# **EPSON S5-Series**



### **6 Axis Articulated Robots**

### **High Speed and Long Reach**

- High Rigidity Arm = Ultra High Speed
- Long Reach and Heavy Payload
- Robust SlimLine Design for Increased Flexibility
- Compact Wrist Design for Superior Agility
- Arm Lengths from 786 975 mm
- Low Vibration Arm for Smooth Motion
- ISO 4 Clean & IP65 Compliant Models

EPSON S5-Series robots provide superior performance along with industry leading PC based controls. They are high speed, mid range 6 axis robots with a small footprint and advanced flexibility for even the most demanding applications.

Featuring EPSON's new SlimLine design which boasts a slim body and compact wrist pitch axis, S5-Series robots are able to easily reach into confined and restricted work spaces from many angles with smooth motion. The SlimLine body and compact wrist enables greater motion range and less mechanical restrictions. Whether you are looking for higher speed, longer reach, higher payloads or robots for special environment use, EPSON has the S5 model to fit your application requirements.

S5-Series robots are ideal for applications where 6 axis dexterity is required such as small parts assembly, dispensing, lab automation, machine tending, material handling, medical device manufacturing, packaging, food handling and may other applications requiring speed, precision and/or smooth motion.





## **EPSON S5-Series Specifications**



EPSON ROBO	T MODEL	S5-A701**	S5L-A901**
Configuration		Articulated 6 Axis	
Mounting Configurations		Table Top, Ceiling, Wall (J1 motion restriction +/- 30 deg	
Payload		Rated 2kg / M	ax. 5kg (7kg*1)
Repeatability		+/-0.02 mm	+/-0.03 mm
Axis Rotation	J1 (Turning)	+/-170 deg	
	J2 (Lower Arm)		+65 deg
	J3 (Upper Arm)	+190 ~ -70 deg	+190 ~ -72 deg
	J4 (Wrist Roll)	+/-190 deg	
	J5 (Wrist Bend)	+/-135 deg	
	J6 (Wrist Twist)	+/-36	60 deg
Horizontal Reach	to mounting face	786	975
	to wrist center	706	895
Vertical Reach	to mounting face	1028	1215
	to wrist center	948	1135
Speed	J1	376 deg/sec	270 deg/sec
	J2	350 deg/sec	280 deg/sec
	J3	400 deg/sec	300 deg/sec
	J4	450 deg/sec	
	J5	450 deg/sec	
	J6	720 deg/sec	
Cycle Time	1kg payload	0.44 sec	0.49 sec
Allowable Moment	J4	12 N*m	
	J5	12 N*m	
	J6	7 N*m	
Moment of Inertia	J4	0.3 kg*m²	
	J5	0.3 kg*m²	
	J6	0.1 kg*m²	
Motor Ratings	Axis 1	400 watts	
	Axis 2	400 watts	
	Axis 3	200 watts	
	Axis 4	50 watts	
	Axis 5 Axis 6	50 watts 50 watts	
Environment	Temperature	0 ~ 45 deg C	
	Humidity	20 ~ 80% RH (no condensation)	
	Other:		
	Other.	Keep away from: • Flammable /corrosive gases	
		Flammable / corrosive solvents	
		<ul> <li>Water or oil and powder dust</li> </ul>	
		Sources of electric noise	
Weight		36 kg	38 kg
User Lines		•	c, 2 Pneumatic
Brakes		All axes	
Safety Regulations		ANSI/RIA: R15.06 compliance	
		CE compliance	
		EN775, EN60204-1, EN55011, EN61000-6-2, EN6095	
Optional Arm Clean		ISO 4 Clean	
Configurations			
Available Controllers		Micro PowerDrive RC180	
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<sup>\*1</sup> Some limitations exist at payloads above 5kg. Contact EPSON Robots for details.

Specifications are subject to change without notice





Micro PowerDrive RC180



PC Based Controller RC620+

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