

Model		MDX-50
Acceptable materials		Resins such as chemical wood and modelling wax, wood (metal not supported)
Operating range		X: 400 mm (15.80 in) Y: 305 mm (12 in) Z: 135 mm (5.3 in)
Table size		W: 400 mm (15.8 in) D: 305 mm (12 in)
Loadable workpiece size		X: 400 mm (15.8 in) Y: 305 mm (12 in) Z: 100 mm (3.9 in)
Axis drive		Stepper Motor
Feed rate		XY: 7 to 3600 mm/min Z: 7 to 3000 mm/min
Software resolution		RML-1: 0.001 mm/step NC code: 0.001 mm/step
Mechanical resolution		0.01 mm/step (0.39 mil/step; half step)
Spindle motor		Brushless DC motor
Spindle rotation speed		4500 ~ 15000 rpm
Tool chuck		Collet
Tool Change Method		Automatic Tool Changer (ATC)
ATC Magazine Capacity		5 Tools + 1 Detection pin (6 Position Capacity)
Tool Shank Diameter		6 mm, 4 mm using ZH-4 tool holder, 3 mm using ZH-3 tool holder
Dust box dimensions		600 x 700 x 95 mm
Interface		USB
Power requirements (VAC/A)		AC 100 to 240 V ±10%, 50/60 Hz, 1.2 A (Overvoltage Category: II, IEC 60664-1)
Power consumption		Approx. 95 W
Acoustic noise level (dB)	During operation	60 dB (A) or less (when not cutting)
	During standby	45 dB (A) or less
External Dimensions		760 (W) x 900 (D) x 732 (H) mm (29.92 x 35.43 x 28.82 in)
Weight		122 kg (269 lb)
Installation environment		Indoor use, Altitude: Up to 2000 m (6562 ft.), Temperature: 5 to 40 °C (41 to 104°F), Humidity: 35 to 80 % (no condensation), Ambient pollution degree: 2 (as specified by IEC 60664-1), Short-term temporary overvoltage: 1440 V, Long-term temporary overvoltage: 490 V
Included items		Power cable, USB cable, manual, Roland DG Software Package CD, detection pin, hexagonal screwdriver, hexagonal wrench, wrench, tool holder, tool positioner, Z0 sensor

Optional ZCL-50A Rotary Axis Unit		
Operating range		X: 363mm - Machine Coordinates 37 to 400 mm Y: 305 mm Z: 125 mm A: ±2,146,680° (approximately ±5963 rotations)
Loadable workpiece thickness		Maximum material diagonal of 120 mm
Loadable workpiece length		380 mm
Workpiece clamp thickness		10 to 65 mm or 20 to 68 mm Diameter
A axis motor		Stepper Motor
Mechanical Resolution		0.0225°/step (half step)
Dimensions	Width x Depth x Height:	578 x 190 x 128 mm
Weight		7 kg (15.43 lb)
Included Items		Detection bar, cap screws, User's Manual

System Requirements	
OS	Windows 10, 8.1, 7 (32- or 64-bit version)*1,*2,*3
CPU	Minimum required CPU for the operating system
Memory	Minimum amount of required RAM for the operating system
Optical drive	CD-ROM drive
Video card and monitor	A display with at least 16-bit colour and a resolution of 1024 x 768 or more is recommended.

(\*1) This software is a 32-bit application and therefore runs in WOW64 (Windows-On-Windows 64) when running on 64-bit versions of Windows operating systems.

(\*2) Internet Explorer 8.0 or later is required.

(\*3) Operations have not been verified in virtual Windows environments such as Hyper-V and Virtual PC.

Specifications, designs and dimensions listed may be subject to change without notice.