Roland MDX-40A

MDX-40A Specifications

Acceptable material		Plastics (ABS, Delrin/Acetal, Nylon, Acrylic), tooling board, wood, and modeling wax (metal not supported)
X, Y, and Z strokes		12.0 (X) x 12.0 (Y) x 4.1 (Z) in. (305 (X) x 305 (Y) x 105 (Z) mm)
Distance from spindle tip to table		Maximum 4.8 in. (123 mm)
Table size		12.0 (W) x 12.0 (D) in. (305 (W) x 305 (D) mm)
Loadable workpiece weight		8.8 lb (4 kg)
XYZ-axis motor		Stepping motor
Feed rate		XY-axis: 0.0039 to 1.9 in./s (0.1 to 50 mm/sec.), Z-axis: 0.0039 to 1.1 in./s (0.1 to 30 mm/sec.)
Software resolution		NC-code: 0.000039 in./step (0.001mm/step), RML-1: 0.01 mm/step (0.00039 in./step)(RML-1)
Mechanical resolution		0.00008 in./step (0.002 mm/step) Micro-step
Spindle motor		Brushless DC motor, Maximum 100 W
Spindle rotation		4500 to 15000 rpm
Tool chuck		Collet
Interface		USB 1.1
Power supply	Voltage and frequency	AC100 to 240 +/-10%, 50/60 Hz
	Required power capacity	2.1 A
Power consumption		Approx. 210 W
Acoustic noise level		No-load operation: 56 dB (A) or less, Standby: 42 dB (A) or less
Dimensions		26.3 (W) x 29.9 (D) x 21.8 (H) in. (669 (W) x 760 (D) x 554 (H) mm)
Weight		143.3 lb (65 kg)
Operation temperature		41 to 104°F (5 to 40°C)
Operation humidity		35 to 80% (no condensation)
Included items		Power cord, power plug adapter, USB cable, collet, Z0 sensor, hexagonal wrench, hexagonal screw drivers, spanners, Roland Software Package CD-ROM, SRP Player CD-ROM, user's manual, SRP Player installation and setup guide

ZCL-40A Specifications

Maximum angle of rotation	$+/-18 \times 10^{5\circ}$ (+/-5000 rotations)
Maximum loadable workpiece size*	4.7 in. (120 mm) diameter by 10.6 in. (270 mm) long
Maximum thickness holdable by workpiece clamp	0.4 to 1.7 in. (10 to 45 mm)
Loadable workpiece weight	2.2 lb (1kg) (including clamps)
Feed rate	0.23-11.79 rpm
Mechanical resolution	0.005625 deg./step (Micro-step)
Dimensions	18.5 (W) x 11.3 (D) x 4.5 (H) in. (470 (W) x 286 (D) x 115 (H) mm)
Weight	16.5 lb (7.5 kg)
Included items	Y-origin sensor, Y-origin detection pin, center drill, live center, hexagonal wrench, cap screws (for securing Z-origin sensor), and user's manual

Software Requirements for Included Software

OS	Windows Vista®(32bit edition) or Windows® XP (32bit edition) and Internet Explorer 6.0 or later
CPU	Pentium® 4, 2.4GHz or faster recommended
RAM	1GB or more recommended
Free hard-disk space	20MB or more recommended
Video card and monitor	A resolution of 1024 x 768 or more recommended, video card compatible with OpenGL recommended, and at least 16-bit highcolor

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