



Load 1500Kg

SF ALPHTIC Series | Heavy-Duty Robot
Model: SF1500-C3870

ALPHTIC is a heavy-duty robot with stronger power and more advanced technology, which is very suitable for various large and high load applications. Its sturdy and durable structure makes ALPHTIC a representative of the perfect combination of power and technology.

ALPHTIC is CHAIFU's heavy-duty robot, which can perfectly match any application situation with its ultra-high craftsmanship and sturdy structural design. Powerful motors and gearboxes will spare no effort to complete various heavy-duty tasks. The 3872mm working stroke enables it to handle small work units with ease. Thanks to the three core components of CHAIFU, even in the heavy-duty field, it can still achieve the characteristics of low cost, high efficiency, and low maintenance costs in the later stage, which is convincing.

All ALPHTIC series adopt LIKEPrecision technology, with a higher precision joint reducer RV (Rotate Vector Reducer), allowing the robot to fully utilize its advantages even in high-speed operation.

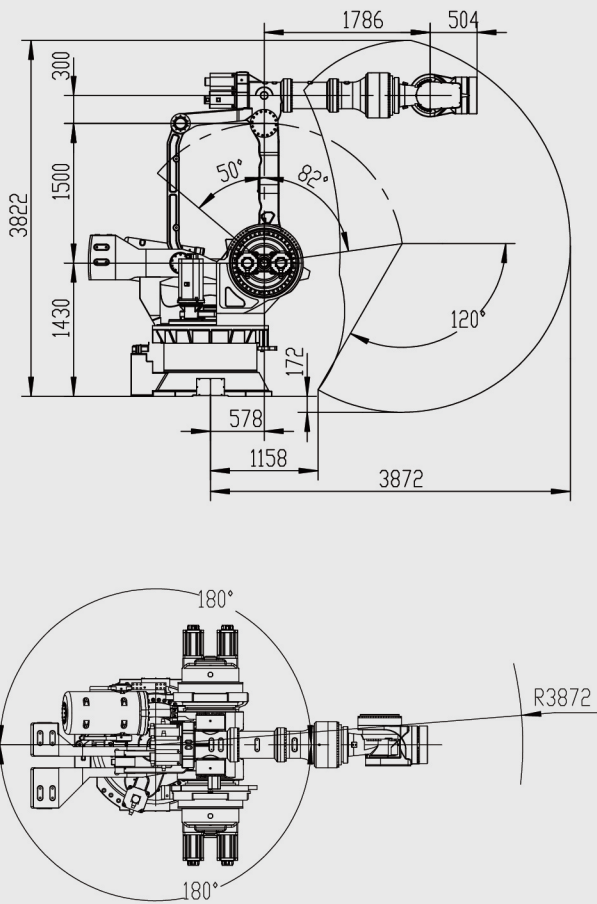
Applications



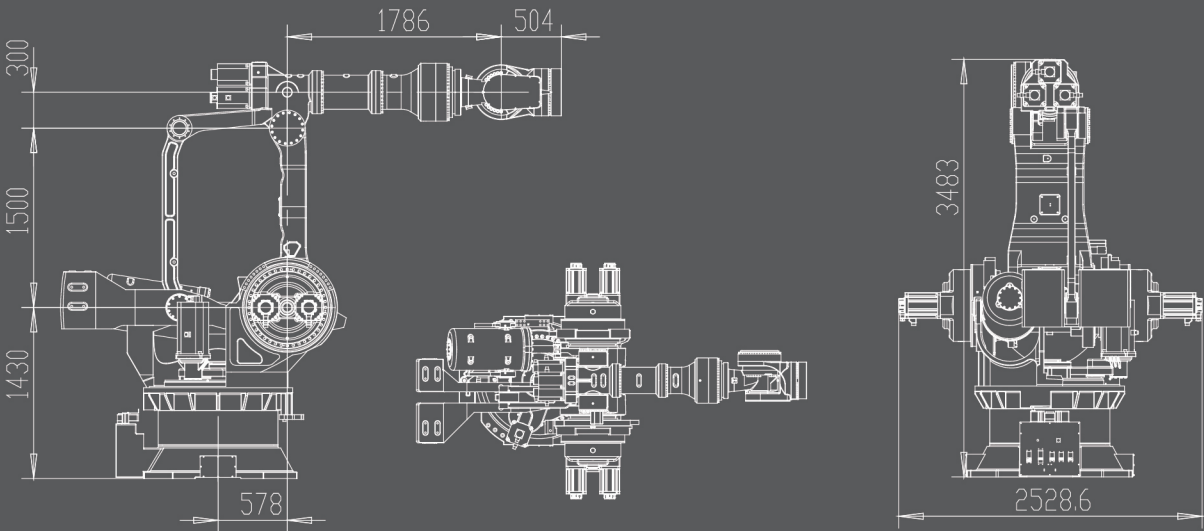
SF1500-C3870 Data Overview

Model		SF1500-C3870
Structure		Vertically Articulated
Number of Axis		6
Radius		3872mm
Payload		1500kg
Repeatability		±0.23mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	43°/s
	J2	25°/s
	J3	25°/s
	J4	43°/s
	J5	40°/s
	J6	56°/s
Range of Motion	J1	±180°
	J2	+50°/-85°
	J3	+20°/-120°
	J4	±360°
	J5	±115°
	J6	±360°
Allowable Moment	J4	14380N·m
	J5	14380N·m
	J6	4980N·m
Allowable Inertia	J4	2916kg·m ²
	J5	2916kg·m ²
	J6	2089kg·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		1280*1380mm
Height		3483mm
Weight		11200KG
Mounting Positions		Floor
Power Consumption		17kVA

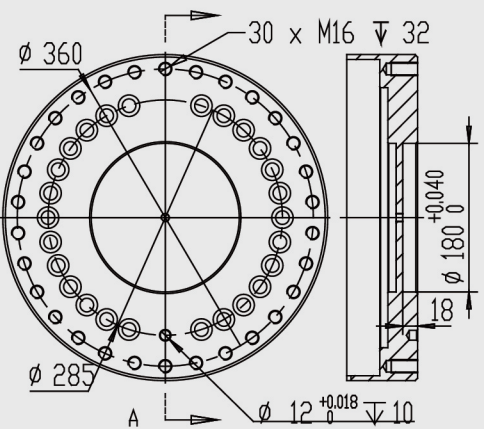
SF1500-C3870 Robot Motion Range Diagram



SF1500-C3870 External & Installation Dimensions



A Q view (end flange mounting dimensions)



B-side view (Base mounting dimensions)

