



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, 3D digitizing 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.



CAN YOUR 3D PRINTER DO THIS?

By starting with a solid object and removing unwanted material, Roland's Subtractive Rapid Prototyping (SRP) solutions offer several advantages over 3D printers and 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 - woods, brass, aluminum, ABS, Acetal, Nylon, and FDA approved plastics
- Smooth surface finish
- Tight tolerances



SCANNING AND MILLING MACHINE

MDX-15 | MDX-20

Benchtop prototyping has never been easier. Ideal for jewelers and product designers on a budget. These desktop machines mill tooling board, wax, and plastics with ease. So you can test form, fit, and function with confidence, making them the perfect choices for prototypes, parts and precision models. 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. Bundled with MODELA Player4,™ MODELA 3D Design,™ Dr. PICZA™ and Virtual MODELA,™ Dr. Engrave,™ and 3D Engrave software.

MDX-15 \$3,145 US

MDX-20 \$4,695 US

MILLING MACHINE

MDX-40A

The Roland MDX-40A is a desktop Subtractive Rapid Prototyping (SRP) system that offers product designers a major value. The MDX-40A is less than half the cost of most additive systems while producing 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 enables you to get started immediately. Bundled with ClickMill™, SRP Player, Virtual MODELA,™ Dr. Engrave,™ and 3D Engrave software.



MDX-40A \$7,995 US

OPTIONAL ZCL-40A ROTARY 4TH AXIS \$3,595 US

3D LASER SCANNERS

LPX-60 DS | LPX-600 DS | LPX-1200 DS

Stop wasting hours cleaning up scanned data! With the touch of a button, LPX DS Series 3D laser scanners can generate a detailed, high resolution 3D model with "watertight surfaces". Bundled LPX EZ Studio reverse engineering software automatically scans, aligns, merges planes, fills holes and decimates 3D models. The LPX-60 DS scans objects up to 12" tall by 8" in diameter at up to 0.008" maximum resolution. The LPX-600 DS scans objects up to 16" tall by 10" in diameter at up to 0.008" maximum resolution, and the LPX-1200 DS scans objects up to 8" tall by 5" in diameter at up to 0.004" maximum resolution.



LPX-60DS \$8,395 US

LPX-600DS \$12,595 US

LPX-1200DS \$15,995 US



PRECISION PROTOTYPING

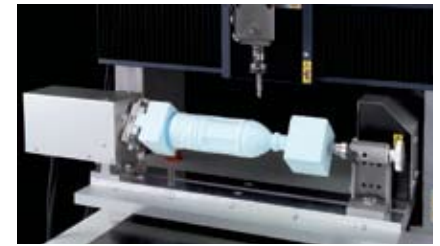
MDX-540 SRP® SYSTEM

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. The benchtop device produces 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-540A** \$31,495 US (Automatic Tool Changer)
- MDX-540S** \$26,295 US (High Precision)
- MDX-540SA** \$36,795 US (High Precision with Automatic Tool Changer)

Roland 3D scanning and milling machines allow engineers and designers to quickly and inexpensively create 3D prototypes as well as wax models for jewelry design.



PRODUCT SPECIFICATIONS

MODEL	MDX-15	MDX-20	MDX-40A
Max Work Area	6.0'(X) x 4.0'(Y) x 2.4'(Z) 152.4mm x 101.6mm x 60.5mm	8.0'(X) x 6.0'(Y) x 2.4'(Z) 203.2mm x 152.4mm x 60.5mm	12.0'(X) x 12.0'(Y) x 4.1'(Z) 305 x 305 x 105 mm
Rotary Axis	N/A	N/A	4.7" Diameter x 10.6" Long 60mm x 270mm
Rotary Axis Unit	NA	NA	Optional
Max Feed Rate	35.4 ipm (15mm/sec.)	35.4 ipm (15mm/sec.)	XY-axis: 188 ipm (50 mm/sec.) Z-axis: 70.9 ipm (30 mm/sec.)
Spindle Motor	10W	10W	Brushless DC motor, Maximum 100 W
Spindle Speed	6500 rpm	6500 rpm	4500 to 15000 rpm
Largest Tool Diameter	1/8" (Optional 1/4" and 6mm Spindle)	1/8" (Optional 1/4" and 6mm Spindle)	1/4"
Scanning Probe	Included	Included	Optional
Scanning Resolution	0.002" (.05mm)	0.002" (.05mm)	0.002" (.05mm)
Scanning Method	Contact Roland Active Piezo Sensor	Contact Roland Active Piezo Sensor	Contact Roland Active Piezo Sensor
Interface	Serial (RS-232C)	Serial (RS-232C)	USB
Power Supply	AC 100 to 240 ± 10%, 50/60 Hz (2.1 A)	AC 100 to 240 ± 10%, 50/60 Hz (2.1 A)	AC100 to 240 ±10%, 2.1 A.; 50/60 Hz (Overvoltage category II, IEC 60664-1)
External dimensions	16.8"(W) x 11.1"(D) x 12.1"(H); 426mm x 280mm x 305mm	18.8"(W) x 15.1"(D) x 12.1"(H); 476.8mm x 381.6mm x 305mm	26.4"(W) x 30"(D) x 21.9"(H); 669mm x 760mm x 554mm
Bundled Software	Modela Player 4, 3D Engrave, Dr. Engrave, Modela Player, Dr. Picza	Modela Player 4, 3D Engrave, Dr. Engrave, Modela Player, Dr. Picza	ClickMill, SRP Player, Virtual MODELA, Dr. Engrave, 3D Engrave
Supported Machine Code	HPGL	HPGL	HPGL & G-Code

MODEL	MDX-540 – base model	MDX-540S – Base model plus high tolerance ball screws	MDX-540A – Base model plus factory installed automatic tool changer	MDX-540SA – Base model plus high tolerance ball screws and automatic tool changer
Max Work Area	19.7"(X) x 15.7"(Y) x 6.1"(Z) 500mm x 400mm x 155mm	19.7" (X) x 15.7" (Y) x 6.1" (Z) 500mm x 400mm x 155mm	15.7"(X) x 15.7"(Y) x 6.1"(Z) 400mm x 400mm x 155mm	15.7"(X) x 15.7"(Y) x 6.1"(Z) 400mm x 400mm x 155mm
Rotary Axis	7.0" Diameter x 14.6" Long 180mm x 371mm	7.0" Diameter x 14.6" Long 180mm x 371mm	7.0" Diameter x 14.6" Long 180mm x 371mm	7.0" Diameter x 14.6" Long 180mm x 371mm
Rotary Axis Unit	Optional	Optional	Optional	Optional
Max Feed Rate	295 ipm (125mm/sec)	295 ipm (125mm/sec)	295 ipm (125mm/sec)	295 ipm (125mm/sec)
Spindle Motor	400W	400W	400W	400W
Spindle Speed	400 - 12,000 rpm	400 - 12,000 rpm	400 - 12,000 rpm	400 - 12,000 rpm
Largest Tool Diameter	3/8" (10mm)	3/8" (10mm)	1/4" (7mm) optional: 3/8" (10mm)	1/4" (7mm) optional: 3/8" (10mm)
Interface	USB	USB	USB	USB
Power Supply	AC 100 to 120V (7A) or 220 to 240V (4A)	AC 100 to 120V (7A) or 220 to 240V (4A)	AC 100 to 120V (7A) or 220 to 240V (4A)	AC 100 to 120V (7A) or 220 to 240V (4A)
External dimensions	29.3"(W) x 37.6"(D) x 33.8"(H); 745mm x 955mm x 858mm	30.1"(W) x 37.6"(D) x 33.8"(H); 765mm x 955mm x 858mm	29.3"(W) x 37.6"(D) x 33.8"(H); 745mm x 955mm x 858mm	30.1"(W) x 37.6"(D) x 33.8"(H) 765mm x 955mm x 858mm
Bundled Software	SRP Player, 3D Engrave, Dr. Engrave	SRP Player, 3D Engrave, Dr. Engrave	SRP Player, 3D Engrave, Dr. Engrave	SRP Player, 3D Engrave, Dr. Engrave
Optional Software	SRP Player Pro	SRP Player Pro	SRP Player Pro	SRP Player Pro
Supported Machine Code	HPGL & G-Code	HPGL & G-Code	HPGL & G-Code	HPGL & G-Code

MODEL	LPX-60DS	LPX-600DS	LPX-1200DS
Max Work Area	8.0"(D) x 12.0"(H); 203.2mm x 304.8mm	10.0"(D) x 16.0"(H); 254.0mm x 406.4mm	5.0"(D) x 8.0"(H); 130mm x 203.2mm
Operating Speed	50mm/sec, 4.9 rpm	37mm/sec, 4.5 rpm	7.6mm/sec, 4.5 rpm
Resolution	.008" (.2mm)	.008" (.2mm)	.004" (.1mm)
Scanning Method	Noncontact Laser Sensor	Noncontact Laser Sensor	Noncontact Laser Sensor
Interface	USB	USB	USB
Power Supply	AC 100 to 240V ±10% 50/60 Hz (1.7 A)	AC 100 to 240V ±10% 50/60 Hz (1.7 A)	AC 100 to 240V ±10% 50/60 Hz (1.7 A)
External dimensions	19.7"(W) x 15.0"(D) x 24.4"(H); 500mm x 382mm x 619mm	24.8"(W) x 19.9"(D) x 30.0"(H); 630mm x 506mm x 761mm	17.4"(W) x 15.6"(D) x 24.0"(H); 443mm x 396mm x 609mm
Bundled Software	LPX EZ Studio, Dr. Picza 3	LPX EZ Studio, Dr. Picza 3	LPX EZ Studio, Dr. Picza 3
Optional Software	Pixform Pro II	Pixform Pro II	Pixform Pro II

Imagine.  Roland®

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