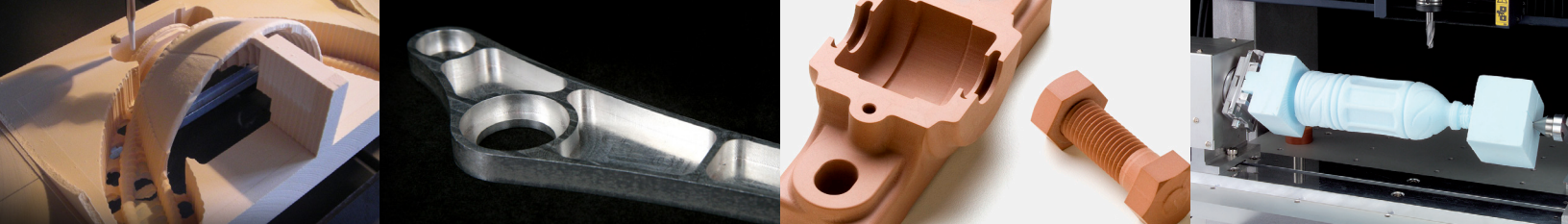


RAPID PROTOTYPING

AND MANUFACTURING SOLUTIONS

Roland subtractive rapid prototyping SRP machines provide snap-fit, functional parts and prototypes milled from a wide variety of materials with smooth surface finishes, tight tolerances and a low cost of ownership. Each comes with a complete software suite to help make your ideas a reality.



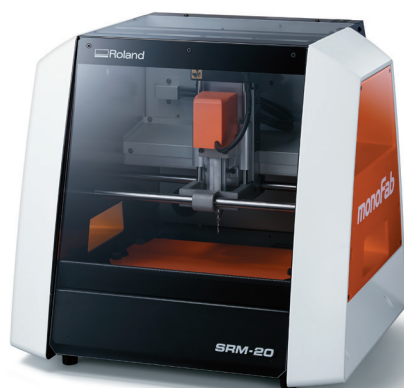


By starting with a solid object and removing unwanted material, Roland's subtractive rapid prototyping (SRP) machines offer unique capabilities compared to 3D printing and several advantages over other rapid prototyping systems.

- **Lower cost of ownership** - With no annual maintenance fees and low cost materials, Roland MDX users save thousands of dollars over the annual cost of other RP systems.
- **Wide range of materials** - Choose from a wide range of non-proprietary materials, including non-ferrous metals, acrylic, chemical wood and popular engineered plastics such as ABS, Delrin and nylon.
- **Smooth surface finish** - Deliver tight tolerances up to ± 0.001 mm and smooth surface finish without post finishing.



For a free white paper comparing additive and subtractive prototyping technologies, visit www.rolanddga.com/SRPWhitePaper.



SRM-20 \$4,995 US

SRM-20 THE NEXT EVOLUTION IN COMPACT MILLING MACHINES

The SRM-20 is Roland's latest generation desktop milling machine for the office, studio and educational environment. Since pioneering desktop milling in 1986, Roland has continued to perfect our expertise in delivering accuracy and efficiency in a compact format. The SRM-20 incorporates innovative features, including a new spindle, collet, circuit boards and control software. The SRM-20 comes with software that includes MODELA Player 4, iModela Creator and ClickMill. The result is a leap forward in milling precision, speed and ease of use.

The SRM-20 can mill a variety of non-proprietary materials typically used for prototyping, including chemical wood, acrylic and modeling wax. Optional collets are also available to extend the mill's capability with a wide range of end mill shapes and sizes, ideal for creating beautiful finishes and intricate details.



MDX-40A \$7,995 US

ZCL-40A ROTARY 4TH AXIS \$3,699 US

MDX-40A MILLING MACHINE

The Roland MDX-40A is a desktop milling system that offers product designers a major value. At less than half the cost of most professional additive systems, the MDX-40A produces prototypes out of a wider variety of non-proprietary materials with greater precision and better surface finish. The MDX-40A has a large 12" x 12" x 4.1" maximum work volume without rotary axis, and an optional 4th rotary axis that allows unattended 360° milling and supports materials up to 10.6" long by 4.7" in diameter. An optional 3D scanning head that uses Roland's innovative Active Piezo Sensor technology - ideal for reverse engineering - is also available. Included powerful CAM and simulation software lets you get started immediately. Bundled with ClickMill™, SRP Player, Virtual MODELA®, Dr. Engrave™, and 3D Engrave software.



For video tutorials on producing 3D prototypes visit www.rolanddga.com/3Dprototypes.

“Roland's MDX has allowed us to accelerate the product development process dramatically. It has allowed us to cost effectively make parts that I would have previously considered unattainable. We rely on it to get our products to market quickly.”

Joe Matteo, Entrepreneur, Walland, TN



For complete case studies on SRP products, visit www.rolanddga.com/gallery/RapidPrototyping.



MDX-540 SRP® SYSTEM PRECISION PROTOTYPING MACHINE

The MDX-540 SRP System combines precision desktop milling with powerful CAM software, making it easy to produce prototypes with industry-leading speed and accuracy. The MDX-540 mills a wide variety of nonproprietary materials and popular engineered plastics such as ABS, Delrin® and nylon. This advanced benchtop device creates functional prototypes ideal for structural, thermal, and electrical testing. It even produces non-ferrous metal rapid injection molds. MDX “S” models deliver ultra-smooth surfaces and higher repeat accuracy for optics, metal molds and other high tolerance applications.

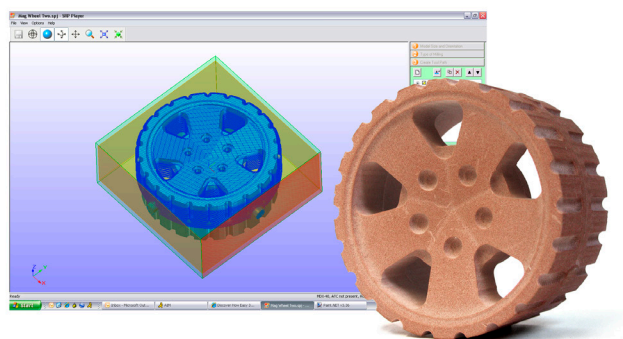
MDX-540 \$20,995 US

MDX-540S \$26,995 US (High Precision)

MDX-540A \$31,995 US (Automatic Tool Changer)

MDX-540SA \$36,995 US (High Precision with Automatic Tool Changer)

Standard with the MDX-40A and MDX-540 milling machines, SRP Player software is ideal for rapid prototyping and custom rapid manufacturing applications.



- Optimum tool paths for each application for surface or polygon data
- Produces flawless shapes with smooth, accurate curves
- Extends the lifespan of tools by reducing their load
- Cuts only desired sections, producing shapes with maximum efficiency
- Detailed parameter settings ensure professional precision and quality
- Easy-to-use, intuitive operation
- Compatible with all Roland MDX Series milling devices



PRODUCT SPECIFICATIONS

MODEL	SRM-20	MDX-40A	MDX-540	
Max Work Area	8.0"(X) x 6.0"(Y) x 2.38"(Z) 203.2mm x 152.4mm x 60.96mm	12.0"(X) x 12.0"(Y) x 4.1"(Z) 305 x 305 x 105 mm	MDX-540 19.7"(X) x 15.7"(Y) x 6.1"(Z) 500mm x 400mm x 155mm MDX-540A 15.7"(X) x 15.7"(Y) x 6.1"(Z) 400mm x 400mm x 155mm	MDX-540S 19.7" (X) x 15.7" (Y) x 6.1" (Z) 500mm x 400mm x 155mm MDX-540SA 15.7"(X) x 15.7"(Y) x 6.1"(Z) 400mm x 400mm x 155mm
Rotary Axis	N/A	4.7" Diameter x 10.6" Long 60mm x 270mm	7.0" Diameter x 14.6" Long 180mm x 371mm	
Rotary Axis Unit	NA	Optional	Optional	
Max Feed Rate	70.9 ipm (30mm/sec.)	XY-axis: 188 ipm (50 mm/sec.) Z-axis: 70.9 ipm (30 mm/sec.)	295 ipm (125mm/sec)	
Spindle Motor	DC motor Type 380	Brushless DC motor, Maximum 100 W	400W	
Spindle Speed	Adjustable 3000-7000 rpm	4500 to 15000 rpm	400 - 12,000 rpm	
Largest Tool Diameter	1/8"	1/4"	MDX-540 3/8" (10mm) MDX-540A 1/4" (7mm) optional: 3/8" (10mm)	MDX-540S 3/8" (10mm) MDX-540SA 1/4" (7mm) optional: 3/8" (10mm)
Scanning Probe	N/A	Optional	N/A	
Scanning Resolution	N/A	0.002" (.05mm)	N/A	
Scanning Method	N/A	Contact Roland Active Piezo Sensor	N/A	
Interface	USB	USB	USB	
Power Supply	AC 100 to 240 \pm 10%, 50/60 Hz (2.1 A)	AC100 to 240 \pm 10%, 2.1 A; 50/60 Hz (Overvoltage category II, IEC 60664-1)	AC 100 to 120V (7A) or 220 to 240V (4A)	
External Dimensions	17.76"(W) x 16.80"(D) x 16.78"(H); 451mm x 427mm x 426mm	26.4"(W) x 30"(D) x 21.9"(H); 669mm x 760mm x 554mm	MDX-540 29.3"(W) x 37.6"(D) x 33.8"(H); 745mm x 955mm x 858mm MDX-540A 29.3"(W) x 37.6"(D) x 33.8"(H);745mm x 955mm x 858mm	MDX-540S – 30.1"(W) x 37.6"(D) x 33.8"(H); 765mm x 955mm x 858mm MDX-540SA 30.1"(W) x 37.6"(D) x 33.8"(H) 765mm x 955mm x 858mm
Bundled Software	V-Panel for SRM-20, MODELA Player 4, iModela Creator, ClickMill	ClickMill, SRP Player, Virtual MODELA, Dr. Engrave, 3D Engrave	SRP Player, 3D Engrave, Dr. Engrave	
Supported Machine Code	RML & G-Code	RML & G-Code	RML & G-Code	
SRM Driver	Windows 7 or More 32/64bit			

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FOR COMPLETE PRODUCT SPECIFICATIONS, FEATURES, CUSTOMER TESTIMONIALS AND CASE STUDIES, VISIT WWW.ROLANDDGA.COM/3D

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