

GoSimulate
Interactive CAE Simulations



FEA, Simple Yet Powerful



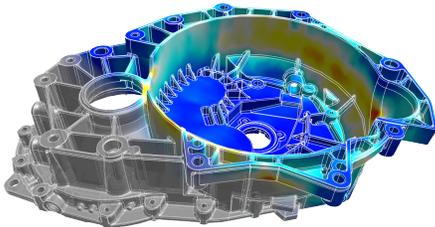


Enmesh GoSimulate - Simple yet powerful.



The direct link with IronCAD puts the possibility to conduct thermal, elastic and thermoelastic simulations, at just one click away. This enables the user to completely transform the design process by directly integrating CAE in each design step.

Transform Your Design Process



Minimize assumptions and maximize the flexibility of your design by allowing continuous simulation results to drive the process towards an optimized design. No longer let your CAE software merely verify the flaws of your finished design, but let it instead guide you all the way, even from the earliest conceptual stages.

Handle Complex Geometries

Enmesh GoSimulate skips the tedious, time consuming, and inherently complex process of creating simplifications of the CAD geometry and automatically generates appropriate and adaptive meshes without the need of user interaction. The use of exact geometry in combination with mesh refinement leads to a reliable and efficient simulation process, that allows you to have time to test different approaches and thus gaining confidence in the final design of your product.

Time Saving

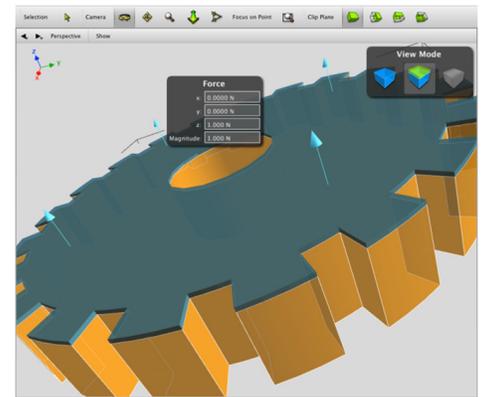
Another significant time saving factor is that, the simulation cases are carried from the conceptual stage to final product by keeping track of face identities in your CAD model, and are therefore only needed to be defined once. Enjoy the ability to be able to carry out many simulations for even minuscule design changes, instead of a few at the very end of the process; this at a fraction of the time, with greater knowledge of its structural properties and complete confidence in the end product.

User Friendly

The program hides much of the complexity involved with the process of CAE computations and minimizes manual input as well as the need for expert CAE knowledge. This approach allows more users to feel confident in using a CAE product, which was previously often regarded as out of reach for the average designer. The intuitive user-interface of Enmesh GoSimulate keeps the

information always at your reach - simple yet powerful.

The Add-In



The GoSimulate Lite Add-In to IronCAD allows the user to control the most essential functionality in GoSimulate Lite. The user may launch the program, clear the Workbench and transfer a selected part to GoSimulate Lite.



Contact your local IronCAD Representative:



 Enmesh™	GoSimulate Lite	GoSimulate Full
Problem Types		
Static heat analysis	■	■
Static elasticity analysis	■	■
Static thermoelastic analysis		
Plugin Specific		
Data communication	Local machine	Newtwork/Internet
Manual geometry updates	■	■
Automatic geometry updates		■
IronCAD views reflected in GoSimulate	■	■
Assigned materials exported		■
Export models to file		■
General Features		
Multiple components (Non-interfacing)	■	■
Simulation setup saved	■	■
Simulation results saved		■
Multithreaded solver		■
Clip planes		■
Report generator		■
Heat Boundary Conditions		
Fixed temperature	■	■
Heat flux	■	■
Convection	■	■
Elastic Boundary Conditions		
Displacement	■	■
Mixed	■	■
Pressure	■	■
Force	■	■
Bearing force	■	■
Spring force		■
Local body load	■	■
Gravity	■	■
Torque		■
Post Process		
Temperature	■	■
Normal heat flux	normalized	■
Displacement	■	■
Von Mises stress	normalized	■
Principal stresses		■
Principal strain		■
Convergence tools	■	■
Editable Value Ranges		■
Mesh density		■



 Enmesh™	GoSimulate Lite	GoSimulate Full
Support		
Maintenance updates	■	■
Feature updates*	■	■
Support forum access	■	■
Static user support	■	■
Direct user support	Limited	Extensive

(* Feature updates means that the list of features in GoSimulate will be extended continuously, and that this chart only reflects the features available at the time of writing.

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