

SYB0803A

6 Axis Robot Arm
Payload :3kg
Armspan:800mm
Repeated Positioning
Accuracy:±0.05mm



SYH1505A

6 Axis Robot Arm
Payload :5kg
Armspan:1520mm
Repeated Positioning
Accuracy:±0.05mm



SYH1506K

6 Axis Robot Arm (Hollow)
Payload :6kg
Armspan:1500mm
Repeated Positioning
Accuracy:±0.05mm



SYB1506A

6 Axis Robot Arm
Payload :6kg
Armspan:1500mm
Repeated Positioning
Accuracy:±0.05mm



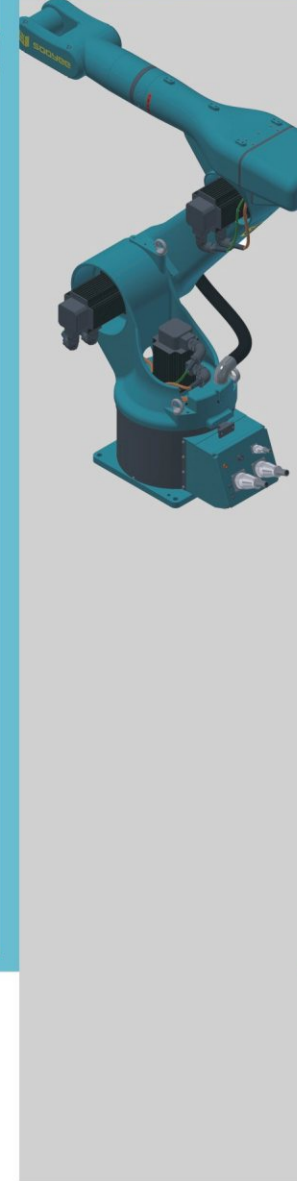
SYB1410B

6 Axis Robot Arm
Payload :10kg
Armspan:1400mm
Repeated Positioning
Accuracy:±0.05mm



SYB2020A

6 Axis Robot Arm
Payload :20kg
Armspan:2000mm
Repeated Positioning
Accuracy:±0.08mm



SYB1830A

6 Axis Robot Arm
Payload :30kg
Armspan:1800mm
Repeated Positioning
Accuracy:±0.08mm



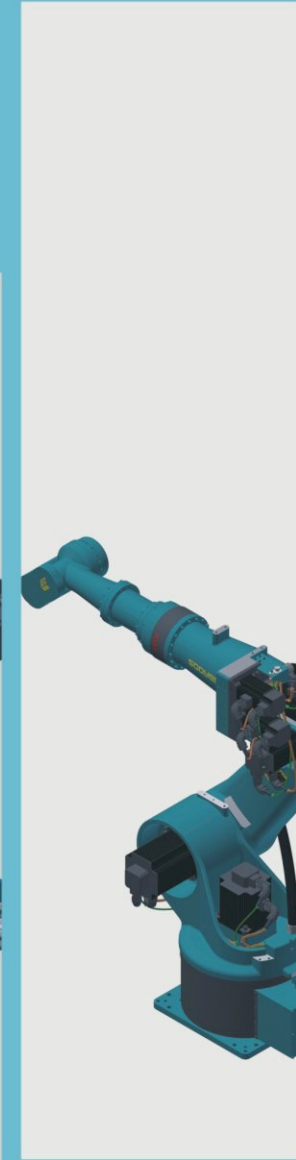
SYM1550A

6 Axis Robot Arm
Payload :50kg
Armspan:1500mm
Repeated Positioning
Accuracy:±0.12mm



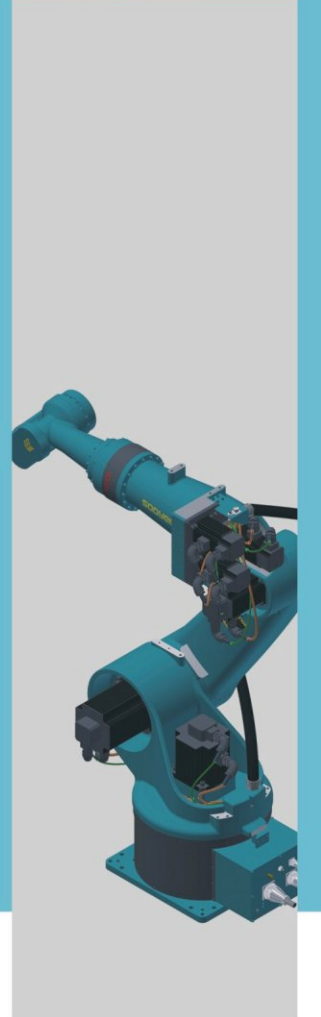
SYB2560A

6 Axis Robot Arm
Payload :60kg
Armspan:2500mm
Repeated Positioning
Accuracy:±0.15mm



SYB2380A

6 Axis Robot Arm
Payload :80kg
Armspan:2300mm
Repeated Positioning
Accuracy:±0.15mm



Industrial Robot Body



Electric Cabinet, Teaching Pendant

SY Series Industrial Robots

SY series of industrial robot body and controller are researched and developed by our company with independent intellectual property rights. The advantages are : highly cost-effective, Well-knit structure, flexibility, high reliability, easy maintenance. The motion of each joint of the robot is realized by a servo motor and a high precision and rigidity reducer. Each servo motor is equipped with an power-off brake. Every unit of robot is equipped with electric cabinet and teaching pendant. This SY series is with high speed ability, high-precision, high safety, powerful function.

Technical Parameter



SYB0803A

SYH1505A

SYH1506K

SYB1506A

SYB1410B

SYB2020A

SYB1830A

SYM1550A

SYB2560A

SYB2380A

	SYB0803A	SYH1505A	SYH1506K	SYB1506A	SYB1410B	SYB2020A	SYB1830A	SYM1550A	SYB2560A	SYB2380A	
Basic parameter	Degree of Freedom	6	6	6	6	6	6	6	6	6	
	Payload	3 kg	5 kg	6 kg	6 kg	10 kg	20 kg	30 kg	50 kg	60 kg	80 kg
	Payload for J3 Axis	5 kg	12 kg	12 kg	12 kg	12 kg	25 kg	25 kg	20 kg	30 kg	30 kg
	Repeated Positioning Accuracy	±0.05mm	±0.05mm	±0.05mm	±0.05mm	±0.05mm	±0.08mm	±0.08mm	±0.15mm	±0.15mm	±0.15mm
	Self Weight	56 kg	158kg	164 kg	162 kg	160 kg	260 kg	255 kg	300 kg	560 kg	550 kg
	Installation Method	Ground Mounted	Ground Mounted	Ground Mounted	Ground Mounted	Ground Mounted	Ground Mounted	Ground Mounted	Ground Mounted	Ground Mounted	Ground Mounted
	Power Capacity	1.1 kw	3.0 kw	3.0 kw	3.0 kw	3.0 kw	5.0 kw	5.0 kw	7.0 kw	12.5 kw	12.5 kw
	Brake	J2,3,5 Shaft Brake	J2,3,4,5 Shaft Brake	Whole Shaft Brake	Whole Shaft Brake	Whole Shaft Brake	Whole Shaft Brake	Whole Shaft Brake	Whole Shaft Brake	Whole Shaft Brake	Whole Shaft Brake
Motion range	Maximum Reach Distance	800 mm	1520mm	1500mm	1500mm	1400 mm	2000 mm	1800 mm	1500 mm	2500 mm	2300 mm
	Minimum Reach Distance	190 mm	365 mm	365 mm	365 mm	365 mm	499 mm	491 mm	460 mm	710 mm	603 mm
	Axis J1(turn)	±170°	±170°	±170°	±170°	±170°	±170°	±170°	±170°	±170°	±170°
	Axis J2(lower arm swinging)	-90°~ +75°	-160°~ +80°	-160°~ +80°	-160°~ +80°	-160°~ +80°	-170°~ +90°	-170°~ +90°	-160°~ +90°	-165°~ +90°	-165°~ +90°
	Axis J3(uper arm swinging)	-90°~+90°	-85°~ +90°	-85°~ +90°	-85°~ +90°	-85°~+90°	-85°~ +95°	-85°~ +95°	-84°~ +90°	-84°~ +145°	-84°~ +145°
	Axis J4(arm rotary)	±170°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°
	Axis J5(wrist pitch)	±120°	±120°	-100°~ +120°	±120°	±120°	±135°	±135°	±125°	±125°	±125°
	Axis J6(wrist rotary)	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°
Speed	Axis J1(turn)	190°/s	138°/s	138°/s	138°/s	138°/s	104°/s	104°/s	104°/s	83°/s	83°/s
	Axis J2(lower arm swinging)	225°/s	138°/s	138°/s	138°/s	138°/s	104°/s	104°/s	104°/s	83°/s	83°/s
	Axis J3(uper arm swinging)	270°/s	223°/s	223°/s	223°/s	223°/s	138°/s	138°/s	138°/s	104°/s	104°/s
	Axis J4(arm rotary)	270°/s	270°/s	270°/s	270°/s	270°/s	168°/s	168°/s	300°/s	212°/s	212°/s
	Axis J5(wrist pitch)	337°/s	337°/s	337°/s	337°/s	337°/s	270°/s	270°/s	223°/s	223°/s	223°/s
	Axis J6(wrist rotary)	420°/s	420°/s	550°/s	540°/s	540°/s	337°/s	337°/s	333°/s	333°/s	333°/s
	Synthetic arm tip speed	1.5 m/s	1.5 m/s	1.5 m/s	1.5 m/s	1.5 m/s	1.2 m/s	1.2 m/s	1.0 m/s	1.0 m/s	1.0 m/s
Application and other information	End flange	solid	solid	hollow	solid	solid	solid	solid	solid	solid	solid
	Can it be changed to 5 axis?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Can it be customized for the upside down installation?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
	Main Application	Material handling, palletizing, machine tool loading and unloading, education robot, playing chess	Welding	Welding	Material handling, palletizing, machine tool loading and unloading, Gluing, spraying	Material handling, palletizing, machine tool loading and unloading, Gluing, spraying	Material handling, palletizing, machine tool loading and unloading, spraying	Material handling, palletizing, machine tool loading and unloading, spraying	Material handling, palletizing, machine tool loading and unloading, deburring, polishing	Material handling, palletizing, machine tool loading and unloading	Material handling, palletizing, machine tool loading and unloading