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SPECIFICATION SHEET

Robots

SCARA

RS3

High-performance SCARA Plus

- Arm Length of 350 mm
- Unique Workspace Design
- Extraordinary Work Envelope Usage



Specifications

		RS3-351
Mounting type		**Ceiling**
Arm length	**Arm #1, #2**	350 mm
Max. operating speed	**Joints #1, #2**	6237 mm/s
	Joint #3	1100 mm/s
	Joint #4	2600 deg/s
Weight (cables not included)		17 kg
Repeatability	**Joints #1, #2**	±0.01 mm
	Joint #3	±0.01 mm
	Joint #4	±0.01 deg
Max. motion range	**Joint #1**	±225 deg
	Joint #2	±225 deg
	Joint #3 Std **Joint #3 Clean**	130 mm 100 mm
	Joint #4	±720 deg
Payload	**Rated**	1 kg
	Maximum	3 kg
Standard cycle time[1]		0.34 sec
Joint #4 allowable moment of inertia[2]	**Rated**	0.005 kg•m2
	Maximum	0.05 kg•m2
Motor power consumption	**Joint #1**	400 W
	Joint #2	200 W
	Joint #3	150 W
	Joint #4	100 W
Joint #3 downward force		150 N
Electric lines		15Pin (D-Sub)
Pneumatic lines		Φ4 mm × 1, Φ6 mm × 2
Installation environment		Standard/Cleanroom[3] & ESD
Available controllers		RC180, RC620+, RC700A
Safety standards		CE, ANSI/RIA15.06-2012, UL 1740

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 100.1 µm particles per 28,317cm^3:1cft) cleanroom standards.

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