



Load 125Kg

MIMETIC series: Medium-load robots

型号：SF125-C3100

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 210 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



handle



Picking/Packing

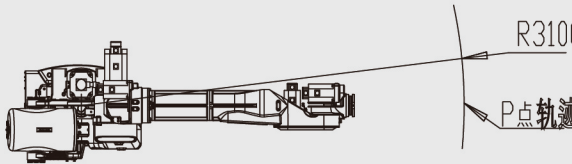
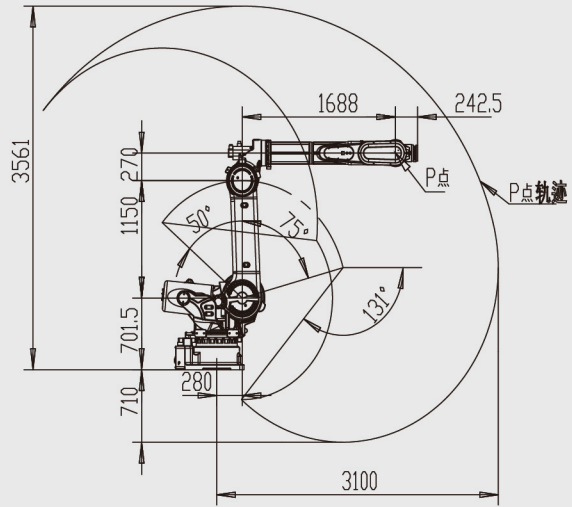


Palletizing

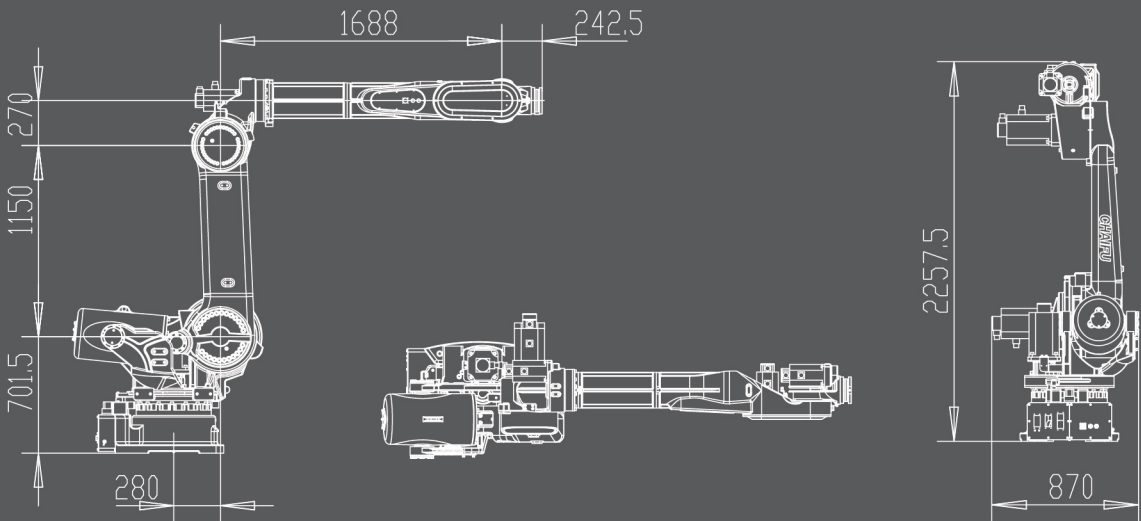
SF125-C3100 Data Overview

Model	SF125-C3100	
Structure	Vertically Articulated	
Number of Axis	6	
Radius	3100.7mm	
Payload	125kg	
Repeatability	±0.06mm	
Drive Mode	AC Servo Motor	
Maximum Speed	J1	110°/s
	J2	83°/s
	J3	99°/s
	J4	158°/s
	J5	150°/s
	J6	300°/s
Range of Motion	J1	±180°/s
	J2	+50°/-75°
	J3	+90°/-1095mm
	J4	±185°
	J5	±144°
	J6	±360°
Allowable Moment	J4	42N.M
	J5	42N.M
	J6	23N.M
Allowable Inertia	J4	1.26kg.m2
	J5	1.26kg.m2
	J6	0.49kg.m2
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	750*520mm	
Height	2343.5mm	
Weight	1476KG	
Mounting Positions	Floor、Wall、Ceiling	
Power Consumption	8.4kVA	

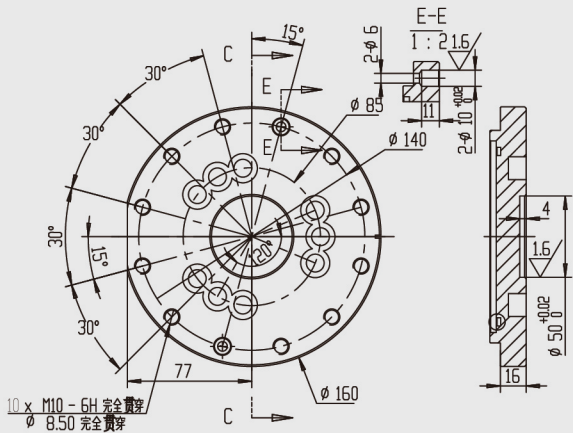
SF125-C3100 Range of Motion



CF125-C3100 External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

