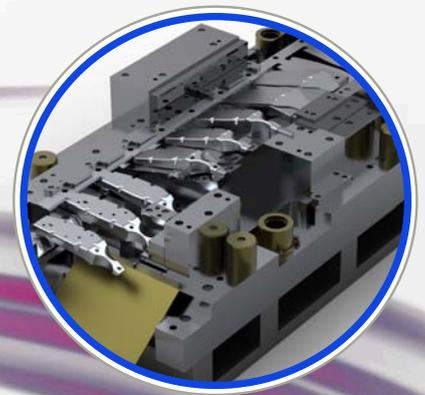
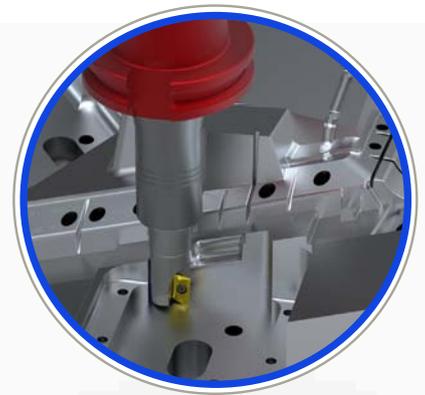


Geometry validation & Model healing

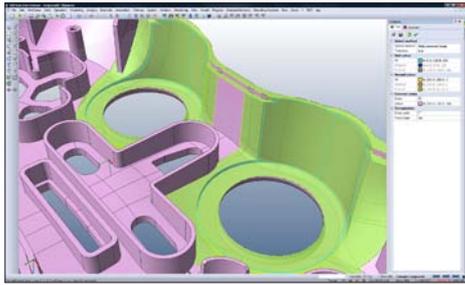
When working with imported data, the quality of model geometry can have a dramatic effect on the success of your project. Finding potential problems at an early stage within the project life cycle will dramatically simplify the task of the designer and return huge time and cost savings further downstream for both design & manufacture



Geometry validation

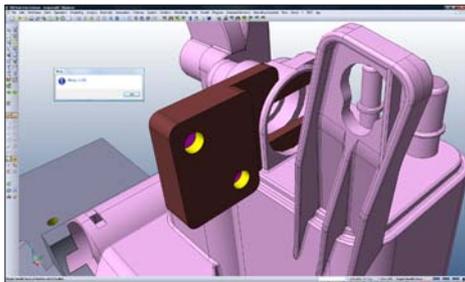
Model Comparison

Important for when you receive model revisions, this option allows the user to make a comparison between two solid models or surface sets and graphically present the design changes and common zones.



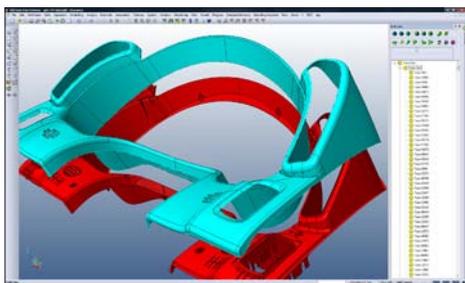
Repair Invalid Faces

This tool automatically attempts to repair invalid bodies. There are multiple reasons why a body can be corrupt and this tool identifies and tries to automatically fix and repair the problem zones (re-trimming, face reconstruction etc).



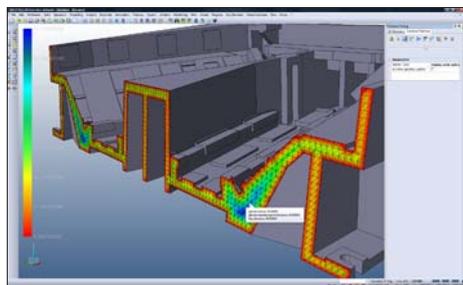
Model Splitting - Core & Cavity

What can typically be a time consuming and complex task, VISI provides a number of applications for model splitting, split line creation, shut off surfaces and core & cavity construction.



Model Thickness Analysis

A very important application for the moulding industry. This tool graphically displays the model thickness using multiple algorithms providing valuable information for potential moulding issues such as material accumulation, gating positions, rib criteria and cooling channel locations.

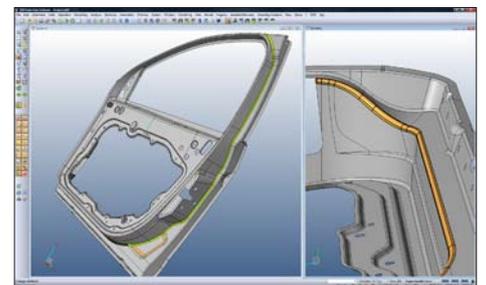


Smooth Edges / Simplify Edges

These tools allow the user to validate and improve model data, especially imported geometry. Smooth Edges provides a visual check of model tangency conditions. Simplify Edges is an advanced tool to validate and update polyline edge conditions.

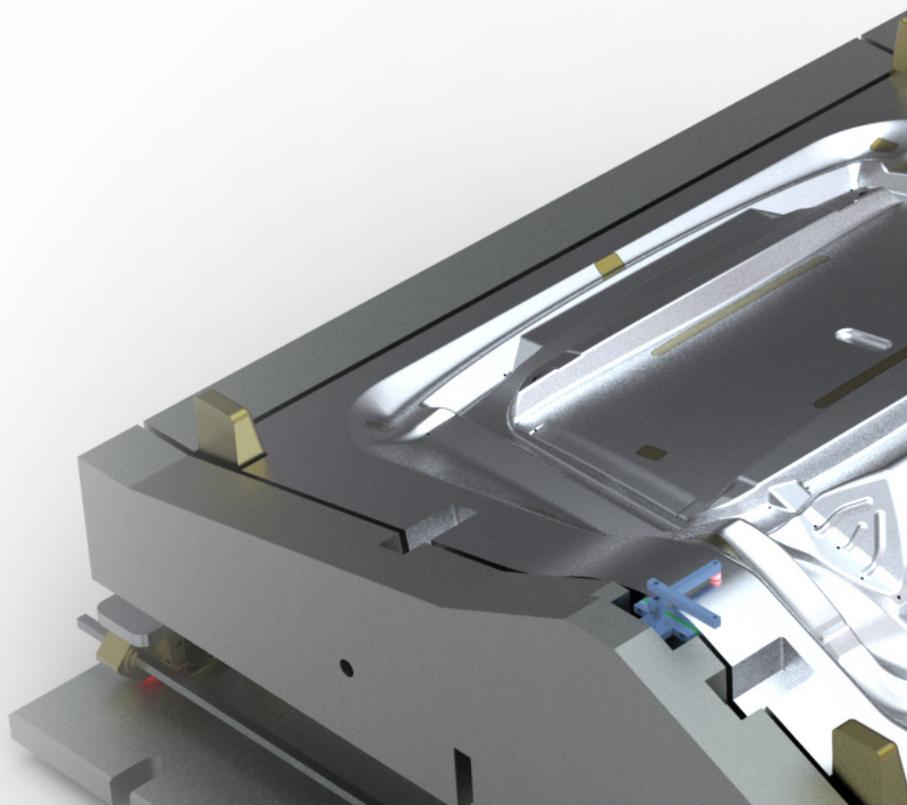
Bend Relief

An application developed for the automotive tooling industry. This powerful tool allows the user to select complex fillet radii (that may cause splitting or creasing during stamping) and automatically reconstruct the fillet conditions with new values and linear tangent extensions - even on imported data.



Draft Analysis

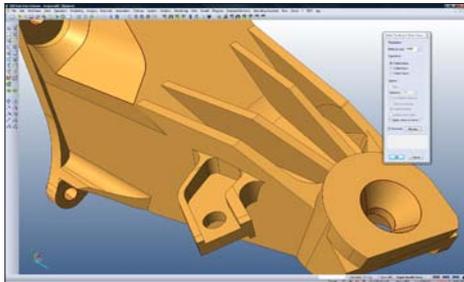
A very important application for the moulding industry. This tool allows the user to define multiple draft scenarios and graphically visualise the matching conditions providing a better understanding of the part mouldability.



n & Model healing

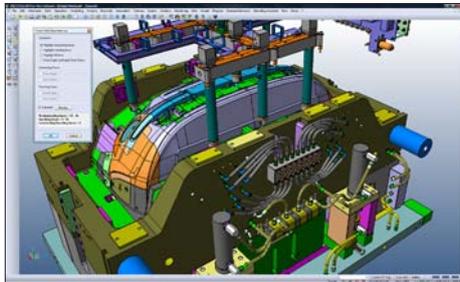
Detect Small & Sliver Faces

Model quality is an important consideration for design & manufacture. Miniature sliver faces are often the result of multiple boolean operations and can often be problematic. This tool automatically detects sliver faces and presents the user with multiple choices for removal and healing.



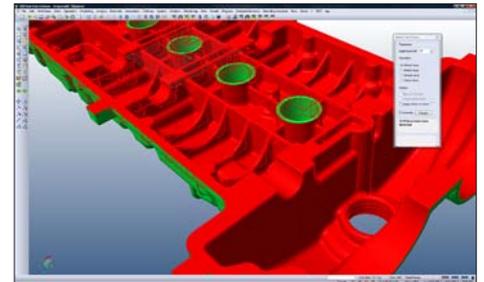
Check Solids Interference

This tool allows the user to check geometry for touching or interfering conditions. The results can be graphically displayed for each condition type and intersecting wireframe geometry automatically constructed.



Detect Seed Faces

Seed faces is a tool that allows the user to extract faces from a model based on tangency conditions. Ideal for core & cavity separation and for core box extraction for 'lost-wax' die castings.



Body Memory Diagnostics

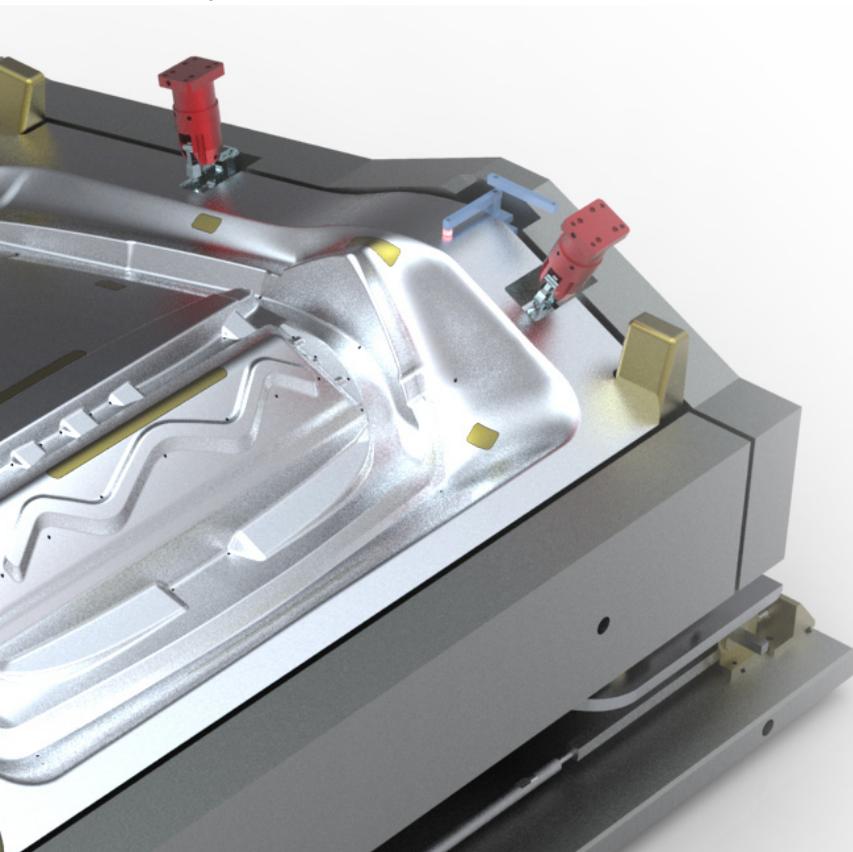
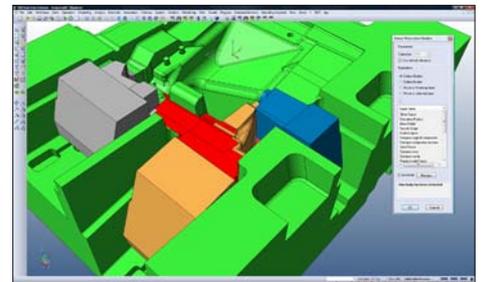
This powerful application is a toolbox to manage the memory allocation applied to individual surfaces or solid bodies. If model data appears to be larger than expected, this could be due to redundant attributes. This toolbox provides options to clean the geometry and remove unnecessary clutter.

Tip Data

This tool allows the user to select a target and reference origin and automatically review the relevant translation and rotation values to move from one position to another. The results can be output to a text file and is particularly useful when working with data in 'car-line'.

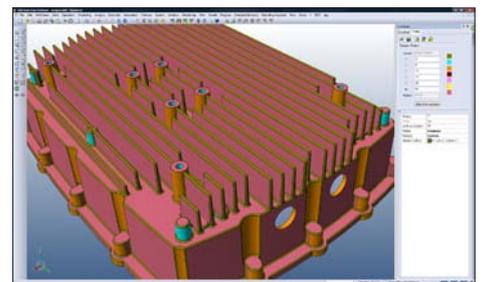
Detect Redundant Bodies

When working with imported models, or construction data, duplicate surface information is often present within the file. This application automatically detects redundant bodies and moves the data to user-defined layers.



Model Curvature

This option allows the user to define both the curvature and the curvature radius of surface and solid models. Ideal for validating minimum & maximum radii.



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