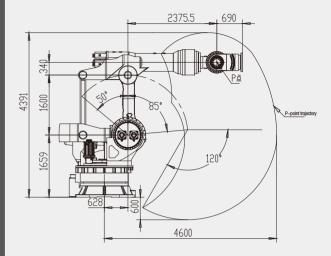
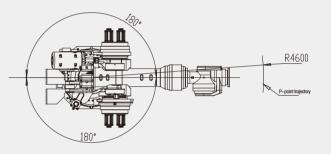
# SF ALPHTIC Series | Heavy Duty Robot Model: SF1600-C4600 The SF ALPHTIC is the most powerful and technologically advanced heavy-duty robot, ideal for large, high-load applications, and its construction makes the SF ALPHTIC the perfect combination of power and technology. The SF ALPHTIC is CHAIFU's 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 4600 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.

### SF1600-C4600 Data Overview

Model		SF1600-C4600
Structure		Vertically Articulated
Number of Axis		6
Radius		4600mm
Payload		1600kg
Repeatability		±0.3mm
Drive Mode		AC Servo Motor
Maximum Speed	J1 J2 J3 J4 J5 J6	20°/s 12°/s 12°/s 19°/s 19°/s 40°/s
Range of Motion	J1 J2 J3 J4 J5 J6	±180° +50°/-85° -120°/+20° ±360° ±115° ±360°
Allowable Moment	J4 J5 J6	29380N.m 29380N.m 8815N.m
Allowable Inertia	J4 J5 J6	7560kg.m <sup>2</sup> 7560kg.m <sup>2</sup> 5350kg.m <sup>2</sup>
Protection Rating		IP 65, Wrist IP 67
	Temp.	0-45°C
Operating	Humidity	Below 95%RH
Conditions	Vibration	Below 4.9m/s2
	Other	Eliminate Signal Noise
Base Size		1660*1580mm
Height		3939mm
Weight		11600KG
Mounting Positions		Floor
Power Consumption		16.8kVA

## SF1600-C4600 Range of Motion





### **Applications**

















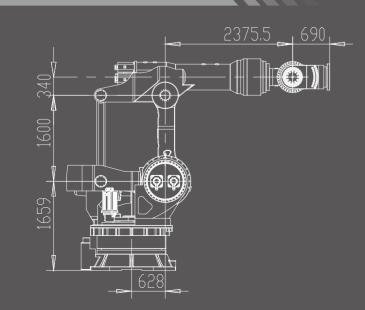


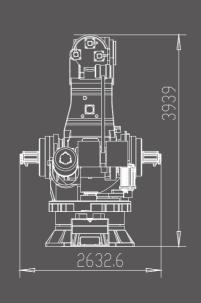




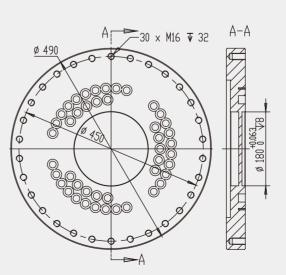
Picking/Packing Stamping

### **External & Installation Dimensions**





### A-Way Diagram (End Flange Mounting Dimensions)



### B-Way Fiagram (Base Mounting Dimensions)

