

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

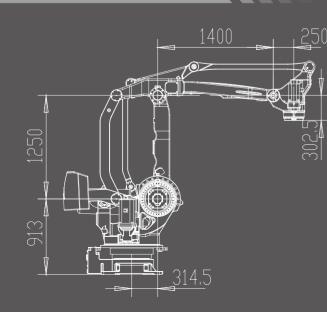
The ALPHTIC PA is CHAIFU's heavy-duty robot perfectly matched to any application due to its ultra-high craftsmanship and rugged structural design. The powerful motors and gearboxes are designed to perform a wide range of heavy-duty tasks. The long working stroke of 3177 mm allows it to fit comfortably in small work cells.

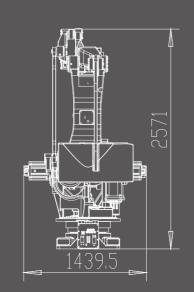
The three core components of the CHAIFU convince with their low cost, high efficiency, and low maintenance, even in heavy-duty applications.

All ALPHTIC PA 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.



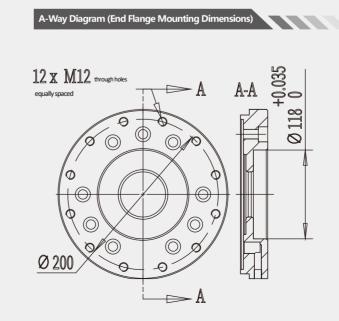
SF500-C3200 PA External & Installation Dimensions





SF500-C3200 PA Data Overview

ModelSF500-C3200 PAStructureVertically ArticulatedNumber of Axis4Radius3177mmPayload500kgRepeatability±0.3mmDrive ModeAC Servo MotorMaximumJ2J290°/sJ390°/sSpeedJ4J5/J6/Range ofJ2J290°/sJ4125°/sJ5/J6/AllowableJ4J5/MotionJ4J6/AllowableJ4J5/InertiaJ6Protection RatingIP 65, Wrist IP 67OperatingHumidityBelow 4.9m/s²OtherEliminate Signal NoiseBase Size710*700mmHeight2810KGWeight2810KGMounting PositionsFloorPower Consumption8kVA			
Number of Axis4Radius3177mmPayload500kgRepeatability±0.3mmDrive ModeAC Servo MotorMaximumJ290°/s90°/sSpeedJ4J290°/sJ6/Range ofJ2J6/AllowableJ4J5/J6/AllowableJ4J6/AllowableJ5J6/AllowableJ4J6/AllowableJ4J6/Protection RatingIP 65, Wrist IP 67Operating ConditionsHumidity Vibration OtherBase Size710*700mmHeight2810KG KGWeight2810KGMounting PositionsFloor	Model		SF500-C3200 PA
Radius 3177mm Payload 500kg Repeatability ±0.3mm Drive Mode AC Servo Motor Maximum J2 J2 90°/s Speed J4 J5 / J6 / Range of J2 J4 125°/s J5 / J6 / Allowable J4 J5 / Motion J3 J6 / Allowable J4 J5 / Moment J6 J6 / Allowable J4 J5 / J6 / Allowable J4 J5 / Inertia J6 J6 / Protection Rating IP 65, Wrist IP 67 Persection Rating Vibration Below 95%RH Other Conditions Vibration Below 4.9m/s² Other Elim	Structure		Vertically Articulated
Payload500kgPayload500kgRepeatability±0.3mmDrive ModeAC Servo MotorMaximumJ2J290°/sSpeedJ4J5/J6/Range ofJ2J2+50°/-85°MotionJ3J4±180°J4+50°/-85°MotionJ4J4±360°AllowableJ5J5/MomentJ6J6/AllowableJ4J5/InertiaJ6J6/Protection RatingIP 65, Wrist IP 67OperatingHumidityConditionsVibrationBase Size710*700mmHeight2463mmWeight2810KGMounting PositionsFloor	Number of Axis		4
Repeatability±0.3mmDrive ModeAC Servo MotorMaximumJ190°/sJ290°/sSpeedJ4125°/sJ5/J6/Range ofJ2±180°J4125°/sJ5/J6/Range ofJ2J4±180°/-113°±360°±360°AllowableJ4J42450N·m/J6AllowableJ4J6/AllowableJ4J6/Protection RatingIP 65, Wrist IP 67OperatingHumidityConditionsVibrationBelow 95%RHConditionsVibrationBelow 4.9m/s²OtherEliminate Signal NoiseBase Size710*700mmHeight2810KGMounting PositionsFloor	Radius		3177mm
Drive ModeAC Servo MotorDrive ModeAC Servo MotorMaximumJ2J290°/sSpeedJ4J4125°/sJ5JJ6/Range ofJ2HotionJ3HotionJ4J2+50°/-85°MotionJ4J42450N·mJ6/AllowableJ4J6/AllowableJ4J6/AllowableJ4J6/Protection RatingIP 65, Wrist IP 67OperatingHumidityVibrationBelow 95%RHConditionsVibrationBase Size710*700mmHeight2463mmWeight2810KGMounting PositionsFloor	Payload		500kg
Jine modeJ190°/sMaximumJ290°/sJ390°/sJ4125°/sJ5/J6/Range ofJ2+50°/-85°MotionJ3+10°/-113°±360°AllowableJ4J5/J6AllowableJ4J6AllowableJ4J6/AllowableJ4J6/Protection RatingIP 65, Wrist IP 67OperatingHumidityConditionsVibrationBelow 4.9m/s²OtherEliminate Signal NoiseBase Size710*700mmHeight2810KGMounting PositionsFloor	Repeatability		±0.3mm
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Inertia J5 / Inertia J6 // Protection Rating IP 65, Wrist IP 67 Operating Humidity Below 95%RH Conditions Vibration Below 4.9m/s² Other Eliminate Signal Noise Base Size 710*700mm Height 2463mm Weight 2810KG Mounting Positions Floor		J5	/
Temp.0-45°COperating ConditionsHumidity VibrationBelow 95%RHVibrationBelow 4.9m/s²OtherEliminate Signal NoiseBase Size710*700mmHeight2463mmWeight2810KGMounting PositionsFloor	/ morrabic	J5	/
Operating ConditionsHumidity WibrationBelow 95%RH Below 4.9m/s²OtherEliminate Signal NoiseBase Size710*700mm 2463mmHeight2463mm 2810KGWeight2810KGMounting PositionsFloor	Protection Rating		IP 65, Wrist IP 67
Conditions Vibration Below 4.9m/s² Other Eliminate Signal Noise Base Size 710*700mm Height 2463mm Weight 2810KG Mounting Positions Floor		Temp.	0-45°C
ConditionsVibrationBelow 4.9m/s²OtherEliminate Signal NoiseBase Size710*700mmHeight2463mmWeight2810KGMounting PositionsFloor	Operating	Humidity	Below 95%RH
Base Size710*700mmHeight2463mmWeight2810KGMounting PositionsFloor	Conditions	Vibration	Below 4.9m/s ²
Height2463mmWeight2810KGMounting PositionsFloor		Other	Eliminate Signal Noise
Weight2810KGMounting PositionsFloor	Base Size		710*700mm
Mounting Positions Floor	Height		2463mm
			2810KG
Power Consumption 8kVA			
	Power Consur	nption	8kVA



SF500-C3200 PA Range of Motion

