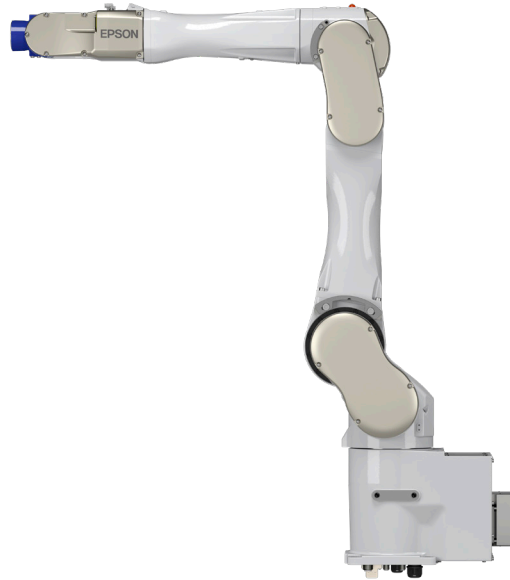


# Epson C8XLC 6-Axis Robot



## 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 1,400 mm reach available

**Fast cycle times** — high acceleration, smooth motion and fast settling times help maximize throughput with proprietary GYROPLUS™ vibration reduction system, plus no ringing or overshoot<sup>1</sup>

**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 4)<sup>2</sup> 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                       |  | C8XLC 6-Axis Robot  |            |  |
|----------------------------------|--|---|------------|--|
| Mounting Type                    |  | Tabletop, Ceiling, Wall   |            |  |
| Arm Length                       | P Point: Joints #1 - #5 Center         | 1,400 mm  |            |  |
|                                  | P Point: Joints #1 - #6 Flange Surface | 1,480 mm  |            |  |
| Repeatability                    | Joints #1 - #6                         | ±0.05 mm  |            |  |
| Payload                          | Rated                                  | 3 kg  |            |  |
|                                  | Max.                                   | 8 kg  |            |  |
| Standard Cycle Time <sup>3</sup> |  | 0.512 sec   |            |  |
| Max. Motion Range                | Joint #1                               | ±240 deg  |            |  |
|                                  | Joint #2                               | -135 deg ~ +55 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·m <sup>2</sup>  |            |  |
|                                  | Joint #5                               | 0.47 kg·m <sup>2</sup>  |            |  |
|                                  | Joint #6                               | 0.15 kg·m <sup>2</sup>  |            |  |
| 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)     |  | 63 kg (IP:66 kg)  |            |  |
| Applicable Controller            |  | RC800A  |            |  |
| Installation Environment         |  | Standard/Cleanroom (ISO 4) <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                  |  | C8XLC robot and RC800A controller with safety board. Robot power and signal cables.<br>Connector set (I/O, hand I/O and safety circuit connectors). |            |  |
| Options                          |  |   |            |  |
|                                  |  | 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 |  |

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1 When operated within specifications. | 2 Complies with ISO Class 4 (ISO14644-1) 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 optimized for maximum speed).

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