



Load 125Kg

ARC series | medium load robot
Model: SF125-C3100D

BIOTIC is a series of high-load industrial robots, featuring a lightweight structure and excellent control technology, which can significantly increase production capacity per unit time. The powerful transmission device and diverse optional configurations can ensure the optimal cycle time to complete tasks within the heavy-load range.

BIOTIC stands out in the high-load industrial sector. CHAIFU industrial robots, with their BIOTIC series, offer a flexible solution for cost savings and high performance. It is highly suitable for load tasks weighing less than 300 kilograms. Therefore, it is particularly widely used in handling, palletizing, submerged arc welding, picking up/packaging, assembly/sub-packaging. It has excellent performance in terms of space utilization and repeatability accuracy.

All series of BIOTIC adopt LIKEPRECISION technology and RV reducers (Rotate Vector Reducer) with higher precision for joint parts. Even in high-speed operation conditions, the robot can give full play to its advantages.

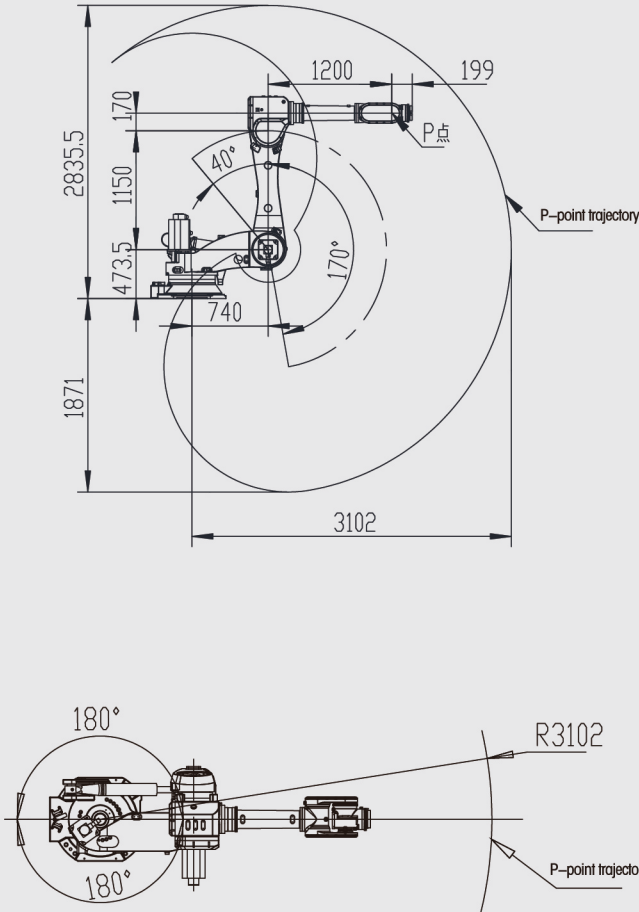
Applications



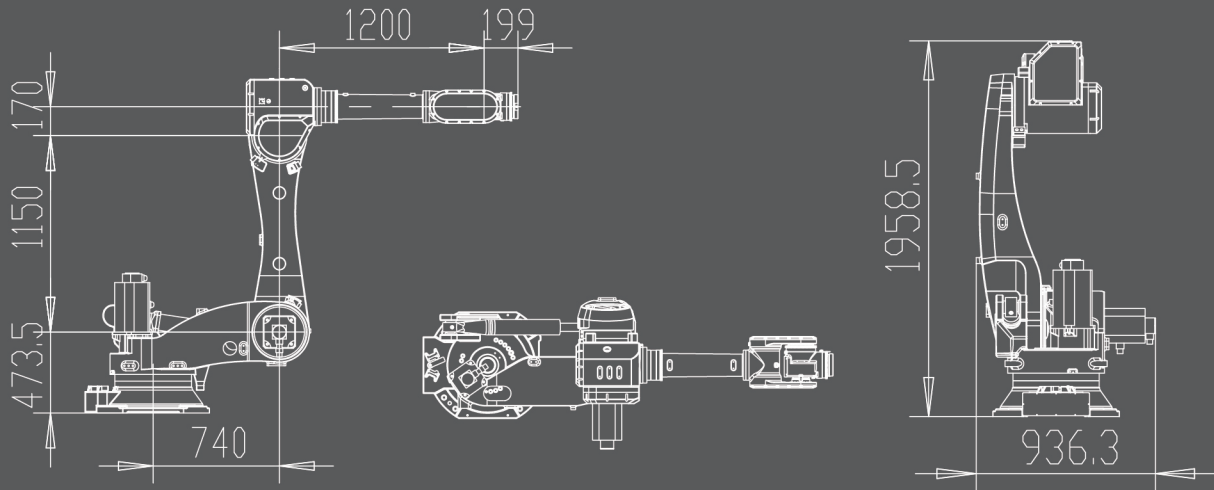
SF125-C3100D Data Overview

Model		SF125-C3100D
Structure		Vertically Articulated
Number of Axis		6
Radius		3100mm
Payload		125kg
Repeatability		±0.05mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	110°/s
	J2	100°/s
	J3	110°/s
	J4	162°/s
	J5	180°/s
	J6	200°/s
Range of Motion	J1	±180°/s
	J2	+170°/-40°
	J3	+90°/-83°
	J4	±360°
	J5	±120°
	J6	±360°
Allowable Moment	J4	/
	J5	/
	J6	/
Allowable Inertia	J4	/
	J5	/
	J6	/
Protection Rating		IP 65
Operating Conditions	Temp.	0-45°C
	Humidity	Below 95%RH
	Vibration	Below 4.9m/s2
	Other	Eliminate Signal Noise
Base Size		660*726mm
Height		1953.5mm
Weight		1109KG
Mounting Positions		Floor、Wall、Ceiling
Power Consumption		8.4kVA

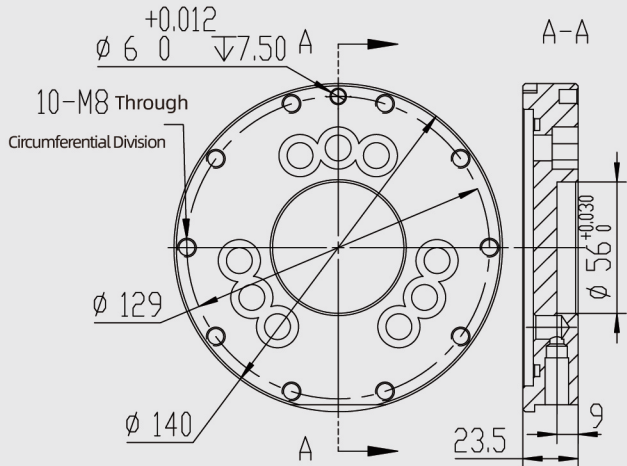
SF125-C3100 Range of Motion



SF300-C3100 External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

