

CRP-RA15-12

INDUSTRIAL
ROBOT



MAIN FEATURES

Arm Form

Vertical multiple joints

Degree of Freedom

6 axis

Maximum Payload

12 kg

Robot Body Weight

160 kg

Repeated Positioning Accuracy

±0.05 mm

Maximum Reaching Distance

1510 mm

NO ERRORS

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

COMPACT DESIGN

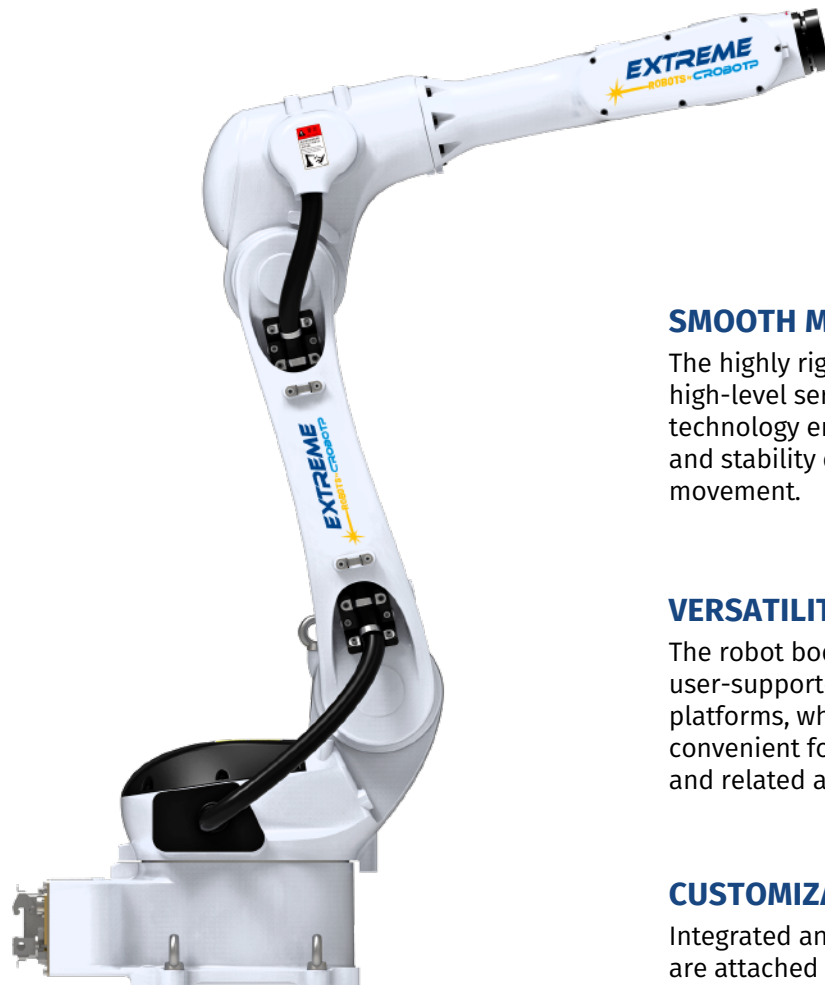
The compact design of the robot facilitates its use in confined spaces. The structure is also waterproof.

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	12 kg				
Maximum Travel					
Axis 1	Ground/Upside Down Mounting -170°~170°, Wall Mounting -30°~30°				
Axis 2	Axis 3	Axis 4	Axis 5	Axis 6	
-60°~175°	-90°~150°	-190°~190°	-135°~135°	-360°~360°	
Maximum Speed					
Axis 1	Axis 2	Axis 3	Axis 4	Axis 5	Axis 6
235°/S	208°/S	235°/S	376°/S	440°/S	698°/S
Allowable Torque					
Axis 4		Axis 5		Axis 6	
23 N x m		23 N x m		9.3 N x m	
Allowable Moment of Inertia					
Axis 4		Axis 5		Axis 6	
0.63 kg x m ²		0.63 kg x m ²		0.17 kg x m ²	
Repeated Positioning Accuracy			±0.05 mm		
Maximum Reaching Distance			1510 mm		
IP Level			Wrist Ip67, Others IP54		

INSTALLATION ENVIRONMENT

Application	Loading and Unloading, Palletizing, Welding, Dispensing, Spraying	
Robot Body Weight	Installation Mode	Electric Cabinet Configuration
160 kg	Ground, Upside Down, Wall Mounting	G4/G5+External Transformer
Operative Temperature	Relative Humidity	Vibration
0~45 °C	38~85 % (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-E60-G4

TEACHING PENDANT

- 8-inch TFT-LCD
- Keyboard + touch screen
- Mode selection switch
- Safety switch
- Emergency stop button

CONTROLLED AXES

- 6+2 axes (The standard configuration is 6 axes, and 2 external axes can be added)

MORE FEATURES

Built-in PLC regenerative braking (optional), encoder interface (support synchronous belt), arc tracking and accessories (optional), visual software (optional), laser tracking software (optional), etc.

CABINET TECHNICAL SPECS

Dimension / Weight		Power Supply		User Memory	
550 × 785 × 410 / 90kg		Three phase 380V 50-60HZ		200MB	
Dedicated Specific Interface			Arc welding, Workstation		
Cables	3 m	Operation Mode		Remote Teach Pendant	
Robot Safety		External Emergency Stop, Anti-Collision System, Safety Latch and Other Interfaces, MC safety Circuit, Servo Softening, etc.			
Errors Detection					
Abnormal Stop, Servo, User Coordination, Tool Coordination, Safety Maintenance, Arcing, etc.					
Coordinated System		Joint, Rectangular, User, Tool, Base Coordinate			
Software Package		Welding, Handling, Palletizing, and Painting Available			

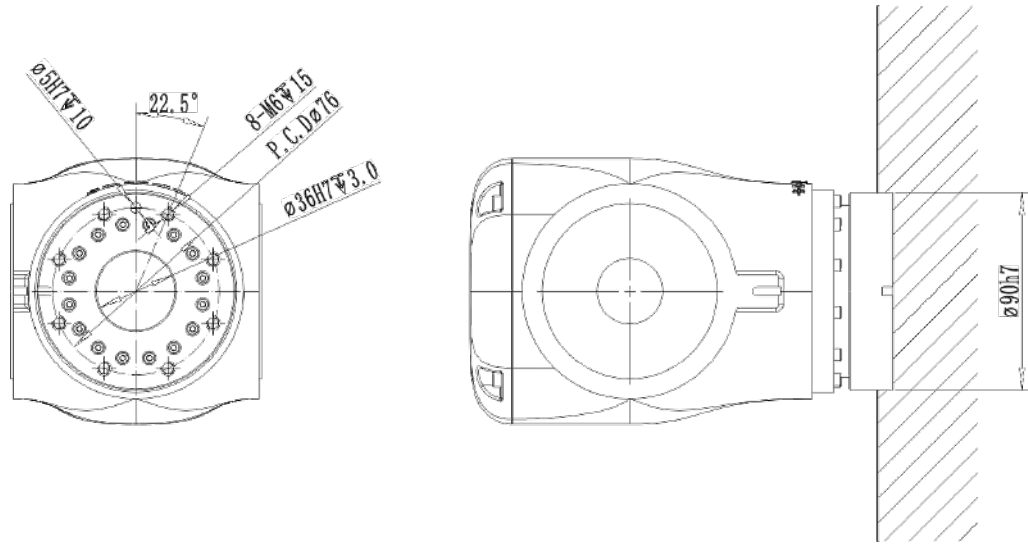
INTERFACE

Digital I/O interface, 24 input/output (expandable COM)	2 USB interface
1 encoder signal interface (position tracking)	RJ45 network port (modbus TCP/IP)

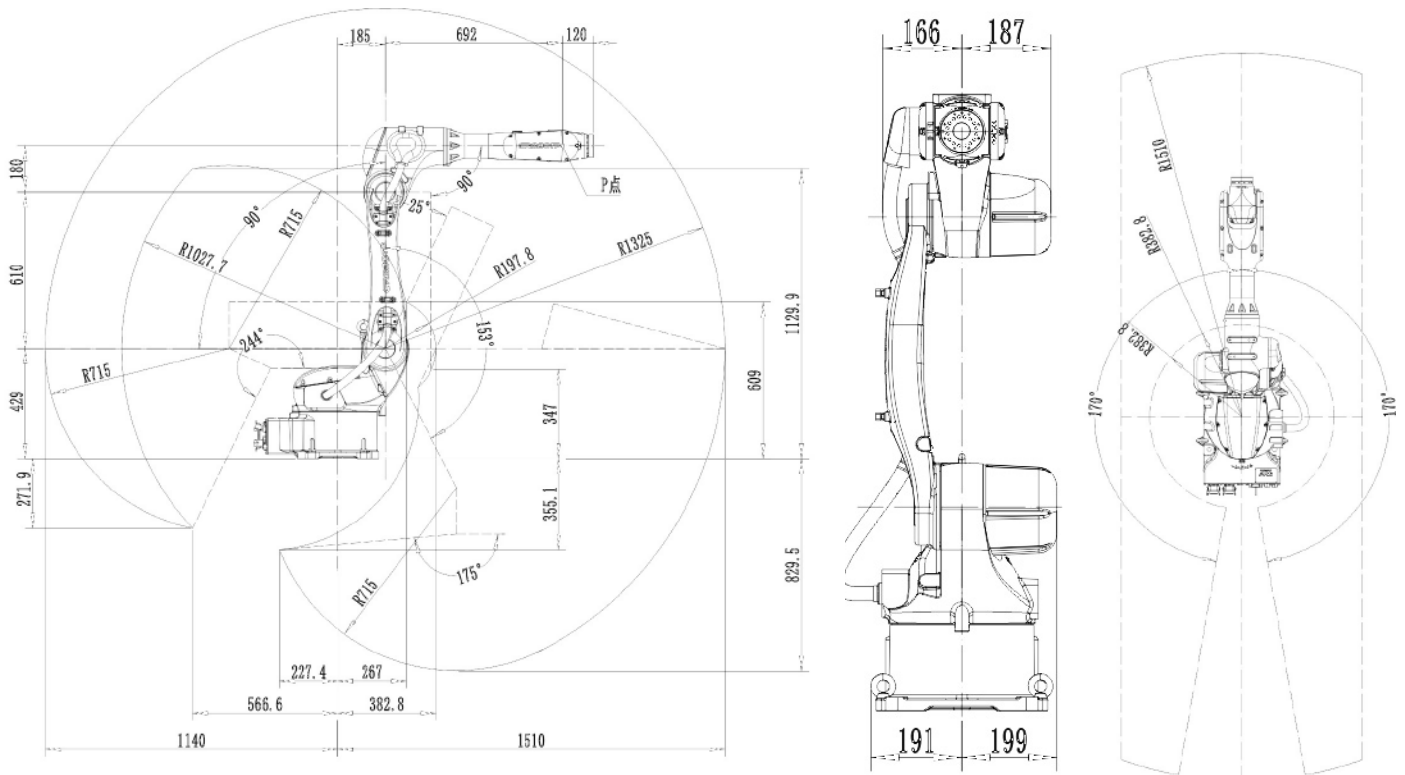
*If used for a welding robot it will have 1 more remote box, which will use 2 pairs of I/O signals.



INSTALLATION INTERFACE DIAGRAM



WORKING RANGE DIAGRAM



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 Jundiá, 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