

Liên hệ

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What's news in R13



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Moldex3D

MOLDING INNOVATION



About Moldex3D



Can Moldex3D?



Products



Learning



About Moldex3D

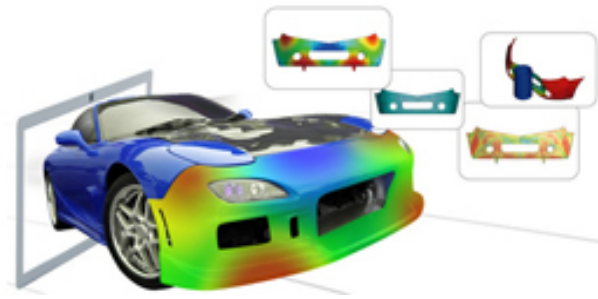
CoreTech System Co., Ltd. (Moldex3D) was founded in 1995, it has provided the professional plastic injection molding simulation solution "Moldex" series for the plastic injection molding industry, and the current product "Moldex3D" is marketed worldwide.

Committed to providing the advanced technologies and solution for industrial demands, CoreTech has extended the worldwide sales and service network to provide local, immediate, and professional service. Nowadays, CoreTech presents the innovation technology, which helps customers to troubleshoot from product design to development, to optimize design pattern, to shorten time-to-market, and maximize product ROI.

Customers



Automobile	High Tech/Electronics	Material/Equipment



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Work with my CAD

(http://khoathinh.com/vn/moldex_vn.aspx#_Work_with_my)

- Creo(Pro/E) ([http://khoathinh.com/vn/moldex_vn.aspx#_Creo\(Pro/E\)](http://khoathinh.com/vn/moldex_vn.aspx#_Creo(Pro/E)))
- NX (Unigraphics NX) ([http://khoathinh.com/vn/moldex_vn.aspx#_NX_\(Unigraphics_NX\)](http://khoathinh.com/vn/moldex_vn.aspx#_NX_(Unigraphics_NX)))
- SOLIDWORKS (http://khoathinh.com/vn/moldex_vn.aspx#_SOLIDWORKS)

Simulate my process (http://khoathinh.com/vn/moldex_vn.aspx#_Simulate_my_process)

Simulate my process

Moldex3D can successfully deliver precise and realistic simulation to the following processes:

- Hot Runner (<http://www.moldex3d.com/en/can-moldex3d/process/hot-runner>)

Moldex3D provides simulation tools for designers and engineers to obtain mechanism and critical information in hot runner molding. Users are able to investigate the processes and detect potential defects, and further achieve design optimization. Moldex3D helps companies to develop products with high quality and low costs and win in a globally competitive market.

- Insert Molding (<http://www.moldex3d.com/en/can-moldex3d/process/insert-molding>)

The multi-component molding like insert molding increases the diversity of injection molded products. It brings not only a fresh look but also multiple functions to a design.

- Variotherm (<http://www.moldex3d.com/en/can-moldex3d/process/variotherm>)

Moldex3D provides comprehensive tools to simulate various rapid heating and cooling molding conditions, integrating fully transient true 3D numerical approach by considering the interplay between filling, packing and cooling stages.

- Injection Compression Molding (<http://www.moldex3d.com/en/can-moldex3d/process/icm>)

Moldex3D ICM provides comprehensive tools to simulate injection compression molding by considering the interplay between filling, compression, cooling and warpage stages. It allows plastics melt to be injected sequentially or simultaneously with mold compression phase.

- Gas-Assisted Injection Molding (<http://www.moldex3d.com/en/can-moldex3d/process/gaim>)

Moldex3D GAIM provides tools to simulate gas injected into cavities through either melt entrances or any specific gas entrances.

- Water-Assisted Injection Molding (<http://www.moldex3d.com/en/can-moldex3d/process/waim>)

Moldex3D WAIM provides 3D solutions that enable users to visualize water penetration inside the mold cavity, get the insight of the process, and further optimize the mold design and process settings.

- Reactive Injection Molding (<http://www.moldex3d.com/en/can-moldex3d/process/rim>)

Moldex3D RIM offers true 3D solutions to analyze reactive injection molding process for thermosetting materials including unsaturated polyester, polyurethane, rubber compound, liquid silicone rubber, and epoxy molding compound.

- Encapsulation (<http://www.moldex3d.com/en/can-moldex3d/process/ic-package>)

Moldex3D Chip Encapsulation provides comprehensive 3D solutions that help engineers to analyze the complicated physical phenomena inherent in encapsulation processes and further optimize the design and process.

- Co-Injection Molding (<http://www.moldex3d.com/en/can-moldex3d/process/co-injection-molding>)

Moldex3D provides powerful modeling solutions that allow users to obtain insights of critical characteristics of co-injection process such as material interface and distribution, and therefore benefits companies on process optimization and development cost savings.

- Fiber-Reinforced Plastic Injection Molding (<http://www.moldex3d.com/en/can-moldex3d/process/fiber>)

Moldex3D Fiber provides accurate and detailed simulations of 3D fiber-reinforced plastic injection molding process, which helps users control anisotropic shrinkage for fiber-reinforced parts.

- Microcellular Injection Molding (<http://www.moldex3d.com/en/can-moldex3d/microcellular>)

Moldex3D MuCell® employs the fundamental physics of bubble nucleation and growth to model complex microcellular injection molding process realistically.

- Investment Casting (<http://www.moldex3d.com/en/newsletter/from-plastics-injection-molding-to-investment-casting>)

Moldex3D can not only help optimize the parameter setting of wax injection in precision casting process, reduce the potential defects of the molding process, but provide the design solutions for molding, accurately predicting the size of the wax pattern after shrinkage and optimizing the mold size.

- Conformal Cooling (<http://www.moldex3d.com/en/learning/top-story-a-cool-solution-moldex3d-r11-0-debuts-conformal-cooling-design-validation-and-3d-cooling-analysis>)

Moldex3D can successfully assist in evaluating the effectiveness of cooling layout designs and verify potential design problems at early stage.

Be Used MOLDEX3D in my industry

Automotive (<http://www.moldex3d.com/en/can-moldex3d/industry/automotive>)

With Moldex3D, auto designers or makers are able to manage the life cycle of a product from its conception, through design and manufacturing. This also helps component designers or suppliers to get rid of most potential problems in early stage.

Consumer Products (<http://www.moldex3d.com/en/can-moldex3d/industry/consumer-products>)

With Moldex3D, industry designers or manufacturers are able to detect potential problems in early design stages. Furthermore, Moldex3D simulation tools also offer various methods to reduce product variation and optimize processes.

Electronics (<http://www.moldex3d.com/en/can-moldex3d/industry/electronics>)

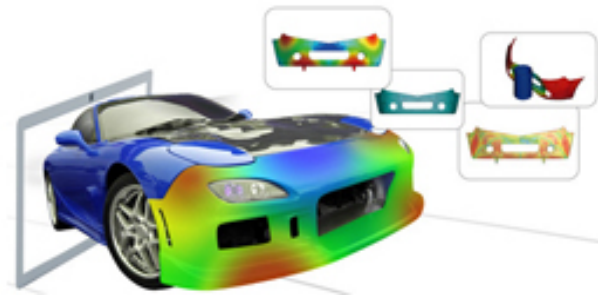
Moldex3D can provide complex injection molding process simulations, including conformal cooling, hot runner, multiple component molding, gas-assisted injection molding, etc. These advanced simulation tools empower designers, molders and manufacturers in electronics industry to make critical design decisions for reducing development costs, time to market and quickly optimizing product ROI.

Medical (<http://www.moldex3d.com/en/can-moldex3d/industry/medical>)

Moldex3D provides simulation for Fill, Pack, Cool, and Warpage, a complete simulation solution for injection molding manufacture process of medical product. Moldex3D aims to add value to each company by presenting problems and solutions, contributing to reduced time-to-market and prime product standard.

Optics (<http://www.moldex3d.com/en/can-moldex3d/industry/optics>)

Moldex3D Optics can extend to non-traditional injection process. This feature provides extensive applications on optical parts using injection compression molding (ICM) or multiple components molding process (MCM).



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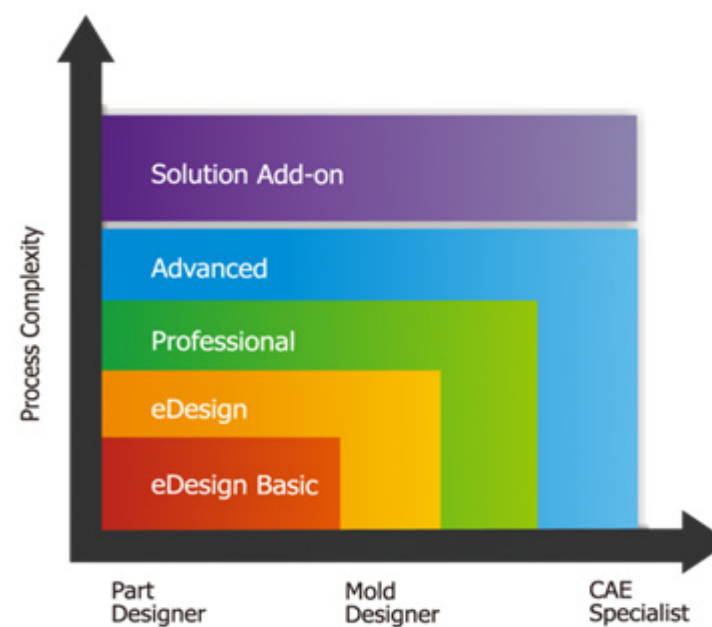
Products

Learning

Products



Moldex3D Products Overview



Moldex3D is the world leading CAE product for the plastics

injection molding industry. With the best-in-class analysis technology, Moldex3D can help you simulate the widest application range of injection molding processes to optimize product design and manufacturability, shorten time-to-market, and maximize product ROI.

eDesign Basic

Quick filling simulation tool with automatic meshing capability > [Learn More \(http://www.moldex3d.com/en/products/edesign-basic\)](http://www.moldex3d.com/en/products/edesign-basic)

eDesign

Complete molding simulation tool with automatic meshing capability > [Learn More \(http://www.moldex3d.com/en/products/edesign\)](http://www.moldex3d.com/en/products/edesign)

Professional

Efficient support for shell-like plastics in addition to eDesign > [Learn More \(http://www.moldex3d.com/en/products/professional\)](http://www.moldex3d.com/en/products/professional)

Advanced

Flexible extension for high-precision or special process simulation > [Learn More \(http://www.moldex3d.com/en/products/advanced\)](http://www.moldex3d.com/en/products/advanced)

IC Packaging

Design verification and optimization for the encapsulation process > [Learn More \(http://www.moldex3d.com/en/products/ic-packaging\)](http://www.moldex3d.com/en/products/ic-packaging)

Solution Add-on

Series of add-ons for specific industrial part process simulation > [Learn More \(http://www.moldex3d.com/en/products/solution-addons\)](http://www.moldex3d.com/en/products/solution-addons)

System Requirements

A. Supported Platform

Platform	OS	Remark
Windows/x86	Windows 8.1 and 8	Professional, Enterprise, Ultimate
	Windows 7 family	versions
Windows/x64	Windows 8.1 and 8	
	Windows 7 family	
	Windows Server 2008	Professional, Enterprise, Ultimate
	Windows HPC Server 2008	versions
	Windows Server 2012	

CentOS 5
family
RHEL 5
family
CentOS 6
family
Linux/ x86-64 RHEL 6
family
SUSE
Linux
Enterprise
Server 11
SP2

Pre and post
applications
do not
support
Linux
platform

B. Hardware Recommendation

Recommended

Intel®
CPU Xeon® E5
processor*

32 GB
RAM, and
RAM at least
500 GB of
free space

Minimum

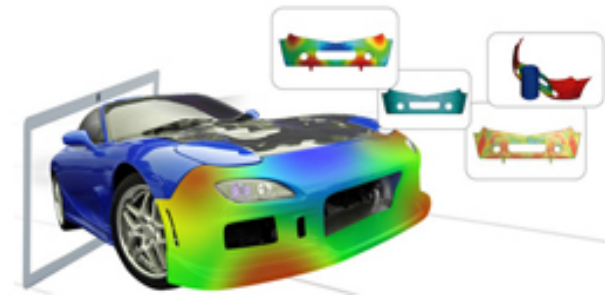
Intel®
CPU Core i7
processor

8 GB RAM,
and at
RAM at least 100
GB of free
space

* Intel Xeon E5-1620 is recommended and utilized for official benchmark (with 4x8G RAM). This CPU has four memory channels the maximum memory bandwidth of 51.2 GB/s. Each core in this CPU has one memory channel and average memory bandwidth of 12.8GB/s.

http://ark.intel.com/products/64621/Intel-Xeon-Processor-E5-1620-10M-Cache-3_60-GHz-0_0-GTs-Intel-QPI
(http://ark.intel.com/products/64621/Intel-Xeon-Processor-E5-1620-10M-Cache-3_60-GHz-0_0-GTs-Intel-QPI)

Note: In order to increase calculation efficiency and stability, it is recommended to switch off Hyper-Threading under RC/DMP structure.



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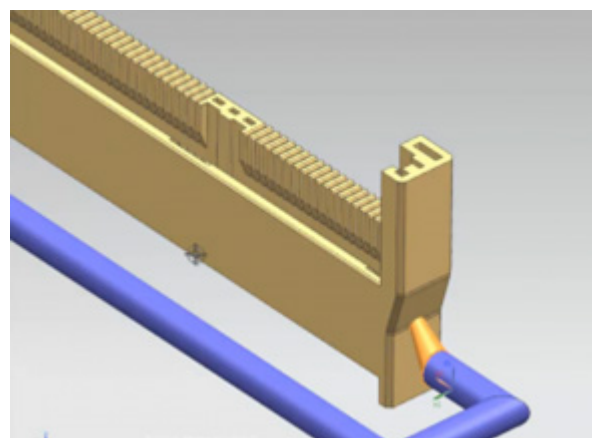
Learning

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- Case Studys
 - Connectors (http://khoathinh.com/vn/moldex_vn.aspx#_%3EConnectors)
 - Tutorials (http://khoathinh.com/vn/moldex_vn.aspx#_Tutorials)

Connectors



Using eDesignSYNC can be cost effective to your design. Throughout these case-study demonstrations, you will learn how to discover possible manufacturing defects and then how to improve the design to avoid or eliminate the problem.

In this demonstration, a typical connector will simulated by eDesignSYNC. By examining the result of the simulation, we can easily discover that the flow pattern of the part is unbalanced. By changing the thickness of one side of the connector, the result will be improved.

Choose your CAD to Watch:

NX: https://www.youtube.com/watch?v=AUjqKCLbL_s (https://www.youtube.com/watch?v=AUjqKCLbL_s)

PTC@Creo@: <https://www.youtube.com/watch?v=MpHNL4Og3hI> (<https://www.youtube.com/watch?v=MpHNL4Og3hI>)

Solidworks: <https://www.youtube.com/watch?v=MpHNL4Og3hI> (<https://www.youtube.com/watch?v=MpHNL4Og3hI>)

Tutorials

Moldex3D Compression Molding Tutorial (<https://www.youtube.com/watch?v=PJs9khCc7RA>)

Moldex3D R13 Designer BLM Mode Enhancements (<https://www.youtube.com/watch?v=PJs9khCc7RA>)

Moldex3D eDesignSYNC for NX Tutorial_General Operations (<https://www.youtube.com/watch?v=SVOT0FY5zx8>)

Moldex3D eDesignSYNC for NX Tutorial_Post Process (<https://www.youtube.com/watch?v=LEFQUBjeK9k>)

Moldex3D Powder Injection Molding Tutorial (<https://www.youtube.com/watch?v=wK5g4DJokVs>)

Moldex3D Designer BLM Mode and CADdoctor Tutorial (https://www.youtube.com/watch?v=_MEoNG-ZCSg)

NX Easy Fill Advanced (<https://www.youtube.com/watch?v=l7OS9FbV5hc>)

PTC® Creo® Case Study -> More (<https://www.youtube.com/watch?v=BEzzcVo7iqg&list=PLIz4SZ3ZvAXdfyAU66XSK8B4sRV7DxE8G>)

Moldex3D eDesignSYNC for NX Case Study -> More (https://www.youtube.com/watch?v=AUjqKCLbL_s&list=PLIz4SZ3ZvAXdUe3Q2Vok3d5gjclQG76ki)

Moldex3D eDesignSYNC for SOLIDWORKS Case Study -> More (<https://www.youtube.com/watch?v=MpHNL4Og3hI&list=PLIz4SZ3ZvAXdCl0RtWpkS4YviUYINf4J>)

Moldex3D eDesignSYNC for SOLIDWORKS Case Study -> More (<https://www.youtube.com/watch?v=MpHNL4Og3hI&list=PLIz4SZ3ZvAXdCl0RtWpkS4YviUYINf4J>)

Moldex3D eDesignSYNC for SOLIDWORKS Case Study -> More (<https://www.youtube.com/watch?v=MpHNL4Og3hI&list=PLIz4SZ3ZvAXdCl0RtWpkS4YviUYINf4J>)