



Load 6000Kg
ALPHTIC series | heavy-duty robot
model: SF6000-C3285

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 3285mm 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.

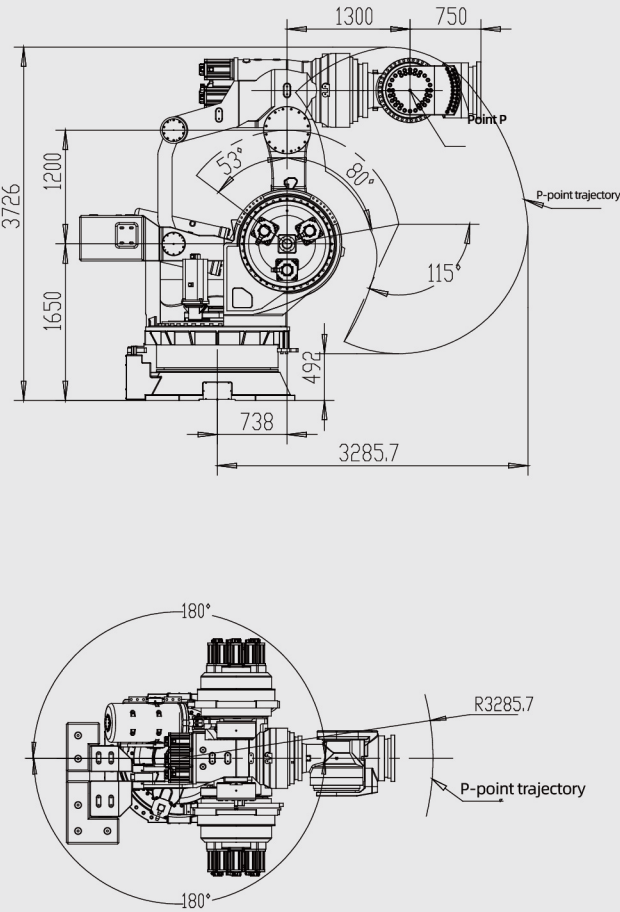
Applications



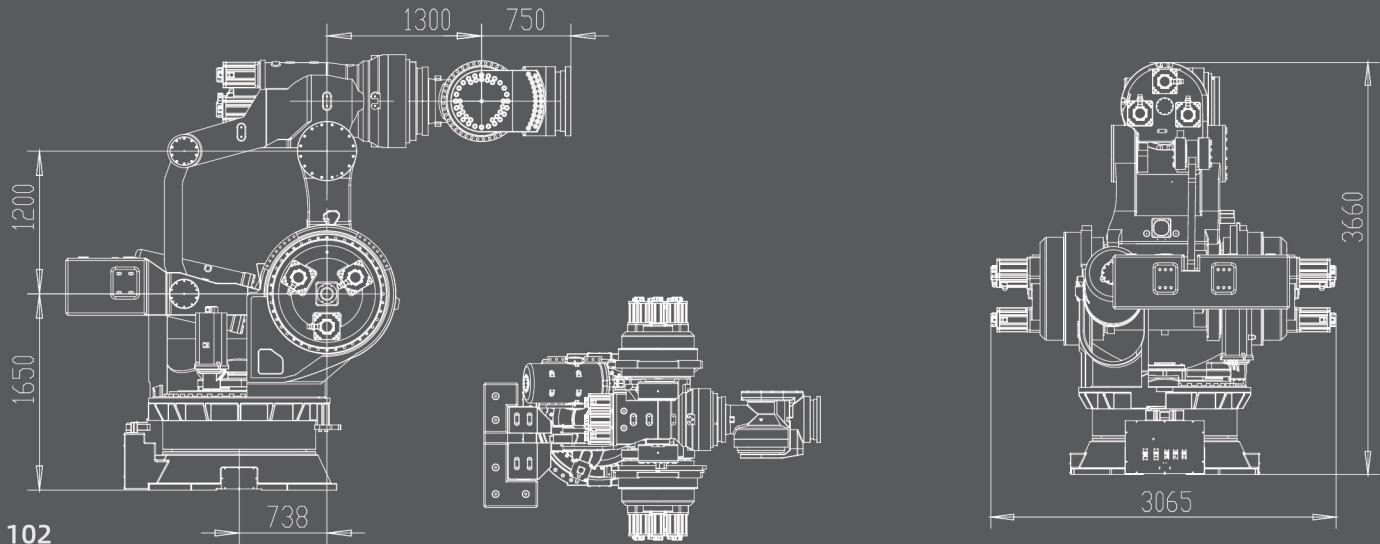
SF6000-C3285 Robot Performance Parameter Table

Model	SF6000-C3285	
Structure	Vertically Articulated	
Number of Axis	6	
Radius	3285mm	
Payload	6000kg	
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/s2
	Other	Eliminate Signal Noise
Base Size	1580*1670mm	
Height	3660mm	
Weight	18690KG	
Mounting Positions	Floor	
Power Consumption	23.5kVA	

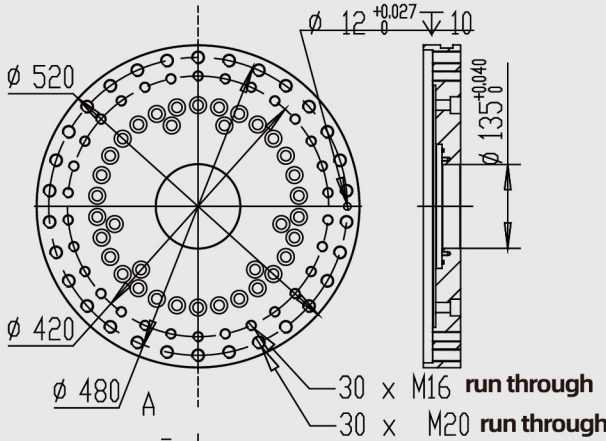
SF6000-C3285 Robot Motion Range Diagram



SF6000-C3285 External & Installation Dimensions



A-view (end flange installation dimensions)



B-view (base installation dimensions)

