

NEW **MODELA MDX-50** *Benchtop CNC Mill*



Introducing the new MDX-50, Roland's most advanced benchtop CNC milling machine ever. The ideal solution for short-runs and prototypes, it combines precise, automated milling with unmatched ease-of-use. By reducing operating time and simplifying production, users of all abilities can mill functional parts with incredible quality on ABS, POM, nylon, plastic foam, modeling wax, chemical wood and more.

With an improved drive system, machine rigidity and enhanced drive mechanics, the MDX-50 mills incredibly smooth and accurate prototypes for testing structure, function, and assembly with other parts. A machining area of 15.7"(400mm) (X) x 12"(305mm) (Y) x 5.3"(135mm) (Z) supports production of large single objects or batch production of smaller multiple parts.

The automated features of the MDX-50 enable users to mill with speed and confidence. Combine the 5-station ATC and optional rotary axis unit for the most automated and precise operation:

- *Auto-sensing function corrects the tool length to ensure milling accuracy for every job*
- *Optional rotary axis for effortless production of complex surfaces:*
 - *Includes a wide, self-centering headstock and tailstock workpiece clamps*
 - *Auto-rotates materials from 0-to-360 degrees. Indexes for 2-sided, 4-sided and custom angles*



Operating range X: 15.75in (400mm) Y: 12.00in (305mm) Z: 5.315in (135mm)

Table size W: 15.75in (400mm) D: 12.00in (305mm)

Loadable workpiece size X: 15.75in (400mm) Y: 12.00in (305mm) Z: 3.90in (100mm)

Optional ZCL-50A Rotary Axis Unit

Operating range X: 14.29 in (363mm) Y: 12.01 in (305 mm) Z: 4.92 in (125 mm)

A: A: $\pm 2146680^\circ$ (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)

Key Features Overview

- *Improved drive system supports dimensional stability – create prototypes with millimeter accuracy*
- *5-tool Automatic Tool Changer - continuous operation without stopping to change tools*
- *Expanded machining area plus enhanced machine rigidity and drive mechanics*
- *Built-in control panel - almost all operations can be completed from the unit itself*
- *Optional Rotary Axis - wider than previous models with self-centering headstock and tailstock workpiece clamps*
- *User-friendly SRP Player CAM and ClickMill software included*
- *Built-in debris collection drawer and newly-designed machine door for safe and clean production*



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