



MDX-40A Milling Machine vs. 3D Printing

Roland's new MDX-40A SRP 3D milling machine offers several advantages over 3D printers and other rapid prototyping systems. **Lower cost of ownership – Affordable pricing, no annual maintenance fees and low material costs will save you thousands over alternative RP systems!**

Comparable 3D Printer vs Roland MDX-40A	Comparable 3D Printer ²	Roland MDX-40A
Build Area	8 x 6 x 6	12 x 12 x 4 4.7 dia x 10.6
Warranty	90 days	1 year
Machine Purchase Price	\$14,900	\$7,995
Accessories/options/support removal bath	+ \$3,000	+ \$4,755
Purchase Price Sub Total	= \$17,900	= \$12,750
Annual Maintenance	\$1,500	\$0
Annual Material Cost ¹ - Finishing costs (binders, fillers, support removal solutions, support removal tools, etc)	+ \$2,592	+ \$432
Annual Cost Sub-Total	= \$4,092	= \$432
5 year maintenance & material cost (Annual Cost Sub-Total x 5 years)	= \$20,460	= \$2,160
Total 5 year cost of ownership (Purchase Price + 5 year Maintenance & Material Cost)	= \$38,360	= \$14,915
5 year savings over comparable 3D printer		-\$23,445

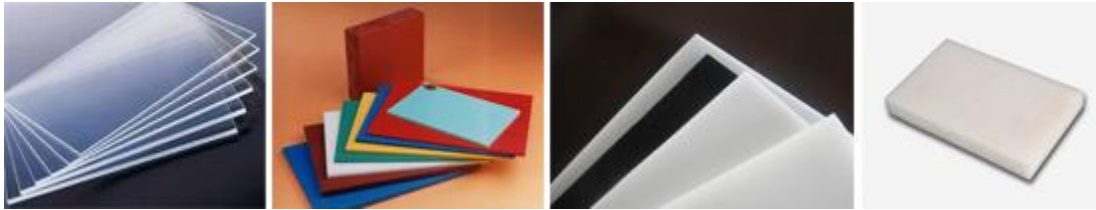
¹ Material Cost Calculator

Estimated cost/cubic inch	\$6	\$1
Average cu/in per part	12	12
Average cost per part	\$72	\$12
Parts per year	36	36
Total annual material cost	\$2592	\$432

² Information correct at time of printing

Other Advantages:

- Support for a wider range of materials – Choose from ABS, acrylic, chemical woods, plaster, styrene, Acetal, Nylon and FDA approved plastics.



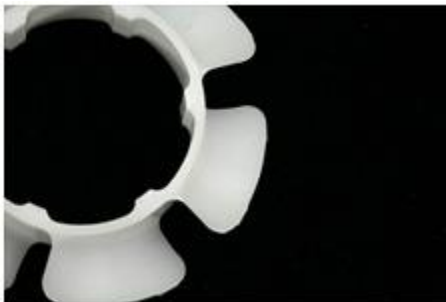
- Tighter tolerances – The MDX-40A delivers the exact precision required. By contrast, additive systems lay down material in layers, and the tolerances are limited by the thickness of these layers.



Milled on a Roland MDX-40A



Created with a 3D printer*



Milled on a Roland MDX-40A



Created with a 3D printer*

*Materials Used: Acetal Copolymer (MDX-40A) ABS based material (Additive machine)

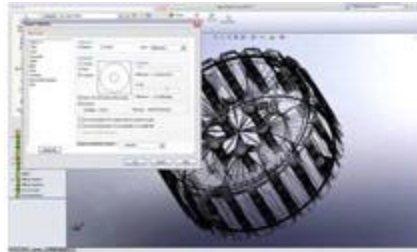
Smoother surface finish - When viewed side by side, the difference is clear!

The MDX-40A comes complete with SRP Player Software to prepare your CAD model for SRP prototyping! Simple as importing an STL, DXF, 3DM or IGS/IGES file!

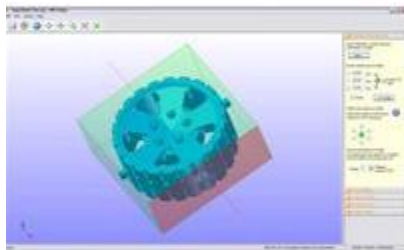
SRP Workflow



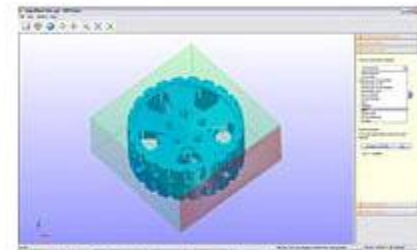
1 CREATE YOUR DESIGN IN YOUR FAVORITE 3D SOFTWARE



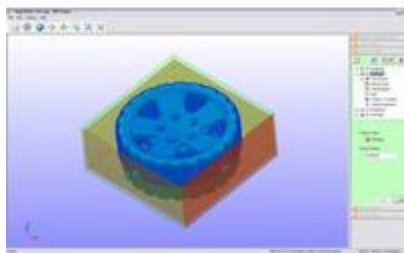
2 EXPORT FROM YOUR CAD AS AN .STL FILE OR .DXF, .3DM, OR .IGS/IGES



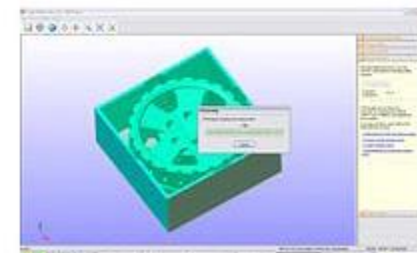
3 OPEN THE .STL FILE IN ROLAND SRP PLAYER SOFTWARE (INCLUDED WITH MACHINE)



4 FOLLOW THE WIZARDS TO ORIENT MODEL, SELECT MATERIAL AND TOOL SIZE



5 SRP PLAYER AUTOMATICALLY GENERATES MACHINE INSTRUCTIONS (TOOL PATHS)



6 PREVIEW RESULTS, THEN CLICK "SEND TO MACHINE" TO MAKE YOUR MODEL!