JANOME

Janome's
PCB Depaneling Desktop Robot
- JR2000NERT Series -

"Drive away defective items!"

All-in-one package

The robot unit, electric router, special software, and dust collecting kit are included in a package!

Minimizes defective items

The double-check system with the position error detection function of the robot and the router bit sharpness checking function minimizes defective items！

Several sizes available

5 different models with different operating ranges to meet your production needs.

Simple teaching

Interactive teaching common to the JR Series is easy for anyone!　Simply enter the preset items one by one; now it's ready to run!

		JR2203NERT	JR2303NERT	JR2403NERT	JR2503NERT[*6]	JR2603NERT[*6][*7]
Operating Range	X and Y-Axes	200×200mm	300×320mm	400×400mm	510×510mm	510×620mm
	Z-Axis	50mm	100mm	100mm	100mm	100mm
Board Cutting Range (limit values)	X and Y-Axes	200×195mm	300×320mm	400×400mm	510×510mm	510×620mm
	Z-Axis	45mm	95mm	95mm	95mm	95mm
Max. Speed (PTP Drive) [*1] ( ) = Settable Speed Range	X and Y-Axes	700mm/sec （7～700mm/sec）	800mm/sec （8～800mm/sec）			
	Z-Axis	250mm/sec （2.5～250mm/sec）	320mm/sec （3.2～320mm/sec）			
Max. Speed (CP Drive) [*1] ( ) = Settable Speed Range	X, Y, Z combined	500mm/sec （0.1～500mm/sec）	800mm/sec （0.1～800mm/sec）			
Repeatability [*2]	X and Y-Axes	±0.006mm	±0.007mm		±0.008mm	±0.008mm
	Z-Axis	±0.006mm	±0.007mm		±0.008mm	±0.008mm
External Dimensions (excl. cables and protrusions)		W350×D436×H615mm	W585×D580×H650mm	W646×D641×H650mm	W690×D731×H650mm	W788×D731×H800mm
Body Weight		26kg	39kg	47kg	50kg	53kg
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 via optional teaching pendant; Offline via PC (optional)				
Display Options	Unit	mm, inch				
	Language	English, Japanese, German, Italian, Spanish, French, Korean, Simplified Chinese, Czech, Vietnamese				
Program Capacity		255 Programs				
Database Capacity [*3]		30,000 Points				
External Interfaces		RS422　1ch　(Teaching Pendant) RS232C　1ch　(PC COM1) RS232C　2ch　(External Devices　COM2, COM3) (Optional)				
External Input/Output		I/O-SYS　16 Inputs/ 16 Outputs (for dedicated PCB depaneling I/O cable connection) I/O-1　8 Inputs/ 8 Outputs (Including 4 relay outputs) (Optional)				
Power Supply		AC90～132V/ AC180～250V (single phase)				
Power Consumption		340VA				
Operating Environment Temperature		0～40℃				
Relative Humidity		20～90%　(non condensing)				
Supplied Air Pressure [*4]		0.5Mpa（5kgf/cm^2）　※Dry air				
Air Consumption [*5]		200Nℓ/min or more				
Spindle Motor	Drive Method	DC Brushless Motor				
	Max. Output	21W				
	Rated Rotation Speed	40,000r/min				
	Chuck	Collet Chuck Method (φ3.175mm)				
Router Bit Gauge		φ0.8mm				
Vacuum		Ejector Method				
Applicable Board Materials		Glass Epoxy,　Paper Phenol, etc. (maximum board thickness 1.6mm)				

<Notes>

*1 Maximum speed can vary depending upon conditions.

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

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

*4 Be sure to use only dry air. Air containing moisture or oil can damage the device.

*5 If the air volume is low, the vacuum will lose pressure, thereby reducing its dust collection efficiency.

*6 The JR2503NERT Type and the JR2603NERT Type are not declared CE compliant for import into the EEA.

*7 JR2603NERT does not come with a safety cover. Please prepare on the end-user side.

<Standard Accessories>

・Power Cable (2m)　・Spindle Motor Set　・Router Bits Set (Cutter Set)　・Dust Collection Set (Filter, Binders, Ejector)　・Filter Box
・Spare Vacuum Nozzle　・Switch Box　・Simple Safety Cover (JR2603NERT excluded)　・Operation Manual (CD-ROM)

<Options>

・Teaching Pendant　・I/O-1 Cable　・Software (JR C-Points) Windows® XP/ Windows® 7

● Product specifications and appearance may change without notice to improve product quality.

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