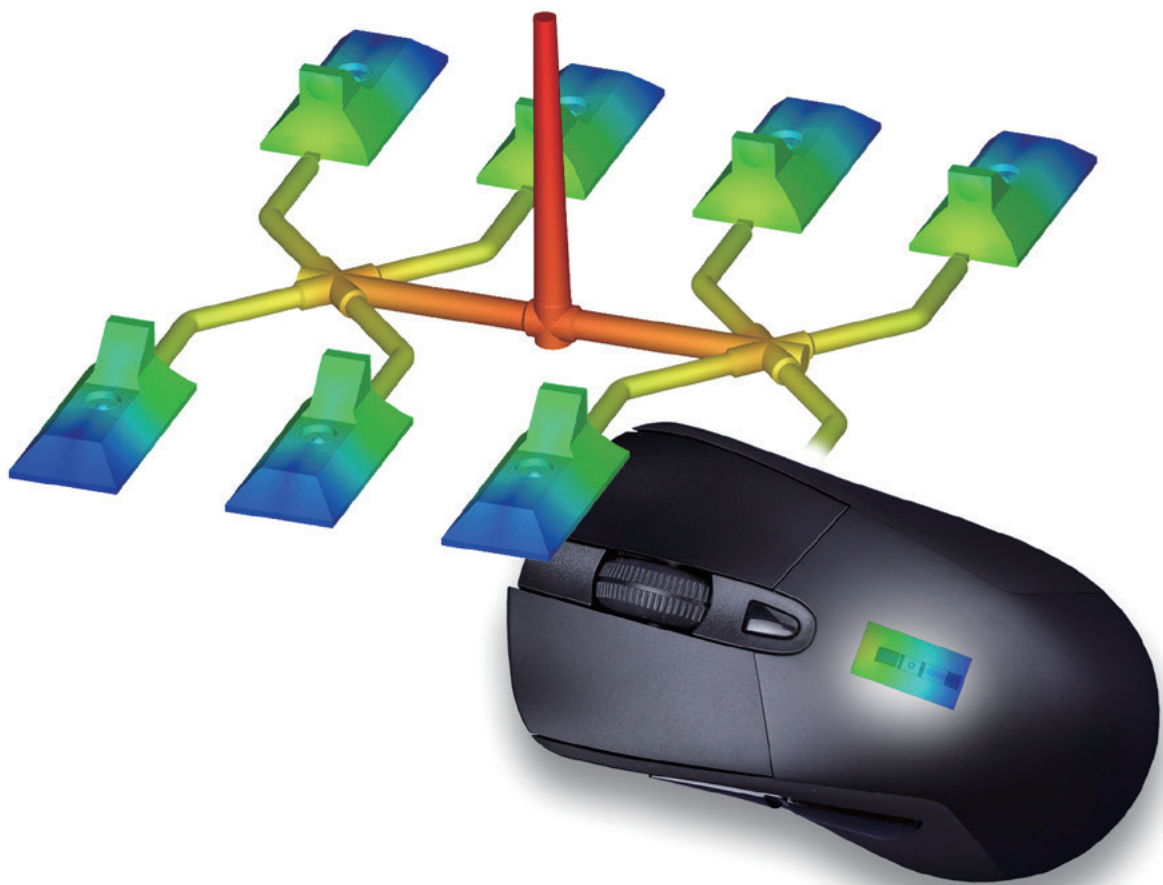


Moldex3D eDesign

Ensure Your Design



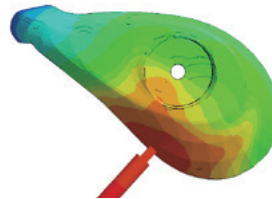
Pioneering Automatic 3D Technology

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.



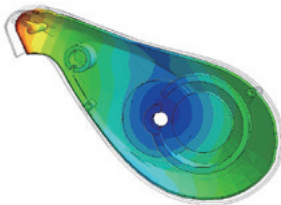
3D Runner Modeling



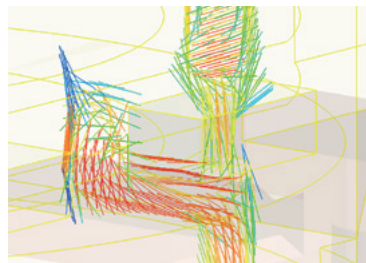
3D Meltfront Visualization



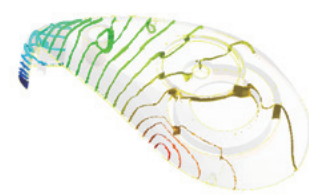
3D Temperature Slicing



3D Warpage Prediction



3D Fiber Orientation



3D Pressure Iso-Surface Display

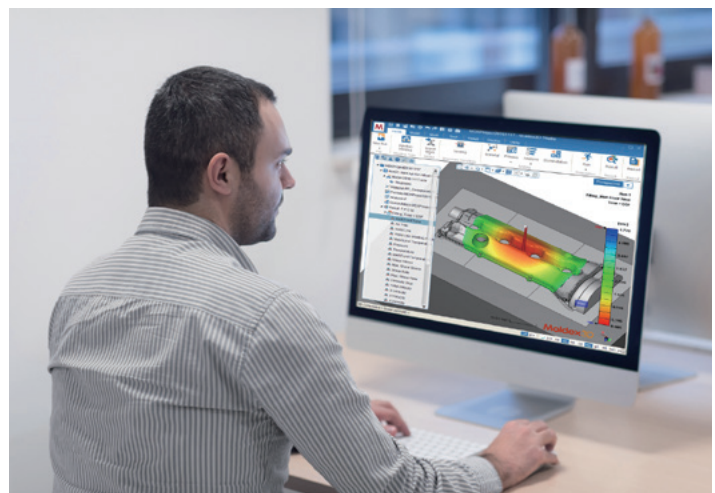
Easy Access to Greater Competitiveness

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.



Unified Platform with a More Intuitive User Interface to Streamline Simulation Workflows

- Single platform for all powerful Moldex3D simulation functions
- Integrated workflow through out to ensure modeling accuracy
- High quality render performance for upgraded usability
- Convenient result inspection and comparison functions
- A variety of Pre/Post tools and customized report



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.

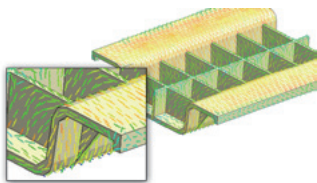
eDesign Package

Common manufacturing problems can be predicted and solved upfront.

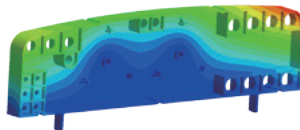
- Complete 3D molding simulations
- Support best-in-industry Solution Add-ons

Features

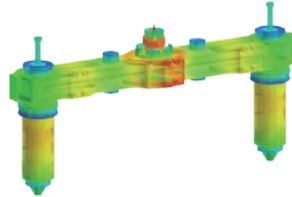
- Automatic 3D meshing engine
- Easy-to-use rapid modeling capabilities
- Support various types of gates and runners
- User-defined PPT, PDF, and HTML report generator
- Support complete Moldex3D material databank



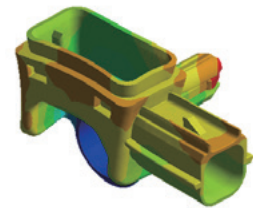
Fiber



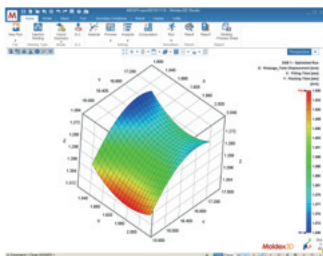
Stress



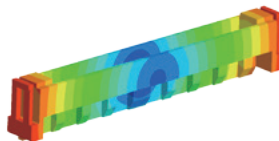
Advanced Hot Runner



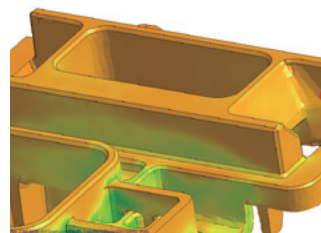
FEA/Micromechanics Interface



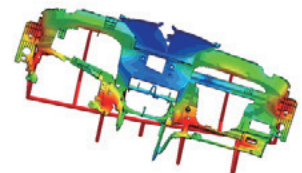
Expert



Viscoelasticity(VE)



Powder Injection Molding(PIM)

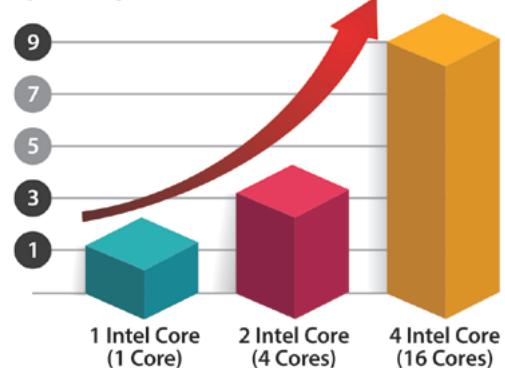


Foam Injection Molding

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.

Speedup



Product Portfolio and Features

● Essential features contained | ○ Optional features

Standard Injection Molding		Solution Add-on	
	eDesign		eDesign
Solver Capabilities		CAD Interoperability	
Simultaneous Filling Analysis (max.)	1	SYNC ³	○
Parallel Processing (PP)	4	Moldex3D CADdoctor	○
Cloud Extension	●	Fiber Reinforced Plastics	
Thermoplastic Injection Molding	●	Fiber ⁴	○
Reaction Injection Molding (RIM)	●	Stress	○
Simulation Capabilities		FEA Interface ⁵	
Material Database ¹	●	Micromechanics Interface ⁶	○
Pre-processor (Designer/Studio)	●	Moldex3D Digimat-RP	○
Flow	●	DOE Optimization	
Pack	●	Expert	○
Cool	●	Special Molding Process	
Warp	●	Powder Injection Molding (PIM)	○
Multiple Component Molding (MCM)	●	Advanced Hot Runner (AHR)	○
Machine Response ²	○	Viscoelasticity (VE)	○
3D Coolant CFD	○	Foam Injection Molding (FIM)	○

1. Database: Thermoplastics materials, thermoset materials, molding materials, coolant materials, and mold materials.
2. Machine Response function requires the machine file received from Machine Characterization service.
3. Moldex3D SYNC supports PTC® Creo®, NX, and SOLIDWORKS®.
4. Flat Fiber and Flow-Fiber Coupling function require additional license EnhancedFiber.
5. Moldex3D FEA Interface supports Abaqus, ANSYS, MSC.Nastran, NXNastran, LS-DYNA, MSC.Marc, and OptiStruct.
6. Moldex3D Micromechanics Interface supports Digimat and CONVERSE.

System Requirements

Platform	
Windows	Windows 10, 8, 7, Server 2016, Server 2012 R2
Hardware	
Minimum	Intel® Core i7 Sandy Bridge series, 16 GB RAM, and at least 1 TB free space
Recommended	Intel Xeon Platinum 8000 series processor, at least 64 GB RAM & 4 TB free space HDD, NVIDIA Quadro & AMD Radeon series graphic card and 1920 x 1080 screen resolution



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