

# ***solidThinking* RELEASE 2 specifications**

**solidThinking RELEASE 2** is a completely modular 3D environment, including modules for Modeling, Animation, Import/Export.

The **MODELING** module, the standard one, includes:

- Customizable user interface.
- Rich set of basic 2D and 3D primitives.
- Interactive 3D editing of Bezier and B-Spline curves and surfaces.
- Editable 3D text with trimmed curves.
- Extrusion, lathe and skin on multiple 3D profiles, patches and filled surfaces.
- Automatic extraction of 3D paths from surfaces.
- Automatic refinement of Bezier curves and surfaces.
- Precise surface's points editing.
- Boolean operations of addition, subtraction, intersection.
- Advanced shading controls (shaders can be customized).
- Powerful icons based attributes and objects library.
- Bitmapped images can be converted into textures.
- Object hierarchy browser.
- Unlimited number of light sources.
- Automatic generation of shadows and reflection maps.
- Unlimited output resolution.
- API (Application Programming Interface) for custom objects and transformations.

The **ANIMATION** module requires the Modeling module.

Features of the Animation module include:

- Interactive editing of moving objects paths.
- Hierarchical motion with kinematic controls using cubic splines.
- Lights and camera can be moved like any other objects.
- Automatic compositing (rotoscoping) and compression of generated frames using JPEG and NEXTTIME.

**IMPORT** modules are also available. They require the Modeling module and provide support for the following file format:

- DXF.
- Wavefront.
- TDDD.
- OpenCAD.

The included API (Application Programming Interface) allows you to create your own Import/Export module.

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