



Load 300Kg

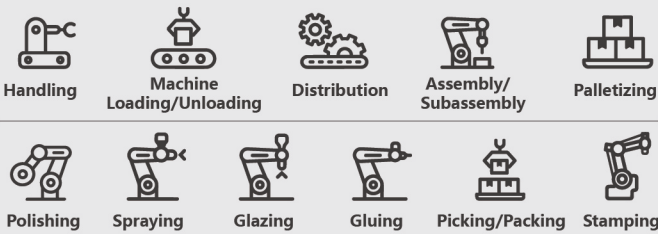
SF BIOTIC Series | High-Payload Robot
Model :SF300-C3100

BIOTIC is a series of high-load industrial robots with a lightweight structure and excellent control technology that can significantly increase productivity per unit of time. Powerful gearing and a wide range of optional configurations ensure optimal cycle times for tasks in the heavy-duty range.

BIOTIC stands out in the field of high-load industries. The BIOTIC series of CHAIFU industrial robots provides a flexible solution for cost savings and high performance. It is ideal for load tasks up to 300 kg. Therefore, it is especially widely used in handling, palletizing, submerged arc welding, pick-up/packaging, assembly/sub-assembly. In space, utilization and repetition accuracy have excellent performance.

BIOTIC all series use LIKEPRECISION technology, higher precision joint Reducer RV reducer (Rotate Vector Reducer), even in the high-speed operation state, the robot can give full play to its advantages.

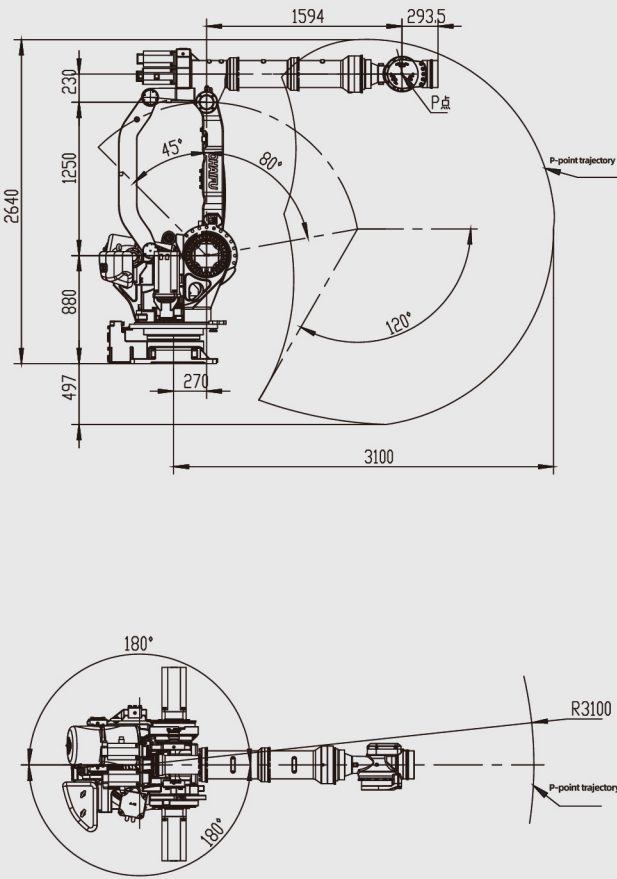
Market application



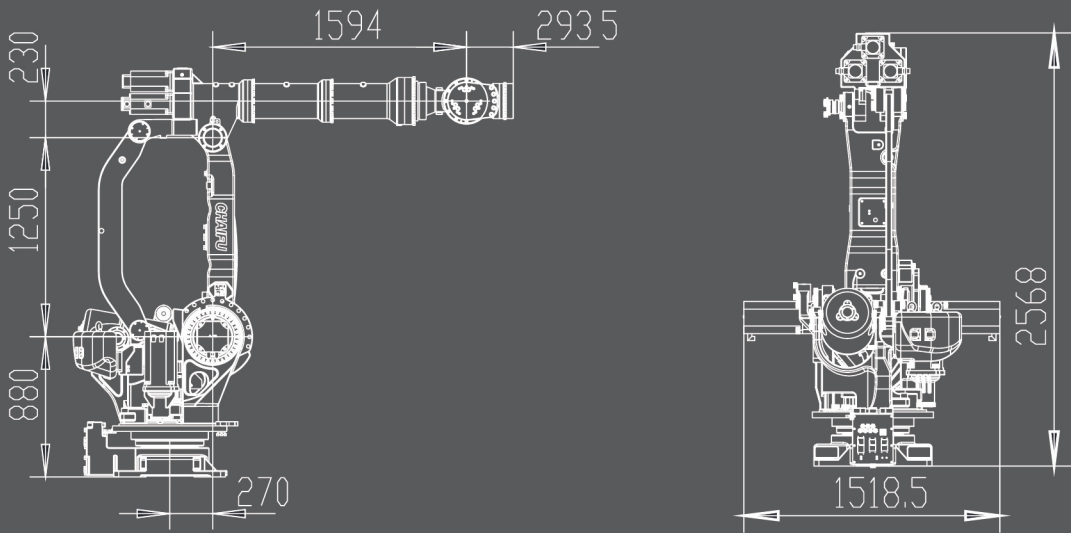
SF300-C3100 Data Overview

Model		SF300-C3100
Structure		Vertically Articulated
Number of Axis		6
Radius		3100mm
Payload		300kg
Repeatability		±0.06mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	110°/s
	J2	106°/s
	J3	106°/s
	J4	130°/s
	J5	120°/s
	J6	165°/s
Range of Motion	J1	±180°
	J2	+45°/-80°
	J3	+15.5°/-120°
	J4	±360°
	J5	±115°
	J6	±360°
Allowable Moment	J4	1980N·m
	J5	1980N·m
	J6	865N·m
Allowable Inertia	J4	152kg·m ²
	J5	152kg·m ²
	J6	122kg·m ²
Protection Rating		IP 65, Wrist IP 67
Operating Conditions	Temp.	0-45°C
	Humidity	Below 95%RH
	Vibration	Below 4.9m/s ²
	Other	Eliminate Signal Noise
Base Size		710*700mm
Height		2568mm
Weight		1970KG
Mounting Positions		Floor
Power Consumption		8.5kVA

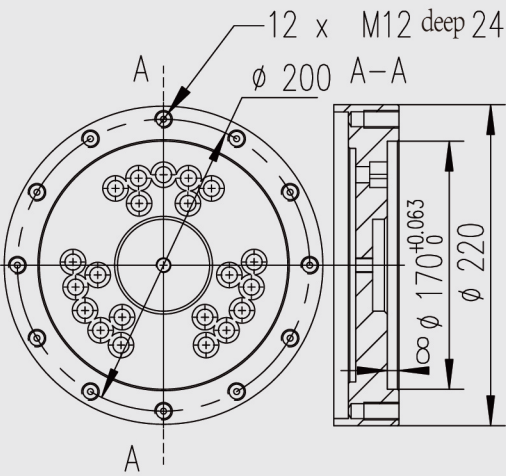
SF300-C3100 Range of Motion



SF300-C3100 External & Installation Dimensions



A Q view (end flange mounting dimensions)



B-side view (Base mounting dimensions)

