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Epson LS3-B SCARA Robot - 400mm



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Product Highlights

- Residual Vibration Technology
- Intuitive Epson RC+ development software
- Smooth start/stop with high accel/decel rates
- Fast cycle times to optimize part throughput
- Up to 3 kg payload, reach of 400 mm

Overview

Performance, speed, payload up to 3 kg and a 400 mm reach.

Ideal for high-precision, small-parts assembly, the LS3-B SCARA Robot provides a high-performance solution with features including proprietary Residual Vibration Technology and intuitive Epson RC+® development software. Epson's powerful servo system allows for low residual vibration, high acceleration and deceleration rates, and high-speed cycle times. Available in an ISO 4 Clean version for critical, dust-free applications, the LS3-B delivers a payload up to 3 kg and a reach of 400 mm. It also supports integrated options including parts feeding, vision, fieldbus interface solutions, RC+ 7.0 API software, teach pendants and customizable GUIs.

- **Powerful performance with minimal overshoot** — powered by Epson's proprietary Residual Vibration Technology
- **Easy to use** — intuitive, feature-packed Epson RC+ development software makes it simple to create high performance solutions
- **Outstanding acceleration/deceleration rates** — smooth start/stop motion to optimize cycle times
- **High-speed cycle times** — maximize parts throughput
- **Ideal for high-precision, small-parts assembly** — up to 3 kg payload, reach of 400 mm
- **Integrated options** — vision, designed specifically for robot guidance; plus, parts feeding, fieldbus interface solutions, RC+ 7.0 API software for open-platform functionality, teach pendants and customizable GUIs
- **ISO 4 Clean models available** — for critical dust-free applications
- **Easy setup** — built-in camera cable for optional vision system; top-of-arm electrical and pneumatic layout with screw holes to mount additional equipment
- **No battery required for encoder** — minimizes downtime and eliminates the cost for battery replacement and installation

What's In The Box:

- LS3-B robot and RC90-B controller
- Robot power and signal cables
- Epson® RC+ software E-Stop unit with cable
- LS3-B Robot System Safety & Installation Manual
- Connector set (I/O, hand I/O and safety circuit connectors)

Specifications

Core Specifications:

Arm Length / Reach:
LS3-B40x: 400 mm J1+J2

Repeatability:
J1 + J2: +/-0.010 mm
J3: +/-0.010 mm
J4: +/-0.010 deg

Payload (Kg):
Max: 3 Kg
Rated: 1 Kg

Cycle Time:

LS3-B40x: 0.42 secs

Optional Arm Configurations:
Mounting Type: Tabletop
Clean: ISO 4 Clean

Other Specifications:

Motor Wattage:
J1: 200Watts
J2: 100 Watts
J3: 100 Watts
J4: 100 Watts

User Lines:
Electric: 15 lines
Air: 6mm x 2, 4mm x 1

Environmental:
Temperature: 5- 40 deg C
Humidity: 10 - 80% (non condensing)

Weight:
LS3-B40x: 14 Kg

Dimensions:
Mounting Hole Footprint(mm): 120 x 120 (4-M8)
Z Axis Diameter: 16 mm

Robot Cables:
3M (standard), 5M (optional), 10M (optional)

Robotics Facets:

Type, Robotics Facets:
SCARA Robots

Robot Series:
SCARA LS-B Series

Payload (Max.):
3

Arm Length / Reach:
400

Cycle Time:
0.42

Installation Environment:
Tabletop Mount
Cleanroom
Standard

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