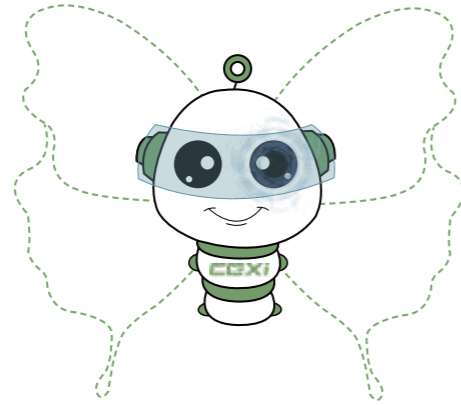


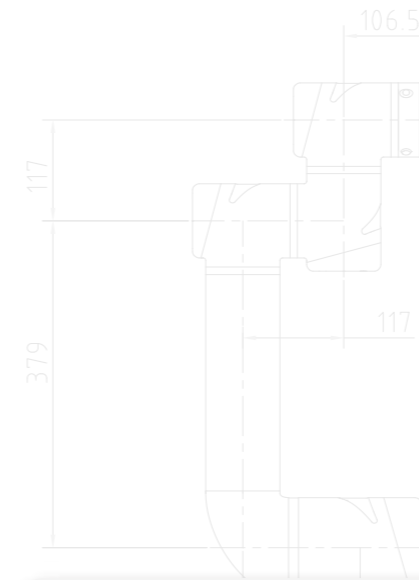
CGXi



Pioneer of "Industrial Control+Process"
Intelligent Manufacturing

**Vehicle specification
level High speed
collaborative robot**

Fast speed | High precision | Strong rigidity



Changguangxi Intelligent Manufacturing (Wuxi) Co., LTD

Headquarters: No. 27-1 Linze Road, Binhu District, Wuxi City,
Jiangsu Province
Branch: Beijing/Shenzhen
Phone: 400-0510-321 Email: marketing@cgxi.com

Copyright © 2023-2024 Changguangxi Intelligent Manufacturing reserves all copyrights
Changguangxi Intelligent Manufacturing reserves the right to change product specifications without
prior notice.
Changguangxi Intelligent Manufacturing has made every effort to ensure the accuracy and correctness
of the content of this document as of the date of publication, but makes no guarantees or commit-
ments regarding its content, and does not assume any responsibility for any issues arising from
inaccuracies in this document.



WeChat official
account



Case Program



Tiktok
comprehensive



Tiktok official
number

www.cgxi.com





Changguangxi Intelligent Manufacturing (Wuxi) Co., Ltd. is a technology-based enterprise dedicated to building digital intelligent manufacturing equipment with flexible intelligent robot technology as its core. The core R&D team comes from 985/211 universities such as Tsinghua University, University of Science and Technology of China, Harbin Institute of Technology, Xi'an Jiaotong University, Beijing Institute of Technology, and Jiangnan University. The company was founded in 2018 with a registered capital of 91.1676 million yuan. Its headquarters is located on the beautiful Changguangxi River in Wuxi, and it has research and operation centers in Beijing and Shenzhen.

The company team is formed by a group of elites from the domestic automation, robot, automobile, communication, 3C digital and Internet industries. It has more than 10 years of rich industry experience in servo motor, drive system, controller, motion control algorithm, automobile parts design and quality control, digital information management, etc.

The company is the world's first automotive robot supplier, innovatively applying robot technology to intelligent interaction in automobiles and redefining a new generation of automotive grade high-speed collaborative robots. Currently, it has formed three major product matrices: "automotive intelligent components, collaborative robots, and digital platforms".

Coinciding with the fourth wave of industrial revolution, Changguangxi Intelligent Manufacturing adheres to the corporate values of "Nourish the world, virtue does not leave" and actively practices the great mission of "Smart China and the World". Adhere to the innovative path of independent research and development, based on advanced productivity, deeply rooted in the manufacturing industry, and committed to rewriting the new industrial civilization belonging to the Chinese people! We carry the beautiful vision of "Gather by CGXi, smart big future", and look forward to joining you in the grand event of the times!

CORPORATE VALUES

NOURISH THE WORLD, VIRTUE DOES NOT LEAVE

CORPORATE VISION

GATHER BY CGXI, SMART BIG FUTURE

CORPORATE MISSION

SMART CHINA AND THE WORLD

Pioneer of "Industrial Control+Process" Intelligent Manufacturing



PRODUCT HIGHLIGHTS

1 FAST, STABLE AND ACCURATE BENCHMARKING INDUSTRIAL ROBOTS

High speed, high precision, high flexibility, and high intelligence.

3 MORE LIGHTWEIGHT AND CONVENIENT USER INTERACTION

The self weight load ratio is less than 4, and the tool end has three color status lights, two function buttons, and two bus interfaces.

5 APPLICATION TECHNOLOGIES THAT ARE CLOSER TO THE SCENE

The robot supports 2D and 3D vision, integrates force sensors, and connects mainstream PLCs, servo systems, CNC machine tools, etc. on the market. External expansion additional axis (EtherCAT bus) linkage is convenient, supporting conveyor belt tracking and synchronization.

2 SAFER AND MORE RIGOROUS PROTECTION DESIGN

The industry's first Xi black box, a fault site data recorder. Over a hundred safety functions self-monitoring and 10 level collision force protection. Innovative power-off protection technology ensures reliable shutdown even when the robot cable is cut off.

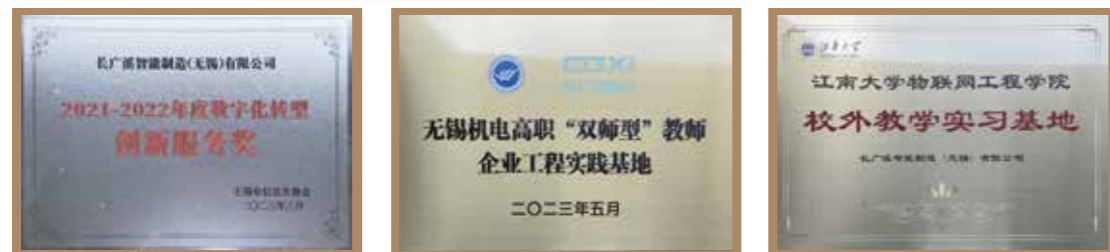
4 BUILDING A SMARTER INTELLIGENT MANUFACTURING ECOSYSTEM

It supports wired/wireless/4G/5G communication network and flexible access to MES and industrial Internet.

6 QUALITY CONTROL STANDARDS FOR THE AUTOMOTIVE INDUSTRY

Stable and reliable operation in complex environments with a long lifespan, the robot manufacturing system complies with the IATF16949:2016 international automotive quality management standard.

CERTIFICATION SYSTEM AND SOCIAL HONORS



C SERIES

COLLABORATIVE ROBOT

Consumer grade C-series collaborative robots

- Service oriented field
- Cost-effective
- Flexible deployment



CR3
 Load: 3kg
 Tool end Speed: 1m/s
 Repeatability: ±0.03mm
 Working Radius: 620mm

CR6
 Load: 6kg
 Tool end Speed: 2m/s
 Repeatability: ±0.03mm
 Working Radius: 924mm

Application Fields



Smart Health Care

Smart Retail

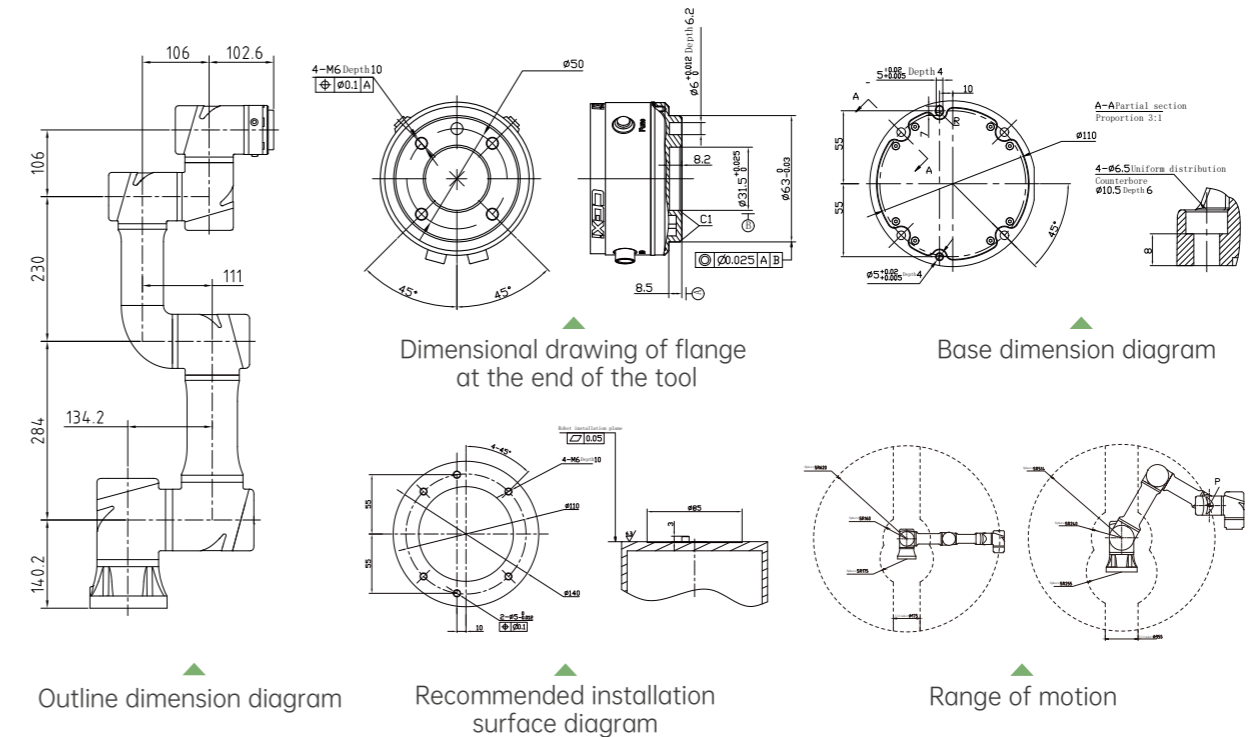
Smart Catering

Product parameters of consumer grade collaborative robots

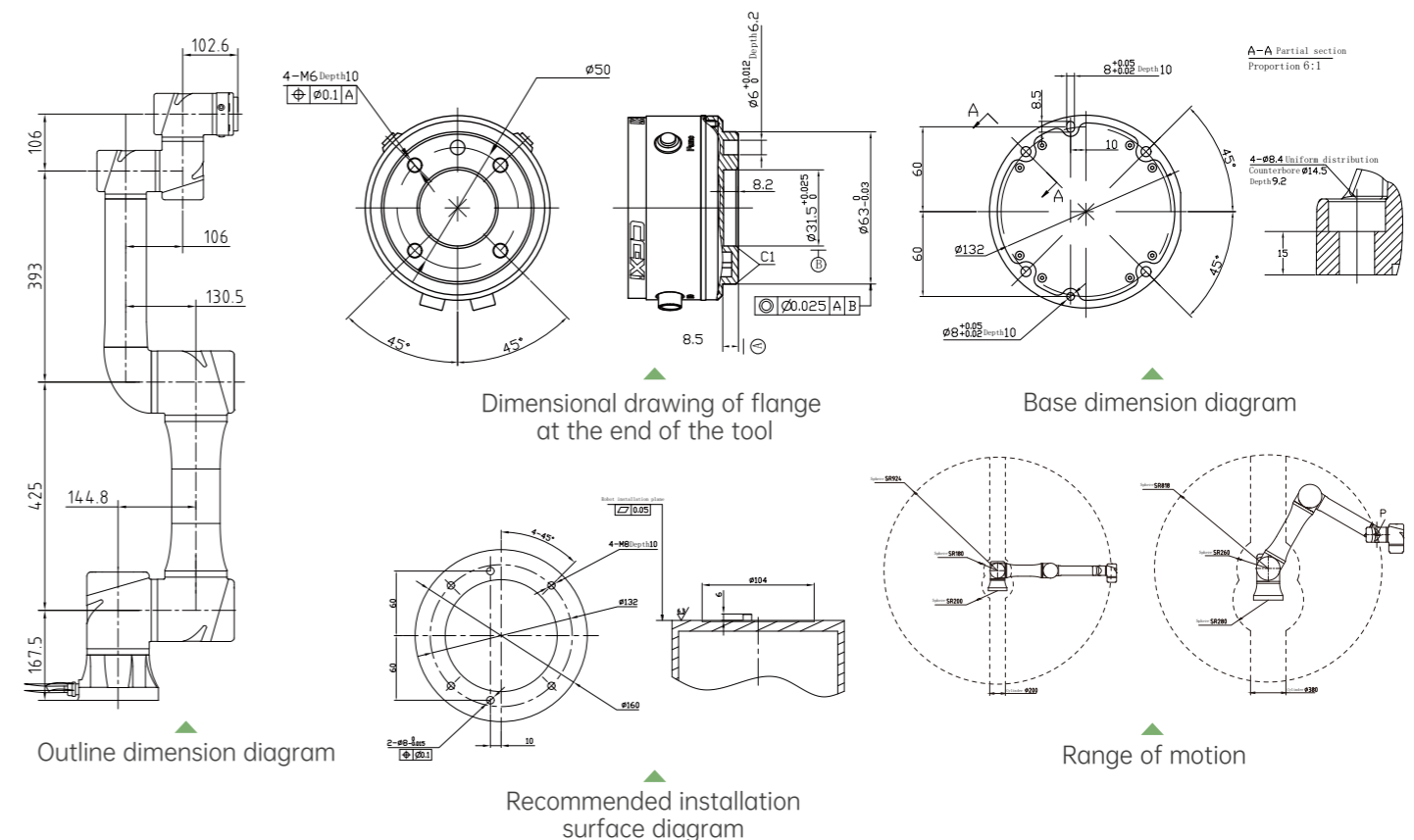


Robot arm model		CR3	CR6		
Degrees of freedom		6	6		
Rated load (kg)		3	6		
Maximum working radius (mm)		620	924		
Repeatability (mm)		± 0.03	± 0.03		
Control bus/frequency		EtherCAT/1KHz	EtherCAT/1KHz		
Maximum speed of the tool end (m/s)		1	2		
Noise(dB)		≤60	≤60		
Rated power (W)		150	200		
Ambient temperature(°C)		-5~55	-5~55		
Working environment humidity		5%~90%RH, No condensation	5%~90%RH, No condensation		
Installation method		Any angle	Any angle		
Protection grade		IP66	IP66		
Weight(kg)(Excluding cables)		15	21		
Tool port	I/O Port	1-24V/1APower; 2-DI; 2-DO; 2-AI	1-24V/1APower; 2-DI; 2-DO; 2-AI		
	COM Port	1-24V/1APower; 1-RS485; 1-EtherCAT	1-24V/1APower; 1-RS485; 1-EtherCAT		
Joint motion parameters		Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed
The first joint axis-J1		±360°	180°/s	±360°	180°/s
The second joint axis-J2		±360°	180°/s	±360°	180°/s
The third joint axis-J3		±165°	180°/s	±165°	180°/s
The fourth joint axis-J4		±360°	180°/s	±360°	180°/s
The fifth joint axis-J5		±360°	180°/s	±360°	180°/s
The sixth joint axis-J6		±360°	180°/s	±360°	180°/s

CR3 Dimension



CR6 Dimension



G SERIES COLLABORATIVE ROBOT

Industrial grade G-series collaborative robots



Fast speed

High precision

Compact



R3

Load: 3kg
Tool end Speed: 2m/s
Repeatability: ±0.02mm
Working Radius: 620mm



R4

Load: 4kg
Tool end Speed: 3m/s
Repeatability: ±0.05mm
Working Radius: 1300mm



R6

Load: 6kg
Tool end Speed: 3m/s
Repeatability: ±0.02mm
Working Radius: 924mm



R9

Load: 9kg
Tool end Speed: 3m/s
Repeatability: ±0.05mm
Working Radius: 1500mm



R12

Load: 12kg
Tool end Speed: 3m/s
Repeatability: ±0.03mm
Working Radius: 1300mm



R18

Load: 18kg
Tool end Speed: 2m/s
Repeatability: ±0.02mm
Working Radius: 900mm



R20

Load: 20kg
Tool end Speed: 4m/s
Repeatability: ±0.05mm
Working Radius: 1800mm



R30

Load: 30kg
Tool end Speed: 3m/s
Repeatability: ±0.05mm
Working Radius: 1300mm

Application Fields



Automotive components



3C Electronics

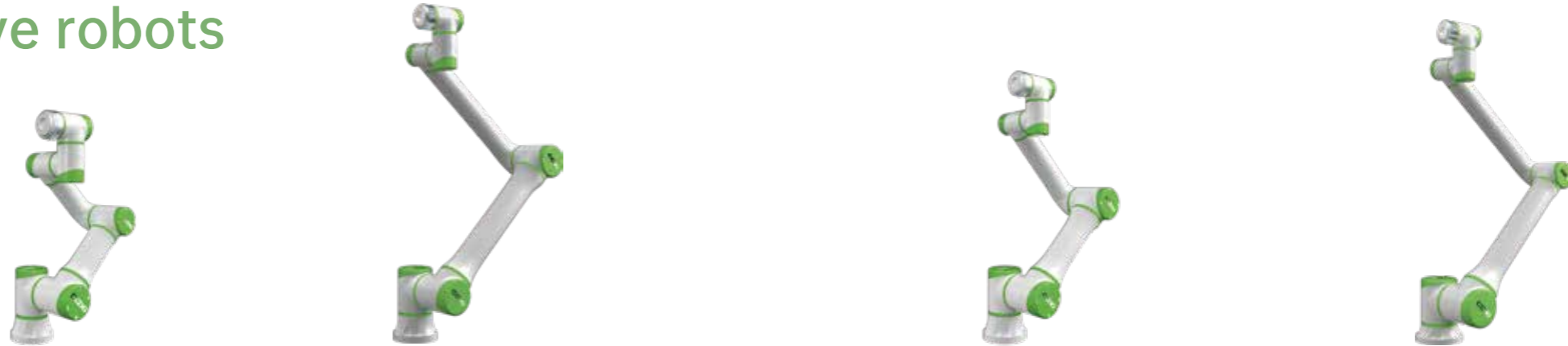


Machining

5G+ Robotics Intelligent Robot Production Line



Product parameters for industrial grade collaborative robots



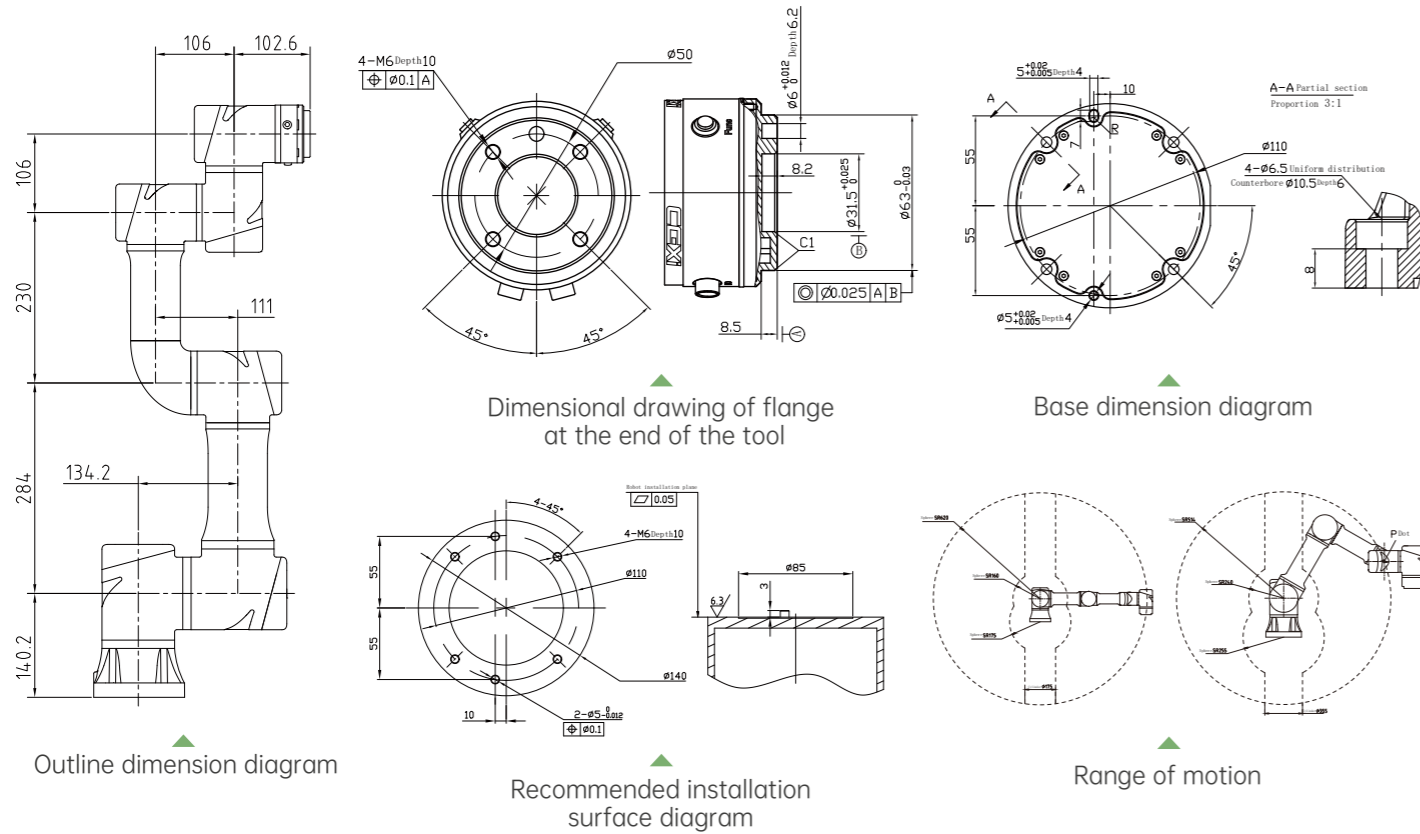
Robot arm model		R3	R4	R6	R9
Degrees of freedom		6	6	6	6
Rated load (kg)		3	4	6	9
Maximum working radius (mm)		620	1300	924	1500
Repeatability (mm)		± 0.02	± 0.05	± 0.02	± 0.05
Control bus/frequency		EtherCAT/1KHz	EtherCAT/1KHz	EtherCAT/1KHz	EtherCAT/1KHz
Maximum speed of the tool end (m/s)		2	3	3	3
Noise(dB)		≤60	≤60	≤60	≤60
Rated power (W)		150	260	260	550
Ambient temperature(°C)		-5~55	-5~55	-5~55	-5~55
Working environment humidity		5%~90%RH, No condensation	5%~90%RH, No condensation	5%~90%RH, No condensation	5%~90%RH, No condensation
Installation method		Any angle	Any angle	Any angle	Any angle
Protection grade		IP65	IP65	IP65	IP65
Weight(kg)(Excluding cables)		15	22	21	37
Tool port	I/O Port	1-24V/1APower; 2-DI; 2-DO; 2-AI	1-24V/1APower; 2-DI; 2-DO; 2-AI	1-24V/1APower; 2-DI; 2-DO; 2-AI	1-24V/1APower; 2-DI; 2-DO; 2-AI
	COM Port	1-24V/1APower; 1-RS485; 1-EtherCAT	1-24V/1APower; 1-RS485; 1-EtherCAT	1-24V/1APower; 1-RS485; 1-EtherCAT	1-24V/1APower; 1-RS485; 1-EtherCAT
Joint motion parameters		Maximum range of motion Maximum speed	Maximum range of motion Maximum speed	Maximum range of motion Maximum speed	Maximum range of motion Maximum speed
The first joint axis-J1		±360° 220°/s	±360° 210°/s	±360° 210°/s	±360° 150°/s
The second joint axis-J2		±360° 220°/s	±360° 210°/s	±360° 210°/s	±360° 150°/s
The third joint axis-J3		±165° 240°/s	±165° 210°/s	±165° 210°/s	±165° 210°/s
The fourth joint axis-J4		±360° 360°/s	±360° 360°/s	±360° 360°/s	±360° 240°/s
The fifth joint axis-J5		±360° 360°/s	±360° 360°/s	±360° 360°/s	±360° 240°/s
The sixth joint axis-J6		±360° 360°/s	±360° 360°/s	±360° 360°/s	±360° 240°/s

Product parameters for industrial grade collaborative robots

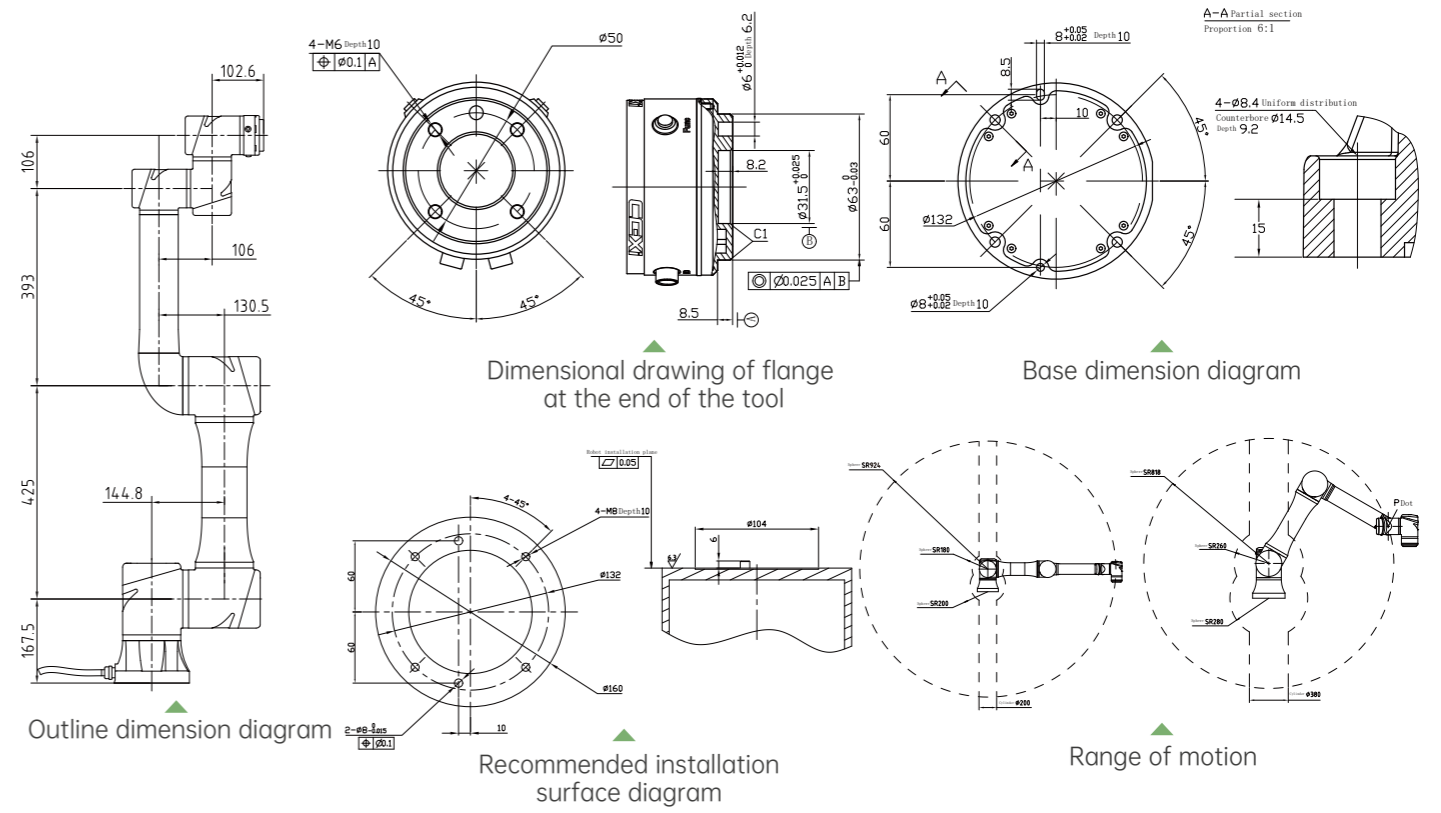


Robot arm model		R12	R18	R20	R30				
Degrees of freedom		6	6	6	6				
Rated load (kg)		12	18	20	30				
Maximum working radius (mm)		1300	900	1800	1300				
Repeatability (mm)		± 0.03	± 0.02	± 0.05	± 0.05				
Control bus/frequency		EtherCAT/1KHz	EtherCAT/1KHz	EtherCAT/1KHz	EtherCAT/1KHz				
Maximum speed of the tool end (m/s)		3	2	4	3				
Noise(dB)		≤60	≤60	≤60	≤60				
Rated power (W)		550	550	1500	1500				
Ambient temperature(°C)		-5~55	-5~55	-5~55	-5~55				
Working environment humidity		5%~90%RH, No condensation	5%~90%RH, No condensation	5%~90%RH, No condensation	5%~90%RH, No condensation				
Installation method		Any angle	Any angle	Any angle	Any angle				
Protection grade		IP65	IP65	IP65	IP65				
Weight(kg)(Excluding cables)		36	35	68	64				
Tool port	I/O Port	1-24V/1APower; 2-DI; 2-DO; 2-AI	1-24V/1APower; 2-DI; 2-DO; 2-AI	1-24V/1APower; 2-DI; 2-DO; 2-AI	1-24V/1APower; 2-DI; 2-DO; 2-AI				
	COM Port	1-24V/1APower; 1-RS485; 1-EtherCAT	1-24V/1APower; 1-RS485; 1-EtherCAT	1-24V/1APower; 1-RS485; 1-EtherCAT	1-24V/1APower; 1-RS485; 1-EtherCAT				
Joint motion parameters		Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed
The first joint axis-J1		±360°	150°/s	±360°	150°/s	±360°	180°/s	±360°	180°/s
The second joint axis-J2		±360°	150°/s	±360°	150°/s	±360°	180°/s	±360°	180°/s
The third joint axis-J3		±165°	210°/s	±165°	210°/s	±165°	210°/s	±165°	210°/s
The fourth joint axis-J4		±360°	240°/s	±360°	240°/s	±360°	270°/s	±360°	270°/s
The fifth joint axis-J5		±360°	240°/s	±360°	240°/s	±360°	270°/s	±360°	270°/s
The sixth joint axis-J6		±360°	240°/s	±360°	240°/s	±360°	270°/s	±360°	270°/s

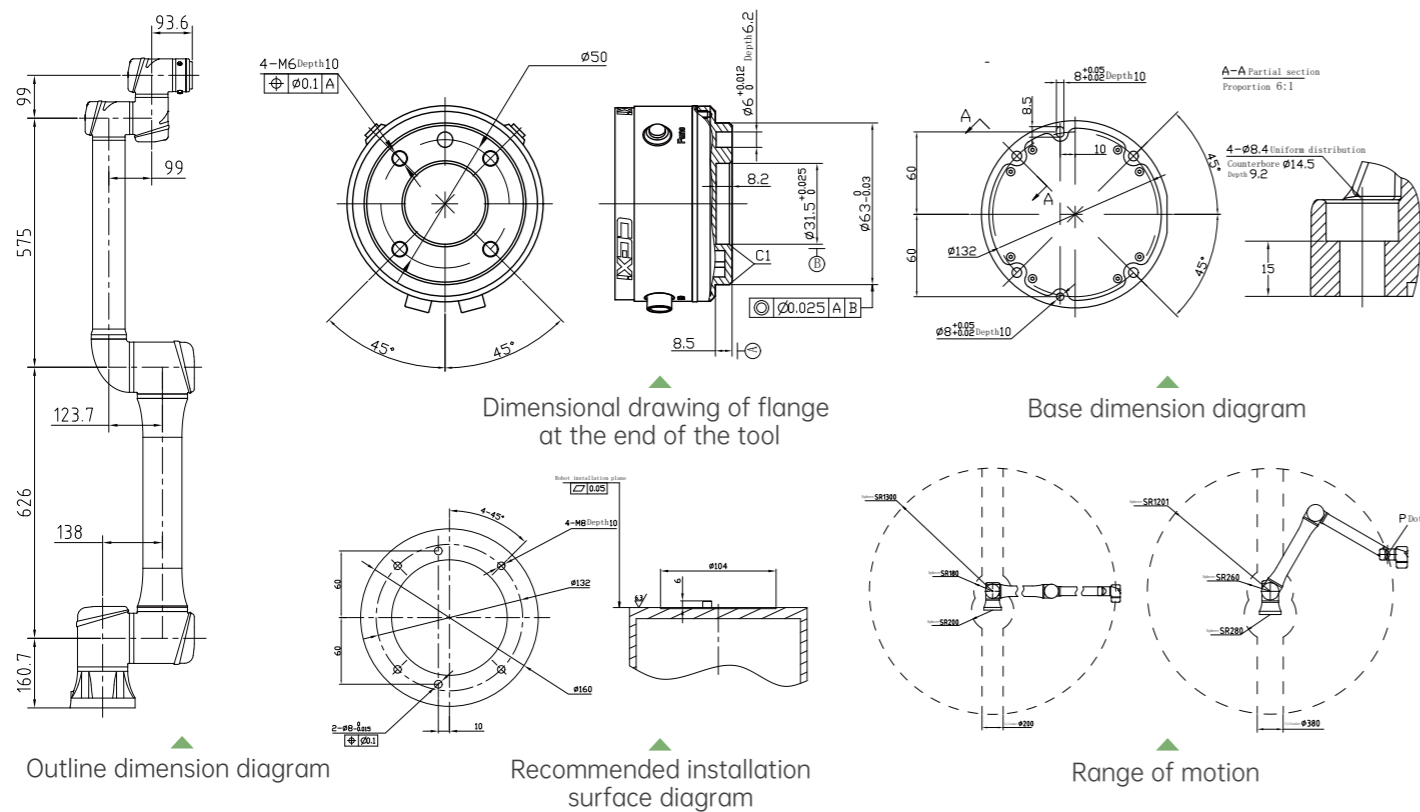
R3 Dimension



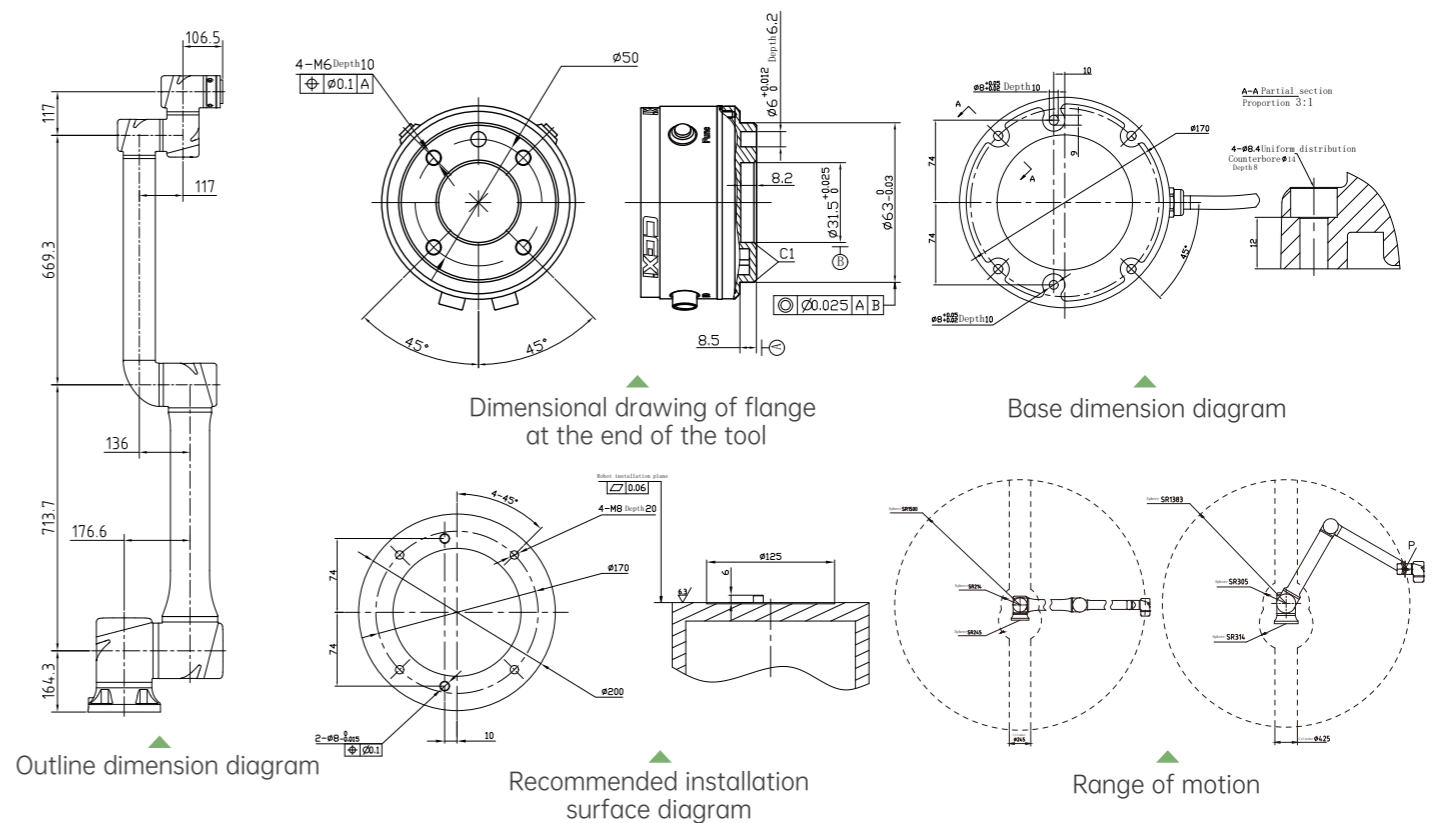
R6 Dimension



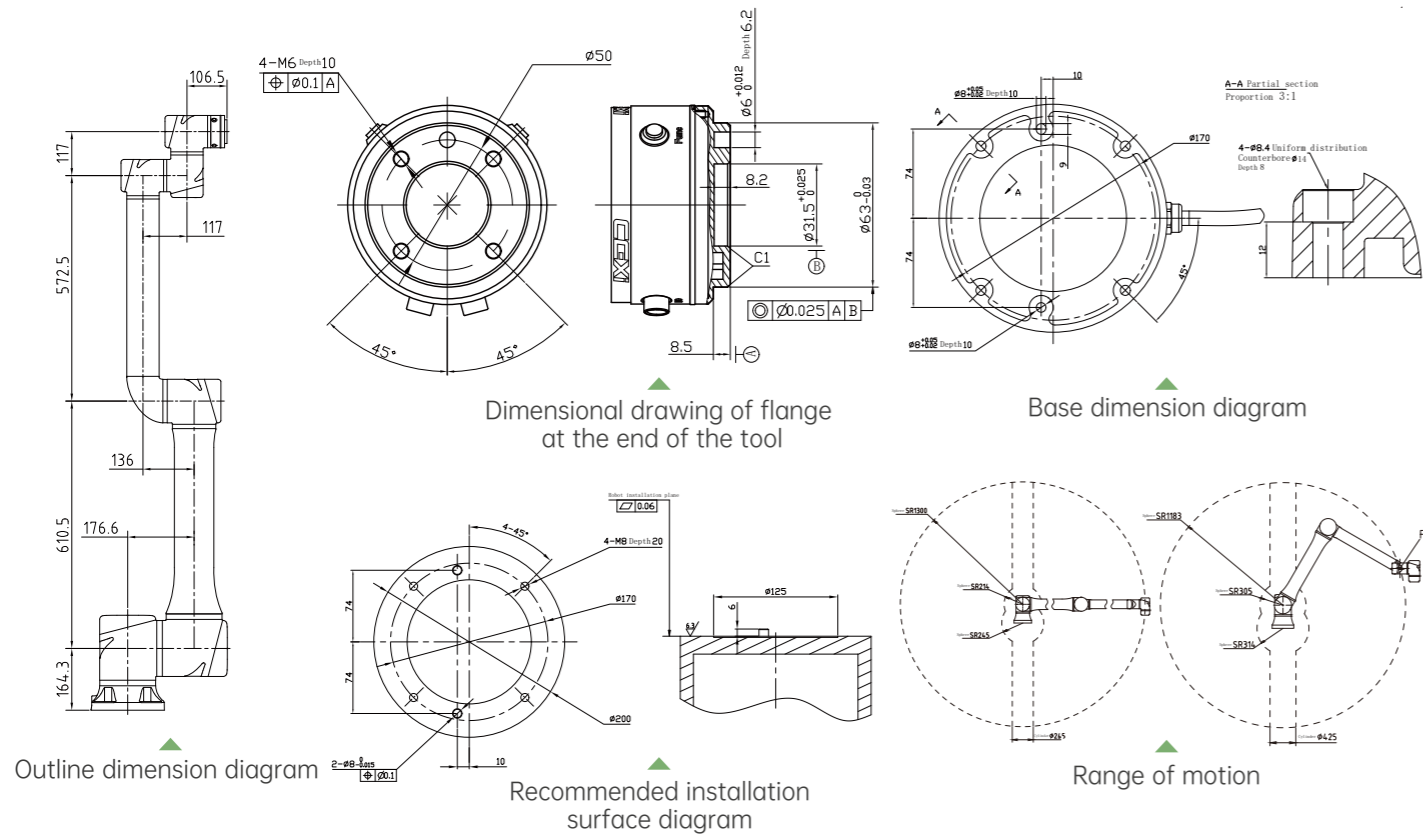
R4 Dimension



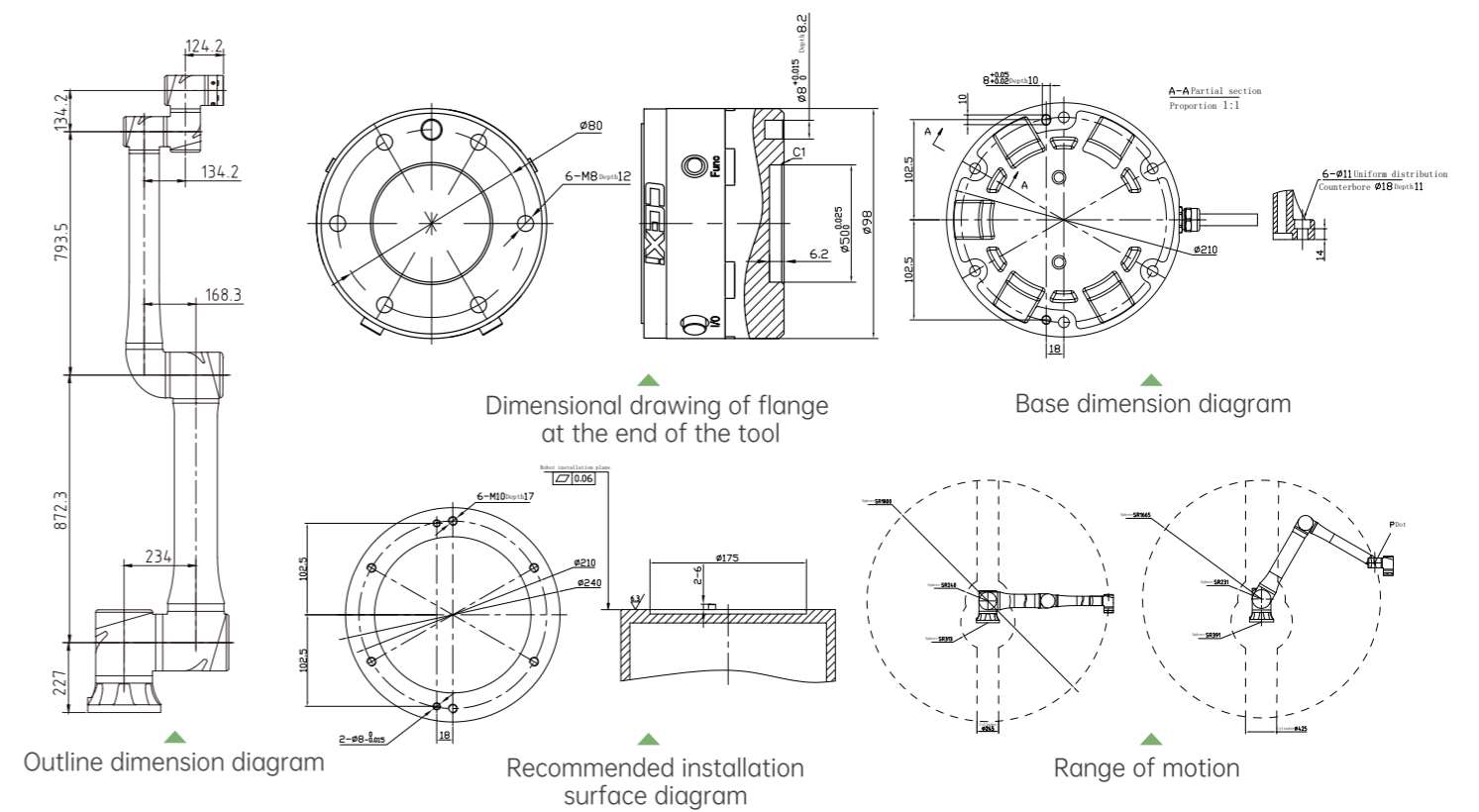
R9 Dimension



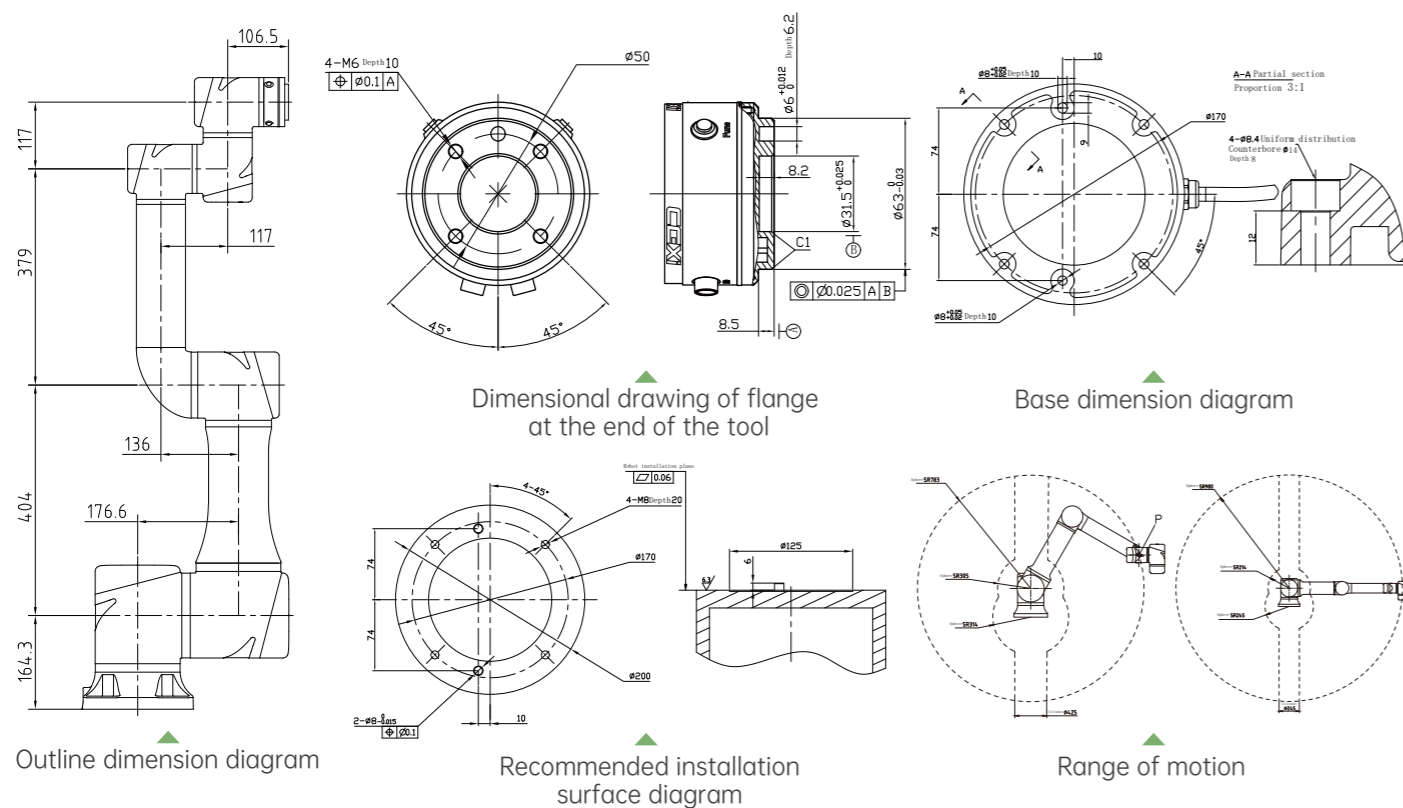
R12 Dimension



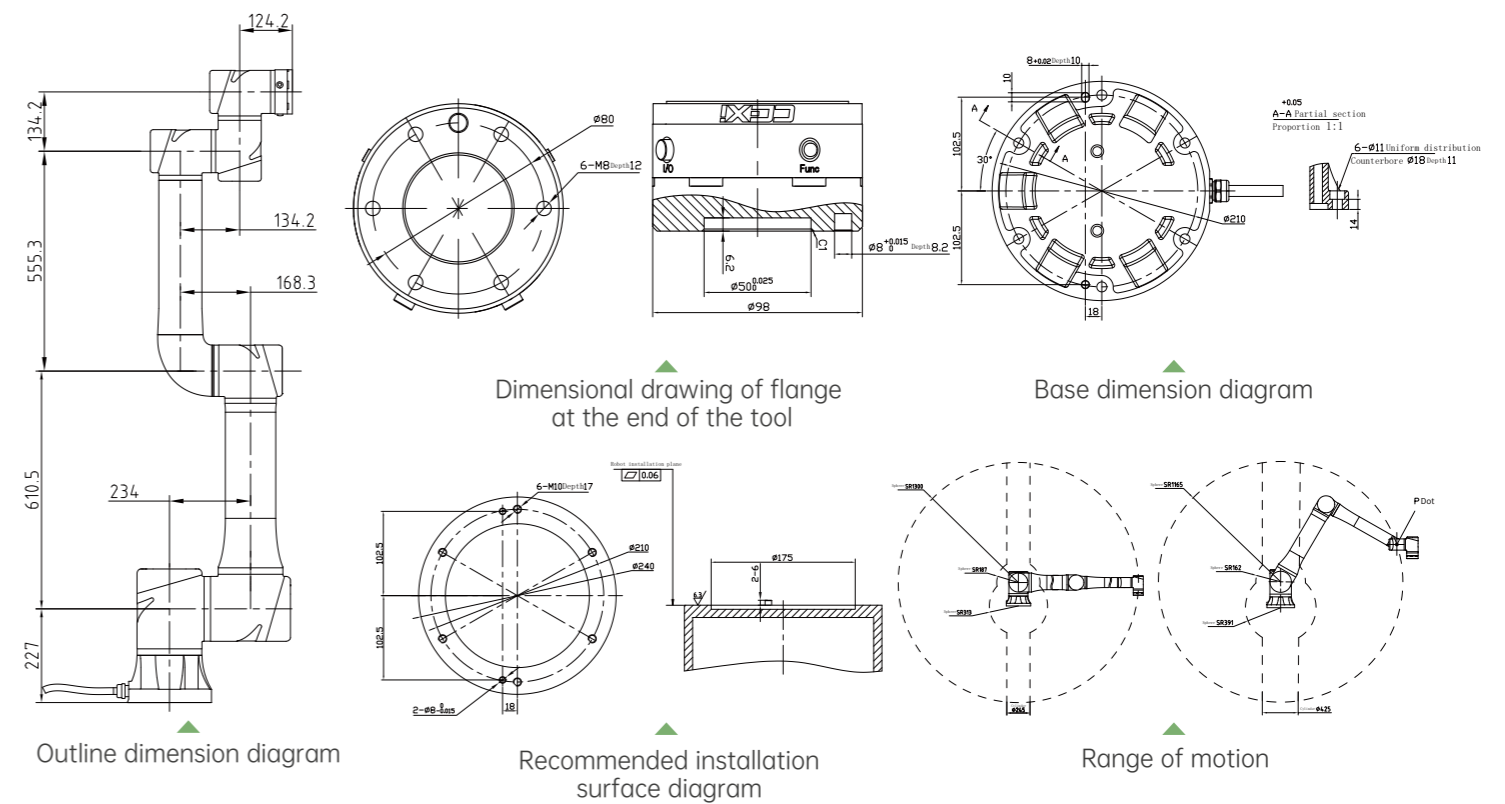
R20 Dimension



R18 Dimension



R30 Dimension



X SERIES COLLABORATIVE ROBOT



X series explosion-proof collaborative robot

FAST SPEED

HIGH
PRECISION

HIGH PROTECTION
LEVEL

SAFE AND
RELIABLE



XR6

Load: 6kg
Tool end Speed: 3m/s
Repeatability: ±0.02mm
Working Radius: 924mm

XR9

Load: 9kg
Tool end Speed: 3m/s
Repeatability: ±0.05mm
Working Radius: 1500mm

XR12

Load: 12kg
Tool end Speed: 3m/s
Repeatability: ±0.03mm
Working Radius: 1300mm

XR18

Load: 18kg
Tool end Speed: 3m/s
Repeatability: ±0.02mm
Working Radius: 900mm

XR20

Load: 20kg
Tool end Speed: 4m/s
Repeatability: ±0.05mm
Working Radius: 1800mm

Application Fields



Fuel up



Car spraying



Chemical processing

X series extreme temperature version collaborative robot



AL6

Load: 6kg
Tool end Speed: 3m/s
Repeatability: ±0.02mm
Working Radius: 924mm

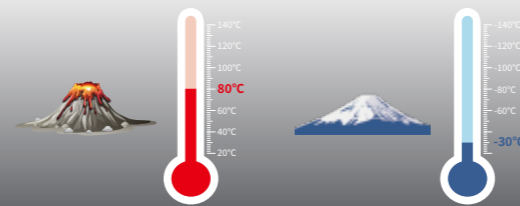
AL9

Load: 9kg
Tool end Speed: 3m/s
Repeatability: ±0.05mm
Working Radius: 1500mm

AL12

Load: 12kg
Tool end Speed: 3m/s
Repeatability: ±0.03mm
Working Radius: 1300mm

Product Advantages



Industry's first extreme temperature collaborative robot



X series explosion-proof collaborative robot



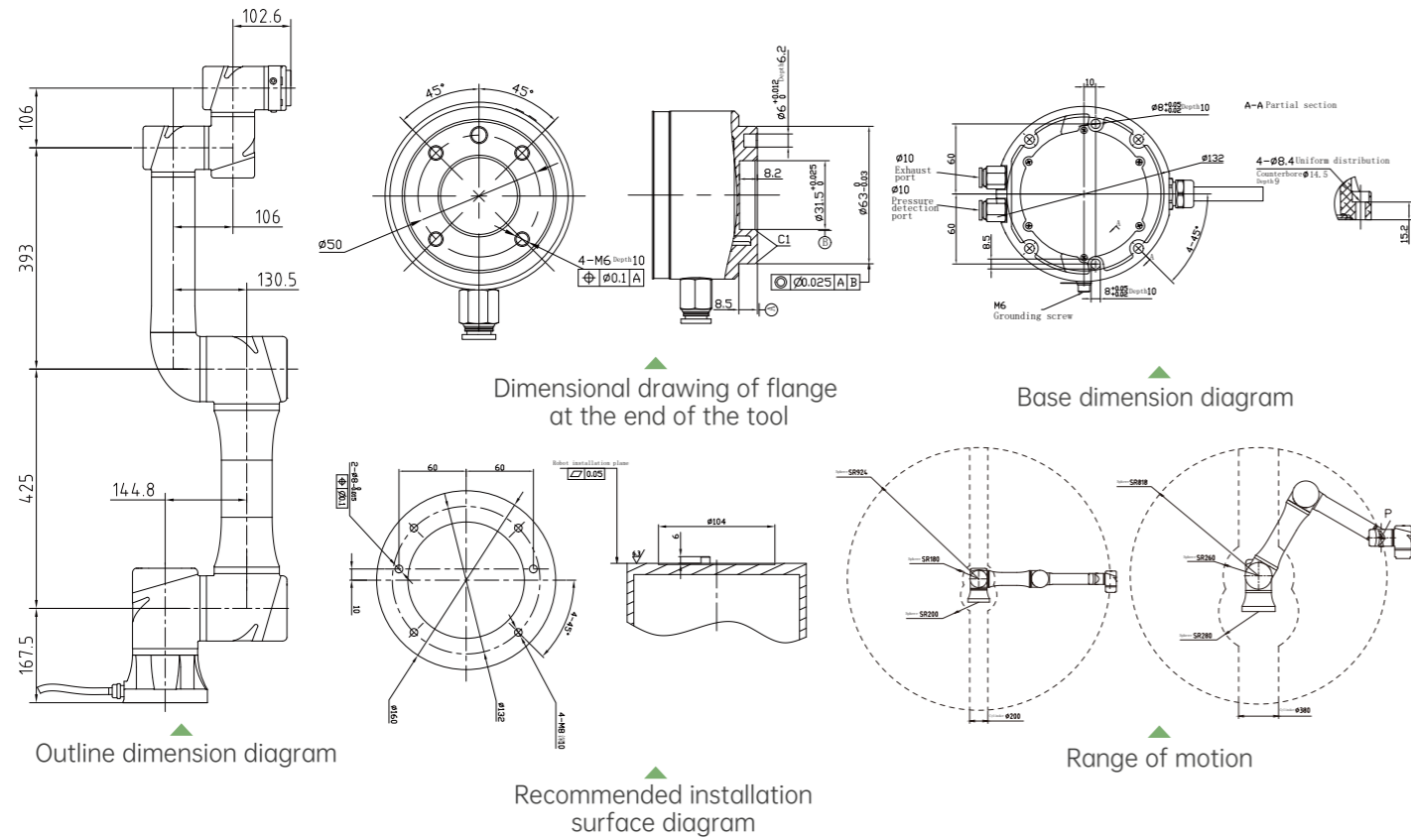
Robot arm model		XR6	XR9	XR12	XR18	XR20			
Degrees of freedom		6	6	6	6	6			
Rated load (kg)		6	9	12	18	20			
Maximum working radius (mm)		924	1500	1300	900	1800			
Repeatability (mm)		± 0.02	± 0.05	± 0.03	± 0.02	± 0.05			
Control bus/frequency		EtherCAT/1KHz		EtherCAT/1KHz		EtherCAT/1KHz			
Maximum speed of the tool end (m/s)		3	3	3	3	4			
Noise(dB)		≤60	≤60	≤60	≤60	≤60			
Rated power (W)		260	550	550	550	1500			
Ambient temperature(°C)		-5~55		-5~55		-5~55			
Working environment humidity		5%~90%RH, No condensation		5%~90%RH, No condensation		5%~90%RH, No condensation			
Installation method		Any angle		Any angle		Any angle			
Protection grade		IP68		IP68		IP68			
Weight(kg)(Excluding cables)		21	37	36	35	68			
Explosion proof sign	Domestic explosion-proof mark	Ex db eb ib pxb IIC T5 Gb/Ex ib pxb tb IIIC T95°C Db		Ex db eb ib pxb IIC T5 Gb/Ex ib pxb tb IIIC T95°C Db		Ex db eb ib pxb IIC T5 Gb/Ex ib pxb tb IIIC T95°C Db		Ex db eb ib pxb IIC T5 Gb/Ex ib pxb tb IIIC T95°C Db	
	European Explosion proof Mark	Ex II 2G Ex db pxb IIC T4 Gb		Ex II 2G Ex db pxb IIC T4 Gb		Ex II 2G Ex db pxb IIC T4 Gb		Ex II 2G Ex db pxb IIC T4 Gb	
Joint motion parameters		Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed
The first joint axis-J1		±360°	210°/s	±360°	150°/s	±360°	150°/s	±360°	180°/s
The second joint axis-J2		±360°	210°/s	±360°	150°/s	±360°	150°/s	±360°	180°/s
The third joint axis-J3		±165°	210°/s	±165°	210°/s	±165°	210°/s	±165°	210°/s
The fourth joint axis-J4		±360°	360°/s	±360°	240°/s	±360°	240°/s	±360°	270°/s
The fifth joint axis-J5		±360°	360°/s	±360°	240°/s	±360°	240°/s	±360°	270°/s
The sixth joint axis-J6		±360°	360°/s	±360°	240°/s	±360°	240°/s	±360°	270°/s

X series extreme temperature version collaborative robot

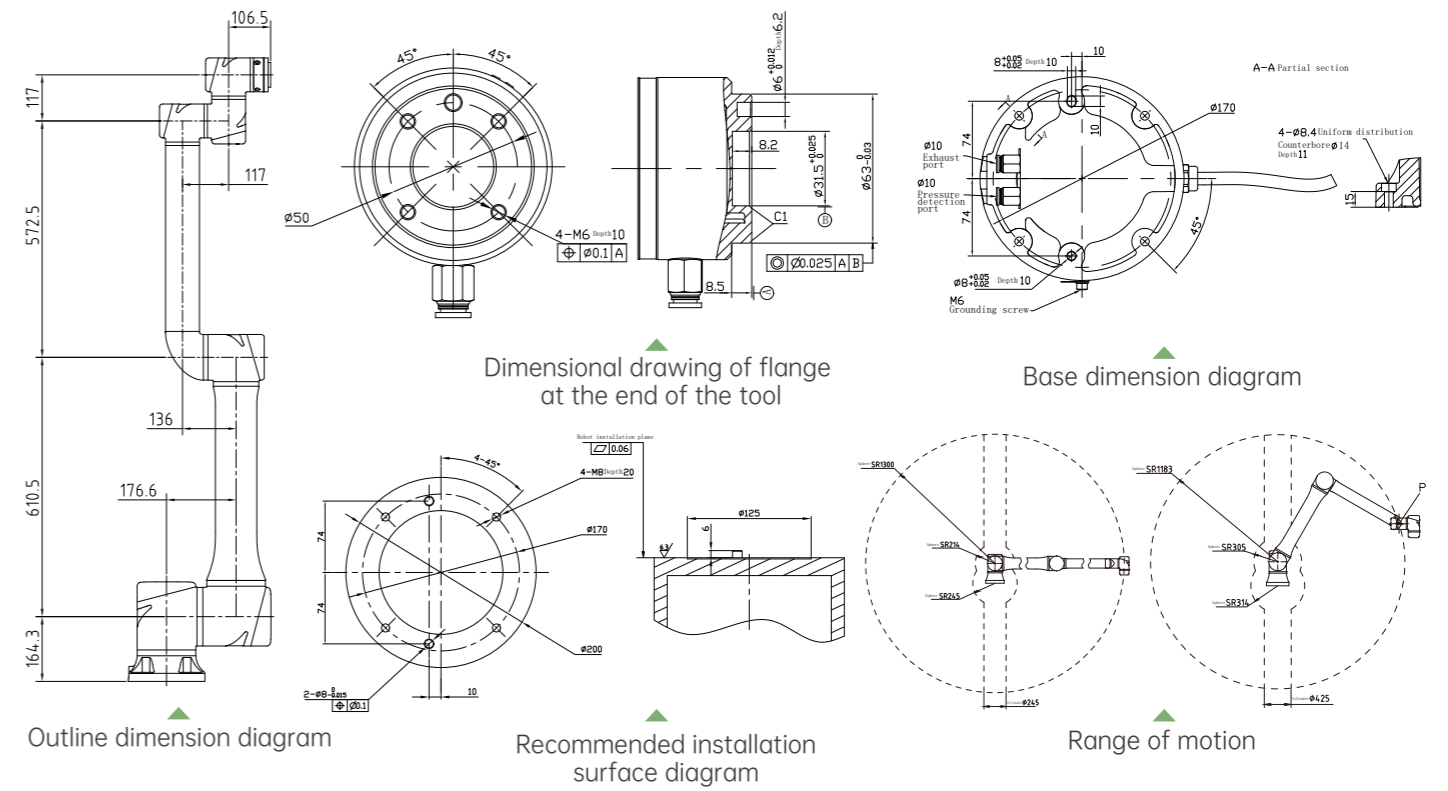


Robot arm model		AL6		AL9		AL12	
Degrees of freedom		6		6		6	
Rated load (kg)		6		9		12	
Maximum working radius (mm)		924		1500		1300	
Repeatability (mm)		± 0.02		± 0.05		± 0.03	
Control bus/frequency		EtherCAT/1KHz		EtherCAT/1KHz		EtherCAT/1KHz	
Maximum speed of the tool end (m/s)		3		3		3	
Noise(dB)		≤60		≤60		≤60	
Rated power (W)		260		550		550	
Ambient temperature(°C)		-30~80		-30~80		-30~80	
Working environment humidity		5%~90%RH, No condensation		5%~90%RH, No condensation		5%~90%RH, No condensation	
Installation method		Any angle		Any angle		Any angle	
Protection grade		IP68		IP68		IP68	
Weight(kg)(Excluding cables)		21		37		36	
Tool port	I/O Port	1-24V/1APower; 2-DI; 2-DO; 2-AI		1-24V/1APower; 2-DI; 2-DO; 2-AI		1-24V/1APower; 2-DI; 2-DO; 2-AI	
	COM Port	1-24V/1APower; 1-RS485; 1-EtherCAT		1-24V/1APower; 1-RS485; 1-EtherCAT		1-24V/1APower; 1-RS485; 1-EtherCAT	
Joint motion parameters		Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed	Maximum range of motion	Maximum speed
The first joint axis-J1		±360°	210°/s	±360°	150°/s	±360°	150°/s
The second joint axis-J2		±360°	210°/s	±360°	150°/s	±360°	150°/s
The third joint axis-J3		±165°	210°/s	±165°	210°/s	±165°	210°/s
The fourth joint axis-J4		±360°	360°/s	±360°	240°/s	±360°	240°/s
The fifth joint axis-J5		±360°	360°/s	±360°	240°/s	±360°	240°/s
The sixth joint axis-J6		±360°	360°/s	±360°	240°/s	±360°	240°/s

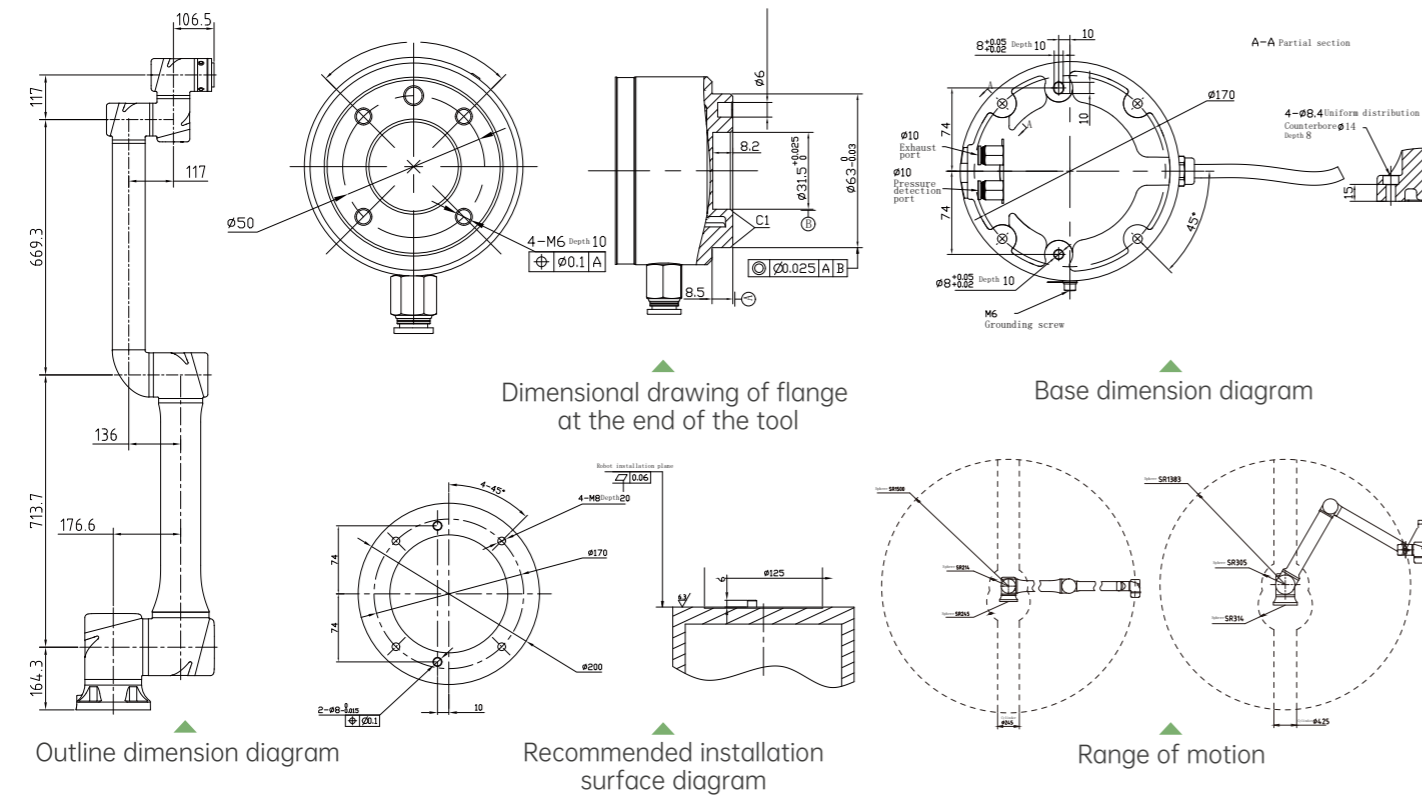
XR6 Dimension



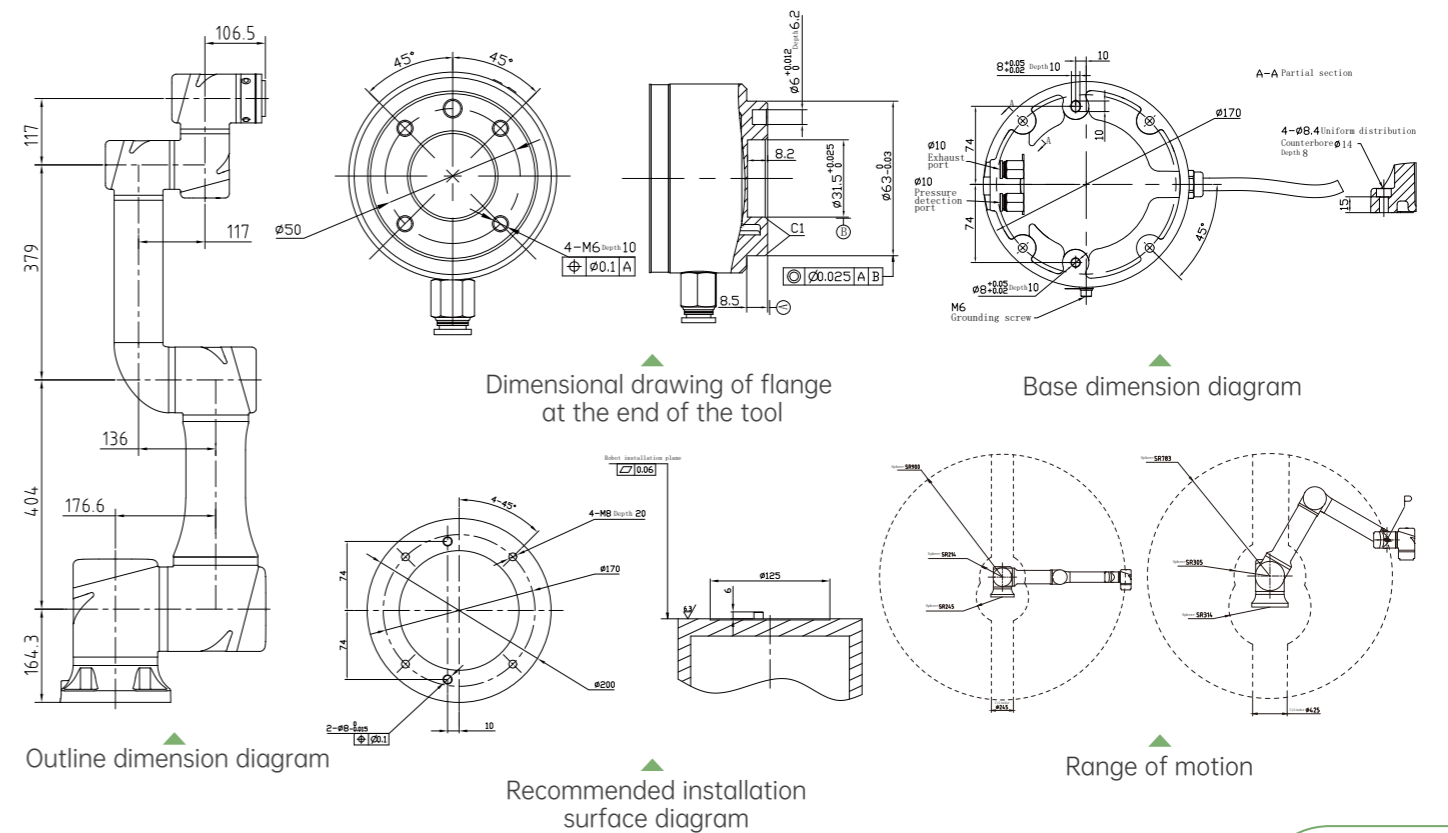
XR12 Dimension



XR9 Dimension



XR18 Dimension



MK-Controller-MK-302S-W



Small size, light weight, flexible deployment

Rich software and hardware interfaces, easy to expand functions, and extremely cost-effective

Specification parameters					
External dimensions	235mm*177mm*47mm (L*H*W)				
Weight	1.75kg				
Panel communication interface	Highway	EtherNet*2:Support TCP/IP Modbus-TCP agreement			
		RS485*2, Support custom protocols、Modbus-RTU/ASCII agreement			
	Others	EtherCAT * 1			
		Emergency stop input	1	Safely stop input	1
		Remote boot input	1	Remote shutdown input	1
Configurable digital input	8	Configurable digital output	8		
Differential encoder input	1 (Provide 5V/150mA power supply)				
Power	Matching power box				
Protection grade	IP44				
Ambient Temperature	-5°C~55°C				
Working Humidity	5%-90%RH, No condensation				

Control cabinet-K20-002S-W

Hard real-time operating system, high-speed EtherCAT bus Microsecond level peripheral response speed

Accurate dynamic model identification
Smooth transition algorithm for trajectory control with acceleration and dynamic trajectory change
Extended additional axis linkage control



Specification parameters					
External dimensions	429mm*437mm*190mm (L*H*W)				
Weight	13.6kg				
External communication interface of the panel	EtherNet*2, 10/100M adaptive SupportModbus TCPCommunication protocol				
Internal communication interface of cabinet	Highway	RS232*1, Support customization or Modbus RTU/ASCII agreement			
		RS485*2, Support customization or Modbus RTU/ASCII agreement			
		Interface*1, 100M Network interface, Supports EtherCAT devices			
	Others	Emergency stop input	2	Safely stop input	2
		Remote boot input	1	Remote shutdown input	1
		Digital input	8	Digital output	8
		Configurable digital input	8	Configurable digital output	8
		Analog input	3	Analog output	1
Differential encoder input	2 (Provide 5V/150mA power supply)				
Power	AC 200V~240V, 50-60Hz (±5%)				
Protection grade	IP44				
Ambient Temperature	-5°C~55°C				
Working Humidity	5%-90%RH, No condensation				

Explosion proof electrical control cabinet



High protection level explosion-proof light alarm

Rich external expansion interfaces suitable for gas and dust explosion-proof environments in Zone I and Zone II

Specification parameters					
External dimensions	550mm*400mm*1600mm (L*H*W)				
Weight	283kg				
Controller communication interface	Highway	EtherNet*2, Supports TCP/IP Modbus TCP protocol			
		RS232*1, Support custom protocols、Modbus-RTU/ASCII protocols			
		RS485*2, Support custom protocols、Modbus-RTU/ASCII protocols			
	Others	EtherCAT * 1			
		Emergency stop input	1	Safely stop input	1
		Remote boot input	1	Remote shutdown input	1
		Digital input	8	Digital output	8
		Configurable digital input	8	Configurable digital output	8
Analog input	3	Analog output	1		
Differential encoder input	2 (Provide 5V/150mA power supply)				
Power	AC 200V~240V, 50-60Hz (±5%)				
Protection grade	IP65				
Ambient Temperature	-5°C~55°C				
Working Humidity	5%-90%RH, No condensation				

High protection level positive pressure explosion-proof with small volume and easy deployment

Rich external expansion interfaces suitable for gas and dust explosion-proof environments in Zone I and Zone II



Specification parameters					
External dimensions	830mm*450mm*350mm (L*H*W)				
Weight	55kg				
Controller communication interface	Highway	EtherNet*2, Supports TCP/IP Modbus TCP protocol			
		RS485*2, Support custom protocols、Modbus-RTU/ASCII protocols			
		EtherCAT * 1			
	Others	Emergency stop input	1	Safely stop input	1
		Remote boot input	1	Remote shutdown input	1
		Configurable digital input	8	Configurable digital output	8
		Differential encoder input	2 (Provide 5V/150mA power supply)		
		Power	AC 200V~240V, 50-60Hz (±5%)		
Protection grade	IP65				
Ambient Temperature	-5°C~55°C				
Working Humidity	5%-90%RH, No condensation				

CGXi-Teach Pendant

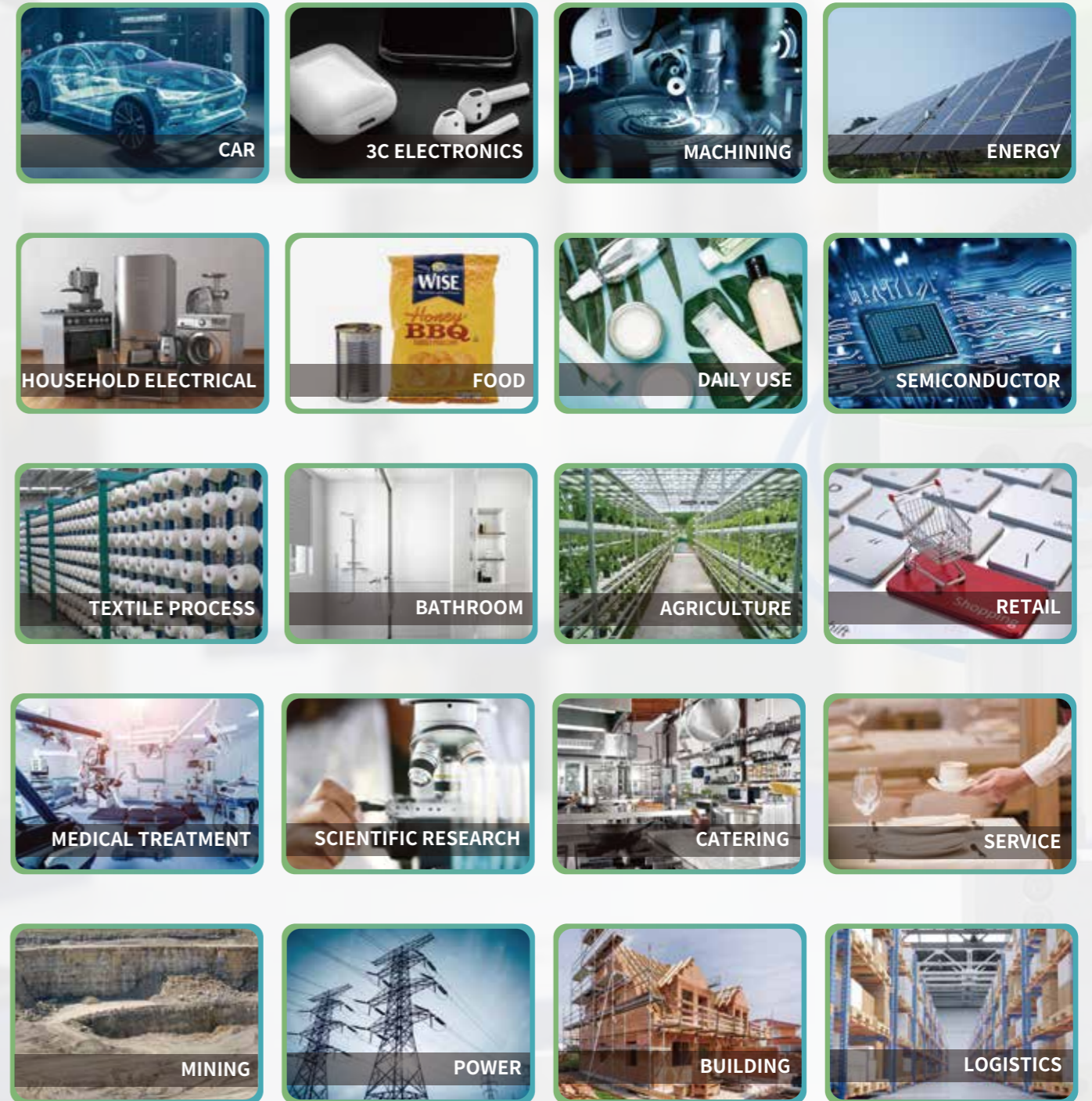


Specification parameters	
External dimensions	289mm*256mm (L*W)
Weight	1.5kg
Length	5m
Protection grade	IP44
Ambient Temperature	-5°C~55°C
Working environment humidity	5%-90%RH, No condensation

ECOLOGICAL PARTNERS



APPLICATION INDUSTRY



APPLICATION SCENARIO



Screw lock attachment



Pull rivet



Hot forging spray



Gluing



Deburring



Loading and unloading



Welding



Material sorting



Palletizing



Labeling



Flexible assembly



Intelligent surgical light



Composite robot



Wheel hub powder coating



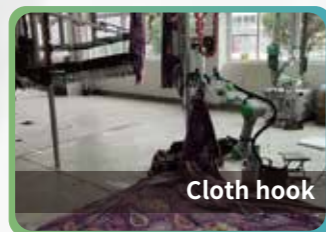
Turbine visual defect detection



Coffee robot



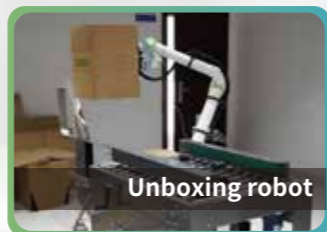
Three proof paint spraying



Cloth hook



Wood polishing



Unboxing robot

Application Cases

AUTOMOTIVE AND 3C SECTORS

SCREW LOCK PAYMENT

High speed, high precision, high stability

The tightening cycle is 1.4 seconds per piece, and the daily production of a single machine can exceed 10000 pieces, with a failure rate of <math><0.05\%</math>.

Model: G6 Collaborative Robot

- Screw model: M 1 ~ M 6
- Nail delivery method: suction nail or blow nail
- Locking angle: any angle
- Production process: Defect detection alarm, recording of tightening force and other process data, uploading to the cloud
- Suitable fields: 3C or home appliances

Scan the code to watch case videos



Robot spraying worker at car 4S store

Intelligent upgrade tool for automotive after-sales service market

Model: G12 Collaborative Robot

- Simulate the actual manual painting process and techniques through the AI algorithm, fully automated dynamic sheet metal spraying operation
- High flexibility to quickly adjust parameters according to different vehicle models and spraying requirements adjustment and path planning
- Suitable fields: automotive, metal processing

Scan the code to watch case videos



Precision Welder Mobile Welding Robot

Welding is as simple as playing with a phone

Model: G6 Collaborative Robot

- Proficient in flat welding, vertical welding, corner welding, fillet welding, intermittent welding, spot welding, and breakpoint continuation welding.
- No welding experience is required to get started, simply drag and drop to complete welding tasks
- Suitable fields: ships, steel structures, metal processing

Scan the code to watch case videos



Car wheel hub powder coating

Model: G6 Collaborative Robot

- Ordinary workers can also quickly get started, greatly reducing the difficulty of debugging and deployment
- Joint ecological partners provide spray application packages, and customers can configure parameters as needed
- Suitable fields: automotive, mechanical processing, home appliances

Drag teaching, track reproduction



Turbine visual defect detection

Model: G6 Collaborative Robot

- Collaborative robots drive cameras and control shooting angles
- Perform point by point testing on the area to be tested
- Real time image analysis based on algorithm libraries
- Suitable fields: automotive, mechanical manufacturing

Automatic detection, efficient and stable



High speed sand core polishing

Model: G6 Collaborative Robot

- Equipped with EtherCAT communication, the seven axis linkage control positioner does not require an external PLC
- Foolish operation, one set of equipment is suitable for polishing multiple sand cores
- Suitable fields: automotive, mechanical processing

Fast, stable, and highly accurate



AI Visual Inspection Workstation

Model: G6 Collaborative Robot

- AI visual appearance detection based on deep learning
- Sales delivery is short, smooth, and fast, supporting fast algorithm validation
- Suitable fields: automotive, 3C electronics

Light deployment, fast delivery



Machining

1-on-3 machine tool loading and unloading

Flexible material rack, fast switching production

Model: G6、G12 Collaborative Robot

- Based on flexible material rack 3D visual loading assistance, there is no need for complex material flow lines
- Quickly replace the gripper to adapt to various materials
- Suitable fields: automotive, mechanical processing



Hot forging spray

Model: G6 Collaborative Robot

- High and low temperature impact, spray release agent during 1200 °C hot forging process
 - Strong electromagnetic and voltage pulsation interference, frequent start stop of 40kw high current medium frequency heating machine
 - The actual load is 7 kg, exceeding the rated load
- Suitable fields: spraying, mechanical processing

Extremely harsh working environment



Double arm riveting

Model: G6 Collaborative Robot

- The average speed of riveting can reach 1.8 seconds per piece, and the success rate of riveting process is as high as 99.5%
- One click switching, compatible with multiple product riveting production processes
- Suitable fields: 3C electronics, mechanical processing, home appliances

Automatic rivets, efficient and stable



Three proof paint spraying

The flexibility of spraying far exceeds that of traditional three-axis mechanisms

Model: G6 Collaborative Robot

- Compact structure, flexible movement, and effortless operation in narrow enclosed spaces
- Breaking through the problem of limited motion space in traditional three-axis mechanism solutions
- Suitable fields: 3C electronics, automotive, mechanical processing

Scan the code to watch case videos



Welding workstation

Model: G6 Collaborative Robot

- Maintain the same posture, teach with three points, complete 360° arc welding, and improve welding efficiency
- Suitable fields: Welding of small batch and multi variety components for household appliances

Faster light, more skillful hands

Scan the code to watch case videos



Wireless non programming spray coating

Model: G12 Collaborative Robot

- The spraying trajectory can be taught through VR, which greatly reduces the operating threshold without programming
- Grating automatic recognition of incoming workpiece types, suitable for small batch and multi variety production
- Suitable fields: automotive, mechanical processing

Ordinary workers can use it

Scan the code to watch case videos



Straight seam welding of air conditioning condensation tank

Model: G6 Collaborative Robot

- Visual perception feature recognition algorithm to achieve autonomous recognition and offset correction of weld seams, Ensure welding quality
- Compatible with multiple workpiece specifications to meet diverse production needs, even novices can operate welding, Pick up the robot
- Suitable fields: welding, metal processing

Smooth operation and precise trajectory

Scan the code to watch case videos



Other fields

Fine carving machine loading and unloading

Flexibility and ease within a spherical space

Model: G4 Collaborative Robot

- Repeated positioning accuracy of 2 threads, stable loading and unloading
- The robot end integrates grasping, detection, compression, and air blowing systems
- Suitable field: Precision carving machine

Scan the code to watch case videos



Loading and unloading of lifting robots

Flexible installation, lightweight and reliable

Model: G6 Collaborative Robot

- Solved the problems of limited space and restricted personnel activities, while also improving production, Assembly efficiency
- Installation, debugging, and operation can be completed within 2 hours
- Applicable fields: scenes with strict land occupation requirements for loading and unloading materials

Scan the code to watch case videos



Fully automatic assembly machine for rubber hoses

Double arm collaboration in a narrow space of "formal attire+inversion"

Model: G6 Collaborative Robot

- The robot can move freely in a spherical space, whether it is in a formal or inverted position, It can be easily deployed
- Efficient assembly with dual arm cooperation, high flexibility, compatible with different hoses and joints model
- Applicable fields: 3C electronics, precision machining

Scan the code to watch case videos



Chip packaging visual feeding machine

Model: G6 Collaborative Robot

- The work cycle time is 2.1 seconds, the production efficiency is improved by 100%, and the cost is recovered in six months
- Suitable fields: semiconductors, chips

Scan the code to watch case videos



High speed, high precision



Stacking workstation

0 code design, 10 minutes to switch production

Model: G12 Collaborative Robot

- Built in palletizing process package, easy to operate
- Flexible installation, capable of lifting and matching columns and lifting shafts
- Suitable fields: logistics and warehousing, beauty and daily necessities

Scan the code to watch case videos



Intelligent surgical shadowless lamp

Model: G6 Collaborative Robot

- Intelligent voice control, automatic adjustment of light source height and focus point
- High rigidity, has passed the second-class certification test for medical devices in Jiangsu Province
- Suitable field: Medical devices

Scan the code to watch case videos



Strong rigidity, low noise and no radiation



Cloth hook

Model: G6 Collaborative Robot

- The gripper design, combined with flexible force control, breaks through the technical bottleneck of difficult fabric grasping
- Suitable for small-scale and multi variety production, helping customers upgrade their fabric hanging systems
- Suitable field: Textile

Easy to operate and more user-friendly

Scan the code to watch case videos



Intelligent wearable device testing machine

Model: G6 Collaborative Robot

- 1 robot for loading and unloading 4 airtight special machines
- The production cycle has been increased from the maximum speed of 12 seconds by our competitors to 9 seconds, resulting in a significant improvement in production efficiency
- The pre project testing ran for 2000 hours without any faults and passed the acceptance smoothly
- Suitable fields: 3C, precision device loading and unloading

High speed, high precision

Scan the code to watch case videos



Coffee Robot

Model: G3 Collaborative Robot

- No personnel are required to be on duty
- Upload pictures or handwritten signatures to increase interactive fun
- Suitable fields: New retail, catering

No one is guarding, the pattern is embroidered

Scan the code to watch case videos



AI robot scientist

Model: G3 Collaborative Robot

- Handing over the biochemical laboratory work to robots for automated and batch production of samples handle
- The G6 has only 1/4 the power of traditional industrial robots and a longer battery life
- Suitable fields: Biochemical laboratory, scientific research

AGV composite robot, intelligent and capable

Scan the code to watch case videos



Screen printing machine cutting workstation

Model: G4 Collaborative Robot

- Replacing traditional manual labor to complete tasks such as substrate cutting and fixed-point handling, with high efficiency increase by 30%
- During the screen printing process, the collaborative robot is interlocked with the screen printing machine signal, ensuring safety and peace of mind
- Suitable field: Screen printing machine

One click start, a good partner for screen printing machines

Scan the code to watch case videos



6-in-1 Education Practice Platform

Model: G6 Collaborative Robot

- Typical applications include robot handling, palletizing, sorting, polishing, and assembly using scenarios
- Integrating multidisciplinary expertise in mechanical, electrical, software programming, communication, and other fields, including the robot body and integrated systems
- Suitable fields: university laboratories, training institutions

Using collaborative robots as the core teaching and training tools

Scan the code to watch case videos



Loading and unloading of textile printing machine

Model: G6 Collaborative Robot

- Professional gripper design combined with flexible force control has broken through the technical bottleneck of difficult grasping of easily damaged fabrics
- One machine with multiple uses, capable of gripping fabrics of different sizes and thicknesses
- Suitable field: Textile

Going to Japan to solve the problem of flexible loading and unloading of textiles

Scan the code to watch case videos



Noodle making robot

Model: G6 Collaborative Robot

- Complete the entire process of picking and cooking noodles in one go
- Stable product taste, increased personalized service, and improved service quality
- Suitable fields: catering, new retail

Unmanned noodle shops a new trend in catering

Scan the code to watch case videos



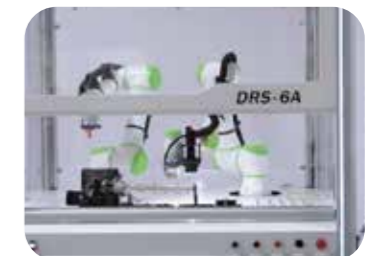
Wax Model Tree Workstation

Model: G6 Collaborative Robot

- Replacing traditional manual tree grouping methods significantly improves tree grouping efficiency
- Effectively improve welding consistency and meet customers' high-quality production needs
- Suitable field: precision casting

Dual arm collaboration intelligent and flexible

Scan the code to watch case videos



Cooperative Partner



OUR SERVICES



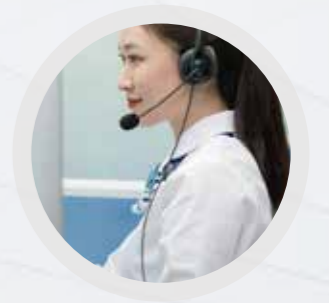
Training Services

- Robotics
- Industry case sharing
- Online/offline seminars



Integration Services

- Risk assessment of the plan
- On site assistance in implementation
- Regular follow-up satisfaction



After-sale Service

- Lifetime maintenance
- 24-hour response
- Free software upgrade



NOURISH THE WORLD
VIRTUE DOES NOT LEAVE