

CRP-RA09-12 CRP-RA09-12T3 CRP-RA09-12T4 CRP-RA12-10

INDUSTRIAL ROBOT HANDLING APPLICATION



FUNCTIONAL FEATURES

- High speed, high precision, higher efficiency.the whole body adopts all-aluminum body design, lighter quality than the same level of products, RA09-12 series relative to RA09-07 series operation speed increased by 30%, standard door trajectory 0.42s, repeated precision positioning accuracy 0.03mm, to achieve rapid effect, improve production cap.45acity;
- Compact structure, flexible deployment. product motor and cable use built-in form, more compact structure, covers an area of 255mm*255mm, flexible deployment in narrow space;
- New design, higher protection, stronger rigidity;
- The body adopts a high-rigidity design scheme with higher rigidity and full internal closure scheme. The forearm protection grade reaches IP67, the load is larger and the range is wider. The robot load is 10kg and 12kg, the arm s pan is 900mm and 1200mm, and the robot wrist has higher torque and inertia, stronger load bearing capacity and wider application scenarios;
- New CrobotpOS software, better control performance. The new CrobotpOS software is compatible with the functions of the old X8 software, and the new background tasks, Socket protocol, PC software, laser welding and other functions are added. The motion control adopts high-level control algorithm, which makes the trajectory more flexible and the beat faster;



ROBOT BODY TECHNICAL PARAMETERS

Model	CRP-RA09-12	CRP-RA12-10	CRP-RA09-12T3	CRP-RA09-12T4
Arm form	Vertical multiple joints			
Maximum payload	12kg	10kg	12kg	12kg
Maximum coverage	918mm	1222mm	868mm	868mm
Maximum travel	Axis 1	Formal,inverted±170°,side±30°	Formal,inverted±170°,side±30°	/
	Axis 2	-135°~100°	-135°~100°	-135°~100°
	Axis 3	-70°~210°	-70°~210°	-70°~210°
	Axis 4	-190°~190°	-190°~190°	/
	Axis 5	-135°~135°	-135°~135°	-135°~135°
	Axis 6	-360°~360°	-360°~360°	/
Maximum speed	Axis 1	305°/S	305°/S	/
	Axis 2	310°/S	310°/S	310°/S
	Axis 3	350°/S	350°/S	350°/S
	Axis 4	470°/S	470°/S	/
	Axis 5	480°/S	480°/S	480°/S
	Axis 6	720°/S	720°/S	/
Allowable torque	Axis 4	25N.m	25N.m	/
	Axis 5	15N.m	15N.m	15N.m
	Axis 6	12N.m	12N.m	/
Allowable moment of inertia	Axis 4	0.4kg.m ²	0.4kg.m ²	/
	Axis 5	0.22kg.m ²	0.22kg.m ²	0.22kg.m ²
	Axis 6	0.22kg.m ²	0.22kg.m ²	/
Robot body weight	94kg	95kg	73kg	74kg
Repeated positioning accuracy	±0.03mm	±0.03mm	±0.03mm	±0.03mm
Installation mode	Formal, inverted, wall mounting		inverted mounting	
Noise level	<79.5dB(A)			
Body interface	Reserved IO	19 Pin		
	Reserved gas	2* φ6mm		
Installation environment	Ambient temperature	0~45°C		
	Relative humidity	20%~80%RH(No condensation)		
	Vibration	Under 0.5G		
Others	Robot installation must be away from: flammable or corrosive liquids or gases, electrical sources of interference			
IP level	Body IP54 ,Wrist IP67			
Application	Handling, laser welding, loading and unloading		PCB transfer machine	
Matching electrical cabinet	G11		G11	