

Epson LS50C SCARA Robot



Epson LS—powerful performance at a remarkable value.

High performance, flexibility and value — high throughput with heavy payloads and multiple configurations to accomplish the most demanding assembly needs—all at an affordable price

Fast cycle times — high acceleration, smooth motion and fast settling times help maximize throughput

Ultimate ease of use — intuitive and feature-packed Epson RC+® development software helps create powerful solutions with a simple user interface, integrated debugger and advanced 3D simulator

Designed for reliability — innovative, compact design handles heavy workloads at fast speeds and high precision within a small footprint

Low total cost of ownership — includes features that help reduce support and installation costs: batteryless encoders, a built-in Ethernet cable, Epson RC+ software and a rich suite of safety features

Accelerate the development of workcell applications — fully integrated, optional solutions include vision guidance, parts feeding, conveyor tracking and fieldbus; Epson RC+ Solutions Platform allows for seamless expansion of third-party solutions, benefiting developers and end users

Increase user interaction without sacrificing productivity — SafeSense™ technology's standard and advanced safety features, with a proper risk assessment, help allow for increased productivity and worker protection while potentially minimizing workcell footprint due to the reduction of physical barriers

Minimize the workcell space requirement with an optimized robot footprint — 1,000 mm reach available

World-class service and support — with four decades of automation experience, Epson provides support for your automation needs through its dedicated application and service teams

Model Name		LS50C SCARA Robot
Model Number		LS50CA0x
Mounting Type		Tabletop
Arm Length	Joint #1 Plus Joint #2	1,000 mm
Repeatability	Joints #1 - #2	±0.05 mm
	Joint #3	±0.02 mm
	Joint #4	±0.01 deg
Payload	Rated	30 kg
	Max.	50 kg
Max. Motion Range	Joint #1	±132 deg
	Joint #2	±135 deg
	Joint #3	210 mm/400 mm
	Joint #4	±360 deg
Joint #4 Allowable Moment of Inertia	Rated	1 kg·m ²
	Max.	2.45 kg·m ²
User Electric Lines		15-Pin (D-Sub), 9-Pin (D-Sub), 8-Pin (RJ45)
User Pneumatic Lines		ø6 mm x 2, ø8 mm x 2
Brakes		Joint #3 and Joint #4
Power		AC 200 V – 240 V (single phase)
Power Consumption		2.4 kVa
Power Cable Length		3 m/5 m/10 m
Weight (Cables Not Included)		LS50CA02x - 60 kg LS50CA04x - 61 kg
Applicable Controller		RC800A
Installation Environment		Standard
Safety Standards		TUV-certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849
What's Included		LS50C robot and RC800A controller, E-Stop unit with cable and connector, cable with flying leads for controller E-stop/Safety connection, connector set (I/O, hand I/O and safety circuit connectors)
Options		
Vision Guide		Available
IntelliFlex™ Feeders		Available
Conveyor Tracking		Available
Epson RC+ API 8.0		R19NZ901JK
GUI Builder 8.0		R19NZ901JQ
Fieldbus Master		Available
Fieldbus Slave (EtherNet/IP®, EtherCAT®, PROFINET, PROFIBUS, CC-Link)		Available
External Control Point (ECP) 8.0		R19NZ901JL
Teach Pendant		Available
Epson OPC UA for Robotics		R19NZ901JZ

Support

Customer Service
(562) 290-5920
service@robots.epson.com

Applications Support
(562) 290-5930
applications@robots.epson.com

Sales Inquiries
(562) 290-5997
info@robots.epson.com

See the latest innovations from Epson Business Solutions at [epson.com/forbusiness](https://www.epson.com/forbusiness)

Epson America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

Epson Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3

epson.com
epson.ca

Specifications and terms are subject to change without notice. EPSON and Epson RC+ are registered trademarks is a trademark of Seiko Epson Corporation. IntelliFlex and SafeSense are trademarks of Epson America, Inc. All other product and brand names are trademarks and/or registered trademarks of their respective companies. Epson disclaims any and all rights in these marks. Copyright 2025 Epson America, Inc. CPD-66179 7/25

Contact: