

G3

Compact and Ultra Powerful

- Arm Lengths from 250 – 350 mm
- Handles Small, Heavy Payloads up to 3 kg
- Fast Cycle Times for Increased Productivity
- Available with Straight or Curved Arm



Specifications

			G3-251	G3-301		G3-351		
Mounting type			Tabletop	Tabletop	Multiple	Tabletop	Multiple	
Arm length		Arm #1, #2	250 mm	300 mm		350 mm		
Max. operating speed		Joints #1, #2	3550 mm/s	3950 mm/s		4350 mm/s		
		Joint #3	1100 mm/s					
		Joint #4	3000 deg/s					
Weight (cables not included)			14 kg					
Repeatability		Joints #1, #2	±0.008 mm	±0.01 mm		±0.01 mm		
		Joint #3	±0.01 mm					
		Joint #4	±0.005 deg					
Max. motion range	Straight	Joint #1	±140 deg	±140 deg	±115 deg	±140 deg	±120 deg	
		Joint #2 (Cleanroom model)	±141 deg (±137 deg)	±142 deg (±141 deg)	±135 deg (±135 deg)	±142 deg (±142 deg)		
	Curved	Joint #1 Right hand	–	-125~150 deg	–	-110~165 deg	-105~130 deg	
		Left hand	–	-150~125 deg	–	-165~110 deg	-130~105 deg	
		Joint #2 Right hand (Cleanroom model)	–	-135~150 deg (-135~145 deg)	–	-120~165 deg (-120~160 deg)	-120~160 deg (-120~150 deg)	
		Left hand (Cleanroom model)	–	-150~135 deg (-145~135 deg)	–	-165~120 deg (-160~120 deg)	-160~120 deg (-150~120 deg)	
	All models	Joint #3	150 mm					
		Cleanroom model	120 mm					
		Joint #4	±360 deg					
	Payload		Rated	1 kg				
			Maximum	3 kg				
	Standard cycle time ¹			0.36 sec	0.37 sec		0.37 sec	
Joint #4 allowable moment of inertia ²		Rated	0.005 kg•m1					
		Maximum	0.05 kg•m1					
Motor power consumption		Joint #1	200 W					
		Joint #2	150 W					
		Joint #3	150 W					
		Joint #4	150 W					
Joint #3 downward force			150 N					
Electric lines			15Pin (D-Sub)					
Pneumatic lines			Φ4 mm x 1, Φ6 mm x 2					
Installation environment			Standard/Cleanroom ³ & ESD					
Available controllers			RC180, RC620+, RC700A					
Safety standards			CE, ANSI/RIA15.06-2012, UL 1740					

Sales inquiries: 562-290-5997

epsonrobots.com

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 INERTIA command. ³ Complies with ISO Class 3 (ISO14644-1) and older Class 10 (less than 10 0.1µm particles per 28,317cm³:1cft) cleanroom standards.

Specifications and terms are subject to change without notice. EPSON is a registered trademark and EPSON Exceed Your Vision is a registered logomark of Seiko Epson Corporation. All other product and brand names are trademarks and/or registered trademarks of their respective companies. Epson disclaims any and all rights in these marks. Copyright 2018 Epson America, Inc. CPD-55422 3/18