CRP-RC08-05

INDUSTRIAL ROBOT 6-axis Light-duty Robot



PRODUCT INTRODUCTION

Crobotp six-axis light load robot has inherent characteristics such as safety, lightness, high flexibility, intelligence and convenience, so that people and robots are no longer separated by cold railings, and people can work together with robots, while robots It is no longer just a tool, but a personal assistant and intimate partner.

FEATURES

High safety: From hardware to software, multiple redundant designs are adopted, which can work together with humans to ensure the safety of personnel after a collision, and realize the sharing of working space between machines and humans.

Easy to program: It has the function of dragging and teaching. The programming is simple, and it can quickly respond to the production mode of small batches and multiple varieties. The programming style conforms to ergonomic habits, and there is no professional requirement for programming users.

Simple maintenance: The entire use process of the robot is maintenance-free, and the body adopts a modular design, which is quick and convenient to repair and replace parts. The comprehensive use cost of users is low, the overall project investment is small, and the return period is short.

· Strong reliability: Crobotp controller is the most mature industrial robot controller on the market at present (tens of thousands of units in the market, 24 hours of nonstop work fully proves the long-term reliability of our controller in the industrial environment).

Simple and easy to use: the body is light in weight, easy to handle and transport, no special lifting equipment is required, and the deployment is fast.

· Stable communication: The control system to the driver adopts the EtherCAT communication method, which has strong anti-interference ability, fast communication speed, large amount of data interaction, better drag feel, and more sensitive collision response.

Software customization: The software is completely self-developed and has all source codes, which can quickly respond to customers' customization needs.

ROBOT BODY TECHNICAL PARAMETERS

Robot model	CRP-RC08-05
Weight	22.5kg
Maximum payload	5kg
Maximum arm length	904mm
Joint range	\pm 360 $^{\circ}$ alljoints
Speed	Joint maximum 180°/s tool about 1m/s
Repeatability	+0.06mm
Degree of freedom	6
Features	Drag and teach, human-machine collaboration, easy to operate
Application scenario	Handling Grinding Assembly
Noise	<65dB(A)
Protection class	IP54
Power consumption	About 200W when running a typical program
Temperature	The temperature of the robot installation environment should be within 0-50°C
Power supply	100-240V AC 50/60Hz 1000W
Expected operating life	30000hours
Connecting cables	6m
Installation method	Any
Electric Cabinet Configuration	CRP-X1-S100

ELECTRIC CABINET TECHNICAL INDICATORS

Electric cabinet model	CRP-X1-S100
weight	14.5Kg
Power supply	100-240V AC 50/60HZ 1000W
Teach Pendant Cable	6m cable between teach pendant and control box
Control box size	466mm*173mm*329.5mm
Control box I/O port	23 digital inputs, 23 digital outputs, 4 analog outputs, encoder signal interface
I/O power	24V2A in the control box
Communication	EntherNet/IP Adapter
Operation mode	Teaching, dragging, process programming (palletizing, vision, tracking, spraying)
Control servo	$Ether CAT\ bus\ control, 100M\ speed, U-level\ synchronization\ accuracy$
Software PLC function	Ladder diagram editing, 5000 steps
Protection class	IP20
Teaching pendant	10.4TFT-LCD, keyboard + touch screen, mode selection switch, emergency stop button



MOTION RANGE DIAGRAM



