Data Sheet

SpaceClaim STL Prep for 3D Printing Module

Speed & Ease-of-Use of SpaceClaim Engineer now available for Editing STL

SpaceClaim provides a solution to prepare models for 3D printing efficiently and easily by offering one tool to not only repair models for printing but also modify STL and CAD files. The STL Prep for 3D Printing module also extends SpaceClaim's intuitive interface, speed, and interoperability into the 3D printing world.

Work directly with STL files:

- **Analyze & Clean STL:** Intersections, check that it is watertight, fix immediately.
- **Edit STL:** Cut up model, slice it into several sections.
- **Combine:** STL models with other STL models or solids.
- **Decimation/**reduction

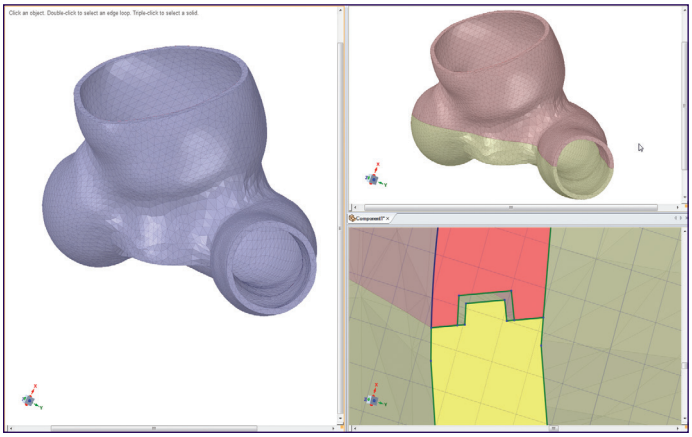
Analyze, Clean, and Repair STL

Rarely is a model ready to print after design. SpaceClaim's STL Prep for 3D Printing module analyzes and cleans intersections, ensures the model is watertight, and fixes the problems immediately. Users can repair inverted normals, intersecting facets, and other issues that can cause print failures.

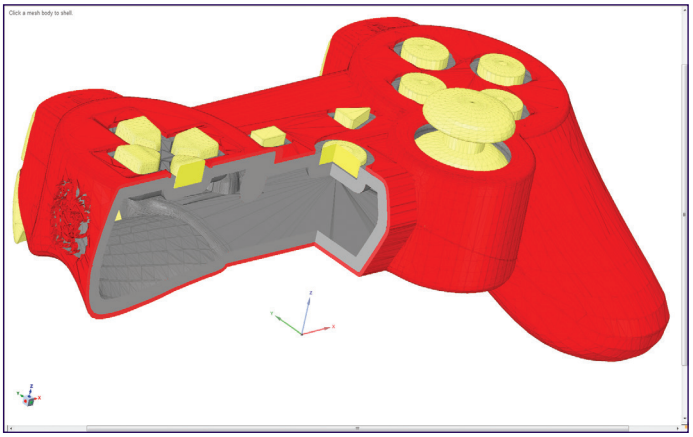
Work Directly with STL & Solids

Directly editing STL files is key in giving users flexibility. STL Prep for 3D Printing allows users to: slice the model in several sections by choosing a plane; remove features that are too small; separate the STL for multi-material printing, assign color variations; and deconstruct the part and/or arrange features into better positions for a more optimized 3D print.

Merge an STL with an STL or a solid. It's simple to thicken an STL to increase strength, create connecting features, or create things like an overmold.

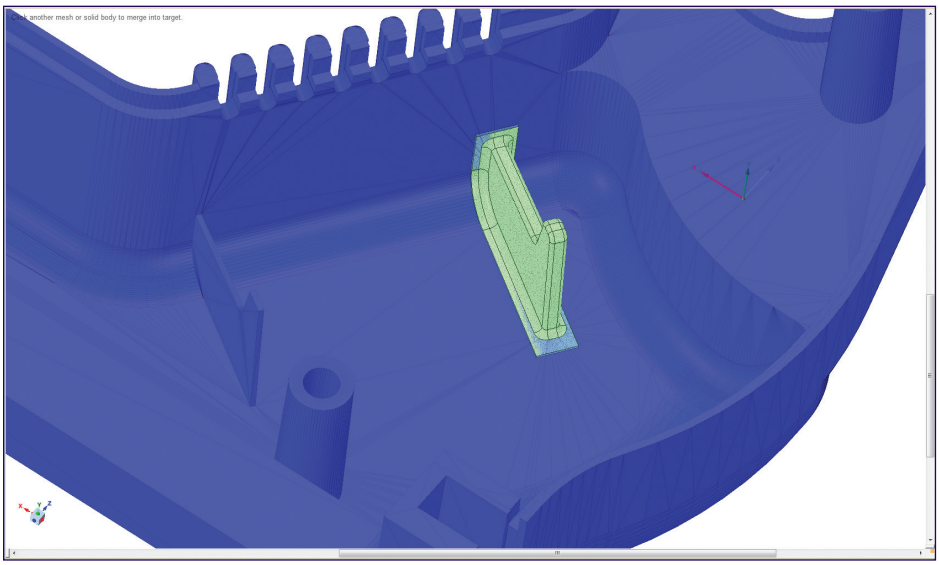


Split and Junction



Shell and Separate

Repair printing problems and modify STL and CAD files all in one tool.



Merge Solid and STL

Print Optimization

Shelling is crucial to the printing process. Less material means less printing cost, less shipping cost, and often faster print times. Use SpaceClaim STL Prep's shell tool to save on material, create offset parts, or define different interior regions of a part. In addition, STL Prep for 3D Printing can cut down on file sizes to increase printer performance with decimation.

Multiple File Formats Supported

Save & export STL files from SpaceClaim directly to the printer for a streamlined printing process. In addition, STL Prep for 3D Printing can work with 2D files as well as other faceted formats such as OBJ, cgr, & AMF.

System Requirements:

CPU: Pentium® 4 2.0 GHZ or Athlon® 2000+ or faster, 64-bit (x64) processor

RAM: Minimum: 4GB RAM, Recommended: 8GB RAM or higher

OS: Microsoft Windows XP SP3, Vista, 7, 8

Video Card: Requires Full DirectX® 9c, Shader Model 3.0 hardware support, 256 MB of graphics memory or higher, 32 bits per pixel, 1024x768 minimum resolution.

For more information, please see system requirements for SpaceClaim Engineer.

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