

PC board depaneling robot CAST-MR4





User friendly, desktop size, high-precision separator specifically for small boards. Allows accurate, dust free and clean cut processing

- A cutting method using an electric router that places minimal stress on mounted PWBs
- The spindle motor load indicator unit included as standard
- A unique vacuum suction unit to pick up cutting residue
- Compact size that can be easily incorporated into the workplace

Janome Sewing Machine Co., Ltd.

**■**Unit Specifications CAST-MR4

Movement range	X axis	200 mm		
	Y axis	210 mm		
	Z axis	70 mm		
Maximum speed*1	X axis	600 mm/s		
	Y axis	600 mm/s		
	Z axis	150 mm/s		
Positioning repeatability (accuracy)*2	X axis	± 0.01 mm		
	Y axis	± 0.01 mm		
	Z axis	± 0.02 mm		
Maximum load	Work piece (Y axis)	7 kg		
Supplied air		0.5 MPa (5 kgf/cm²) Dry air *3		
		Air consumption 200 NI/min <sup>-4</sup>		
Unit mass		Approx. 20 kg		
Ambient operating temperature		0 - 40 °C		
Transport and storage temperature		-10 to 60 °C		
Power supply voltage		AC 100 - 120 V ± 10%, AC 200 - 240 V ± 10%, 50/60 Hz		
Power consumption		440 VA		
Grounding		Type D grounding		

<sup>1.</sup> Speed can be set. May not reach the specified value depending on the travel distance. \*2. Conditions: Temperature 20 ± 0.2 °C measured from one direction. \*3. Use dry air to prevent damage to air devices. \*4. Supply 200 NI/min or more to avoid drop in vacuuming capability.

## Control Specifications

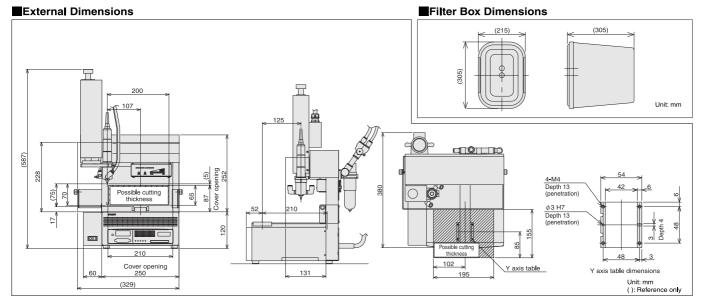
Drive method	5-phase pulse motor (open loop control)		
Movement method	PTP. CP		
Control axis count	Simultaneous control of 3 axes		
Speed control	For cutting 1 - 100 mm/s (linear, circular arc interpolation) <sup>5</sup>		
Interpolation function	3D linear interpolation, 3D circular arc interpolation		
Teaching method	Direct teaching using teaching pendant (optional) Off-line teaching using a personal computer (optional)		
Program capacity	Max. of 40 work programs <sup>*6</sup>		
Point data storage capacity	Max. of 2,500 points <sup>-7</sup>		
Programming method	Standard accessory memory card (RK card)		

<sup>\*5.</sup> Max. speed may vary depending on cutting conditions such as the board material. \*6. Work program is a program of point data of different work positions. \*7. At max. of 40 work programs, the number of available point data is 60, not the number of max. points.

## ■Depaneling Specifications

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rive method	DC brushless motor			
ated output	21 W			
ated rotation rate	40,000 r/min (fixed)			
astener	Collet chuck ( $\phi$ 3.175 mm) $^{\circ}$ 8			
t diameter)	Standard $\phi$ 0.8 mm, Left twist '9			
	Vacuum ejector method			
	Collection filter capacity 6,000 cm <sup>3</sup> (filter exchange method)			
	155 x 195 mm (maximum)			
ness	1.6 mm (maximum)			
rial	Glass epoxy, paper phenol laminate, etc.			
1	0.2 mm (target value)			
ri	ive method ited output ited rotation rate stener diameter)  ess ial			

<sup>\*8.</sup> One-touch-lever enables replacement of the bit without use of any tools. \*9. Ten bits provided as standard. These are consumables therefore warranty is not applicable.



⚠ Safety Notice: For your safety, please read the operation manual carefully before using the product.

Specifications and appearance are subject to change without prior notice.

## Janome Sewing Machine Co., Ltd.

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