



SF ALPHTIC Series | Heavy Duty Robot
Model: SF2400-C3760

The SF ALPHTIC is the most powerful and technologically advanced heavy-duty robot, ideal for large, high-load applications, and its construction makes the SF ALPHTIC the perfect combination of power and technology.

The SF ALPHTIC is CHAIFU's heavy-duty robot perfectly matched to any application due to its ultra-high craftsmanship and rugged structural design. The powerful motors and gearboxes are designed to perform a wide range of heavy-duty tasks. The long working stroke of 3762.9 mm allows it to fit comfortably in small work cells.

The three core components of the CHAIFU convince with their low cost, high efficiency, and low maintenance, even in heavy-duty applications.

All SF ALPHTIC series are equipped with LIKEPRECISION technology and the highest precision joint part reducer, RV Reducer, which enables the robot to take full advantage of its advantages even in high-speed operation.

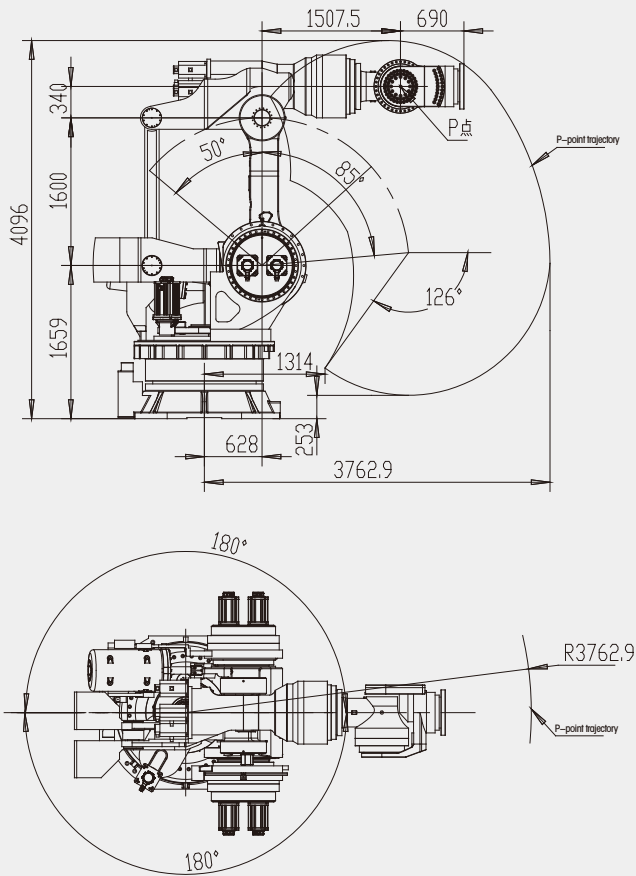
Applications



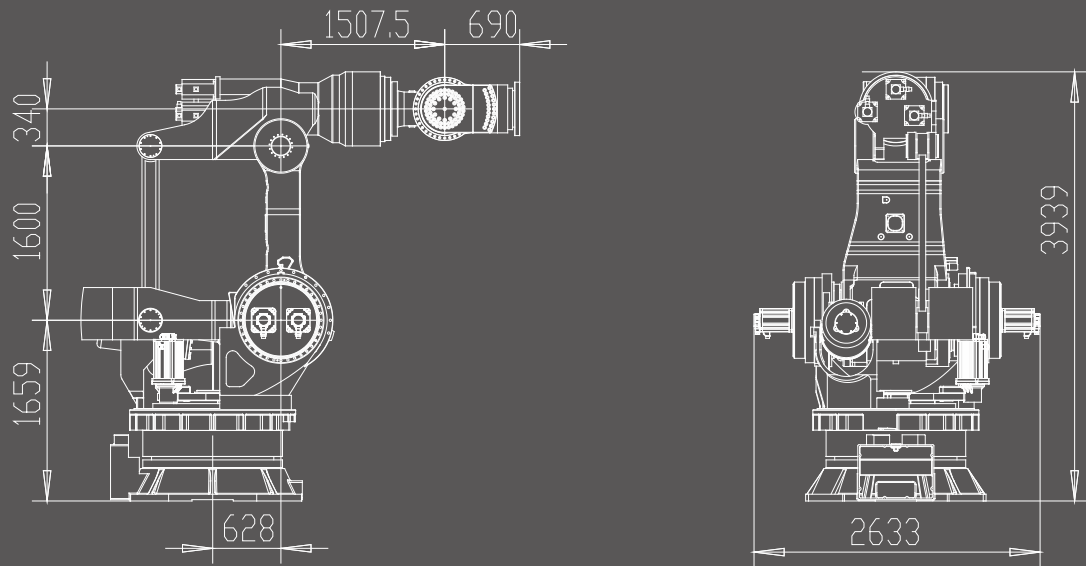
SF2400-C3760 Data Overview

Model		SF2400-C3760
Structure		Vertically Articulated
Number of Axis		6
Radius		3762.9mm
Payload		2400kg
Repeatability		±0.3mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	20°/s
	J2	12°/s
	J3	12°/s
	J4	19°/s
	J5	19°/s
	J6	40°/s
Range of Motion	J1	±180°
	J2	+50°/-85°
	J3	-120°/+20°
	J4	±360°
	J5	±115°
	J6	±360°
Allowable Moment	J4	7560kg.m ²
	J5	7560kg.m ²
	J6	5350kg.m ²
Allowable Inertia	J4	7560kg.m ²
	J5	7560kg.m ²
	J6	5350kg.m ²
Protection Rating		IP 65, Wrist IP 67
Operating Conditions	Temp.	0-45°C
	Humidity	Below 95%RH
	Vibration	Below 4.9m/s2
	Other	Eliminate Signal Noise
Base Size		1660*1580mm
Height		3939mm
Weight		11390KG
Mounting Positions		Floor
Power Consumption		20.5kVA

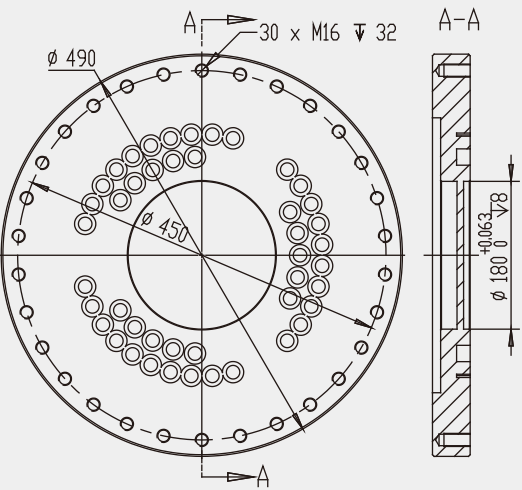
SF2400-C3760 Range of Motion



External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

