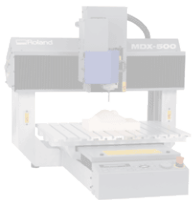


Roland MDX-40 SRP System



Meeting Agenda

- **The problem we solve**
- **Product features**
- **How used**
- **Part creation process**
- **Your parts, your materials**
- **Conclusion**
- **Questions**

Companies need prototypes!

- Designs don't go into production until functional prototypes are created and tested
- To provide accurate test results functional prototypes must be made from materials as close as possible to those used in production



Prototype Options and Issues

- **Option A:** Additive RP parts
- **Problem:** 3D printing, SLA, SLS, and FDM will not result in true functional prototype parts. These are visual, non functional models.
- **Option B:** In-house or outsourced machined parts.
- **Problem:** High cost, long turn around time, interrupts in-house production CNC, design information is exposed to outsourced vendors.



The Roland Solution

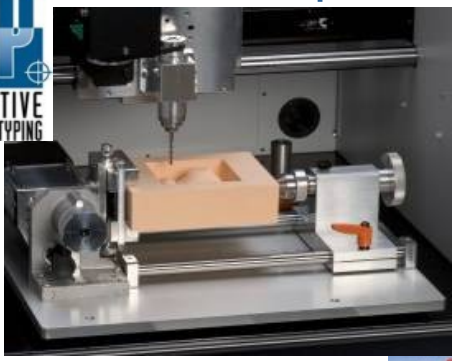
- The MDX-40 is a SRP system specifically designed to meet the needs of companies that require a wide choice of materials to create precise, functional



SRP vs. ARP

Subtractive Rapid Prototyping:	Additive Rapid Prototyping:
<ul style="list-style-type: none"> ✓ Material selection results in true, functional prototype parts. 	<ul style="list-style-type: none"> ✗ Proprietary materials expensive, non-functional.
<ul style="list-style-type: none"> ✓ Superior precision +/- .002" 	<ul style="list-style-type: none"> ✗ Process varies precision.
<ul style="list-style-type: none"> ✓ Better surface finish with little to no secondary hand finishing. 	<ul style="list-style-type: none"> ✗ Requires secondary operations to finish parts.
<ul style="list-style-type: none"> ✓ Uses standard practices to test 	<ul style="list-style-type: none"> ✗

SRP
SUBTRACTIVE
RAPID PROTOTYPING



Get the RP Report

Todd Grimm, the man who wrote the book on rapid prototyping for the Society of Manufacturing Engineers, found that Roland SRP devices produce prototypes faster, better and cheaper than most additive RP systems. Download a copy of the report: www.rolandasd.com



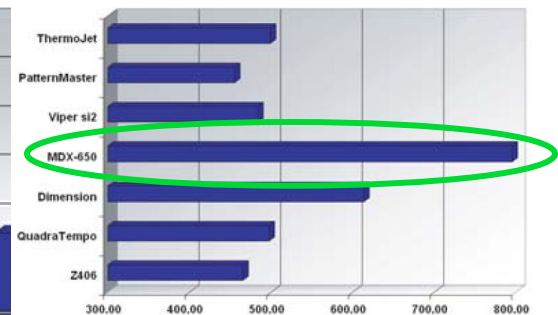
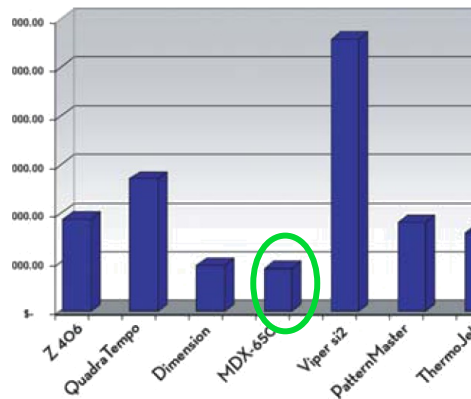
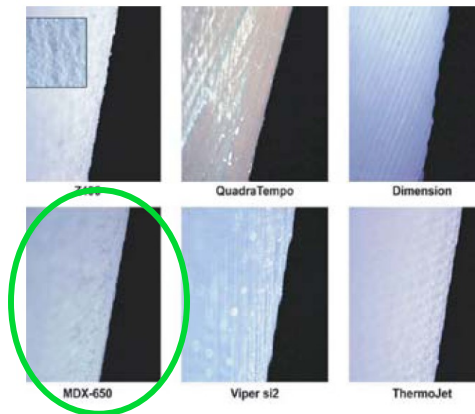
Master Level Certificate for Rapid Prototyping & Manufacturing. Awarded by Society of Manufacturing Engineers.

Roland SRP solutions lead with:

Finer Surface Finish

Lower Operating Cost

Better Functionality



Roland SRP Solutions

↑
Functionality



MDX-650 \$25K



MDX-40 \$11K



MDX-15/20 \$3K/\$4.5K

→
Price

Position in market

↑
Functionality



Milling Centers \$45K



Roland MDX-40 \$11K



Basic CNC \$2-5K



3D Printers \$25K

→
Price

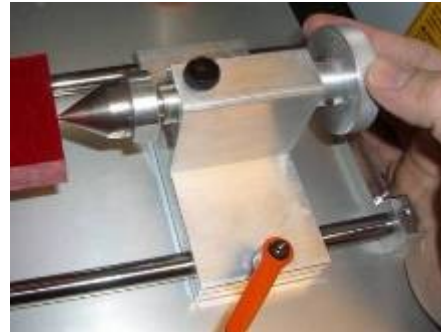
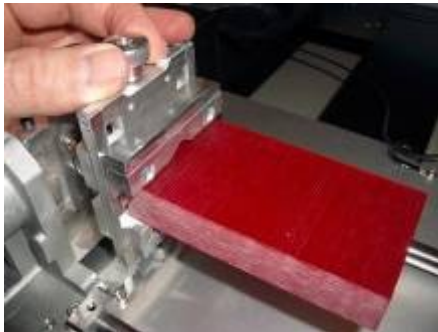
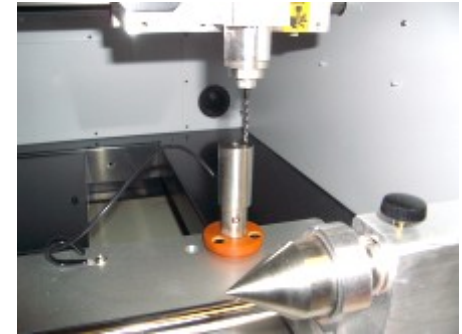
MDX-40 users include:

- Packaging designers
- Medical device manufacturers
- High schools, colleges, vocational centers
- Consumer product designers & manufacturers



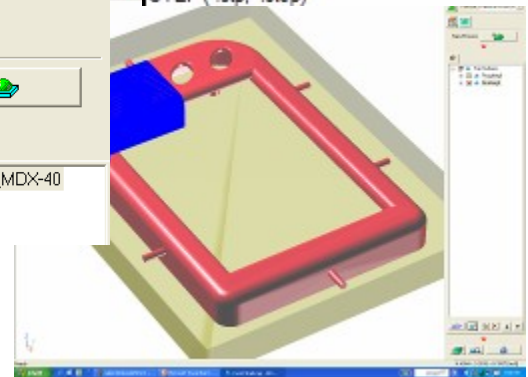
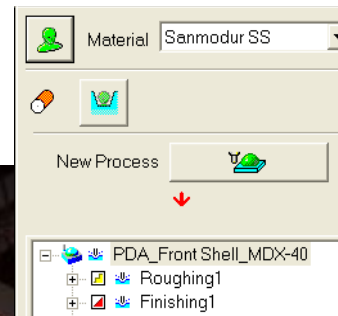
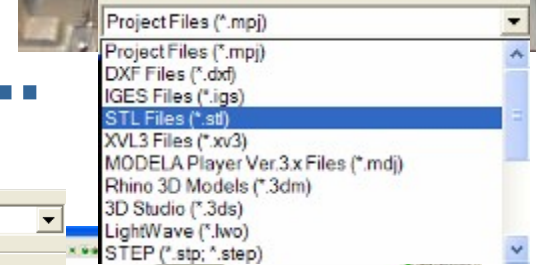
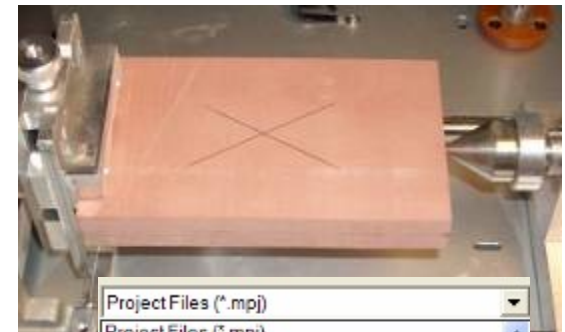
Mechanical Features:

- Built in z-axis sensor quickly resets z-axis zero between tool changes.
- Versatile Clamping System
 - Centering Clamp
 - Tail Stock Arbor
 - Round Stock Support



Part creation

- Select your material
- Load the MDX-40...
- Open a CAD file...
- **Generate processes...**
- Create parts!



Your Parts, In Your Materials

The MDX-40 works with:

ABS

Delrin

Acrylic

Nylon

Polycarbonate

Urethane Foam

Wood

Polyester

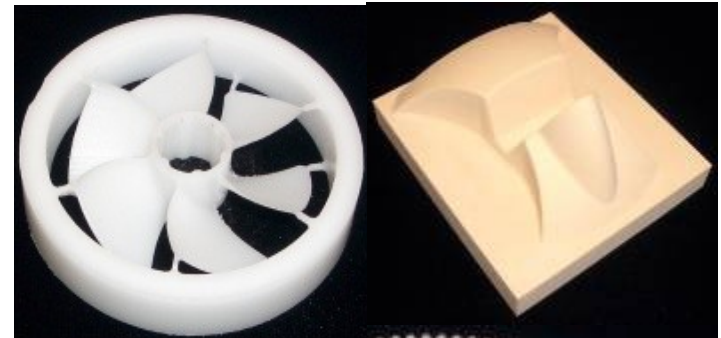
Phenolic

MDF

Plaster

Machinable Wax

and more...



Available Tooling

Collets:

- ZC-23-6 6mm Collet (Included with MDX-40)
- ZC-23-635 1/4" Collet (Included with MDX-40)
- ZC-23-3175 1/8" Collet
- ZC-23 3mm, 4mm, 5mm, 6mm Collet Set



Ball End Mills (Solid Micrograin Carbide)

- BM-250-2F-250 (1/4" Shank, 2 Flute, 1/4" Mill, 3" Overall Length)
- BMB-125-3F-125 (1/8" Shank, 3 Flute, 1/8" Mill, 2.5" Overall Length)
- BMB-125-3F-063 (1/8" Shank, 3 Flute, 1/16" Mill, 2.5" Overall Length)
- BMB-125-3F-031 (1/8" Shank, 3 Flute, 1/32" Mill, 2.5" Overall Length)
- BMB-125-3F-016 (1/8" Shank, 3 Flute, 1/64" Mill, 2.5" Overall Length)

Flat End Mills (Solid Micrograin Carbide)

- EM-250-2F-250 (1/4" Shank, 2 Flute, 1/4" Mill, 3" Overall Length)
- EMF-125-3F-125 (1/8" Shank, 3 Flute, 1/8" Mill, 2.5" Overall Length)
- EMF-125-3F-063 (1/8" Shank, 3 Flute, 1/16" Mill, 2.5" Overall Length)
- EMF-125-3F-031 (1/8" Shank, 3 Flute, 1/32" Mill, 2.5" Overall Length)
- EMF-125-3F-016 (1/8" Shank, 3 Flute, 1/64" Mill, 2.5" Overall Length)



Conclusion

- **A high quality, SRP solution for \$10,995**
- **SRP provides:**
 - Choice of materials for true, functional prototypes
 - Speed, precision, high quality surface finish
- **Price includes 4th axis and CAM software**
- **Max build area 12" x 12" x 4.12"**
- **Spindle speed: 15,000 RPM for fine detail work**
- **Rigid, lightweight, enclosed system for precision and portability**
- **Designed specifically for people who need to produce functional prototype parts quickly and easily**

Questions?

Roland MDX-40

