EPSON®

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New

Epson LA6A SCARA Robot



Maximum Payload (kg): 6 kg

3 | 6

Product Highlights

- Cost-effective industrial automation
- Fast cycle times
- Easy-to-use, powerful Epson RC+ software
- Designed for reliability
- Accelerate application development with optional integrated solutions

Overview

Epson LA—powerful performance and essential features meet next-level value

Built upon four decades of expertise in implementing automation in our own manufacturing, LA-A Series SCARA robots are designed to deliver powerful performance in a compact footprint at a remarkable value.

Engineered to meet unique automation needs, the LA6A offers a 500 mm, 600 mm or 700 mm reach to accomplish the most demanding tasks with high precision at an affordable price. Its innovative, compact design handles payloads of up to 3 kg from a conveniently small form factor.

Designed for ease of use, Epson RC+® development software works seamlessly with the LA6A to create powerful automation solutions and offers integrated options to simplify the most complex applications. Fully integrated, optional solutions—including vision guidance and part feeding—accelerate the development of workcell applications, helping to save valuable time and money. The Epson RC+ Solutions Platform allows for seamless expansion of third-party solutions, benefiting both developers and end users.

- **Cost-effective industrial automation**— designed to accomplish the most demanding assembly needs where budget and performance are critical
- **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 max-rated 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: easily accessible encoder battery, Epson RC+ software and safety features
- **Accelerate the development of workcell applications**— fully integrated, optional solutions include vision guidance and part feeding; Epson RC+ Solutions Platform allows for seamless expansion of third-party solutions, benefiting developers and end users
- **Minimize the workcell space requirement with an optimized robot footprint**— 500 mm, 600 mm or 700 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:

- LA6A robot and RC800L 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)

Specifications

Core Specifications:

Arm Length / Reach:
Joint #1 + Joint #2:
- LA6A502x: 500 mm
- LA6A602x: 600 mm
- LA6A702x: 700 mm

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

Payload (Kg):
Rated: 2.0 kg
Max: 6.0 kg

Cycle Time:
- LA6A502x: 0.396 sec
- LA6A602x: 0.404 sec
- LA6A702x: 0.428 sec

Motion Range:
- Joint #1: ±132 deg
- Joint #2: ±150 deg
- Joint #3: 200 mm (390 mm Clean)
- Joint #4: ±360 deg

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

Other Specifications:

Power Consumption:
0.9 kVa

Installation Environment:
Standard

Controller:
RC800L

Weight:
- LA6A502x: 16 kg
- LA6A602x: 16 kg
- LA6A702x: 17 kg

Robot Cables:
3 m/5 m/10 m

Power:
AC 200 V – 240 V single phase

Options:

Robot Options:

- Vision Guide
- IntelliFlex™ Feeders
- Teach Pendant

Software Options:

- Epson RC+ API 8.0
- GUI Builder 8.0
- Fieldbus Master
- Fieldbus Slave (EtherNet/IPTM, EtherCAT®, PROFINET, PROFIBUS, CC-Link®)
- External Control Point (ECP) 8.0

Robotics Facets:

Type, Robotics Facets:
SCARA Robots

Robot Series:
SCARA LA-Series

Payload (Max.):
6

Arm Length / Reach:
500

Cycle Time:
0.39

Installation Environment:
Cleanroom
Standard
Tabletop Mount

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