



Load 1600Kg

ALPHTIC PA Series | Heavy-Duty Robot
Model: SF1600 - C4000 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 3966 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 ALPHTIC 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

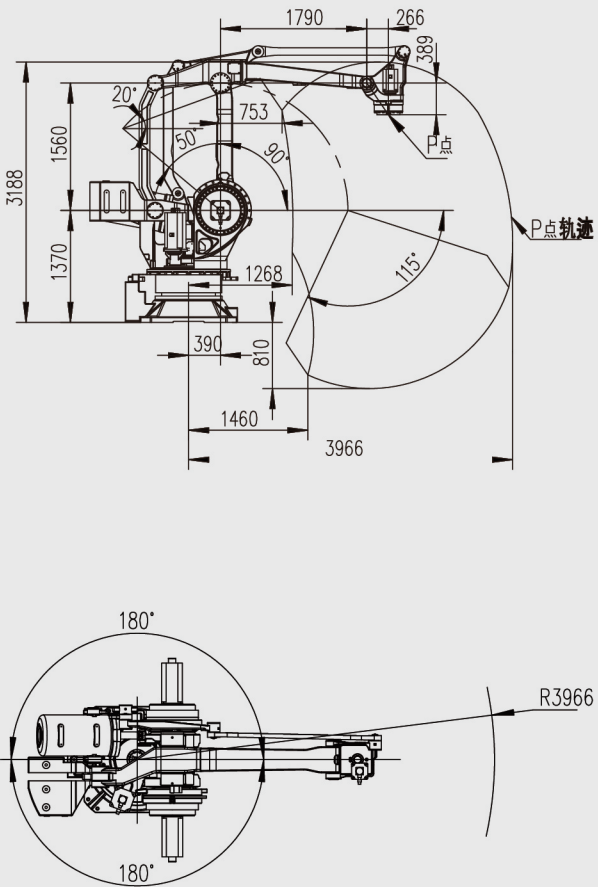


Palletizing

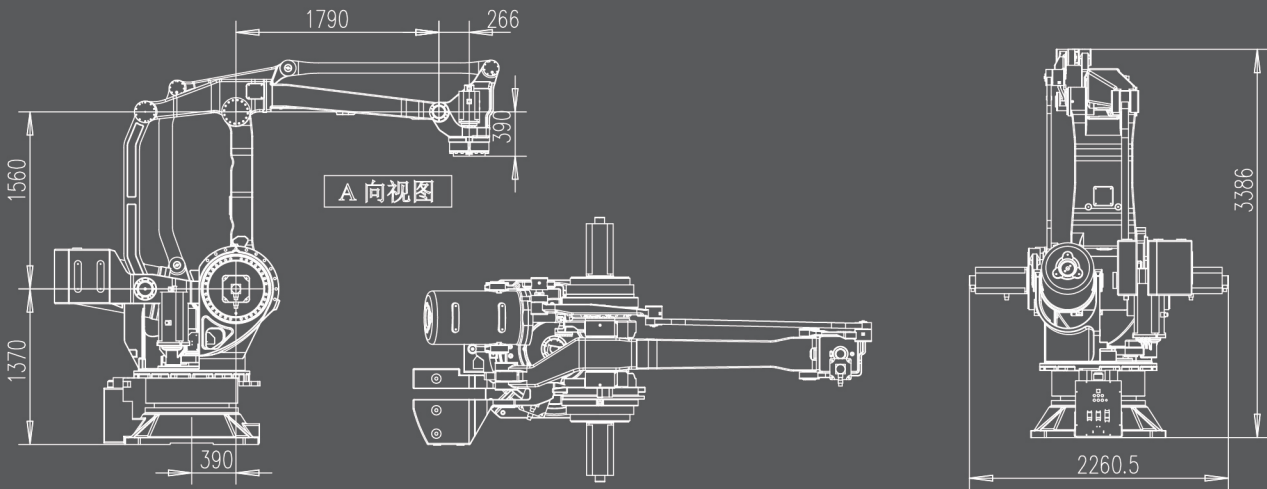
SF1600-C4000 PA Data Overview

Model	SF1600-C4000 PA	
Structure	Vertically Articulated	
Number of Axis	4	
Radius	3966mm	
Payload	1600kg	
Repeatability	±0.8mm	
Drive Mode	AC Servo Motor	
Maximum Speed	J1	60°/s
	J2	60°/s
	J3	60°/s
	J4	125°/s
	J5	/
	J6	/
Range of Motion	J1	±180°
	J2	+50°/-90°
	J3	+20°/-115°
	J4	±360°
	J3-J2	-70°≤J3-J2≤+70°
Allowable Moment	J4	8820N·m
	J5	/
	J6	/
Allowable Inertia	J4	1299kg·m ²
	J5	/
	J6	/
Protection Rating	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	6116KG	
Mounting Positions	Floor	
Power Consumption	15kVA	

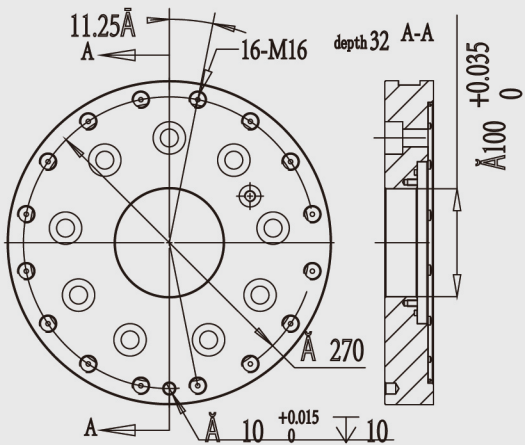
SF1600-C4000 PA Range of Motion



SF1600-C4000 PA External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

