EPSON®

ROBOT SPECIFICATIONS CATALOG



EPSON®

Epson Business Solutions

Driven by a relentless pursuit of innovation and market leadership, Epson empowers organizations to achieve their unique goals through a wide breadth of precision-engineered solutions. With a full suite of efficient and compact products ranging from printers to projectors and robots to microdevices, Epson is uniquely positioned to provide enduring partnerships and world-class expertise to those we serve every step of the way.



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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.

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

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

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

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

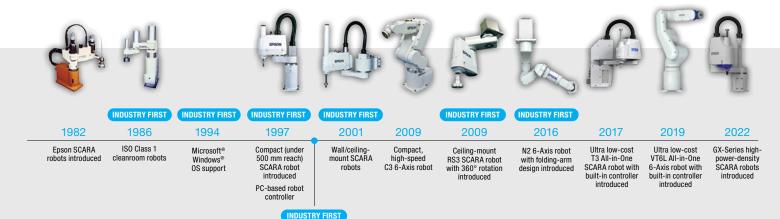


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Meet Epson's Lineup of Award-Winning SCARA and 6-Axis Robots

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, high-performance 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
- Consumer 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:

Machine tending

Assembly

Packaging

Inspection and testing

- Pick and place
- Screwdriving
- Finishing Grinding

- Material handling
- Dispensing
 - Palletizing
 - Lab automation
- Kitting/Tray loading

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

BSON

TB-Series All-in-One

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



LSB-Series

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.

EPSON 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



T3-B

All-in-One design is the ultimate slide alternative



T6-B

Higher payload and longer reach at an incredible value



TB-SERIES ALL-IN-ONE SPECIFICATIONS

		Т3-В	T6-B	
Arm length	Arm #1 + #2	400 mm	600 mm	
Repeatability	Joints #1, #2	±0.020 mm	±0.040 mm	
D. J. J.	Rated	1 kg	2 kg	
Payload	Maximum	3 kg	6 kg	
Standard cycle time¹		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).



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The ultimate slide alternative

- Arm length of 400 mm
- Easy to install
- Built-in controller
- Comes standard with 110 V and 220 V power
- No battery required for encoder



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		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 NEDA 79 (2007 Edition)





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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)	

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).

6-Axis Robots

Controllers

| Epson RC+ Software | Integrated Solutions |

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.

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



SB-SERIES

SCARA ROBOTS



Fast, compact and low cost



Great performance at an affordable price



LS10-B

Powerful
performance and
a large payload at
an affordable value



_S20-B

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 Maximum	Rated	1 kg	2 kg	5 kg	10 kg
	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).





Fast, compact and low-cost

- Arm length of 400 mm
- Small footprint
- Built-in camera cable
- Cleanroom ISO Class 4 models available



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		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)	





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Low cost and high performance

- 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		±0.010 deg					
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	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•m²					
moment of inertia ²	Maximum		0.120 kg•m²					
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	Standards CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)							

6-Axis Robots

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.

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



SPECIFICATIONS

		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•m²					
moment of inertia ²	Maximum		0.300 kg•m²					
Joint #3 downward force			200 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)						





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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		Tab	letop				
Arm length	Arm #1 + #2	800 mm	1,000 mm				
Weight (cables not included)		48 kg	51 kg				
Repeatability	Joints #1, #2	±0.02	25 mm				
	Joint #3	±0.0	±0.010 mm				
	Joint #4	±0.0	10 deg				
Max. motion range	Joint #1	±133	2 deg				
	Joint #2	±152	2 deg				
	Joint #3 Std	420) mm				
	Joint #3 Clean	390) mm				
	Joint #4	±36	0 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		25	50 N				
Electric lines		15 (15-Pin: D-Sub), 9 (9-Pin:	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/Clean	Standard/Cleanroom ISO Class 4				
Available controllers		RC	:90B				
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 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.

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.

EPSON RS-Series 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.

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			
Declared	Rated	1 kg	1 kg			
Payload	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).





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Compact with unique workspace design

- Arm length of 350 mm
- Payloads up to 3 kg
- Maximum motion efficiency
- Cleanroom ISO Class 3 models available



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		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 (300 mm horizontal, 25 mm vertical) with 1 kg payload (path coordinates optimized for maximum speed).





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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

		DOL EEL
		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		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 (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.

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





Ultra high performance and flexibility



GX8

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		
-	Rated	2 kg	4 kg		
Payload	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 Standard/ESD/Cleanroom ISO Class 3 with ESD with ESD/Protected IP65			
Available controllers		RC700D			



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Ultra high performance and flexibility

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



SPECIFICATIONS

			GX4-A251x	GX4-	A301x	GX4-A3	51x	
Mounting type			Tabletop	Tabletop	Multiple	Tabletop	Multiple	
Arm length	rm length Arm #1 + #2		250 mm	300	mm	350 mm		
Weight (cables not inc	luded)		15 kg	15 kg 15 kg 17 kg 16 kg			17 kg	
Repeatability Joints #1, #2		Joints #1, #2	±0.008 mm		±0.01	0 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		±141 deg	±142 deg	±135 deg	±142 de	J	
		Joint #2 Clean	±137 deg	±137 deg	±135 deg	±142 de	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		
	All	Joint #3 Std & ESD			150 mm			
	Models	Joint #3 Clean			120 mm			
	wodels	Joint #4						
Payload		Rated	2 kg					
		Maximum			4 kg			
Standard cycle time ¹			0.33 sec	0.34	1 sec	0.35 sec	<u> </u>	
Joint #4 allowable		Rated			0.005 kg•m²			
moment of inertia ²		Maximum			0.05 kg•m²			
Joint #3 downward for	rce				150 N			
Electric lines			15-Pin (D-Sub), 8-Pin (RJ45 Cat5e)					
Pneumatic lines			Φ6 mm x 2, ø4 mm x 1					
Installation environme	ents		Standard/ESD/Cleanroom ISO Class 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.





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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



| Epson RC+ Software | Integrated Solutions

SPECIFICATIONS

		(GX8-A45	X	(3X8-A55	X	(GX8-A65	X
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)		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 de
	Joint #2 Std & ESD	Z: 0 mm ~ -270 mm ± 147.5 deg Z: -270 mm ~ -330 mm ± 145 deg	1105	i dog		±147.5 deg				
	Joint #2 Clean/ Protected	Z: 0 mm ~ -240 mm ± 147.5 deg Z: -240 mm ~ -300 mm ± 137.5 deg	±125 deg		Z: 0 ~ -240 mm ± 147.5 deg, Z: -240 ~ -300 mm ± 145 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•m²					
moment of inertia ²	Maximum				0.16 kg∙m²					
Joint #3 downward for	rce					150 N				
Electric lines				15-Pir	n (D-Sub), 9-1	Pin (D-Sub),	8-Pin (RJ45 (Cat5e)		
Pneumatic lines		Φ4 mm x 2, Φ6 mm x 2								
Installation environments		Standard/ESD/Cleanroom ISO Class 3 with ESD/Protected IP65								
Installation environme										
Installation environme Available controllers						RC700D				

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.



SCARA ROBOTS



G1

G3

High-performance, high-precision mini SCARA robot



Compact, fast and powerful with straight or unique curved arm



G6

Ultra fast speeds with extraordinary motion range



G10

G20

Long reach and high payloads with strong J4 inertia



G-SERIES SPECIFICATIONS

		G1	G3	G6	G10	G20
Arm length	Arm #1 + #2	175/225 mm	250/300/350 mm	450/550/650 mm	650/850 mm	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
	Rated	0.5 kg	1 kg	3 kg	5 kg	10 kg
Payload	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		
Installation environments		Standard/Cleanroom ISO Class 3 with ESD		Standard/Cleanroom ISO Class 3 with ESD/Protected IP54 and IP65		
Available controllers RC700A						

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





Scan 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		Tabletop		Tab	letop		
Arm length	Arm #1 + #2	175 mm 225 mm 175 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	±0.010 deg		-			
Max. motion range	Joint #1	±125	deg	±125	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	5 kg		
Standard cycle time ¹		0.29 sec	0.30 sec	0.29 sec	0.30 sec		
Joint #4 allowable	Rated	0.0003	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			RC7	'00A			
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.





Scan 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 G			G <u>3</u> -	G3-351		
Mounting type			Tabletop	Tabletop	Multiple	Tabletop	Multiple		
Arm length		Arm #1 + #2	250 mm	300	mm	350	mm		
Weight (cables	not included)				14 kg				
Repeatability		Joints #1, #2	±0.008 mm		±0.0	10 mm			
Joint #3					±0.010 mm				
		Joint #4		1	±0.005 deg	1			
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		0.3	7 sec			
Joint #4 allowa	ble	Rated	0.005 kg•m²						
moment of iner	tia²	Maximum	0.050 kg•m²						
Joint #3 downv	vard force		150 N						
Electric lines			15-Pin (D-Sub)						
Pneumatic line	s				nm × 1, Ф6 mm	× 2			
Installation env	rironments				anroom ISO Clas				
Available contr					RC700A				
Safety standards			CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06 UL1740 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.





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

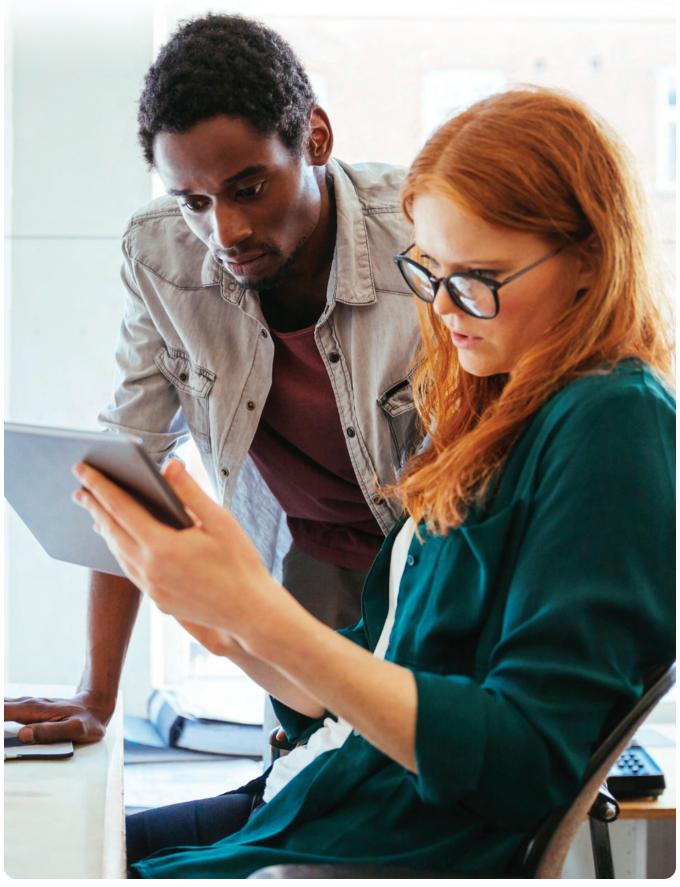


SPECIFICATIONS

		G6-45	X		G	6-55×	C	G	6-65	x
Mounting type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall
Arm length	Arm #1 + #2	450 mn	n			550 mm		650 mm		1
Weight (cables not included)		27 kg		29 kg	27 k	g	29 kg	28 k	<g< th=""><th>29.5 kg</th></g<>	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 c	leg	±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			18	0 mm/330 m	m				
	Joint #3 Clean			150	0 mm/300 m	m				
	Joint #4				±360 deg					
Payload	Rated				3 kg					
	Maximum				6 kg					
Standard cycle time ¹		0.33 sec			C).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-Pi	n D-Sub)				
Pneumatic lines				Ф4 т	m × 2, Φ6 mi	m×2				
Installation environments		Standard/Cleanroom ISO Class 3 with ESD/Protected IP54 and IP65								
Available controllers		RC700A								
Safety standards		CE	Mark: EMC		Machinery D UL1740 ISI/RIA R15.0 NFPA 79		RoHS Dire	ctive		

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





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Long reach at high speeds

- Arm lengths of 650 and 850 mm
- Reduced residual vibration for faster accel./decel. rates
- Tabletop, wall- and ceiling-mount models available
- Cleanroom ISO Class 3 and Protected IP65 models available



SPECIFICATIONS

			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	3 kg	53 kg
Repeatability	Joints #1, #2			±0.0)25 mm		
	Joint #3			±0.0)10 mm		
	Joint #4			±0.0	005 deg		
Max. motion range	Joint #1	±152 deg	±107	deg	±152	2 deg	±107 deg
	Joint #2	±152.5 deg	±13	0 deg		Clean/Protected	l models -390 deg ±151 deg
	Joint #3 Std	180 mm/420 mm					
	Joint #3 Clean		150 mm/390 mm				
	Joint #4	±360 deg					
Payload	Rated				5 kg		
	Maximum			1	0 kg		
Standard cycle time ¹			0.34 sec			0.37 sec	
Joint #4 allowable	Rated			0.02	0 kg•m²		
moment of inertia ²	Maximum			0.25	0 kg•m²		
Joint #3 downward force				2	50 N		
Electric lines				24 (9-Pin D-S	ub, 15-Pin D-Suk	o)	
Pneumatic lines				Φ4 mm ×	2, Φ6 mm × 2		
Installation environments		Standard/Cleanroom ISO Class 3 with ESD/Protected IP54 and IP65					P65
Available controllers		RC700A					
Safety standards			CE Mark: E	L ANSI/I	chinery Directive IL1740 RIA R15.06 FPA 79	, RoHS Directive	

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).





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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



SPECIFICATIONS

			G20-85x			G20-A0x	
Mounting type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall
Arm length	Arm #1 + #2	Tablotop	850 mm	· · · ·	1.000 mm		vva.ii
Weight (cables not included)		48	kg	53 kg	50) ka	55 kg
Repeatability	Joints #1, #2		<u> </u>	±0.02			
	Joint #3			±0.01	0 mm		
	Joint #4			±0.00	5 deg		
Max. motion range	Joint #1	±152 deg	±107	deg	±152	deg	±107 deg
	Joint #2	±152.5 deg	±130	deg		For Clean/Protected models leg below $Z = -360 \sim -390 \text{ deg } \pm 151 \text{ deg}$	
	Joint #3 Std			180 mm	n/420 mm		
	Joint #3 Clean			150 mm	n/390 mm		
	Joint #4			±36	±360 deg		
Payload	Rated			10	kg		
	Maximum			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				25	0 N		
Electric lines				24 (9-Pin D-Su	b, 15-Pin D-Sub)		
Pneumatic lines				Φ4 mm × 2	Φ6 mm × 2		
Installation environments			Standard/Cleanro	oom ISO Class 3	with ESD/Protect	ted IP54 and IP6	5
Available controllers		RC700A					
Safety standards			CE Mark: EM	UL ANSI/R	hinery Directive, F .1740 IA R15.06 PA 79	RoHS Directive	

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.

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

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 floor space 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.

EPSON

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.

VT-SERIES

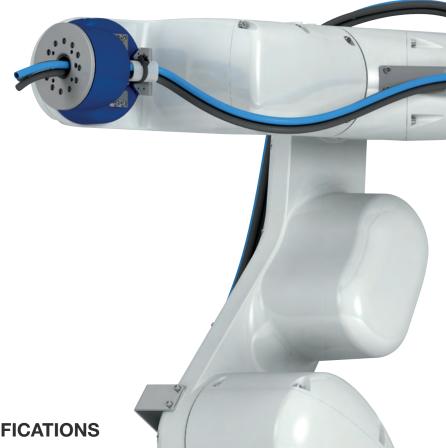
6-AXIS ROBOTS







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
Payload	Rated	3 kg
Payloau	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).







Full-featured, ultra low cost

- Arm length of 900 mm
- Payloads up to 6 kg
- Built-in controller
- Available with 110 V and 220 V power or as a DC-powered version



		VT6-A901 (VT6L)		Γ6L)	VT6-A901-DC (VT6L-DC)
Mounting type		Tabletop	Ceiling	Wall	Tabletop
Degree of freedom			6		6
Arm length	P Point: through the center of J4/J5/J6		920 mm		920 mm
Vrist flange surface			1,000 mm		1,000 mm
Veight (cables not included)			40 kg		40 kg
Repeatability	Joints #1 - #6		±0.100 mm		±0.100 mm
Max. motion range	Joint #1	±170 d	leg/±170 deg/±	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•m²			0.300 kg•m²
of inertia ²	Joint #5		0.300 kg•m²		0.300 kg•m²
	Joint #6		0.100 kg•m²		0.100 kg•m²
Standard I/O			In: 24/Out: 16		In: 24/Out: 16
nstallation environments		Standard/ Cleanroom ISO Class 4/ Protected IP67	Star	ndard	Standard
Available controllers			Built-in		Built-in
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)		S Directive 2012	CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 Edition)
Power		1	10 and 220 VA	С	48 VDC



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¹ Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 kg payload (path coordinates optimized for maximum speed).

2 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 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.

N-SERIES 6-AXIS ROBOTS



N2

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



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		
Declared	Rated	1 kg	3 kg		
Payload	Maximum	2.5 kg	6 kg		
Installation environments		Standard	Standard/Cleanroom ISO Class 5 with ESD		
Available controllers		RC700A			





Space-saving, revolutionary design

- Arm length of 450 mm
- Payloads up to 2.5 kg
- World's first compact folding-arm design
- Reduces required workspace area vs. standard 6-Axis robots
- Maximizes motion efficiency for faster cycle times



SPECIFICATIONS

		N2-A	A450		
Mounting type		Tabletop	Ceiling		
Degree of freedom		6	3		
Arm length	P Point: through the	450			
	center of J4/J5/J6	450	IIIIII		
Wrist flange surface		507	mm		
Weight (cables not included)		19	kg		
Repeatability	Joints #1 - #6	±0.02	0 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 kg			
	Maximum	2.5	kg		
Allowable moment	Joint #4	0.200	kg•m²		
of inertia ¹	Joint #5	0.200	kg•m²		
	Joint #6	0.080	kg•m²		
Electric lines		15 (15-Pin: D-Sub), 8	(8-Pin: RJ45) Cat5e		
Pneumatic lines		Ф6 m	m × 2		
Installation environment		Stan	dard		
Available controllers		RC7	00A		
Safety standards		CE Mark: EMC Directive, Mach ANSI/RIA R NFPA 79 (20	15.06-2012		

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.





Scan 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 111111		
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 inertia¹	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		Ф6 m	m × 2		
nstallation environment		Stan	dard		
Available controllers		RC7	00A		
Safety standards		CE Mark: EMC Directive, Machinery Directive, RoHS Directive ANSI/RIA R15.06-2012 NFPA 79 (2007 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.

Controllers



C-SERIES

6-AXIS ROBOTS



C4

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

C12



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 with ESD	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).



Scan Here for **CAD Drawings**

High speed and exceptional flexibility

- Arm lengths of 600 and 900 mm
- Payloads up to 4 kg
- Slim design and compact wrist—fits in tight spaces
- Cleanroom ISO Class 3 models available



SPECIFICATIONS

		C4-A6	601 (C4)	C4-A90	01 (C4L)	
Mounting type		Tabletop	Ceiling	Tabletop	Ceiling	
Degree of freedom			'			
Arm length	P Point: through the	000) mm	000) mm	
	center of J4/J5/J6	600	J mm	900	mm	
Wrist flange surface		665	5 mm	965	i mm	
Weight (cables not included)		27	7 kg	29	kg	
Repeatability	Joints #1 - #6	±0.02	20 mm	±0.03	30 mm	
Max. motion range	Joint #1		±170) deg		
	Joint #2		-160 ~ -	+65 deg		
	Joint #3	-51 ~ +225 deg				
	Joint #4	±200 deg				
	Joint #5	±135 deg				
	Joint #6	±360 deg				
Payload	Rated	1 kg				
	Maximum		4	kg		
Standard cycle time ¹		0.3	7 sec	0.47	7 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			Ф4 m	ım × 4		
Installation environments		Standard/Cleanroom ISO Class 3 with ESD				
Available controllers		RC700A				
		CE Mark: EMC Directive, Machinery Directive, RoHS Directive				
Safety standards		UL1740				
		ANSI/RIA R15.06				

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).

C8/C12



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 center of J4/J5/J6	711 mm	901 mm	1,400 mm	1,400 mm		
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•m²		0.700 kg•m²		
of inertia ²	Joint #5		0.700 kg•m²				
	Joint #6		0.150 kg•m²		0.200 kg•m²		
Electric lines			15-Pin (D-Sub), 8-F	Pin (RJ45), 6-Pin (for Force S	Sensor)		
Pneumatic lines				Ф6 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 Directive, RoHS Directive UL1740 ANSI/RIA R15.06 CE Mark: EMC Machinery Directive, RoHS Directive ANSI/RIA R15.06 ANSI/RIA R			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).

| Epson RC+ Software | Integrated Solutions |

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.

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.

CONTROLLERS

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.





All-in-One

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

RC90B

Great performance at an affordable price



RC700A

Powerful feature set with ultra fast processing



RC700D

High-performance controller for our most advanced SCARA robots

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

visit www.epsonrobots.com

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



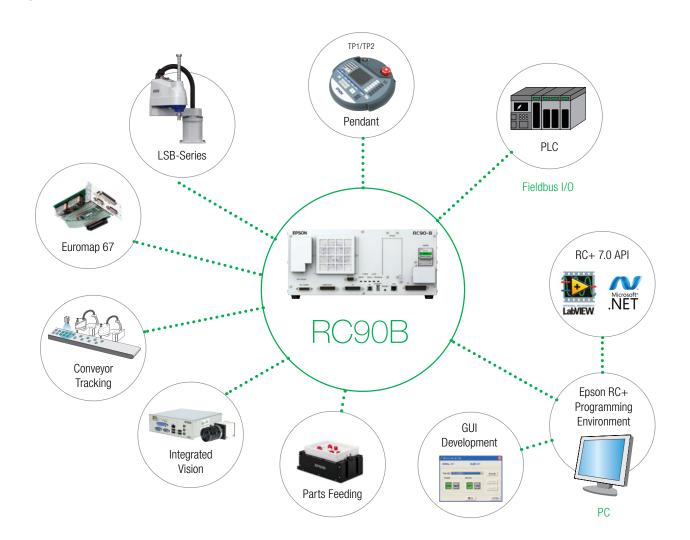
RC90B

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



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

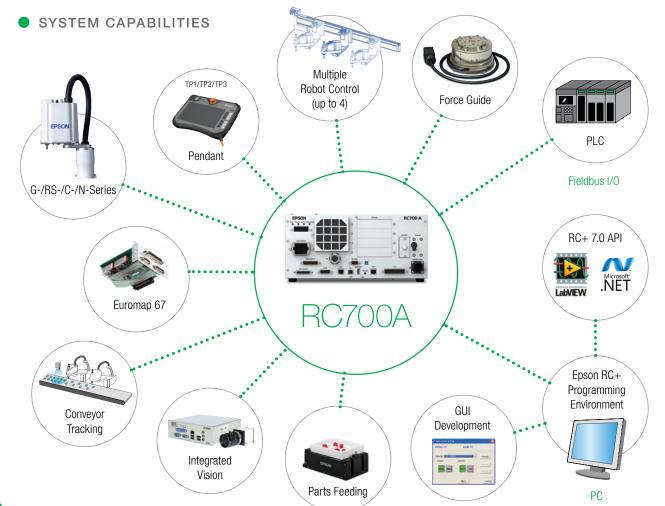


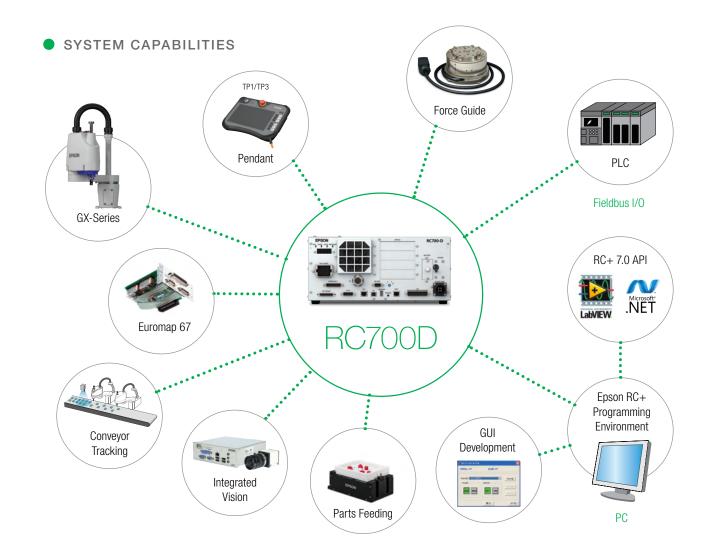


High-performance controller for our most advanced SCARA robots

- 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







ROBOT CONTROLLERS

SPECIFICATIONS

Model		All-ir	n-One	RC	90B	
Robot manipulator control	Programming language and robot control software	· '	RC+ 7.x - Express 1.x		RC+ 7.x + Express 1.x	
Joint control			imultaneous control, servo control		simultaneous control, C servo control	
	Speed control	CP motion: Programm	e in the range of 1% to 100% nable (actual value to be y entered)	CP motion: Programn	le in the range of 1% to 100% nable (actual value to be ly entered)	
	Acceleration/ deceleration control	Automatic CP motion: Prog			PTP motion: Programmable in the range of 1% to 100% Automatic CP motion: Programmable (actual value to be manually entered)	
	Number of manipulators		1		1	
Positioning control	. ,	PTP (Point-To-Point)	/CP (Continuous Path)	PTP (Point-To-Point)	/CP (Continuous Path)	
Memory capacity		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) 100 variables ze of array variables)	Point data area: 1 Backup variable (includes the memory are Approx. 4,	Maximum object size: 8MB Point data area: 1,000 points (per file) Backup variable area: Max. 400KB (includes the memory area for the management table) Approx. 4,000 variables (depends on the size 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	TB-Series: In: 18/Out: 12/		Including 8 inputs, 8 outputs with remote function assigned assignment change allowed	
(standard)	Standard I/O drive unit		_	_		
Communication	Ethernet	1 ch	annel	1 channel		
(standard)	USB	1 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 cł	nannel	
	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		ntal or unauthorized alteration o	n be set to restrict access to son of control programs when multip Keeps a log of changes made to	le operators need to have acce		
Safety features		Dynamic brake / Encoder cable disconnection error detection / Motor overload detection / Irregular motor torque (out-of-control Manipulator) detection / Motor speed error detection / Positioning overflow - servo error - detection / Speed overflow - servo error - detection / CPU irregularity detection / Memory check-sum error detection / Overheat detection at the Motor Driver Module / Relay welding detection / Over-voltage detection /		Dynamic brake / Encoder cab Motor overload detection / Irre Manipulator) detection / N Positioning overflow - servo e - servo error - detection / CPL check-sum error detection / Driver Module / Relay welding c AC power supply voltage reduc	y door input / Low power mode le disconnection error detection gular motor torque (out-of-contr Motor speed error detection / rror - detection / Speed overflow J irregularity detection / Memory Overheat detection at the Motor letection / 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 \	//Single phase 50/60 Hz	
Weight		Varies per	robot model	7.	 5 kg	

RC	700A	RC	700D			
1	n RC+ 7.x supported with N- and RS-Series)	Epson RC+ 7.x Epson RC+ Express 1.x				
	simultaneous control, C servo control		simultaneous control, C servo control			
	ole in the range of 1% to 100% ctual value to be manually entered)	PTP motion: Programmable in the range of 1% to 100% CP motion: Programmable (actual value to be manually enter				
	the range of 1% to 100%; Automatic ctual value to be manually entered)	PTP motion: Programmable in the range of 1% to 100%; Autor CP motion: Programmable (actual value to be manually enter				
	4		1			
PTP (Point-To-Poin	t)/CP (Continuous Path)	PTP (Point-To-Point)/CP (Continuous Path)			
Point data area: Backup variabl (includes the memory ar Approx. 4	object size: 8MB 1,000 points (per file) e area: Max. 400KB ea for the management table) ,000 variables size of array variables)	Point data area: [*] Backup variable (includes the memory are Approx. 4,	bject size: 8MB 1,000 points (per file) area: Max. 400KB a for the management table) 000 variables ize 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 outpu with remote function assign assignment change allowe			
Input: 24 Output: 16	Per drive unit		_			
1 (channel	1 cl	nannel			
-	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 (channel	1 c	nannel			
Input: 15 per boar	d/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 allow			
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 allow			
1 channel/board PROFIBUS-DP DeviceNet Ethernet/IP	Maximum of 1 board allowed	1 channel/board PROFIBUS-DP DeviceNet Ethernet/IP	Maximum of 1 board allowed			

Password-based protection levels can be set to restrict access to some parts of the Epson RC+ system, helping prevent accidental or unauthorized alteration of control programs when multiple operators need to have access to basic controls. Keeps a log of changes made to source code.

Emergency stop switch / Safety door input / Low power mode / Dynamic brake / Encoder cable disconnection error detection / Motor overload detection / Irregular motor torque (out-of-control Manipulator) detection / Motor speed error detection / Positioning overflow - servo error - detection / Speed overflow - servo error - detection / CPU irregularity detection / Memory check-sum error detection / Overheat detection at the Motor Driver Module / Relay welding detection / Over-voltage detection / AC power supply voltage reduction detection / Temperature error detection / Fan error detection	Emergency stop switch / Safety door input / Low power mode / Dynamic brake / Encoder cable disconnection error detection / Motor overload detection / Irregular motor torque (out-of-control Manipulator) detection / Motor speed error detection / Positioning overflow - servo error - detection / Speed overflow - servo error - detection / CPU irregularity detection / Memory check-sum error detection / Overheat detection at the Motor Driver Module / Relay welding detection / Over-voltage detection / AC power supply voltage reduction detection / Temperature error detection / 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

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.







RC+ Express

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

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



SIMPLE TO NAVIGATE

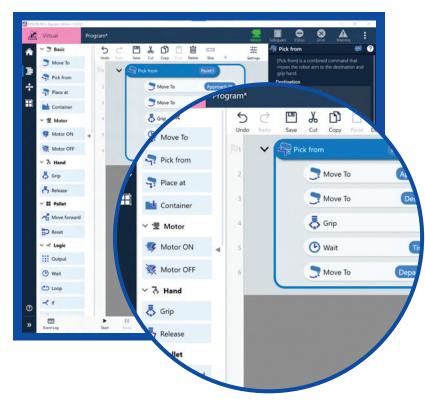
Clear, intuitive, visual user interface makes it easy to learn and manage key functions, such as jogging, gripper control and motion. Take advantage of easy jog when manipulating 6-Axis robots, move effortlessly between linear and joint motion, and easily align the robot tool face to different planes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



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

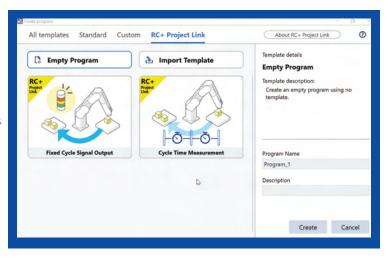
Get the power and flexibility of a scripted-text language with an easy-to-use robot programming environment. Epson RC+ Express is designed for use with Epson SCARA and 6-Axis robots, from the All-in-One TB-Series and VT6L to the highest-performance G-, GX- and C-Series.



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+.

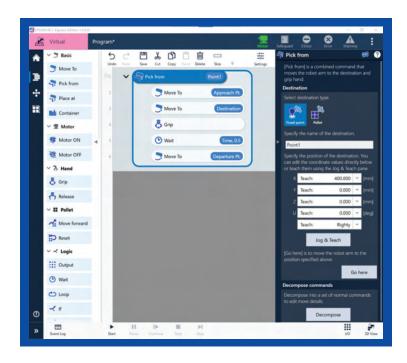


60

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.

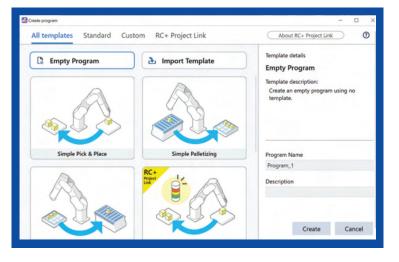
Once running, programs can be protected to reduce the risk of accidental program changes, all while allowing points to be re-taught to account for normal production variability.



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.

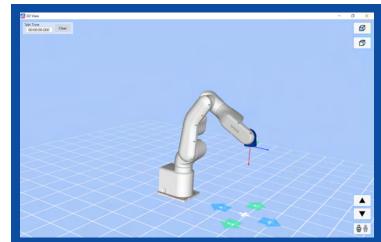
Templates are even provided for the optional Project Link, which allows the use of more advanced options, such as Vision Guide, Force Guide and Parts Feeding.



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.



SCARA Robots

6-Axis Robots

Controllers

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

All-inclusive development environment

seamless integration, with all components working

together in one integrated environment.

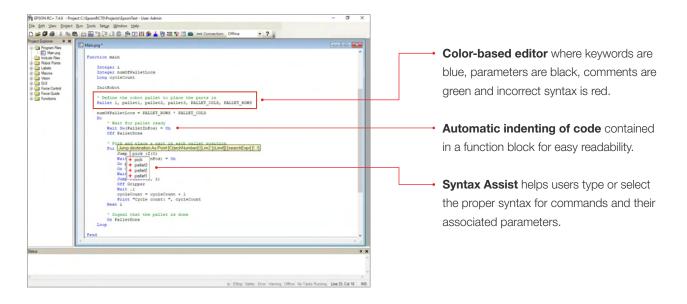
- Projects
- Robot manager
- Task manager
- Run window
- Operator window
- Jog and teach window

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

EDITOR

Auto-assist makes editing easier than ever

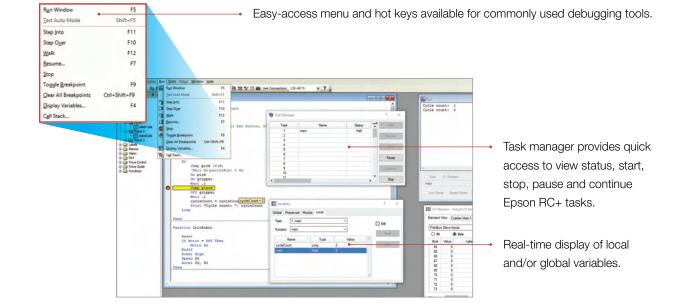
Epson RC+ includes powerful editing capabilities to minimize mistakes and streamline program development. In addition to basics such as cut, copy and paste, it also includes Syntax Assist, auto-indent, color-based command usage, comment blocks, indent/outdent, find/replace and more.



INTEGRATED DEBUGGER

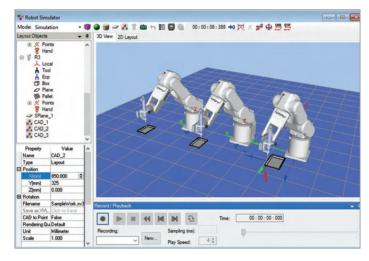
Easily identify issues in record time

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.



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

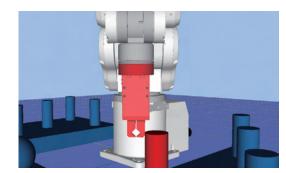
 Machine vision image processing input can also be used within simulations

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

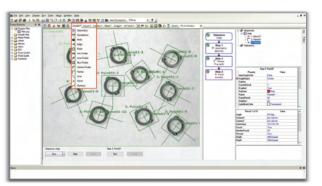
Epson's SPEL+ is a powerful yet easy-to-learnand-use programming language for robot automation applications. With 500+ commands and statements, including motion functions, I/O control, variables and data types, program control and more, SPEL+ can be used for both complex and simple applications.

Function 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 Else	*move arm to goodpart pile
Jump badparts EndIf	*move arm to bad part pile

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.





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

SCARA Robots

6-Axis Robots

Controllers

SOLUTIONS

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.





IntelliFlex

High-performance parts-feeding solution with easy integration



Force Guide

Intuitive robot force guidance for highprecision performance



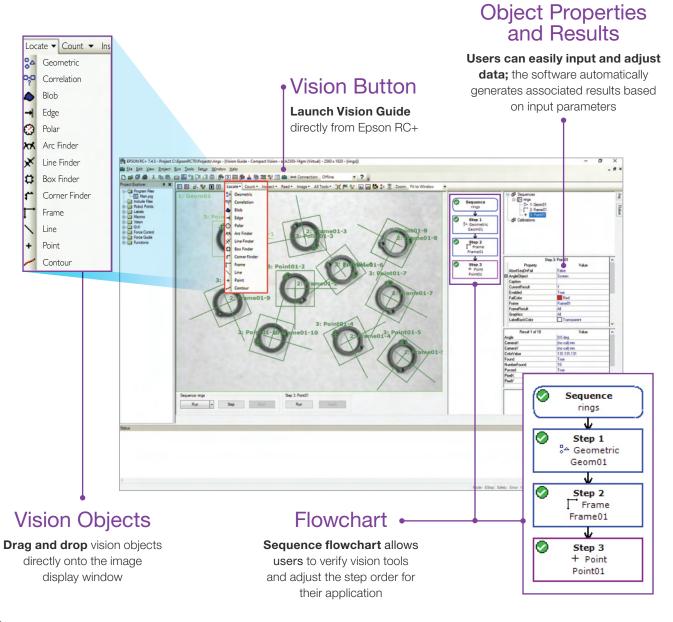
Integrated vision guidance with easy configuration and collaboration



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 point-and-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.



VISION GUIDE

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.



Versatile tool set



Geometric

Finds a model based on geometric features. Used for determining position and orientation.



Polar

Uses correlation of a rotational area to determine object orientation.



LineInspector

Identifies deviations on a linear path between two points.



Defines a line between two objects.



Computes geometric, topological and other image features. Used for determining for alignment, inspection, presence/absence, size, positioning and orientation.



Correlation

Measures quality compared to previously trained features position and orientation.



Locates edges by identifying changes in grey value from dark to light or light to dark.



ImageOp

Performs morphology, convolution, flip, binarize, rotate and more for a region of interest.



CodeReader

Optical Character Recognition Reads bar or two-dimensional Detects user-defined colors. is used to recognize character codes, including data matrix and others.



LineFinder

Determines the location of a line in an image.



strings in an image.

ArcFinder

Determines the radius and center point of an arc or major/minor axes and the angle of an ellipse.



Point

Defines reference positions for other objects.



an object.

ArcInspector

Determines abnormalities in the arc of a circle/ellipse.

BoxFinder

Determines the center of



DefectFinder

Compares a template image to an input image to identify defects.



Frame

Provides dynamic position reference for other vision



CornerFinder

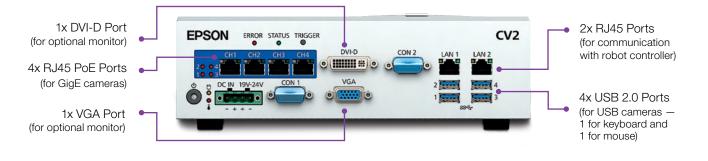
Identifies the intersection position of two lines that



Contour

Generates a contour based on the external shape of

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		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 (excluding rubber feet)		232 mm x 175	N/A					
Operating temperature and humidity		5 – 40 deg C, 20% – 80	N/A					
Direction of installation		Horizontal o	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,	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), power connector cap for	N/A					

SCARA Robots

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-andclick 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.







IntelliFlex 80—Idea for parts ranging from 3 mm – 15 mm



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

- **Vision Programming**
- Built-in robot-to-vision calibration and point-and-click programming
- **Parts Tuning**
 - Automatic parts tuning with vision feeder integration
- **Parts Control Adjustment** Configuration wizard for defining part separation pickup area and

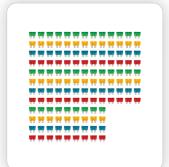
TYPICAL SYSTEM SETUP

- **Feeder Communications**
- Low-level protocol using feeder command set
- **Feeder Tuning** Getting parts to move properly
- **Vision Setup and Calibration** Calibrating vision system to robot
- **Vision Programming** Finding parts reliably
- 5. **System Programming** Robot + Feeder +
- Vision coordination
- **Optimization** 6. Fine-tuning and performance optimization

Turn this...



Into this...



With this.

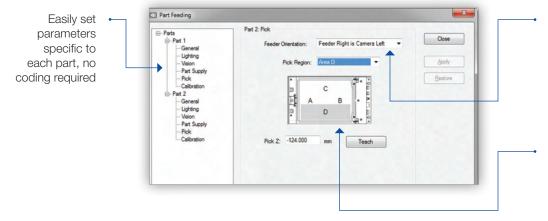


With multi-axis vibration technology, designed to optimize parts control.

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.

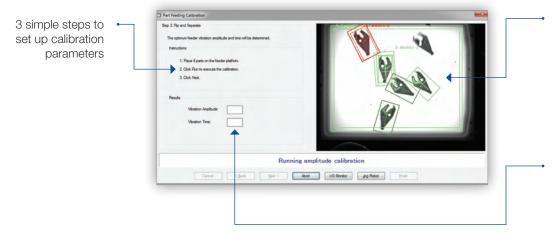
Part pickup regions maximize parts throughput



Configures feeder orientation to properly select the pickup area without needing to modify the physical application layout

Defines parts pickup area to optimize cycle time

Parts calibration (tuning) wizard reduces tuning time



Integrated image display window to show part separation results

Automatically computes and displays the tuning parameters, vibration amplitude and vibration 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 (T	CP/IP)				
Power supply	24 V/6 A	24 V/8 A	24 V/20 A	24 V/20 A			
Vibration platform (length x width)	65 mm x 52 mm	195 mm x 150 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-/LSB-/RS-, TB-, GX-Series 6-Axis: C-/N-/VT-Series						
Vision integration		Vision Guide P\	/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)		Suppor	ted				
Options							
Purge hardware		Optional hardwa	are required				
Integrated backlight options		White/Red/Infrare	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, P	ower and Communication C	Cables			
Support	Customer Se Applications S Sales Inquirie	Support (562) 290-5930	service@robots.epson.com applications@robots.epson info@robots.epson.com				

Options

SCARA Robots

6-Axis Robots

Controllers

| Epson RC+ Software Integrated Solutions

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

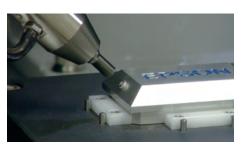
Force Guide applications

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 high-precision valve assembly. Epson sensors detect misalignment. And, because of high sensitivity, the part or connector is easily inserted, damage-free.



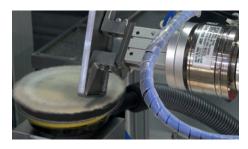
Screw driving

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.

Force Guide tools

Pre-configured force guidance object tools provide a simple method for creating robot force-based motions and applications.





Find the object



FOLLOW

Move the robot based on the force detected



ALIGN

Align the object, as needed



PRESS

Continue to apply the necessary force to the object to complete placement of the part



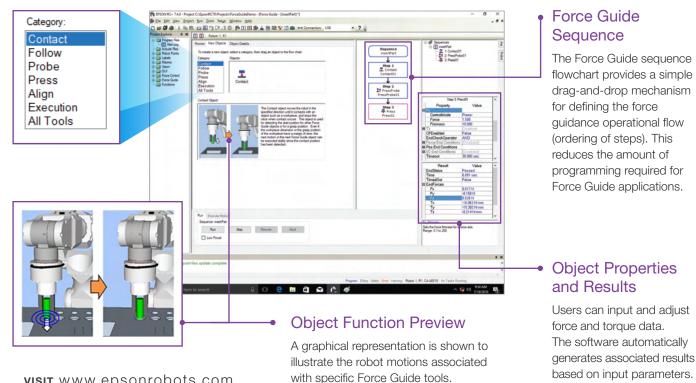
PROBE

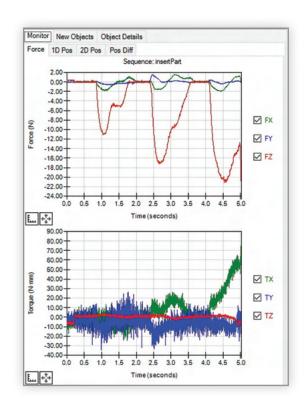
Find the holes or steps needed

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.





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	S25	503	S2506	S25010
Compatible robo	ts¹	C4	C8 (Standard, Clean/ ESD) C12XL	C8 (Protected)	N6	N2	RS-Series G3 GX4		G6 GX8	G10 G20
Cabling routing		External Internal Internal Internal Internal External					External	Internal	Internal	
Dimensions (diar	neter x height)							80 mm x 52 mm	80 mm x 52 mm	
Weight ²		460 g	520 g	680 g	460 g	460 g	620 g 620 g			
Compatible robo	t controller3		l	I	RC700A, R0	C700D (GX4	00D (GX4 and GX8)			
Measured degre	es of freedom	6-Axis: 3 force components (Fx, Fy, Fz) and 3 torque components (Tx, Ty, Tz)				Ty, Tz)				
Rated load	Force (Fx, Fy, Fz)	250 N								
nateu loau	Torque (Tx, Ty, Tz)	18 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 o	r less (5 sec,	25 °C)			
resolution4	Torque (Tx, Ty, Tz)				± 0.003 Nm	or less (5 se	ec, 25 °C)			
Measurement ac	curacy ⁵				± 5	% RO or les	S			
Operating	Temperature				-1(°C ~ 40 °C				
environment	Humidity			10%	– 80% relativ	e humidity, r	no condensa	tion		
Protection class		IP20	IP20	IP67	IP20	IP20	IP20	IP20	IP20	IP20
What's in the box	(Force Sensor, Force Control Board, Cables								
Safety standards	3				CE Mark: EN	MC 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								

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

6-Axis Robots

Controllers

Epson RC+ Software

Integrated Solutions

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.



SPECIFICATIONS

	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)	•	_	•	•
Conveyor tracking	_	•	•	•
PG cards (external axis control)	_	•	•	•
Emergency stop switch	•	•	•	•
RS-232C cards	_	•	•	•
I/O expansion cards	_	•	•	•
Fieldbus I/O (slave)	•	•	•	•
Fieldbus I/O (master)	•	•	•	•
I/O cable kit	_	•	•	•
Analog 1/0	_	•	•	•
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	_	_	_	_	•	•	_	_	_	•
Tool adapters/ISO flange	•	•	•	•	•	•	•	_	•	•
Brake release units	_	_	_	_	_	_	•	•	•	_
Power and signal cables	_	•	•	•	•	•	•	•	•	•
Camera mounting bracket	•	•	•	_	•	•	•	•	•	•
External drive units	_	_	•	•	_	•	-/●	•	•/-	_
UL 1740	_	_	•	•	•	•	_	•	•	_

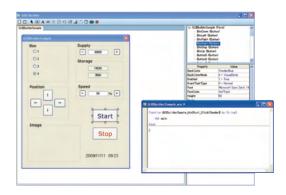
GUI Builder

COMPATIBLE CONTROLLERS

RC90B RC700A RC700D

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



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.

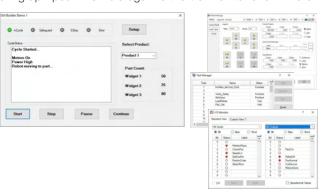


STEP 2

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.



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.



The GUI Builder Window

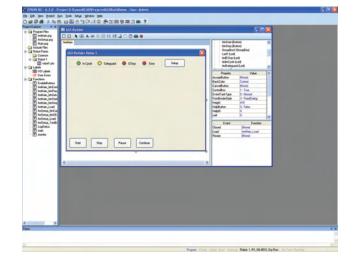
GUI Builder has five main areas of use for creating and modifying user GUIs. These include: Toolbar Buttons, Design Area, Forms Explorer, Property Grid and Events Grid.

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.



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.

RC+ 7.0 API

COMPATIBLE CONTROLLERS

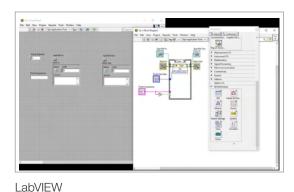
All-in-One RC90B





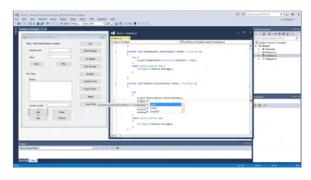
Program and execute robot applications in a familiar MS Windows OS environment

- 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
- 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
- Force Monitor



Visual C®

Add-On Instructions (AOI) for Allen Bradley®

COMPATIBLE CONTROLLERS

RC90B





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

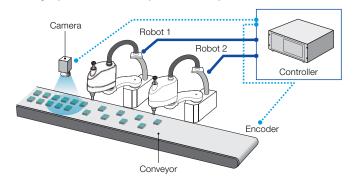
COMPATIBLE CONTROLLERS





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

- 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



Fieldbus I/O (Master)

All-in-One RC90B





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
- Must be connected to robot controller during operation

Fieldbus I/O (Slave)

COMPATIBLE CONTROLLERS

All-in-One







EtherNet/IP PROFI NET

Ether**CAT**

DeviceNet

High-speed peripheral connectivity

Support for DeviceNet, PROFIBUS, CC-Link®, EtherNet/IP, EtherCAT and PROFINET® networked peripherals (256-point I/O)

Teach Pendant TP2

Easy-to-use pendant

Universal design ensures ease of use for both right-handed and left-handed operators



Teach Pendant TP3

COMPATIBLE CONTROLLERS







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



Camera Mounting Bracket

Easily mount cameras to robot arm



Bracket design varies according when ordering.





OCR



All-in-One RC90B

RC700A

RC700D

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

- 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 RC700D

Control peripheral devices for fully integrated process automation*

- 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.

ECP

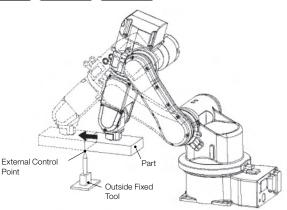
COMPATIBLE CONTROLLERS

All-in-One

RC90B

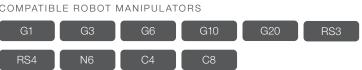
External Control Point (ECP) operation for precise positioning

- For processes requiring the workpiece to be moved against a fixed tool, external control points can be used to ensure precise positioning
- Up to 16 external control points can be set



RC700A DU Drive Unit

Control multiple robots with a single RC700A controller





Emergency Cable Kit

COMPATIBLE CONTROLLERS



RC700D

Convenient wiring of the safety circuit

Cable and connectors for easy connection of the emergency stop switch



I/O Cable Kit

COMPATIBLE CONTROLLERS

RC90B RC700A

Cables and connectors for easy connectivity with no soldering required

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



RS-232C Cards

COMPATIBLE CONTROLLERS

RC700A RC700D

Expanded Serial port connectivity

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



I/O Expansion Cards

COMPATIBLE CONTROLLERS







Expanded input/output flexibility

■ 24 inputs/16 outputs per board



External Wiring Units

COMPATIBLE ROBOT MANIPULATORS

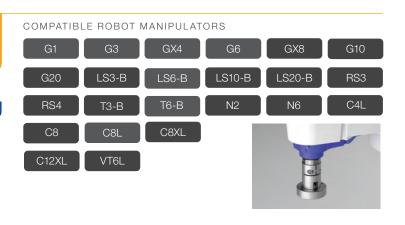
Simplifies wiring when mounting end-effector options

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



Tool Adapters/ ISO Flanges

Enhances handling/processing versatility and simplifies end-effector changes



Brake Release Units

COMPATIBLE ROBOT MANIPULATORS

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





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.

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.

