

# Epson LA3A SCARA Robot



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

**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** — 400 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                           |                     | LA3A SCARA Robot                                                                                                                                                                                     |
|--------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                         |                     | LA3A410x                                                                                                                                                                                             |
| Mounting Type                        |                     | Tabletop                                                                                                                                                                                             |
| Arm Length                           | Joint #1 + Joint #2 | 400 mm                                                                                                                                                                                               |
| Repeatability                        | Joints #1, #2       | ±0.01 mm                                                                                                                                                                                             |
|                                      | Joint #3            | ±0.01 mm                                                                                                                                                                                             |
|                                      | Joint #4            | ±0.01 deg                                                                                                                                                                                            |
| Payload                              | Rated               | 1.0 kg                                                                                                                                                                                               |
|                                      | Max.                | 3.0 kg                                                                                                                                                                                               |
| Standard Cycle Time¹                 |                     | 0.404 sec                                                                                                                                                                                            |
| Max. Motion Range                    | Joint #1            | ±132 deg                                                                                                                                                                                             |
|                                      | Joint #2            | ±141 deg                                                                                                                                                                                             |
|                                      | Joint #3            | 150 mm                                                                                                                                                                                               |
|                                      | Joint #4            | ±360 deg                                                                                                                                                                                             |
| Joint #4 Allowable Moment of Inertia | Rated               | 0.005 kg-m²                                                                                                                                                                                          |
|                                      | Max.                | 0.05 kg-m²                                                                                                                                                                                           |
| User Electric Lines                  |                     | None                                                                                                                                                                                                 |
| User Pneumatic Lines                 |                     | None                                                                                                                                                                                                 |
| Power                                |                     | AC 200 V – 240 V single phase                                                                                                                                                                        |
| Power Consumption                    |                     | 0.8 kVa                                                                                                                                                                                              |
| Power Cable Length                   |                     | 3 m/5 m/10 m                                                                                                                                                                                         |
| Weight (Cables Not Included)         |                     | 12 kg                                                                                                                                                                                                |
| Applicable Controller                |                     | RC800L                                                                                                                                                                                               |
| Installation Environment             |                     | Standard                                                                                                                                                                                             |
| What's Included                      |                     | LA3A 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) |
| Options                              |                     |                                                                                                                                                                                                      |
|                                      |                     | Vision Guide                                                                                                                                                                                         |
|                                      |                     | Available                                                                                                                                                                                            |
|                                      |                     | IntelliFlex™ Feeders                                                                                                                                                                                 |
|                                      |                     | 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                                                                                                                                                                                            |

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¹ Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with rated 2 kg payload (path coordinates optimized for maximum speed).

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