Desktop Robot 2000N series

Desktop Robot 2000N series allow the user to establish very accurate and repeatable dispensing processes with precise positioning function.

- Smooth movement attained with the micro-step control system
- A special labyrinth mechanism underneath the work table keeps foreign objects out
- A broad interface enhances flexibility.

Enhanced lineup with an operation range between 200mm×200mm and 510mm×510mm

2200N mini Series

Low-cost cell production

2300N Series

With an operation range of 300×320mm, 2 screw feeders can now be installed

2400N Series ／ 2500N Series

The wide operation range 400×400mm allows large workpieces to be easily moved

This photograph is of the 2400N series.

★Please contact us for the external dimensions of the JR2500N.

■ Specifications

Item \ Model※1		3-Axis type(synchronous control)				4-Axis type(synchronous control)			
		2203N	2303N	2403N	2503N	2204N	2304N	2404N	2504N
Operation range	X-and Y-Axes	200mm×200mm	300mm×320mm	400mm×400mm	510mm×510mm	200mm×200mm	300mm×320mm	400mm×400m	510mm×510mm
	Z-Axis	50mm	100mm	150mm	150mm	50mm	100mm	150mm	150mm
	R-Axis	—	—	—	—	±360°	±360°	±360°	±360°
Portable weight※2	Workpiece	7kg	11kg	11kg	11kg	7kg	11kg	11kg	11kg
	Tool	3.5kg	6kg	6kg	6kg	3.5kg	6kg	6kg	6kg
Maximum speed (PTP)※3	X-and Y-Axes	7~700mm/sec	8~800mm/sec	8~800mm/sec	8~800mm/sec	7~700mm/sec	8~800mm/sec	8~800mm/sec	8~800mm/sec
	Z-Axis	2.5~250mm/sec	3.2~320mm/sec	3.2~320mm/sec	3.2~320mm/sec	2.5~250mm/sec	3.2~320mm/sec	3.2~320mm/sec	3.2~320mm/sec
	R-Axis	—	—	—	—	6~600°/sec	8~800°/sec	8~800°/sec	8~800°/sec
Maximum speed (CP)※3	XYZcombined speed	0.1~500mm/sec	0.1~800mm/sec	0.1~800mm/sec	0.1~800mm/sec	0.1~500mm/sec	0.1~800mm/sec	0.1~800mm/sec	0.1~800mm/sec
Acceptable moment of inertia		—	—	—	—	65kg·㎡	90kg·㎡	90kg·㎡	90kg·㎡
Resolution	X-and Y-Axes	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm
	Z-Axis	0.0025mm	0.0025mm	0.0025mm	0.0025mm	0.0025mm	0.0025mm	0.0025mm	0.0025mm
	R-Axis	—	—	—	—	0.009°	0.009°	0.009°	0.009°
Repeatability※4	X-and Y-Axes	±0.006mm	±0.007mm	±0.007mm	±0.008mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm
	Z-Axis	±0.006mm	±0.007mm	±0.007mm	±0.008mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm
	R-Axis	—	—	—	—	±0.004°	±0.004°	±0.004°	±0.004°
Dimensions(W×D×H)		320×380×540 (mm)	560×530×650 (mm)	590×630×800 (mm)	680×730×800 (mm)	320×380×540 (mm)	560×530×650 (mm)	590×630×800 (mm)	680×730×800 (mm)
Body weight		18kg	35kg	42kg	43kg	18kg	35kg	42kg	43kg
Power source		90AC~132V / 180AC~250V (single-phase)							
Power consumption		200VA							
Teaching system		JANOME original software JR C-Points: A simple and broad-use teaching system ● simple: Easy teaching just by registering positions and parameters. Optional system programs are available for basic operations and various applications. ● Broad-use: User-oriented programming such as I/O control etc. by point job teaching.							
Teaching pattern		● Direct teaching using a teaching pendant (optional) ● Off-line teaching using JR C-Points (PC software) via a PC (optional)							
Program capacity		255 programs							
Data capacity※5		Maximum 30,000 points							
External interface		RS232C 1ch (for a PC: COM1) RS232C 2ch (for external devices: COM2, COM3)(optional) RS422C 1ch (for a teaching pendant)							

※1 A 2-axis type is also available. (Please contact us for specifications.) ※2 Maximum portable weight (tool/workpiece): JR2202N(6.5kg/7.0kg), JR2302N/JR2402N/JR2502N(10kg/11kg)
※3 Maximum speed may vary depending on conditions. Maximum speed cannot be achieved under the maximum portable weight setting.
※4 Repeatability was measured at a constant temperature, so absolute precision is not guaranteed. ※5 The point date capacity will be reduced if the additional function date setting/point job date/sequencer date increases, due to the shared data storage area. ● Models with CE specifications are also available.