EPSON®

C4B/C4LB
6-Axis Robot

Innovative Features.
Remarkable Flexibility.

Ultra high performance and flexibility — high throughput with max-rated 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 and ceiling mounting options and 600 and 900 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 and Cleanroom (ISO 3[2])/ESD 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

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Product specifications subject to change
without notice up until first product shipment.

C4B/C4LB 6-Axis Robot

Model Name		C4B 6-Axis Robot	C4LB 6-Axis Robot
Mounting Type		Tabletop, Ceiling	
Arm Length	P Point: Joints #1 - 5 Center	600 mm	900 mm
	P Point: Joints #1 - 6 Flange Surface	665 mm	965 mm
Repeatability	Joints #1 - 6	± 0.02 mm	± 0.03 mm
Payload	Rated	1 kg	
	Max.	4 kg	
Standard Cycle Time[3]		0.36 sec	
Max. Motion Range	Joint #1	± 170 deg	
	Joint #2	-160 deg ~ +65 deg	
	Joint #3	-51 deg ~ +225 deg	
	Joint #4	± 200 deg	
	Joint #5	± 135 deg	
	Joint #6	± 360 deg	
Allowable Moment of Inertia	Joint #4	0.15 kg·m^2	
	Joint #5	0.15 kg·m^2	
	Joint #6	0.10 kg·m^2	
User Electric Lines		9-Pin (D-Sub)	
User Pneumatic Lines		ø4 mm x 4	
Brakes		All Axes	
Power		AC 200 V - 240 V Single Phase	
Power Consumption		1.7 kVA	
Power Cable Length		3 m/5 m/10 m	
Weight (Cables Not Included)		27 kg	30 kg
Applicable Controller		RC700E	
Installation Environment		Standard/Cleanroom (ISO 3[2]) ESD	
Safety Standards		TUV-certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849	
What's Included		C4B robot and RC700E controller with safety board. Robot power and signal cables. Connector set (I/O, hand I/O and safety circuit connectors).	C4LB 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

Support

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).

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Contact: