



SF ALPHTIC Series | Heavy-Duty Robot Model: SF3000-C3800

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 3809 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.

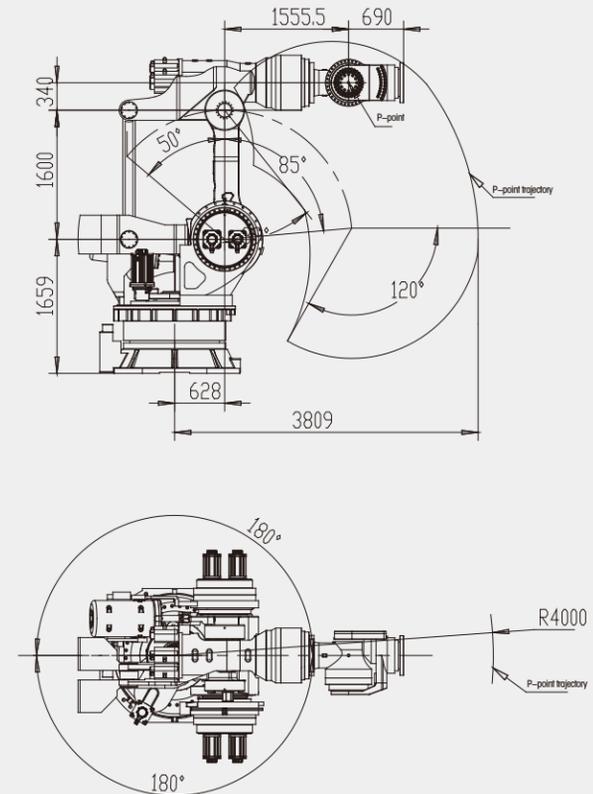
Applications



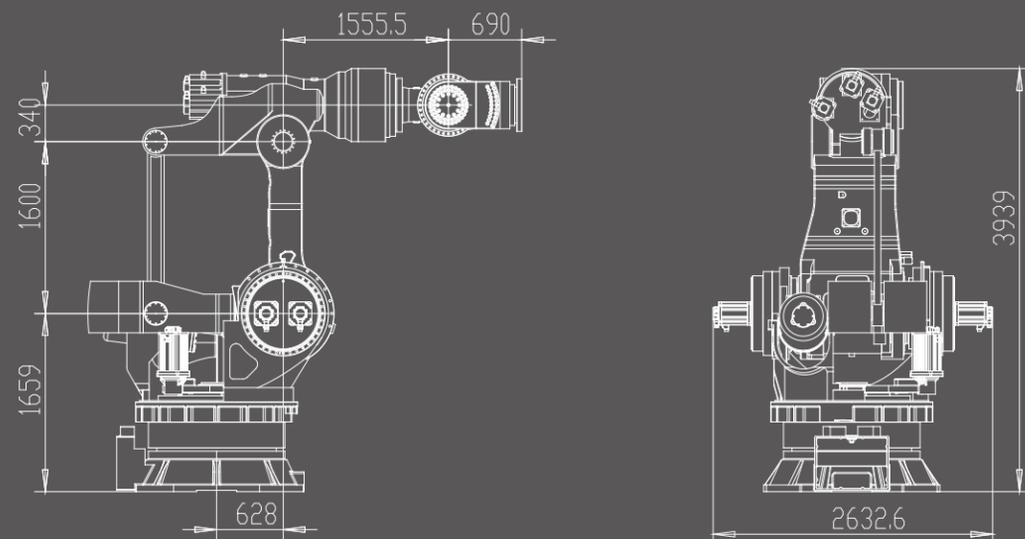
SF3000-C3800 Data Overview

Model	SF3000-C3800	
Structure	Vertically Articulated	
Number of Axis	6	
Radius	3809mm	
Payload	3000kg	
Repeatability	±0.3mm	
Drive Mode	AC Servo Motor	
Maximum Speed	J1	16°/s
	J2	10°/s
	J3	10°/s
	J4	12°/s
	J5	12°/s
	J6	30°/s
Range of Motion	J1	±180°
	J2	+50°/-85°
	J3	-120°/+20°
	J4	±360°
	J5	±115°
	J6	±360°
Allowable Moment	J4	35970N·m
	J5	35970N·m
	J6	13222N·m
Allowable Inertia	J4	11340kg·m ²
	J5	11340kg·m ²
	J6	5025kg·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	1660*1580mm	
Height	3939mm	
Weight	12000KG	
Mounting Positions	Floor	
Power Consumption	20.5kVA	

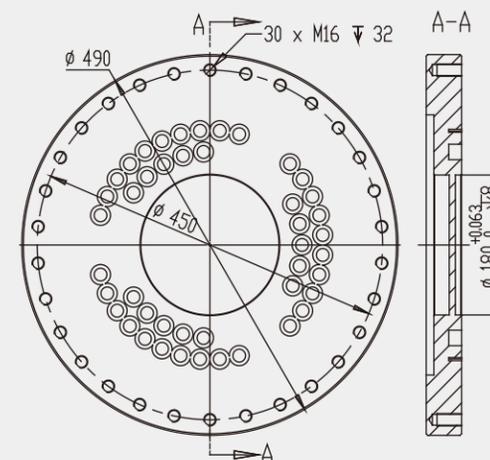
SF3000-C3800 Range of Motion



SF3000-C3800 External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

