CRP-RA09A-07

INDUSTRIAL ROBOT

MAIN FEATURES

Arm Form
Vertical multiple joints

Degree of Freedom
6 axis

Maximum Payload
7 kg

Robot Body Weight
46 kg

Repeated Positioning Accuracy
±0.03 mm

Maximum Reaching Distance
916 mm

NO ERRORS

The modular design helps to reduce drastically the failure rate of the robot.

COMPACT DESIGN

The compact design of the robot facilitates its use in confined spaces. The structure is also waterproof.

HIGH CAPACITY

The arm span is 712-916 mm and the nominal payload is 6-7 kg. The payload capacity of this robot stands out among its class.

MULTIPLE POSITIONS

Since the robot's body is lighter than others in its class, it can be easily installed in any position, even upside down.

SMOOTH MOVEMENT

The highly rigid arm and high-level servo control technology ensure smoothness and stability during robot movement.

VERSATILITY

The robot body has multiple user-supported installation platforms, which is very convenient for attaching cables and related auxiliary tools.

CUSTOMIZABLE

Integrated and external cables are attached to the base to meet customization requirements.

ROBOT BODY TECHNICAL PARAMETERS

Arm Form	Vertical Multiple Joints
Degree of Freedom	6 axis
Maximum Payload	7 kg

Maximum Travel

Axis 1	Axis 2	Axis 3	Axis 4	Axis 5	Axis 6
-170°~170°	-42°~120°	-62°~180°	-185°~185°	-120°~125°	-360°~360°

Maximum Speed

Axis 1	Axis 2	Axis 3	Axis 4	Axis 5	Axis 6
255° /S	290° /S	330° /S	490° /S	410° /S	680° /S

Allowable Torque

Axis 4	Axis 5	Axis 6
16.2 N x m	16.2 N x m	9.5 N x m

Allowable Moment of Inertia

Axis 4	Axis 5	Axis 6
0.38 kg x m²	0.38 kg x m²	0.16 kg x m²

Repeated Positioning Accuracy	±0.03 mm
Maximum Reaching Distance	916 mm
Electric Cabinet Configuration	G9
IP Level	Body IP54 , Wrist IP65
Noise Level	<75dB(A)*

INSTALLATION ENVIRONMENT

Application	Welding, Cutting, Assembly, Handling, Marking, Grinding	
Robot Body Weight	Installation Mode	Electric Cabinet Configuration
46 kg	Ground, Upside Down Mounting	G5
Operative Temperature	Relative Humidity	Vibration
0~45 °C	20~80 % (No Condensation)	Under 0.5 G

The robot must be installed away from flammable or corrosive liquids or gases, electrical sources of interference.

INDUSTRIAL ROBOT CONTROL CABINET CRP-G5-CD60

The CRP G5 CD60 electrical cabinet excells in performance, safety, stability and operability. The CRP G5 CD60 electrical cabinet has compact structure and convenient design for heat dissipation and dust prevention. Due to its size, the CRP G5 CD60 electrical cabinet is more flexible in on-site layout. In addition, the external I/O and data interface provides great convenience in application and floor operation. The CRP G5 CD60 electrical cabinet has been carefully designed to provide you with the best robot controller user experience.

TEACHING PENDANT

- 8-inch TFT-LCD

- Keyboard + touch screen

- Mode selection switch

- Safety switch

- Emergency stop button

CONTROLLED AXES

- 6+2 axes

MORE FEATURES

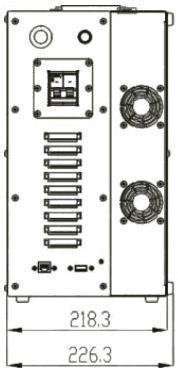
- Compact electrical cabinet that takes up less floor space

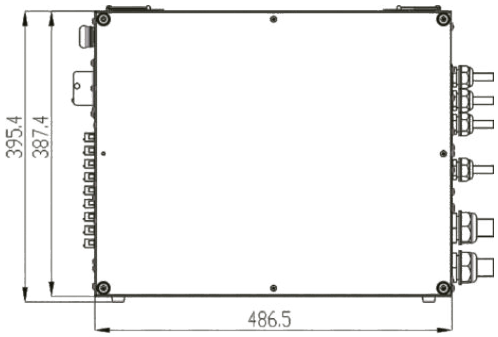
- Multiple set up and installation methods, to increase flexibility

- Quick plug built in by default, to ease wiring needs

- Independent air duct to prevent dust from entering and ensure long-term stability

- Multiple interfaces that supports several different communication protocols





CABINET TECHNICAL SPECS

Dimension / Weight	IP level	User memory
486.5 × 218.3 × 395.4 mm / 37.5 kg	IP20	200MB
Input Power		
Single-phase AC220V±15% 50/60Hz,PE ground cable		
Cables	5 m	
Robot Safety	External emergency stop, anti-collision system, safety bolt interface, etc.	
Operation Mode		
Teach, Reconstruct, Remote, Point-to-point, Straight line, Circle		
Errors Detection	Abnormal stop, servo, user coordination, tool coordination, safety maintenance, etc.	
Coordinated System	Motion, Logic, Process, Operation	

ENVIRONMENT SPECS

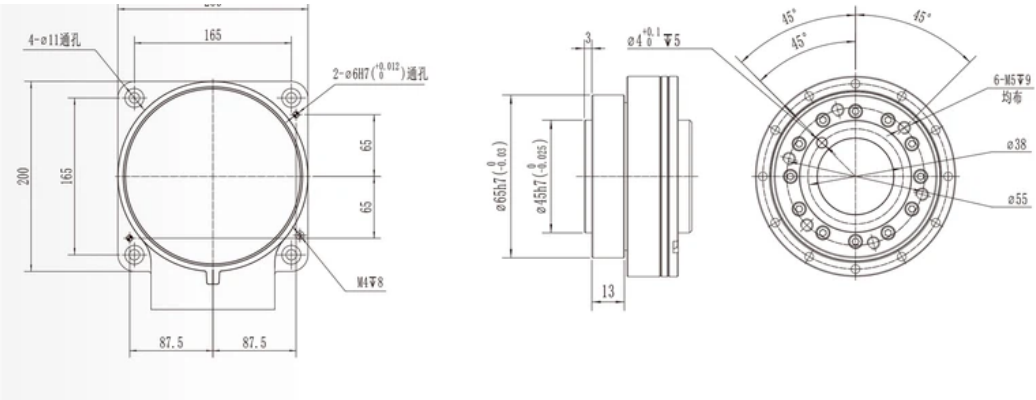
Storage Temperature	Operating Temperature	Relative Humidity
-20-65° C	0-55° C	0-99% (no condensation)
Indoor (avoid direct sunlight), no corrosive gas		

INTERFACE

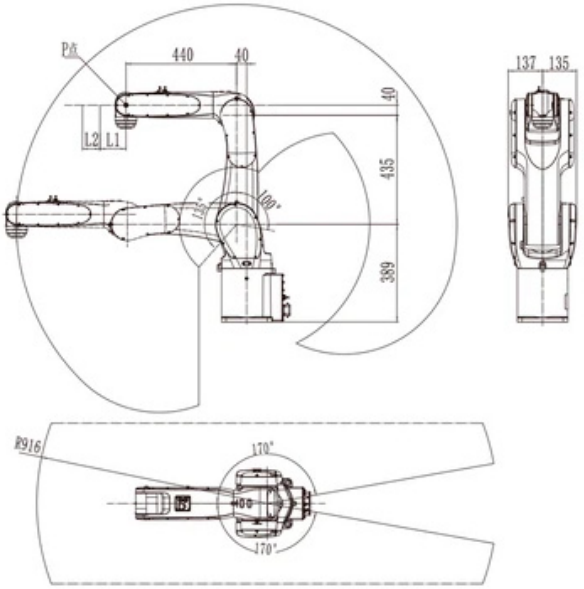
4-way 0~10V analog output, 12-bit accuracy (expandable COM)	
Digital I/O interface, 22 input/output (expandable COM)	Encoder signal interface (position tracking)
Ethernet communication interface, 2 USB ports	
Communication interface: RS484, RS232, CAN	Expandable: Profinet, cclink

*Built-in PLC, power off regeneration, encoder interface (support synchronous belt), arc tracking and accessories (optional), visual software (optional), laser tracking software (optional), etc.

INSTALLATION INTERFACE DIAGRAM



WORKING RANGE DIAGRAM



EXTREME ROBOTS by CROBOTP
extremewelds.com

Estados Unidos
2135 NW 115th Ave, Miami FL
+1 305 470-4513

Bogotá, Colombia
Calle 17 #22-28, Barrio Paloquemao,
CP 111411
(+57) 601 743-3131

Brasil
Av Arquimides No. 1070 C. I. Siprel CIS I
B. Casa Branca, Galpao 7 Jundiai, SP,
(+55) 11 4765-6707

Cali, Colombia
Carrera 31 A #10A-129, CP 760041
(+57) 602 335-1214

México
KM 1+37, Bodega D1, Col. Terrapark
Centenario, El Marqués, Querétaro.
(+52) 44 2926-9677

Medellín, Colombia
Calle 42 B #64-08 Local 21, CP 050031
(+57) 604 605-3131

Venezuela
Terrazas de Castillito, C.C. Lufeca Local
Nº 2, San Diego, Valencia, Carabobo.
(+58) 424 414-1923