



# 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 2.4"; MDX-20: 8" x 6" x 2.4";  
MDX-40: 12" x 12" x 4.1". 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-540 SRP® System Precision Prototyping Made Easy.

The MDX-540 SRP® Series combines precision desktop milling with powerful CAM software, making it easy to produce models with tight mechanical accuracy and a smooth surface. Available in four models, the MDX-540 produces functional prototypes made from popular engineered plastics such as ABS, Delrin, and nylon. These prototypes are well-suited for structural, thermal, and electrical testing and meet a host of FDA and other government regulations.

The MDX-540 can also mill small lot production of intricate metal parts and custom jewelry. Maximum work volume is 19.6" (W) x 15.7" (D) x 6.1" (H)

**MDX-540 Price: \$19,995** (Precision Spindle)  
**MDX-540A Price: \$29,995** (Automatic Tool Changer)  
**MDX-540S Price: \$24,995** (Ultra High-Precision)  
**MDX-540SA Price: \$34,995** (Ultra High-Precision & Automatic Tool Changer)



### Scanning Machine

#### LPX-60/600 Laser Scanner Automated precision 3D scanning at the touch of a button.

Stop wasting hours cleaning up scanned data! With the touch of a button, LPX Series 3D laser scanners can generate a detailed CAD model with a 0.008-inch resolution and a watertight surface. Bundled LPX EZ Studio reverse engineering software automatically scans, fills holes, aligns, decimates and merges planes of 3D models. The LPX-600 scans

objects up to 16" tall and 10" in diameter, while the LPX-60 scans objects up to 12" tall and 8" in diameter. Both enable designers to scan complex, organic shapes for a wide variety of CAD/CAM applications.

**LPX-600 Price: \$11,995**  
**LPX-60 Price: \$7,995**

**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 4** is a CAM software application that accepts IGES, DXF and STL files exported from the most popular industrial 3D CAD software programs. It is used to generate proportional 3D scaling, identify milling direction and automatically generate and display the tool path. MODELA Player 4 supports tool changing when used with the Automatic Tool Changer (ATC) and automatic side cutting when used with the Rotary Axis Unit.

**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, 3DM, and point cloud. 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.

**SRP Player** The MDX-540 comes complete with SRP Player. The new CAM software automates the prototyping process and generates tool paths with high speed and precision. The user-friendly, wizard-based program offers uniform 3D scaling, support for 4-axis milling and simulation of finished 3D parts. The end result is faster prototype production, tighter dimensional accuracies and a smooth surface finish.

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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