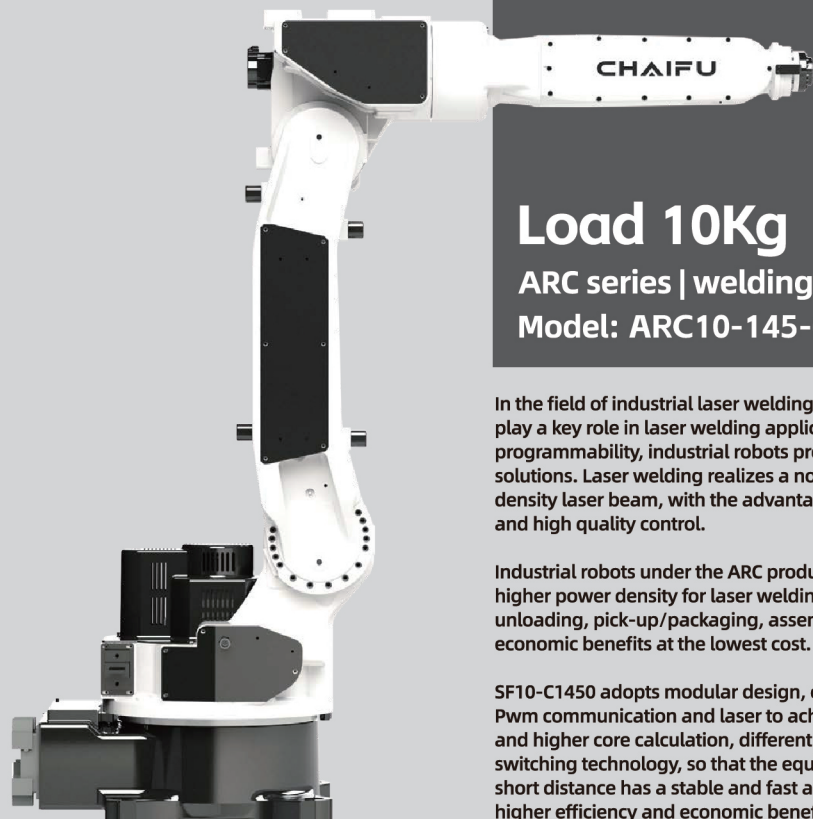




Load 10Kg

ARC series | welding robot

Model: ARC10-145-6

In the field of industrial laser welding, Chaifu ARC series SF10-C1450 welding robots play a key role in laser welding applications, using high precision, speed and programmability, industrial robots provide efficient and accurate laser welding solutions. Laser welding realizes a non-contact welding process with a high energy density laser beam, with the advantages of high precision, automation, flexibility and high quality control.

Industrial robots under the ARC product family provide better performance and higher power density for laser welding, cutting, handling, machine loading and unloading, pick-up/package, assembly/sub-assembly, and can achieve greater economic benefits at the lowest cost.

SF10-C1450 adopts modular design, customers own power supply, the system uses Pwm communication and laser to achieve data control, through fine classification and higher core calculation, different distance acceleration and deceleration switching technology, so that the equipment speed regardless of long distance or short distance has a stable and fast and efficient performance, in order to obtain higher efficiency and economic benefits.

市场应用



ARC welding



Cutting



Handling

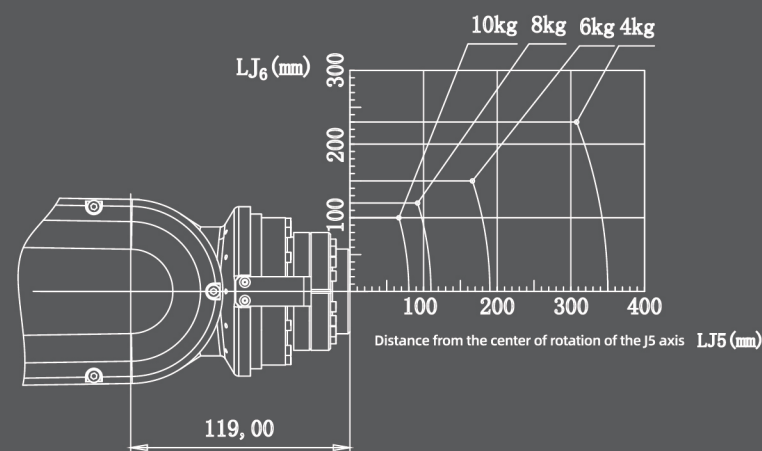
Machine loading
/Unloading

Picking/Packing



**g Assembly/
Subassembly**

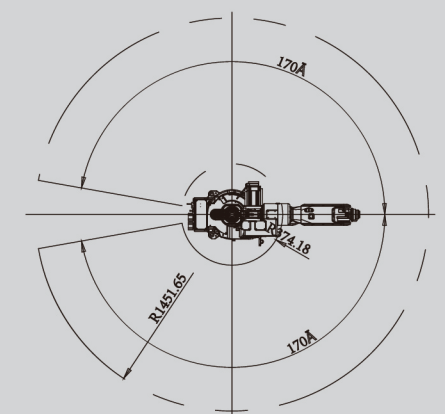
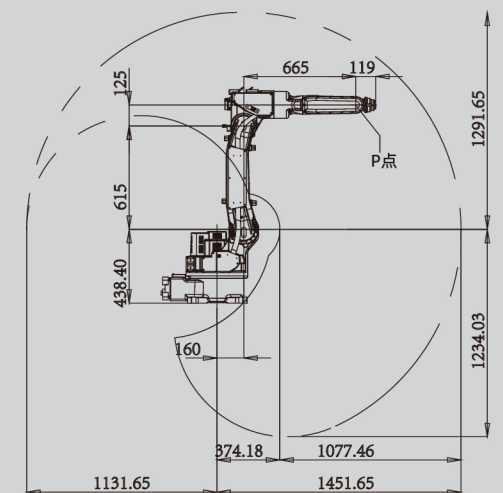
ARC10-145-6 hand load torque diagram



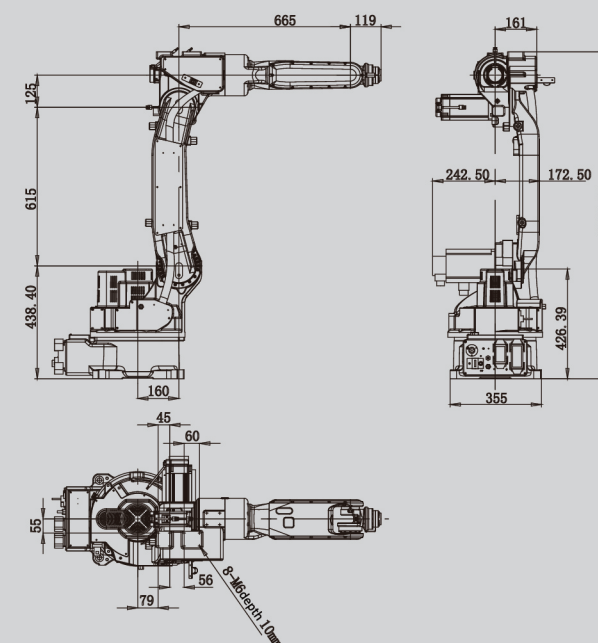
ARC10-145-6 Data Overview

Model number		ARC10-145-6
Structure type		Vertical polyarticular type
Number of joint axes		6
Maximum radius of motion		1450mm
Maximum hand load		10kg
Repeated positioning accuracy		±0.08mm
Driving mode		Use AC servo motor drive
Maximum Speed	J1 Axis	240°/s
	J2 Axis	240°/s
	J3 Axis	200°/s
	J4 Axis	200°/s
	J5 Axis	360°/s
	J6 Axis	600°/s
Range of Motion	J1 Axis	±170°
	J2 Axis	+90°/-155°
	J3 Axis	+98°/-82°
	J4 Axis	±170°
	J5 Axis	±119°
	J6 Axis	±220°
Allowable Moment	J4 Axis	/
	J5 Axis	20.5N·m
	J6 Axis	10N·m
Allowable Inertia	J4 Axis	/
	J5 Axis	0.43kg·m ²
	J6 Axis	0.12 kg·m ²
Protection Rating		IP 65
Operating Conditions	temperature	0°C-45°C
	humidness	Less than 95%RH (no condensation)
	Vibration	Below 4.9m/s ²
	other	Do not have corrosive and igniting gases, liquids, away from electrical noise sources
Base Size		355*355mm
Height		1269mm
Weight		160KG
Mounting Positions		Arbitrary Angle
Power Consumption		3.8kVA

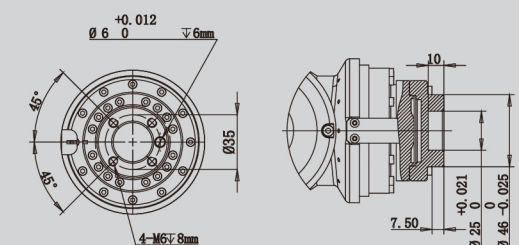
ARC10-145-6 Range of Motion



robot appearance and installation dimensions



A-side view (end flange mounting dimensions)



B-side view (Base mounting dimensions)

