



Load 5000Kg

ALPHTIC PA 系列 | 重载机器人
型号: SF5000 - C4000 PA

ALPHTIC is a heavy-duty robot with even more powerful strength and more advanced technology. It is highly suitable for various applications with large-scale and high loads. Its sturdy and durable structure makes ALPHTIC a representative of the perfect combination of strength and technology.

ALPHTIC is a heavy-duty robot of CHAIFU. With its ultra-high craftsmanship and robust structural design, it can perfectly match any application scenario. The powerful motors and gearboxes will spare no effort to complete all kinds of heavy-duty tasks. The working stroke, which extends up to 3994mm, enables it to handle tasks with ease even in a confined working unit. Thanks to the three core components of CHAIFU, even in the field of heavy-duty applications, it can still convincingly achieve the characteristics of low cost, high efficiency, and low post-maintenance costs.

All series of ALPHTIC adopt the LIKEPRECISION technology. The RV reducer (Rotate Vector Reducer), a reducer with higher precision for the joint parts, allows the robot to fully demonstrate its advantages even in a high-speed operation state.

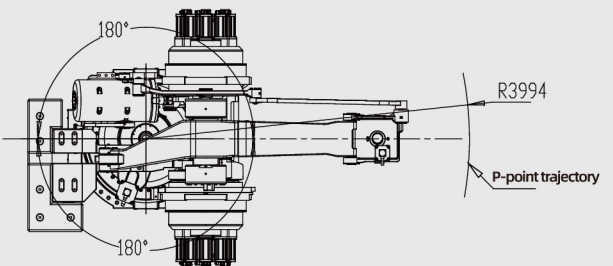
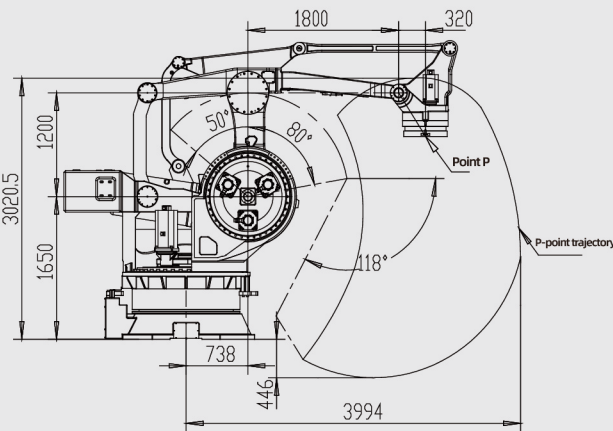
Applications



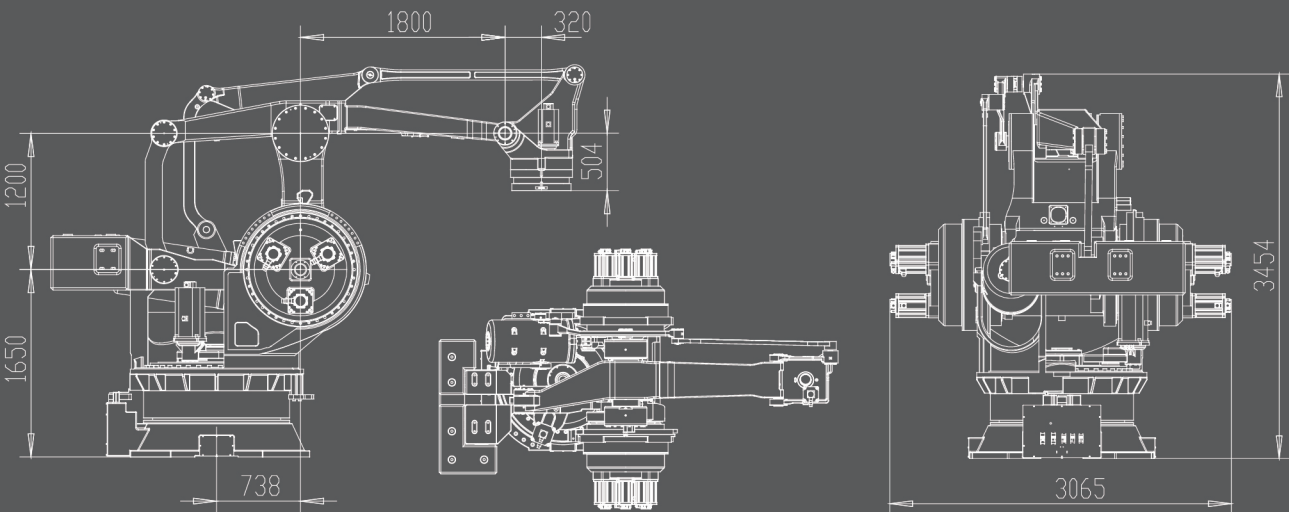
SF5000-C4000 PA Data Overview

Model		SF5000-C4000 PA
Structure		Vertically Articulated
Number of Axis		4
Radius		3994mm
Payload		5000kg
Repeatability		±1mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	10°/s
	J2	8°/s
	J3	8°/s
	J4	15°/s
	J5	/
	J6	/
Range of Motion	J1	±180°
	J2	+50°/-80°
	J3	-118°/+22°
	J4	±360°
	J3-J2	-60°≤J3-J2≤+60°
Allowable Moment	J4	46890N·m
	J5	/
	J6	/
Allowable Inertia	J4	7628kg·m²
	J5	/
	J6	/
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		1580*1660mm
Height		3683mm
Weight		17120KG
Mounting Positions		Floor
Power Consumption		18kVA

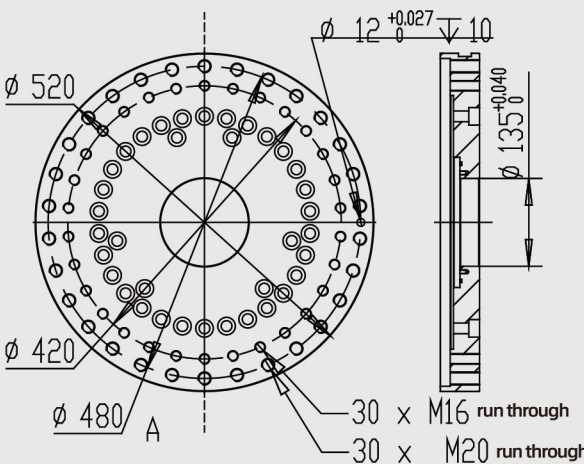
SF5000-C4000 PA Range of Motion



SF5000-C4000 PA External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

