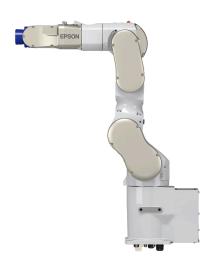


## **Epson C8LC** 6-Axis Robot



## Innovative features. Remarkable flexibility.

**Ultra high performance and flexibility** — high throughput with max-rated payloads and multiple arm configurations to accomplish the most demanding assembly needs

Minimize the workcell space requirement with SlimLine design — compact wrist pitch enables access to hard-to-reach areas in confined spaces; tabletop, wall and ceiling mounting options and 900 mm reach available

**Fast cycle times** — high acceleration, smooth motion and fast settling times help maximize throughput with proprietary GYROPLUS $^{\text{\tiny{M}}}$  vibration reduction system, plus no ringing or overshoot $^{1}$ 

**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: 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, force guidance, 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

**Built for demanding environments** — Standard, Cleanroom (ISO 3) $^2$  and ESD, and Protected IP67 models 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                       |  | C8LC 6-Axis Robot  |                                    |                      |
|----------------------------------|--|--|------------------------------------|----------------------|
| Mounting Type                    |  | Tabletop, Ceiling, Wall  |                                    |                      |
| Arm Length                       | P Point: Joints #1 - #5 Center         | 901 mm   |                                    |                      |
|                                  | P Point: Joints #1 - #6 Flange Surface | 981 mm   |                                    |                      |
| Repeatability                    | Joints #1 - #6                         | ±0.03 mm   |                                    |                      |
| Payload                          | Rated                                  | 3 kg   |                                    |                      |
| Fayload                          | Max.                                   | 8 kg   |                                    |                      |
| Standard Cycle Time <sup>3</sup> |  | 0.336 sec  |                                    |                      |
| Max. Motion Range                | Joint #1                               | ±240 deg   |                                    |                      |
|                                  | Joint #2                               | -158 deg ~ +65 deg   |                                    |                      |
|                                  | Joint #3                               | -61 deg ~ +202 deg   |                                    |                      |
|                                  | Joint #4                               | ±200 deg   |                                    |                      |
|                                  | Joint #5                               | ±135 deg   |                                    |                      |
|                                  | Joint #6                               | ±540 deg   |                                    |                      |
| Allowable Moment of Inertia      | Joint #4                               | 0.47 kg·m²   |                                    |                      |
|                                  | Joint #5                               | 0.47 kg·m²   |                                    |                      |
|                                  | Joint #6                               | 0.15 kg·m²   |                                    |                      |
| User Electric Lines              |  | 15-Pin (D-Sub), 8-Pin (RJ45 Cat5e), 6-Pin (Force Sensor)   |                                    |                      |
| User Pneumatic Lines             |  | ø6 mm x 2  |                                    |                      |
| Brakes                           |  | All Axes   |                                    |                      |
| Power                            |  | AC 200 V – 240 V (single phase)  |                                    |                      |
| Power Consumption                |  | 2.5 KVA  |                                    |                      |
| Power Cable Length               |  | 3 m/5 m/10 m   |                                    |                      |
| Weight (Cables Not Included)     |  | 53 kg (IP:57 kg)   |                                    |                      |
| Applicable Controller            |  | RC800A   |                                    |                      |
| Installation Environment         |  | Standard/Cleanroom (ISO 3) <sup>2</sup> and ESD/Protected IP67   |                                    |                      |
| Safety Standards                 |  | TUV-certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849  |                                    |                      |
| What's Included                  |  | C8LC robot and RC800A controller with safety board. Robot power and signal cables.  Connector set (I/O, hand I/O and safety circuit connectors). |                                    |                      |
| Options                          |  | Connect  | or set (1/0, riand 1/0 and safety) | circuit connectors). |
| - Priorie                        |  | Vision Guide   | Available                          |                      |
|                                  |  | IntelliFlex™ Feeders   | Available                          |                      |
|                                  |  | Force Guide  | Available                          |                      |
|                                  |  | Conveyor Tracking  | Available                          |                      |
|                                  |  | Epson RC+ API 8.0  | R19NZ901JK                         |                      |
|                                  |  | GUI Builder 8.0  | R19NZ901JQ                         |                      |
|                                  |  | Fieldbus Master  | Available                          |                      |
|                                  |  | Fieldbus Slave (Ethernet/IP, EtherCAT®, PROFINET, PROFIBUS, CC-Link, DeviceNet®)   | Available                          |                      |
|                                  |  | External Control Point (ECP) 8.0   | R19NZ901JL                         |                      |
|                                  |  | Teach Pendant  | Available                          |                      |
|                                  |  | Epson OPC UA for Robotics  | R19NZ901JZ                         |                      |
|                                  |  | Epson or 6 oa ioi nobolics   | U LAINTAO LOT                      |                      |

Support

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| 1 When operated within specifications.   2 Complies with ISO Class 3 (ISO 14644-1) cleanroom standards.   3 Cycle time based |
|--|
| on round-trip arch motion (300 mm horizontal, 25 mm vertical) at rated payload setting of tabletop model boost mode (path    |
| coordinates ontimized for maximum speed)   |

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