



Load: 3000Kg

ALPHTIC PA Series | Heavy-Duty Robot

Model: SF3000 - C4200 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 4200 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.

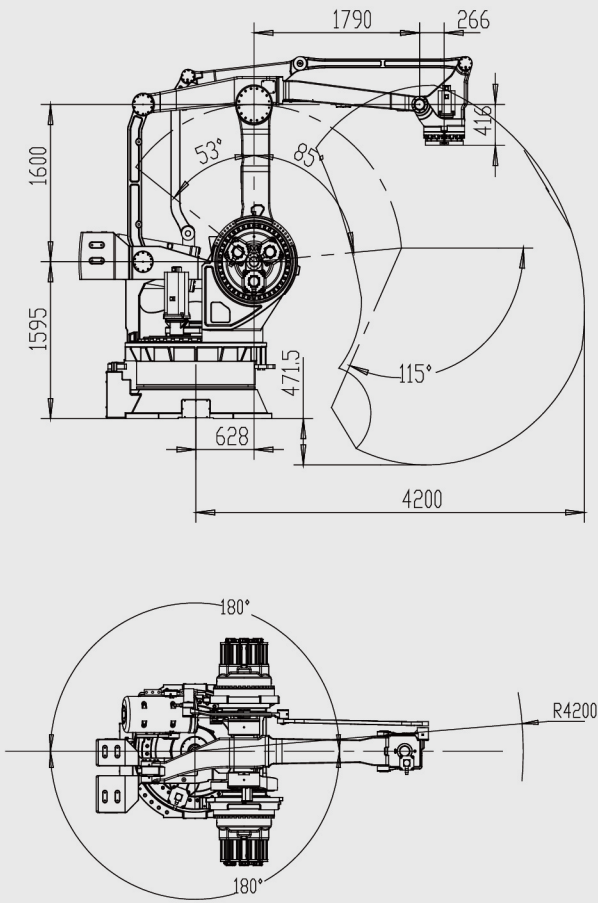
Applications



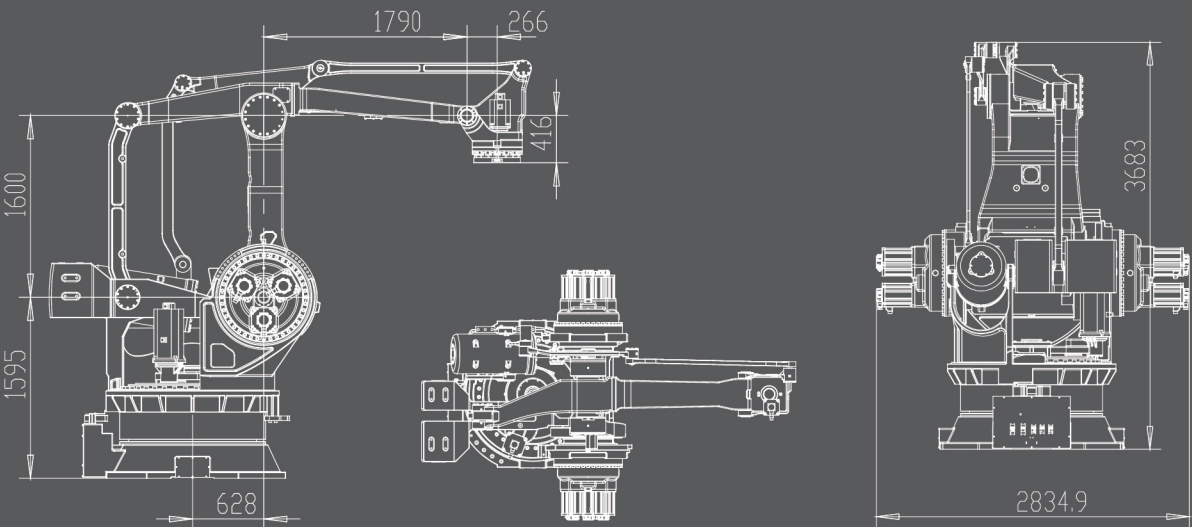
SF3000-C4200 PA Data Overview

Model		SF3000-C4200 PA
Structure		Vertically Articulated
Number of Axis		4
Radius		4200mm
Payload		3000kg
Repeatability		±0.8mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	20°/s
	J2	12°/s
	J3	12°/s
	J4	40°/s
	J5	/
	J6	/
Range of Motion	J1	±180°
	J2	+53°/-85°
	J3	+20°/-110°
	J4	±360°
	J3-J2	-63°≤J3-J2≤+65°
Allowable Moment	J4	20580·m
	J5	/
	J6	/
Allowable Inertia	J4	4890kg·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		1580*1660mm
Height		3683mm
Weight		12600KG
Mounting Positions		Floor
Power Consumption		18kVA

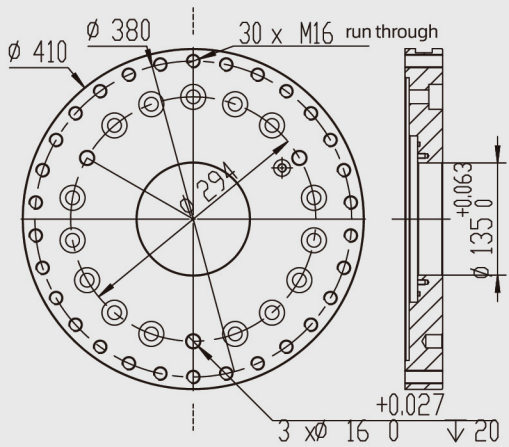
SF3000-C4200 PA Range of Motion



SF3000-C3860 PA External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

