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EPSON®

SPECIFICATION SHEET

Epson CX7LA 6-Axis Robot



Innovative features. Remarkable flexibility.

High performance, flexibility and value — high throughput with max-rated payloads and multiple arm configurations to accomplish the most demanding assembly needs—all at an affordable price

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 optional 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, optional internal wiring, Epson RC+ software and a rich suite of safety features

Accelerate the development of workcell applications — fully integrated, optional solutions include vision guidance, part 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 CX7LA 6-Axis Robot

Model Name		CX7LA 6-Axis Robot	
Model Number		**RCX7-A901_Y**	**RCX7-A901_N**
Mounting Type		Tabletop, Ceiling, Wall	
Arm Length	**P Point: Joints #1 - #5 Center**	901.0 mm	
	P Point: Joints #1 - #6 Flange Surface	982.5 mm	
Repeatability	**Joints #1 - #6**	±0.02 mm	
Payload	**Rated**	3 kg	
	Max.	7 kg	
Max. Motion Range	**Joint #1**	±180 deg	
	Joint #2	-155 deg ~ +67 deg	
	Joint #3	-63 deg ~ +193 deg	
	Joint #4	±270 deg	
	Joint #5	±135 deg	
	Joint #6	±540 deg	
Allowable Moment of Inertia	**Joint #4**	0.49 kg·m²	
	Joint #5	0.49 kg·m²	
	Joint #6	0.15 kg·m²	
User Electric Lines		9-Pin (D-Sub), 8-Pin (RJ45)	N/A
User Pneumatic Lines		ø4 mm x 4	N/A
Power		AC 200 V - 240 V (single phase)	
Power Consumption		2.0 kVA	
Power Cable Length		3 m/5 m/10 m	
Weight (Cables Not Included)		35 kg (IP:36 kg)	33 kg (IP:35 kg)
Applicable Controller		RC800A	
Installation Environment		Standard/Cleanroom (ISO 3)[2] ESD/Protected IP67	
Safety Standards		TUV-certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849	
What's Included		CX7LA 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
	Epson 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.

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