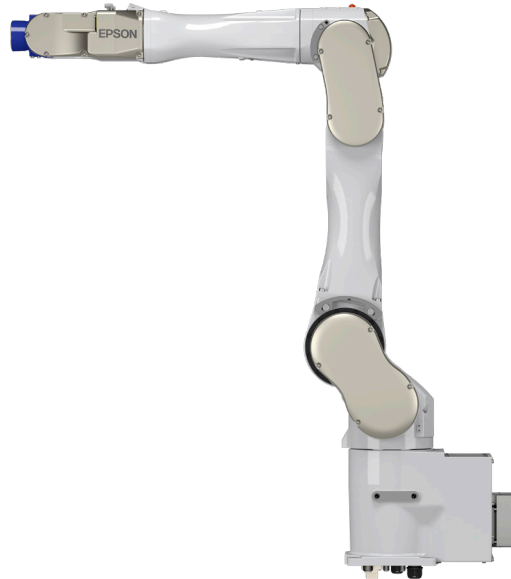


Epson C12XLC 6-Axis Robot



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 mounting and 1,400 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 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

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 4)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

Model Name		C12XLC 6-Axis Robot	
Mounting Type		Tabletop	
Arm Length	P Point: Joints #1 - #5 Center	1,400 mm	
	P Point: Joints #1 - #6 Flange Surface	1,480 mm	
Repeatability	Joints #1 - #6	±0.05 mm	
Payload	Rated	3 kg	
	Max.	12 kg	
Standard Cycle Time ³		0.484 sec	
Max. Motion Range	Joint #1	±240 deg	
	Joint #2	-135 deg ~ +55 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	0.7 kg·m ²	
	Joint #5	0.7 kg·m ²	
	Joint #6	0.2 kg·m ²	
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)		63 kg (IP:67 kg)	
Applicable Controller		RC800A	
Installation Environment		Standard/Cleanroom (ISO 4) ² and ESD/Protected IP67	
Safety Standards		TUV-certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849	
What's Included		C12XLC 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

Support

Customer Service
(562) 290-5920
service@robots.epson.com

Applications Support
(562) 290-5930
applications@robots.epson.com

Sales Inquiries
(562) 290-5997
info@robots.epson.com

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).

See the latest innovations from Epson Business Solutions at epson.com/forbusiness

EPSON America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

EPSON Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3

epson.com
epson.ca

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Contact: