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EPSON®

LS50C SCARA Robot



Product Highlights

- High performance, flexibility and value
- Fast cycle times
- Easy-to-use, powerful Epson RC+ software
- Designed for reliability
- Accelerate application development with optional integrated solutions

Overview

Epson LS—powerful performance at a remarkable value

Built upon four decades of expertise in implementing automation in our own manufacturing, LS-C Series S… …ed to deliver powerful performance and flexibility in a compact footprint at a remarkable value.

Engineered to meet your unique automation needs, the LS50C offers multiple configurations and a 1,000 mm reach to accomplish the most demanding tasks with high precision—all at an affordable price. Its innovative, compact design handles payloads of up to 50 kg from a conveniently small form factor. Combined with SafeSense™ technology, which can potentially remove the need for physical safety barriers with a proper risk assessment, users can reduce the footprint and overall cost of their robot automation system.

Designed for ease of use, Epson RC+® software works seamlessly with the LS50C to create powerful automation solutions and offers integrated options to simplify the most complex applications. Fully integrated, optional solutions—including vision guidance, parts feeding, conveyor tracking and fieldbus—accelerate the development of workcell applications, saving valuable time and money. The Epson RC+ Solutions Platform allows for seamless expansion of third-party solutions, benefiting both developers and end users.

- **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

Eco Features

- RoHS compliant
- Epson America, Inc. is a SmartWay® Transport Partner[1]

What's In The Box:

- LS50C robot and RC800A controller with safety board
- Robot power and signal cables
- Connector set (I/O, hand I/O and safety circuit connectors)

Specifications ▶

Core Specifications:

Arm Length / Reach:

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 (Kg):
Max: 50 Kg
Rated: 30 Kg

Brakes:
Joint #3 and Joint #4

Mounting Configurations:
Tabletop

Other Specifications:

Controller:
RC800A

Weight:
LS50CA02x - 60 kg
LS50CA04x - 61 kg

Robotics Facets:

Type, Robotics Facets:
SCARA Robots

Robot Series:
SCARA LS-Series

Payload (Max.):
50

Arm Length / Reach:
1000

Installation Environment:
Standard
Tabletop Mount

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