



Load 3760Kg

ALPHTIC Series | Heavy-Duty Robot
Model: SF3000-C3760

ALPHTIC is a heavy-duty robot boasting 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 integration of strength and technology.

ALPHTIC is a heavy-duty robot of CHAIFU. Thanks to its ultra-high craftsmanship and robust structural design, it can perfectly match any application scenario. The powerful motors and gearboxes will spare no effort in accomplishing a wide variety of heavy-duty tasks. With a working stroke as long as 3,758.8 mm, it can 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 features of low cost, high efficiency, and low post-maintenance expenses.

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

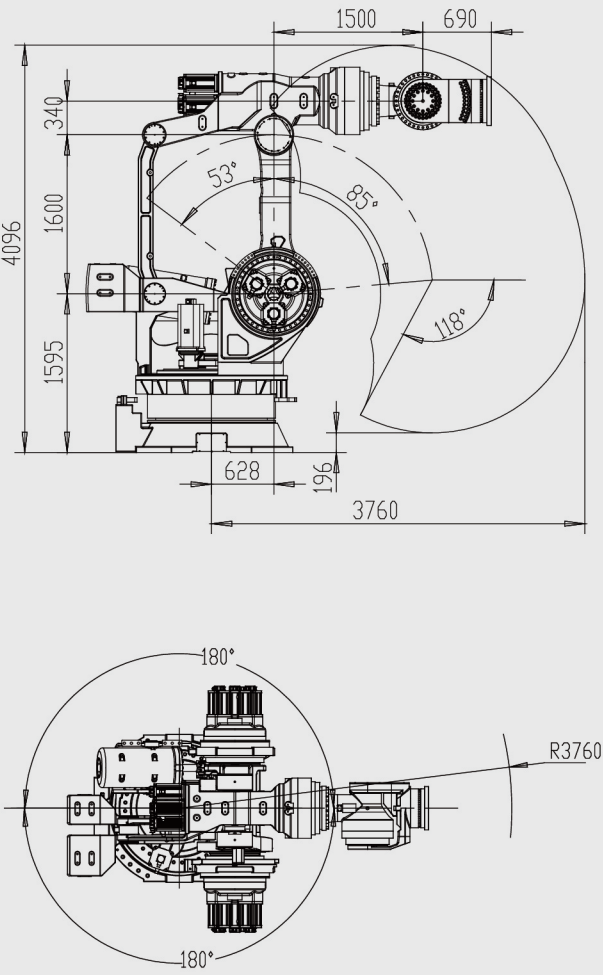
Applications



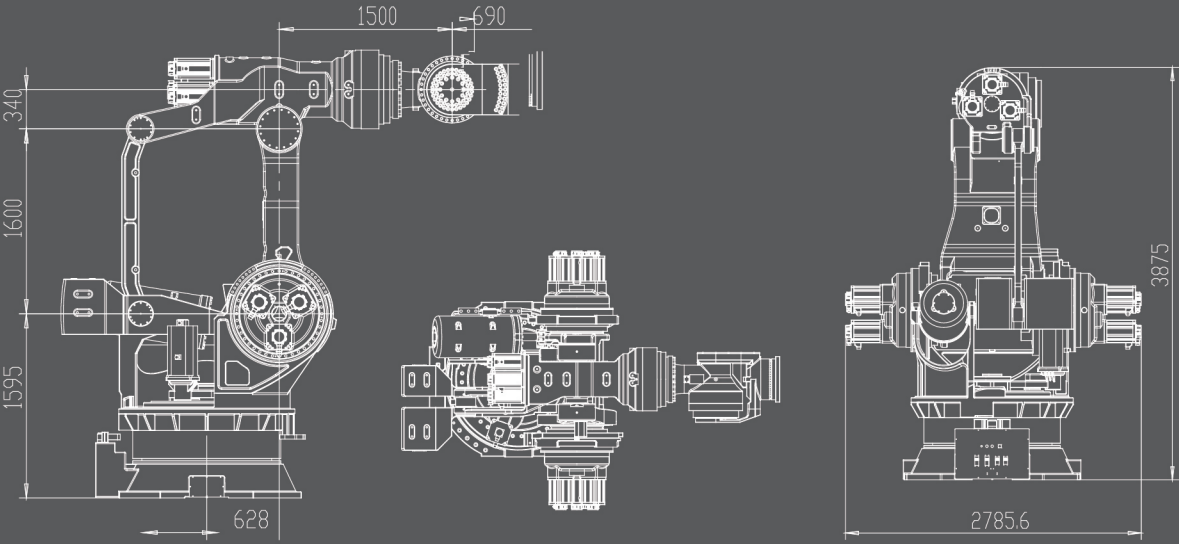
SF3000-C3760 Data Overview

Model		SF3000-C3760
Structure		Vertically Articulated
Number of Axis		6
Radius		3758.8mm
Payload		3000kg
Repeatability		±0.32mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	16°/s
	J2	12°/s
	J3	12°/s
	J4	16°/s
	J5	16°/s
	J6	32°/s
Range of Motion	J1	±180°
	J2	+53°/- 85°
	J3	+22.5°/-113°
	J4	±360°
	J5	±115°
	J6	±360°
Allowable Moment	J4	31500N·m
	J5	31500N·m
	J6	8980N·m
Allowable Inertia	J4	7680kg·m ²
	J5	7680kg·m ²
	J6	5680kg·m ²
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*1670mm
Height		3875mm
Weight		17660KG
Mounting Positions		Ground installation
Power Consumption		23.5kVA

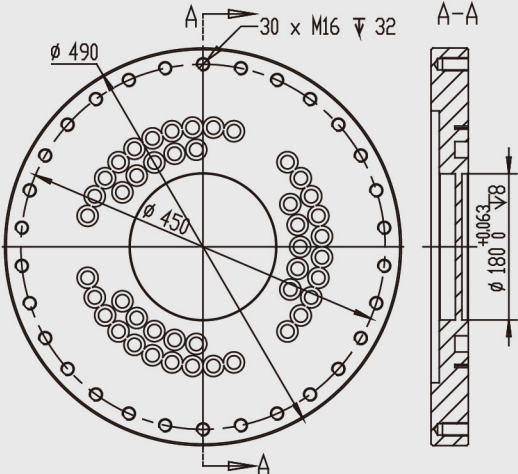
SF3000-C3760 Range of Motion



SF3000-C3800 External & Installation Dimensions



A-Way Diagram (End Flange Mounting Dimensions)



B-Way Diagram (Base Mounting Dimensions)

