



High Precision RAPID PROTOTYPING

One of the fastest and most accurate subtractive rapid prototyping (SRP) devices on the market, the MDX-540 4-axis desktop milling machine comes complete with powerful CAM software to quickly and easily produce everything from functional and snap-fit parts and prototypes to light metal molds and custom jewelry.

High-precision accuracy

The MDX-540 includes a hi-precision spindle that decreases vibration within the unit and produces extremely accurate models, which is ideal for fit and function. With ISO 15448 standard collets, the MDX-540 also generates a smooth surface finish that requires little to no post finishing work.

Your part, your material

Produce functional prototypes for aesthetic, structural, thermal and electrical testing from a wide range of materials including FDA approved resins. The MDX-540 also supports

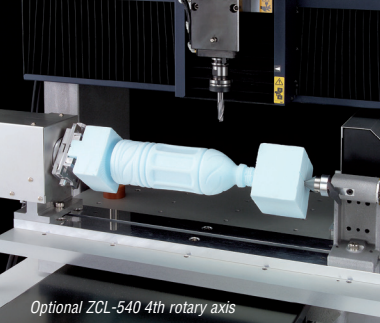
popular engineered plastics such as ABS, Acetal and Nylon. Transparent parts in acrylic or polycarbonate are just a few clicks away. Need an aluminum faceplate or heat sink? No problem, Roland subtractive rapid prototyping technology works great with aluminum, brass and copper. SRP gives you the power to create your part with your material.

Quick turnaround

Why wait for a machine shop when you can make models in-house for a fraction of the cost? Produce form models faster and easier than any other benchtop CNC mill on the market with Roland's rapid prototyping technology. How much can the MDX-540 save you?



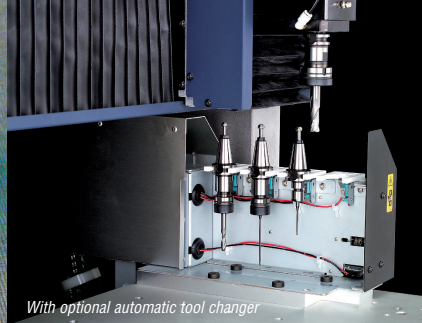
Create functional prototypes from real world materials including ABS, Acetal, Nylon, aluminum, brass and wood.



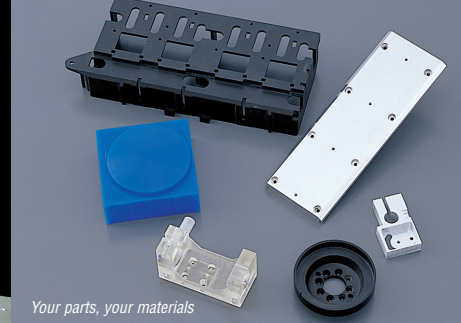
Optional ZCL-540 4th rotary axis



Tight tolerances are no problem for SRP



With optional automatic tool changer



Your parts, your materials

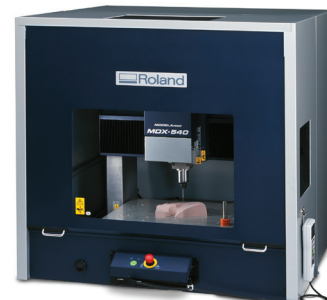
Low cost of ownership

Thanks to its low entry price, use of non-proprietary materials and low maintenance, Roland SRP devices easily beat the cost of ownership of 3D printers. Use the chart below to compare the true purchase price of a 3D printer and the annual cost for support and build materials, maintenance contracts, and software upgrades.



Your machine, your configuration

The MDX-540 series is designed to give you the freedom to configure your system exactly the way you want. Choose from safety covers, rotary 4th axis, automatic tool changer and a range of collets to work with industry standard tooling. With so many options you can design the system you need to get started in SRP and add new capabilities if your needs change in the future.



Optional ZBX-540E safety cover

The process is simple

Roland's powerful, easy-to-use CAM software guides you through each step of the process. Just export industry standard STL/IGES/DXF data from your 3D design package and you are ready to go. Our machines and software are created for designers and engineers who need to make parts. You don't have to be an expert to operate our machines.

Roland reliability

With over 10,000 SRP milling machines installed worldwide, Roland is a leading supplier of rapid prototyping equipment. The MDX-540, like all our precision devices is backed by Roland Care™, our unmatched warranty and support program.

Ready to see an MDX-540 in action? Visit www.rolanddga.com/srp to watch a video and see how companies around the world use SRP to create their parts with their materials on the Roland MDX-540.

PRODUCT SPECIFICATIONS

MODEL	MDX-540 – base model	MDX-540A – base model plus factory installed automatic tool changer	MDX-540S – base model plus high tolerance ball screws	MDX-540SA – base model plus high tolerance ball screws and automatic tool changer
Usable Materials	Plastic, resins, wood and non-ferrous metals	Plastic, resins, wood and non-ferrous metals	Plastic, resins, wood and non-ferrous metals	Plastic, resins, wood and non-ferrous metals
Max Work Area	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	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
Milling Area w/ Optional Rotary Axis (ZCL-540)	12.7"(L) x 7.0" (Dia.); 325mm x 177.8mm	12.7"(L) x 7.0" (Dia.); 325mm x 177.8mm	12.7"(L) x 7.0" (Dia.); 325mm x 177.8mm	12.7"(L) x 7.0" (Dia.); 325mm x 177.8mm
XYZ-axis drive system	AC servo motor 60W	AC servo motor 60W	AC servo motor 80W	AC servo motor, 80W
Max Feed Rate	125mm/sec	125mm/sec	125mm/sec	125mm/sec
Positioning accuracy	+/-0.004"/12" (+/-0.1mm/300mm), under no-load conditions	+/-0.004"/12" (+/-0.1mm/300mm), under no-load conditions	+/-0.004"/12" (+/-0.1mm/300mm), under no-load conditions	+/-0.004"/12" (+/-0.1mm/300mm), under no-load conditions
Repeat accuracy	+/-0.002" (+/-0.05mm)	+/-0.002" (+/-0.05mm)	+/-0.0008" (+/-0.02mm)	+/-0.0008" (+/-0.02mm)
Spindle motor	400W DC Brushless Motor	400W DC Brushless Motor	400W DC Brushless Motor	400W DC Brushless Motor
Spindle speed	400 - 12,000 rpm	400 - 12,000 rpm	400 - 12,000 rpm	400 - 12,000 rpm
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	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	30.1"(W) x 37.6"(D) x 33.8"(H); 765mm x 955mm x 858mm
Weight	225lb (102kg)	249lb (109kg)	225lb (102kg)	249lb (109kg)
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
MODEL	Automatic Tool Changer (ZAT-540)			
Number of tools housed	4			
Tool-holder format	Taper shank: JBS4002 15T			
Compatible compressed air	102 to 145 psi, 1.8CFM (0.7 to 1.0 MPa, 50 L/min or higher)			

Imagine. **Roland®**

FOR COMPLETE PRODUCT SPECIFICATIONS AND FEATURES, OR MORE INFORMATION, CALL 800-542-2307 OR VISIT WWW.ROLANDDGA.COM
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