



# VISI-Flow

Vero International – with all the pieces of the puzzle for Mold Makers and Molders – CAD, CAM, and CAE

## Fill Analysis for Plastic Injection Molds Faster, More Accurate, and Lower Cost

VISI-Flow analyzes the “fill” process of plastic injection molds to insure part quality and increase productivity. Mold designers can quickly analyze mold designs with no prior knowledge of FEA technology. And with VISI-Flow’s full suite of modules (including cavity fill, part shape, and cooling analysis) the complete full function analysis job can be done.

### A Complete Solution

With VISI-Flow there are no limits to the size, shape, or complexity of a mold to perform an analysis. The system handles thick solid or thin film parts, hot or cold runner systems, single or multiple cavity inserts, cascade or family molds, and sequentially triggered gating.

The system includes a material database with specifications for over 1,700 of the most popular plastic materials. And for materials not in the database, users can add them.

### Fast and Accurate

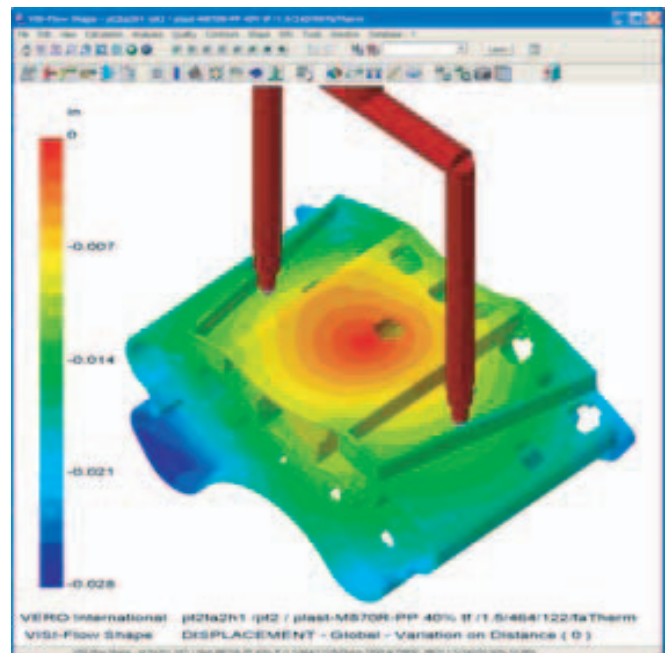
The VISI-Flow system is based on advanced mesh technology utilizing higher-order hexahedral elements. These mesh elements are the secret to VISI-Flow’s higher industry accuracy.

Hexahedrals are also the secret behind VISI-Flow’s speed. Runs typically take no more than 15 to 30 minutes. That means designers can try more “what-if” scenarios, complete their designs faster, and know they have the fastest possible design - all before any steel is cut.

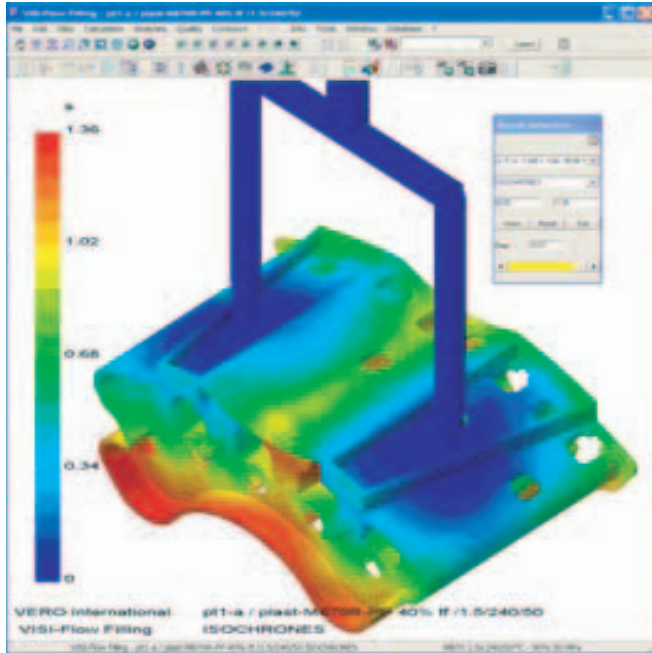
### The Information You Need

Use VISI-Flow to determine:

- The effects of gate location
- The required shot size
- Runner system characteristics
- Part shrinkage & warpage
- The effects of multiple cavity fills
- The effects of material selection
- The location of welds, traps, & sink marks
- Clamp tonnage
- Fiber orientation, and most importantly ...
- Resultant cycle times.



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## VISI-Flow “Fill” Analysis

The first step of a plastic injection mold analysis considers the fill process. The variables are part cavity geometry, runner type and geometry, gates and their locations, and material specifications.

The results of the analysis give engineers the ability to determine the best operating melt pressures, flow rates, packing pressures and holding times. Additional results indicate melt fiber orientation, frozen skin characteristics, and a part’s tendency to warp.

## VISI-Fow “Shape” Analysis

Finding the correct balance of operating variables that bring shrinkage and warpage under

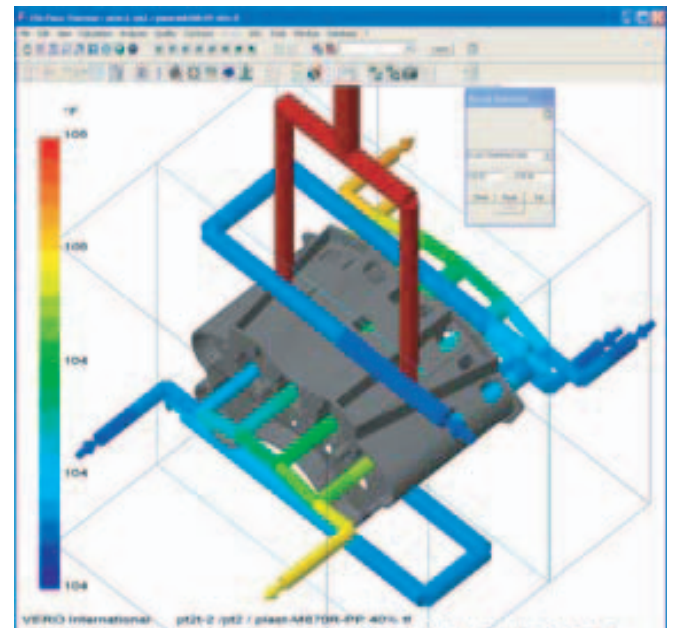
control is what the second step of the analysis process is all about. VISO-Flow’s fast calculation speed lets engineers quickly find the right set of variables that balance maximum productivity with the production of good parts.

## VISI-Flow “Thermal” Analysis

During a thermal analysis engineers can confirm that a molds cooling system will maintain the correct operating temperature for the production of good parts.

## Ease of Use

Only a basic knowledge of the injection molding process is needed to operate the VISO-Flow system. Users are usually productive immediately upon their return from the 2-day VISO-Flow system operations class.



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