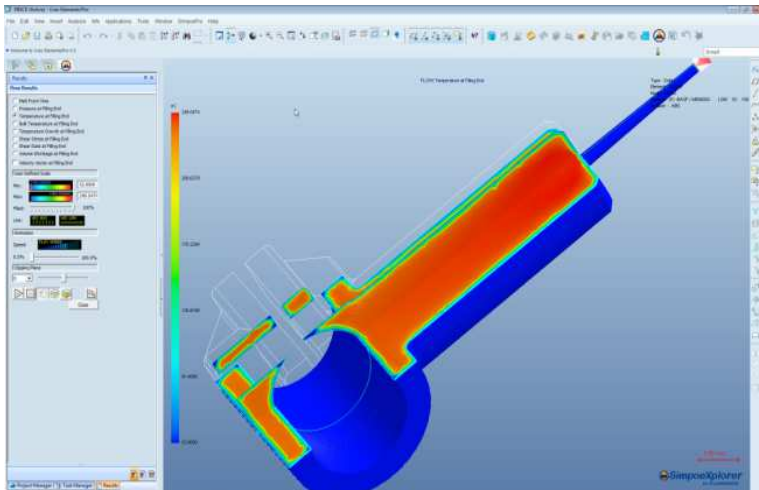# Simpoe

Plastic Injection made Simple !

- **Optimize the design of your plastic parts**
- **Avoid late design changes & mold re-engineering**
- **Fully embedded into PTC Creo, SolidWorks, Solid Edge**
- **Intuitive, User-friendly, Fast, Affordable**

User-friendly, easy to use, fast and affordable, SIMPOE plastic injection simulation software solutions are targeted towards all players involved in the plastic industry, whether they are product designers, mold makers or plastic part manufacturers.
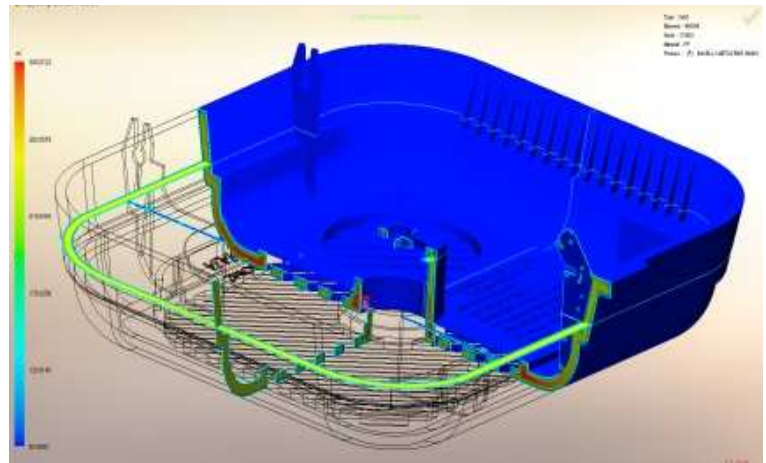
Plastic Injection Simulation for everyone

Fully upgradable, SIMPOE solutions address the complete plastic injection process, and each user can select the software configuration that best fits his/her needs. SIMPOE software solutions can simulate thermoplastics, thermosets, silicones

and elastomers, and are available as stand-alone, or fully embedded into the graphic user interface of major CAD software such as SolidWorks, PTC Creo or Solid Edge from SIEMENS

Simulate any type of part

SIMPOE all-in-one approach allows simulation of any kind of part, whatever its geometry, shell parts as well as plain solid parts, with or without inserts, as well as families of parts. SIMPOE also allows simulation of more advanced processes, such as gas-assisted injection, overmolding, multi-shots or multi-domain injection. Thanks to the unprecedented speed and ease of use of SIMPOE solutions, several scenarii can be evaluated in a few clicks, in order to define the optimum solution.

Communicate between all players

SIMPOE software solutions include automatic tools for gate location optimization, runner balancing, weld lines and air traps detection, etc. Analysis reports, including animations, can be automatically generated in various formats (HTML, Word, PowerPoint), and in several languages, to facilitate communication between all the players involved in the framework of a true collaborative product development process.

Download the free version SimpoeXpress* on www.simpoe.com

* SimpoeXpress is a limited version of the full commercial release.

Simpoe

SPECIFICATIONS:

→ **Input/Output Formats :**

CAD: Same as CAD software (embedded versions) or STEP/IGES/STL (stand-alone version).

FEA: ABAQUS; NASTRAN; ANSYS etc…

→ **Built-in material data base**
Supplied with more than 5,000 materials and customizable*

→ **Built-in machine data base**
Supplied with more than 3,000 references and customizable*

→ **Results:**
- Melt front Animation
- Temperature fields
- Pressure fields
- Volumic shrinkage*
- Shear stress*
- Shear rate*
- Warpage*
- Fibers Orientation *
- Weld Lines
- Air traps
- Sink marks*

→ **Automatic report generation (HTML, PPT and Word formats)**

→ **Built-in automatic surface and volume meshers.**

→ **Runners and cooling channels editor***

→ **Unit system** S.I-metric and BTU – Multilingual.

→ **Required Configuration :**
- MS Windows 7
- Active Licence Creo Parametric *(SimpoePro)*
- Active Licence SolidWorks *(SimpoeWorks)*
- Active Licence Solid Edge *(SimpoEdge)*
- 4 GB RAM or more
- Intel Core2Duo or more
- 32 or 64 bit
- 1 GB disk space
- Mouse & keyboard

* : depending on package
**: Not directly available from SIMPOE for SolidWorks users. Please contact your regular SolidWorks provider for SolidWorks Plastics solutions.

Each SIMPOE product line includes similar functionalities, whether it is the stand-alone version with its own graphic user interface (Simpoe-Mold), or the version fully embedded into the SolidWorks (SimpoeWorks), PTC Creo (SimpoePro) or Solid Edge (SimpoEdge) CAD software. Moreover, as SIMPOE technology is also embedded into SolidWorks solutions, SolidWorks users can easily upgrade their SolidWorks Plastics configurations to SIMPOE 's MFG or TOOL packages.

	SimpoeXplorer **	Simpoe ENG Package **	Simpoe MFG Package	Simpoe TOOL Package
Shell solid parts	✔	✔	✔	✔
Plain solid parts	✔	✔	✔	✔
Parts with inserts		✔	✔	✔
5,000 + material data base	✔	✔	✔	✔
User defined material database		✔	✔	✔
Injection machine database		✔	✔	✔
Gate location optimization	1	✔	✔	✔
Multi-gate injection		✔	✔	✔
Valve gates	✔	✔	✔	✔
Runner balancing		✔	✔	✔
Gas assisted injection		✔	✔	✔
Multi-shot injection		✔	✔	✔
Overmolding		✔	✔	✔
Bi-Refringence		✔	✔	✔
Melt front animation	✔	✔	✔	✔
Temperature field	✔	✔	✔	✔
Pressure field	✔	✔	✔	✔
Part shrinkage		✔	✔	✔
Clamping forces	✔	✔	✔	✔
Weld lines	✔	✔	✔	✔
Air traps	✔	✔	✔	✔
Automatic report generation	✔	✔	✔	✔
Perfect Cooling time		✔	✔	✔
Sink mark location		✔	✔	✔
Fiber Orientation	✔	✔	✔	✔
Sink mark values			✔	✔
Part deformation			✔	✔
Link to structural analysis			✔	✔
Export of counter-deformed geometry			✔	✔
Advanced cooling analysis				✔
Conform cooling analysis				✔
Cooling inserts				✔
Baffles & Bubblers analysis				✔

SIMPOE is a French software developer, with offices in USA, China, Taiwan, Germany and Italy. SIMPOE software are available through an international network of value added resellers and SIMPOE software are used by hundred of large as well as small companies throughout the world. SIMPOE is an active member of the French government sponsored competitive clusters Mov'eo and Systematics.

A Professional CAE Package for Plastic Injection Simulation

⚠Simpoe