



Load 5000Kg

ALPHTIC series | heavy-duty robot model: SF5000-C3700

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 3700mm long 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.

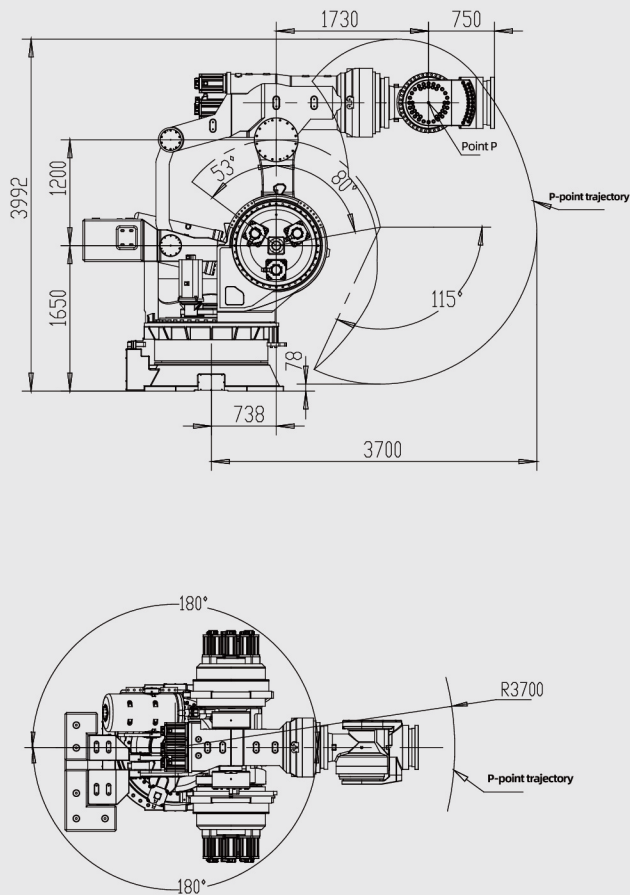
Applications



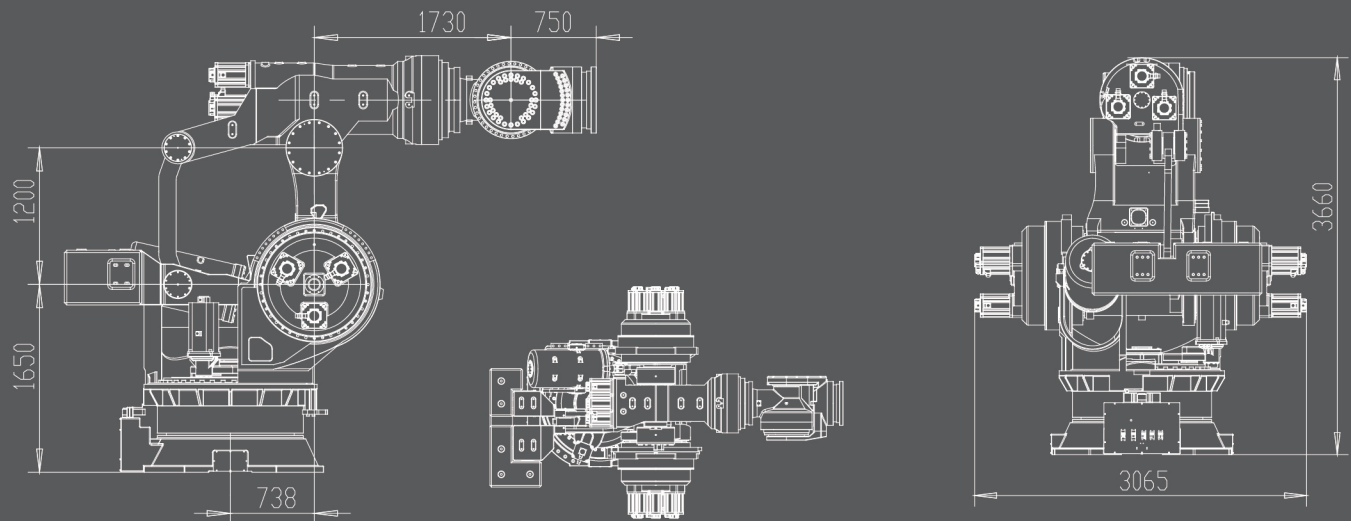
SF5000-C3700 Robot Performance Parameter Table

Model		SF5000-C3700
Structure		Vertically Articulated
Number of Axis		6
Radius		3700mm
Payload		5000kg
Repeatability		±0.3mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	10°/s
	J2	8°/s
	J3	8°/s
	J4	9°/s
	J5	8°/s
	J6	15°/s
Range of Motion	J1	±180°
	J2	+53°/-80°
	J3	+22°/-115°
	J4	±360°
	J5	±115°
	J6	±360°
Allowable Moment	J4	63520N·m
	J5	63520N·m
	J6	17262N·m
Allowable Inertia	J4	15265kg·m ²
	J5	15265kg·m ²
	J6	11366kg·m ²
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*1670mm
Height		3660mm
Weight		18966KG
Mounting Positions		Floor
Power Consumption		23.5kVA

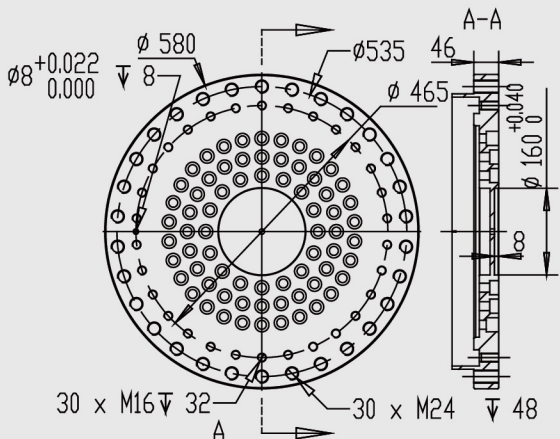
SF5000-C3700 Robot Motion Range Diagram



SF5000-C3700 External & Installation Dimensions



A-view (end flange installation dimensions)



B-view (base installation dimensions)

