



FAST, EASY AND AFFORDABLE RAPID PROTOTYPING

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 turn your ideas into reality.





By starting with a solid object and removing unwanted material, Roland desktop and benchtop milling machines enable engineers and designers to produce highly accurate, functional parts and snap-fit prototypes quickly and inexpensively from a wide range of materials and software. Advantages include:

- **Low cost of ownership** - With no annual maintenance fees and low cost materials, Roland milling machines can save users thousands of dollars on outsourcing or operating expenses compared to other machines.
- **Wide range of materials** - Choose from a wide range of non-proprietary materials, including non-ferrous metals, acrylics, chemical woods and popular engineered plastics such as ABS, Delrin and nylon.
- **Smooth surface finish** - Deliver tight tolerances up to +/- 0.02 mm and a smooth surface finish without post finishing.

SRM-20 THE NEXT EVOLUTION IN COMPACT MILLING MACHINES



SRM-20 \$4,995 US

The monoFab™ 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 deliver 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 a package of advanced yet user-friendly CAM and production software that includes SRP Player, 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, which are ideal for creating beautiful finishes and intricate details.



To see the SRM-20 in action, watch the video at www.rolanddga.com/SRM20

MDX-40A MILLING MACHINE



MDX-40A \$7,995 US

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

The Roland MDX-40A is a desktop milling system that offers production designers 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 a better surface finish. The MDX-40A has a large 12" x 12" x 4.1" maximum work volume without the rotary axis installed 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. Bundled with the MDX-40A is powerful CAM and simulation software that lets you get started immediately. This software includes SRP player, Virtual MODELA®, ClickMill™, Dr.Engrave™ and 3D Engrave.

“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 non-proprietary 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 low tolerance applications.

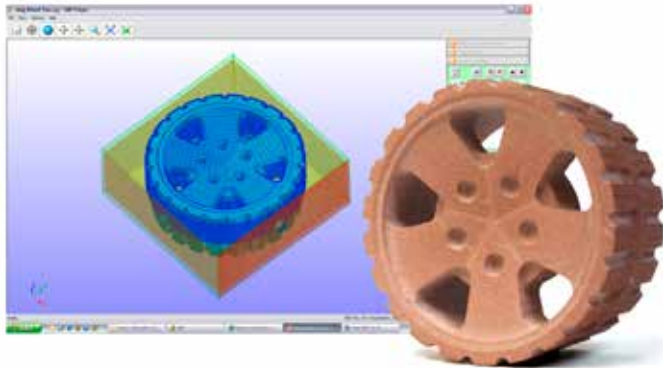
MDX-540 \$20,995 US

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)

Included with all milling machines, SRP Player software is ideal for rapid prototyping and custom rapid manufacturing applications.



- Optimum tool paths for each application for surface or polygone 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 and SRM-20 milling devices

For a video demonstration on SRP Player software, visit www.rolanddga.com/SRPPlayer.



PRODUCT SPECIFICATIONS

MODEL	SRM-20	MDX-40A	MDX-540	MDX-540S
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) 305mm x 305mm 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 (30 mm/sec.)	XY-axis: 188 ipm (50 mm/sec.) Z-axis: 70.9 ipm (30 mm/sec.)	295 ipm (125 mm/sec)	
Spindle Motor	DC motor Type 380	Brushless DC motor, Maximum 100 W	Brushless DC motor, Maximum 400W	
Spindle Speed	Adjustable 3000-7000 rpm	4500 to 15000 rpm	400 - 12,000 rpm	
Largest Tool Diameter	.236" (6mm)	1/4" (7mm)	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 Peizo Sensor	N/A	
Interface	USB	USB	USB	
Power Supply	AC 100 to 240V ± 10%, 50/60 Hz (2.1 A)	AC100 to 240V ±10%, 2.1 A.; 50/60 Hz	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, SRP Player, 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	

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