EPSON®

C8LB/C8XLB
6-Axis Robot

**Innovative Features.
Remarkable Flexibility.**

Ultra high performance and flexibility — high throughput with heavy payloads and multiple arm configurations to accomplish many of the most demanding tasks with leading-edge precision

SlimLine design — compact wrist pitch enables access to hard-to-reach areas in confined spaces; tabletop, wall and ceiling mounting options and 900 and 1,400 mm reaches 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

Low total cost of ownership — includes battery-less encoders and Epson RC+ software with no recurring license fee; rich suite of safety features included with RC700E controller; robots are TUV-certified to meet ISO 10218-1 and UL1740 safety standards

SafeSense™ technology — standard and advanced safety features allow for increased productivity and worker protection while potentially minimizing machine footprint due to the reduction of physical barriers with a proper risk assessment

Industrial collaborative workcell tools — combine SafeSense technology and no-code Epson RC+ Express software to easily develop industrial collaborative solutions with remarkable speed and repeatability

Built for demanding environments — Standard, Cleanroom (ISO 3/4[2])/ESD and Protected IP67 models available

Advanced integrated options — Vision Guidance, Parts Feeding, Force Guidance, Conveyor Tracking and Fieldbus

Industry 4.0 ready — advanced OPC UA for robotics connectivity provides next-level integration and monitoring

Model Name		C8LB 6-Axis Robot	C8XLB 6-Axis Robot
Mounting Type		Tabletop, Ceiling, Wall	
Arm Length	P Point: Joints #1 - 5 Center	901 mm	1,400 mm
	P Point: Joints #1 - 6 Flange Surface	981 mm	1,480 mm
Repeatability	Joints #1 - 6	± 0.03 mm	± 0.05 mm
Payload	Rated	3 kg	
	Max.	8 kg	
Standard Cycle Time³		0.35 sec	0.52 sec
Max. Motion Range	Joint #1	± 240 deg	
	Joint #2	-158 deg ~ +65 deg	-135 deg ~ +55 deg
	Joint #3	-61 deg ~ +202 deg	
	Joint #4	± 200 deg	
	Joint #5	± 135 deg	
	Joint #6	± 360 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)	63 kg (IP: 66 kg)
Applicable Controller		RC700E	
Installation Environment		Standard/Cleanroom (ISO 3²) ESD/Protected (IP67)	Standard/Cleanroom (ISO 4²) ESD/Protected (IP67)
Safety Standards		TUV-certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849	
What's Included		C8LB robot and RC700E controller with safety board. Robot power and signal cables. Connector set (I/O, hand I/O and safety circuit connectors).	C8XLB robot and RC700E controller with safety board. Robot power and signal cables. Connector set (I/O, hand I/O and safety circuit connectors).

Options	
Vision Guide CV2	Available
IntelliFlex™ Feeders	Available
Force Guidance	Available
Conveyor Tracking	R12NZ900AA
Epson RC+ 7.0 API	R12NZ920AE
GUI Builder 7.0	R12NZ920AH
Add-On Instructions	Available
Fieldbus Master	Available
Fieldbus Slave (EtherNet/IP, EtherCat®, PROFINET, PROFIBUS, CC-Link, DeviceNet®)	Available
External Control Point (ECP) Option	R12NZ920AF
Teach Pendant	Available
Epson OPC UA for Robots	R19NZ901CE
Vision Guide Camera Mount	R12NZ9003F
Tool Mounting Plate	R12NZ900LQ

Support

1 When operated within specifications. | **2** C8LB series complies with ISO Class 3 (ISO 14644-1) cleanroom standards. C8LXB series complies with ISO Class 4 (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).

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Contact: