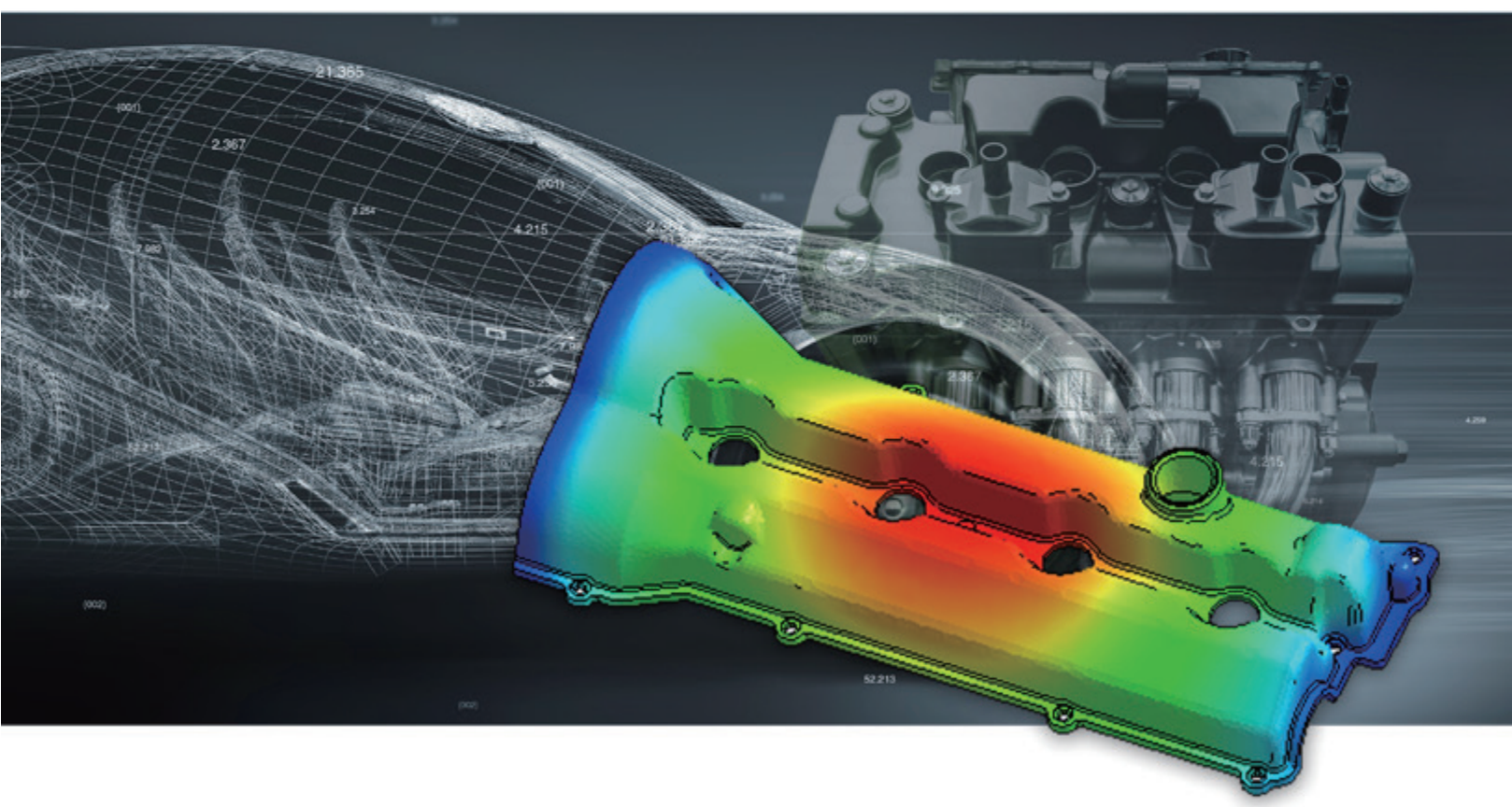
Moldex3D

Moldex3D eDesign

Ensure Your Design

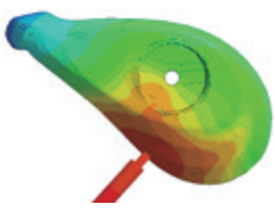


www.moldex3d.com

Pioneering Automatic 3D Technology

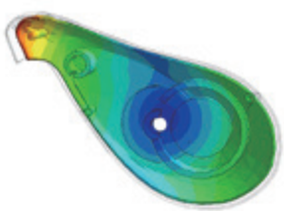
Moldex3D eDesign is the globally leading manufacturing simulation and visualization software that enables designers and mold makers to validate and optimize their designs of plastic parts and molds. Its most unique features are auto 3D meshing engine and intelligent modeling wizards, which help users 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.

3D Runner Modeling

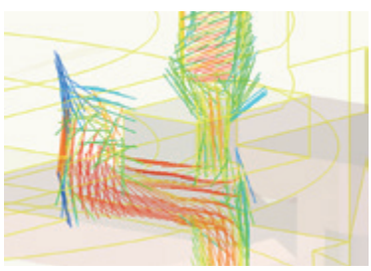


3D Meltfront Visualization

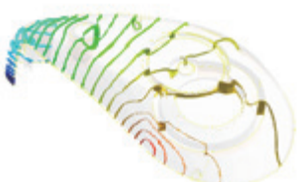
3D Temperature Slicing



3D Warpage Prediction



3D Fiber Orientation



3D Pressure Iso-Surface Display

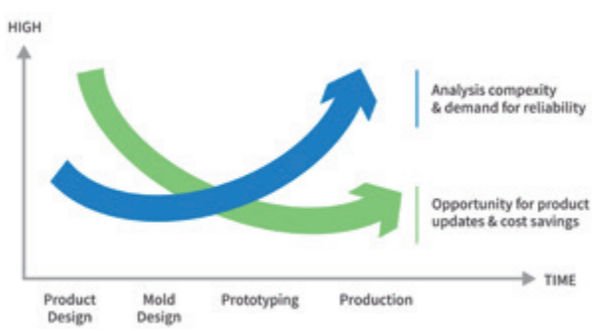
Stay Agile with Model Creation

The pre-processor, Designer, offers an interactive user-oriented interface, friendlier 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 generation capability
- Easy-to-navigate user interface
- Support gate, runner, and cooling wizards
- Advise appropriate gate locations
- Automatically detect and use the multi-core capability

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.



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.

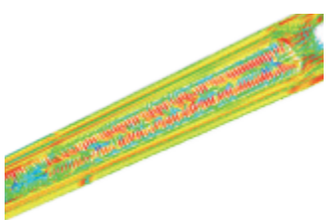
eDesign Package

Advanced molding solutions help tackle complex injection molded parts

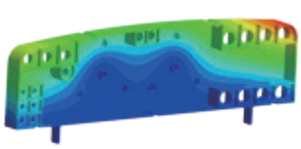
- Complete 3D molding simulations
- Support best-in-industry Solution Add-ons

Features

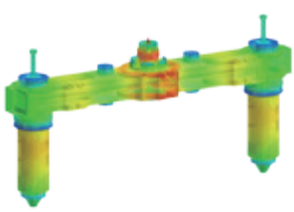
- Automatic 3D meshing engine
- Easy-to-use rapid modeling capabilities
- Support various types of gates and runners
- User-defined PPT, PDF, and HTML report generator
- Support complete Moldex3D material databank



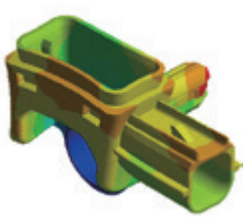
Fiber



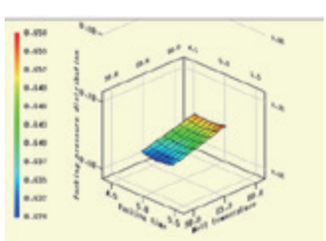
Stress



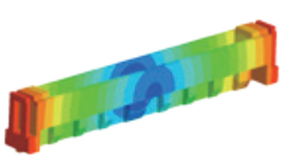
Advanced Hot Runner



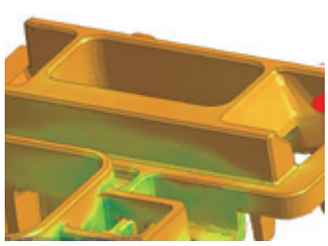
FEA/Micromechanics Interface



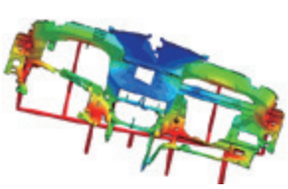
Expert



Viscoelasticity(VE)



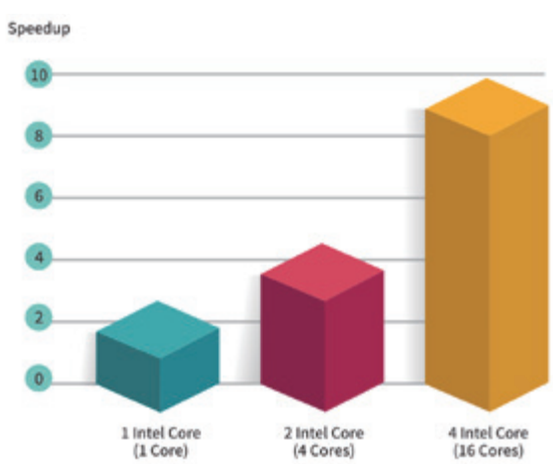
Powder Injection Molding(PIM)



Foam Injection Molding

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 Portfolio and Features

● Essential features contained | ○ Optional features

Standard Injection Molding	eDesign
Solver Capabilities	
Simultaneous Filling Analysis (max.)	1
Parallel Processing (PP)	4
Thermoplastic Injection Molding	●
Reaction Injection Molding (RIM)	●
Cloud Extension	●
Simulation Capabilities	
Designer	●
Flow	●
Pack	●
Cool	●
Warp	●
Multiple Component Molding (MCM)	●
3D Coolant CFD	○

Solution Add-on	eDesign
CAD Interoperability	
SYNC	○
Moldex3D CADdoctor	○
Moldex3D Cooling Channel Designer (CCD)	○
Fiber Reinforced Plastics	
Fiber	○
Stress	○
FEA Interface	○
Micromechanics Interface	○
Moldex3D Digimat-RP	○
DOE Optimization	
Expert	○
Special Molding Process	
Powder Injection Molding (PIM)	○
Advanced Hot Runner	○
Viscoelasticity (VE)	○
Foam Injection Molding	○

1.Moldex3D SYNC supports PTC® Creo®, NX, and SOLIDWORKS®.
2.Moldex3D FEA Interface supports Abaqus, ANSYS, MSC.Nastran, Nastran, NX Nastran, LS-DYNA, MSC.Marc, and Radioss.
3.Moldex3D Micromechanics Interface supports Digimat and CONVERSE.
4.Database: Thermoplastics materials, thermoset materials, molding materials, coolant materials, and mold materials.

System Requirements

Platform	
Windows	Windows 10, 8, 7, Server 2012, 2008 R2, HPC Server 2008 R2
Hardware	
Minimum	Intel® Core i7 processor, 16 GB RAM, and at least 1 TB free space
Recommended	Intel® Xeon® E5 processor, 32 GB RAM, and at least 2 TB free space

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