

G6

Compact, High Speed and Powerful

- Arm Lengths from 450 – 650 mm
- High Rigidity Arm = Ultra High Speed
- Extraordinary Motion Range



Robots

SCARA

Specifications

		G6-45x			G6-55x			G6-65x		
Mounting type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall
Arm length	Arm #1, #2	450 mm			550 mm			650 mm		
Max. operating speed	Joints #1, #2	6440 mm/s			7170 mm/s			7900 mm/s		
	Joint #3	180 (150 clean) = 1100 mm/sec 330 (300 clean) = 2350 mm/sec								
	Joint #4	2400 deg/s								
Weight (cables not included)		27 kg		29 kg	27 kg		29 kg	28 kg		29.5 kg
Repeatability	Joints #1, #2	±0.015 mm								
	Joint #3	±0.01 mm								
	Joint #4	±0.005 deg								
Max. motion range	Joint #1	±152 deg	±120 deg	±105 deg	±152 deg		±135 deg	±152 deg		±148 deg
	Joint #2	Z:0~270mm ±147.5 deg Z:-270~330 mm ± 145 deg	±130 deg		±147.5 deg					
	Joint #3 Std	180 mm/330 mm								
	Joint #3 Clean	150 mm/300 mm								
	Joint #4	±360 deg								
Payload	Rated	3 kg								
	Maximum	6 kg								
Standard cycle time ¹		0.33 sec			0.36 sec			0.38 sec		
Joint #4 allowable moment of inertia ²	Rated	0.01 kg•m2								
	Maximum	0.12 kg•m2								
Motor power consumption	Joint #1	400 W								
	Joint #2	400 W								
	Joint #3	200 W								
	Joint #4	100 W								
Joint #3 downward force		150 N								
Electric lines		15Pin (D-Sub), 9Pin (D-Sub)								
Pneumatic lines		Φ4 mm × 2, Φ6 mm × 2								
Installation environment		Standard/Cleanroom ³ & ESD/Protection ⁴								
Available controllers		RC180, RC620+, RC700A								
Safety standards		CE, ANSI/RIA15.06-2012, UL 1740								

Sales inquiries: 562-290-5997

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¹ Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 1 kg payload (path coordinates optimized for maximum speed). ² 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. ⁴ 4 G6 robots with optional bellows comply with IP54; G6 protected models comply with IP65.

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