

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 overshoot¹

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 3rd)/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



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 rd) 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 GV2	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		



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