



Load 500Kg

SF ALPHTIC Series | Heavy-Duty Robot
Model: SF500 - C3100

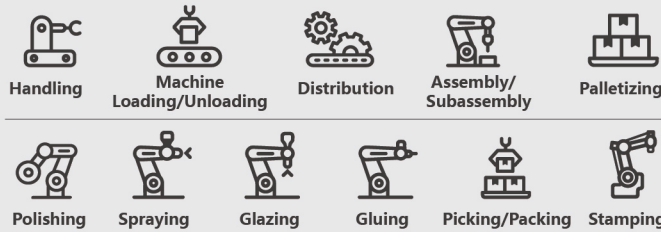
The SF ALPHTIC is the most powerful and technologically advanced heavy-duty robot,ideal for large, high-load applications, and its construction makes the SF ALPHTIC the perfect combination of power and technology.

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 3,273 mm allows it to fit comfortably in small work cells.

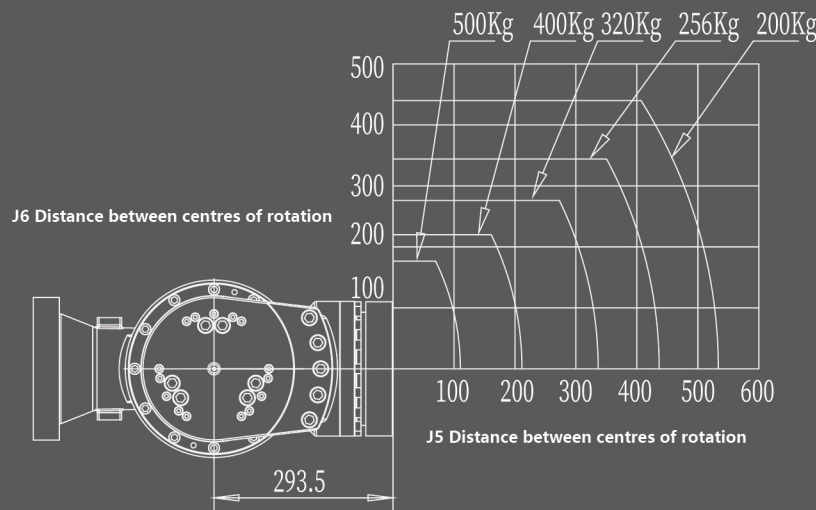
The three core components of the CHAIFU convince with their low cost, high efficiency, and low maintenance, even in heavy-duty applications.

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



SF500-C3100 Wrist load torque chart

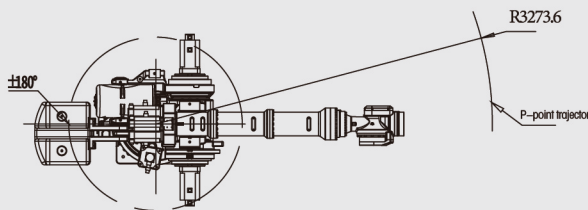
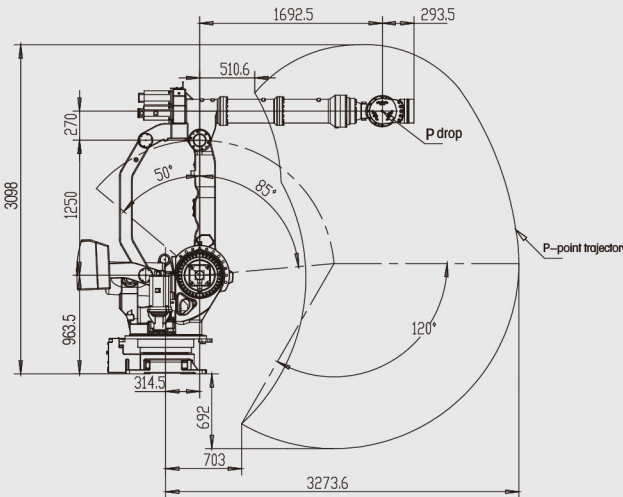


Note: The centre of gravity point of the load should be within the wrist torque diagram when in use

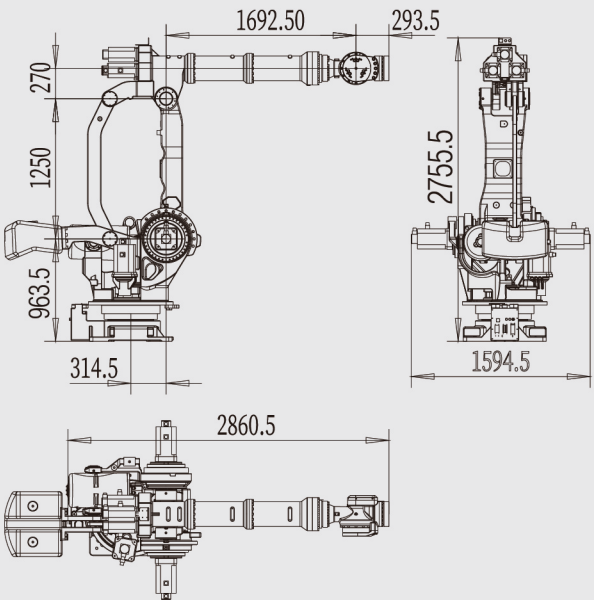
SF500-C3100 Data Overview

Model			SF500-C3100
Structure			Vertically Articulated
Number of Axis			6
Radius			3273.6mm
Payload			500kg
Repeatability			±0.1mm
Drive Mode			AC Servo Motor
Maximum Speed	J1	100° /s	
	J2	85° /s	
	J3	85° /s	
	J4	80° /s	
	J5	80° /s	
	J6	160° /s	
Range of Motion	J1	±180°	
	J2	+50° /-85°	
	J3	-120° /+25°	
	J4	±360°	
	J5	±115°	
	J6	±360°	
Allowable Moment	J4	1980N.M	
	J5	1980N.M	
	J6	865N.M	
Allowable Inertia	J4	152kg.m2	
	J5	152kg.m2	
	J6	122kg.m2	
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			910*739mm
Height			2755.5mm
Weight			2780KG
Mounting Positions			Floor
Power Consumption			8.5kVA

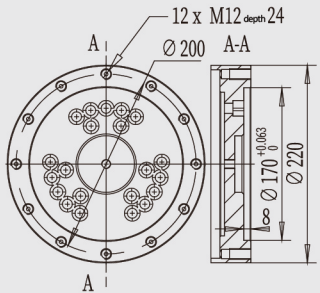
SF500-C3100 Range of Motion



External & Installation Dimensions



A-Way Diagram
(End Flange Mounting Fimensions)



B-Way Diagram (Base Mounting Dimensions)

