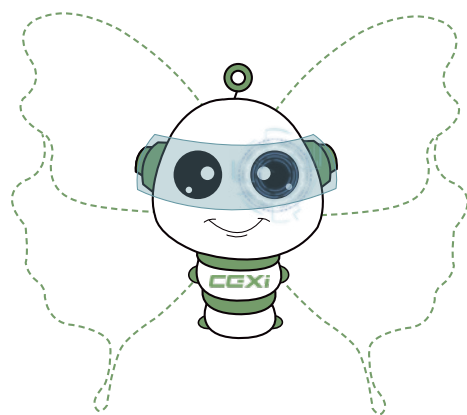




A SIMPLER COLLABORATIVE ROBOT THAN PLC

Changguangxi Intelligent Manufacturing (Wuxi) Co., Ltd.

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WeChat Official Account



Tik tok Comprehensive Account



Mini Program of Cases



Tik tok Official Account

**CEXi**  
长广溪智造



**New Generation Automotive-grade  
High-speed Collaborative Robot**

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VALUES

NOURISH THE WORLD, VIRTUE DOES NOT LEAVE

VISION

GATHER BY CGXi, SMART BIG FUTURE

MISSION

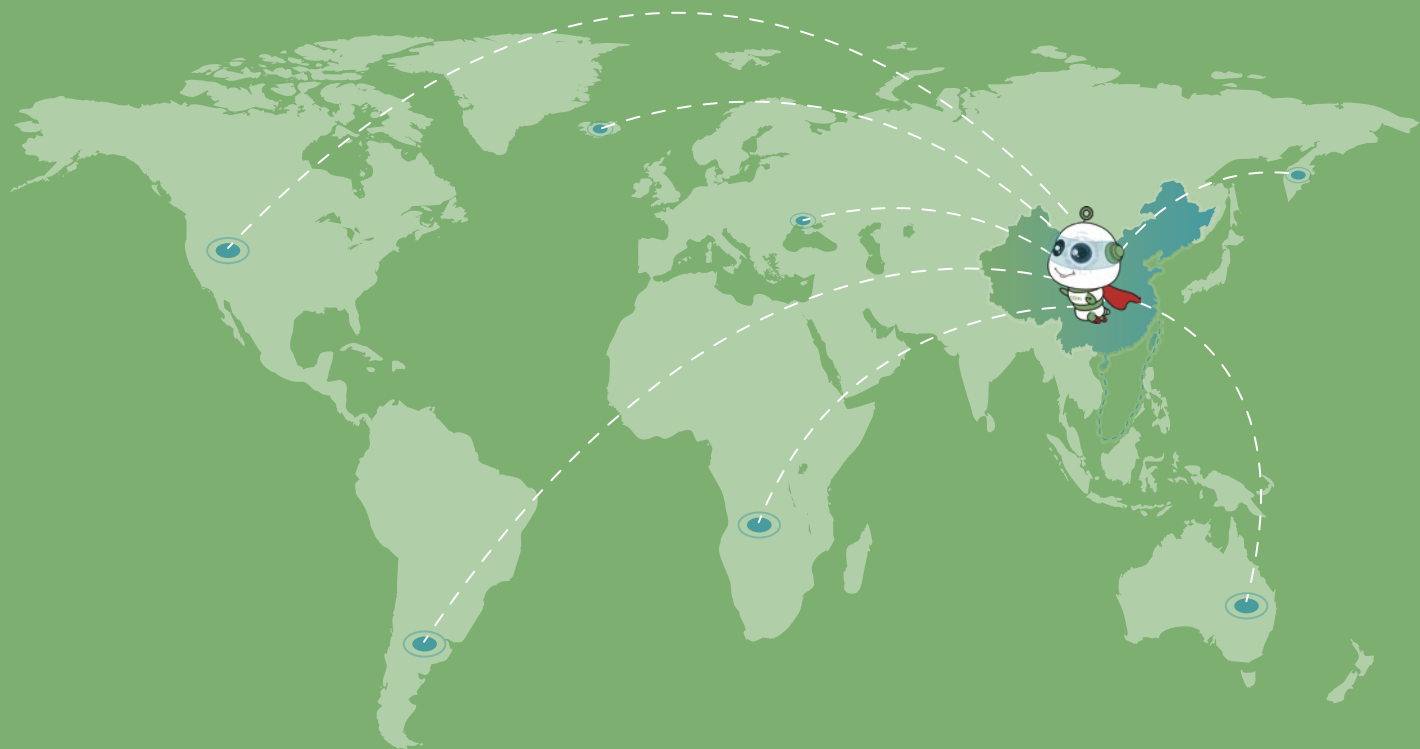
SMART CHINA AND THE WORLD

As a scientific and technological enterprise cored by flexible intelligent robot and focused on forging digital and intelligent manufacturing equipment, Changguangxi Intelligent Manufacturing (Wuxi) Co., Ltd. (the Company) was founded in 2018, with registered capital up to RMB 91,168,000, headquartered at the beautiful Changguangxi River in Wuxi and has R&D and operation center respectively in Beijing and Shenzhen. Its core R&D teams are from the 985/211 colleges and universities, including Tsinghua University, University of Science and Technology of China, Harbin Institute of Technology, Xi'an Jiaotong University, Northwestern Polytechnic University and Jiangnan University.

Our team consists of elites from domestic automation, robot, automobile, communication, 3C digital and internet industry and have over 10 years of rich experience in terms of servo motor, drive system, controller, motion control algorithm, design and quality control of automobile parts and digital information management.

By redefining the new generation automobile-grade high-speed collaborative robot, innovatively applying the robot technology in the intelligent cockpit of new energy automobile, the Company becomes the first supplier of intelligent automobile parts and thoroughly changes the man-vehicle interaction mode. As the pioneer of automobile-grade “industrial control + process” intelligent manufacturing, the Company has formed three product matrixes of “Automobile intelligent parts, collaborative robots and intelligent platform”, in order to promote the rapid development of intelligent manufacturing industry based on the intelligent motion control technology.

Facing the wave of the fourth industrial revolution, the Company has active participation in the great mission of “Smart China and the world” by adhering to the enterprise value of “Nourish the world, virtue does not leave”. It insists on the innovation path of independent R&D, get deeply rotted in manufacturing industry based on the advanced productivity, and devotes itself in rewriting the new industry civilization that belongs to the Chinese! Harboring the good vision of “Gather by CGXi, smart big future”, we expect to celebrate the great achievements of the era together with you!



## ■ Product Highlights

1

### Fast, Stable and Accurate – Benchmarking Industrial Robots

High speed, accuracy, rigidity, flexibility and intelligence

2

### Protection Design with Higher Safety and Meticulosity

Pioneering Xi-black box in industry, data recorder at fault site  
Self-monitoring of over 100 safety functions, Grade 100 protection against collision  
Innovative power-off protection technology, reliable shutdown when robot cable is cut off

3

### Lighter and Easier User Interaction

Dead weight load is below 4  
The tool is fitted with tri-color light, 2-way function button and 2-way bus interface

4

### Build Ecological Network with Higher Wisdom

Support wired/wireless/4G/5G/ communication network, intelligent access to MES and industrial network

5

### Application Techniques Closer to Scenarios

2D, 3D vision, integrated with force sensor  
Support mainstream PLC, servo systems and CNC machine tools on market  
Linked with external additional shaft (EtherCAT bus), tracking and synchronization of transmission belt

6

### Quality Control Standard of Automobile Industry

Stable and reliable running in complex environment, long service life  
The manufacturing system conforms to the requirements of IATF16949:2016 International Quality Management Standard of Automobile

## C Series Collaborative Robot – CR3 Mechanical Arm

## Product Features

**Service field oriented, high cost performance, flexible deployment**

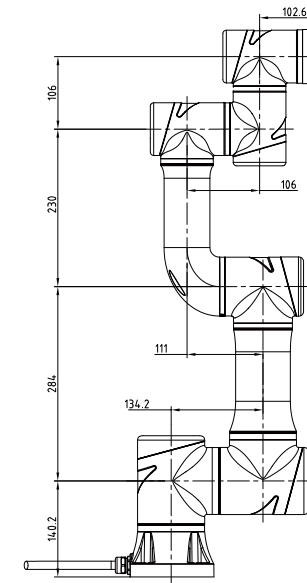
Rated load 3kg, working radius 620mm, tool end speed 1m/s  
CR authentication, CE authentication, SEMI S2 authentication,  
NRTL authentication



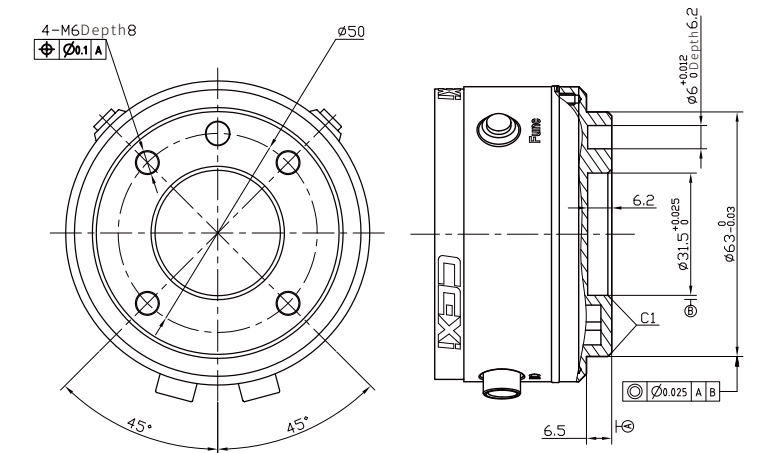
## Specifications

|                       |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | CR3 mechanical arm                                      |
| Model                 |                 | C3                                                      |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 3kg                                                     |
| Max. working radius   |                 | 620mm                                                   |
| Repeatability         |                 | ± 0.03mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 1m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 180°/s                                                  |
|                       | Joint 2 axis-J2 | 180°/s                                                  |
|                       | Joint 3 axis-J3 | 180°/s                                                  |
|                       | Joint 4 axis-J4 | 180°/s                                                  |
|                       | Joint 5 axis-J5 | 180°/s                                                  |
|                       | Joint 6 axis-J6 | 180°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                   |
|                       | Joint 2 axis-J2 | ±360°                                                   |
|                       | Joint 3 axis-J3 | ±165°                                                   |
|                       | Joint 4 axis-J4 | ±360°                                                   |
|                       | Joint 5 axis-J5 | ±360°                                                   |
|                       | Joint 6 axis-J6 | ±360°                                                   |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 150W                                                    |
| Ambient temperature   |                 | -5℃-55℃                                                 |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP66                                                    |
| Weight                |                 | 15kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

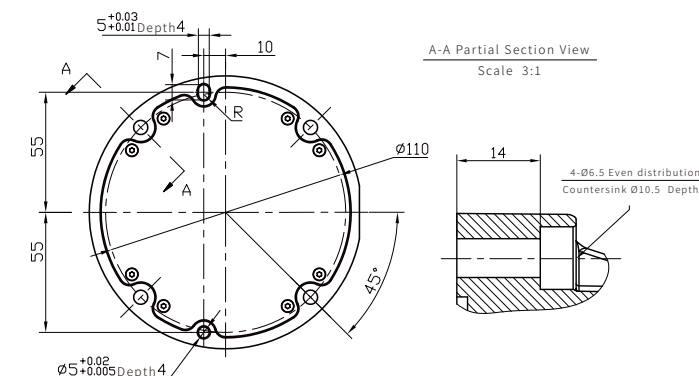
## Outline Drawing



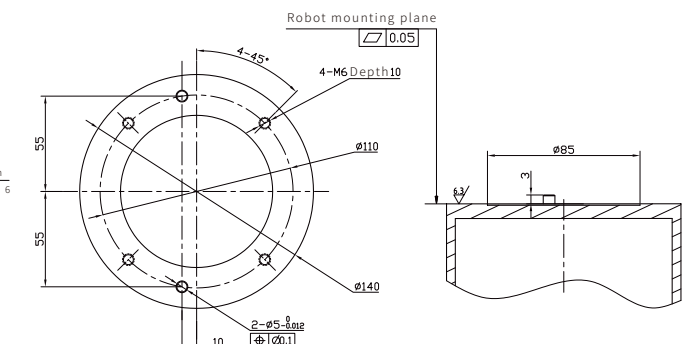
### Dimension Drawing of Tool End Flange



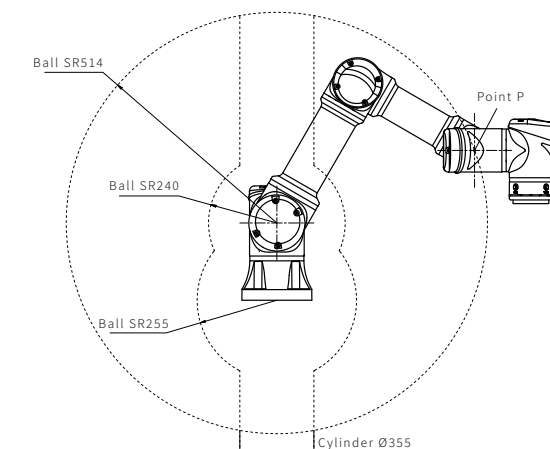
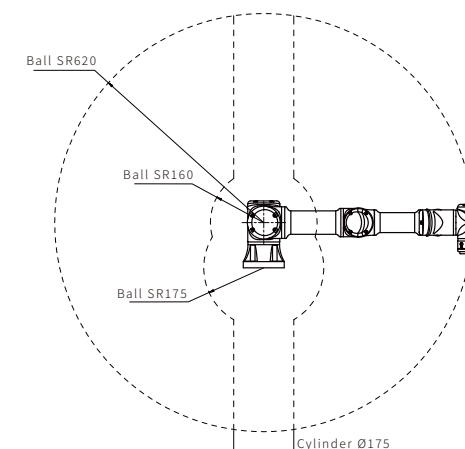
### Base Dimension Drawing



### Drawing of Recommended Installation Plane



### Motion Range



# C Series Collaborative Robot – CR6 Mechanical Arm

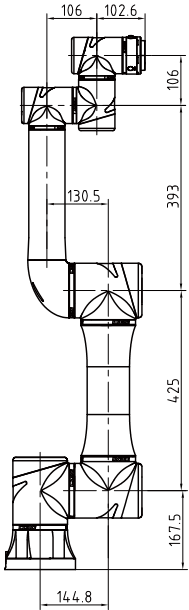
## Product Features

**Service field oriented, high cost performance, flexible deployment**  
Rated load 6kg, working radius 924mm, tool end speed 2m/s  
CR authentication, CE authentication, SEMI S2 authentication, NRTL authentication

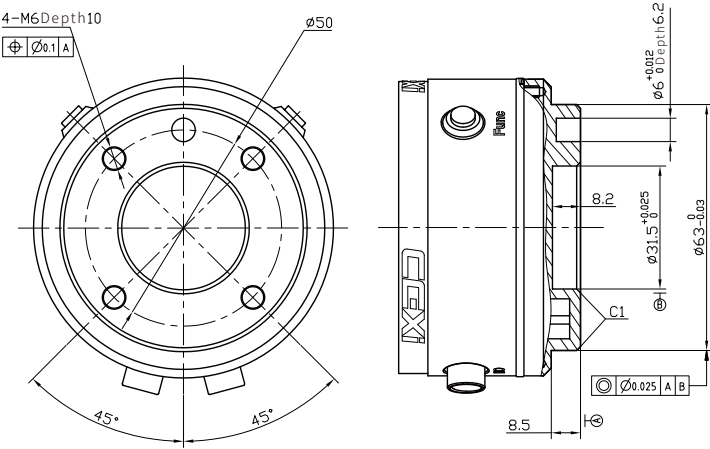


| Specifications        |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | CR6 mechanical arm                                      |
| Model                 |                 | C6                                                      |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 6kg                                                     |
| Max. working radius   |                 | 924mm                                                   |
| Repeatability         |                 | ± 0.03mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 2m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 180°/s                                                  |
|                       | Joint 2 axis-J2 | 180°/s                                                  |
|                       | Joint 3 axis-J3 | 180°/s                                                  |
|                       | Joint 4 axis-J4 | 180°/s                                                  |
|                       | Joint 5 axis-J5 | 180°/s                                                  |
|                       | Joint 6 axis-J6 | 180°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                   |
|                       | Joint 2 axis-J2 | ±360°                                                   |
|                       | Joint 3 axis-J3 | ±165°                                                   |
|                       | Joint 4 axis-J4 | ±360°                                                   |
|                       | Joint 5 axis-J5 | ±360°                                                   |
|                       | Joint 6 axis-J6 | ±360°                                                   |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 200W                                                    |
| Ambient temperature   |                 | -5°C-55°C                                               |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP66                                                    |
| Weight                |                 | 21kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

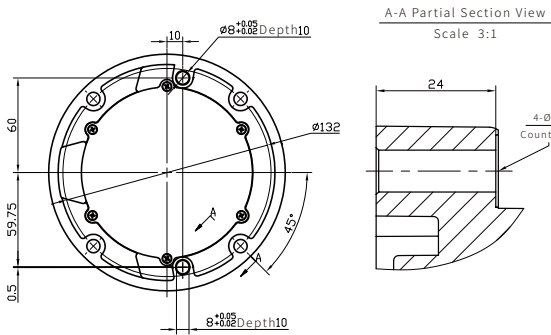
Outline Drawing



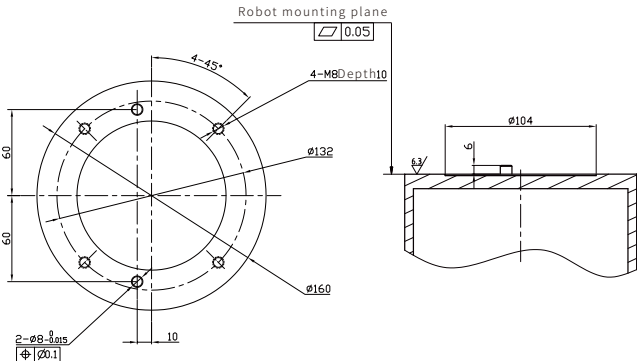
Dimension Drawing of Tool End Flange



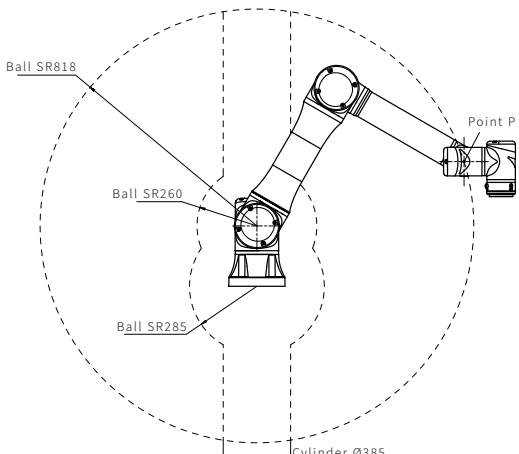
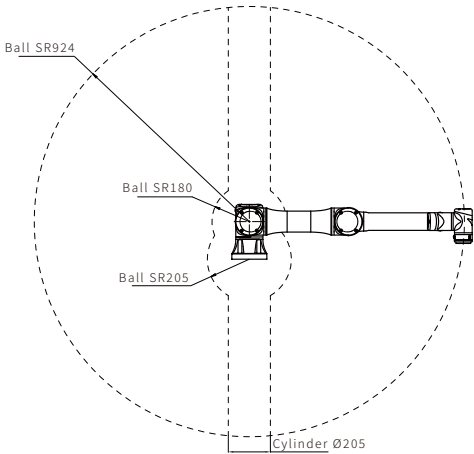
Base Dimension Drawing



Drawing of Recommended Installation Plane



Motion Range



## G Series Collaborative Robot – R3 Mechanical Arm

## Product Features

**High speed, high accuracy, compact structure, man-machine collaboration**

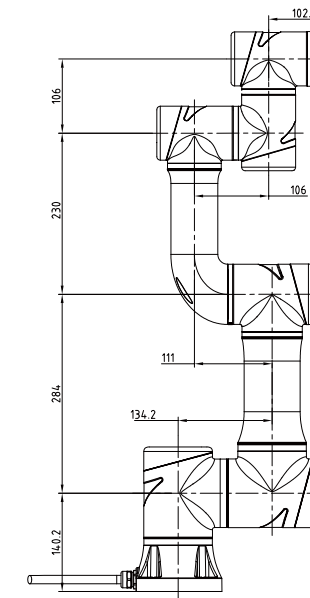
Rated load 3kg, working radius 620mm, tool end speed 2m/s  
CR authentication, CE authentication, SEMI S2 authentication,  
NRTL authentication



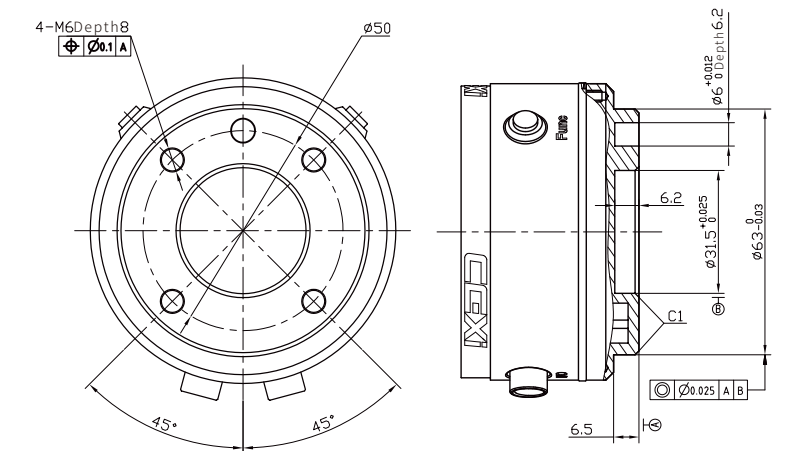
## Specifications

|                       |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | R3 mechanical arm                                       |
| Model                 |                 | R3                                                      |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 3kg                                                     |
| Max. working radius   |                 | 620mm                                                   |
| Repeatability         |                 | ± 0.02mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 2m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 220°/s                                                  |
|                       | Joint 2 axis-J2 | 220°/s                                                  |
|                       | Joint 3 axis-J3 | 240°/s                                                  |
|                       | Joint 4 axis-J4 | 360°/s                                                  |
|                       | Joint 5 axis-J5 | 360°/s                                                  |
|                       | Joint 6 axis-J6 | 360°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ± 360°                                                  |
|                       | Joint 2 axis-J2 | ± 360°                                                  |
|                       | Joint 3 axis-J3 | ± 165°                                                  |
|                       | Joint 4 axis-J4 | ± 360°                                                  |
|                       | Joint 5 axis-J5 | ± 360°                                                  |
|                       | Joint 6 axis-J6 | ± 360°                                                  |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 150W                                                    |
| Ambient temperature   |                 | -5℃-55℃                                                 |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP65                                                    |
| Weight                |                 | 15kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

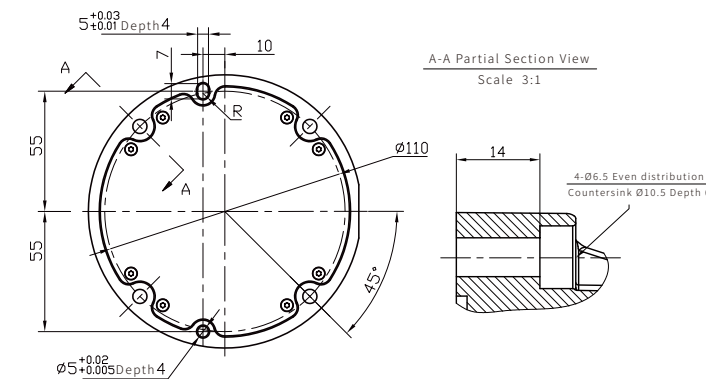
## Outline Drawing



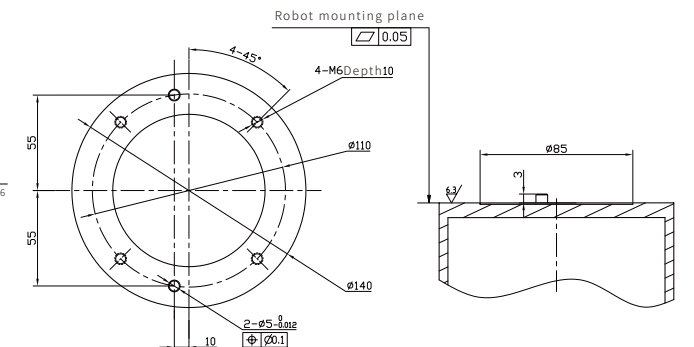
### Dimension Drawing of Tool End Flange



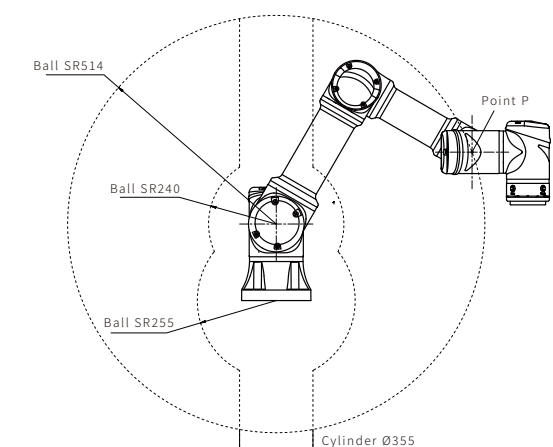
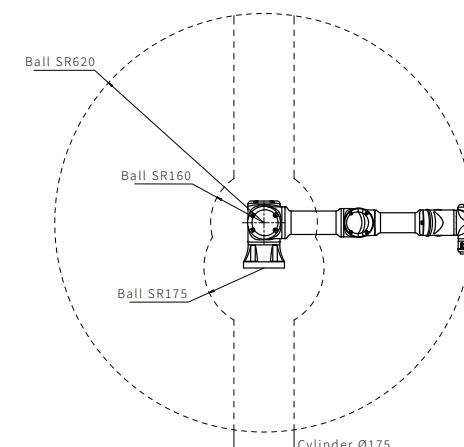
### Base Dimension Drawing



### Drawing of Recommended Installation Plane



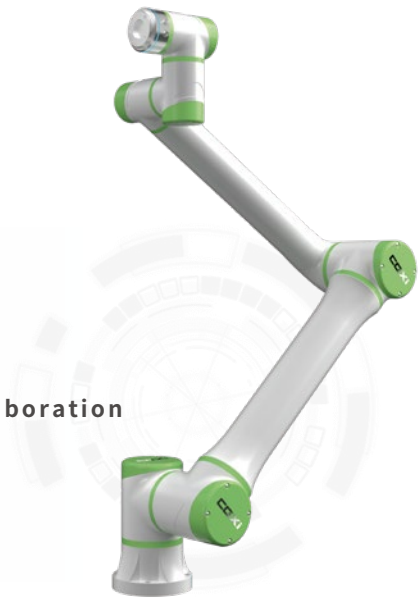
### Motion Range



# G Series Collaborative Robot – R4 Mechanical Arm

## Product Features

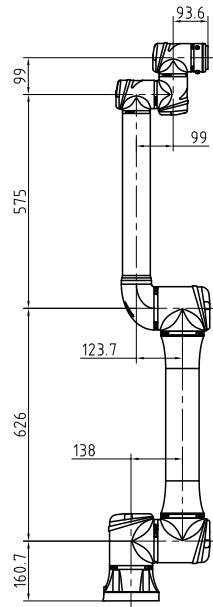
**High speed, high accuracy, compact structure, man-machine collaboration**  
Rated load 4kg, working radius 1300mm, tool end speed 3m/s  
CR authentication, CE authentication, SEMI S2 authentication, NRTL authentication



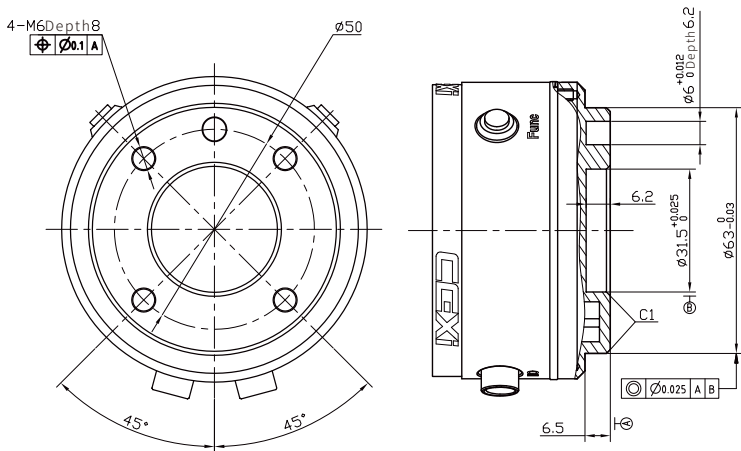
### Specifications

|                       |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | R4 mechanical arm                                       |
| Model                 |                 | R4                                                      |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 4kg                                                     |
| Max. working radius   |                 | 1300mm                                                  |
| Repeatability         |                 | ± 0.05mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 3m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 210°/s                                                  |
|                       | Joint 2 axis-J2 | 210°/s                                                  |
|                       | Joint 3 axis-J3 | 210°/s                                                  |
|                       | Joint 4 axis-J4 | 360°/s                                                  |
|                       | Joint 5 axis-J5 | 360°/s                                                  |
|                       | Joint 6 axis-J6 | 360°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                   |
|                       | Joint 2 axis-J2 | ±360°                                                   |
|                       | Joint 3 axis-J3 | ±165°                                                   |
|                       | Joint 4 axis-J4 | ±360°                                                   |
|                       | Joint 5 axis-J5 | ±360°                                                   |
|                       | Joint 6 axis-J6 | ±360°                                                   |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 260W                                                    |
| Ambient temperature   |                 | -5°C-55°C                                               |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP65                                                    |
| Weight                |                 | 22kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

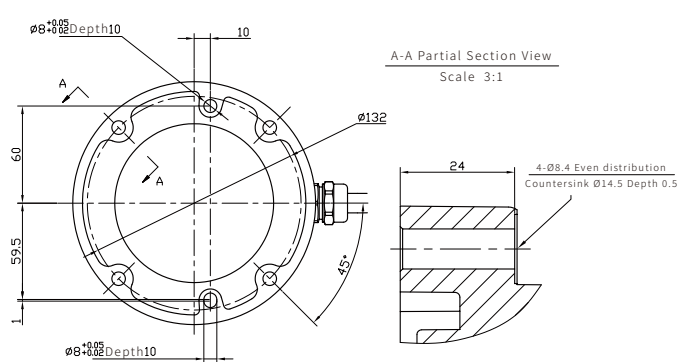
Outline Drawing



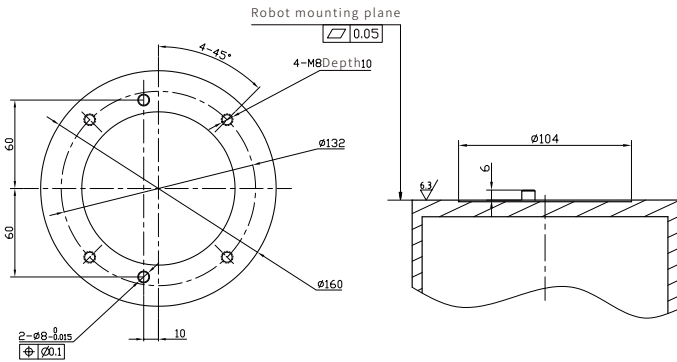
Dimension Drawing of Tool End Flange



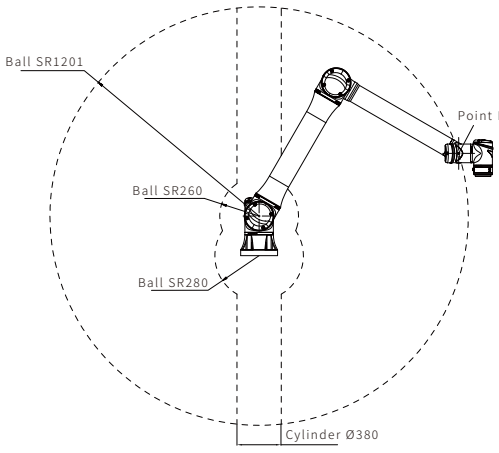
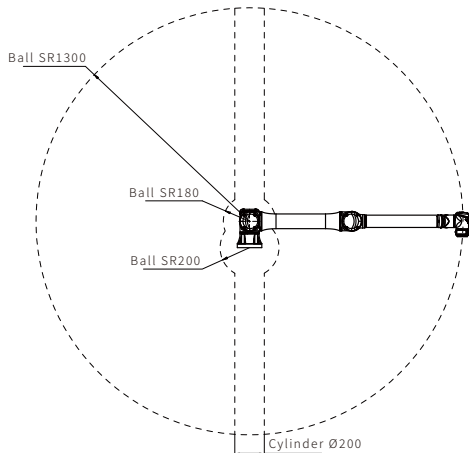
Base Dimension Drawing



Drawing of Recommended Installation Plane



Motion Range

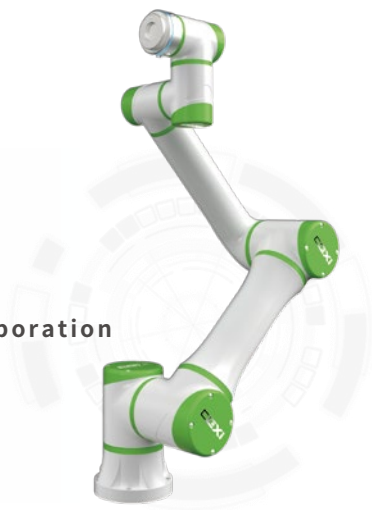


G Series Collaborative Robot  
– R6 Mechanical Arm

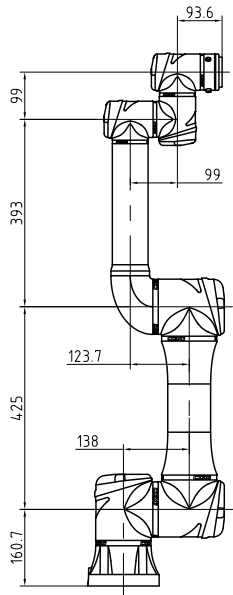
Product Features

High speed, high accuracy, compact structure, man-machine collaboration

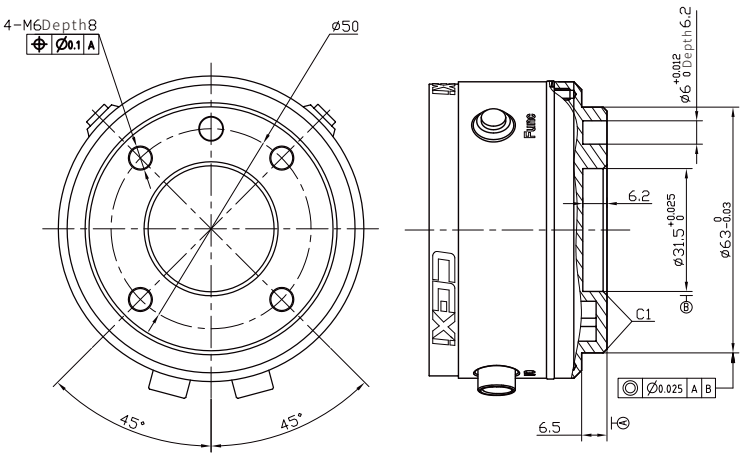
Rated load 6kg, working radius 917mm, tool end speed 3m/s  
CR authentication, CE authentication, SEMI S2 authentication,  
NRTL authentication



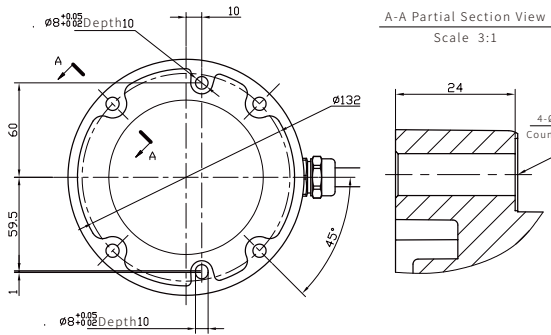
Outline Drawing



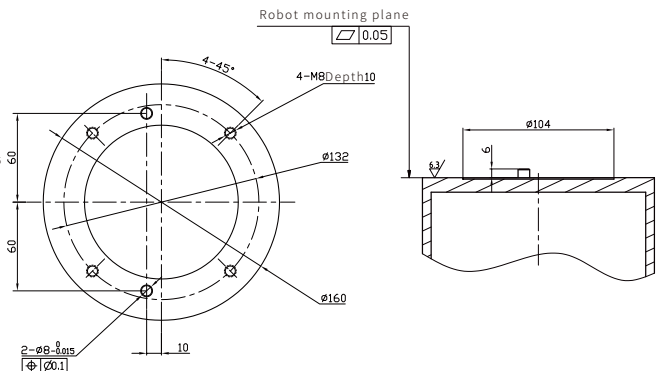
Dimension Drawing of Tool End Flange



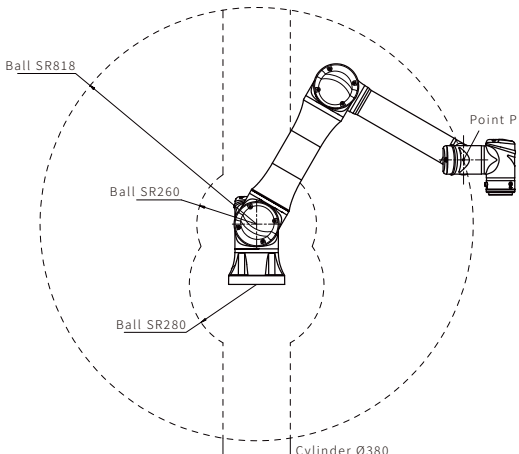
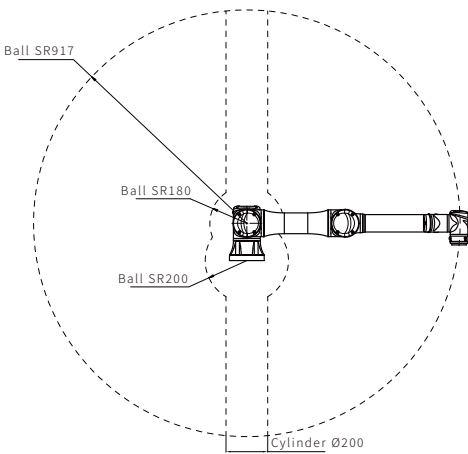
Base Dimension Drawing



Drawing of Recommended Installation Plane



Motion Range

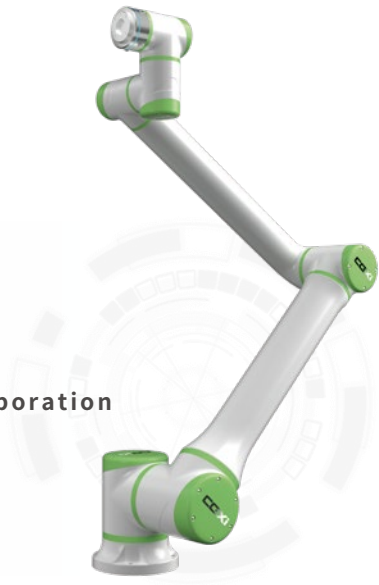


| Specifications        |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | R6 mechanical arm                                       |
| Model                 |                 | R6                                                      |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 6kg                                                     |
| Max. working radius   |                 | 917mm                                                   |
| Repeatability         |                 | ± 0.02mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 3m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 210°/s                                                  |
|                       | Joint 2 axis-J2 | 210°/s                                                  |
|                       | Joint 3 axis-J3 | 210°/s                                                  |
|                       | Joint 4 axis-J4 | 360°/s                                                  |
|                       | Joint 5 axis-J5 | 360°/s                                                  |
|                       | Joint 6 axis-J6 | 360°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                   |
|                       | Joint 2 axis-J2 | ±360°                                                   |
|                       | Joint 3 axis-J3 | ±165°                                                   |
|                       | Joint 4 axis-J4 | ±360°                                                   |
|                       | Joint 5 axis-J5 | ±360°                                                   |
|                       | Joint 6 axis-J6 | ±360°                                                   |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 260W                                                    |
| Ambient temperature   |                 | -5°C-55°C                                               |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP65                                                    |
| Weight                |                 | 21kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

# G Series Collaborative Robot – R9 Mechanical Arm

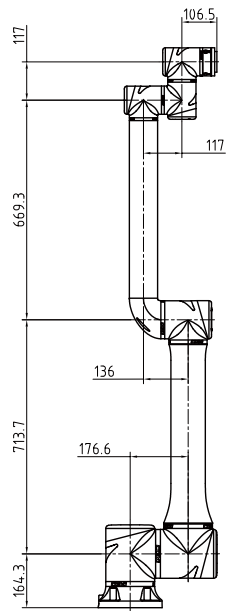
## Product Features

**High speed, high accuracy, compact structure, man-machine collaboration**  
Rated load 9kg, working radius 1500mm, tool end speed 3m/s  
CR authentication, CE authentication, SEMI S2 authentication, NRTL authentication

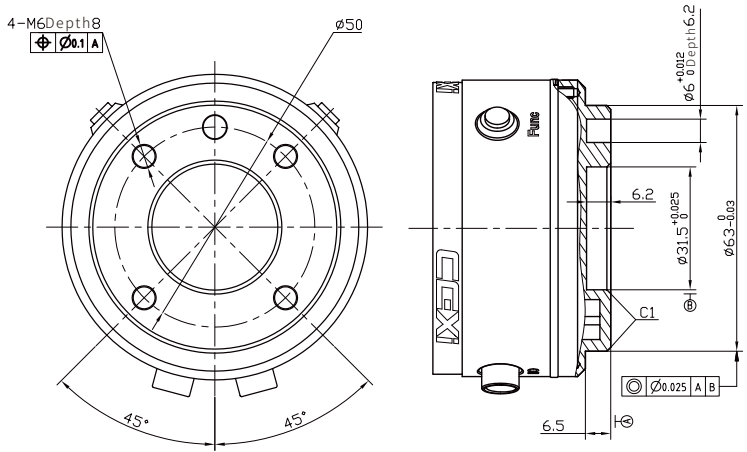


| Specifications        |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | R9 mechanical arm                                       |
| Model                 |                 | R9                                                      |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 9kg                                                     |
| Max. working radius   |                 | 1500mm                                                  |
| Repeatability         |                 | ± 0.05mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 3m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 150°/s                                                  |
|                       | Joint 2 axis-J2 | 150°/s                                                  |
|                       | Joint 3 axis-J3 | 210°/s                                                  |
|                       | Joint 4 axis-J4 | 240°/s                                                  |
|                       | Joint 5 axis-J5 | 240°/s                                                  |
|                       | Joint 6 axis-J6 | 240°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                   |
|                       | Joint 2 axis-J2 | ±360°                                                   |
|                       | Joint 3 axis-J3 | ±165°                                                   |
|                       | Joint 4 axis-J4 | ±360°                                                   |
|                       | Joint 5 axis-J5 | ±360°                                                   |
|                       | Joint 6 axis-J6 | ±360°                                                   |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 550W                                                    |
| Ambient temperature   |                 | -5℃-55℃                                                 |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP65                                                    |
| Weight                |                 | 37kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

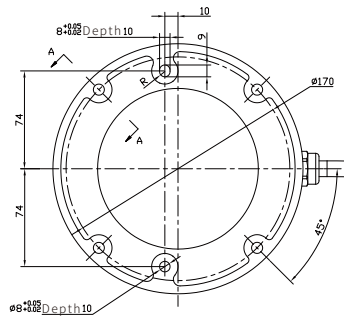
Outline Drawing



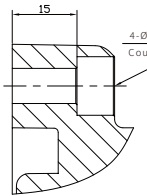
Dimension Drawing of Tool End Flange



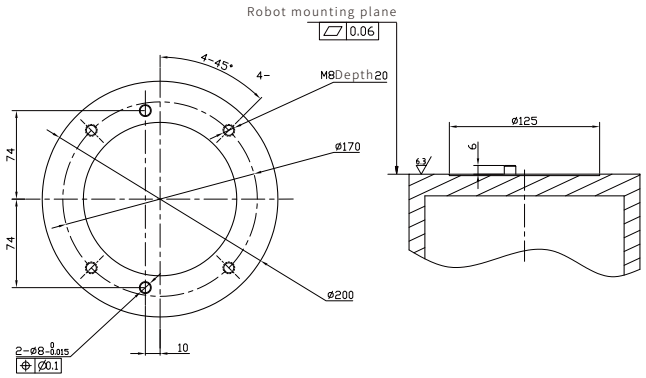
Base Dimension Drawing



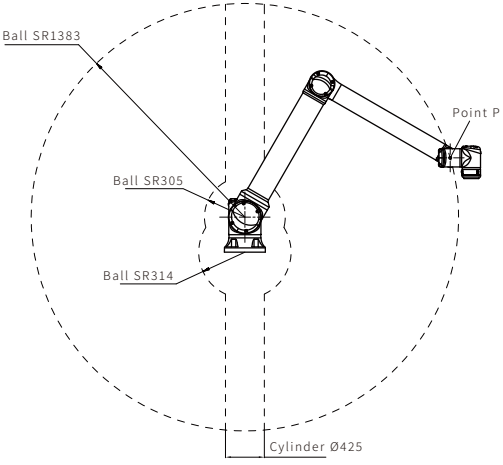
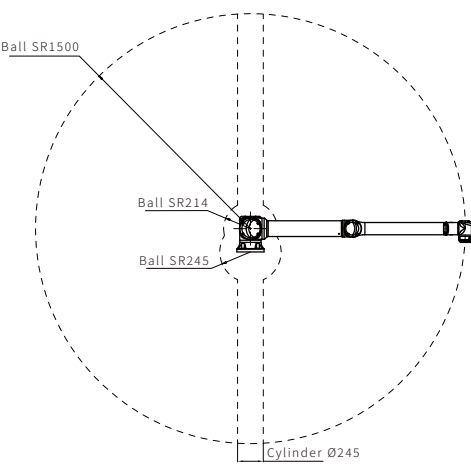
A-A Partial Section View  
Scale: 3:1



Drawing of Recommended Installation Plane



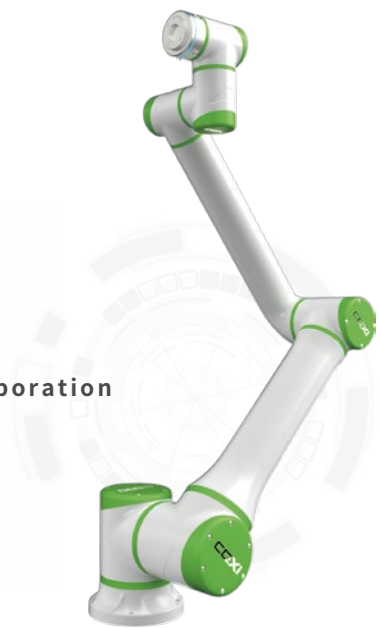
Motion Range



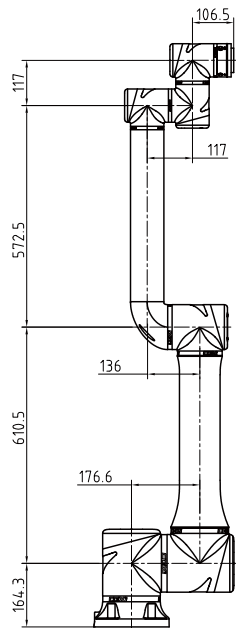
# G Series Collaborative Robot – R12 Mechanical Arm

## Product Features

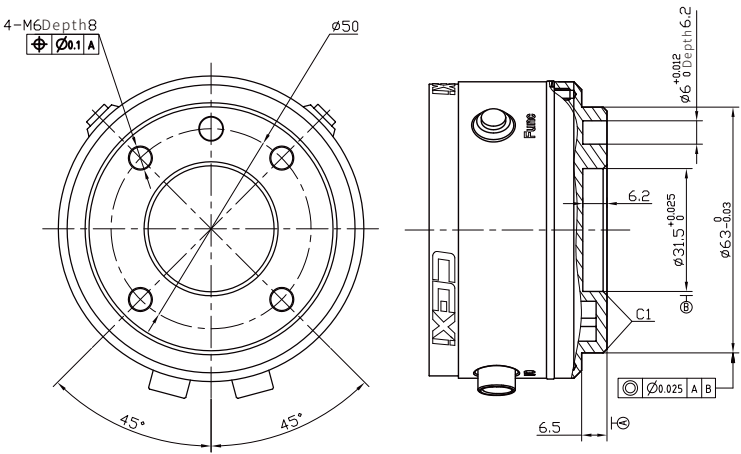
**High speed, high accuracy, compact structure, man-machine collaboration**  
Rated load 12kg, working radius 1300mm, tool end speed 3m/s,  
IP65 protection grade, better adaption to severe environment  
CR authentication, CE authentication, SEMI S2 authentication,  
NRTL authentication



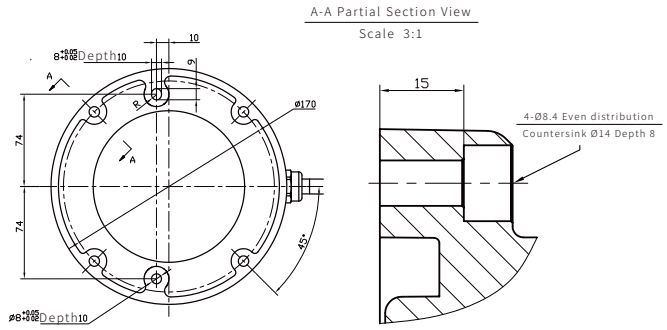
Outline Drawing



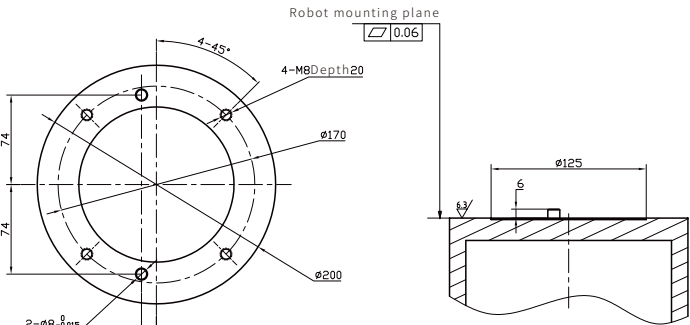
Dimension Drawing of Tool End Flange



Base Dimension Drawing

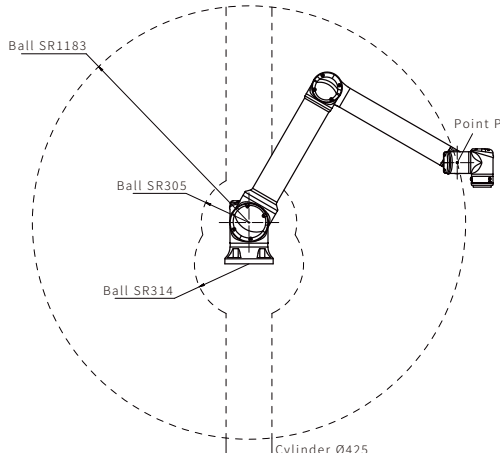
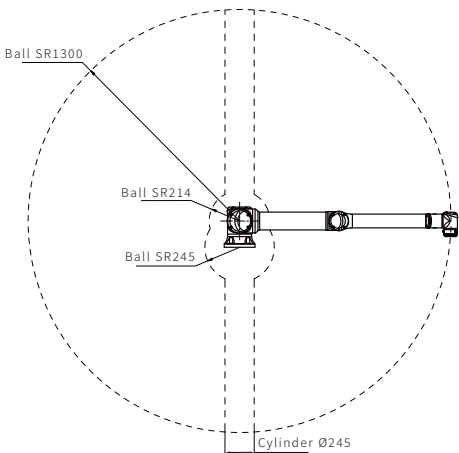


Drawing of Recommended Installation Plane



| Specifications        |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | R12 mechanical arm                                      |
| Model                 |                 | R12                                                     |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 12kg                                                    |
| Max. working radius   |                 | 1300mm                                                  |
| Repeatability         |                 | ± 0.03mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 3m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 150°/s                                                  |
|                       | Joint 2 axis-J2 | 150°/s                                                  |
|                       | Joint 3 axis-J3 | 210°/s                                                  |
|                       | Joint 4 axis-J4 | 240°/s                                                  |
|                       | Joint 5 axis-J5 | 240°/s                                                  |
|                       | Joint 6 axis-J6 | 240°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                   |
|                       | Joint 2 axis-J2 | ±360°                                                   |
|                       | Joint 3 axis-J3 | ±165°                                                   |
|                       | Joint 4 axis-J4 | ±360°                                                   |
|                       | Joint 5 axis-J5 | ±360°                                                   |
|                       | Joint 6 axis-J6 | ±360°                                                   |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 550W                                                    |
| Ambient temperature   |                 | -5°C-55°C                                               |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP65                                                    |
| Weight                |                 | 36kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

Motion Range



## G Series Collaborative Robot – R18 Mechanical Arm

## Product Features

**High speed, high accuracy, compact structure, man-machine collaboration**

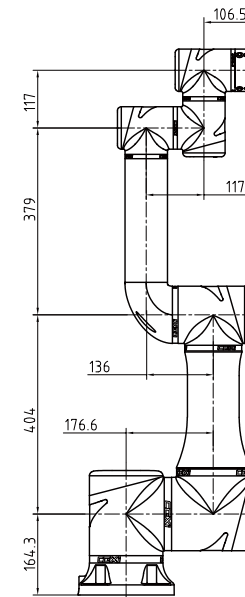
Rated load 18kg, working radius 900mm, tool end speed 2m/s,  
IP65 protection grade, better adaption to severe environment  
CR authentication, CE authentication, SEMI S2 authentication,  
NRTL authentication



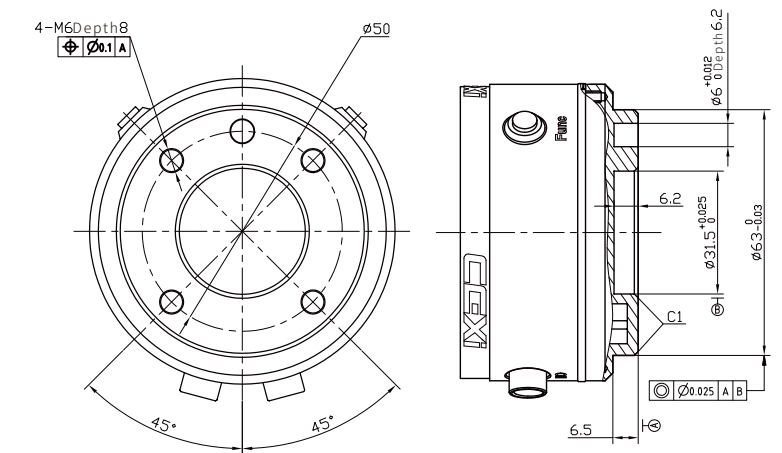
## Specifications

|                       |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | R18 mechanical arm                                      |
| Model                 |                 | R18                                                     |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 18kg                                                    |
| Max. working radius   |                 | 900mm                                                   |
| Repeatability         |                 | ± 0.02mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 2m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 150°/s                                                  |
|                       | Joint 2 axis-J2 | 150°/s                                                  |
|                       | Joint 3 axis-J3 | 210°/s                                                  |
|                       | Joint 4 axis-J4 | 240°/s                                                  |
|                       | Joint 5 axis-J5 | 240°/s                                                  |
|                       | Joint 6 axis-J6 | 240°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                   |
|                       | Joint 2 axis-J2 | ±360°                                                   |
|                       | Joint 3 axis-J3 | ±165°                                                   |
|                       | Joint 4 axis-J4 | ±360°                                                   |
|                       | Joint 5 axis-J5 | ±360°                                                   |
|                       | Joint 6 axis-J6 | ±360°                                                   |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 550W                                                    |
| Ambient temperature   |                 | -5℃-55℃                                                 |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP65                                                    |
| Weight                |                 | 35kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

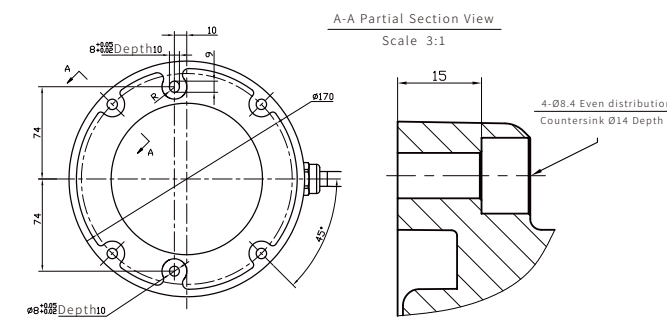
## Outline Drawing



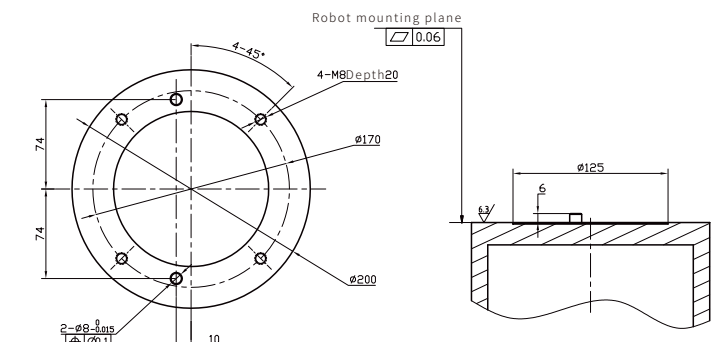
### Dimension Drawing of Tool End Flange



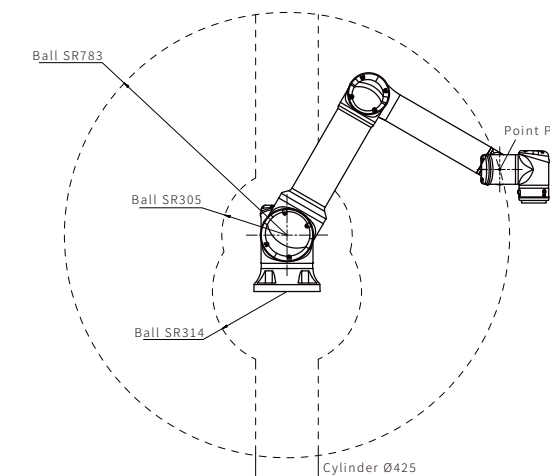
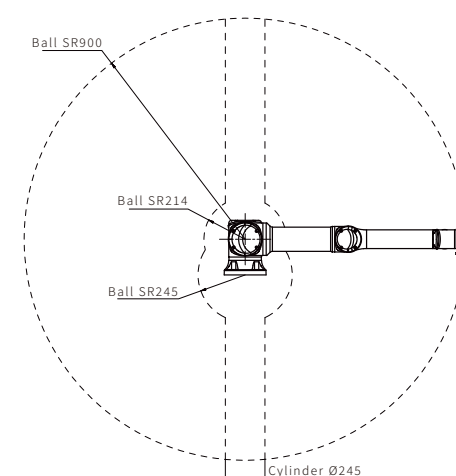
### Base Dimension Drawing



### Drawing of Recommended Installation Plane



### Motion Range



## G Series Collaborative Robot – R20 Mechanical Arm

## Product Features

**High speed, high accuracy, compact structure, man-machine collaboration**

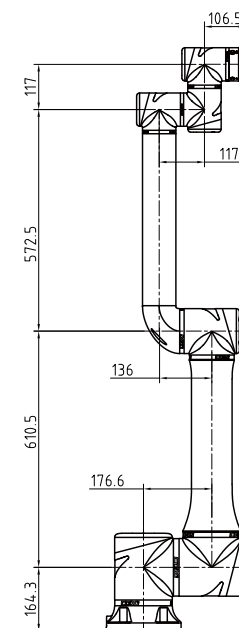
Rated load 20kg, working radius 1800mm, tool end speed 4m/s  
CR authentication, CE authentication, SEMI S2 authentication



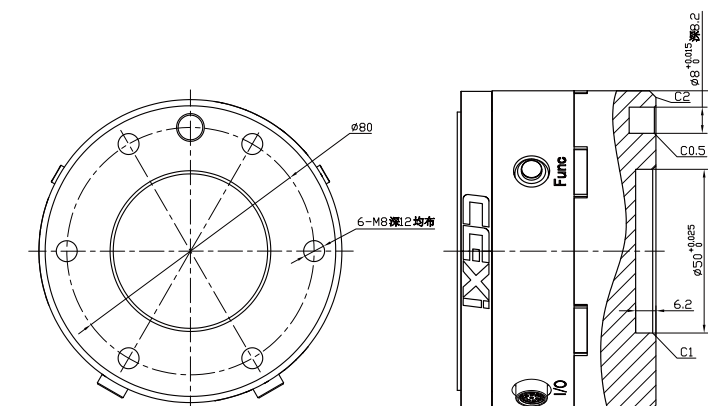
## Specifications

|                       |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | R20 mechanical arm                                      |
| Model                 |                 | R20                                                     |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 20kg                                                    |
| Max. working radius   |                 | 1800mm                                                  |
| Repeatability         |                 | ± 0.05mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 4m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 180°/s                                                  |
|                       | Joint 2 axis-J2 | 180°/s                                                  |
|                       | Joint 3 axis-J3 | 210°/s                                                  |
|                       | Joint 4 axis-J4 | 270°/s                                                  |
|                       | Joint 5 axis-J5 | 270°/s                                                  |
|                       | Joint 6 axis-J6 | 270°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ± 360°                                                  |
|                       | Joint 2 axis-J2 | ± 360°                                                  |
|                       | Joint 3 axis-J3 | ± 165°                                                  |
|                       | Joint 4 axis-J4 | ± 360°                                                  |
|                       | Joint 5 axis-J5 | ± 360°                                                  |
|                       | Joint 6 axis-J6 | ± 360°                                                  |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 1500W                                                   |
| Ambient temperature   |                 | -5℃-55℃                                                 |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP65                                                    |
| Weight                |                 | 68kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

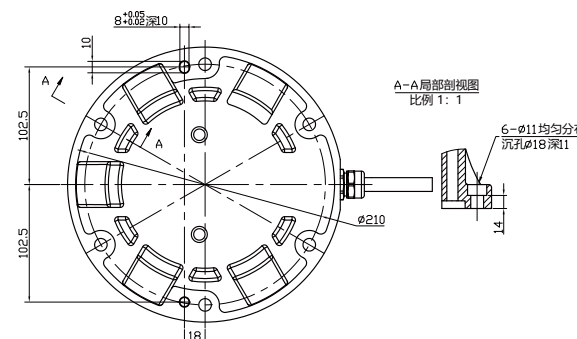
## Outline Drawing



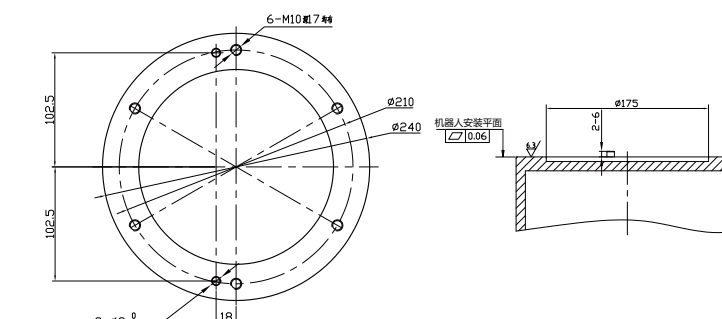
### Dimension Drawing of Tool End Flange



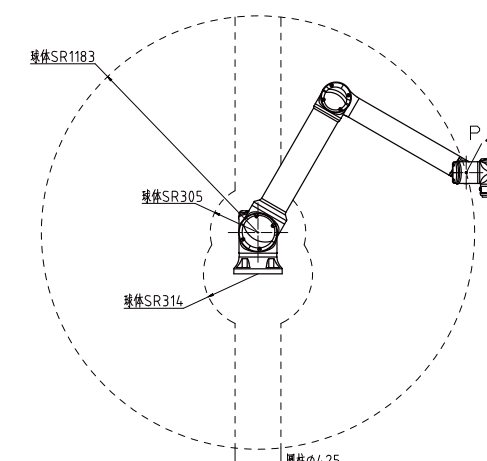
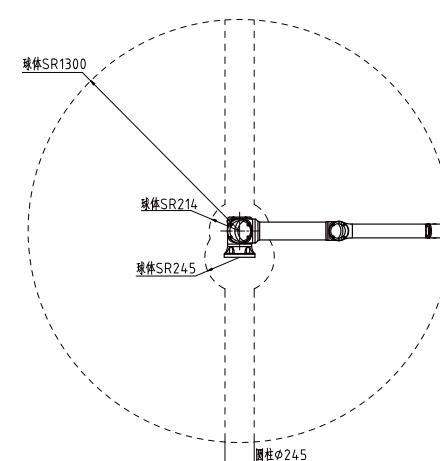
### Base Dimension Drawing



### Drawing of Recommended Installation Plane



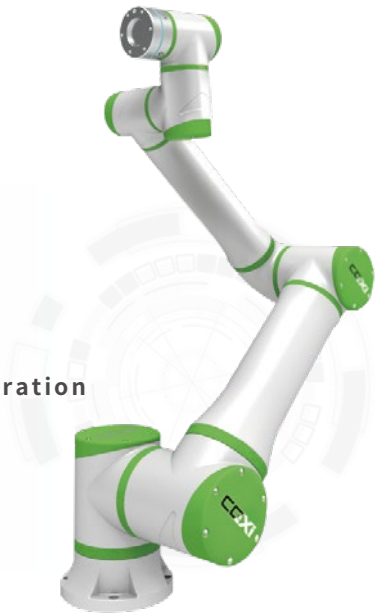
### Motion Range



# G Series Collaborative Robot – R30 Mechanical Arm

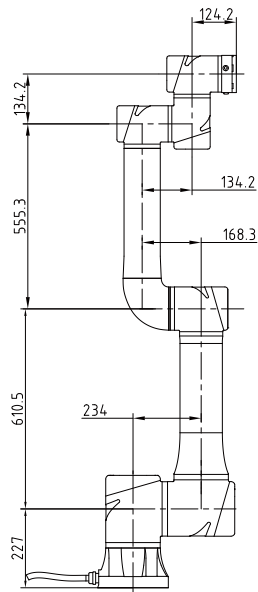
## Product Features

**High speed, high accuracy, compact structure, man-machine collaboration**  
Rated load 30kg, working radius 1300mm, tool end speed 3m/s  
CR authentication, CE authentication, SEMI S2 authentication

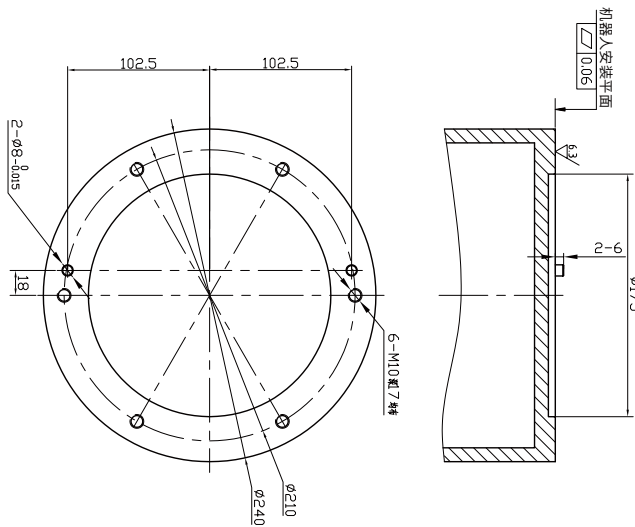


| Specifications        |                 |                                                         |
|-----------------------|-----------------|---------------------------------------------------------|
| Product name          |                 | R30 mechanical arm                                      |
| Model                 |                 | R30                                                     |
| DOF                   |                 | 6                                                       |
| Rated payload         |                 | 30kg                                                    |
| Max. working radius   |                 | 1300mm                                                  |
| Repeatability         |                 | ± 0.05mm                                                |
| Control bus/frequency |                 | EtherCAT/1KHz                                           |
| Tool max. speed       |                 | 3m/s                                                    |
| Max. speed            | Joint 1 axis-J1 | 180°/s                                                  |
|                       | Joint 2 axis-J2 | 180°/s                                                  |
|                       | Joint 3 axis-J3 | 210°/s                                                  |
|                       | Joint 4 axis-J4 | 270°/s                                                  |
|                       | Joint 5 axis-J5 | 270°/s                                                  |
|                       | Joint 6 axis-J6 | 270°/s                                                  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                   |
|                       | Joint 2 axis-J2 | ±360°                                                   |
|                       | Joint 3 axis-J3 | ±165°                                                   |
|                       | Joint 4 axis-J4 | ±360°                                                   |
|                       | Joint 5 axis-J5 | ±360°                                                   |
|                       | Joint 6 axis-J6 | ±360°                                                   |
| Noise level           |                 | ≤60dB                                                   |
| Rated power           |                 | 1500W                                                   |
| Ambient temperature   |                 | -5℃-55℃                                                 |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                 |
| Mounting              |                 | Arbitrary angle                                         |
| Protected structure   |                 | IP65                                                    |
| Weight                |                 | 64kg (excluding cable)                                  |
| Tool port             | I/O Port        | 1-way 24V/1A power supply; 2-way DI; 2-way DO; 2-way AI |
|                       | COM Port        | 1-way 24V/1A power supply; 1-way RS485; 1-way EtherCAT  |

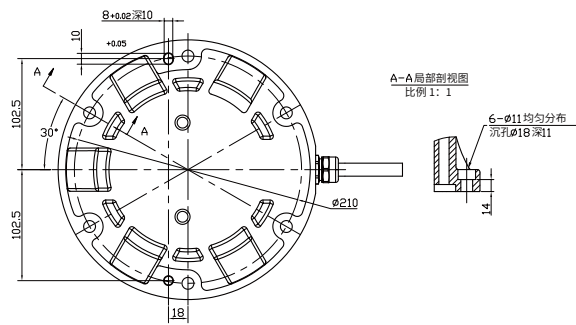
Outline Drawing



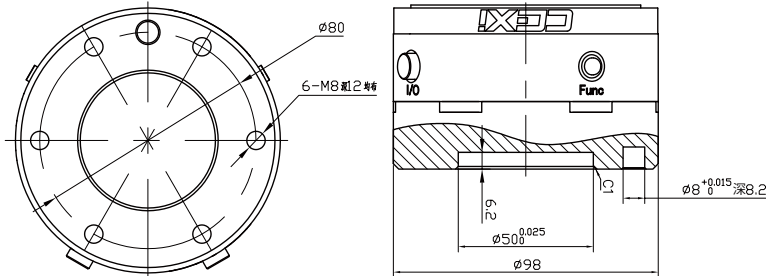
Dimension Drawing of Tool End Flange



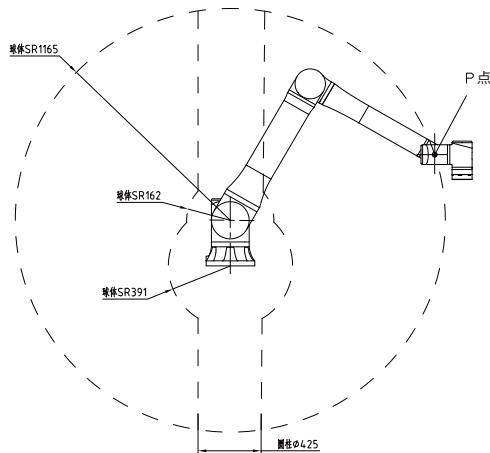
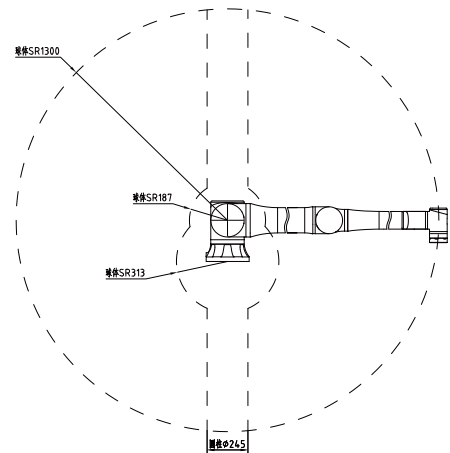
Base Dimension Drawing



Drawing of Recommended Installation Plane



Motion Range



X Series Collaborative Robot  
– XR6 Mechanical Arm

Product Features

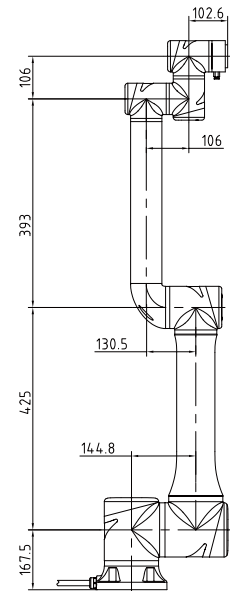
High speed, high accuracy, high protection grade, safety and reliability

Rated load 6kg, working radius 924mm, tool end speed 3m/s,  
IP68 protection grade, better adaption to severe environment  
CR authentication, CE authentication, SEMI S2 authentication,  
NRTL authentication

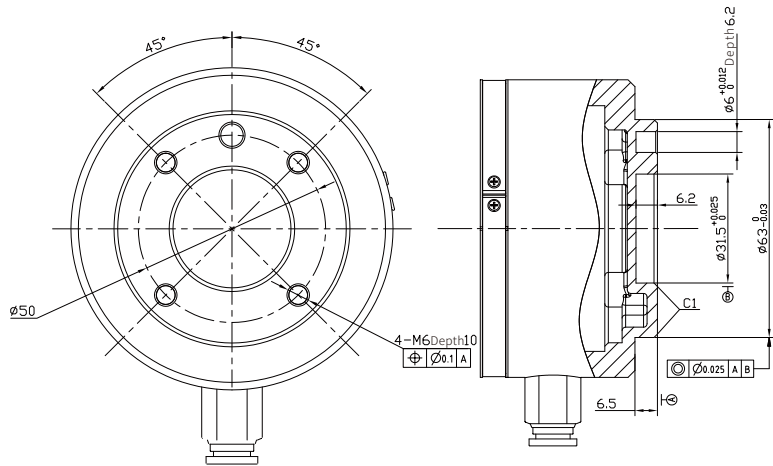


| Specifications        |                 |                                                                                 |
|-----------------------|-----------------|---------------------------------------------------------------------------------|
| Product name          |                 | XR6 mechanical arm                                                              |
| Model                 |                 | X6                                                                              |
| Explosion proof sign  |                 | Ex db eb ib pxb IIC T5 Gb<br>Ex ib pxb tb IIIC T95°C Db                         |
| DOF                   |                 | 6                                                                               |
| Rated payload         |                 | 6kg                                                                             |
| Max. working radius   |                 | 924mm                                                                           |
| Repeatability         |                 | ± 0.02mm                                                                        |
| Control bus/frequency |                 | EtherCAT/1KHz                                                                   |
| Tool max. speed       |                 | 3m/s                                                                            |
| Max. speed            | Joint 1 axis-J1 | 210°/s                                                                          |
|                       | Joint 2 axis-J2 | 210°/s                                                                          |
|                       | Joint 3 axis-J3 | 210°/s                                                                          |
|                       | Joint 4 axis-J4 | 360°/s                                                                          |
|                       | Joint 5 axis-J5 | 360°/s                                                                          |
|                       | Joint 6 axis-J6 | 360°/s                                                                          |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                                           |
|                       | Joint 2 axis-J2 | ±360°                                                                           |
|                       | Joint 3 axis-J3 | ±165°                                                                           |
|                       | Joint 4 axis-J4 | ±360°                                                                           |
|                       | Joint 5 axis-J5 | ±360°                                                                           |
|                       |                 | ±360°                                                                           |
| Noise level           |                 | ≤60dB                                                                           |
| Rated power           |                 | 260W                                                                            |
| Ambient temperature   |                 | -5°C-55°C (Explosion proof version)<br>-30°C-80°C (Extreme temperature version) |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                                         |
| Mounting              |                 | Arbitrary angle                                                                 |
| Protected structure   |                 | IP68                                                                            |
| Weight                |                 | 21kg (excluding cable)                                                          |

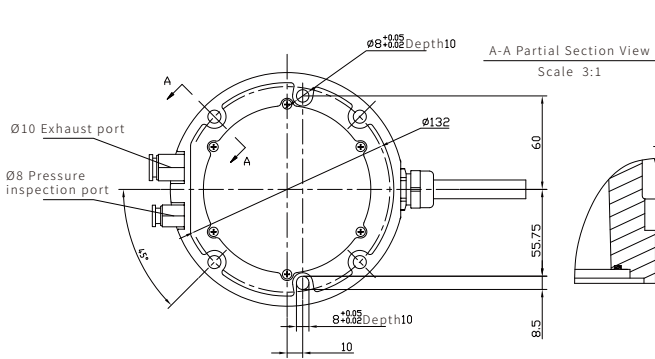
Outline Drawing



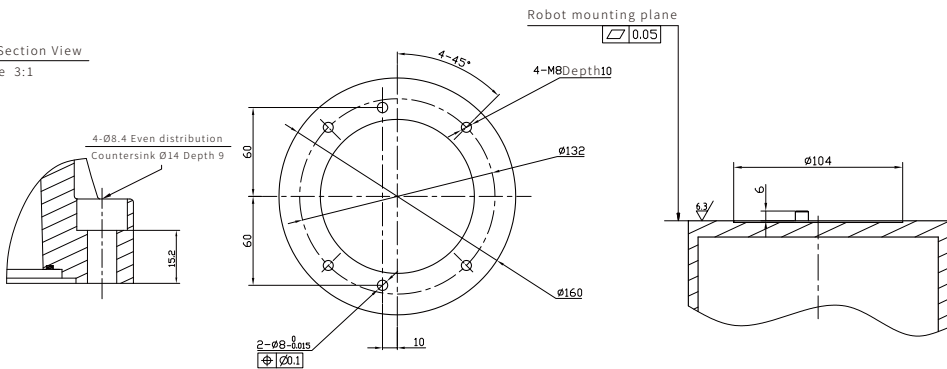
Dimension Drawing of Tool End Flange



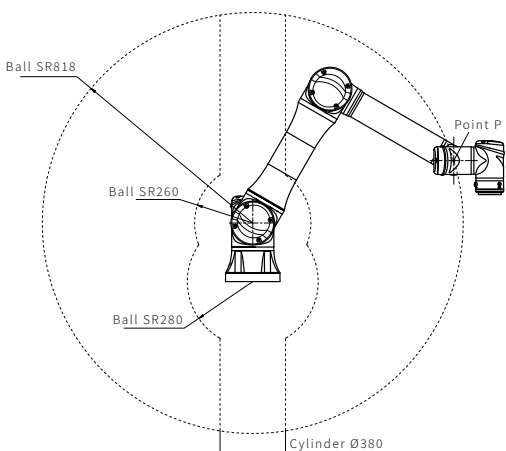
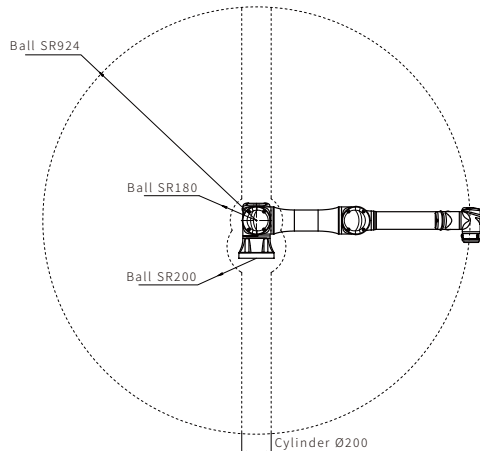
Base Dimension Drawing



Drawing of Recommended Installation Plane



Motion Range



# X Series Collaborative Robot – XR9 Mechanical Arm

## Product Features

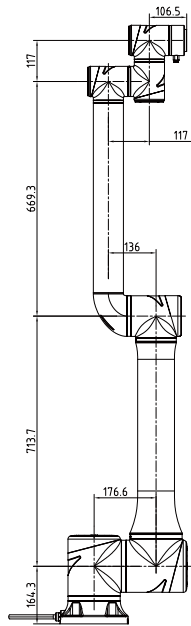
High speed, high accuracy, high protection grade, safety and reliability

Rated load 9kg, working radius 1500mm, tool end speed 3m/s, IP68 protection grade, better adaption to severe environment CR authentication, CE authentication, SEMI S2 authentication, NRTL authentication

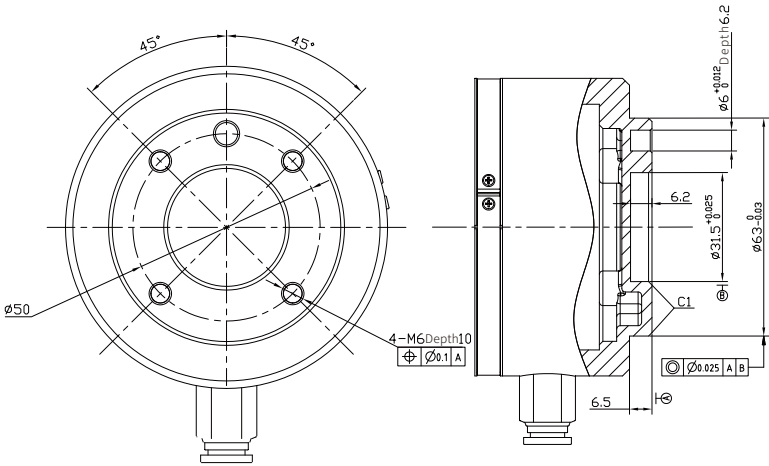


| Specifications        |                 |                                                                                 |
|-----------------------|-----------------|---------------------------------------------------------------------------------|
| Product name          |                 | XR9 mechanical arm                                                              |
| Model                 |                 | X9                                                                              |
| Explosion proof sign  |                 | Ex db eb ib pxb IIC T5 Gb<br>Ex ib pxb tb IIIC T95°C Db                         |
| DOF                   |                 | 6                                                                               |
| Rated payload         |                 | 9kg                                                                             |
| Max. working radius   |                 | 1500mm                                                                          |
| Repeatability         |                 | ± 0.05mm                                                                        |
| Control bus/frequency |                 | EtherCAT/1KHz                                                                   |
| Tool max. speed       |                 | 3m/s                                                                            |
| Max. speed            | Joint 1 axis-J1 | 150°/s                                                                          |
|                       | Joint 2 axis-J2 | 150°/s                                                                          |
|                       | Joint 3 axis-J3 | 210°/s                                                                          |
|                       | Joint 4 axis-J4 | 240°/s                                                                          |
|                       | Joint 5 axis-J5 | 240°/s                                                                          |
|                       | Joint 6 axis-J6 | 240°/s                                                                          |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                                           |
|                       | Joint 2 axis-J2 | ±360°                                                                           |
|                       | Joint 3 axis-J3 | ±165°                                                                           |
|                       | Joint 4 axis-J4 | ±360°                                                                           |
|                       | Joint 5 axis-J5 | ±360°                                                                           |
|                       | Joint 6 axis-J6 | ±360°                                                                           |
| Noise level           |                 | ≤60dB                                                                           |
| Rated power           |                 | 550W                                                                            |
| Ambient temperature   |                 | -5°C-55°C (Explosion proof version)<br>-30°C-80°C (Extreme temperature version) |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                                         |
| Mounting              |                 | Arbitrary angle                                                                 |
| Protected structure   |                 | IP68                                                                            |
| Weight                |                 | 37kg (excluding cable)                                                          |

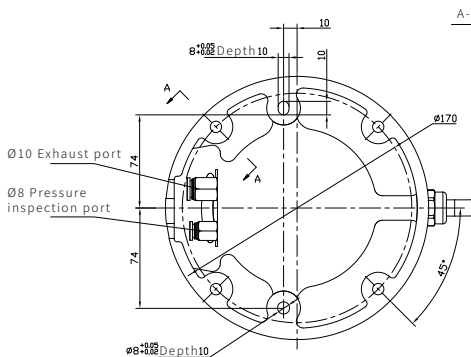
Outline Drawing



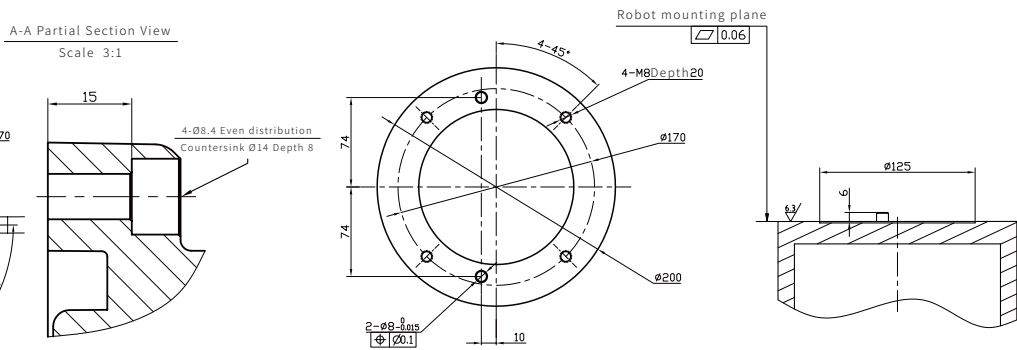
Dimension Drawing of Tool End Flange



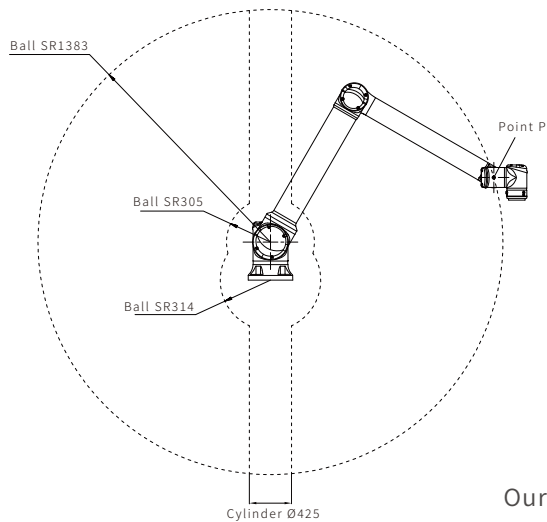
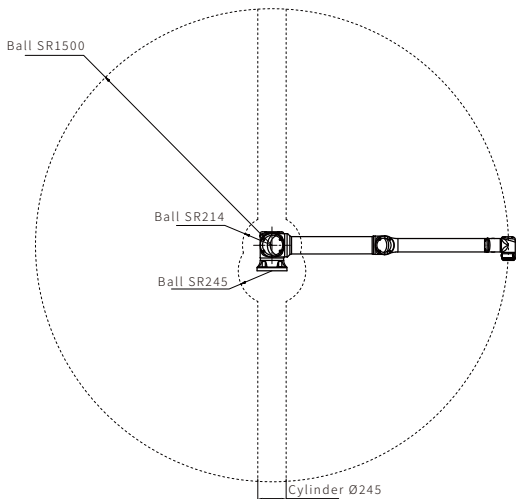
Base Dimension Drawing



Drawing of Recommended Installation Plane



Motion Range



## X Series Collaborative Robot – XR12 Mechanical Arm



## Product Features

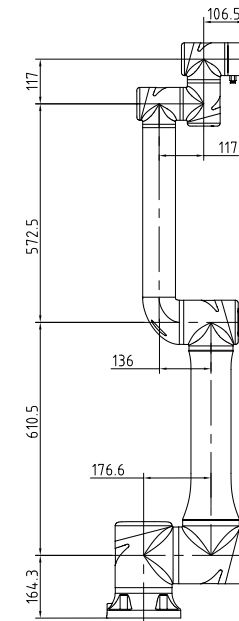
**High speed, high accuracy, high protection grade, safety and reliability**

Rated load 12kg, working radius 1300mm, tool end speed 3m/s,  
IP68 protection grade, better adaption to severe environment  
CR authentication, CE authentication, SEMI S2 authentication,  
NRTL authentication

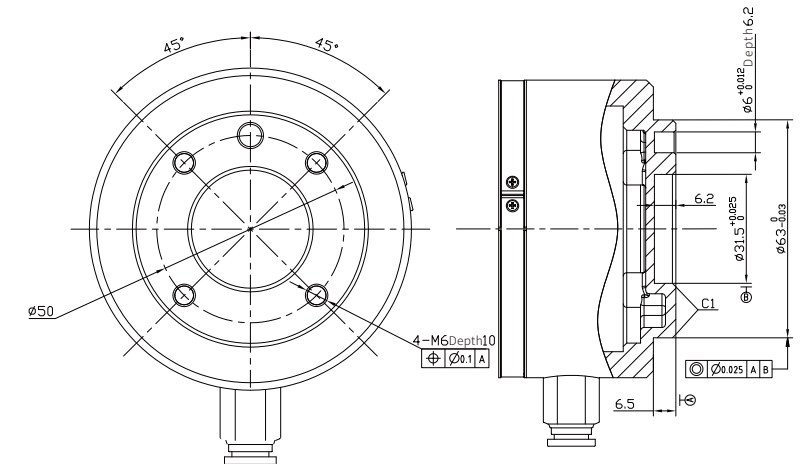
## Specifications

|                       |                 |                                                                           |
|-----------------------|-----------------|---------------------------------------------------------------------------|
| Product name          |                 | XR12 mechanical arm                                                       |
| Model                 |                 | XR12                                                                      |
| Explosion proof sign  |                 | Ex db eb ib pxb IIC T5 Gb<br>Ex ib pxb tb IIIC T95℃ Db                    |
| DOF                   |                 | 6                                                                         |
| Rated payload         |                 | 12kg                                                                      |
| Max. working radius   |                 | 1300mm                                                                    |
| Repeatability         |                 | ± 0.03mm                                                                  |
| Control bus/frequency |                 | EtherCAT/1KHz                                                             |
| Tool max. speed       |                 | 3m/s                                                                      |
| Max. speed            | Joint 1 axis-J1 | 150°/s                                                                    |
|                       | Joint 2 axis-J2 | 150°/s                                                                    |
|                       | Joint 3 axis-J3 | 210°/s                                                                    |
|                       | Joint 4 axis-J4 | 240°/s                                                                    |
|                       | Joint 5 axis-J5 | 240°/s                                                                    |
|                       | Joint 6 axis-J6 | 240°/s                                                                    |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                                     |
|                       | Joint 2 axis-J2 | ±360°                                                                     |
|                       | Joint 3 axis-J3 | ±165°                                                                     |
|                       | Joint 4 axis-J4 | ±360°                                                                     |
|                       | Joint 5 axis-J5 | ±360°                                                                     |
|                       | Joint 6 axis-J6 | ±360°                                                                     |
| Noise level           |                 | ≤60dB                                                                     |
| Rated power           |                 | 550W                                                                      |
| Ambient temperature   |                 | -5℃-55℃（Explosion proof version）<br>-30℃-80℃（Extreme temperature version） |
| Ambient humidity      |                 | 5%~90%RH, no condensing                                                   |
| Mounting              |                 | Arbitrary angle                                                           |
| Protected structure   |                 | IP68                                                                      |
| Weight                |                 | 36kg（excluding cable）                                                     |

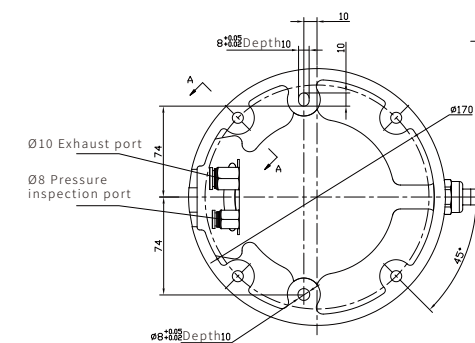
## Outline Drawing



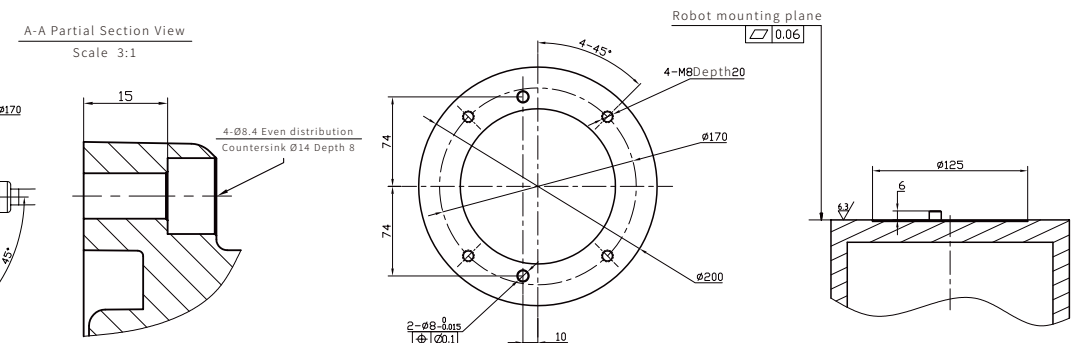
### Dimension Drawing of Tool End Flange



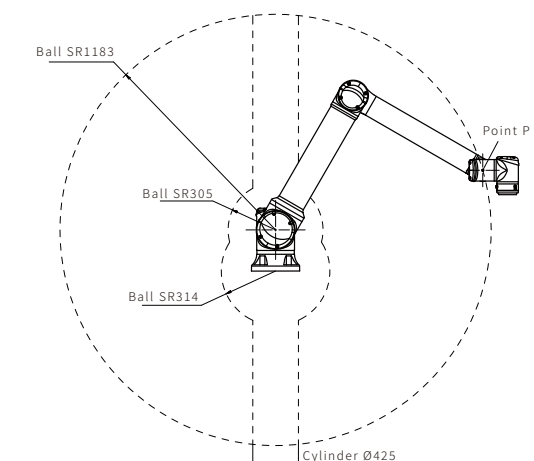
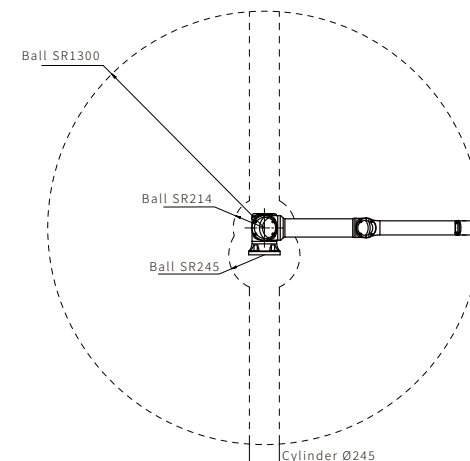
### Base Dimension Drawing



### Drawing of Recommended Installation Plane



### Motion Range



## X Series Collaborative Robot – XR18 Mechanical Arm

## Product Features

**High speed, high accuracy, high protection grade, safety and reliability**

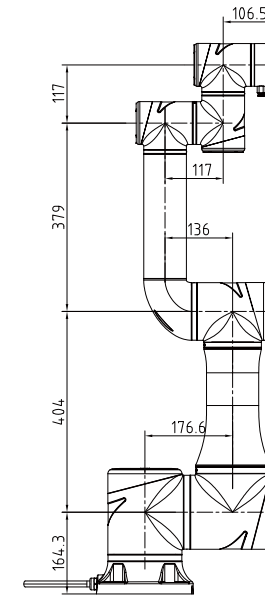
Rated load 18kg, working radius 900mm, tool end speed 3m/s,  
IP68 protection grade, better adaption to severe environment  
CR authentication, CE authentication, SEMI S2 authentication,  
NRTL authentication



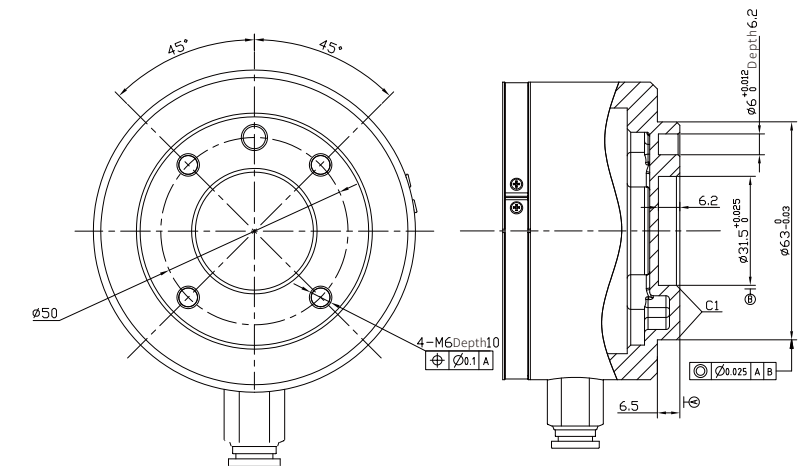
## Specifications

|                       |                 |                                                                           |  |
|-----------------------|-----------------|---------------------------------------------------------------------------|--|
| Product name          |                 | XR18 mechanical arm                                                       |  |
| Model                 |                 | XR18                                                                      |  |
| Explosion proof sign  |                 | Ex db eb ib pxb IIC T5 Gb<br>Ex ib pxb tb IIIC T95℃ Db                    |  |
| DOF                   |                 | 6                                                                         |  |
| Rated payload         |                 | 18kg                                                                      |  |
| Max. working radius   |                 | 900mm                                                                     |  |
| Repeatability         |                 | ± 0.02mm                                                                  |  |
| Control bus/frequency |                 | EtherCAT/1KHz                                                             |  |
| Tool max. speed       |                 | 3m/s                                                                      |  |
| Max. speed            | Joint 1 axis-J1 | 150°/s                                                                    |  |
|                       | Joint 2 axis-J2 | 150°/s                                                                    |  |
|                       | Joint 3 axis-J3 | 210°/s                                                                    |  |
|                       | Joint 4 axis-J4 | 240°/s                                                                    |  |
|                       | Joint 5 axis-J5 | 240°/s                                                                    |  |
|                       | Joint 6 axis-J6 | 240°/s                                                                    |  |
| Max. operation area   | Joint 1 axis-J1 | ±360°                                                                     |  |
|                       | Joint 2 axis-J2 | ±360°                                                                     |  |
|                       | Joint 3 axis-J3 | ±165°                                                                     |  |
|                       | Joint 4 axis-J4 | ±360°                                                                     |  |
|                       | Joint 5 axis-J5 | ±360°                                                                     |  |
|                       | Joint 6 axis-J6 | ±360°                                                                     |  |
| Noise level           |                 | ≤60dB                                                                     |  |
| Rated power           |                 | 550W                                                                      |  |
| Ambient temperature   |                 | -5℃-55℃（Explosion proof version）<br>-30℃-80℃（Extreme temperature version） |  |
| Ambient humidity      |                 | 5%~90%RH，no condensing                                                    |  |
| Mounting              |                 | Arbitrary angle                                                           |  |
| Protected structure   |                 | IP68                                                                      |  |
| Weight                |                 | 35kg（excluding cable）                                                     |  |

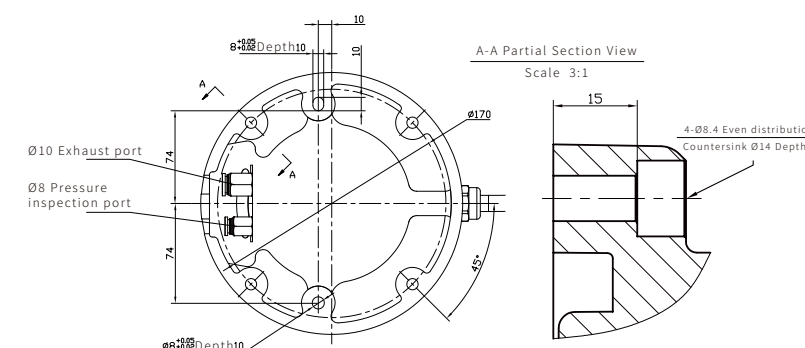
## Outline Drawing



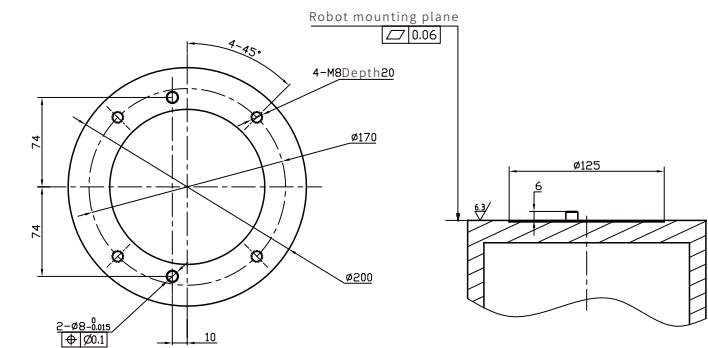
### Dimension Drawing of Tool End Flange



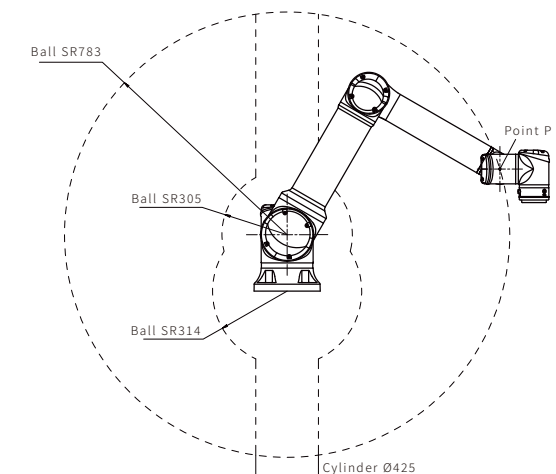
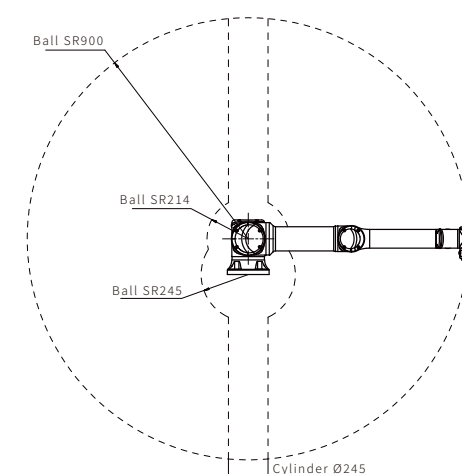
### Base Dimension Drawing



### Drawing of Recommended Installation Plane



### Motion Range



MK Controller – MK – 002S – W

Product Features

Small volume, lightweight, flexible deployment  
Rich interface of software/hardware, easy expansion,  
high cost performance



Specifications

|                     |                          |                                                                   |       |                             |       |
|---------------------|--------------------------|-------------------------------------------------------------------|-------|-----------------------------|-------|
| Dimensions          | 235mm*177mm*47mm (L*H*W) |                                                                   |       |                             |       |
| Weight              | 1.5kg                    |                                                                   |       |                             |       |
| Panel COM interface | Busbar                   | Ethernet port * 2, support TCP/IP Modbus – TCP protocol           |       |                             |       |
|                     |                          | RS485*2, support customized protocol, Modbus – RTU/ASCII protocol |       |                             |       |
|                     |                          | EtherCAT * 1                                                      |       |                             |       |
|                     | Others                   | Emergency stop input                                              | 1-way | Safe stop input             | 1-way |
|                     |                          | Remote startup input                                              | 1-way | Remote stop input           | 1-way |
|                     |                          | Configurable digital input                                        | 8-way | Configurable digital output | 8-way |
| Power               | DC 45~48V                |                                                                   |       |                             |       |
| Protected Structure | IP44                     |                                                                   |       |                             |       |
| Ambient Temperature | -5℃~55℃                  |                                                                   |       |                             |       |
| Ambient Humidity    | 5%-90%RH, no condensing  |                                                                   |       |                             |       |

Explosion-proof Electric Control Box  
– K20 – EX – 005S

Product Features

High protection grade, positive pressure protection, light alarm  
Rich external extension interfaces, apply to inflammable and  
explosive environment



Specifications

|                     |                             |                                                                   |       |                             |       |
|---------------------|-----------------------------|-------------------------------------------------------------------|-------|-----------------------------|-------|
| Dimensions          | 550mm*400mm*1600mm (L*H*W)  |                                                                   |       |                             |       |
| Weight              | 283kg                       |                                                                   |       |                             |       |
| Panel COM interface | Busbar                      | Ethernet port * 2, support TCP/IP Modbus – TCP protocol           |       |                             |       |
|                     |                             | RS232*1, support customized protocol, Modbus – RTU/ASCII protocol |       |                             |       |
|                     |                             | RS485*2, support customized protocol, Modbus – RTU/ASCII protocol |       |                             |       |
|                     | Others                      | EtherCAT * 1                                                      |       |                             |       |
|                     |                             | Emergency stop input                                              | 1-way | Safe stop input             | 1-way |
|                     |                             | Remote startup input                                              | 1-way | Remote stop input           | 1-way |
|                     |                             | Digital input                                                     | 8-way | Digital output              | 8-way |
|                     |                             | Configurable digital input                                        | 8-way | Configurable digital output | 8-way |
| Power               | AC 200V~240V, 50-60Hz (±5%) |                                                                   |       |                             |       |
| Protected structure | IP65                        |                                                                   |       |                             |       |
| Ambient temperature | -5℃~55℃                     |                                                                   |       |                             |       |
| Ambient humidity    | 5%-90%RH, no condensing     |                                                                   |       |                             |       |

# MK Controller – MK – 002S – W

## Product Features

Hard real-time operating system, high-speed EtherCAT busbar, microsecond level response of peripheral devices  
Accurate identification of dynamical model  
Smooth transition algorithm of Jerk control, dynamic track change  
Extended linkage control of additional shaft



| Specifications        |                                                                                              |                                                                        |       |                                   |
|-----------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------|-----------------------------------|
| Dimensions            | 429mm*437mm*190mm (L*H*W)                                                                    |                                                                        |       |                                   |
| Weight                | 13.6kg                                                                                       |                                                                        |       |                                   |
| Extern COM interfaces | RJ45 Ethernet port 2-way, 10/100M self-adaption<br>Support Modbus TCP communication protocol |                                                                        |       |                                   |
| Inner COM interfaces  | Busbar                                                                                       | RS232 interface 1-way, support customized or Modbus RTU-ASCII protocol |       |                                   |
|                       |                                                                                              | RS485 interface 2-way, support customized or Modbus RTU-ASCII protocol |       |                                   |
|                       |                                                                                              | RJ45 interface 1-way, 100M Ethernet port, support EtherCAT device      |       |                                   |
|                       | Others                                                                                       | Emergency stop input                                                   | 2-way | Safe stop input 2-way             |
|                       |                                                                                              | Remote startup input                                                   | 1-way | Remote stop input 1-way           |
|                       |                                                                                              | Digital input                                                          | 8-way | Digital output 8-way              |
|                       |                                                                                              | Configurable digital input                                             | 8-way | Configurable digital output 8-way |
| Power                 | AC 200V~240V, 50-60Hz (±5%)                                                                  |                                                                        |       |                                   |
|                       | Protected structure IP44                                                                     |                                                                        |       |                                   |
| Ambient temperature   | -5℃~55℃                                                                                      |                                                                        |       |                                   |
| Ambient humidity      | 5%-90%RH, no condensing                                                                      |                                                                        |       |                                   |

# CGXi Demonstrator

## Product Features

Embedded board card, Linux operating system, open interface  
Plug and play, support networking to control multiple mechanical arms  
Flexible configuration of user interface, adapted to different industrial scenarios  
Support WIFI/4G/5G communication network, local or remote online upgrade, data upload and intelligent networking

## Specifications

|                     |                         |
|---------------------|-------------------------|
| Dimensions          | 289mm*256mm (L*W)       |
| Weight              | 1.5kg                   |
| Cable length        | 5m                      |
| Protected structure | IP44                    |
| Ambient temperature | -5℃~55℃                 |
| Ambient humidity    | 5%-90%RH, no condensing |



# Application Industry



Automotive



3C sector



Machining



Energy



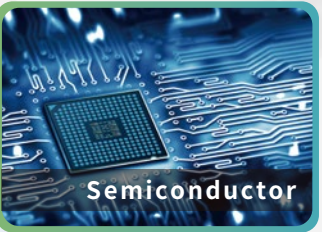
Household appliance



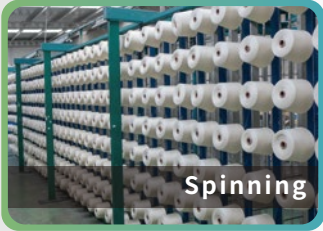
Food



Daily chemical



Semiconductor



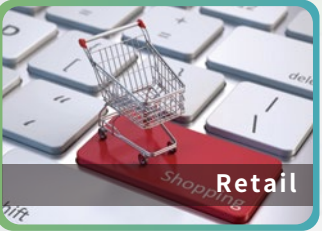
Spinning



Bathroom



Agriculture



Retail



Medical



Scientific research and education



Dining



Service



Mining



Electric power

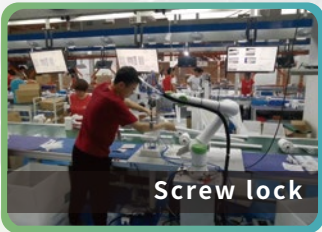


Architecture



Logistics

# Application Scenario



Screw lock



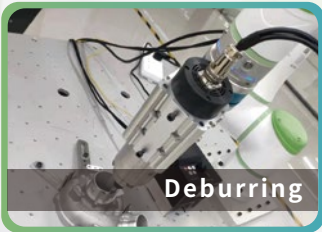
Riveting



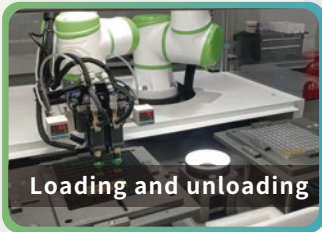
Hot forging spray



Gluing



Deburring



Loading and unloading



Welding



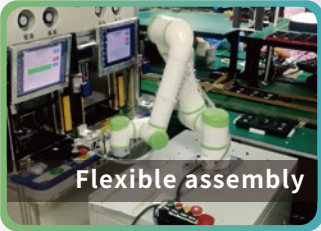
Material sorting



Stacking



Labeling



Flexible assembly



Intelligent surgical lamp



Composite robot



Automotive wheel spray powder



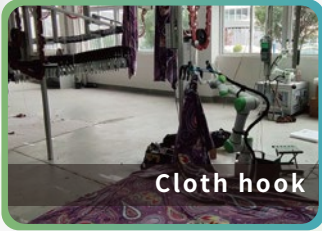
Turbine visual defect detection



Coffee robot



Three-proof paint spray



Cloth hook



Wood polishing



Unpacking robot

# Automobile and 3C Sectors

## Screw lock

### High speed, accuracy and stability

Realize the fastening takt of 1.4S/screw at the client’s application site, with daily output above 10,000 screws, fault rate <0.05%, creating the record of the highest speed and stability of screw lock of collaborative robot.

- **Model: G6 collaborative robot**
- Screw type: M1 ~ M6
- Screw feed method: Screw suction or blowing
- Lock angle: Arbitrary angle
- Production process: Upload process data to cloud platform, such as fault detection alarms and recorded fastening force
- Power supply voltage: 220V ~ 240V
- Installation mode: Arbitrary angle
- Scope of application: 3C or household products



the video of cases

## 3D Visual Loading and Unloading

### Complex integration scheme, high safety protection grade

- **Model: G12 collaborative robot**
- 3D visual and auto recognition of different charts, chart layers, part position and realize auto grabbing of parts; single claw fits 5 workpiece
- Multi-level safety protection measures, such as laser radar, safety carpet and PLC control
- Replace artificial loading/unloading, the production takt is below 8.5s, improve the production efficiency by 50% and realize cost-recovering within half a yearUpload production
- and process data to cloud platform, give alarm of fault
- Scope of application: Automobile and machinery manufacturing



the video of cases

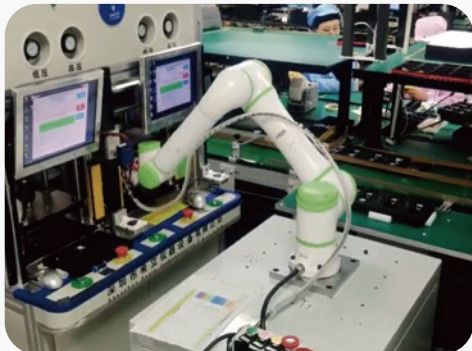
## Intelligent Wearable Devices Testing Machine

### High speed and accuracy

- **Model: G6 collaborative robot**
- 1 robot can realize loading/unloading of 4 airtight machines
- Increase the production takt from the extreme speed of 12s of rivals to 9s, thus improving the production efficiency greatly
- No fault in the 2000h test run at early period of project, pass acceptance successfully
- Scope of application: Loading/unloading of 3C or precision devices



the video of cases



## Automobile Wheel Spray Powder

### Drag demonstration, track reoccurrence

- **Model: G6 collaborative robot**
- The common works can get started quickly, to greatly reduce the difficulty of debugging and deployment
- Provide spray application packet along with ecological partners, the client can configure parameters as required
- Scope of application: Automobile, machining and household appliance



the video of cases

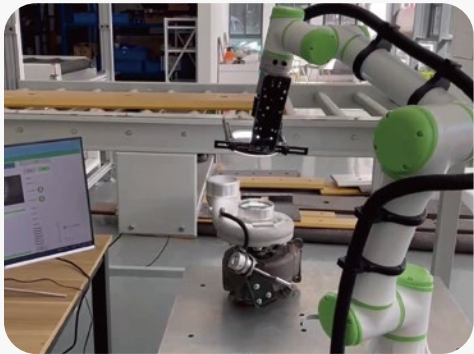


# Machining

## Turbine Visual Defect Detection

Auto detection, high effects and stability

- **Model: G6 collaborative robot**
- The collaborative robot can drive the camera and control the shooting angle
- Detect the parts point by point
- Realize real-time image analysis based on algorithm library
- Scope of application: Automobile and machine manufacturing



## 1 ON 3 Tool Loading and Unloading

Flexible rack, quick switch and production

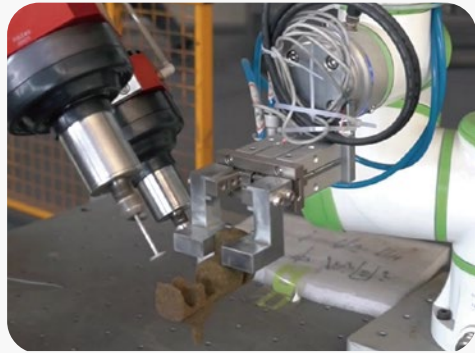
- **Model: G6 and G12 collaborative robot**
- 3D auxiliary loading based on flexible rack, no complex material flow line required
- Quick replacement of claw, adaption to different materials
- Scope of application: Automobile and machinery processing



## Sand Core Grinding

Track output, stable and efficient

- **Model: G6 collaborative robot**
- Smooth running based on the smooth transition algorithm of track
- High grinding accuracy and reliability
- Scope of application: Automobile and machine manufacturing



## Hot Forging Spray

Severe working environment

- **Model: G6 collaborative robot**
- High/low temperature impact: Spray release agent in the forging process at 1200°C
- Strong electromagnetic interference and voltage pulse interference: Start/stop the heater frequently at 40kw current
- Overload running: The actual load is 7kg, which exceeds the rated load
- Stable running for over 2 years
- Scope of application: Severe scenarios such as spraying



## AI Visual Inspection Workstation

Light deployment, quick delivery

- **Model: G6 collaborative robot**
- AI visual appearance detection based on in-depth study
- Short and fast delivery in sales, support quick algorithm verification
- Scope of application: Automobile and 3C sector



## Double Arm Riveting

Auto riveting, high efficiency and stability

- **Model: G6 collaborative robot**
- The average riveting speed can be 1.8s/pcs, the success rate of riveting process is as high as 99.5%
- One-key switch, compatible with the riveting and production processes of multiple products
- Scope of application: 3C electronic engineering, machinery processing and household appliance



## Other Fields

### Three Proofing Paint Spraying

The spray flexibility is far above the three-axis mechanism

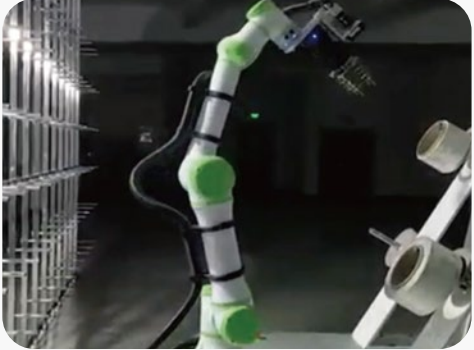
- **Model: G6 collaborative robot**
- Compact structure, flexible operation, free movement within narrow and confined space
- Solve the problem of “limited motion space” in the traditional solution of three-axis mechanism
- Scope of application: 3C electronic engineering, machinery processing and household appliance



### Composite Robot Yarn Tube Loading and Unloading

Intelligent identification, accurate grabbing

- **Model: G6 collaborative robot**
- Applies to environment with higher complexity and accuracy
- Intelligent warehousing, material tracking
- Scope of application: Storage, sorting, loading/unloading of yarns and materials



### Welding Station

Faster light, more flexible hand

- **Model: G6 collaborative robot**
- Remain gesture unchanged, three-point demonstration, complete 450° arc welding, to improve the welding efficiency
- Scope of application: Small-batch welding of household appliances, welding of different spare parts



### Lifting Robot Loading and Unloading

Flexible installation, lightweight and reliable

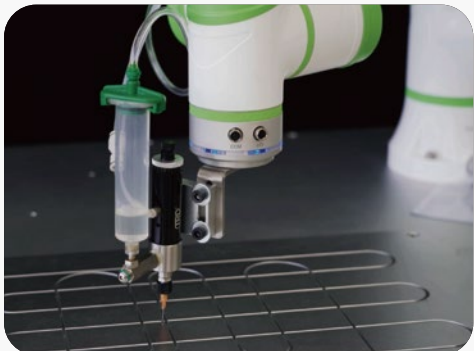
- **Model: G6 collaborative robot**
- Solve the problem of small space and confined activity of personnel, improve the production and assembly efficiency
- Finish installation, debugging and running within 2h
- Scope of application: Applies to loading/unloading scenario with strict requirements for land occupation



### Gluing

Smooth running, accurate track

- **Model: G6 collaborative robot**
- Smooth transition algorithm of track based on acceleration jerk, smooth running, even gluing
- Fast servo response, no glue shortage at the corner
- Scope of application: Application scenario with high-quality gluing



### Unpacking Robot

Easy installation, quick programming

- **Model: G12 collaborative robot**
- Reduce repeated work, improve efficiency
- Scope of application: Logistics and packaging



## Visual Loading Machine for Chip Packaging

### High speed and accuracy

- **Model: G6 collaborative robot**
- The production takt is below 2.1s, improve the production efficiency by 100% and realize cost-recovering within half a year
- Scope of application: Semiconductor sealing and testing and visual loading



the video of cases



## Cloth Hook

### Easy operation and handling

- **Model: G6 collaborative robot**
- Flexible control of clamp, breakthrough the technical bottleneck of cloth grabbing
- Applies to production of small-batch multi-type products, help clients upgrade the cloth hook system
- Scope of application: Spinning



the video of cases



## Stacking Workstation

### 0-code design, production replacement within 10min

- **Model: G12 collaborative robot**
- Built-in stacking process packet, easy handling
- Flexible installation, support hoisting and matching of column and lifting shaft
- Scope of application: Logistics and warehousing, beauty and daily necessities



the video of cases



## Wood Polishing

### Drag demonstration track, flexible grinding

- **Model: G6 and G12 collaborative robot**
- Common workers can start operation after simple training
- Switch grinding program to enter production quickly
- Scope of application: Wood processing



the video of cases



## Intelligent Surgical Shadowless Lamp

### High rigidity, low noise and zero radiation

- **Model: G6 collaborative robot**
- Intelligent voice control, auto adjustment of light source height and focus point
- High rigidity, pass the Class 2 authentication test of medical devices in Jiangsu
- Scope of application: Medical devices



the video of cases



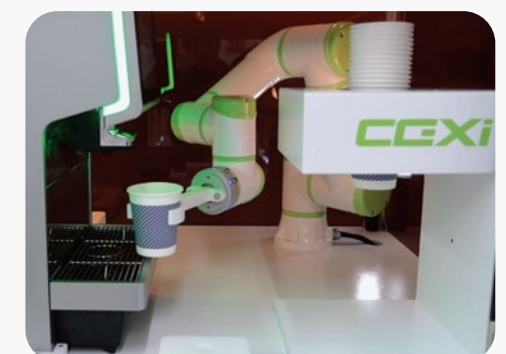
## Coffee Robot

### Unattended operation, pattern drawing

- **Model: G3 collaborative robot**
- Unattended operation
- Upload picture or handwritten signature to increase the fun of interaction
- Scope of application: New snack and catering



the video of cases



## AI robot scientist

### AGV composite robot, smart and capable

- **Model: G6 collaborative robot**
- Robots automatically process biochemical laboratory samples
- The power of G6 is only 1/4 of that of traditional industrial robots, and it has a longer endurance
- Scope of application: Biochemical laboratory, scientific research



## "6-in-1" Education Practice Platform

### A divine tool for education and training

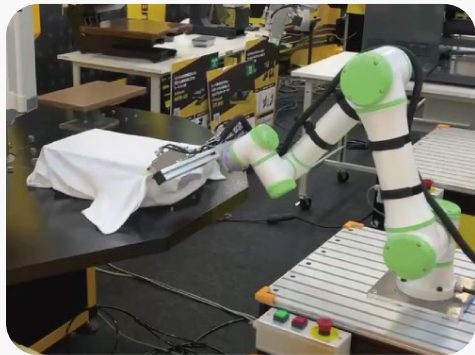
- **Model: G6 collaborative robot**
- Typical application scenarios include robot handling, palletizing, polishing, and assembly
- Integrating multidisciplinary expertise in mechanical, electrical, software programming, communication, and other fields of robotics and integrated systems
- Scope of application: University laboratories, training institutions



## Loading and unloading of textile printing machines

### Sailing to Japan

- **Model: G6 collaborative robot**
- The combination of grippers and flexible force control breaks through the bottleneck of difficult cloth grasping
- One machine with multiple functions, capable of gripping fabrics of different sizes and thicknesses
- Scope of application: Textile



## Wax model group tree workstation

### Double arm collaboration, intelligent and flexible

- **Model: G6 collaborative robot**
- Replacing traditional manual tree grouping methods significantly improves the efficiency of tree grouping
- Effectively improving welding consistency to meet customer's high-quality production needs
- Scope of application: precision casting



## Screen printing machine cutting workstation

### One click start, perfect partner for the screen printing machine

- **Model: G4 collaborative robot**
- Replacing traditional manual handling of printed materials, efficiency increases by 30%
- Collaborative robots and screen printing machines are interlocked in signal, ensuring safety and worry free operation
- Scope of application: silk screen printing machine



## Noodle Cooking Robot

### Unmanned noodle shops, a new trend in catering

- **Model: G6 collaborative robot**
- Automatically complete the entire process of picking and cooking noodles
- Stable product taste and personalized service
- Scope of application: catering, new retail



# Certification System and Social Honors



.....

# Cooperative Partners



# Our Services



**Training Service**  
Robot technology  
Industry case sharing  
Online/offline discussion



**Integration Service**  
Plan risk evaluation  
Field assistance of implementation  
Regular return visit about satisfaction



**After-sales Service**  
Life-long maintenance  
24h response  
Free upgrade of software