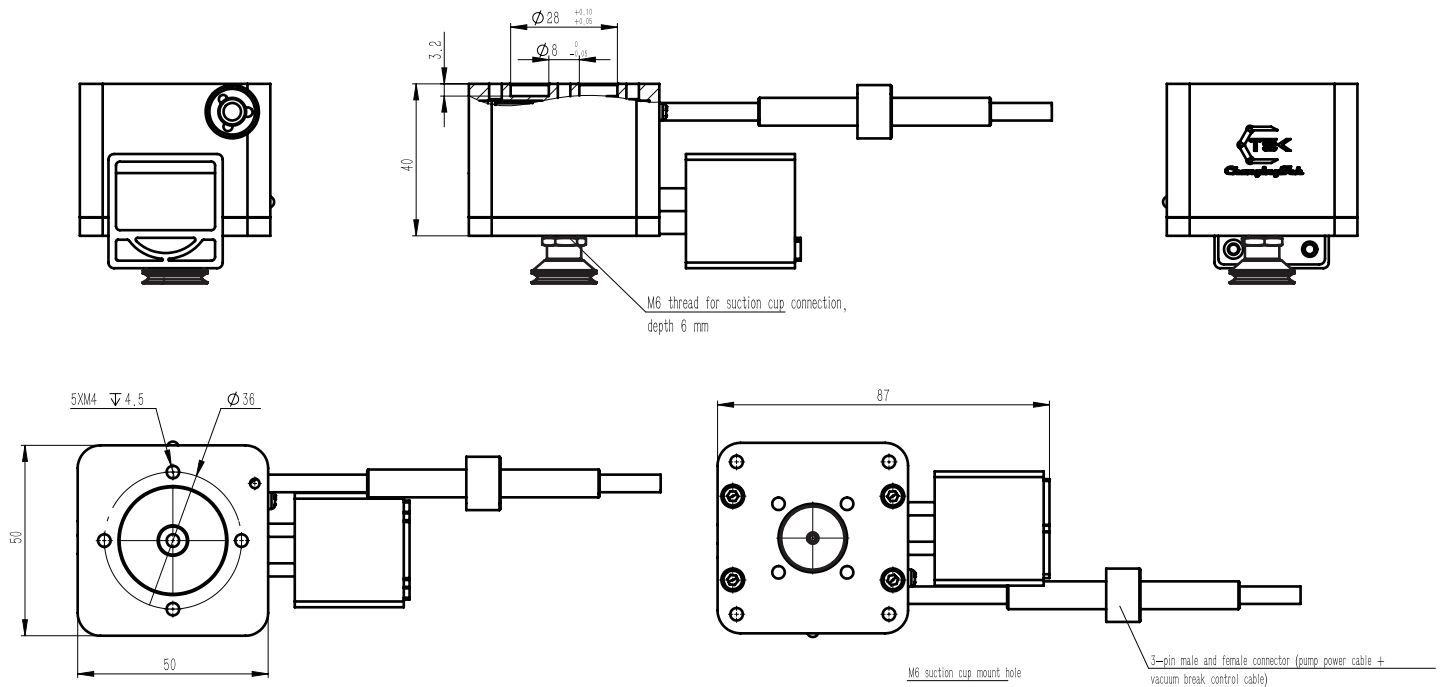
Specification Parameters

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°C	IP	IP40
Operating Humidity Range	Below 80%RH (No condensation)		
Communication Protocol	IO		

Note: Suction cup tip not included; customizable

Product dimensions diagram



Specification Parameters

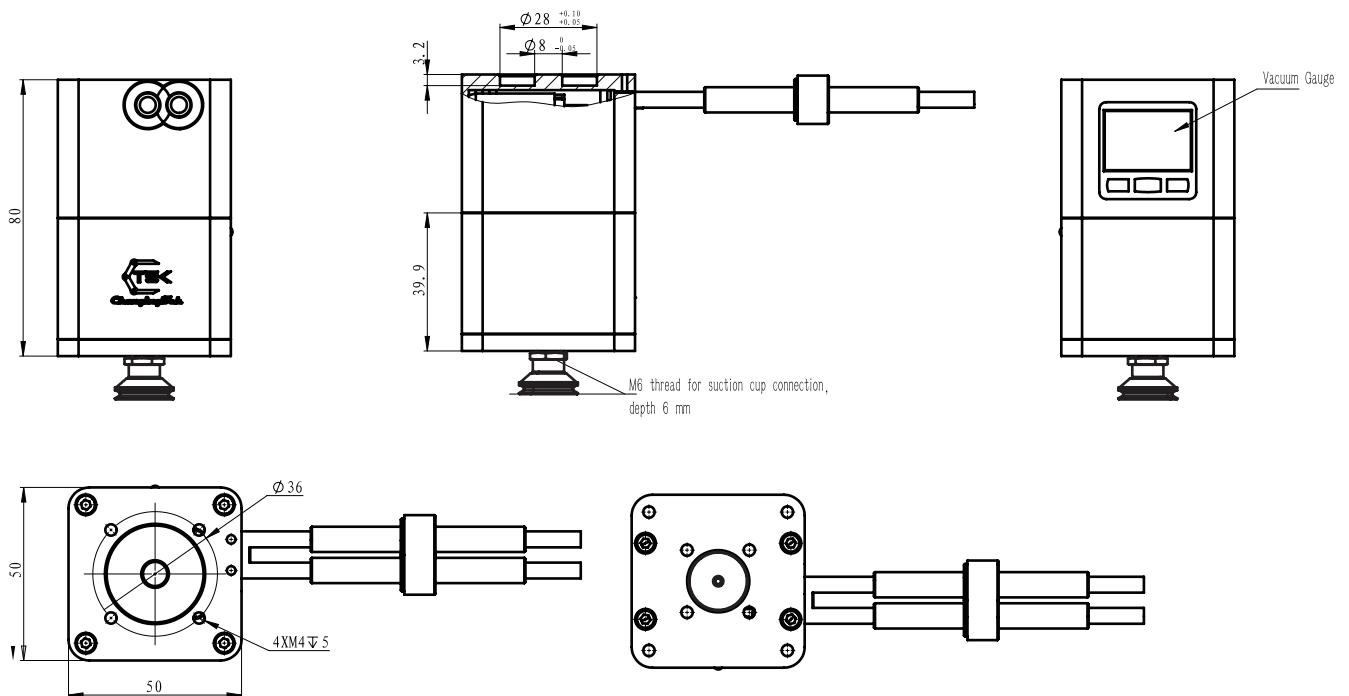


Electric Suction Gripper Model : CTMSC1F50.00B

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	IO		

Note: Suction cup tip not included; customizable

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.

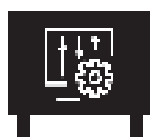
◆ Flexible Communication and Configuration Capability

Modular design and multiple control modes enhance configuration flexibility

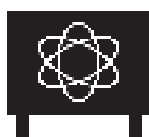
◆ Support for Secondary Development

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

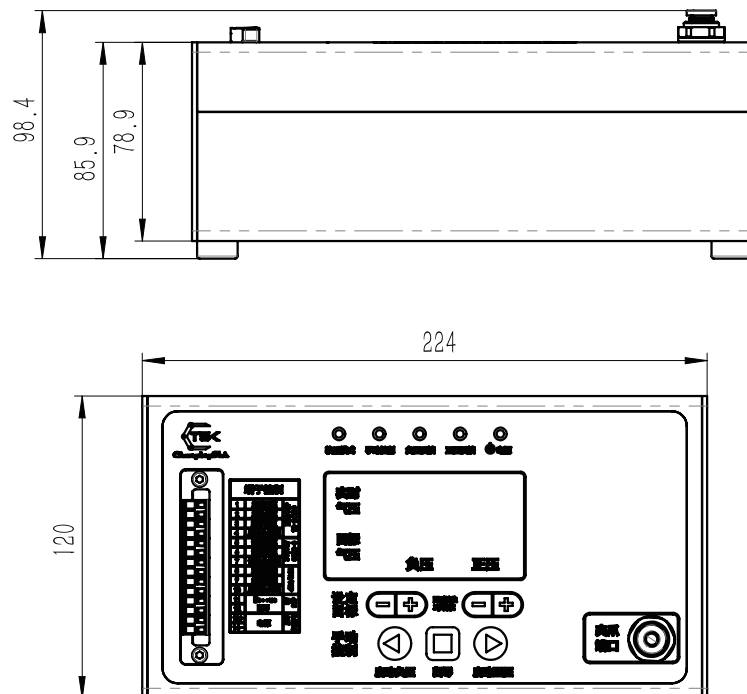
Specification Parameters

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, IO + analog quantity, RS485		
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

Humanoid Robots Series

Mechanical Parameters

Robot Height	650mm
Robot Stretch Height	1800mm
Total Weight	170kg
Body Degrees of Freedom	22Dof
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	$\pm 10\text{mm}$
Arm Positioning Accuracy	$\pm 0.05\text{mm}$
Force Sensing Accuracy	$\pm 0.2\text{NM}$
Visual Positioning Accuracy	$\pm 0.075\text{mm}$
Motion Planning and Obstacle Avoidance	Support
60 Working Pose Positioning	Support
Voice Interaction	Support
Drag Programming	Support