C12XLB
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 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 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 4[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

Model Name		C12XLB 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]		0.50 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	± 360 deg
Allowable Moment of Inertia	Joint #4	0.70 kg·m^2
	Joint #5	0.70 kg·m^2
	Joint #6	0.20 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
Applicable Controller		RC700E
Installation Environment		Standard/Cleanroom (ISO 4[2]) ESD
Safety Standards		TUV-certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849
What's Included		C12XLB 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

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

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

www.epson.com
www.epson.ca

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Contact: