Desktop Dispensing Robot

JR-V2000 Series

A new, low-cost, high-performance dispensing robot for the Asian manufacturing market!

■ **Smooth Movement**
Micro-step control makes for smooth operation with minimal vibration.

■ **Consistent Linear Dispensing**
Dispenses consistently in a line from start to finish, without skipping over the tip of the starting point. Also settable for thicker dispensing at the starting point.

■ **Anti-spraying**
Prevents the dispensing liquid from spraying, a common occurrence at the end of dispensing jobs.

■ **Anti-stringing**
Set a waiting time after dispensing or lower the Z-Axis' acceleration rate to stop the dispensing flow cleanly, and prevent any end-of-job stringing from the nozzle tip.

■ **Fill-in Function**
Includes functions for rectangular (zigzag/spiral) and circular fill-in dispensing.

■ **Dispensing Liquid Purging**
Equipped with a purge switch that prevents nozzle clogging by flushing out excess dispensing liquid. You can also set the robot to automatically purge the nozzle after each dispensing cycle.

■ **Automatic Nozzle Position Adjustment (Optional)**
The optional Needle Adjuster 2 accessory automatically corrects nozzle misalignment, returning it to its operating position.
*Compatible with needle sizes ϕ 0.20mm - ϕ 2.5mm

◆Specifications

		JR-V2203	JR-V2303
Number of Axes *1		3 (Synchronous Control)	3 (Synchronous Control)
Operating Range	X and Y-Axes	200×200mm	300×320mm
	Z-Axis	50mm	50mm
Maximum Portable Load	Workpiece	5kg	5kg
	Tool	2kg	2kg
Max. Speed (PTP Drive) *2 ( )= Settable Speed Range	X and Y-Axes	500mm/sec （5-500mm/sec)	500mm/sec （5-500mm/sec)
	Z-Axis	200mm/sec （2-200mm/sec)	200mm/sec （2-200mm/sec)
Max. Speed（CP Drive) *2 ( )= Settable Speed Range	X, Y, Z combined speed	200mm/sec （0.1-200mm/sec）	200mm/sec（0.1-200mm/sec）
Repeatability *3	X and Y-Axes	±0.01mm	±0.01mm
	Z-Axis	±0.01mm	±0.01mm
External Dimensions (excl. cables and protrusions)		W320×D364×H549mm	W560×D511×H609mm
Body Weight		17kg	30kg
Control Method		PTP（Point to Point)、CP（Continuous Path）	
Interpolation		3-dimensional linear and arc interpolation	
Teaching Method		Remote Teaching (JOG), Manual Data Input (MDI)	
Teaching System		JR C-Points Software	
Teaching Pattern		Direct teaching using the optional teaching pendant Offline teaching using a PC (optional)	
Screen Display Options	Measurement Unit	mm, inch	
	Language	Japanese, English, Korean, Simplified Chinese	
Program Capacity		255 programs	
Database Capacity		Up to 30,000 points	
External Interface		Teaching Pendant port (RS422) PC port (RS232C)	
External Input/Output		I/O-SYS 8 Inputs/8 Outputs I/O-DSP 1 Input/2 Output (including 1 relay output)	
Simple PLC Function		100 programs (1,000 steps/program)	
Power Source		AC90-132V/ AC180-250V (single phase)	
Power Consumption		150W	
Operating Environment Temperature		0 - 40℃	
Relative Humidity		20-90% (non condensing)	
Storage Temperature		－10℃ - 50℃	

＜Notes＞

*1 Some limitations based upon drive conditions.

*2 Maximum speed can vary depending on conditions. The robot cannot reach maximum speed when bearing the maximum portable load.

*3 Repeatability measured at a constant temperature, so absolute precision is not guaranteed.

*4 Point data memory capacity reduces as additional function data settings/point job data/sequencer data are added, due to the shared data storage area.

＜Standard Accessories＞

・Power Cable ・Operation Manual（CD-ROM）

＜Options＞

・Teaching Pendant ・Needle Adjusters (2) ・I/O-SYS Cable, I/O-DSP Cable

・Software（JR C-Points）Windows®2000/XP/7(32bit recommended)

● Specifications may change without notice to improve product quality.

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