DISTRIBUTED BY:
Air-Oil Systems, Inc.
AUTOMATION SOLUTIONS
753 WAMBOLD ROAD SOUDERTON, PA 18964-2715
215.721.9595 800.333.5520 FAX 215.721.7666
www.airoil.com

# Epson LS6-B SCARA Robot - 700mm




**Maximum Payload (kg):** 6 kg

6

**Arm Length / Reach (mm):** 700 mm

500 600 700

Contact Us 562-290-5910

## Product Highlights

- Full-featured; remarkable value
- Easy-to-use Epson RC+ programming software
- Gyro sensors for low residual vibration
- Smooth start/stop with high accel/decel rates
- Fast cycle times to optimize part throughput

## Overview

### Powerful performance at a remarkable value.

Perfect for factories in need of reliable performance at a budget-friendly price, the LS6-B SCARA Robot provides a low-cost solution packed full of features, all in a compact design. Intuitive Epson RC+® development software makes it easy to customize your automation needs, while a powerful arm allows for reaches up to 700 mm. The LS6-B features a 6 kg payload, plus high acceleration/deceleration rates and high-speed cycle times. It's available in an ISO 4 Clean version for critical, dust-free applications. There are also integrated options available including vision, fieldbus interface solutions, RC+ 7.0 API software, teach pendants and customizable GUIs.

- **Reliable performance at a remarkable value** — full-featured robot at an affordable price
- **Easy to use** — intuitive and feature-packed Epson RC+ development software makes it easy to create high-performance solutions
- **Powerful servo system design** — proprietary Epson gyro sensors allow for low residual vibration
- **Outstanding acceleration/deceleration rates** — smooth start/stop motion
- **High speed** — delivers fast cycle times to maximize part throughput
- **ISO 4 Clean models available** — for critical dust-free applications
- **Versatility for multiple applications** — with reach up to 500 mm, up to 6 kg payload, and multi-tool capable. Also available in reaches up to 500 mm and 600 mm.
- **Integrated options** — vision, designed specifically for robot guidance; plus, fieldbus interface solutions; RC+ 7.0 API software for open-platform functionality; teach pendants; and customizable GUIs
- **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 reduces overall cost of ownership

## Specifications

# Core Specifications:

**Arm Length / Reach:**
Length — Joint 1 plus Joint 2: 700 mm

**Repeatability:**
- Joints 1-2: ± 0.02 mm
- Joint 3: ± 0.01 mm
- Joint 4: ± 0.01 deg

**Payload (Kg):**
Max: 6 Kg
Rated: 2 Kg

**Cycle Time:**
0.42 secs

**Motion Range:**
- Joint 1: ± 132 deg
- Joint 2: ± 150 deg
- Joint 3 Standard: 200 mm
- Joint 3 Clean: 170 mm
- Joint 4: ± 360 deg

**Allowable Moment of Inertia:**
Max: 0.12 $kg \cdot m^2$
Rated: 0.01 $kg \cdot m^2$

**Brakes:**
Z-Axis only

**Mounting Configurations:**
Tabletop

## Other Specifications:

**Power Consumption:**
1.1 kVa

**Installation Environment:**
Standard or Cleanroom (ISO 4)

**Controller:**
RC90-B

**User Lines:**
Electric: 15-pin (D-sub), 8-pin (RJ45 Cat 5e)
Pneumatic: ø6 mm x2, ø4 mm x1

**Weight:**
18 kg: 39.7 lb (cables not included)

**Robot Cables:**
3 m/5 m/10 m

**Safety Regulations:**
CE Marking: EMC Directive, Machinery Directive
KC Mark, KCs Mark
ANSI/RIA R15.06-2012
NFPA79 (2007 Edition)

**Power:**
AC 200 - 240 V Single Phase

## Options:

**Robot Options:**
- Vision Guide (CV2 or PV1)
- I/O: DeviceNet, EtherNEt/IP, ProfiNet
- Teach Pendant 1 & 2
- Camera Mounting Bracket

**Software Options:**

- .NET Support (EPSON RC+ 7.0 API)
- OCR (for use with Vision Guide)
- GUI Builder 7.0
- External Control Point (ECP) Option

## Robotics Facets:

**Type, Robotics Facets:**
SCARA Robots

**Robot Series:**
SCARA LS-B Series

**Payload (Max.):**
6

**Arm Length / Reach:**
700

**Cycle Time:**
0.42

**Installation Environment:**
Standard
Tabletop Mount
Cleanroom

DISTRIBUTED BY:
Air-Oil Systems, Inc.
AUTOMATION SOLUTIONS
753 WAMBOLD ROAD SOUDERTON, PA 18964-2715
215.721.9595 800.333.5520 FAX 215.721.7666
www.airoil.com