



Load 2000Kg

ALPHTIC PA Series | Heavy-Duty Robot

Model: SF2000 - C4090 PA

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

The ALPHTIC PA 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 4090 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 ALPHATIC PA 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



Handling



Picking/Packing



Distribution



Assembly/ Subassembly



Sanding



Picking/Packing



Stamping

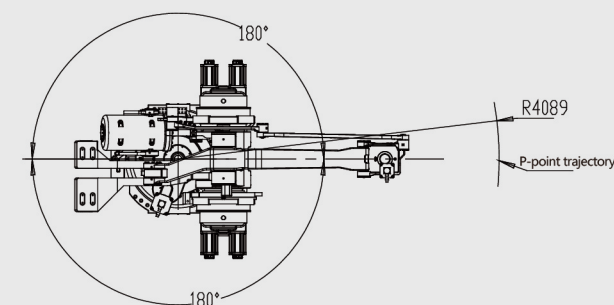
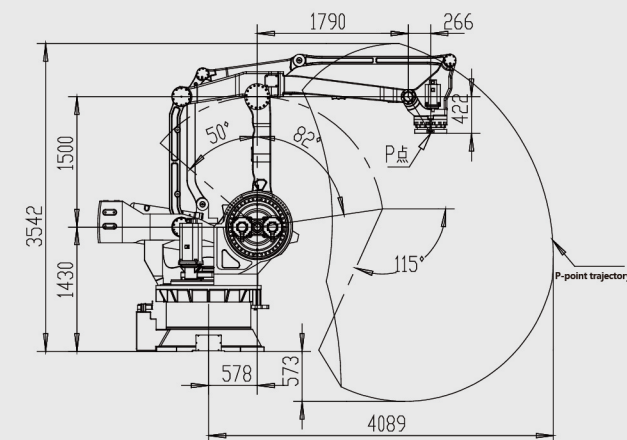


Palletizing

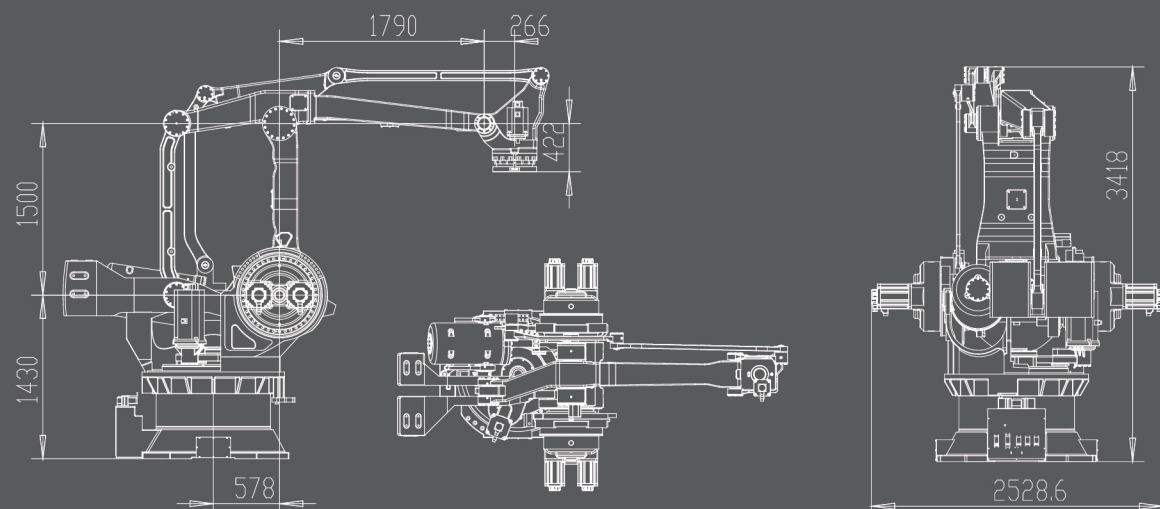
SF2000-C4090 PA Data Overview

Model		SF2000-C4090 PA
Structure		Vertically Articulated
Number of Axis		4
Radius		4090mm
Payload		2000kg
Repeatability		±0.8mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	43°/s
	J2	25°/s
	J3	25°/s
	J4	60°/s
	J5	/
	J6	/
Range of Motion	J1	±180°
	J2	+50°/-82°
	J3	+20°/-115°
	J4	±360°
	J3-J2	-72°≤J3-J2≤+72°
Allowable Moment	J4	12740N·m
	J5	/
	J6	/
Allowable Inertia	J4	3260kg·m ²
	J5	/
	J6	/
	Protection Rating	
Operating Conditions	Temp.	0-45°C
	Humidity	Below 95%RH
	Vibration	Below 4.9m/s ²
	Other	Eliminate Signal Noise
Base Size		1280*1380mm
Height		3418mm
Weight		10460KG
Mounting Positions		Floor
Power Consumption		15.5kVA

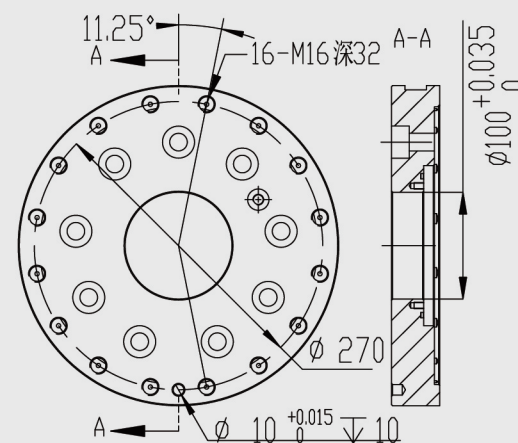
SF2000-C4090 PA Range of Motion



SF2000-C4090 PA External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

