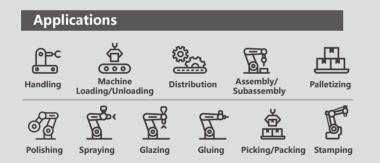## SF MIMETIC Series | Medium Payload Robot
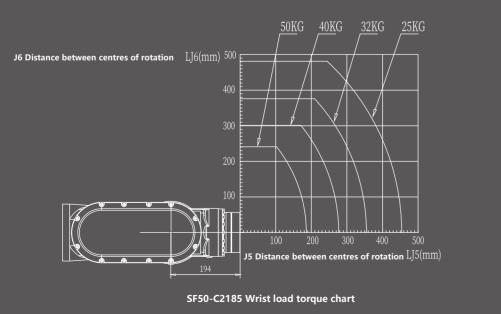## Model: SF50-C2185

The SF MIMETIC is a medium payload industrial robot with a superior working range, advanced servo control technology, and an extremely rigid arm, significantly reducing cycle times and ensuring high productivity.

SF MIMETIC is a complete solution for medium payload class industrial robots to secure your future planning and production investment. From 20 kg up to 120 kg of fine load breakdown.

It is the perfect solution to ensure accuracy and production quality. Whether handling, machine loading/unloading, painting, stamping, palletizing, grinding, picking/packing, or assembly/distribution. In addition, you will have the freedom to choose the robot corresponding to your actual needs for greater efficiency and economic benefits.

All SF MIMETIC series are equipped with LIKEPRECISION technology, the ultra-precise RV Precision Gearbox, which enables the robot to take full advantage of its advantages even at high operating speeds.
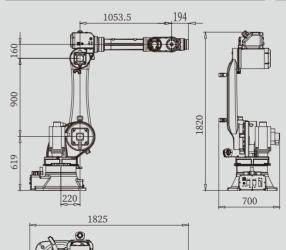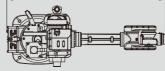
Applications

Handling	Machine Loading/Unloading	Distribution	Assembly/Subassembly	Palletizing

Polishing	Spraying	Glazing	Gluing	Picking/Packing	Stamping

SF50-C2185 Data Overview

Model		SF50-C2185
Structure		Vertically Articulated
Number of Axis		6
Radius		2185mm
Payload		50kg
Repeatability		±0.08mm
Drive Mode		AC Servo Motor
Maximum Speed	J1	109^0 /s
	J2	125^0 /s
	J3	140^0 /s
	J4	200^0 /s
	J5	210^0 /s
	J6	190^0 /s
Range of Motion	J1	$±172^0$
	J2	$+72^0$ /-140^0
	J3	$+172^0$ /-78^0
	J4	$±360^0$
	J5	$+124^0$/-121^0
	J6	$±360^0$
Allowable Moment	J4	185N.M
	J5	185N.M
	J6	126N.M
Allowable Inertia	J4	12kg.m2
	J5	12kg.m2
	J6	9.6kg.m2
Protection Rating		IP 65
Operating Conditions	Temp.	0-45℃
	Humidity	Below 95%RH
	Vibration	Below 4.9m/s2
	Other	Eliminate Signal Noise
Base Size		630*570mm
Height		1820mm
Weight		550KG
Mounting Positions		Any angle
Power Consumption		5kVA

SF50-C2185 Range of Motion

SF50-C2185 Wrist load torque chart

J6 Distance between centres of rotation LJ6(mm)

50KG 40KG 32KG 25KG

J5 Distance between centres of rotation LJ5(mm)

Note: The centre of gravity point of the load should be within the wrist torque diagram when in use
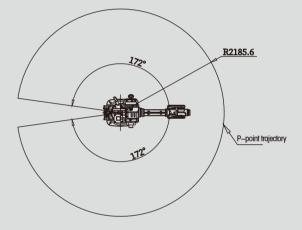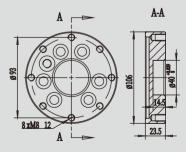
External & Installation Dimensions

A-Way Diagram (End Flange Mounting Dimensions)

B-Way Fiagram (Base Mounting Dimensions)