Roland 3D Machines

Roland is an established leader in the manufacture of 3D scanning and milling machines for a wide variety of industries, including Computer Aided Manufacturing (CAM), Subtractive Rapid Prototyping (SRP™), reverse engineering, 3D modeling and mold making. Each and every device is designed to establish a new benchmark for performance and price. Powerful, easy-to-use software compatible with industry standards is included in the price of the machines.

Scanning Machines

PIX-4 $1,995 US
PIX-30 $3,495 US

PIX-4 and PIX-30 Precision Desktop 3D Scanning

PIX-4 and PIX-30 3D scanners use RAPS (Roland Active Piezo Sensor) technology to generate wire-frame models for reverse engineering, rapid prototyping, and computer graphics and animation. The PIX-30 has a maximum work area of 12" x 8", and the PIX-4 has a maximum work area of 6" x 4". Both have a Z-axis height of 2.38" and a minimum scan pitch of 0.002".

LPX-250 & LPX-1200 Dual Mode Scanning

The LPX 3D laser scanners perform both rotary and plane scanning and include professional software. One button operation allows engineers, designers of prosthetics and other products, animators, and game developers to scan objects quickly and accurately, right on their desktops. The LPX-250 can scan objects up to 10″ diameter by 16″ height at up to 0.008″ resolution while the LPX-1200 can scan objects up to 5″ diameter by 8″ high at up to 0.0039″ resolution. The 1200's powerful software supports robust polygon to NURB surface conversion and editing.

LPX-250 $9,995 US
LPX-1200 $21,995 US

Milling Machines

MDX-500 and MDX-650 Benchtop SRP and CNC Milling

MDX-500 and MDX-650 benchtop milling machines turn CAD files into 3D prototypes and molds quickly and inexpensively with virtually no finishing required. Powered by AC Servo motors on all three axes, they 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 the full circumference of objects. The Roland Automatic Tool Changer (ATC) further reduces the time and cost associated with product development by enabling the MDX-650 to mill prototypes completely unattended. Both MDX machines mill up to 200 inches per minute at up to 0.00039"/step resolution. The MDX-650 has a maximum work area of 25.56" x 17.69" x 6.06", and the MDX-500 has a maximum work area of 19.63" x 12.94" x 4.13".
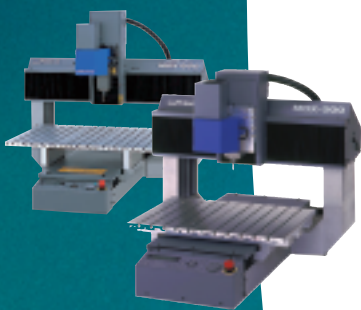
MDX-500 $19,995 US
MDX-650 $23,995 US

Combo Machines – Scan and Mill

MDX-15 and MDX-20 Desktop Rapid Prototyping

MDX-15 and MDX-20 desktop milling machines are ideal for jewelers and product designers working on a budget. They mill chemical wood, resin, aluminum and brass and incorporate RAPS technology to scan with a resolution up to 0.002". Maximum work area is 6" x 4" for the MDX-15 and 8" x 6" for the MDX-20. Both have a Z-axis height of 2.38".
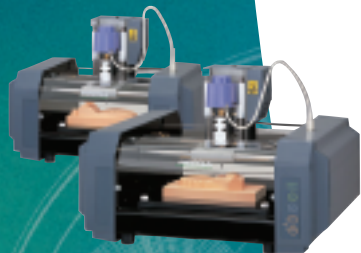
MDX-15 $2,995 US
MDX-20 $4,495 US

Prices subject to change.

doMORE™

Roland Software

FULL SUITE OF POWERFUL, EASY-TO-USE SOFTWARE INCLUDED

Roland 3D scanning and milling machines come complete with a full suite of rapid prototyping and object editing software. Compatible with popular industry standards, these programs help engineers, jewelry makers, product designers and animators get the most out of their machines.

MODELA Player – MODELA Player accepts DXF, IGES and STL files exported from popular CAD/CAM software. It enables uniform 3D scaling and lets users select milling direction, depth and speed.

MODELA 3D Design – MODELA 3D Design enables users to create and add color to 3D objects, such as cylinders and spheres. Files are imported directly to MODELA Player or exported as 3D DXF files.

Dr. PICZA – Dr. PICZA is a comprehensive, dedicated scanning software. Packed with easy-to-use functions, it can reduce data volume by reducing the resolution of all or part of the captured data, or it can rescan part of the object at a finer scanning pitch and automatically combine it with the original data. Dr. PICZA supports an array of data output formats including DXF (CAD data), STL 3DMF (3D format standard), gray scale BMP and coming soon, IGES export ability. Dr. PICZA comes bundled with the PIX-4 and MDX-15/20.

Virtual MODELA – Virtual MODELA simulates finished 3D models and accurately estimates machining production time. Lighting effects, material color and bitmap overlays can be added to represent the finished product.

Pixform™ and Pixform Pro – Pixform software is included with the LPX-250 and allows users to decimate, edit and heal scanned data. You can convert a polygon solid to a NURBS surface in one easy step, then export it as an IGES file to industry standard MCAD software. Included with the LPX-1200, Pixform Pro is loaded with powerful features that make it easier and more efficient to edit 3D models. It allows users to merge scans for increased quality, change the shape around curved surfaces, sharpen edges, extend shapes, add thickness and perform Boolean operations on polygon surfaces.

	MODELA Player	MODELA 3D DESIGN	Dr. PICZA	Virtual MODELA	Pixform™	Pixform Pro
LPX-250			■		■	
LPX-1200			■			■
PIX-4			■			
PIX-30			■			
MDX-650	■	■		■		
MDX-500	■	■		■		
MDX-15	■	■	■	■		
MDX-20	■	■	■	■		

Roland®

Built with precision. Backed with passion.™