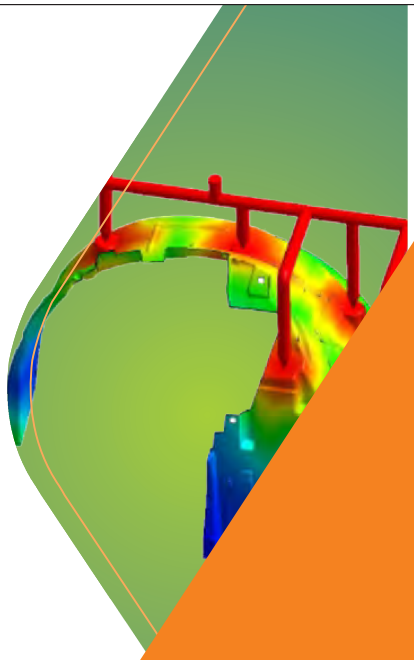
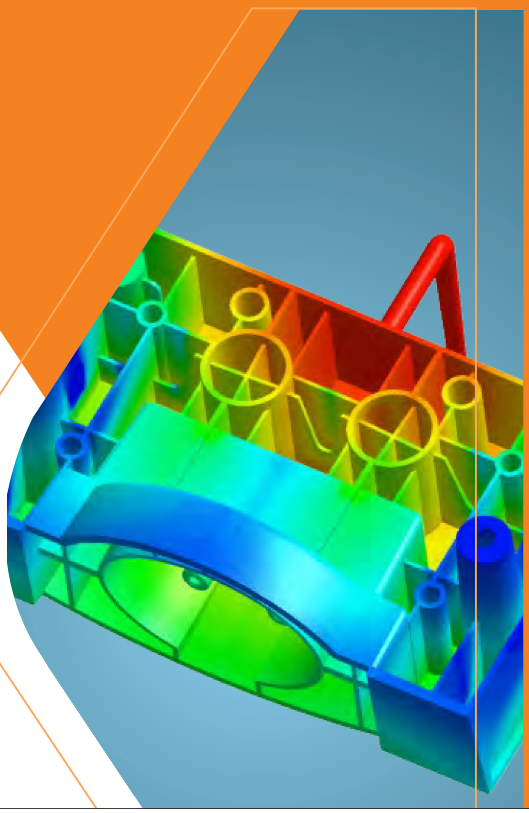
Moldex3D
MOLDING INNOVATION



eDesign

Ensure your design

Validate and optimize part/mold designs with true 3D simulations
Minimize design cycle, cost and time to market
Maximize productivity and return on investment



Moldex3D
MOLDING INNOVATION

Pioneering Automatic 3D Technology

Moldex3D eDesign is the globally leading manufacturing simulation and visualization software that enables designers and mold makers to validate and optimize their designs of plastic parts and molds.

Its most unique features are auto 3D meshing engine and intelligent modeling wizards, which help users build a meshed model for part verification more easily. Moreover, accurate analysis results assist users in checking the manufacturability, visualizing flow and thermal properties, optimizing process conditions, and troubleshooting if defects are predicted.

eDesign Basic Package

Compact molding solutions enable a filling analysis for quick part verification

- 3D multi-gate filling simulation
- Analyses for multiple cavities, flow balance, etc.

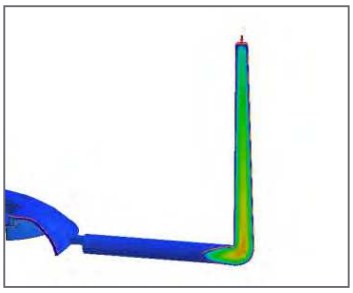
eDesign Package

Advanced molding solutions help tackle complex injection molded parts

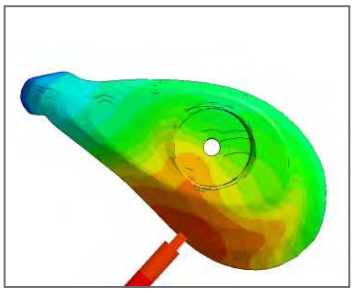
- Complete 3D molding simulations
- Support best-in-industry Solution Add-ons

Features

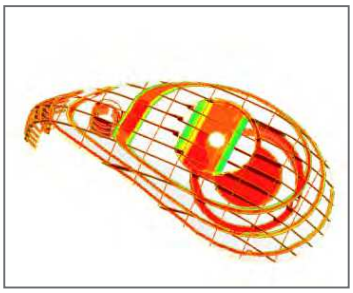
- Automatic 3D meshing engine
- Easy-to-use rapid modeling capabilities
- Support various types of gates and runners
- User-defined PPT, PDF, and HTML report generator
- Support complete Moldex3D material databank



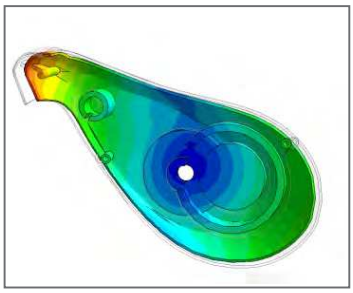
3D Runner Modeling



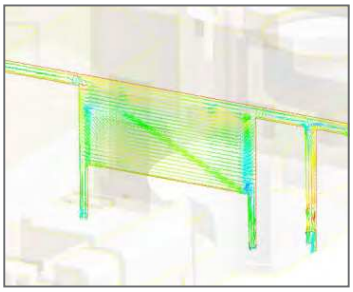
3D Meltfront Visualization



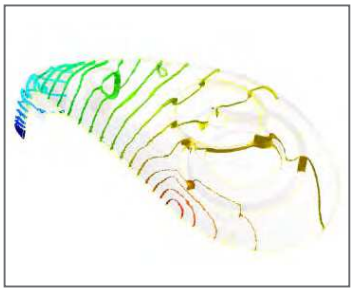
3D Temperature Slicing



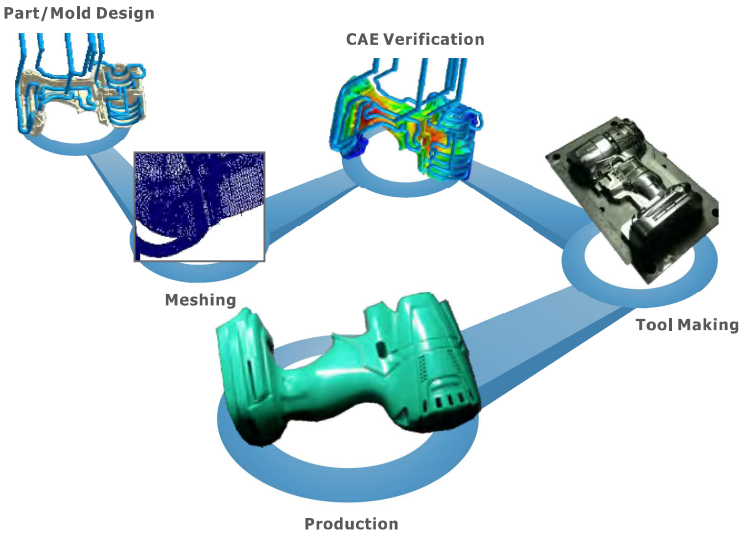
3D Warpage Prediction



3D Fiber Orientation



3D Pressure Iso-Surface Display



Stay Agile with Model Creation

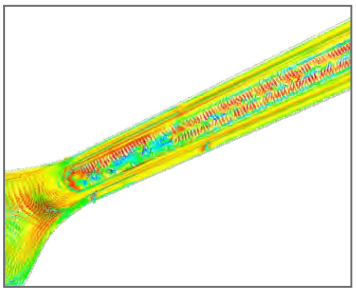
The pre-processor, Designer, offers an interactive user oriented interface, more friendly and more efficient for users to automatically generate 3D meshes. Its auto wizards guide users to create sprues, gates, runners, cooling channels, and moldbase step by step; all geometrical features can be well described without making additional efforts on model shape and layout.

- Auto mesh generating capability
- Easy-to-navigate user interface
- Support gate, runner, and cooling wizards
- Advise appropriate gate locations
- Automatically detect and use the multi-core capability

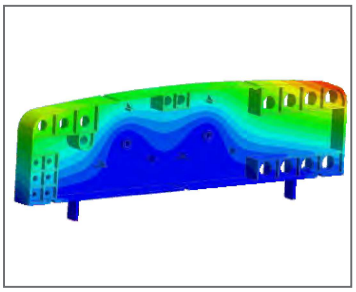
Simulation Drives Product Innovation

Companies nowadays are facing with similar manufacturing challenges: productivity performance and defective rate, cost reduction, time to market, market demands for various products in fit, form, and function, etc. Moldex3D eDesign helps these companies tackle significant issues and decide solutions more efficiently; 85% of common manufacturing problems can be predicted and solved upfront.

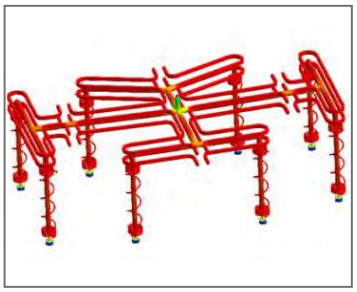
Moldex3D eDesign also supports advanced molding solutions for more complicated or process-oriented issues.



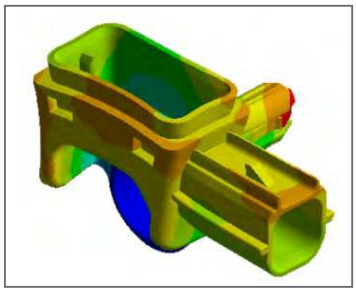
Fiber



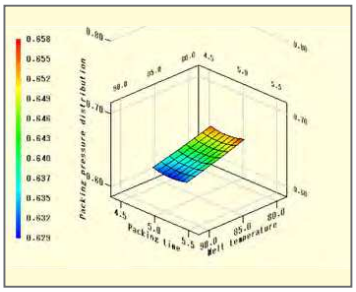
Stress



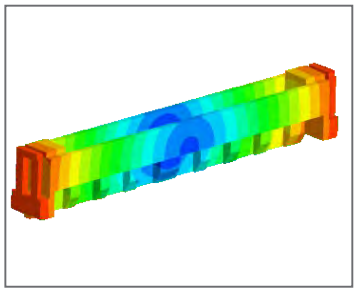
Advanced Hot Runner



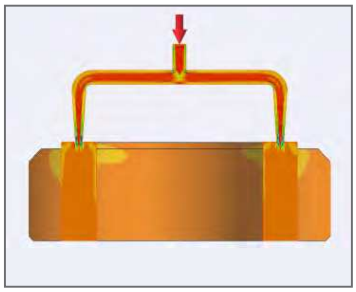
FEA / Micromechanics Interface



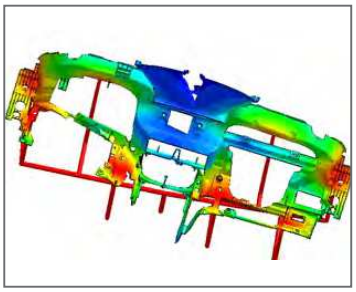
Expert



Viscoelasticity (VE)



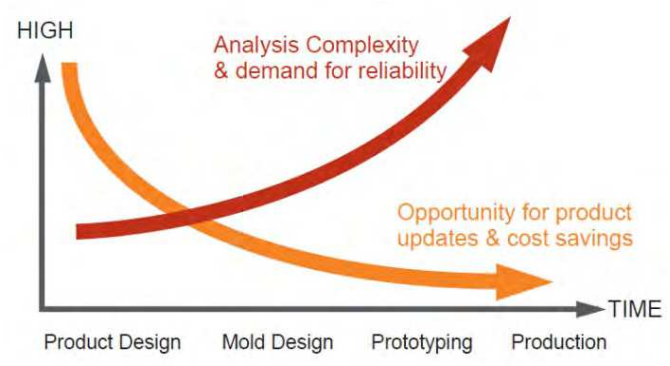
Powder Injection Molding (PIM)



MuCell®

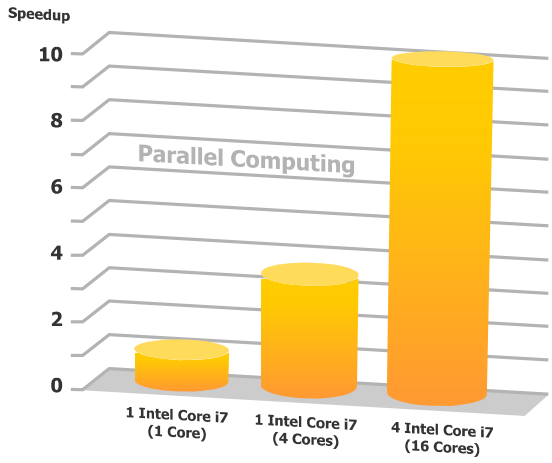
Easy Access to Greater Competitiveness

3D computer-aid-engineering (CAE) simulation is cost effective, energy saving, and reliable. Moldex3D eDesign enables part designers and mold makers to achieve design expectation and overcome manufacturing challenges. With Moldex3D eDesign, quick and accurate design verification becomes feasible and accessible.



Stay Ahead with Enhanced Speed

All Moldex3D solvers support multi-core and multi-CPU parallel processing, which can be applied locally at desktop or remotely on a computing cluster. It highly shortens simulation time and enhances computation accuracy.



Product Features

Module Capabilities	eDesign Basic	eDesign
Standard Injection Molding		
Designer*	YES	YES
Flow*	YES	YES
Pack*		YES
Cool*		YES
Warp*		YES
Multiple Component Molding (MCM)*		YES
Project*	YES	YES
Parallel Processing (PP)*	x4	x4
Solution Add-on		
CAD Interoperability		
eDesignSYNC (for Creo, NX, SOLIDWORKS®)	Optional	Optional
CADdocotor*	Optional	Optional
Cooling Channel Designer (CCD)		Optional
Fiber Reinforced Plastics		
Fiber*	Optional	Optional
Stress*		Optional
FEA Interface*		Optional
Micromechanics Interface		Optional
DOE Optimization		
Expert*		Optional
Special Molding Process		
Advanced Hot Runner		Optional
3D Coolant CFD		Optional
Viscoelasticity (VE)		Optional
Powder Injection Molding (PIM)	Optional	Optional
MuCell®		Optional

A module marked with an asterisk (*) is also available for thermoset analysis.
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System Requirements:

Platform	Windows	Microsoft Windows 8.1, 8, 7, Server 2012, 2008
Hardware	Minimum	Intel® Core i7 processor, 8 GB RAM, and at least 100 GB of free space
	Recommended	Intel® Xeon® E5 processor, 32 GB RAM, and at least 500 GB of free space

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