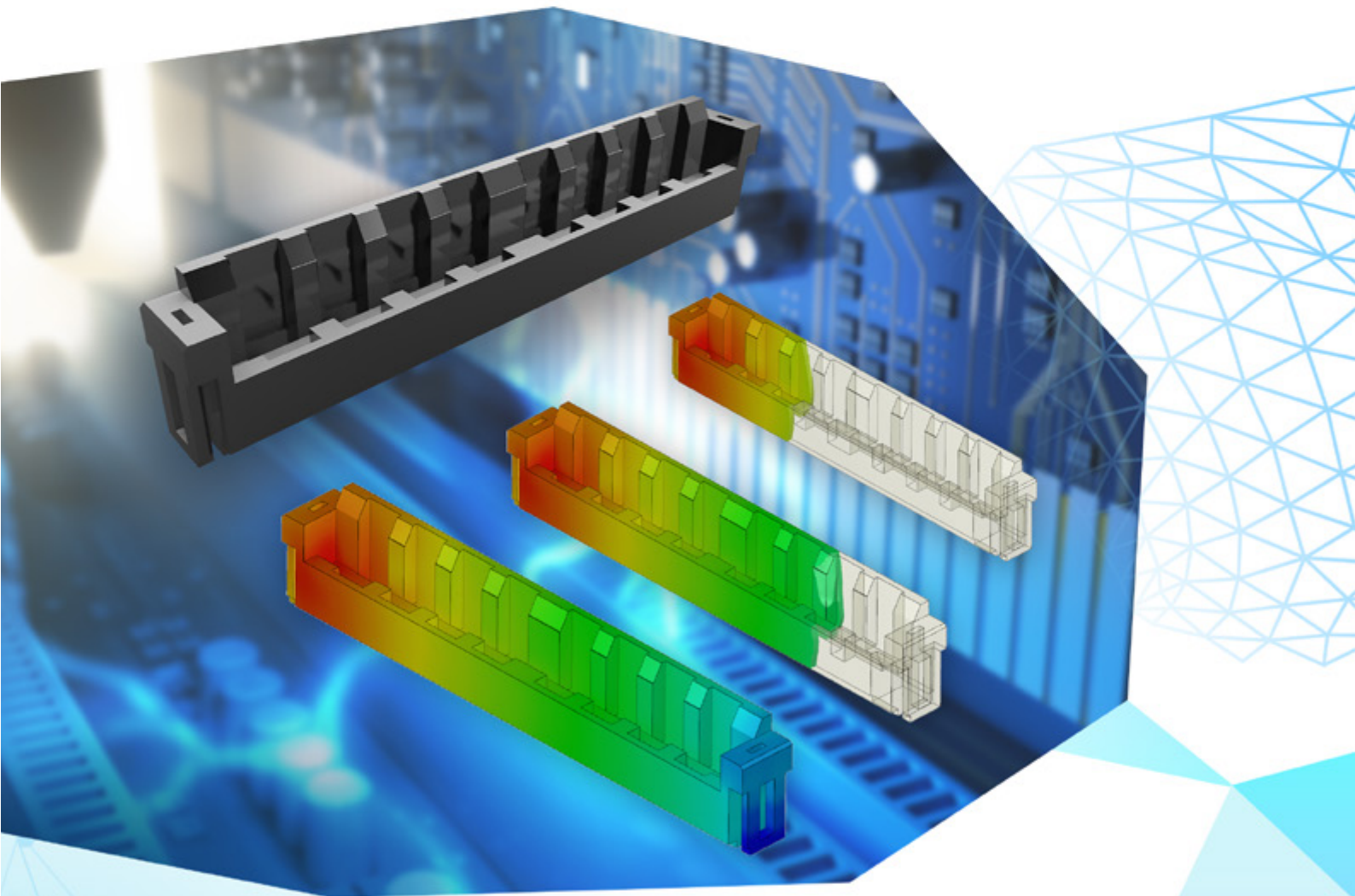


Moldex3D

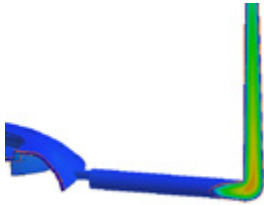
eDesign Plus

Ensure Your Design

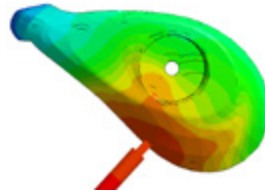


Pioneering Automatic 3D Technology

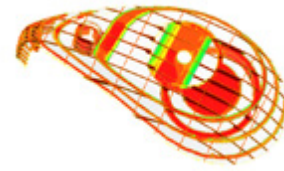
Moldex3D eDesign Plus is the globally leading manufacturing simulation and visualization software that enables designers and mold makers to validate and optimize their designs of plastic parts and molds. Its most unique features are auto 3D meshing engine and intelligent modeling wizards, which help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



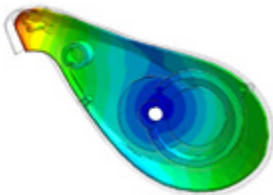
3D Runner Modeling



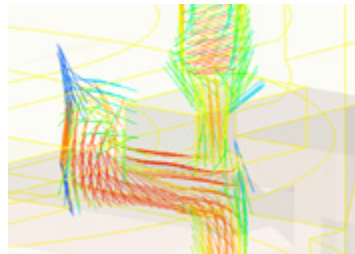
3D Meltfront Visualization



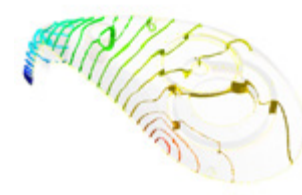
3D Temperature Slicing



3D Warpage Prediction



3D Fiber Orientation



3D Pressure Iso-Surface Display

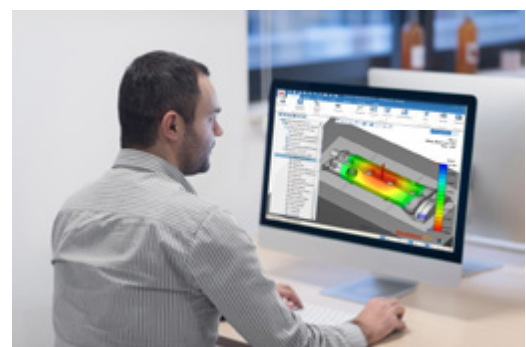
Easy Access to Greater Competitiveness

Moldex3D eDesign Plus enables part designers and mold makers to achieve design expectation and overcome manufacturing challenges. With Moldex3D eDesign Plus, 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
- A variety of Pre/Post tools and customized report



Simulation Drives Product Innovation

Moldex3D eDesign Plus helps companies tackle major design and manufacturing challenges to improve yield rate, minimize product defects, reduce costs, and shorten time-to-market. Statistics show that 85% of common manufacturing problems can be predicted and solved upfront when utilizing eDesign Plus. Let eDesign Plus pave your way to design optimization and help achieve smart manufacturing today.

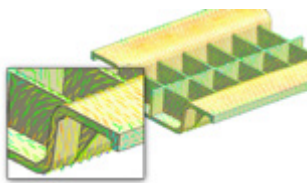
Package

Common manufacturing problems can be predicted and solved upfront.

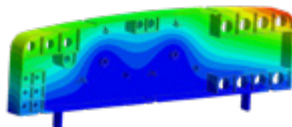
- Complete 3D molding simulations
- Support best-in-industry Solution Add-ons

Features

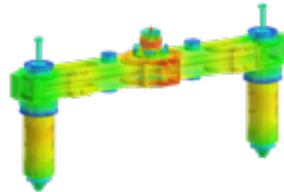
- Automatic 3D meshing engine
- Easy-to-use rapid modeling capabilities
- Support various types of gates and runners
- User-defined PPT, PDF, and HTML report generator
- Support complete Moldex3D material databank



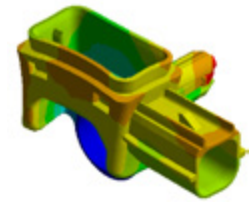
Fiber



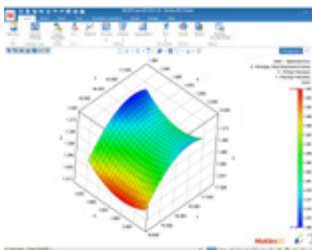
Stress



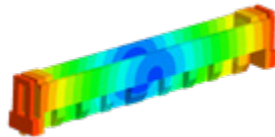
Advanced Hot Runner



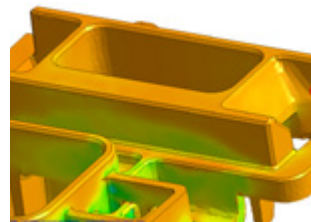
FEA/Micromechanics Interface



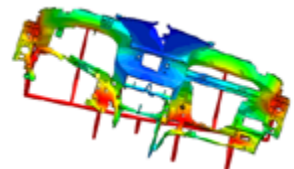
Expert



Viscoelasticity (VE)



Powder Injection Molding (PIM)

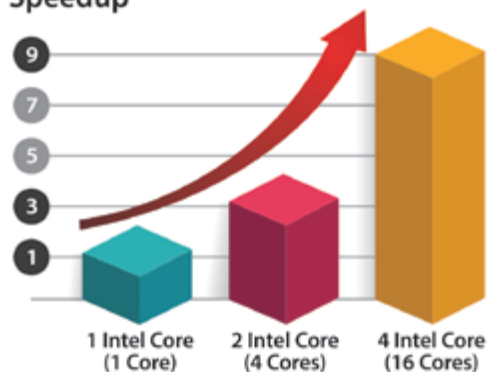


Foam Injection Molding

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	
Solver Capabilities		Automation & Interoperability	
Simultaneous Analysis (max.)	1	Expert (DOE)	○
Parallel Processing (PP)	8	API	○
Cloud-Connect	○	SYNC ⁵	○
Material Database ¹	●	Moldex3D CADdoctor	○
Thermoplastic Injection Molding	●	Cooling Channel Designer	○
Reaction Injection Molding (RIM)	●	iSLM ⁶	○
Pre-processing & Simulation Capabilities		Fiber Reinforced Plastics	
Pre-processor (Studio)	●	Fiber ⁷	○
CAD Geometry Model ²	●	FEA Interface ⁸	○
Flow	●	Micromechanics Interface ⁹	○
Pack	●	Moldex3D Digimat-RP	○
Cool	●	Advanced Analysis	
Warp	●	Machine Response ¹⁰	○
Multiple Component Molding (MCM)	●	Stress	○
3D Coolant CFD	○	Plastification	○
Moldiverse		Viscoelasticity (VE)	○
Material Hub Cloud (MHC) ³	●	Advanced Hot Runner (AHR)	○
University - Moldex3D Software Training ⁴	●	Molding Process	
		Powder Injection Molding (PIM)	○
		Foam Injection Molding (FIM)	○

1. Material Database: thermoplastics materials, thermoset materials, molding materials, coolant materials, and mold materials.
2. Import geometry from CATIA V5 and Rhino, as well as STEP, IGES, Parasolid and STL files.
3. Material Hub Cloud (MHC) is a cloud database offering the most up-to-date material properties for users to find suitable materials and alternatives.
4. The best on-line practical guide and demo videos by Moldex3D software experts.
5. Moldex3D SYNC supports PTC®Creo®, NX, and SOLIDWORKS®.
6. iSLM is an intelligent and interactive data management platform for plastic product development lifecycle.
7. Flat Fiber and Flow-Fiber Coupling function require additional license: EnhancedFiber.
8. Moldex3D FEA Interface supports Abaqus, Ansys, MSC Nastran, NX Nastran, LS-DYNA, MSC Marc, and OptiStruct.
9. Moldex3D Micromechanics Interfaced supports Digimat and CONVERSE.
10. Machine Response function requires the machine file received from Machine Characterization Service.

System Requirements

Platform	Windows	Windows 10, Windows11, Windows Server 2019
	Linux	CentOS 7 series, CentOS 8 series, RHEL 7 series, RHEL 8 series
Hardware	Minimum	
	CPU	AMD Ryzen™ 7 series, Intel® Core™ i7 series
	RAM	16 GB RAM
	HDD	20 GB free space (For Program Installation)
	Recommended	
	CPU	AMD EPYC™ Milan / Milan-X series, Intel® XEON® Gold / Platinum / Bronze series
	RAM	16GB x 8 With ECC / 3200Mhz
	HDD	4 TB SSD (For Project Management)
	Graphic Card	NVIDIA Quadro series, AMD Radeon series
	Screen Resolution	1920 x 1080

Note

1. Linux platform is used for calculation resource only. Moldex3D Pre/Post-processor does not support Linux platform.
2. To increase calculation efficiency and stability, it is recommended to switch off Hyper-Threading under RC/DMP structure. For memory population rules, please refer to your CPU processor type for optimized performance.

Moldex3D



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mail@moldex3d.com

For more information, please visit www.moldex3d.com

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Please refer to Moldex3D website for the latest product information.