



Load: 1200Kg

ALPHTIC PA Series Heavy-duty Robots
Model: SF1200-C4600 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 reaches up to 4600mm, 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.

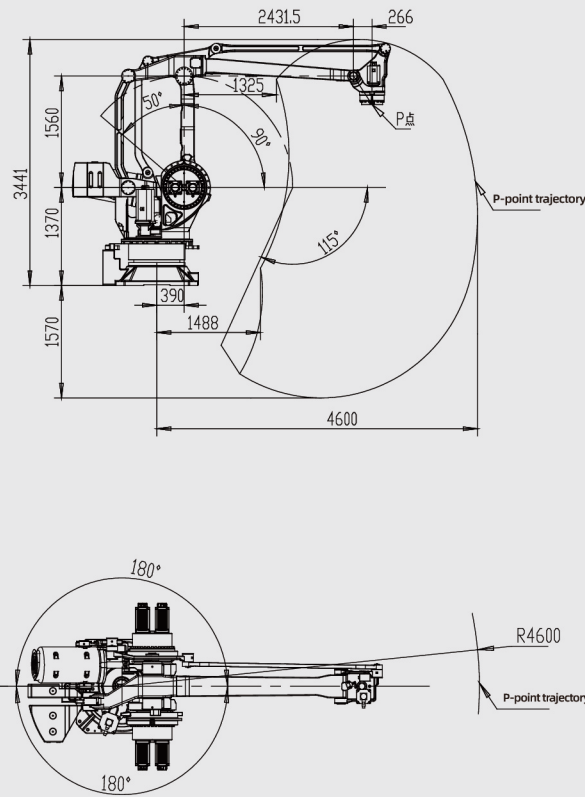
Applications



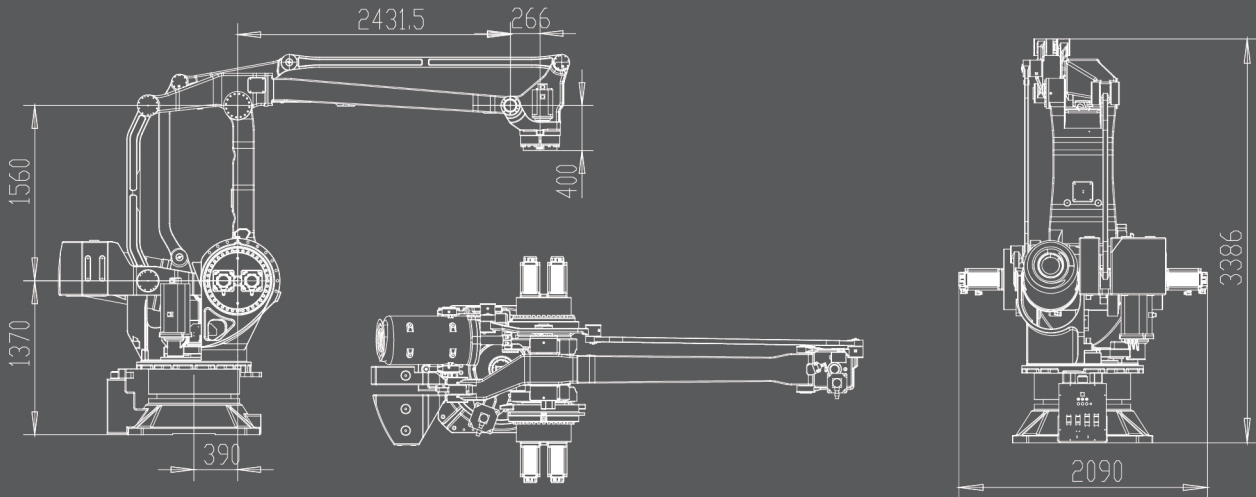
SF1200-C4600 PA Data Overview

Model		SF1200-C4600 PA
Structure		Vertically Articulated
Number of Axis		4
Radius		4600mm
Payload		1200kg
Repeatability		±0.5mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	50°/s
	J2	52°/s
	J3	58°/s
	J4	115°/s
	J5	/
	J6	/
Range of Motion	J1	±180°
	J2	+50°/-90°
	J3	+23°/-115°
	J4	±360°
	J3-J2	-70°≤J3-J2≤+70°
	J4	8820N·m
Allowable Moment	J5	/
	J6	/
Allowable Inertia	J4	2608kg·m ²
	J5	/
	J6	/
		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		1180*1180mm
Height		3386mm
Weight		7192KG
Mounting Positions		Ground installation
Power Consumption		14.5kVA

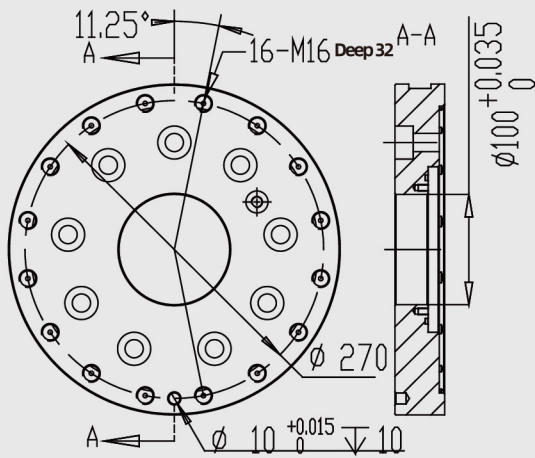
SF1200-C4600 PA Robot Motion Range Diagram



SF1200-C4600 PA External & Installation Dimensions



A-view (end flange installation dimensions)



B-view (base installation dimensions)

