

LS20-B SCARA Robot



High performance and long reach for high-payload applications.

Powerful performance with minimal overshoot — powered by Epson's proprietary Residual Vibration Technology

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

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

High-speed cycle times — maximize parts throughput

Ideal for heavy payloads and high inertia applications — 800 and 1,000 mm reaches available, payload up to 20 kg, max. inertia up to 1.0 kg*m²

Integrated options — vision, designed specifically for robot guidance; plus, parts feeding, fieldbus interface solutions, RC+ 7.0 API software for open-platform functionality, teach pendants and customizable GUIs

ISO 4 Clean models available — for critical dust-free applications

Easy setup — built-in camera cable for optional vision system; top-of-arm electrical and pneumatic layout with screw holes to mount additional equipment

No battery required for encoder — minimizes downtime and eliminates the cost for battery replacement and installation

Specifications

Model Number		LS20-B804x	LS20-BA04x
Mounting Type		Tabletop	
Arm Length	Joint #1 plus Joint #2	800 mm	1,000 mm
Repeatability	Joints #1 - 2	± 0.025 mm	
	Joint #3	± 0.01 mm	
	Joint #4	± 0.01 deg	
Payload	Rated	10 kg	
	Max.	20 kg	
Standard Cycle Time ¹		0.39 sec	0.43 sec
Max. Motion Range	Joint #1	± 132 deg	
	Joint #2	± 152 deg	
	Joint #3 Standard	420 mm	
	Joint #3 Clean	390 mm	
	Joint #4	± 360 deg	
Allowable Moment of Inertia	Rated	0.05 kg-m ²	
	Max.	1.0 kg-m ²	
User Electric Lines		15 pin (D-sub), 9 pin (D-sub), 8 pin (RJ45 Cat 5e)	
User Pneumatic Lines		ø8 mm x2, ø6 mm x2	
Brakes		Joint #3, Joint #4	
Power		AC 200 - 240 V Single Phase	
Power Consumption		2.4 kVa	
Power Cable Length		3 m/5 m/10 m	
Weight (cables not included)		48 kg: 105.8 lb	51 kg: 112.4 lb
Applicable Controller		RC90-B	
Installation Environment		Standard or Cleanroom (ISO 4)	
Safety Standards		CE Marking, EMC Directive, Machinery Directive KC Mark, KCs Mark ANSI/RIA R15.06-2012 NFPA79 (2007 Edition)	
What's in the Box		LS20-B robot and RC90-B controller Robot power and signal cables Epson® RC+ software E-Stop unit with cable LS20-B Robot System Safety & Installation Manual Connector set (I/O, hand I/O and safety circuit connectors)	
Options			
Vision Guide CV2	Available	External Control Point (ECP) Option	R12NZ920AF
Vision Guide PV1	Available	TP1 – Teach Pendant	R12NZ900L7
IntelliFlex™	Available	TP2 – Teach Pendant	R12NZ9005P
LS20-B Camera Mounting Bracket	R12NZ9003A	Ethernet/IP Fieldbus I/O (Slave)	R12NZ900A7
OCR (for use with Vision Guide)	R12NZ920H3	DeviceNet Fieldbus I/O (Slave)	R12NZ9004F
Epson RC+ 7.0 API	R12NZ920AE	EtherCAT Fieldbus I/O (Slave)	R12NZ900CL
GUI Builder 7.0	R12NZ920AH	Profibus Fieldbus I/O (Slave)	R12NZ9004H
Conveyor Tracking Kit	R12NZ900AA	PROFINET Fieldbus I/O (Slave)	R12NZ900A6
Euromap 67 Interface	R12NZ90104	CC Link Fieldbus I/O (Slave)	R12NZ9004J
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¹ Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 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. See the latest innovations from Epson Business Solutions at www.epson.com/forbusiness

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