Spoons, cup, and fruit all printed on Stratasys J850.

Just Click Print

Product design workflow is easier than ever before, thanks to Stratasys. Read on to find out why.

Brochure

stratasys

The Problem

Amazing technology isn't useful if you can't take full advantage of its benefits. Achieving realistic 3D printed models shouldn't require you to recolor files, rely on too many different software solutions, or manually add details after the part is printed. These extra steps take too much time and rack up costs.

"Unream" design by Jiani Zeng and Honghao Deng.

The Solution: The Designer's Toolkit

PolyJet Technology™ is designed to meet all your form, fit, and visual modeling needs, from simple file preparation to design software integration and advanced color and volumetric capabilities. The design realism software ensures a simple workflow powered by Stratasys software solutions:

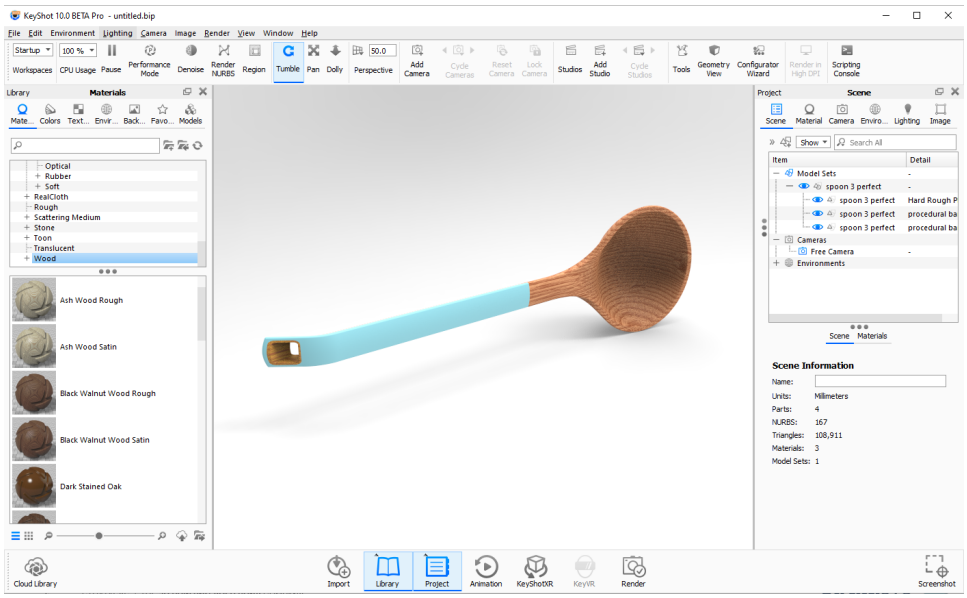
- **GrabCAD Print™** software makes 3D printing easy, accessible, and efficient with optimized workflow and communication from your design software to your 3D printer. GrabCAD Print supports a wide range of file types, including native CAD, STEP, Parasolid, OBJ, 3MF, VRML and STL.
- **3MF File Formats** offer a powerful, more efficient alternative to STL files, letting you go to print directly from your most-used design tools, including KeyShot and SOLIDWORKS. 3MF files deliver a complete package of model information in a single archive, including data on textures, materials, colors, and mesh.
- **Voxel Print™** software allows advanced users, like academic researchers, to define data volumetrically for each 3D pixel, or voxel, throughout the entire model. This allows for an advanced level of control at a microscopic scale, enabling higher resolutions, fine-tuned color placement, and shore value transitions within one part.
- **Bump Mapping** compatibility lets designers simulate surface finishes by generating physical textures. GrabCAD Print reads bump map information from OBJ and 3MF files, and translates it into a real 3D printed texture. This enables a new level of 3D printed realism, for parts that both look and feel like the real product.

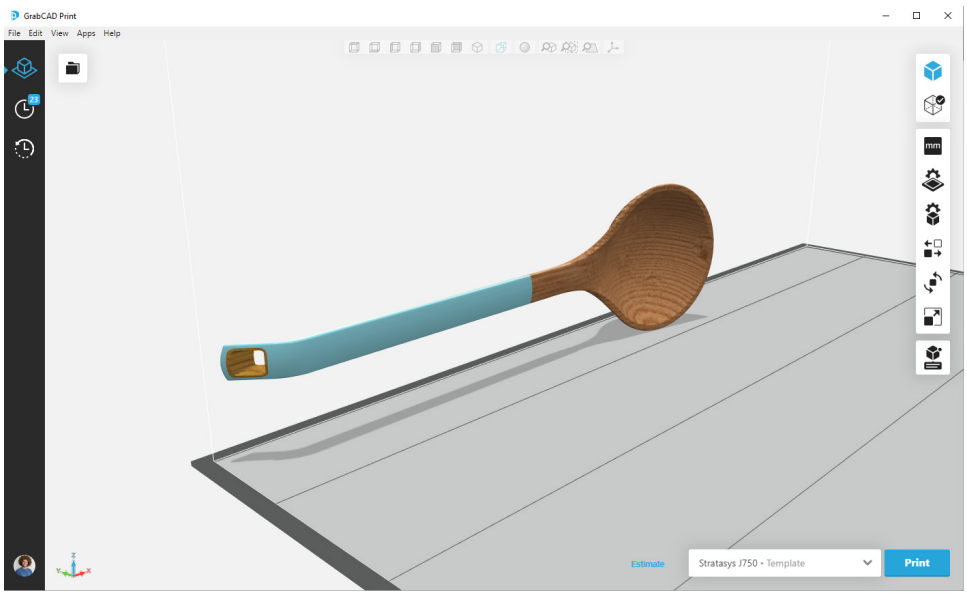
3D printed eyewear prototypes.

Why?
Workflow.

Many designers are still relying on STLs, which don't contain any color or texture data. This requires communicating information about CMF in other ways, including manual processes, extensive explanations, or additional software steps. Workflows that rely on OBJ and VRML files leave material, texture and finish out of the story, making them inefficient and time-consuming.

With GrabCAD print, it's simple to import from industry standard CAD tools like SOLIDWORKS or KeyShot into the 3MF file format. This creates a compact file containing all the model information, including data on textures, color, materials, and mesh. 3MF files can be imported directly into GrabCAD Print, which means you can be print-ready in just a few clicks.





Go from KeyShot to GrabCAD Print in seconds with 3MF export.

Accuracy.

To achieve industry standard color matching, GrabCAD Print offers PANTONE™ Validated colors and industry standard color profiles. PolyJet printers offer ICC color profiles by X-Rite, which help ensure that your parts come out exactly the way you intended – and helps you keep those colors consistent for future work.

For fully accurate CMF models, go beyond color to texture realism. PolyJet Technology and KeyShot software combine to enable bump mapping - bring physical textures to life in one easy-to-use 3D printing workflow.

It's easy to do more with GrabCAD Print.

A variety of file formats supported.

- ✓ 3MF
- ✓ OBJ/VRML
- ✓ STEP
- ✓ STL
- ✓ Other native CAD formats

File functionality.

- ✓ Support assemblies
- ✓ File fixing
- ✓ Control of support structure
- ✓ Tray and file preparation

Customized color and finish assignments.

- ✓ Color picker
- ✓ Digital materials
- ✓ PANTONE Validated™ colors
- ✓ Glossy or matte finish
- ✓ Set core type
- ✓ X-Rite i1Profiler color profiles

Detailed part manipulation.

- ✓ Part scaling
- ✓ Add notes to parts
- ✓ Auto-arrange tray

Intuitive print management.

- ✓ Multiple print modes
- ✓ Remote job queue management
- ✓ Navigate between multiple printers

Practically perfect prints, every time.

Design realism – simplified.

With GrabCAD Print, designers have access to a simple, efficient PolyJet workflow that brings designs to life. Whether they incorporate bump mapping, color gradients, complex surface textures, or colorful graphics, design concepts can become reality in just a few clicks.

Luxion KeyShot Occluded Plane Toy Car 3D Printed on Stratasys J55.

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