# **RS series SCARA robot**

- Outstanding productivity in limited space
- Ceiling mount and rotating arm enable workpiece to be accessed from any direction



### RS3 specifications

Arm length		350 mm
Payload		Rated 1 kg / Max 3 kg
Standard cycle time		0.34 sec
Repeatability	Joint #1, #2	±0.01 mm
	Joint #4	±0.01°

### **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	130 mm
	(Cleanroom model)	(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·m <sup>2</sup>
Motor power consumption	Joint #1	400 W
	Joint #2	200 W
	Joint #3	150 W
	Joint #4	100 W
Joint #3 down force		150 N
Home		Home-return-less
Installed wire for customer use		15Pin (D-Sub)
Installed pneumatic tube for customer use		Φ4mm×1 Φ6mm×2
Installation environment		Standard/Cleamroom*3&ESD
Applicable Controller		RC180, RC620
Safety standard		CE compliant, ANSI/RIA15.06-1999

\*1:Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 1kg 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 28,317cm<sup>3</sup>:1cft) cleanroom standards.

## **Outer Dimensions (Ceiling Mounting)**







# Motion Range (Ceiling Mounting)



mart [Unit: mm] **Cleanroom-model** 





RS3-351*
175
175
±225
±225

SCARA robots

6-axis robots

Robot controllers