

VISI-Modeling

A True Hybrid Modeling System

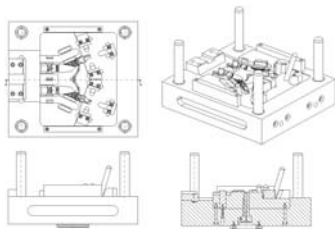
VISI-Modeling is a powerful solid and surface modeling system, which uses the industry standard Parasolid kernel combined with Vero's surface technology and 2D design all in one seamless environment, fully integrated with all the other VISI-Series modules.



Aerospace component imported into VISI-Modeling



Yamaha seat component. Tooling designed in VISI-Series.

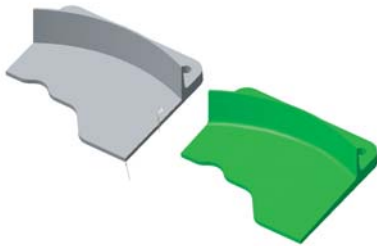


2D views automatically created from the solid model.

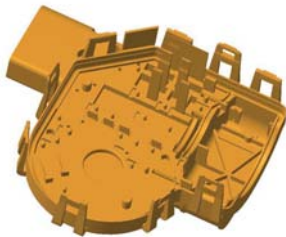
- **Parasolid solid modeling kernel.** All the power of this industry standard solid modeling engine.
- **2D and 3D wire frame and sketching.** Multiple snap functions, dynamic dimensions and many different line styles.
- **True hybrid modeling capability.** VISI-Series can work in solid, surface, wire frame, or a combination of all three without any restrictions.
- **Solid modeling tools** including subtract, unite, cavity, intersection, hollow, blend and variable radius blend. Solid model creation from primitives, extruded solid bodies and closed surface models.
- **Leading edge surface modeling.** Includes patch, n-sided patch, ruled, lofted, swept, pipe, drive curve, face replacement etc.
- **Surface and solid trimming.** Cut these entities with other surfaces, curves and solid models.
- **Powerful blending functions** in solid and surface for constant radius, variable radius, disc, hyperbolic and elliptical blends.
- **Blend fixing and trimming** for control, creation and analysis of very complex blends.
- **Blend propagation.** Fast and easy blending by allowing blends to flow over tangent edges.
- **Solid model editing.** Remove unwanted features and automatically heal the solid body. Simplify a solid model to remove over definition.
- **Close a surface model to a solid body.** Automatic drawing of open edges, making it easy to re-define missing or corrupt surfaces to make a valid solid body.
- **Surface comparison.** Compare a newly created surface with the original surface to check that it is within tolerance.
- **Hot keys** for rotation, zoom and pan. Programmable function keys to speed up operation for experienced users.
- **On line context sensitive help.** Quickly find out how to use each command.



SoleLù cosmetic case designs developed in VISI-Series.



Adding draft to an imported solid model.



Complex cover component, typical part imported into VISI-Series for design & manufacture.



Surface repair of corrupt or missing surfaces ready for closing to a solid.

- **Surface editing functions.** Includes surface simplification, surface editing by control points, raising the degree of a surface, editing vertices, deleting redundant vertices etc.
- **Unlimited undo and redo** with bookmarks. Move backwards and forwards through your design without parametric constraints.
- **Manipulation of faces on a solid body.** Incline a face and swing a face, extrude and thicken a face.
- **Multiple solid bodies in one session.** Work on several different solid bodies in one environment.
- **Goureaud shading** with full Open GL support. Transparent shading, shading with wire frame and hidden line. Full operation in both wire frame and shaded modes.
- **Multiple origins**, named origins and origin switching. Quickly get your design in the right orientation.
- **Multi-layer support.** Color, entity and layer filters. Layer locking and switching of element visibility. Makes complex designs easy to understand.
- **Extensive range of CAD interfaces.** IGES, DXF, VDA, Dwg, Parasolid, ACIS, STEP, CATIA, Pro/E, UGS and STL.
- **Surface healing tools.** Automatically close narrow gaps between surfaces to form a solid model.
- **Split line curves.** Automatically generated on surfaces or a solid body. Full curve editing to suit the exact design requirements.
- **Mechanical 3D curves.** Splines, isoperimetric, imprinted, cross section and edge curves.
- **3D curve editing.** Force tangency, move control points, join and extend curves in 2D and 3D.
- **Automatic 2D views.** Create 2D views straight from the solid model including isometric and orthogonal views, complex sections and details. Automatic cross hatching. Support of windows plot drivers.
- **Automatic update of 2D views from the solid model.** 2D views are fully associated with the solid model. Model changes automatically update the views, sections and details.
- **Full range of dimensioning functions.** Includes ordinate aligned, diametral, datum, ordinate positional, angular etc. ISO tolerances, inch/metric dual dimensions. Multiple text and arrow types and sizes.
- **Full range of transformation tools.** Includes mirror, scale, rotate, translate, copy, non-uniform scaling, drag etc.
- **Photo realistic rendering.** Includes materials, textures, ambient light and spot lights.
- **Assembly manager.** Control of parts lists, part numbers and physical attributes. Especially useful with VISI-Mould and VISI-Progress.



Visi-Series is a product of
Vero International Software

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