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CRP
CRP AUTOMATION

www.umpi3d.com



Make the best use of robots!

Production Demonstration

Special integrated drive-controller for robot

We created the high-performance integrated drive-controller by our professional team.



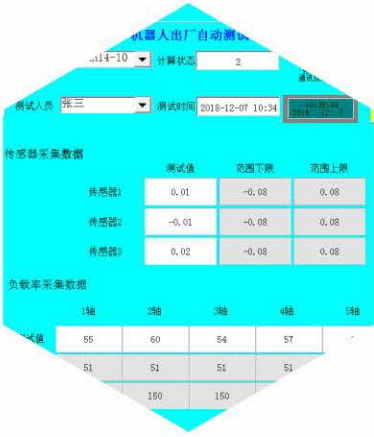
Robot Controller

Years of cultivation.
Tens of thousands of application.
More than 50% market share.



Factory Test

13 fully automated tests ensure consistency of the batch product.



Type Test

16 major items test and 64 minor items test ensure reliability and quality.



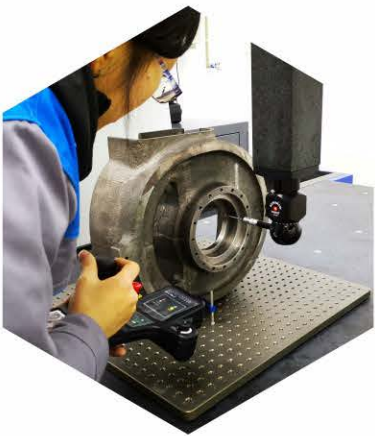
Production Process

Strict production process, consistent and efficient.



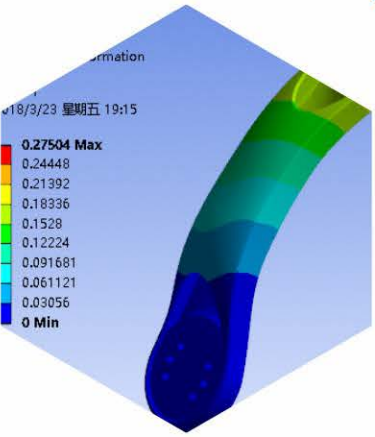
Component Inspection

The strict inspection of components ensures accuracy and quality.



Mechanical Design

Strictly and elaborately designed by our precise transmission design team.



Intelligent Sensor

Expanding the depth and breadth of the industry
Simple and easy to use
Comprehensive and full-featured



CRP-RH14-10

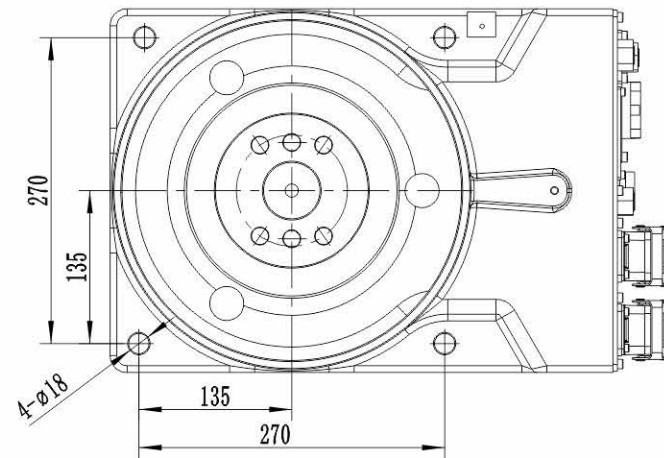
Industrial Robot Handling Application



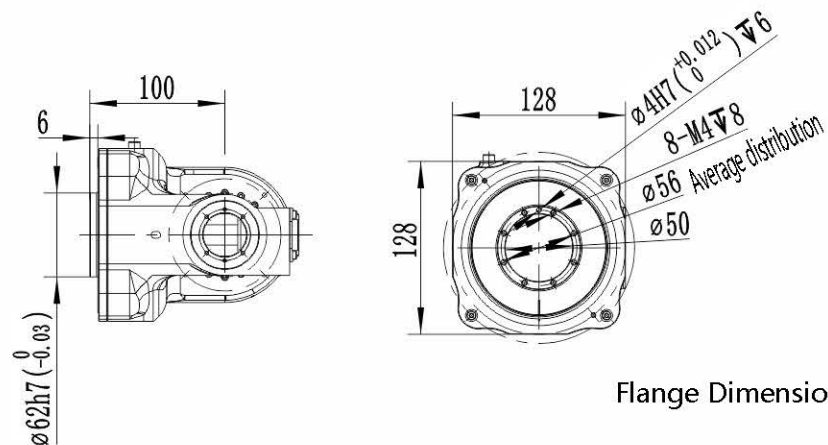
Functional Features

- ★ Payload is 10kg. The arm span is 1.4 meters. It can be installed on the ground or upside down flexibly.
- ★ With large working space and fast running speed, it is suitable for welding, spraying, loading and unloading, handling, sorting, assembling and other applications.
- ★ The safety emergency stop board is independent of the controller, and the safety relay circuit is adopted to provide double circuit emergency stop to ensure the reliability of emergency stop.
- ★ The robot body cables are made of special cables for flexible robots.
Built-in three-phase transformer, 380V and 200V isolation, more stable power supply.
(Power supply requirements can be customized for different countries.)
- ★ Built-in three phase filter can effectively improve the performance of EMC and EMI.
- ★ The robot body is with dual-circuit gas pipe and meets welding and handling requirements

Installation Interface Diagram

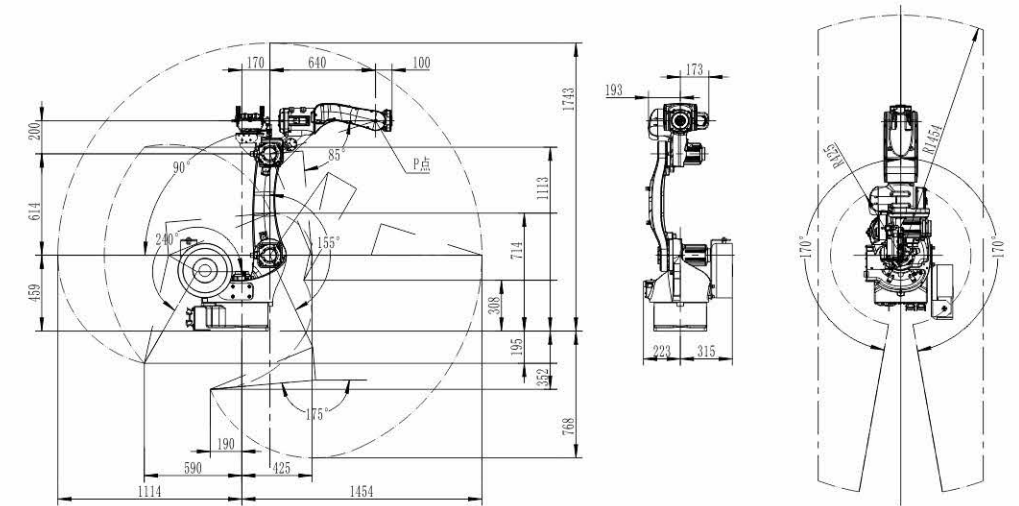


Installation Dimension of Base



Flange Dimensions

Motion Range Diagram



Robot Body Technical Parameters

Model		CRP-RH14-10
Arm form		Vertical multiple joints
Degree of freedom		6 axis
Maximum payload		10KG
Maximum travel	axis 1	-167° - 167°
	axis 2	0° - 175°
	axis 3	-80° - 150°
	axis 4	-190° - 190°
	axis 5	-105° - 130°
	axis 6	-210° - 210°
Maximum speed	axis 1	169°/S
	axis 2	169°/S
	axis 3	169°/S
	axis 4	280°/S
	axis 5	240°/S
	axis 6	520°/S
Allowable torque	axis 4	10N.m
	axis 5	10N.m
	axis 6	3N.m
Allowable moment of inertia	axis 4	0.25kg.m ²
	axis 5	0.25kg.m ²
	axis 6	0.05kg.m ²
Repeated positioning accuracy		±0.08mm、
Maximum reaching distance		1440mm
Robot body weight		170KG
Installation mode		Ground or upside down mounting
Installation environment	ambient temperature	0~45°C
	relative humidity	20~80% (No condensation)
	vibration	Under 0.5 G
Others		Robot installation must be away from: Flammable or corrosive liquids or gases, electrical sources of interference
IP level		IP56
Advantage features		Compact structure, high speed, high precision, high expansibility and easy operation
Application		cutting, assembly, handling, marking, grinding

CRP-RH18-20

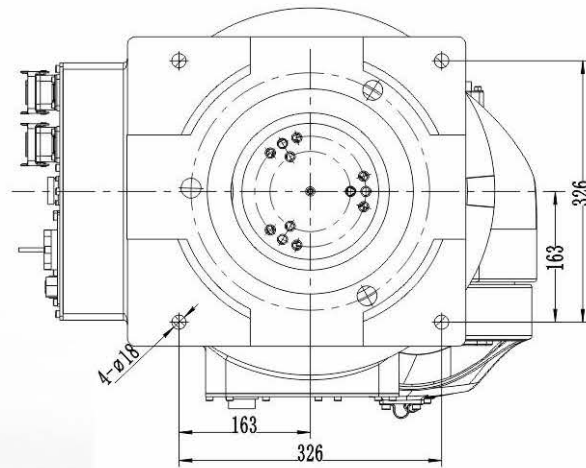
Industrial Robot Handling Application



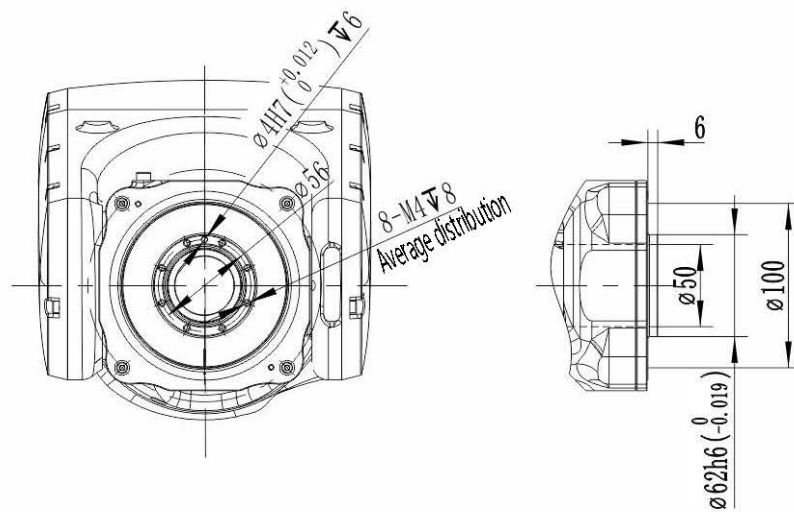
Functional Features

- ★ With compact design 20kg payload and about 1.8 meters arm span, it can be installed on the ground or upside down flexibly.
- ★ With large working space and fast running speed, it is suitable for welding, spraying, loading and unloading, handling, sorting, assembling and other applications.
- ★ The safety emergency stop board is independent of the controller, and the safety relay circuit is adopted to provide double circuit emergency stop to ensure the reliability of emergency stop.
- ★ The robot body cables are made of special cables for highly flexible robots.
- ★ Built-in three-phase transformer, 380V and 200V isolation, more stable power supply.
- ★ Power supply requirements can be customized for different countries. Built-in three-phase filter can effectively improve the performance of EMC and EMI.
- ★ The robot body is with dual-circuit gas pipe and meets welding and handling requirements.

Installation Interface Diagram

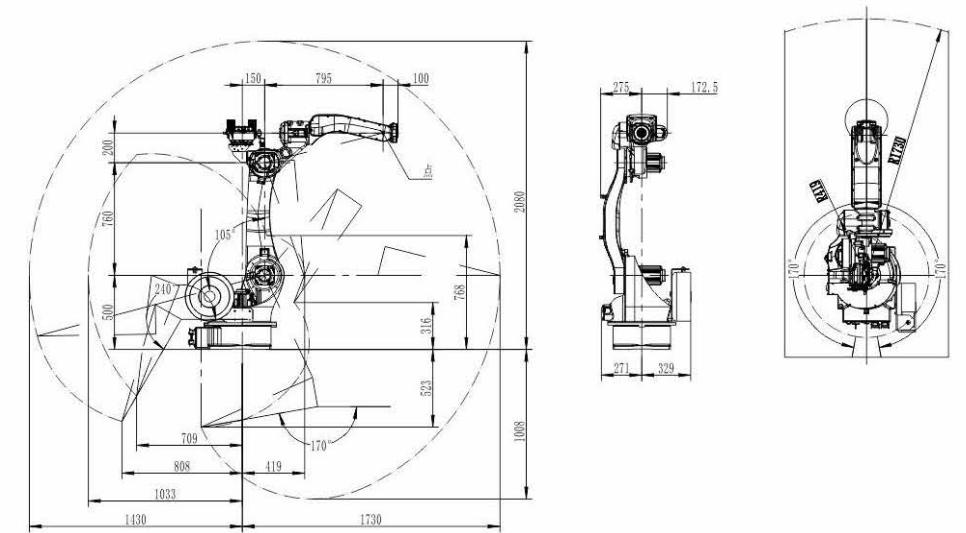


Installation Dimension of Base



Flange Dimensions

Motion Range Diagram



Robot Body Technical Parameters

Model	CRP-RH18-20	
Arm form	Vertical multiple joints	
Degree of freedom	6 axis	
Maximum payload	20KG	
Maximum travel	axis 1	-167° - 167°
	axis 2	0° - 175°
	axis 3	-80° - 150°
	axis 4	-190° - 190°
	axis 5	-105° - 130°
	axis 6	-210° - 210°
Maximum speed	axis 1	159°/S
	axis 2	159°/S
	axis 3	169°/S
	axis 4	280°/S
	axis 5	240°/S
	axis 6	483°/S
Allowable torque	axis 4	48N.m
	axis 5	48N.m
	axis 6	28N.m
Allowable moment of inertia	axis 4	1.8kg.m ²
	axis 5	1.8kg.m ²
	axis 6	0.8kg.m ²
Repeated positioning accuracy	±0.08mm、	
Maximum reaching distance	1720mm	
Robot body weight	285KG	
Installation mode	Ground or upside down mounting	
Installation environment	ambient temperature	0~45°C
	relative humidity	20~80% (No condensation)
	vibration	Under 0.5 G
Others		Robot installation must be away from: Flammable or corrosive liquids or gases, electrical sources of interference
IP level	IP56	
Advantage features	Compact structure, high speed, high precision, high expansibility and easy operation	
Application	Cutting, assembly, handling, marking, grinding	

CRP-RA09-06

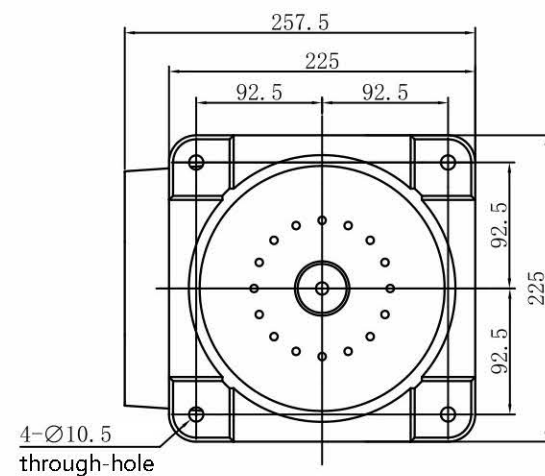
Industrial Robot Handling Application



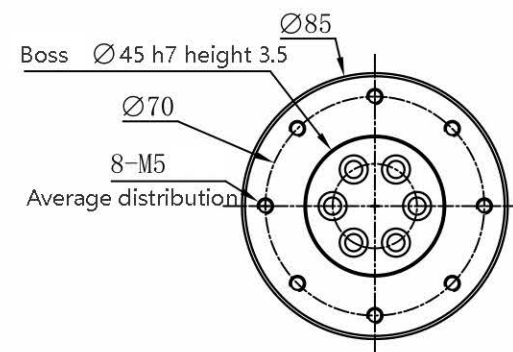
Functional Features

- ★ Well-knit design makes the robot body more slender than other same level product, so it is more flexible even in a small space, also keep a very low rate of collision with surrounding devices.
- ★ Maximum reach 915 mm.
- ★ Lighter structure design than other same level product, so it is easy to install inside a system or to mount upside-down.
- ★ High rigidity arm and top level servo control technology guarantee the smoothness and stability while the movement.
- ★ Rated payload 6 kg, easily applied in multi application.
- ★ Built-in cable, no more catheter and cable twisting on the arm. Leak-proof structure, can be applied in dust and oil-mist environment.

Installation Interface Diagram

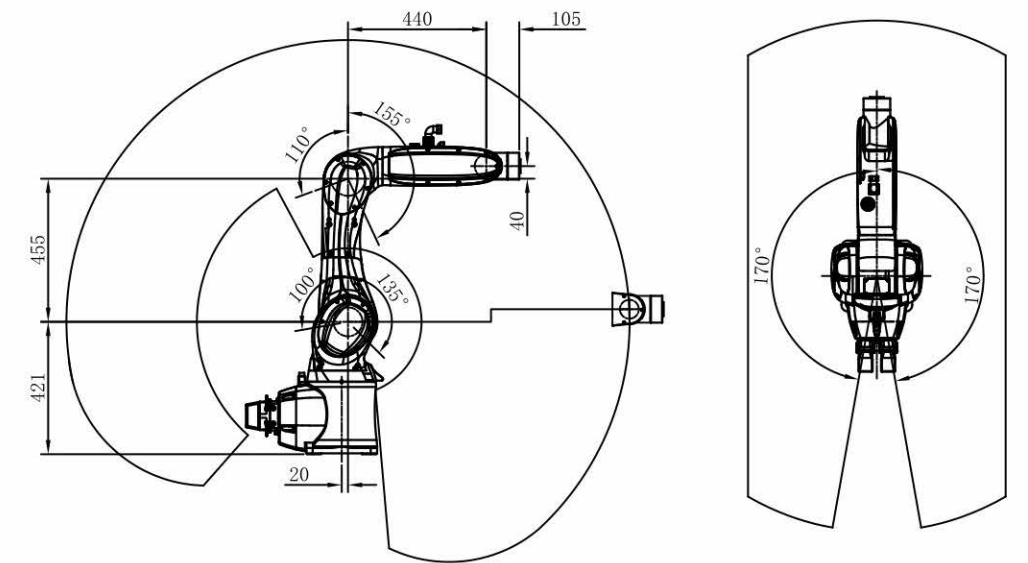


Installation Dimension of Base



Flange Dimensions

Motion Range Diagram



Robot Body Technical Parameters

Model		CRP-RA09-06
Arm form		Vertical multiple joints
Degree of freedom		6 axis
Maximum payload		6KG
Maximum travel	axis 1	-170° - 170°
	axis 2	-45° - 190°
	axis 3	-155° - 110°
	axis 4	-170° - 170°
	axis 5	-120° - 120°
	axis 6	-360° - 360°
Maximum speed	axis 1	337.5°/S
	axis 2	270°/S
	axis 3	375°/S
	axis 4	300°/S
	axis 5	375°/S
	axis 6	468°/S
Repeated positioning accuracy		±0.03m
Maximum reaching distance		915mm
Robot body weight		60KG
Installation mode		Ground or upside down mounting
Installation environment	ambient temperature	0~45°C
	relative humidity	20~80% (No condensation)
	vibration	Under 0.5 G
	Others	Robot installation must be away from: Flammable or corrosive liquids or gases, electrical sources of interference
IP level		IP65
Advantage features		Compact structure, high speed, high precision, high expansibility and easy operation
Application		Cutting, assembly, handling, marking, grinding

CRP-RH18-20-W

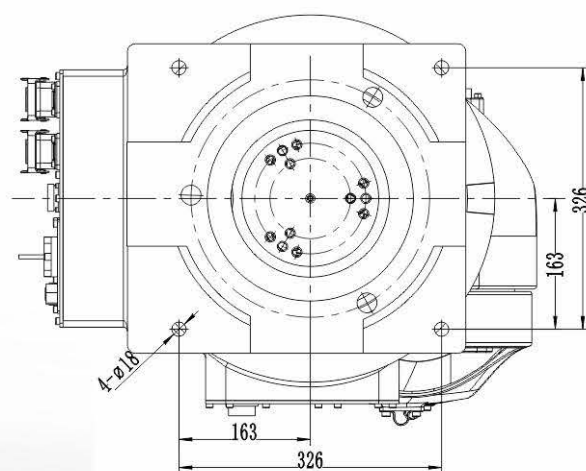
Industrial Robot Welding Application



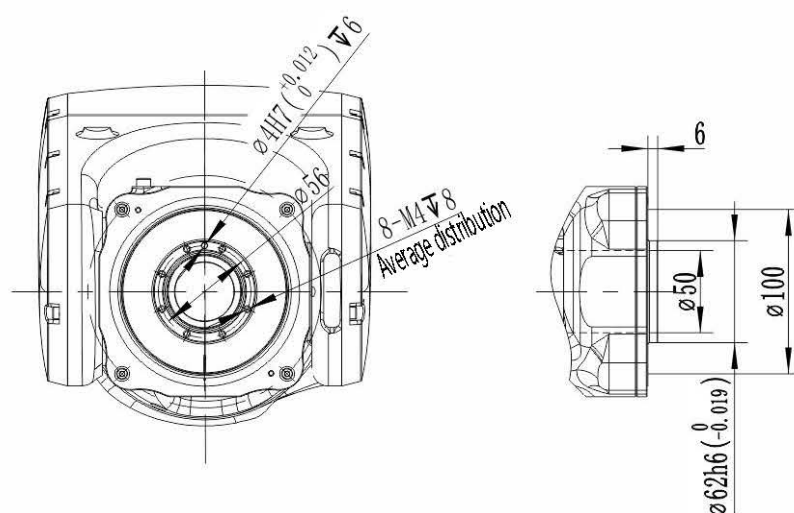
Functional Features

- ★ With compact design 20kg payload and about 1.8 meters arm span, it can be installed on the ground or upside down flexibly.
- ★ With large working space and fast running speed, it is suitable for welding, spraying, loading and unloading, handling, sorting, assembling and other applications.
- ★ The safety emergency stop board is independent of the controller, and the safety relay circuit is adopted to provide double circuit emergency stop to ensure the reliability of emergency stop.
- ★ The robot body cables are made of special cables for highly flexible robots.
- ★ Built-in three-phase transformer, 380V and 200V isolation, more stable power supply.
- ★ Power supply requirements can be customized for different countries. Built-in three-phase filter can effectively improve the performance of EMC and EMI.
- ★ The robot body is with dual-circuit gas pipe and meets welding and handling requirements
- ★ The inner diameter of 6-axis middle hole is 46 mm, which can meet the installation requirements of water-cooled gun and bellows gun.
- ★ It's with highly flexible built-in welding cable.

Installation Interface Diagram

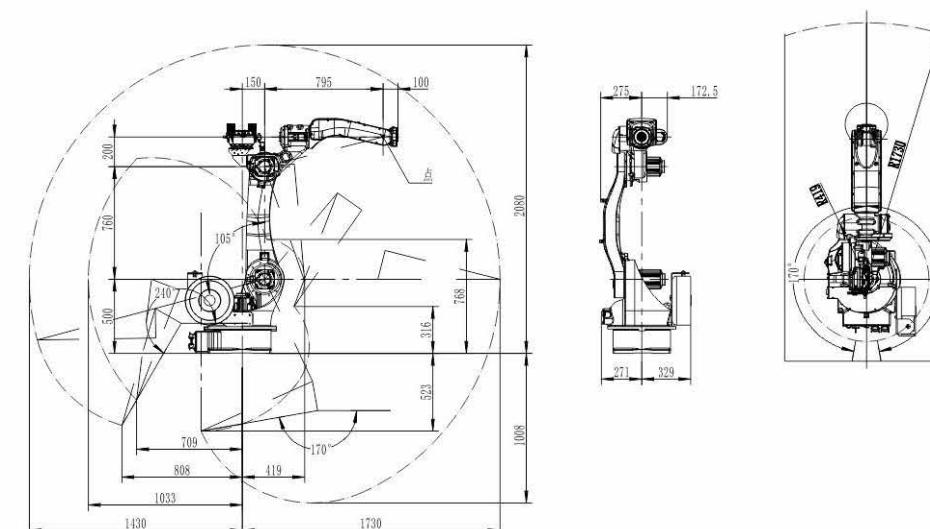


Installation Dimension of Base



Flange Dimensions

Motion Range Diagram



Robot Body Technical Parameters

Model	CRP-RH18-20	
Arm form	Vertical multiple joints	
Degree of freedom	6 axis	
Maximum payload	20KG	
Maximum travel	axis 1	-167° - 167°
	axis 2	0° - 175°
	axis 3	-80° - 150°
	axis 4	-190° - 190°
	axis 5	-105° - 130°
	axis 6	-210° - 210°
Maximum speed	axis 1	159°/S
	axis 2	159°/S
	axis 3	169°/S
	axis 4	280°/S
	axis 5	240°/S
	axis 6	483°/S
Allowable torque	axis 4	48N.m
	axis 5	48N.m
	axis 6	28N.m
Allowable moment of inertia	axis 4	1.8kg.m ²
	axis 5	1.8kg.m ²
	axis 6	0.8kg.m ²
Repeated positioning accuracy	±0.08mm、	
Maximum reaching distance	1720mm	
Robot body weight	285KG	
Installation mode	Ground or upside down mounting	
Installation environment	ambient temperature	0~45°C
	relative humidity	20~80% (No condensation)
	vibration	Under 0.5 G
Others		Robot installation must be away from: Flammable or corrosive liquids or gases, electrical sources of interference
IP level	IP56	
Advantage features	Compact structure, high speed, high precision, high expansibility and easy operation	
Application	Cutting, assembly, handling, marking, grinding	

CRP-RH14-10-W

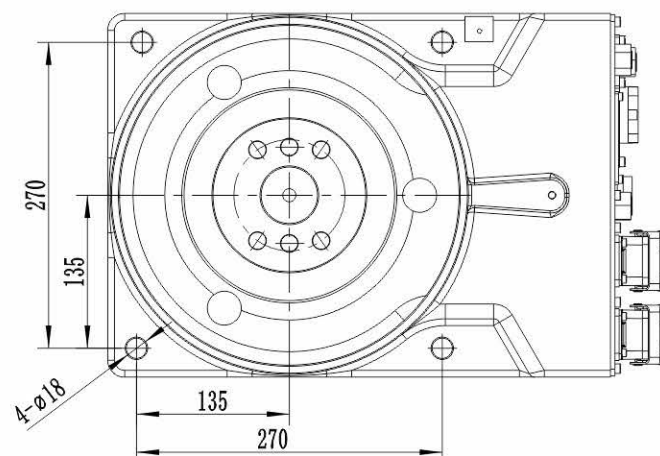
Industrial Robot Welding Application



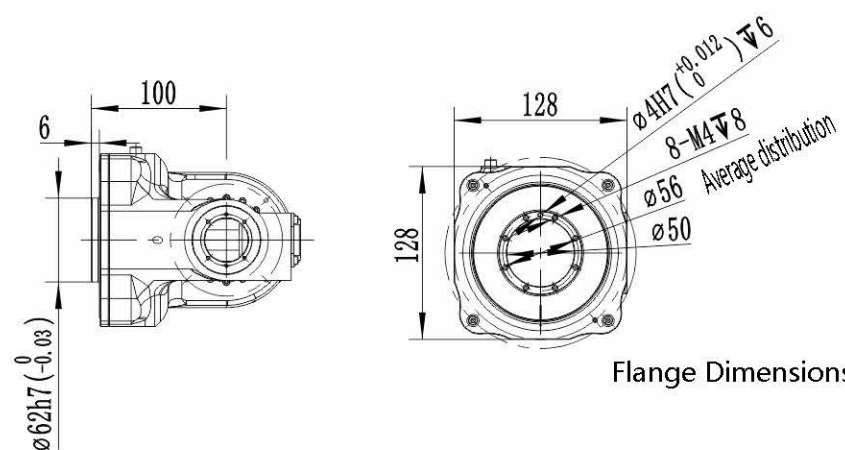
Functional Features

- ★ The arm span is 1.4 meters. It can be installed on the ground or upside down flexibly.
- ★ With large working space and fast running speed, it is suitable for welding, spraying, loading and unloading, handling, sorting, assembling and other applications.
- ★ The safety emergency stop board is independent of the controller, and the safety relay circuit is adopted to provide double circuit emergency stop to ensure the reliability of emergency stop.
- ★ The robot body cables are made of special cables for flexible robots.
- ★ Built-in three-phase transformer, 380V and 200V isolation, more stable power supply. Power supply requirements can be customized for different countries. Built-in three-phase filter can effectively improve the performance of EMC and EMI.
- ★ The robot body is with dual-circuit gas pipe and meets welding and handling requirements
- ★ The inner diameter of 6-axis middle hole is 46 mm, which can meet the installation requirements of water-cooled gun and bellows gun.
- ★ It's with highly flexible built-in welding cable.

Installation Interface Diagram

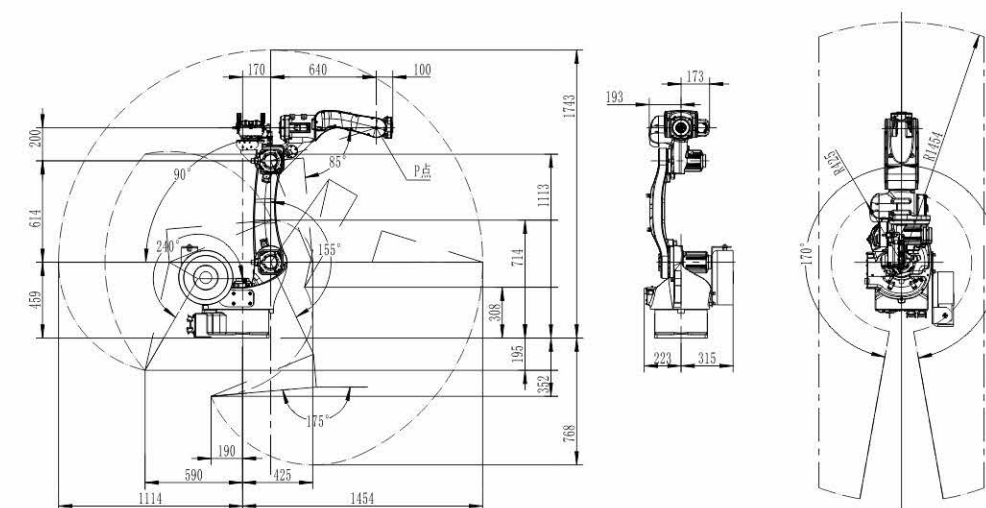


Installation Dimension of Base



Flange Dimensions

Motion Range Diagram



Robot Body Technical Parameters

Model	CRP-RH14-10-W	
Arm form	Vertical multiple joints	
Degree of freedom	6 axis	
Maximum payload	10KG	
Maximum travel	axis 1	-167° - 167°
	axis 2	0° - 175°
	axis 3	-80° - 150°
	axis 4	-190° - 190°
	axis 5	-105° - 130°
	axis 6	-210° - 210°
Maximum speed	axis 1	169°/S
	axis 2	169°/S
	axis 3	169°/S
	axis 4	280°/S
	axis 5	240°/S
	axis 6	520°/S
Allowable torque	axis 4	10N.m
	axis 5	10N.m
	axis 6	3N.m
Allowable moment of inertia	axis 4	0.25kg.m ²
	axis 5	0.25kg.m ²
	axis 6	0.05kg.m ²
Repeated positioning accuracy	±0.08mm、	
Maximum reaching distance	1440mm	
Robot body weight	170KG	
Installation mode	Ground or upside down mounting	
Installation environment	ambient temperature	0~45°C
	relative humidity	20~80% (No condensation)
	vibration	Under 0.5 G
Others	Robot installation must be away from: Flammable or corrosive liquids or gases, electrical sources of interference	
IP level	IP56	
Advantage features	Compact structure, high speed, high precision, high expansibility and easy operation	
Application	cutting, assembly, handling, marking, grinding	

CRP-RH20-10-W

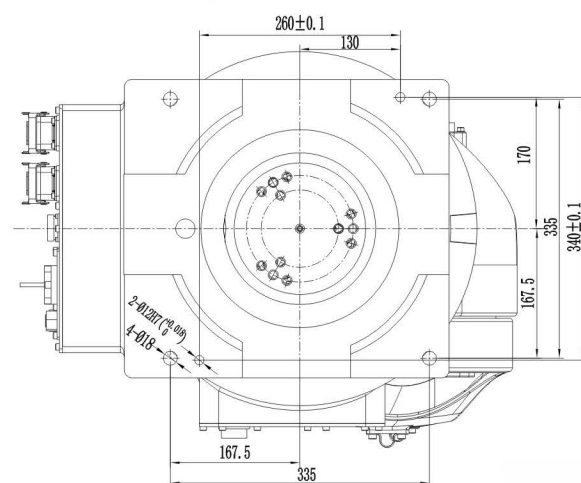
Industrial Robot **Welding** Application



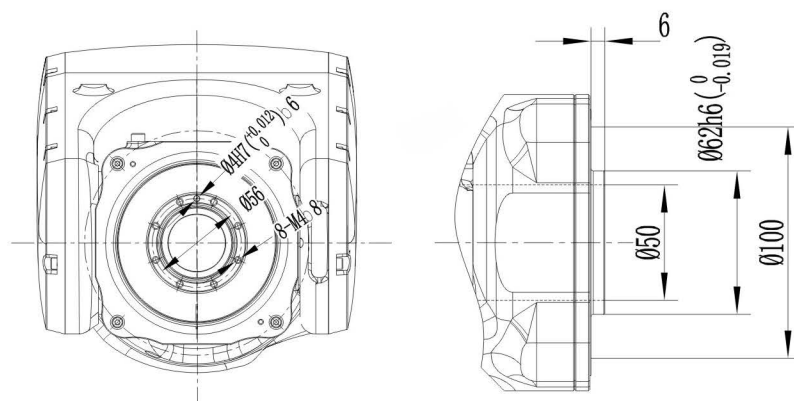
Functional Features

- ★ With compact design 10kg payload and about 2.0 meters arm span, it can be installed on the ground or upside down flexibly.
- ★ With large working space and fast running speed, it is suitable for welding, spraying, loading and unloading, handling, sorting, assembling and other applications.
- ★ The safety emergency stop board is independent of the controller, and the safety relay circuit is adopted to provide double circuit emergency stop to ensure the reliability of emergency stop.
- ★ The robot body cables are made of special cables for highly flexible robots.
- ★ Built-in three-phase transformer, 380V and 200V isolation, more stable power supply.
- ★ Power supply requirements can be customized for different countries. Built-in three-phase filter can effectively improve the performance of EMC and EMI.
- ★ The robot body is with dual-circuit gas pipe and meets welding and handling requirements
- ★ The inner diameter of 6-axis middle hole is 46 mm, which can meet the installation requirements of water-cooled gun and bellows gun.
- ★ It's with highly flexible built-in welding cable.

Installation Interface Diagram

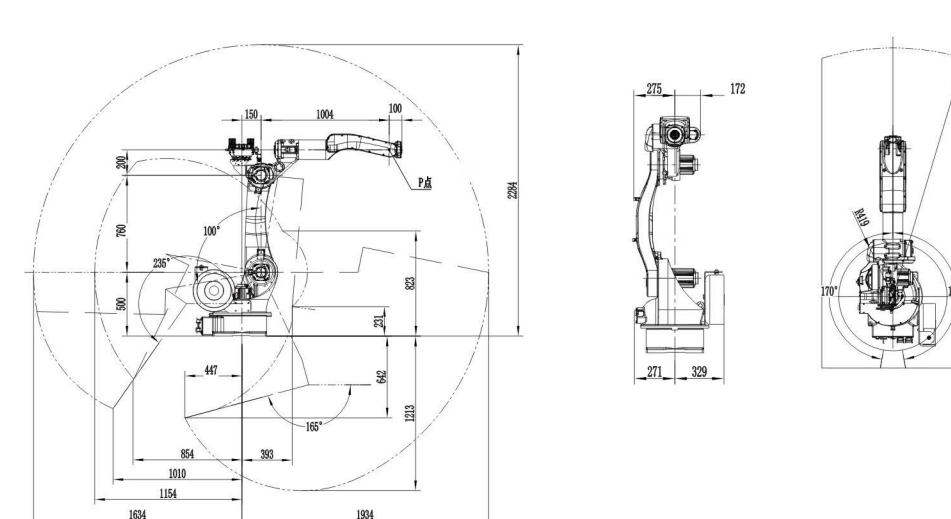


Installation Dimension of Base



Flange Dimensions

Motion Range Diagram



Robot Body Technical Parameters

Model		CRP-RH20-10-W
Arm form		Vertical multiple joints
Degree of freedom		6 axis
Maximum payload		10KG
Maximum travel	axis 1	Ground/upside down mounting -167°~167°, wall mounting -30°~30°
	axis 2	0° - 175°
	axis 3	-80° - 150°
	axis 4	-190° - 190°
	axis 5	-105° - 130°
	axis 6	-210° - 210°
Maximum speed	axis 1	159°/S
	axis 2	159°/S
	axis 3	169°/S
	axis 4	280°/S
	axis 5	240°/S
	axis 6	483°/S
Allowable torque	axis 4	24N.m
	axis 5	24N.m
	axis 6	14N.m
Allowable moment of inertia	axis 4	1.4kg.m ²
	axis 5	1.4kg.m ²
	axis 6	0.5kg.m ²
Repeated positioning accuracy		±0.08mm、
Maximum reaching distance		1920mm
Robot body weight		288KG
Installation mode		Ground or upside down mounting or wall mouting
Installation environment	ambient temperature	0~45°C
	relative humidity	20~80% (No condensation)
	vibration	Under 0.5 G
	Others	Robot installation must be away from: Flammable or corrosive liquids or gases, electrical sources of interference
IP level		Body IP54 , wrist IP
Advantage features		Compact structure, high speed, high precision, high expansibility and easy operation
Application		Welding, cutting, assembly, handling, marking, grinding