

Basic specifications

Item	Model	RCX221	RCX221HP	RCX222	RCX222HP
Basic specifications	Number of controllable axes	2 axes maximum			
	Controllable robots	Single-axis robot FLIP-X, Linear motor single-axis robot PHASER, Cartesian robot XY-X, Pick & place robot YP-X		Single-axis robot FLIP-X, Cartesian robot XY-X, Pick & place robot YP-X	
	Connected motor capacity	2 axes total: 800W or less	2 axes total: 900W to 1200W	2 axes total: 800W or less	2 axes total: 900W to 1200W
	Maximum power consumption	1700VA	2400VA	1700VA	2400VA
	Dimensions	W130 × H210 × D158mm			
	Weight	Approx. 2.9kg	Approx. 3.1kg	Approx. 2.9kg	Approx. 3.1kg
	Input power supply	Control power supply	Single phase AC200 to 230V +/-10% maximum (50/60Hz)		
Motor power		Single phase AC200 to 230V +/-10% maximum (50/60Hz)			
Axis control	Drive method	AC full-digital software servo			
	Position detection method	Resolver, Magnetic linear scale		Multi-turn resolver with data backup function	
	Operating method	PTP (Point to Point), Linear interpolation, Circular interpolation, Arch motion			
	Coordinate system	Joint coordinates, Cartesian coordinates			
	Position indication units	Pulses, mm (millimeters), deg (degrees)			
	Speed setting	1% to 100% (In units of 1%. However speed is in units of 0.01% during single-axis operation by DRIVE statement.)			
	Acceleration setting	1. Automatic acceleration setting based on robot model type and end mass parameter 2. Setting based on acceleration and deceleration parameter (Setting by 1% unit)			
	Resolution	1μm		16384 P/rev	
	Origin search method	Incremental / Semi-absolute		Absolute / Incremental	
Program	Program language	YAMAHA BASIC (Conforming to JIS B8439 SLIM Language)			
	Multitasks	8 tasks maximum			
	Sequence program	1 program			
	Point-data input method	Manual data input (coordinate value input), Direct teaching, Teaching playback			
Memory	Memory capacity	364KB (total capacity of program and points) (available program capacity during use of maximum number of points is 84KB)			
	Programs	100 program 9,999: maximum lines per program 98KB: maximum capacity per program			
	Points	10,000 points : maximum numbers of points			
	Memory Backup battery	Lithium metallic battery (service life 4 years at 0°C to 40°C)			
	External memory backup	SD memory card			