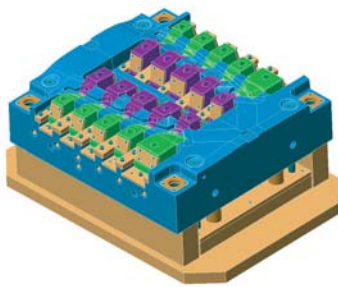


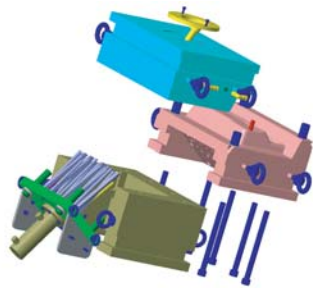
VISI-Mold

Mold Tool Design Made Easy

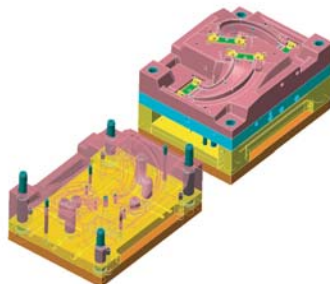
VISI-Mold enables the complete design of mold tools for parts imported for other CAD systems or designed in VISI-Modeling. A simple question and answer routine, together with libraries of mold parts from leading suppliers, guides you through the design process. With the addition of VISI-Machining, molds can be manufactured straight from the solid model.



Tool designed by HS Tool & Die using VISI-Series

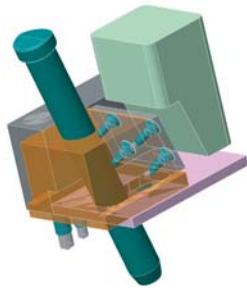


Exploded view of an injection mold tool showing pins, ejectors & slide mechanisms.

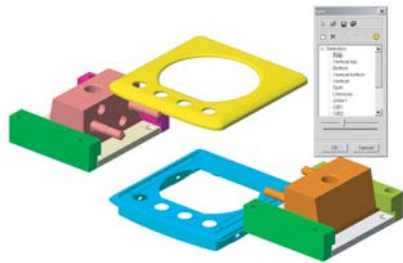


Transparent view of a complete mould showing pins, screws, ejectors and locks.

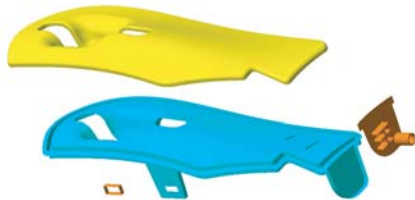
- **VISI-Mold is fully integrated.** All VISI-Series modules work together seamlessly including the VISI-Modeling hybrid modeling software. Work in solids, surfaces, and wireframe without any restrictions.
- **Extensive range of CAD interfaces** including Parasolid, ACIS, IGES, DXF, Dwg, STL, CATIA, STEP, Pro/E, UGS, and VDA. Has ability to skip corrupt records and to handle very large files with ease.
- **Surface healing tools** for automatic repairing of small gaps between surfaces.
- **Surface interrogation** lets you find missing or corrupt surfaces. Automatic creation of boundary curves on the open edges make it easy to define new surfaces.
- **Close a surface model to a solid model.** Eliminate problems with subsequent design and manufacture. Simplify the solid to remove over-definition.
- **Full range of Parasolid modeling commands** includes blend, variable radius blend, hollow, unite, subtract, cavity and intersect. Create parts by extrusion of profiles or with solid primitives.
- **Powerful surface creation tools** for re-defining corrupt surfaces and producing new designs. Includes N-sided patch, lofting, planar, draft, drive, trimmed, ruled and piped surfaces.
- **Surface editing** to remove or add surfaces with automatic healing.
- **Surface taper commands** to add, change or remove draft.
- **Automatic split line creation.** Finds and allows full editing of the split line for optimum positioning.
- **Projection of the split line** onto the model to divide underlying surfaces and achieve the desired insert configuration.
- **Animate the tool.** Show how the inserts and slides move apart, and resolve undercuts with the VISI-Split module.
- **Surface analysis** to check for insufficient taper and to highlight undercut conditions. Rainbow strip and shaded rainbow shading plus isocline shading to check for surface smoothness, all in VISI-Split.



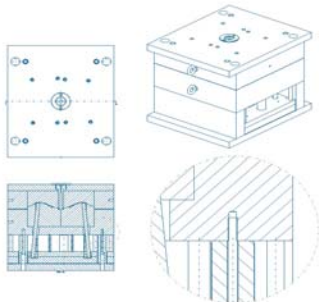
Slide design with inclined pin.



Animation of the moving parts of the tool.



Splitting a component into core, cavity, and slides with VISI-Split.



2D isometric view of a mold tool created automatically in VISI-Series PIVt view.

- **Automatic split plane creation** and complex surface definition commands for full control of the split plane shape.
- **Mold insert creation.** Subtract the surface models from solid primitives to create the desired cavities.
- **Slide design with inclined pins.** Design moving parts of the tool and optimize the movement of the slide with simple dialogue box entries.
- **Library of standard mold bases** and mold components from leading suppliers including Hasco, DME, DMS, Strack etc.
- **Simple tool building interface** to define the mold plates required in the tool design. Build up top and bottom plates, risers etc. with an easy question and answer session.
- **Automated lock design** for large tools. Male and female locks to ensure positive location of the tool.
- **Graphical positioning of ejector pins** and automatic trimming of ejector pin ends to match the cavity shape.
- **Ejector pin locking.** Choice of ejector pin locks to stop the pin rotating during use.
- **Parametric editing of mold dimensions.** Components, plates, pins, screws etc. automatically update to fit the new sizes.



Visi-Series is a product of
Vero International Software

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