



# 3D Workbench Solutions

## Simpler, More Powerful 3D Scanning And Milling Solutions From Start To Finish

Roland makes your 3D projects come roaring to life with a full line of high performance 3D scanning and milling machines — each designed from the ground up to make product design, benchtop prototyping, reverse engineering, animation and more much easier, whether you're just adding 3D capabilities to your shop or you are already an industry expert. Plus, each comes with a complete software suite to help you get the most out of your new machine.



### Combo Machines — Scan and Mill MDX-15, MDX-20, MDX-40 Desktop Rapid Prototyping.

Benchtop prototyping has never been easier. Ideal for jewelers and product designers on a budget. These desktop machines mill tooling board, resins, and plastics with ease. So you can test form, fit, and function with ease, making them the perfect choices for prototypes, parts, and precision models. While the MDX-15 and MDX-20 models feature scanning and milling in one at a resolution of up to 0.002" scanning and 0.001" milling, the MDX-40 offers unattended 360-degree milling and

accommodates an optional 3D scanning head that uses Roland's innovative Active Piezo Sensor technology — ideal for reverse engineering. Powerful CAM and simulation software included enables you to get started immediately. Work volumes: MDX-15: 6" x 4" x 2.37"; MDX-20: 8" x 6" x 2.37"; MDX-40: 12" x 12" x 4.12". Bundled with MODELA Player4™, MODELA 3D Design™, Dr. PICZA™ and Virtual MODELA™, Dr. Engrave™, and 3D Engrave. **MDX-15 Price: \$2,995 MDX-20 Price: \$4,495 MDX-40 Price: \$10,995**

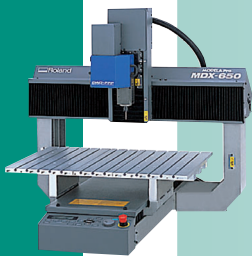


### Milling Machine MDX-650 Benchtop SRP® and CNC Milling.

Turn CAD files into 3D prototypes and molds quickly and inexpensively with virtually no finishing required. These advanced milling machines run on AC Servo motors on all three axes and use Feed Forward Processing technology to mill ABS, modeling wax, aluminum, brass, and other non-ferrous metals with speed and precision. With its optional rotary axis, the MDX-650 can mill an object's full circumference. The Roland Automatic Tool Changer further reduces product development

time and cost by enabling you to run the MDX-650 completely unattended. The MDX-650 mills up to 200 inches per minute at up to 0.000039" step resolution. MDX-650 work volume: 25.59" x 17.72" x 6.10". Bundled with MODELA Player4, MODELA 3D Design, Virtual MODELA, Dr. Engrave™ and 3D Engrave.

**MDX-650 Price: \$23,995**  
**MDX-650 Price: \$29,995 with automatic tool changer**



### Scanning Machine LPX-600 Laser Scanner Automated precision 3D scanning at the touch of a button.

The LPX-600 is the most automated 3D scanning system ever produced. With the touch of a button, the 3D laser scanner scans objects up to 16" tall and 10" in diameter. Its advanced non-contact laser sensor quickly generates precise models with a

watertight surface and 0.008" scanning resolution. Bundled with EZ Studio reverse modeling software, Dr. PICZA 3 scanning software and 3D Editor editing software.

**LPX-600 Price: \$11,995**



**Roland**  
Advanced Solutions Division





## Supercharge your projects with powerful prototyping and editing suites.

Roland 3D machines come with easy-to-use software that makes it simple to begin using your new scanning and milling tools right out of the box. Each comes complete with step-by-step tutorials and all are designed to work with popular industry standards in a wide range of industries, from product design, to jewelry making, to animation.



**Dr. Engrave™** gets you started fast, automatically sizing your job to fit the specified material. It comes with Windows® TrueType™ fonts and can convert them to single-line fonts for optimal engraving. Plus, it gives you the ability to import Excel™ and CSV database files — useful for nametags and nameplates.



**MODELA Player** makes it possible to scale 3D images uniformly and select milling direction, depth and speed. MODELA Player accepts DXF, IGES, and STL files from all popular CAD/CAM software.

**MODELA 3D Design** gives you the ability to create and add color to 3D objects, such as cylinders and spheres. Import files directly or export MODELA files in 3D DXF format.



**Dr. PICZA** is a comprehensive, dedicated scanning software that reduces data volume by minimizing resolution on all or part of the captured data. It can also rescan part of the object at a finer scanning pitch and automatically combine it with the original data. It supports an array of data formats, including DXF, STL, 3DMF, gray scale BMP, and can export as IGES files.

**Virtual MODELA** simulates finished 3D models and accurately estimates machining production time. Add lighting effects, material color, and bitmap overlays to simulate finished products.



**LPX EZ Studio** Roland's bundled LPX EZ Studio software streamlines the 3D scan and data editing process. Its powerful scan/align/merge function lets engineers generate watertight mesh surface models with the touch of a button. The software supports a wide range of data output formats, including STL, PIX and 3DM. STL files are used by the industry's most popular rapid prototyping systems, including those manufactured by Roland, 3D Systems, Stratasys, Z-Corp and Solidscape.



Roland reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland dealer for details. No guarantee or warranty is implied other than expressly stated. Roland shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. All trademarks are the property of their respective owners.

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