

JWX-10

Maintain Your Design Process While Maximizing Your Productivity

Introducing the newest addition to Roland Digital Workbench product line, the JWX-10 for producing wax jewelry models. The JWX-10 produces models quickly and with precision in house, allowing you to easily make identical models in different sizes, modify designs and reduce errors, time and cost without changing your conventional process of creating jewelry.



JWX-10

Features:

- Engrave wax master models for rings unattended with the included rotary axis
- Able to use CAD-created jewelry designs
- Professional CAM software included
- Compact size fits small spaces
- Create jewelry wax master models quickly with precision
- Low initial investment



Specifications

		JWX-10
Acceptable materials		Resins such as chemical wood and modeling wax (metal not supported)
X, Y, and Z operation strokes		Rotary axis unit uninstalled: 140 (X) x 105 (Y) x 105 (Z) mm [5-1/2 (X) x 4-1/8 (Y) x 4-1/8 (Z) in.] Rotary axis unit installed : 140 (X) x 70.9 (Y) x 60 (Z) mm [5-1/2 (X) x 2-3/4 (Y) x 2-3/8 (Z) in.]
Maximum angle of rotation		$\pm 18 \times 10^{5^\circ}$ (± 5000 rotations)
Distance from spindle tip to work plate		Using work plate large : Maximum 126 mm (4-15/16 in.) Using work plate small : Maximum 40.5 mm (1-5/8 in.)
Work plate size Cutting area		Work plate large : 140 (W) x 105 (D) mm [5-1/2 (W) x 4-1/8 (D) in.] Work plate small : 65 (W) x 65 (D) mm [2-9/16 (W) x 2-9/16 (D) in.]
Dimensions of workpieces installable on the rotary axis unit		Diameter : Maximum 85 mm (3-3/8 in.) Length : 5 to 50 mm (1/4 to 1-15/16 in.) Internal circle : 15 to 23 mm (9/16 to 7/8 in.)
Loadable workpiece weight		Using rotary axis unit : 0.5 Kg (1.1 lb) (Maximum workpiece moment of inertia 6×10^{-4} kgm ²) Using work plate large : 4.0 Kg (8.8 lb) Using work plate small : 0.7 Kg (1.5 lb)
XYZ-axis motor		Stepping motor
Feed rate		XY-axis : 0.1 to 50 mm/sec. (0.0039 to 1.9 in./s) Z-axis : 0.1 to 30 mm/sec. (0.0039 to 1.1 in./s) A-axis : 0.02 to 11.79 rpm
Software resolution		0.01 mm/step (0.00039 in./step)
Mechanical resolution		XYZ-axis : 0.002 mm/step (0.0001 mm/step) A-axis : 0.0225 deg.
Clamping method		Specialized ring-cutting tool
Rotary-axis tilt angle		0 deg. to 90 deg. (in increments of 15 deg.)
Spindle motor		DC brushless motor, Maximum 100W
Spindle rotation		6000 to 20000 rpm
Tool chuck		Cutter holder (4.36mm) and collet
Interface		USB connector, sensor connector, rotary axis unit connector, expansion connector
Power supply	Voltage and frequency	AC100 to 240 \pm 10%, 50/60 Hz
	Required power capacity	2.1 A
Power consumption		Approx. 210W
Acoustic noise level		No-load operation : 60 dB (A) or less, standby : 40 dB (A) or less [According to ISO7779]
Dimensions		440 (W) x 517 (D) x 554 (H) mm [17-3/8 (W) x 20-3/8 (D) x 21-7/8 (H) in.]
Weight		40 Kg (88.2 lb)
Operation temperature		5 to 40°C (41 to 104°F)
Operation humidity		35 to 80% (no condensation)
Accessories		Power cord, collet, cutter, sensor cable, chucking knob, work plate (large), mounting screws for the large work plate, hexagonal wrenches, hexagonal screw drivers, spanners, Roland Software Package CD-ROM, MODELA Player4 CD-ROM, user's manual, Roland Software Package installation and setup guide, MODELA Player4 installation and setup guide

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