Model: SF1200-C3765

SF ALPHTIC Series | Heavy Duty Robot

The SF ALPHTIC is the most powerful and technologically advanced heavy-duty robot, ideal for large, high-load applications, and its construction makes the SF ALPHTIC the perfect combination of power and technology.

The SF ALPHTIC 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 3765 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 SF ALPHTIC 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























Polishing

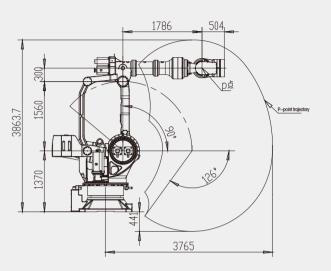
Glazing

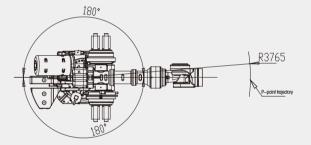
Picking/Packing Stamping

SF1200-C3765 Data Overview

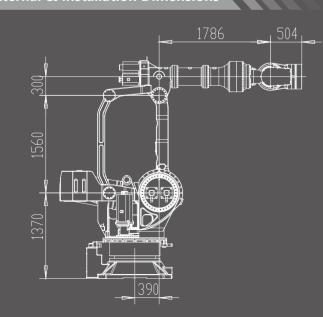
Structure Vertically Articulated	Model		SF1200-C3765
Radius	Structure		Vertically Articulated
Payload 1200kg	Number of Axis		6
Repeatability	Radius		3765mm
Drive Mode	Payload		1200kg
J1	Repeatability		±0.16mm
Maximum J2 30°/s Speed J4 50°/s J5 52°/s J6 72°/s Range of J3 +50°/-90° Motion J4 ±360° J5 ±115° J6 ±360° Allowable J5 14600N.m Moment J6 4850N.m Allowable J5 2960kg.m² Inertia J6 2150kg.m² Protection Rating IP 65, Wrist IP 67 Temp. 0-45°C Operating Humidity Below 4.9m/s2 Conditions Vibration Below 4.9m/s2 Eliminate Signal Noise Eliminate Signal Noise Base Size 1180*1180mm Height 3548mm Weight 7166KG Mounting Positions Floor	Drive Mode		AC Servo Motor
Second State		J2 J3 J4 J5	30°/s 30°/s 50°/s 52°/s
Allowable J5 14600N.m Moment J6 4850N.m Allowable J4 2960kg.m² 2960kg.m² 2150kg.m² Protection Rating IP 65, Wrist IP 67 Temp. 0-45°C Operating Humidity Below 95%RH Conditions Vibration Below 4.9m/s2 Other Eliminate Signal Noise Base Size 1180*1180mm Height 3548mm Weight 7166KG Mounting Positions Floor		J2 J3 J4 J5	+50°/-90° +20°/-126° ±360° ±115°
Allowable Inertia J5 2960kg.m² 2150kg.m² Protection Rating IP 65, Wrist IP 67 Temp. 0-45°C Operating Humidity Below 95%RH Conditions Vibration Below 4.9m/s² Eliminate Signal Noise Base Size 1180*1180mm Height 3548mm Weight 7166KG Mounting Positions Floor		J5	14600N.m
Temp. 0-45°C Operating Humidity Below 95%RH Conditions Vibration Below 4.9m/s2 Other Eliminate Signal Noise Base Size 1180*1180mm Height 3548mm Weight 7166KG Mounting Positions Floor		J5	2960kg.m ²
Operating Humidity Below 95%RH Conditions Vibration Below 4.9m/s2 Other Eliminate Signal Noise Base Size 1180*1180mm Height 3548mm Weight 7166KG Mounting Positions Floor	Protection Rating		IP 65, Wrist IP 67
Conditions Vibration Below 4.9m/s2 Other Eliminate Signal Noise Base Size 1180*1180mm Height 3548mm Weight 7166KG Mounting Positions Floor		Temp.	0-45°C
Other Eliminate Signal Noise Base Size 1180*1180mm Height 3548mm Weight 7166KG Mounting Positions Floor	Operating	Humidity	Below 95%RH
Base Size 1180*1180mm Height 3548mm Weight 7166KG Mounting Positions Floor	Conditions	Vibration	Below 4.9m/s2
Height 3548mm Weight 7166KG Mounting Positions Floor		Other	Eliminate Signal Noise
Weight 7166KG Mounting Positions Floor	Base Size		1180*1180mm
Mounting Positions Floor	Height		3548mm
	<i>-</i>		7166KG
Power Consumption 16kVA	•		Floor
	Power Consur	nption	16kVA

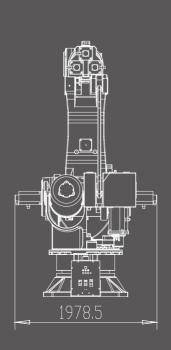
SF1200-C3765 Range of Motion



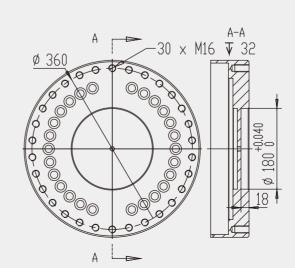


External & Installation Dimensions





A-Way Diagram (End Flange Mounting Dimensions)



B-Way Fiagram (Base Mounting Dimensions)

