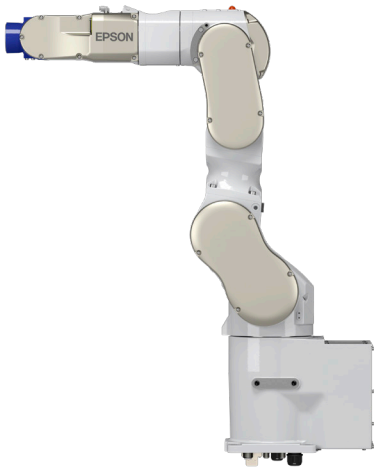
Epson C8LC 6-Axis Robot



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™ 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

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Epson C8LC 6-Axis Robot

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
	Max.	8 kg
Standard Cycle Time[3]		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)[2] 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		
	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 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 optimized for maximum speed).