EPSON
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SPECIFICATION SHEET

Robots

6-Axis

C12XL 6-Axis Robot



The compact, long reach, 6-Axis robot for payloads up to 12 kg.

Easy to use — intuitive Epson RC+® development software makes it simple to create high-performance solutions

Powerful servo system design — proprietary Epson gyro sensors allow for low residual vibration; minimizes overshoot with smooth end-of-arm motion

Outstanding acceleration/deceleration rates — smooth start/stop motion to optimize cycle times

High-speed cycle times — advanced motion control and gyro servo feedback; maximizes parts throughput

SlimLine design — compact wrist pitch enables access to hard-to-reach areas in confined spaces

Powerful arm design — 1,400 mm reach, up to 12 kg payload

ISO 4 Clean/ESD models available — for critical dust-free applications such as electronics and medical device assembly

Optimized cable management — internal cable design; minimizes wear and tear for prolonged durability; configurable cable exit through rear or bottom of base

Integrated vision option — designed specifically for robot guidance; makes it easy to automate simple applications when vision is required

Versatile solutions — ideal for packaging, load/unload, material handling and more

C12XL 6-Axis Robot

Specifications

Model Number		C12XL 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[1]		0.50 sec (1 kg payload)
Max. Motion Range	Joint #1	± 240 deg
	Joint #2	- 135 deg ~ +55 deg
	Joint #3	- 61 sec ~ +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 Cat 5e)
User Pneumatic Lines		ø6 mm x2
Brakes		All Axes
Power		AC 200 - 240 V
Power Consumption		2.5 kVa
Power Cable Length		3 m/5 m/10 m
Weight (cables not included)		63 kg: 138.6 lb
Applicable Controller		RC700-A
Installation Environment		Standard or Cleanroom (ISO 4) ESD
Safety Standards		CE Marking, EMC Directive, Machinery Directive ANSI/RIA R15.06-2012 NFPA79 (2007 Edition)
What's in the Box		C12XL robot and RC700-A controller Robot power and signal cables Epson® RC+ software C12XL Robot System Safety & Installation Manual Connector set (I/O, hand I/O and safety circuit connectors)

Options			
Vision Guide CV2	Available	Conveyor Tracking	R12NZ900AA
Vision Guide PV1	Available	External Control Point (ECP) Option	R12NZ920AF
Vision Guide Camera Mount	R12B031922	Epson RC+ 7.0 API	R12NZ920AE
IntelliFlex™ Feeders	Available	Ethernet/IP Fieldbus I/O (Master)	R12NZ900NZ
TP3 – Teach Pendant	R12NZ900N3	Ethernet/IP Fieldbus I/O (Slave)	R12NZ900A7
TP2 – Teach Pendant	R12NZ900L9	DeviceNet Fieldbus I/O (Master)	R12NZ900NX
Tool Mounting Plate	R12NZ900LQ	DeviceNet Fieldbus I/O (Slave)	R12NZ9004F
GUI Builder 7.0	R12NZ920AH	EtherCAT Fieldbus I/O (Slave)	R12NZ900CL
Euromap 67	R12NZ90104	PROFINET Fieldbus I/O (Slave)	R12NZ900A6

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1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 1 kg payload (path coordinates optimized for maximum speed). | **2** SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.

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