

MODEL		MDX-50
Acceptable materials*		Resins such as chemical wood and modeling wax (metal not supported)
Operating range		X: 15.80in (400mm) Y: 12.00in (305mm) Z: 5.315in (135mm)
Table size		W: 15.80in (400mm) D: 12.00in (305mm)
Loadable workpiece size		X: 15.80in (400mm) Y: 12.00in (305mm) Z: 3.90in (100mm)
Axis drive		Stepper Motor
Feed rate		XY: 0.3in to 141.7 in/min (7 to 3600mm/min) Z: 0.3 to 118.1 in/min (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		0.250in, 0.125in (6.35, 3.175mm)
Operating noise		During operation
Dust box dimensions		23.62 x 27.65 x 3.74in (600 x 700 x 95mm)
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 (W)		≈ 95W
Acoustic noise level (dB)	No-load operation:	60 dB (A) or less
	Standby:	45 dB (A) or less
External Dimensions	Width X Depth x Height:	29.92 x 35.43 x 28.82 in (760 x 900 x 732 mm)
Weight		269lb (122kg)
Installation environment	Indoor use at altitudes	Up to 6500ft (2000 m)
	Temperature	41 to 104°F (5 to 40°C)
	Humidity	35 to 80%RH (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 cord, 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: 14.29 in (363mm) - Machine Coordinates 1.46 to 15.75 in (37 to 400 mm) Y: 12.01 in (305 mm) Z: 4.92 in (125 mm) A: A: ±2146680° (approximately ±5963 rotations)
Loadable workpiece size		4.72 in (120mm) - 2.36 in (60mm) maximum radius from center of rotation
Loadable workpiece length		14.96 in (380mm)
Workpiece clamp thickness		0.39 to 2.56 in (10 to 65mm) or 0.79 to 2.68 in (20 to 68mm) Diameter
A axis motor		Stepper Motor
Mechanical Resolution		0.0225°/step (half step)
Dimensions	Width X Depth x Height:	22.76 x 7.48 x 5.04 in (578 x 190 x 128 mm)
Weight		15.43 lb (7kg)
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 color 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.		