

ROBOT SPECIFICATIONS 2023 CATALOG



Why Epson[®] Robots?

As precision automation specialists, the Epson Robots team has been building automation products for nearly four decades. An industry leader in small-parts-assembly applications, we've introduced many firsts. As a result, our innovative products are hard at work in thousands of manufacturing facilities throughout the world.

1

Leading Epson technology

- > Epson is the #1 SCARA robot manufacturer in the world
- We introduced the world's first folding-arm 6-Axis robot
- Specialized integrated motion sensors help reduce vibration and increase performance

2 What you need, when you need it

- The Epson lineup features 6-Axis and SCARA robots with payloads up to 20 kg and a reach ranging from 175 mm to 1,480 mm
- We offer a wide range of fully integrated options including vision guidance, conveyor tracking, flexible parts feeding, force guidance and more

3

Intuitive programming software

- > Epson RC+® software is extremely user-friendly, making automation setup fast and easy
- > It includes time-saving features such as wizards, templates, smart tools and more

4

Reliability you can count on

- Dedicated to helping you find the best solution for your automation needs
- Epson robots are long-lasting and require little maintenance
- Over 150,000 robots sold worldwide











	INDUSTRY FIRST	INDUSTRY FIRST	INDUSTRY FIRST	INDUSTRY FIRST		INDUSTRY FIRST	INDUSTRY FIRST			
1982	1986	1994	1997	2001	2009	2009	2016	2017	2019	2022
Epson SCARA robots introduced	ISO Class 1 cleanroom robots	Microsoft® Windows® OS support	Compact (under 500 mm reach) SCARA robot introduced PC-based robot controller	Wall/ceiling- mount SCARA robots	Compact, high-speed C3 6-Axis robot	Ceiling-mount RS3 SCARA robot with 360° rotation introduced	N2 6-Axis robot with folding-arm design introduced	Ultra low-cost T3 All-in-One SCARA robot with built-in controller introduced	Ultra low-cost VT6L All-in-One 6-Axis robot with built-in controller introduced	GX-Series high- power-density SCARA robots introduced



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Meet Epson's Lineup of Award-Winning SCARA and 6-Axis Robots

TB-Series

Automate your factory without wasting time or money on complex slide-based solutions. These innovative All-in-One robots are available at an ultra low cost and offer fast, easy integration, taking less time to install than most automation solutions. With reach distances of 400 mm and 600 mm, they can handle payloads of 3 kg and 6 kg.

LSB-Series

The perfect solution for factories looking for maximum value without sacrificing performance, the LSB-Series offers fast, compact performers at a low cost. With reach distances ranging from 400 mm to 1,000 mm, and payloads from 3 kg to 20 kg, they feature cycle times starting at 0.38 sec.



RS-Series

These zero-footprint robots are some of the most unique and flexible SCARA robots available on the market today. With reach distances of 350 mm and 550 mm, and payloads of 3 kg and 4 kg, they offer cycle times starting at 0.34 sec.

VT-Series

Offering next-level technology at an incredible price, VT-Series All-in-One 6-Axis robots ensure easy setup with a built-in controller. With a reach of 900 mm and payloads up to 6 kg, these robots are ideal for simple applications such as machine load/unload, packaging, assembly and more.

C4-Series

C4-Series robots offer excellent performance for the most demanding and complex tasks. Compact yet powerful, they deliver high repeatability and fast cycle times with reach distances ranging from 600 mm to 900 mm and payloads up to 4 kg.

G-/GX-Series

With more than 300 models available, highperformance G- and GX-Series robots are ideal for applications where fast cycle times and high precision are required. The Epson lineup offers reach distances ranging from 175 mm to 1,000 mm and payloads from 1 kg to 20 kg, plus cycle times starting at 0.28 sec.

N-Series

Setting a new standard for 6-Axis robots, the N-Series includes a revolutionary folding-arm design for maximum motion efficiency. N-Series robots offer reach distances of 450 mm to 1,000 mm and payloads of 2.5 kg and 6 kg.

C8-/C12-Series

C8- and C12-Series robots are ideal for demanding applications requiring 6-Axis dexterity. With both long reach and heavy payloads, they provide remarkable flexibility. In fact, these compact robots offer reach distances ranging from 700 mm to 1,400 mm and payloads up to 12 kg.

Industry Solutions

Epson Robots is a leading supplier to a wide variety of manufacturing industries including automotive, medical, electronics, consumer products, industrial and many more. Our customers range from large Fortune 100 companies to small manufacturing facilities.

- Automotive: Brakes, clutch components, ignition systems, instrument panels, headlights, mirrors, locks, sensors and more
- Life sciences: Contact lenses, glasses, dental instruments, dental implants, hearing aids, pacemakers, blood test systems and much more
- Electronics: Chip handling and placement, encoder assembly, board and laser diode testing, wire bonding and more
- Sonsumer products: Smartphones, tablets, speakers, jewelry, watches, cosmetics, printers and more



Global High-Quality Support, When and Where It's Needed



At Epson, our reputation is built on the high quality of our products and services, and maintaining that quality is a worldwide priority. Our support network for robotic products includes nine regional centers, and we stand ready to meet the needs of customers in virtually every major market.

Applications

Epson robots are extremely versatile and provide a wide range of automation possibilities:

- Assembly
- Pick and place
- Material handling
- Packaging
- Kitting/Tray loading

- Machine tending
- Screw driving
- Dispensing
- Palletizing
- Lab automation

- Inspection and testing
- Finishing
- Grinding

Why Epson SCARA Robots?



Epson's lineup of over 300 models gives users the power to choose the right robot for their application. It's just part of what makes us the #1 SCARA robot manufacturer in the world.

Hundreds of models available

- Sizes ranging from 175 mm to 1,000 mm in reach
- Payloads up to 20 kg
- > Tabletop, wall- and ceiling-mount options

Fast speeds

Extraordinary cycle times to maximize parts per hour

Extreme precision

Repeatability down to 5 microns

SCARA



TB-Series All-in-One

TB-Series All-in-One SCARA robots are the perfect alternative to complex slide-based solutions. These spacesaving robots install in minutes. And, they include the same intuitive software and powerful features found in Epson's high-end robots.



LSB-Series

LSB-Series SCARA robots offer the high performance and great reliability that users have come to expect from Epson, but at a lower cost. LSB-Series SCARAs were created for factories looking for maximum value without giving up performance.



RS-Series

RS-Series robots are some of the most unique and flexible SCARA robots available on the market today. With the ability to cross back under and reach behind themselves, RS-Series robots are able to utilize the entire workspace underneath the arm. As a result, there is no lost space in the center of the work envelope.



G/GX-Series

G- and GX-Series SCARA robots feature a high-rigidity arm design that delivers high speed, high precision and low vibration. G- and GX-Series SCARA robots offer a wide variety of sizes from 175 mm to 1,000 mm in reach, with up to 20 kg payloads.



Epson is the #1 SCARA robot manufacturer in the world.



TB-Series All-in-One

Value without compromise

An innovative alternative to complex, slide-based systems, T3-B and T6-B All-in-One SCARA robots feature a built-in controller, power for end-of-arm tooling and 110 V or 220 V power.

TB-SERIES SCARA ROBOTS



Higher payload and longer reach at an incredible value



All-in-One design is the ultimate slide alternative



TB-SERIES ALL-IN-ONE SPECIFICATIONS

		Т3-В	Т6-В	
Arm length	Arm #1 + #2	400 mm	600 mm	
Repeatability	Joints #1, #2	±0.020 mm	±0.040 mm	
Poyload	Rated	1 kg	2 kg	
Fayloau	Maximum	3 kg	6 kg	
Standard cycle time ¹		0.52 sec	0.46 sec	
Installation environment		Standard		
Available controllers		Built-in		

1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical).

TB-SERIES ALL-IN-ONE SCARA ROBOTS



SPECIFICATIONS

		T3-B-401			
Mounting type		Tabletop			
Arm length	Arm #1 + #2	400 mm			
Weight (cables not included)		16 kg			
Repeatability	Joints #1, #2	±0.020 mm			
	Joint #3	±0.020 mm			
	Joint #4	±0.020 deg			
Max. motion range	Joint #1	±132 deg			
	Joint #2	±141 deg			
	Joint #3	150 mm			
	Joint #4	±360 deg			
Payload	Rated	1 kg			
	Maximum	3 kg			
Standard cycle time ¹		0.52 sec			
Joint #4 allowable	Rated	0.003 kg∙m²			
moment of inertia ²	Maximum	0.010 kg•m²			
Joint #3 downward force		83 N			
Electric lines		Hand I/O: IN6/OUT4 (D-Sub 15-Pin)/User I/O: IN18/OUT12			
Pneumatic lines		$\Phi 6 \text{ mm} \times 2$, $\Phi 4 \text{ mm} \times 1$			
Installation environment		Standard			
Available controllers		Built-in			
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)			

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.



Click Here for CAD Drawings

The ultimate slide alternative – with longer reach and higher payload

- Arm length of 600 mm
- Easy to install
- Built-in controller
- Comes standard with 110 V and 220 V power
- No battery required for encoder

SPECIFICATIONS

		T6-B-602		
Mounting type		Tabletop		
Arm length	Arm #1 + #2	600 mm		
Weight (cables not included)		22 kg		
Repeatability	Joints #1, #2	±0.040 mm		
	Joint #3	±0.020 mm		
	Joint #4	±0.020 deg		
Max. motion range	Joint #1	±132 deg		
	Joint #2	±150 deg		
	Joint #3	200 mm		
	Joint #4	±360 deg		
Payload	Rated	2 kg		
	Maximum	6 kg		
Standard cycle time ¹		0.46 sec		
Joint #4 allowable	Rated	0.010 kg∙m²		
moment of inertia ²	Maximum	0.080 kg•m²		
Joint #3 downward force		83 N		
Electric lines		Hand I/O: IN6/OUT4 (D-Sub 15-Pin)/User I/O: IN18/OUT12		
Pneumatic lines		Φ6 mm × 2, Φ4 mm × 1		
Installation environment		Standard		
Available controllers		Built-in		
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)		

EPSON

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.

SCARA Robots

LSB-Series

EPSON

These fast, compact, low-cost solutions are ideal for factories looking for maximum value without sacrificing performance. With payloads ranging from 3 kg to 20 kg and cycle times starting at 0.38 seconds, LSB-Series SCARA robots offer a variety of opportunities for manufacturers searching for a reduced-cost, high-performance automation solution with great reliability.

SCARA ROBOTS





Fast, compact and low cost





at an affordable price





Powerful performance and a large payload at an affordable value



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Remarkable value with long reach, high performance and heavy payload

LSB-SERIES SPECIFICATIONS

		LS3-B	LS6-B	LS10-B	LS20-B
Arm length	Arm #1 + #2	400 mm	500/600/700 mm	600/700/800 mm	800/1,000 mm
Repeatability	Joints #1, #2	±0.010 mm	±0.020 mm	±0.020/±0.020/ ±0.025 mm	±0.025 mm
Payload	Rated	1 kg	2 kg	5 kg	10 kg
Fayloau	Maximum	3 kg	6 kg	10 kg	20 kg
Standard cycle time ¹		0.42 sec	0.38/0.39/0.42 sec	0.39/0.41/0.44 sec	0.39/0.43 sec
Installation environments		Standard/Cleanroom ISO Class 4			
Available controllers		RC90B			

1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical).

LSB-SERIES SCARA ROBOTS



SPECIFICATIONS

		LS3-B401	
Mounting type		Tabletop	
Arm length	Arm #1 + #2	400 mm	
Weight (cables not included)		14 kg	
Repeatability	Joints #1, #2	±0.010 mm	
	Joint #3	±0.010 mm	
	Joint #4	±0.010 deg	
Max. motion range	Joint #1	±132 deg	
	Joint #2	±141 deg	
	Joint #3 Std	150 mm	
	Joint #3 Clean	120 mm	
	Joint #4	±360 deg	
Payload	Rated	1 kg	
	Maximum	3 kg	
Standard cycle time ¹		0.42 sec	
Joint #4 allowable	Rated	0.005 kg∙m²	
moment of inertia ²	Maximum	0.050 kg∙m²	
Joint #3 downward force		100 N	
Electric lines		15 (15-Pin: D-Sub), 8 (8-Pin: RJ45) Cat5e	
Pneumatic lines		Φ 4 mm × 1, Φ 6 mm × 2	
Installation environments		Standard/Cleanroom ISO Class 4	
Available controllers		RC90B	
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)	

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.



Controllers



Low cost and high performance

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EPSON

- Arm lengths of 500, 600 and 700 mm
- Built-in camera cable
- Fast cycle throughput
- Cleanroom ISO Class 4 models available

SPECIFICATIONS

		LS6-B502	LS6-B602	LS6-B702					
Mounting type			Tabletop						
Arm length	Arm #1 + #2	500 mm 600 mm 700 mm							
Weight (cables not included)		17 kg	17 kg	18 kg					
Repeatability	Joints #1, #2		±0.020 mm						
	Joint #3		±0.010 mm						
	Joint #4								
Max. motion range	Joint #1		±132 deg						
	Joint #2		±150 deg						
	Joint #3 Std	200 mm							
	Joint #3 Clean	170 mm							
	Joint #4	±360 deg							
Payload	Rated	2 kg							
	Maximum		6 kg						
Standard cycle time ¹		0.38 sec	0.39 sec	0.42 sec					
Joint #4 allowable	Rated		0.010 kg•m ²						
moment of inertia ²	Maximum		0.120 kg•m ²						
Joint #3 downward force		100 N							
Electric lines		15 (15-Pin: D-Sub), 8 (8-Pin: RJ45) Cat5e							
Pneumatic lines		Φ4 mm × 1, Φ6 mm × 2							
Installation environments		Standard/Cleanroom ISO Class 4							
Available controllers		RC90B							
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)							

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.

Options

LSB-SERIES SCARA ROBOTS



Powerful, fast and affordable

- Arm lengths of 600, 700 and 800 mm
- Built-in camera cable
- No battery required for encoder
- Cleanroom ISO Class 4 models available



		LS10-B60X	LS10-B70X	LS10-B80X			
Mounting type			Tabletop				
Arm length	Arm #1 + #2	600 mm	700 mm	800 mm			
Weight (cables not included)		22 kg	22 kg	23 kg			
Repeatability	Joints #1, #2	±0.020 mm	±0.020 mm	±0.025 mm			
	Joint #3		±0.010 mm				
	Joint #4		±0.010 deg				
Max. motion range	Joint #1		±132 deg				
	Joint #2		±150 deg				
	Joint #3 Std		200 mm or 300 mm				
	Joint #3 Clean	170 mm or 270 mm					
	Joint #4	±360 deg					
Payload	Rated	5 kg					
	Maximum		10 kg				
Standard cycle time ¹		0.39 sec	0.41 sec	0.44 sec			
Joint #4 allowable	Rated		0.020 kg•m ²				
moment of inertia ²	Maximum		0.300 kg•m ²				
Joint #3 downward force			200 N				
Electric lines		15	i (15-Pin: D-Sub), 8 (8-Pin: RJ45) (Cat5e			
Pneumatic lines			Φ4 mm × 1, Φ6 mm × 2				
Installation environments		Standard/Cleanroom ISO Class 4					
Available controllers		RC90B					
Safety standards		CE Mark: EN	IC Directive, Machinery Directive, ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)	RoHS Directive			

EPSON

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 If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using the INERTIA command.



Click Here for CAD Drawings

EPSON

Long reach, heavy payload – all at a great value

- Arm lengths of 800 and 1,000 mm
- Fast cycle times
- Built-in camera cable
- Cleanroom ISO Class 4 models available

SPECIFICATIONS

		LS20-B804 LS20-BA04					
Mounting type		Tabl	etop				
Arm length	Arm #1 + #2	800 mm	1,000 mm				
Weight (cables not included)		48 kg	51 kg				
Repeatability	Joints #1, #2	±0.02	5 mm				
	Joint #3	±0.01	0 mm				
	Joint #4	±0.010 deg					
Max. motion range	Joint #1	±132	deg				
	Joint #2	±152	deg				
	Joint #3 Std	420 mm					
	Joint #3 Clean	390 mm					
	Joint #4	±360 deg					
Payload	Rated	10 kg					
	Maximum	20 kg					
Standard cycle time ¹		0.39 sec	0.43 sec				
Joint #4 allowable	Rated	0.050	kg∙m²				
moment of inertia ²	Maximum	1.000	kg∙m²				
Joint #3 downward force		250) N				
Electric lines		15 (15-Pin: D-Sub), 9 (9-Pin: D-Sub), 8 (8-Pin: RJ45) Cat5e					
Pneumatic lines		Φ4 mm × 1, Φ6 mm × 2					
Installation environments		Standard/Cleanroom ISO Class 4					
Available controllers		RC90B					
Safety standards		CE Mark: EMC Directive, Mach ANSI/RIA R NFPA 79 (20	inery Directive, RoHS Directive 15.06-2012 007 Edition)				

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.

RS-Series

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EPSON

RS-Series SCARA robots are unique and highly flexible. Offering payloads of 3 kg or 4 kg and cycle times starting at 0.34 seconds, they have the ability to cross under as well as reach behind themselves. RS-Series robots are able to utilize the entire workspace underneath the arm. As a result, there is no lost space in the center of the work envelope.

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RS-SERIES SCARA ROBOTS



RS3

Compact SCARA robot with unique workspace design





High-performance, innovative workspace design with longer reach capabilities



RS-SERIES SPECIFICATIONS

		RS3	RS4		
Arm length	Arm #1 + #2	350 mm	550 mm		
Repeatability	Joints #1, #2	±0.010 mm	±0.015 mm		
Deviced	Rated	1 kg	1 kg		
Fayload	Maximum	3 kg	4 kg		
Standard cycle time ¹		0.34 sec	0.39 sec		
Installation environments		Standard/Cleanroom ISO Class 3 with ESD			
Available controllers		RC700A			

1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical).

RS-SERIES SCARA ROBOTS



SPECIFICATIONS

		RS3-351
Mounting type		Ceiling
Arm length	Arm #1 + #2	350 mm
Weight (cables not included)		17 kg
Repeatability	Joints #1, #2	±0.010 mm
	Joint #3	±0.010 mm
	Joint #4	±0.010 deg
Max. motion range	Joint #1	±225 deg
	Joint #2	±225 deg
	Joint #3 Std	130 mm
	Joint #3 Clean	100 mm
	Joint #4	±720 deg
Payload	Rated	1 kg
	Maximum	3 kg
Standard cycle time ¹		0.34 sec
Joint #4 allowable	Rated	0.005 kg∙m²
moment of inertia ²	Maximum	0.050 kg∙m²
Joint #3 downward force		150 N
Electric lines		15-Pin (D-Sub)
Pneumatic lines		$\Phi4 \text{ mm} \times 1$, $\Phi6 \text{ mm} \times 2$
Installation environments		Standard/Cleanroom ISO Class 3 with ESD
Available controllers		RC700A
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive UL1740 ANSI/RIA R15.06 NFPA 79

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.





Click Here for CAD Drawings

High-performance, innovative workspace design

- Arm length of 550 mm
- Payloads up to 4 kg
- Superior cycle times
- Cleanroom ISO Class 3 models available

SPECIFICATIONS

		RS4-551
Mounting type		Ceiling
Arm length	Arm #1 + #2	550 mm
Weight (cables not included)		19 kg
Repeatability	Joints #1, #2	±0.015 mm
	Joint #3	±0.010 mm
	Joint #4	±0.010 deg
Max. motion range	Joint #1	±225 deg
	Joint #2	±225 deg
	Joint #3 Std	130 mm
	Joint #3 Clean	100 mm
	Joint #4	±720 deg
Payload	Rated	1 kg
	Maximum	4 kg
Standard cycle time ¹		0.39 sec
Joint #4 allowable	Rated	0.005 kg•m²
moment of inertia ²	Maximum	0.050 kg•m²
Joint #3 downward force		150 N
Electric lines		15-Pin (D-Sub)
Pneumatic lines		Φ 4 mm × 1, Φ 6 mm × 2
Installation environments		Standard/Cleanroom ISO Class 3 with ESD
Available controllers		RC700A
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive UL1740 ANSI/RIA R15.06 NFPA 79

EPSON

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command. Options

GX-Series

Introducing the GX-Series, part of Epson's new high-power-density SCARA robot lineup. The GX-Series builds upon 40 years of expertise to deliver next-level performance and flexibility in a compact footprint. A breakthrough in productivity, the GX-Series uses advanced Epson GYROPLUS Technology to provide fast production speeds and smooth motion control, all with higher payloads.

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EPSON

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GX-SERIES SCARA ROBOTS





Ultra high performance and flexibility





Heavier payloads and longer reach with reduced vibration



GX-SERIES SPECIFICATIONS

		GX4	GX8		
Arm length	Arm #1 + #2	250/300/350 mm	450/550/650 mm		
Repeatability	Joints #1, #2	±0.008/ ±0.010 mm	±0.015 mm		
Dayload	Rated	2 kg	4 kg		
Fayloau	Maximum	4 kg	8 kg		
Standard cycle time		0.33/0.34/0.35 sec	0.28/0.30/0.33 sec		
Installation environments		Standard/ESD/Cleanroom ISO Class 3 with ESD Standard/ESD/Cleanroom ISO Class with ESD/Protected IP65			
Available controllers		RC700D			

GX-SERIES SCARA ROBOTS



<u>Click Here for</u> <u>CAD Drawings</u>

Ultra high performance and flexibility

- Handles high payloads from a small footprint
- Arm lengths of 250, 300 and 350 mm
- Epson's GYROPLUS Technology reduces vibration
- Curved arm option (350 mm) maximizes work envelope
- Cleanroom ISO Class 3 models available



SPECIFICATIONS

			GX4-A251x	GX4-	A301x	GX4-A351x			
Mounting type			Tabletop	Tabletop	Multiple	Tabletop	Multiple		
Arm length		Arm #1 + #2	250 mm	250 mm 300 mm					
Weight (cables not inc	luded)		15 kg	15 kg	17 kg	16 kg	17 kg		
Repeatability		Joints #1, #2	±0.008 mm	±0.008 mm ±0.010 mm					
		Joint #3		±0.010 mm					
		Joint #4			±0.005 deg				
Max. motion range		Joint #1	±140 deg	±140 deg	±115 deg	±140 deg	±120 deg		
	Straight	Joint #2 Std	±141 deg	±142 deg	±135 deg	±142 deg	9		
		Joint #2 Clean	±137 deg	±137 deg	±135 deg	±142 deg	9		
		Joint #1 Right Hand	_			-110 ~ 165 deg			
		Joint #1 Left Hand				-165 ~ 110 deg			
		Joint #2 Right Hand Std & ESD				-120 ~ 165 deg			
	Curved	Joint #2 Right Hand Clean				-120 ~ 160 deg	-		
		Joint #2 Left Hand Std & ESD	_			-165 ~ 120 deg			
		Joint #2 Left Hand Clean	-			-160 ~ 120 deg			
	A 11	Joint #3 Std & ESD	150 mm						
	Modele	Joint #3 Clean			120 mm				
	wouers	Joint #4	±360 deg						
Payload		Rated			2 kg				
		Maximum			4 kg				
Standard cycle time ¹			0.33 sec	0.34	1 sec	0.35 sec	;		
Joint #4 allowable		Rated			0.005 kg•m ²				
moment of inertia ²		Maximum			0.05 kg•m ²				
Joint #3 downward for	се		150 N						
Electric lines				15-Pin (D-Sub), 8-Pin (RJ45	5 Cat5e)			
Pneumatic lines				Φ	96 mm x 2, ø4 mm x	:1			
Installation environme	nts			Standard/ESD	/Cleanroom ISO Cla	iss 3 with ESD			
Available controllers					RC700D				
Safety standards			CE Mark: UL1740						

1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 kg payload of tabletop model boost mode (path coordinates optimized for maximum speed). 2 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.



Click Here for CAD Drawings

Heavier payloads and longer reach with reduced vibration

- High power density
- Arm lengths of 450, 550 and 650 mm
- Longer Z axis available on all models
- Higher acceleration and faster settling times
- Cleanroom ISO Class 3 models available



			GX8-A45	x	(GX8-A55	K	(GX8-A65	-A65x	
Mounting type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall	Tabletop Ceiling Wal			
Arm length	Arm #1 + #2		450 mm 550 mm 650 r				650 mm				
Weight (cables not included)		33	kg	35 kg	34	kg	36 kg	35	kg	37 kg	
Repeatability	Joints #1, #2					±0.015 mm					
	Joint #3					±0.010 mm					
	Joint #4					±0.005 deg					
Max. motion range	Joint #1	±152 deg	±105 deg	±105 deg	±152 deg	±152 deg	±135 deg	±152 deg	±152 deg	±148 deg	
	Joint #2 Std & ESD	Z: 0 mm ~ -270 mm ± 147.5 deg Z: -270 mm ~ -330 mm ± 145 deg	105			±147.5 deg					
	Joint #2 Clean/ Protected	Z: 0 mm ~ -240 mm ± 147.5 deg Z: -240 mm ~ -300 mm ± 137.5 deg	2:0 mm ~ ±125 deg -240 mm ~ -240 mm ~ -240 mm ~ -240 mm ~ -300 mm300 mm305 deg		Z: 0 ~ -2 ± 147. Z: -240 ~ ± 145	240 mm 5 deg, -300 mm 5 deg	±145 deg	±147.5 deg			
	Joint #3 Std & ESD	200 mm/330 mm									
	Joint #3 Clean/ Protected	170 mm/300 mm									
	Joint #4	±360 deg									
Payload	Rated					4 kg					
	Maximum					8 kg					
Standard cycle time ¹			0.28 sec			0.30 sec			0.33 sec		
Joint #4 allowable	Rated					0.01 kg•m ²					
moment of inertia ²	Maximum					0.16 kg•m ²					
Joint #3 downward for	ce	150 N									
Electric lines	15-Pin (D-Sub), 9-Pin (D-Sub), 8-Pin (RJ45 Cat5e)										
Pneumatic lines		Φ4 mm x 2, Φ6 mm x 2									
Installation environme	nts	Standard/ESD/Cleanroom ISO Class 3 with ESD/Protected IP65									
Available controllers						RC700D					
Safety standards					CE	Mark: UL17	40				

EPSON

1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 kg payload of tabletop model boost mode (path coordinates optimized for maximum speed). 2 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command. Options

G-Series

With a vast product lineup including reach options from 175 mm to 1,000 mm, G-Series robots are rich in features and performance. With payloads ranging from 1 kg to 20 kg and cycle times down to 0.29 seconds, G-Series robots offer the speed and overall performance to accomplish even the most difficult tasks. Featuring a unique high-rigidity arm design, which reduces vibration, these robots deliver fast speeds and high precision with no overshoot or ringing.

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EPSON

G-SERIES SCARA ROBOTS





High-performance, high-precision mini SCARA robot





Compact, fast and powerful with straight or unique curved arm





Ultra fast speeds with extraordinary motion range





Provides high speed at heavy payloads





Long reach and high payloads with strong J4 inertia

EPSON

Cleanroom/ESD G6 SCARA

G-SERIES SPECIFICATIONS

		G1	G3	G6	G10	G20	
Arm length	Arm #1 + #2	175/225 mm	250/300/350 mm	250/300/350 mm 450/550/650 mm 650/850		850/1,000 mm	
Repeatability	Joints #1, #2	±0.005/ ±0.008 mm	±0.008/ ±0.010 mm	±0.015 mm ±0.025 mm		±0.025 mm	
D estand	Rated	0.5 kg	1 kg	3 kg	5 kg	10 kg	
Fayloau	Maximum	1 kg	3 kg	6 kg	10 kg	20 kg	
Standard cycle time ¹		0.29/0.30 sec	0.36/0.37/0.37 sec	0.33/0.36/0.38 sec 0.34/0.37 sec 0.37/		0.37/0.42 sec	
Installation environments		Standard/Cleanroom ISO Class 3 with ESD		Standard/Cleanroom ISO Class 3 with ESD/Protected IP54 and IP65			
Available controllers		BC700A					

1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical; G1: 100 mm horizontal, 25 mm vertical).

G-SERIES SCARA ROBOTS



Click Here for CAD Drawings

Powerful mini SCARA

- High-precision repeatabilities down to 0.005 mm
- Arm lengths of 175 and 225 mm
- Ultra compact, yet extremely powerful
- Cleanroom ISO Class 3 models available
- 3-Axis models available



SPECIFICATIONS

		G1-171	G1-221	G1-171xZ	G1-221xZ	
Number of axes		4-4	Axis	3-4	Axis	
Mounting type		Tabl	letop	Tab	letop	
Arm length	Arm #1 + #2	175 mm	225 mm	175 mm	225 mm	
Weight (cables not included)		8	kg	8	kg	
Repeatability	Joints #1, #2	±0.005 mm	±0.008 mm	±0.005 mm	±0.008 mm	
	Joint #3	±0.01	0 mm	±0.01	10 mm	
	Joint #4	±0.01	0 deg		-	
Max. motion range	Joint #1	±125	5 deg	±125	5 deg	
	Joint #2 Std	±140 deg	±152 deg	±135 deg	±135 deg	
	Joint #2 Clean	±140 deg	±149 deg	±123 deg	±132 deg	
	Joint #3 Std	100	mm	100 mm		
	Joint #3 Clean	80 mm		80 mm		
	Joint #4	±360) deg	,	-	
Payload	Rated	0.5 kg		0.5 kg		
	Maximum	1 kg		1.5 kg		
Standard cycle time ¹		0.29 sec	0.30 sec	0.29 sec	0.30 sec	
Joint #4 allowable	Rated	0.0003	3 kg∙m²		_	
moment of inertia ²	Maximum	0.0040) kg•m²		_	
Joint #3 downward force		50 N				
Electric lines		24 (9-Pin D-Sub, 15-Pin D-Sub)				
Pneumatic lines		Φ4 mm × 1, Φ6 mm × 2				
Installation environments	Standard/Cleanroom ISO Class 3 with ESD					
Available controllers	RC700A					
Safety standards	CE Mark: EMC Directive, Machinery Directive, RoHS Directive UL1740 ANSI/RIA R15.06 NFPA 79					

1 Cycle time based on round-trip arch motion (100 mm horizontal, 25 mm vertical) with 0.5 kg payload (path coordinates optimized for maximum speed).

2 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.

G3

Click Here for CAD Drawings

Compact and ultra powerful

- Arm lengths of 250, 300 and 350 mm
- Handles payloads up to 3 kg
- Fast cycle times for increased productivity
- Available with straight or curved arm
- Cleanroom ISO Class 3 models available



SPECIFICATIONS

			G3-251 G3-301			G3-351			
Mounting type			Tabletop	Tabletop	Multiple	Tabletop	Multiple		
Arm length		Arm #1 + #2	250 mm	300	mm	350	mm		
Weight (cables r	not included)				14 kg				
Repeatability		Joints #1, #2	±0.008 mm		±0.01	0 mm			
		Joint #3			±0.010 mm				
		Joint #4		1	±0.005 deg				
Max. motion	Straight	Joint #1	±140 deg	±140 deg	±115 deg	±140 deg	±120 deg		
range		Joint #2 Std	±141 deg	±142 deg	±135 deg	±142	deg		
		Joint #2 Clean	±137 deg	±141 deg	±135 deg	±142	deg		
	Curved	Joint #1 Right Hand	-	-125~150 deg	-	-110~165 deg	-105~130 deg		
		Joint #1 Left Hand	-	-150~125 deg	-	-165~110 deg	-130~105 deg		
		Joint #2 Right Hand Std		-135~150 deg		-120~165 deg	-120~160 deg		
		Joint #2 Right Hand Clean	-	-135~145 deg	_	-120~160 deg	-120~150 deg		
		Joint #2 Left Hand Std		-150~135 deg		-165~120 deg	-160~120 deg		
		Joint #2 Left Hand Clean	-	-145~135 deg	-	-160~120 deg	-150~120 deg		
All models		Joint #3 Std	150 mm						
		Joint #3 Clean	120 mm						
		Joint #4			±360 deg				
Payload		Rated	1 kg						
		Maximum	3 kg						
Standard cycle	time ¹		0.36 sec 0.37 sec						
Joint #4 allowab	ole	Rated			0.005 kg•m ²				
moment of inert	ia ²	Maximum	0.050 kg∙m²						
Joint #3 downwa	ard force		150 N						
Electric lines			15-Pin (D-Sub)						
Pneumatic lines	;		Φ4 mm × 1, Φ6 mm × 2						
Installation envi	ronments			Standard/Clea	anroom ISO Class	s 3 with ESD			
Available contro	ollers				RC700A				
Safety standard	ls		CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06 UL1740 NFPA 79				ive		

EPSON

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.

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G-SERIES SCARA ROBOTS



Click Here for CAD Drawings

Compact, fast and powerful

- Arm lengths of 450, 550 and 650 mm
- High-rigidity arm = ultra high speed
- Tabletop, wall- and ceiling-mount models available
- Cleanroom ISO Class 3 and Protected IP65 models available



SPECIFICATIONS

		G6-45x			G6-55x			G6-65x			
Mounting type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall	
Arm length	Arm #1 + #2	450 mm			550 mm			650 mm			
Weight (cables not included)		27 kg		29 kg	27 kg 29 kg		28	kg	29.5 kg		
Repeatability	Joints #1, #2	±0.015 mm									
	Joint #3	±0.010 mm									
	Joint #4	±0.005 deg									
Max. motion range	Joint #1	±152 deg	±120 deg	±105 deg	±152	deg	±135 deg	±152	deg	±148 deg	
	Joint #2	Z: 0 mm ~ -270 mm ±147.5 deg Z: -270 mm ~ -330 mm ±145 deg	±130) deg	±147.5 deg						
	Joint #3 Std	180 mm/330 mm									
	Joint #3 Clean	150 mm/300 mm									
	Joint #4	±360 deg									
Payload Rated					3 kg						
	Maximum			6 kg							
Standard cycle time ¹		0.33 sec	0.36 sec			0.38 sec					
Joint #4 allowable	Rated	0.010 kg•m²									
moment of inertia ²	Maximum	0.120 kg•m²									
Joint #3 downward force		150 N									
Electric lines		24 (9-Pin D-Sub, 15-Pin D-Sub)									
Pneumatic lines		Φ4 mm × 2, Φ6 mm × 2									
Installation environments		Standard/Cleanroom ISO Class 3 with ESD/Protected IP54 and IP65									
Available controllers		RC700A									
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive UL1740 ANSI/RIA R15.06 NFPA 79									

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.



G-SERIES SCARA ROBOTS

Click Here for CAD Drawings

Long reach at high speeds

Arm lengths of 650 and 850 mm

G10

- Reduced residual vibration for faster accel./decel. rates
- Tabletop, wall- and ceiling-mount models available
- Cleanroom ISO Class 3 and Protected IP65 models available



			G10-65x		G10-85x				
Mounting type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall		
Arm length	Arm #1 + #2	650 mm 850 mm							
Weight (cables not included)		46 kg 51 kg			48	53 kg			
Repeatability	Joints #1, #2	±0.025 mm							
	Joint #3	±0.010 mm							
	Joint #4	±0.005 deg							
Max. motion range	Joint #1	±152 deg	±107	±107 deg		±152 deg			
	Joint #2	±152.5 deg	±130) deg	For Clean/Protected models ± 152.5 deg below Z = -360 ~ -390 deg ± 151 deg				
	Joint #3 Std	180 mm/420 mm							
	Joint #3 Clean	150 mm/390 mm							
	Joint #4								
Payload	Rated	5 kg							
	Maximum			1	10 kg				
Standard cycle time ¹		0.34 sec 0.37 sec							
Joint #4 allowable	Rated	0.020 kg∙m²							
moment of inertia ²	Maximum	0.250 kg•m²							
Joint #3 downward force	250 N								
Electric lines	24 (9-Pin D-Sub, 15-Pin D-Sub)								
Pneumatic lines	Φ4 mm × 2, Φ6 mm × 2								
Installation environments	Standard/Cleanroom ISO Class 3 with ESD/Protected IP54 and IP65								
Available controllers	RC700A								
Safety standards	CE Mark: EMC Directive, Machinery Directive, RoHS Directive UL1740 ANSI/RIA R15.06 NFPA 79								

EPSON

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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.



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 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using the INERTIA command.

SPECIFICATIONS

		G20-85x			G20-A0x				
Mounting type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall		
Arm length	Arm #1 + #2	850 mm			1,000 mm				
Weight (cables not included)		48 kg 53 kg			50	55 kg			
Repeatability	Joints #1, #2	±0.025 mm							
	Joint #3	±0.010 mm							
	Joint #4	±0.005 deg							
Max. motion range	Joint #1	±152 deg	±107 deg		±152 deg		±107 deg		
	Joint #2	±152.5 deg ±130 deg For Clean/Protect ±152.5 deg below Z = -360 -360				Clean/Protected n ow Z = -360 ~ -39	d models -390 deg ±151 deg		
	Joint #3 Std	180 mm/420 mm							
	Joint #3 Clean	150 mm/390 mm							
	Joint #4			±36	±360 deg				
Payload	Rated	10 kg							
	Maximum			20	20 kg				
Standard cycle time ¹		0.37 sec 0.42 sec							
Joint #4 allowable	Rated	0.050 kg∙m²							
moment of inertia ²	Maximum	0.450 kg∙m²							
Joint #3 downward force	250 N								
Electric lines	24 (9-Pin D-Sub, 15-Pin D-Sub)								
Pneumatic lines	Φ4 mm × 2, Φ6 mm × 2								
Installation environments	Standard/Cleanroom ISO Class 3 with ESD/Protected IP54 and IP65								
Available controllers	RC700A								
Safety standards	CE Mark: EMC Directive, Machinery Directive, RoHS Directive UL1740 ANSI/RIA R15.06 NFPA 79								

G2C CAD Drawings

Click Here for

Ultra long reach and heavy payload

- Arm lengths of 850 and 1,000 mm
- Unique design structure for high rigidity
- Tabletop, wall- and ceiling-mount models available
- Cleanroom ISO Class 3 and Protected IP65 models available



Why Epson 6-Axis Robots?



Epson's space-saving 6-Axis robots enable a remarkable range of motion to maximize application possibilities.

World's first folding-arm design

 Epson's innovative N-Series offers significant advantages in motion and workspace efficiency

Proven technology

Epson 6-Axis robots utilize the same controls, software and motion technologies found in our industry-leading SCARA robots

SlimLine design

- Saves valuable factory floorspace and allows our robots to fit where other robots can't—without compromising power, speed or reach
- Compact wrist pitch enables our robots to access hard-to-reach places in confined spaces




VT-Series All-in-One

VT-Series All-in-One 6-Axis robots feature great performance at an ultra low price, offering many of the same features as Epson highend robots. VT-Series robots include a built-in controller and simplified cabling, allowing fast, easy integration.



N-Series

The **N-Series** lineup features a revolutionary compact folding-arm design that maximizes motion efficiency for faster cycle times. Packed with unique technology, the N-Series significantly reduces workspace requirements when compared to typical 6-Axis robots.



C-Series

C-Series 6-Axis robots provide great cycle times and a unique SlimLine design, backed by remarkable precision and motion range. These compact robots offer exceptional performance for even the most demanding and complex applications.

VT-Series All-in-One

With a built-in controller and simplified cabling, VT-Series All-in-One 6-Axis robots offer quick setup and installation. Featuring 110 V and 220 V power connections or a DC-powered version, they ensure easy integration—whether in a lab, an industrial environment or a mobile application.

EPSON

6-AXIS ROBOTS







A feature-packed performer at a remarkably low cost

VT-SERIES ALL-IN-ONE SPECIFICATIONS

		VT6L
Arm length		920 mm
Repeatability	Joints #1 - #6	±0.100 mm
Devland	Rated	3 kg
Payload	Maximum	6 kg
Standard cycle time ¹		0.60 sec
Installation environments		Standard/Cleanroom ISO Class 4/Protected IP67
Available controllers		Built-in

1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical).

VT-SERIES ALL-IN-ONE 6-AXIS ROBOTS



SPECIFICATIONS

		VT6	-A901 (V1	[6L)	VT6-A901-DC (VT6L-DC)	
Mounting type		Tabletop	Ceiling	Wall	Tabletop	
Degree of freedom			6		6	
Arm length	P Point: through the		000		000	
	center of J4/J5/J6		920 mm		92011111	
Wrist flange surface			1,000 mm		1,000 mm	
Weight (cables not included)			40 kg		40 kg	
Repeatability	Joints #1 - #6		±0.100 mm		±0.100 mm	
Max. motion range	Joint #1	±170 d	eg/±170 deg/±3	30 deg	±170 deg/±170 deg/±30 deg	
	Joint #2	-160	~ +65 deg (225	deg)	-160 ~ +65 deg (225 deg)	
	Joint #3	-51 ~	+190 deg (241	deg)	-51 ~ +190 deg (241 deg)	
	Joint #4		±200 deg		±200 deg	
	Joint #5		±125 deg		±125 deg	
	Joint #6		±360 deg		±360 deg	
Payload	Rated		3 kg		3 kg	
	Maximum		6 kg		6 kg	
Standard cycle time ¹			0.60 sec		0.60 sec	
Allowable moment	Joint #4		0.300 kg•m ²		0.300 kg•m ²	
of inertia ²	Joint #5		0.300 kg•m ²		0.300 kg•m ²	
	Joint #6		0.100 kg•m ²		0.100 kg•m ²	
Standard I/O			In: 24/Out: 16		In: 24/Out: 16	
Installation environments		Standard/ Cleanroom ISO Class 4/ Protected IP67	Stan	dard	Standard	
Available controllers			Built-in		Built-in	
Safety standards		CE M Machinery ANS NFP	lark: EMC Dire Directive, RoH I/RIA R15.06-2 A 79 (2007 Edi	ctive, S Directive 2012 tion)	CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)	
Power		1	10 and 220 VA	C	48 VDC	

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 If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using the INERTIA command.



N-Series

2 3

The N-Series offers revolutionary technology that provides significant advantages for more efficient workspace utilization than typical 6-Axis robots. Packed with unique technology exclusive to Epson, N-Series robots set a new standard in 6-Axis technology with the world's first folding-arm design.

EPSON

N-SERIES 6-AXIS ROBOTS







World's first folding-arm design, ideal for assembly and parts handling

N6

Higher payloads and longer reach for load/unload applications



N-SERIES SPECIFICATIONS

		N2	N6
Arm length		450 mm	850/1,000 mm
Repeatability	Joints #1, #2	±0.02 mm	±0.030 mm/±0.040 mm
Payload	Rated	1 kg	3 kg
Fayloau	Maximum	2.5 kg	6 kg
Installation environments		Standard	Standard/Cleanroom ISO Class 5 with ESD
Available controllers		RC7	00A

N-SERIES 6-AXIS ROBOTS



SPECIFICATIONS

		N2-A	450		
Mounting type		Tabletop	Ceiling		
Degree of freedom		6			
Arm length	P Point: through the	450			
	center of J4/J5/J6	4301			
Wrist flange surface		507 r	nm		
Weight (cables not included)		19 -	<g< th=""></g<>		
Repeatability	Joints #1 – #6	±0.020) mm		
Max. motion range	Joint #1	±180 deg			
	Joint #2	±180 deg			
	Joint #3	±180	deg		
	Joint #4	±195	deg		
	Joint #5	±130	deg		
	Joint #6	±360	deg		
Payload	Rated	1 k	g		
	Maximum	2.5	kg		
Allowable moment	Joint #4	0.200 k	kg∙m²		
of inertia ¹	Joint #5	0.200 k	kg∙m²		
	Joint #6	0.080 k	kg∙m²		
Electric lines		15 (15-Pin: D-Sub), 8	(8-Pin: RJ45) Cat5e		
Pneumatic lines		Φ6 mr	m × 2		
Installation environment		Stanc	lard		
Available controllers		RC70	A00		
Safety standards		CE Mark: EMC Directive, Machi ANSI/RIA R1 NFPA 79 (20	nery Directive, RoHS Directive 15.06-2012 107 Edition)		

1 If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using the INERTIA command.

N6

Click Here for CAD Drawings

Long reach, revolutionary design

- Arm lengths of 850 and 1,000 mm
- Payloads up to 6 kg
- World's first folding-arm design
- Ideal for confined spaces and load/unload applications

SPECIFICATIONS

		N6-A85x	N6-A10x
Mounting type		Ceiling	Tabletop/Ceiling
Degree of freedom		6	6
Arm length	P Point: through the	850 mm	1 000 mm
	center of J4/J5/J6	850 11111	1,000 mm
Wrist flange surface		960 mm	1,110 mm
Weight (cables not included)		64 kg	69 kg
Repeatability	Joints #1 – #6	±0.030 mm	±0.040 mm
Max. motion range	Joint #1	±180	deg
	Joint #2	±180	deg
	Joint #3	±180	deg
	Joint #4	±200) deg
	Joint #5	±125	deg
	Joint #6	±360) deg
Payload	Rated	3 kg	3 kg
	Maximum	6 kg	6 kg
Allowable moment	Joint #4	0.420	kg∙m²
of inertia ¹	Joint #5	0.420	kg∙m²
	Joint #6	0.140	kg∙m²
Electric lines		15 (15-Pin: D-Sub), 8	8 (8-Pin: RJ45) Cat5e
Pneumatic lines		Φ6 m	m × 2
Installation environment		Stan	dard
Available controllers		RC7	100A
Safety standards		CE Mark: EMC Directive, Mach ANSI/RIA R NFPA 79 (20	inery Directive, RoHS Directive 15.06-2012 007 Edition)

1 If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using the INERTIA command.

EPS

C-Series

With exceptional flexibility and a slim, compact design, C-Series robots provide an innovative solution for 6-Axis applications. Their small footprint makes them ideal for factories that need to save space. And their long arms enable them to access hard-to-reach areas in the workplace.

EDSON

G

C-SERIES 6-AXIS ROBOTS





Compact robots with high repeatability and fast cycle times



Powerful robots with long reach and heavy payloads



High-performance

robots with heavy payload and second-generation GYROPLUS Technology



C-SERIES SPECIFICATIONS

		C4	C8	C12
Arm length		600/900 mm	700/900/1,400 mm	1,400 mm
Repeatability	Joints #1 - #6	±0.020/±0.030 mm	±0.020/±0.030/±0.050 mm	±0.050 mm
	Rated	1 kg	3 kg	3 kg
Payload	Maximum	4 kg (5 kg with arm-downward positioning)	8 kg	12 kg
Standard cycle time ¹		0.37/0.47 sec	0.31/0.35/0.53 sec	0.50 sec
Installation environments		Standard/Cleanroom ISO Class 3 and 4 with ESD	Standard/Cleanroom ISO Class 3 and 4 with ESD/Protected IP67	Standard/Cleanroom ISO Class 4 with ESD
Available controllers			RC700A	

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).

C-SERIES 6-AXIS ROBOTS



SPECIFICATIONS

		C4-A6	01 (C4)	C4-A90)1 (C4L)
Mounting type		Tabletop	Ceiling	Tabletop	Ceiling
Degree of freedom				6	^
Arm length	P Point: through the	600) mm	000	mm
	center of J4/J5/J6	000	711111	900	
Wrist flange surface		665	5 mm	965	mm
Weight (cables not included)		27	7 kg	29	kg
Repeatability	Joints #1 – #6	±0.02	20 mm	±0.03	80 mm
Max. motion range	Joint #1		±170) deg	
	Joint #2		-160 ~ -	+65 deg	
	Joint #3		-51 ~ +	225 deg	
	Joint #4		±200) deg	
	Joint #5		±138	5 deg	
	Joint #6		±360) deg	
Payload	Rated		1	kg	
	Maximum		4	kg	
Standard cycle time ¹		0.37	7 sec	0.47	sec
Allowable moment	Joint #4		0.150	kg∙m²	
of inertia ²	Joint #5		0.150	kg∙m²	
	Joint #6		0.100	kg∙m²	
Electric lines			9-Pin (D-Sub)	
Pneumatic lines			Φ4 m	nm × 4	
Installation environments			Standard/Cleanroom	ISO Class 3 with ESD	
Available controllers			RC	700A	
		CE Ma	ark: EMC Directive, Mach	ninery Directive, RoHS D	irective
Safety standards				1/4U A R15.06	
			NFF	PA 79	
	L				

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 If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using the INERTIA command.



Click Here for C8 CAD Drawings

Click Here for C12 CAD Drawings

Long reach and heavy payload

- Arm lengths of 700, 900 and 1,400 mm
- Payloads up to 12 kg
- Slim design and compact wrist—fits in tight spaces
- Cleanroom ISO Class 3 (C8/C8L) and Class 4 (C8XL/ C12XL) models available

SPECIFICATIONS

		C8-A701 (C8)	C8-A901 (C8L)	C8-A1401 (C8XL)	C12XL-A1401 (C12XL)
Mounting type			Tabletop/Ceiling/Wa	all	Tabletop
Degree of freedom				6	
Arm length	P Point: through the	711 mm	001 mm	1.400 mm	1.400 mm
	center of J4/J5/J6	7 1 1 11111	90111111	1,400 mm	1,400 11111
Wrist flange surface		791 mm	981 mm	1,480 mm	1,480 mm
Weight (cables not included)		49 kg (Protected: 53 kg)	52 kg (Protected: 56 kg)	62 kg (Protected: 66 kg)	63 kg
Repeatability	Joints #1 – #6	±0.02 mm	±0.03 mm	±0.05 mm	±0.05 mm
Max. motion range	Joint #1			±240 deg	
	Joint #2	-158 ~	+65 deg	-135	~ +55 deg
	Joint #3			61 ~ +202 deg	
	Joint #4			±200 deg	
	Joint #5			±135 deg	
	Joint #6			±360 deg	
Payload	Rated			3 kg	
	Maximum		8 kg		12 kg
Standard cycle time ¹		0.31 sec	0.35 sec	0.53 sec	0.50 sec
Allowable moment	Joint #4		0.470 kg•m ²		0.700 kg•m ²
of inertia ²	Joint #5		0.470 kg•m ²		0.700 kg•m ²
	Joint #6		0.150 kg•m ²		0.200 kg•m ²
Electric lines			15-Pin (D-Sub), 8-P	in (RJ45), 6-Pin (for Force S	Sensor)
Pneumatic lines				Φ6 mm x 2	
Installation environments		Standard/Clear	nroom ISO Class 3 with	ESD/Protected IP67	Standard/Cleanroom ISO Class 4 with ESD
Available controllers				RC700A	
Safety standards		CE Mark: EMC [Directive, Machinery Dire UL1740 ANSI/RIA R15.06 NFPA 79	ective, RoHS Directive	CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06 NFPA 79

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 If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using the INERTIA command.

Options

Robot Controllers

Compact and intuitive, Epson controllers make automation configuration easy. Designed for use with both SCARA and 6-Axis robots, Epson's lineup provides advanced servo control for smooth motion and precise positioning. With integrated options available such as Vision Guidance, Force Guidance, Conveyor Tracking and more, Epson controllers provide true solution-based expandability.



CONTROLLERS



RSO-B



Great performance at an affordable price



RC700A

Powerful feature set with ultra fast processing



RC700D

High-performance controller for our most advanced SCARA robots

Space-saving design with built-in controllers at an ultra low price

All-in-One

Advanced controllers to meet your automation needs

- Powerful performance, compact design

 built for space-constrained environments; able to
 support everything from simple to high-end robots
- Supports both SCARA and 6-Axis robots

 simplifies the lineup with common platforms
- Full lineup of both SCARA and 6-Axis controllers

-choose the one best suited for your application

Easy to configure/setup

-front access (RC90B, RC700A and RC700D); intuitive panel; consolidated controls, all on one side, for easy changeouts

- Advanced servo control system

 enables the robot to quickly perform smooth,
 precise motions
- Slots for optional components

 supports a wide variety of fully integrated options

ROBOT CONTROLLERS

All-in-One

Space-saving design, ultra low cost

- Supports TB-Series SCARA and VT-Series 6-Axis robots
- Comes standard with 110 V and 220 V power
- Use as standalone, PLC slave or with a PC
- Wide variety of integrated options including Vision Guide, IntelliFlex Feeding System, .Net connectivity, Ethernet/IP[®], DeviceNet[®], PROFIBUS and more



SYSTEM CAPABILITIES





Great performance at an affordable price

- Supports LSB-Series SCARA robots
- Use as standalone, PLC slave or with a PC
- Wide variety of integrated options including Vision Guide, Force Guide, IntelliFlex Feeding System, .Net connectivity, Ethernet/IP, DeviceNet, PROFIBUS, Expansion I/O, Conveyor Tracking and more



SYSTEM CAPABILITIES



ROBOT CONTROLLERS

RC700A

Powerful performance with ultra fast processing

- Supports G- and RS-Series SCARA and C- and N-Series 6-Axis robots
- Use as standalone, PLC slave or with a PC, as well as Modules
- Wide variety of integrated options including Vision Guide, Force Guide, IntelliFlex Feeding System, .Net connectivity, Ethernet/IP, DeviceNet, PROFIBUS, Expansion I/O, Conveyor Tracking and more





Controllers



High-performance controller for our most advanced SCARA robots

- Supports GX-Series SCARA robots
- Use as standalone, PLC slave or with a PC, as well as Modules
- Wide variety of integrated options, including Vision Guide, Force Guide, IntelliFlex Feeding System, .Net connectivity, Ethernet/IP, DeviceNet, PROFIBUS, Expansion I/O, Conveyor Tracking and more





Options

ROBOT CONTROLLERS

• SPECIFICATIONS

Model		All-in	n-One	RC	90B
Robot manipulator control	Programming language and robot control software	Epson Epson RC+	RC+ 7.x Express 1.x	Epson Epson RC+	RC+ 7.x - Express 1.x
	Joint control	Up to six (6) joints s Software AC	imultaneous control, servo control	Up to four (4) joints : Software AC	simultaneous control, S servo control
	Speed control	PTP motion: Programmable CP motion: Programm manually	e in the range of 1% to 100% nable (actual value to be v entered)	PTP motion: Programmabl CP motion: Programm manual	e in the range of 1% to 100% nable (actual value to be y entered)
	Acceleration/ deceleration control	PTP motion: Programmable Automatic CP motion: Prog manually	e in the range of 1% to 100% rammable (actual value to be / entered)	PTP motion: Programmabl Automatic CP motion: Prog manual	e in the range of 1% to 100% rammable (actual value to be y entered)
	Number of manipulators		1		1
Positioning control	manipulatoro	PTP (Point-To-Point)/	'CP (Continuous Path)	PTP (Point-To-Point)	/CP (Continuous Path)
Memory capacity		Maximum ob Point data area: 1, Backup variable (includes the memory area Approx. 4,0 (depends on the siz	ject size: 8MB 000 points (per file) area: Max. 400KB a for the management table) 00 variables ze of array variables)	Maximum ob Point data area: 1 Backup variable (includes the memory area Approx. 4,0 (depends on the si	oject size: 8MB ,000 points (per file) area: Max. 400KB a for the management table) 000 variables ze of array variables)
External input/ output signals	Standard Input Output	VT-Series: Input: 24/Output: 16 TB-Series: In: 18/Out: 12/ Hand: In: 6/Out: 4	Including 8 inputs, 8 outputs with remote function assigned; assignment change allowed	Input: 24 Output: 16	Including 8 inputs, 8 outputs with remote function assigned; assignment change allowed
(standard)	Standard I/O drive unit	-			_
Communication	Ethernet	1 ch	annel	1 ch	annel
(standard)	USB	1 բ	port	1	port
Option boards	I/O	-	_	Input: 24 per board Output: 16 per board	Maximum of 2 boards allowed
(special slot)	Analog I/O		_	1 ch	lannel
	Euromap 67	-	_	Input: 15 per board/	Output: 16 per board
	RS-232C		_	2 channels/board	Maximum of 2 boards allowed
	Fieldbus I/O slave	PROFINET PROFIBUS-DP DeviceNet CC-Link Ethernet/IP EtherCAT®	Maximum of 1 board allowed	1 channel/board PROFINET PROFIBUS-DP DeviceNet CC-Link Ethernet/IP EtherCAT	Maximum of 1 board allowed
	Pulse generator	-	_	4 axes/board	Maximum of 2 boards allowed
Option boards (PCI or PCIe slots)	Fieldbus I/O master	PROFIBUS-DP DeviceNet Ethernet/IP	_	1 channel/board PROFIBUS-DP DeviceNet Ethernet/IP	Maximum of 1 board allowed
Security	Passw accide	rord-based protection levels car ntal or unauthorized alteration c ł	n be set to restrict access to sor of control programs when multip Keeps a log of changes made to	ne parts of the Epson RC+ syst le operators need to have acce source code.	em, helping prevent ss to basic controls.
Safety features		Emergency stop switch / Safety Dynamic brake / Encoder cable Motor overload detection / Irreg Manipulator) detection / M Positioning overflow - servo err - servo error - detection / CPU check-sum error detection / C Driver Module / Relay welding de AC power supply voltage reduct detection / Far	/ door input / Low power mode / e disconnection error detection / jular motor torque (out-of-control dor speed error detection / ror - detection / Speed overflow l irregularity detection / Memory iverheat detection at the Motor etection / Over-voltage detection / ion detection / Temperature error n error detection	Emergency stop switch / Safet Dynamic brake / Encoder cabl Motor overload detection / Irreg Manipulator) detection / M Positioning overflow - servo er - servo error - detection / CPL check-sum error detection / C Driver Module / Relay welding d AC power supply voltage reduc detection / Far	y door input / Low power mode / e disconnection error detection / gular motor torque (out-of-control lotor speed error detection / ror - detection / Speed overflow J irregularity detection / Memory Dverheat detection at the Motor etection / Over-voltage detection / tion detection / Temperature error n error detection
Power source		AC 110 V to AC 220 V	/Single phase 50/60 Hz	AC 200 V to AC 240 V	/Single phase 50/60 Hz
Weight		Varies per 1	robot model	7.5	5 kg

CP motion: Programmable (actu	ual value to be manually entered)	CP motion: Programmable (actual value to be manually entered)		
2	4		1	
PTP (Point-To-Point)/	CP (Continuous Path)	PTP (Point-To-Point)/	'CP (Continuous Path)	
Maximum obj Point data area: 1, Backup variable a (includes the memory area Approx. 4,0 (depends on the siz	ect size: 8MB 200 points (per file) area: Max. 400KB for the management table) 00 variables te of array variables)	Maximum ob Point data area: 1, Backup variable a (includes the memory area Approx. 4,0 (depends on the siz	ject size: 8MB 000 points (per file) area: Max. 400KB 1 for the management table) 100 variables ze of array variables)	
Input: 24 Output: 16	Including 8 inputs, 8 outputs with remote function assigned; assignment change allowed	Input: 24 Output: 16	Including 8 inputs, 8 outputs with remote function assigned; assignment change allowed	
Input: 24 Output: 16	Per drive unit	-		
1 cha	annel	1 ch	annel	
1 p	port	1 port		
Input: 24 per board Output: 16 per board	Maximum of 4 boards allowed	Input: 24 per board Output: 16 per board	Maximum of 4 boards allowed	
1 cha	annel	1 channel		
Input: 15 per board/0	Output: 16 per board	Input: 15 per board/Output: 16 per board		
2 channels/board	Maximum of 2 boards allowed	2 channels/board	Maximum of 2 boards allowed	
1 channel/board PROFINET PROFIBUS-DP DeviceNet CC-Link Ethernet/IP EtherCAT	Maximum of 1 board allowed	1 channel/board PROFINET PROFIBUS-DP DeviceNet CC-Link Ethernet/IP EtherCAT	Maximum of 1 board allowed	
4 axes/board	Maximum of 4 boards allowed	4 axes/board	Maximum of 4 boards allowed	
1 channel/board PROFIBUS-DP Maximum of DeviceNet 1 board allowed Ethernet/IP		1 channel/board PROFIBUS-DP DeviceNet Ethernet/IP	Maximum of 1 board allowed	
Password-based pr accidental or unauth	otection levels can be set to restrict acce norized alteration of control programs wh Keeps a log of changes	ess to some parts of the Epson RC+ sys en multiple operators need to have access made to source code.	tem, helping prevent ass to basic controls.	
Emergency stop switch / Safety Dynamic brake / Encoder cable Motor overload detection / Irregular m detection / Motor speed error dete error - detection / Speed overflor irregularity detection / Memory che detection at the Motor Driver Mo Over-voltage detection / AC power s Temperature error detect	door input / Low power mode / e disconnection error detection / otor torque (out-of-control Manipulator) ction / Positioning overflow - servo w - servo error - detection / CPU eck-sum error detection / Overheat odule / Relay welding detection / supply voltage reduction detection / tion / Fan error detection	Emergency stop switch / Safety Dynamic brake / Encoder cable Motor overload detection / Irregular m detection / Motor speed error dete error - detection / Speed overflo irregularity detection / Memory ch detection at the Motor Driver Mk Over-voltage detection / AC power Temperature error detect	/ door input / Low power mode / e disconnection error detection / notor torque (out-of-control Manipulator) ection / Positioning overflow - servo w - servo error - detection / CPU eck-sum error detection / Overheat odule / Relay welding detection / supply voltage reduction detection / etion / Fan error detection	
AC 200 V to AC 240 V/	Single phase 50/60 Hz	AC 200 V to AC 240 V	/Single phase 50/60 Hz	
11	kg	11	kg	

RC700A

Epson RC+ 7.x

Epson RC+ Express 1.x (not supported with N- and RS-Series)

Up to six (6) joints simultaneous control,

Software AC servo control

PTP motion: Programmable in the range of 1% to 100%

CP motion: Programmable (actual value to be manually entered)

PTP motion: Programmable in the range of 1% to 100%; Automatic

RC700D

Epson RC+ 7.x

Epson RC+ Express 1.x

Up to six (6) joints simultaneous control,

Software AC servo control

PTP motion: Programmable in the range of 1% to 100%

CP motion: Programmable (actual value to be manually entered)

PTP motion: Programmable in the range of 1% to 100%; Automatic

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Options

Development Software: Epson RC+ and Epson RC+ Express

Epson RC+ and Epson RC+ Express offer the ultimate selection of powerful, easy-to-use features, reducing the time needed to develop automated robot solutions. Epson RC+ advanced software includes fully integrated options such as Vision Guidance, Force Guidance, Conveyor Tracking, Parts Feeding and more. Epson RC+ Express features an easy-to-learn, block-style robot teaching environment, ideal for new users with little or no coding experience.



SOFTWARE





Intuitive, no-code, visual-based robot teaching environment

Epson RC+

Comprehensive suite of advanced tools and features in one convenient, integrated environment

The perfect choice for automation experts and new users alike, Epson makes it easy to create an array of industrial robot solutions with two powerful development environments.

- Software options for simple or complex applications
- Easy-to-learn programming (Epson RC+) or no-code programming environment (Epson RC+ Express)
- Intuitive and easy to learn

- 3D simulator
- Quick deployment of your robotic system

SOFTWARE

Epson RC+ Express

Get your robot system up and running fast

Epson RC+ Express is a simple, visual-based teaching environment built for users who are new to robot automation and have little to no programming experience.

NO-CODE, EASY-TO-USE ROBOT TEACHING ENVIRONMENT

Get the power and flexibility of a scripted-text language with an easy-to-use robot programming environment. Epson RC+ Express is designed for use with Epson SCARA and 6-Axis robots, from the All-in-One T-Series and VT6L to the highestperformance G-, GX- and C-Series.



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SIMPLE TO NAVIGATE

Clear, intuitive, visual user interface makes it easy to learn and manage key functions, such as jogging, gripper control and motion. Take advantage of easy jog when manipulating 6-Axis robots, move effortlessly between linear and joint motion, and easily align the robot tool face to different planes with a single click.

Robot recovery has never been easier—by using the rollback feature after an event, the robot can be returned to a previous known position, allowing an easy restart to the system.



EXTENDED CAPABILITIES

Experienced Epson RC+ users can take advantage of the extended SPEL+ commands to simplify programs and complete more advanced tasks, while retaining the simple yet powerful Epson RC+ Express interface.

The optional Epson RC+ Project Link allows users to create advanced functions—such as Vision Guide or Force Guide—in Epson RC+ and then bring them into Epson RC+ Express programs. Additionally, Epson RC+ Express commands can be translated to the SPEL+ language, allowing easy transition from Epson RC+ Express to Epson RC+.



SOFTWARE

QUICK SETUP

Epson's proprietary Focus Assist technology provides quick-teach tools with auto-generated fields for fast application setup. Visual indicators highlight missing inputs to complete the function, such as quickly teaching a point. Wizards take users step-by-step to easily teach tools and pallets.

Once running, programs can be protected to reduce the risk of accidental program changes, all while allowing points to be re-taught to account for normal production variability.



COMMON APPLICATION TEMPLATES

Quickly create common applications, such as pick-and-place or palletizing and depalletizing, with premade, ready-to-use template programs. Learn on your own using the online tutorials with step-by-step instructions for Epson RC+ Express.

Templates are even provided for the optional Project Link, which allows the use of more advanced options, such as Vision Guide, Force Guide and Parts Feeding.



SCARA Robots | (

3D SIMULATOR

Conveniently program and fine-tune applications with the built-in 3D simulator before your hardware has even arrived. Teach points, create motion commands and even simulate inputs and outputs to develop your application offline.

Rehearsal Mode allows the robot to be operated at low power and speed, and if an unexpected motion or action occurs, the robot can be stopped by lifting your finger from the touchpad, reducing risk of damage to the robot and the workcell.



TABLET-BASED WINDOWS OS ENVIRONMENT

Compatible with touchscreen devices to easily create robot applications. Drag and drop functions and easily change their order by sliding them around. Cut and paste commands and points to speed application development. Use sliders to easily configure the robot speed to meet your throughput requirements.



Options

SOFTWARE

Epson RC+

The ultimate choice for robot system development

Epson RC+ offers a powerful set of tools and features that redefine automation efficiency. A comprehensive solution for virtually any application, Epson RC+ provides seamless integration, with all components working together in one integrated environment.

All-inclusive development environment

- Projects
- Robot manager
- Task manager
- Run window
- Operator window
- Jog and teach window

- I/O monitor
- Offline development
- Wizards
- Project explorer
- Toolbar customization
- 3D simulator

Auto-assist makes editing easier than ever

Epson RC+ includes powerful editing capabilities to minimize mistakes and streamline program development. In addition to basics such as cut, copy and paste, it also includes Syntax Assist, auto-indent, color-based command usage, comment blocks, indent/outdent, find/replace and more.

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- Color-based editor where keywords are blue, parameters are black, comments are green and incorrect syntax is red.
- Automatic indenting of code contained in a function block for easy readability.
- **Syntax Assist** helps users type or select the proper syntax for commands and their associated parameters.

INTEGRATED DEBUGGER

Easily identify issues in record time

The integrated debugger offers many clever ways to check the status of your program or identify issues you may find while running it. The Epson debugger allows you to check specified variables, view the value of those variables in real time, set break points, perform a single-step execution or jump over certain steps. You can also step into a function to view more details.



Options

6-Axis Robots

3D SIMULATOR

Build and fine-tune your application before hardware setup

Take automation development to the next level with a virtual test run. Epson's workcell simulator means you can program your workcell, even before your hardware has arrived. See a 3D simulation of your application in action—in real time. You can even add additional components that may be a part of the workcell, such as a table, feeder or various types of guarding. Add a tool to the robot's arm and implement your program to examine the efficiency of the application.



Need to examine how multiple robots might affect productivity? Give it a test run with a detailed, simulated workcell.

Full-featured simulator supports up to three robots and peripherals such as guarding, tools, parts and more.

Cycle-time calculation

 Calculate cycle time based on real application execution

Offline application checking

- Program can be created and debugged from standalone PCs
- Debugged programs can be rolled out directly to plant floor workcells

Machine vision simulation

Machine vision image processing input can also be used within simulations

Record and playback functions

Recording and playback functions make it easy to include still images and movies in presentations

Clearance checking

Choosing the right robot is easy because you can check all necessary workcell and peripheral equipment



Vision Guide simulation supported with Epson RC+ 7.0

SPEL+ ROBOT LANGUAGE

Epson's SPEL+ is a powerful yet easy-to-learnand-use programming language for robot automation applications. With 500+ commands and statements, including motion functions, I/O control, variables and data types, program control and more, SPEL+ can be used for both complex and simple applications.

unction main	
Motor On	*turn motor power on
Power High	*Power mode set high
Speed 100	*Speed 100%
Accel 100, 100	*Acceleration/Deceleration 100%
If Sw(partok) = On Then	*Checking if good part
Jump goodparts	*move arm to goodpart pile
Else	
Jump badparts	*move arm to bad part pile
Endlf	

INTEGRATED ENVIRONMENT

One source, one comprehensive solution

Epson software offers easy integration of Epson robots with various automation options, including Vision Guide, Force Guide, IntelliFlex Parts Feeding, Conveyor Tracking and more. Built as a comprehensive solution for any given application, it provides seamless integration, allowing all components to interface with one another in a single environment.



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Vision Guide and Force Guide are just two of the many integrated options available with Epson RC+.

Integrated Solutions

Enhance your robot automation solution with integrated options such as Vision Guide, Force Guide, IntelliFlex Parts Feeding and more. These powerful solutions make it easy to quickly build various applications without having to worry about peripheral communication setups and development from multiple environments. Instead, you can focus on maximizing the efficiency of your application.



SOLUTIONS



Vision Guide

Integrated vision guidance with easy configuration and collaboration



IntelliFlex

High-performance parts-feeding solution with easy integration



Force Guide

Intuitive robot force guidance for highprecision performance

VISION GUIDE

Vision guidance made easy

Epson Vision Guide makes precision robotic guidance easy to use. Fully integrated within the Epson RC+ development environment for easy configuration and calibration, this intuitive solution features a pointand-click interface that makes it simple for users of all levels. It also features wizards and auto calibration methods, plus a combination robot/vision simulator for rapid offline testing. With a common software environment for both robots and vision guidance, Epson Vision Guide allows for fast development and simplified maintenance. An efficient and versatile solution, it also includes tools for inspection, gauging, barcode reading and much more.



True robot geometry-based calibration

Unlike common mapping-based calibration, Epson Vision Guide uses a powerful geometric-based calibration solution to improve the precision of camera-to-robot-coordinate system translation. Reduce calibration time and improve consistency with the integrated calibration wizard and easy step-by-step instructions. Multiple calibrations for both 6-Axis and SCARA robots, including fixed-downward, fixed-upward and those with mobile-joint-mounted cameras, are supported.



Options

VISION GUIDE

Versatile tool set



Full-featured, integrated solution


• SPECIFICATIONS

System		CV2SA	CV2HA	PV1				
Robot controller		RC700A, RC90, RC90B, TB-Series, VT-Series						
Cameras supported (Epson cameras only)		GigE: Mono (0.3 MP, 1.3 MP, 2 MP, 5 MP, 10 MP and 20 MP) and Color (2 MP, 5 MP, 10 MP and 20 MP) USB: Mono (0.3 MP, 1.3 MP and 5 MP) and Color (1.3 MP, 5 MP)						
Vision tools		Locate: Geometric, Correlation, Blob, Edge, Polar, ArcFinder, LineFinder, BoxFinder, CornerFinder, Frame, Line, Point and Contour Count: Blob, Correlation, Geometric Inspect: Blob, DefectFinder, Line, LineInspector, ArcInspector and ColorMatch Read: CodeReader and OCR Image: ImageOp and Text						
Quantity of connectable ca	meras	Up to 6 c (2 USB and 4 G	ameras ìigE cameras)	Up to 8 GigE cameras				
Image processing speed		Standard type	High-speed type	N/A				
Safety standards		CE, U	L, KC	N/A				
Dimensions W x D x H (exc	luding rubber feet)	232 mm x 175	N/A					
Operating temperature and humidity		5 – 40 deg C, 20% – 8	N/A					
Direction of installation		Horizontal	N/A					
Power source voltage		DC 19 V	N/A					
Rated electric current		11.57 A (at 19 V DC) -	N/A					
Weight		2.1	N/A					
Interface (connection)	Ethernet (for communication with Robot Controller)	RJ45: 4 ports (1000 Mbps); Powe can connect to						
	Ethernet (for GigE camera)	RJ45: 4 ports (1000 Mbps); Powe	_					
	USB	USB 2.0: 4 ports (for USB Camera,	USB Memory, Mouse, Keyboard)	N/A				
	Monitor connection	VGA: 1 port, DVI-D: The 2 ports display the sar						
	CON1, CON2	Not ava						
CV2 standard accessories		Mounting plates (1 set), pow connector cap f	N/A					

INTELLIFLEX

The smarter parts singulation solution

Powered by Epson robots, IntelliFlex Software and Vision Guide, the IntelliFlex Feeding System delivers a simplistic feeding solution to accommodate a wide variety of parts. Integrated with Epson RC+ Development Software, the IntelliFlex Feeding System offers easy setup and configuration. Its point-and-click interface helps reduce the typical development time required for advanced applications. With four feeder sizes available (IntelliFlex 80, 240, 380 and 530), the system can accommodate part sizes ranging from 3 mm to 150 mm. The IntelliFlex system also offers intelligent auto-tuning for fast setup and flexible parts changeover. And, multi-axis vibration technology provides optimized parts control and singulation.





Point-and-click setup and configuration

Fully integrated with the Epson RC+ Development Software, the IntelliFlex Feeding System makes setup and configuration easier than ever. Featuring a point-and-click interface, it can help reduce development time for advanced applications, often taking it from weeks down to days.

EPSON SYSTEM SETUP

1.	 Vision Programming Built-in robot-to-vision calibration and point-and-click programming
2.	 Parts Tuning Automatic parts tuning with vision feeder integration
3.	Parts Control Adjustment

 Configuration wizard for defining part separation pickup area and more

TYPICAL SYSTEM SETUP

1.	 Feeder Communications Low-level protocol using feeder command set
2.	 Feeder Tuning Getting parts to move properly
3.	 Vision Setup and Calibration Calibrating vision system to robot
4.	Vision ProgrammingFinding parts reliably
5.	System Programming
•	Vision coordination

Turn this	Into this	With this.

With multi-axis vibration technology, designed to optimize parts control.

Precision parts calibration with smart auto-tuning

Epson RC+ Development Software also features an intuitive wizard to guide users through customized calibration. Step by step, this wizard automatically determines the exact values needed for optimum tuning and calibration.

Part pickup regions maximize parts throughput



Parts calibration (tuning) wizard reduces tuning time



IntelliFlex Feeding System

FLEXIBLE FEEDER SPECIFICATIONS

Model Name	IntelliFlex 80	IntelliFlex 240	IntelliFlex 380	IntelliFlex 530				
Model number	RIF80	RIF240	RIF380	RIF530				
Part size dimensions	3 mm – 15 mm	5 mm – 40 mm	15 mm – 60 mm	30 mm – 150 mm				
Max. surface load per feeder	0.05 kg	0.40 kg	1.5 kg	2.0 kg				
Communication	Ethernet (TCP/IP)							
Power supply	24 V/6 A 24 V/8 A 24 V/20 A 24 V/2							
Vibration platform (length x width)	65 mm x 52 mm	254 mm x 325 mm	427 mm x 371 mm					
Footprint (length x width x height)	320 mm x 65 mm x 140 mm	300 mm x 171 mm x 132 mm	499 mm x 257 mm x 307 mm	600 mm x 372 mm x 320 mm				
Compatible robot series		SCARA: G-/LS-B-/RS 6-Axis: C-/N-/	-, TB-, GX-Series VT-Series					
Vision integration		Vision Guide PV	'1 and CV2					
Software Features								
Max. # of feeders supported per robot controller (All-in-Ones)		2						
Max. # of feeders supported per robot controller (RC700A, RC700D & RC90B)	4							
Max. # of robots sharing the same feeder at the same time (RC700A with drive units only)	2							
Max. # of robots sharing the same feeder at the same time (RC90B & All-in-Ones)	1							
Max. # of unique parts per feeder running at the same time		4						
Max. # of parts per development environment project (Epson RC+)		32						
Purge software function (IntelliFlex 80 requires Purge Calibration)		Support	ted					
Options								
Purge hardware		Optional hardwa	are required					
Integrated backlight options		White/Red/Infrared	d/Green/Blue					
Tray configuration options	ESD (Anti-static) Anti-stick Anti-rolling Medical Black							
Hopper sizes	0.16 L	2 L/3 L	10 L	15 L				
What's in the box	Flexible Fe	eeder, IntelliFlex Software, Po	ower and Communication C	Cables				
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							

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FORCE GUIDE

Intuitive robot force guidance for high-precision performance

Powered by proprietary Epson Quartz Technology, Epson Force Guide enables Epson robots to detect six axes of force with precision down to 0.1 N. Driven by real-time servo system integration, Force Guide delivers fast, tactile feedback to guide robots for high-precision parts placement. Easy to set up, Force Guide features a point-and-click interface with pre-configured solutions and built-in objects, reducing the development time for precision applications.



Advantage Epson

Drawing on our global expertise in robotic solutions, Epson created Force Guide as a tool to achieve higher productivity in automated manufacturing processes. Epson Force Guide features proprietary Quartz Technology, which provides remarkable rigidity and powerful performance, allowing customers to complete automation tasks that were previously not possible.

- Epson Quartz Technology
- High rigidity
- Powerful performance

Force Guide applications

Force and torque sensors are an increasingly significant component for material testing, assembly, development and quality assurance. Because of their accuracy, versatility and reliability, they are being used by more and more companies around the world. Epson Force Guide provides a wide range of automation possibilities:





Parts and connector insertion

With Epson Force Guide, parts and connector insertion can be easily automated for everything from pin-in-socket insertion to highprecision valve assembly. Epson sensors detect misalignment. And, because of high sensitivity, the part or connector is easily inserted, damage-free.

Screw driving

Thanks to real-time force/torque feedback, the smallest of screws can be easily tightened, even when there is deviation in angle or location. By detecting the force, the robot can successfully execute the task while preventing any stripping of the threads.



Delicate parts handling

Because of its tight integration with the servo system, Epson Force Guide makes it easy to handle glass and other delicate materials. Our quartz-based sensors allow for soft placement in applications that would otherwise result in breakage of glass or other fragile materials.





Grinding/polishing

Deburring and grinding of parts to accurately remove excess flash is possible with Epson Force Guide, despite deviations in casting or dimensions. The tool remains on its path, due to real-time force feedback. Similarly, polishing can be automated so as to keep the tool pressing with constant and precise force to the part.

Gear meshing

On assembly operations, Epson Force Guide provides the robot with the tools and data necessary to align and match the faces of various components, including multiple gears. Options

Force Guide tools

Pre-configured force guidance object tools provide a simple method for creating robot force-based

motions and applications.







FOLLOW

Move the robot based on the force detected

PRESS Continue to apply the necessary force to the object to complete

placement of the part

Intuitive interface

Fully integrated in the Epson RC+ development environment, Epson Force Guide applications can

be created and tested in an easy-to-use point-and-click fashion.



with specific Force Guide tools.

Force Guide Sequence

The Force Guide sequence flowchart provides a simple drag-and-drop mechanism for defining the force guidance operational flow (ordering of steps). This reduces the amount of programming required for Force Guide applications.

Object Properties and Results

Users can input and adjust force and torque data. The software automatically generates associated results based on input parameters.

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Real-time Force Guide monitoring

Epson Force Guide provides real-time graphical representations of both force and torque, allowing users to see and adjust force guidance based on object parameters. Epson Force Guide also provides visual feedback and records and displays data logs to ensure operational reliability.

SPECIFICATIONS

Model No.		S250N	S250L	S250P	SH250LH	S250H	S2	503	S2506	S25010		
Compatible robot	S ¹	C4 $\begin{pmatrix} C8 \\ (Standard, \\ Clean/ \\ ESD \\ C12XL \end{pmatrix}$ $\begin{pmatrix} C8 \\ (Protected) \end{pmatrix}$ $N6$ $N2$ $RS-Series$ $\begin{pmatrix} G3 \\ GX4 \\ GX8 \end{pmatrix}$ $G6 \\ GX4 \end{pmatrix}$								G10 G20		
Cabling routing		External Internal Internal Internal Internal Internal External Internal							Internal	Internal		
Dimensions (diam	ieter x height)	80 mm x 49 mm	88 mm x 49 mm	88 mm x 66 mm	85 mm x 48 mm	80 mm x 49 mm	80 x 52	mm mm	80 mm x 52 mm	80 mm x 52 mm		
Weight ²		460 g	520 g	680 g	460 g	460 g	62	0 g	620 g	640 g		
Compatible robot		1		RC700A, RC	C700D (GX4	and GX8)		1				
Measured degrees of freedom			6-Axis: 3 force components (Fx, Fy, Fz) and 3 torque components (Tx, Ty, Tz)									
Rated load	Force (Fx, Fy, Fz)	250 N										
Torque (Tx, Ty, Tz)							Nm					
Maximum allowable	Force (Fx, Fy, Fz)					1,000 N						
static load	Torque (Tx, Ty, Tz)					36 Nm						
Measured	Force (Fx, Fy, Fz)				± 0.1 N or	r less (5 sec,	25 °C)					
resolution ⁴	Torque (Tx, Ty, Tz)				± 0.003 Nm	or less (5 se	ec, 25 °C)					
Measurement acc	uracy⁵	± 5% RO or less										
Operating	Temperature	-10 °C ~ 40 °C										
environment	Humidity	10% – 80% relative humidity, no condensation										
Protection class		IP20	IP20	IP67	IP20	IP20	IP20	IP20	IP20	IP20		
What's in the box				Fo	rce Sensor, Fo	orce Control	Board, Cabl	es				
Safety standards					CE Mark: EN	//C Directive	, KC Mark					
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					ו ו.com							

1 Robots not supported: G1, LS-Series, TB-Series, EZ Modules.

2 Weight includes force sensor and mounting flange; does not include control board and cables.

3 Controllers not supported: RC90B and All-in-One.

4 The measurement resolution including the noise level and time drift (25 °C), when the measurement time is 5 seconds.

5 The measurement accuracy when the measurement time is 6 minutes.

Options

From Vision Guide and Force Guide to GUI Builders, teach pendants conveyor tracking and fieldbus I/O, Epson offers the options you need to enhance your robot system.



SPECIFICATIONS

Controller Options				
	All-in-One (TB- and VT-Series)	RC90B (LSB-Series)	RC700A (G-, RS-, C-, N-Series)	RC700D (GX-Series)
Teach pendant (TP2)	•	•	•	_
Teach pendant (TP3)	٠		•	•
Conveyor tracking		•	•	•
PG cards (external axis control)		•	•	•
Emergency stop switch	•	٠	•	•
RS-232C cards		•	•	•
I/O expansion cards		•	•	•
Fieldbus I/O (slave)	•	•	•	•
Fieldbus I/O (master)	•	٠	•	•
I/O cable kit		•	•	•
Analog 1/0		٠	•	•
Euromap 67		•	•	•
Force Guide		—	•	•
Parts Feeding	•	•	•	•

Software Options

	All-in-One	RC90B	RC700A	RC700D
Vision Guide (7.0)	•	•	•	•
RC+ 7.0 API	•	•	•	•
ECP	•	•	•	•
GUI Builder 7.0	•	•	•	•
OCR	•	•	•	•
Add-On Instructions	•	•	•	•

Robot Manipulator Options

	T3-B/ T6-B	LS3-B/ LS6-B/ LS10-B/ LS20-B	RS3/ RS4	G1	GX4/ GX8	G6/ G10/ G20	N2/N6	C4	C8/ C12XL	VT6L
External wiring units	_	—	—	_	•	•	_		—	٠
Tool adapters/ISO flange	•	•	٠	•	•	•	•		•	٠
Brake release units	_	_	_	_	_	_	•	•	•	_
Power and signal cables	_	•	٠	•	•	•	•	•	•	٠
Camera mounting bracket	•	•	•	_	•	•	•	•	•	•
External drive units	_	_	٠	•	_	•	_/●	•	•/	_
UL 1740	—	-	•	•	•	•	_	•	•	—

Controllers

GUI Builder

COMPATIBLE CONTROLLERS



Easily create a Graphical User Interface (GUI) for operators

- Fully integrated within Epson RC+ to reduce overall development time
- Create GUIs without Visual Studio or other third-party software tools
- Create and debug GUI forms from your Epson RC+ Project
- Form and Control Events are executed as SPEL+ tasks
- Perfect for novices and experts alike
- Works with RC700A, RC700D, RC90B and All-in-One controllers



The GUI Builder Window

GUI Builder has five main areas of use for creating and modifying user GUIs. These include: Toolbar Buttons, Design Area, Forms Explorer, Property Grid and Events Grid.

GUI Builder area definitions

DESIGN AREA

Where forms are displayed at design time.

Each opened form is displayed on its own tab. You can easily switch between forms by clicking on the tab or double-clicking the form in the Forms Explorer.



Steps to Use GUI Builder

STEP 1

Create a new form, click the Button control from the GUI Builder toolbar and drag it to the form.



STEP 3

Add more graphic components on your form and associated SPEL+ codes as required for your application.



STEP 2

Double-click the button and the Code Editor will appear. Add the SPEL+ code you want to execute when the button is clicked from your application.



STEP 4

Run the application from the Epson RC+ Run window or set it up to have the GUI come up automatically. You can also bring up Epson RC+ dialogs like the I/O monitor shown here.

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TOOLBAR BUTTONS

Contains the various controls to be put on a

GUI Builder form. Many of the common controls are supported such as Button, Label, Textbox, Radio Button and Checkbox. However, there are also some controls unique to Epson that help reduce development time for items routinely needed for robot systems. Some of these unique controls include the Video Box control (to display the Vision Guide image) and the LED control (to interface with the Epson robot I/O).

FORMS EXPLORER

A tree that contains each form for the current project and its associated controls. When a new form or control is created, it is added to the tree. Double-clicking on a form opens the form in its own tab in the design area.

PROPERTY GRID

Used to display and edit forms and control

properties. When you select a form or control, the associated properties are displayed in the grid. You can edit the values for properties, thus changing the characteristics of the specific control.

EVENTS GRID

Used to display and change events for the associated form or control. Each event has a user function (written in SPEL+ code) that is called when the event occurs. This gives the user complete flexibility to program what happens when specific events occur. Controllers

RC+ 7.0 API

COMPATIBLE CONTROLLERS

All-in-One RC90B

RC700A RC700D

Program and execute robot applications in a familiar MS Windows OS environment

- Robots can be controlled using Visual Basic[®], Visual C++[®], Visual C#[®], LabVIEW[™] and other third-party programming languages
- Robot status and variable values can be captured
- Vision Guide integration for easy image display on user GUIs
- Third-party .Net interface and database design tools can also be used for program development



The following Epson RC+ windows and dialogs can be called from within a .Net application:

- Robot Manager
- I/O Monitor
- Task Manager
- Maintenance Dialog
- Simulator
- Force Monitor



LabVIEW

Add-On Instructions (AOI) for Allen Bradley®

COMPATIBLE CONTROLLERS

Visual C®



For integration with systems using Allen Bradley PLC-based programming¹



- Ideal for both basic and complex programming tasks—initiates simple solutions or highly structured programs, all with ladder-logic programming
- Single point of control machine control via a PLC

1 An Ethernet/IP board is required to enable communication between the robot controller and the programmable logic controller.

Conveyor Tracking

COMPATIBLE CONTROLLERS

RC700A

RC700D

Precision tracking for high-productivity pick-and-place operation

RC90B

- Supports vision- or sensor-based conveyor tracking
- Vision Guide software detects moving parts for pick-and-place handling
- Multi-conveyor, multi-tool setups are supported
- Automate manual kitting/packaging tasks and help maintain productivity with continuous conveyor operation; ideal for product assembly



COMPATIBLE CONTROLLERS Fieldbus I/O (Master) RC90B RC700A RC700D All-in-One Bidirectional high-speed peripheral connectivity Support for DeviceNet, PROFIBUS and Ethernet/IP networked peripherals (1,024-point I/O) Requires user PC for master board DeviceNet Must be connected to robot controller during operation Ether**CAT** COMPATIBLE CONTROLLERS Fieldbus I/O (Slave) RC700A All-in-One RC90B EtherNet/ High-speed peripheral connectivity PIRIOIFI Support for DeviceNet, PROFIBUS, CC-Link®, Ethernet/IP, EtherCAT and PROFINET® networked peripherals (256-point I/O) COMPATIBLE CONTROLLERS **Teach Pendant TP2** All-in-One RC90B RC700A Easy-to-use pendant Universal design ensures ease of use for both right-handed and left-handed operators COMPATIBLE CONTROLLERS **Teach Pendant TP3** All-in-One RC700A RC700D Powerful pendant for both teaching and robot operation 10" color touchscreen panel 1280 x 800 high-definition screen resolution User-friendly GUI Ability to make robot parameter changes High-speed test mode IP65-rated enclosure is sealed against oil and dust for reliable operation in adverse conditions Shock-resistant construction helps protect unit from impact damage Universal design ensures ease of use for both right-handed and left-handed operators

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Options

SCARA Robots

6-Axis Robots

Controllers

Epson RC+ Software | Integrated Solutions



Optical Character Recognition (OCR) of text on parts and labels

All-in-One

- For use with optional Vision Guide system
- Enables you to specify the font, font size and number of characters of text that you want to read from an image
- A font creation function lets you create SEMI fonts and user-defined fonts from imaged characters or ASCII conversion files

PG Motion System

COMPATIBLE CONTROLLERS

RC700A

RC90B

RC700A

RC700D

Tool

RC700D

Control peripheral devices for fully integrated process automation*

RC90B

- Epson RC+ Software and pulse generator (PG) cards enable control of multiple third-party drives and motors
- PG robots and standard Epson RC+ system robots can be operated simultaneously and controlled using the same commands
- PG cards can be used to control X/Y tables, slides, rotary tables and a wide range of other production/inspection line peripherals
- Each PG card has 4 channels and can support from 1 to 4 robots; up to 4 cards can be installed on the RC700A

*Drivers and motors for third-party devices not included.



RC700A DU Drive Unit

Control multiple robots with a single RC700A controller

Emergency Cable Kit





I/O Cable Kit

COMPATIBLE CONTROLLERS RC90B RC700A RC700D

Expanded Serial port connectivity

2-port RS-232C cards to connect to Serial interface devices

A wide range of I/O cables and connectors are available

I/O Expansion Cards

COMPATIBLE CONTROLLERS

RC700D



24 inputs/16 outputs per board



Options

SCARA Robots

6-Axis Robots

Controllers

Epson RC+ Software | Integrated Solutions

External Wiring Units

Simplifies wiring when mounting end-effector options

- Enables easy, on-site connection of external wiring by users
- Ideal for connecting Vision Guide system camera cables or other wiring



VT6L

C4L

C12

Tool Adapters/ ISO Flanges

Enhances handling/processing versatility and simplifies end-effector changes



T6-B

C8XL

T3-B

C8L

VT6L

COMPATIBLE ROBOT MANIPULATORS

COMPATIBLE ROBOT MANIPULATORS

Brake Release Units

Releases brakes so robot arm can be moved by hand when power is off

Euromap 67 Interface

Epson solution complies with Euromap 67, the standard for connection between injection molding and robots







n camera cables or

RS4

C8

C12XL

Certified Epson Robots Training Courses

Epson offers a wide variety of high-quality, certified courses designed to help you learn how to quickly and effectively program and operate our robot and vision products. Students can attend courses online or in-person at our Epson Training Center in California or at any of our regional Certified Training Centers. All courses are taught by Epson-certified instructors in a structured environment designed for hands-on learning.

Available Courses

Epson RC+ Core 1 Robot Training

Core 1 provides in-person instruction and hands-on labs to get students quickly comfortable using the Epson RC+ environment and Epson SPEL+ programming language, which is used on all Epson SCARA and 6-Axis robots.

Epson RC+ Core 2 Advanced Robot Training

Core 2 focuses on integration of Epson robots into today's complex automation systems. Advanced use of motion control, logic and integration are emphasized in this two-day course.

Contact Information

U.S. and Canada Epson Robots 3131 Katella Ave. Los Alamitos, CA 90720

epson.com/robottraining



Epson Vision Guide Training

Designed to get users up and running with the Epson Vision Guide system to create vision sequences for robot motion guidance, inspection and gauging. In this two-day course, students will learn how to configure vision tools and objects and perform calibrations.

Epson RC+ Express No-Code Robot Training

Epson RC+ Express training provides students with hands-on experience creating robotic applications using the latest no-code teaching environment from Epson. This one-day course is ideal for users who are new to automation.

Options



Epson Business Solutions

Epson is a leading provider of innovative technology solutions that help businesses succeed. We partner with you to best meet your specific needs, focusing on:

- Improved productivity
- World-class customer service and support
- Cost-effective, high-quality solutions
- A commitment to the environment

Discover how Epson can help you work toward the future. www.epson.com/forbusiness

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 www.epsonrobots.com



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