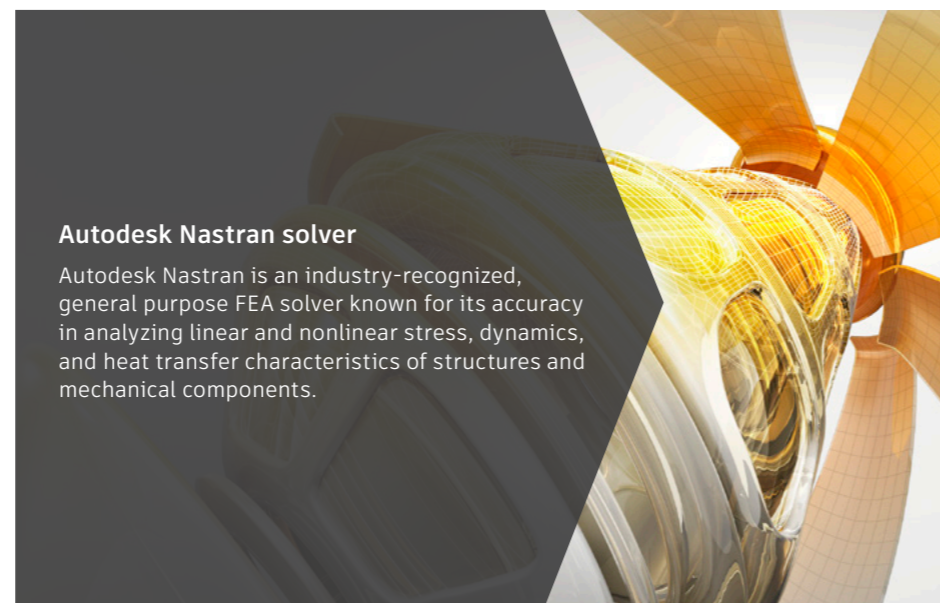# AUTODESK® NASTRAN® IN-CAD 2018

CAD-embedded advanced mechanical simulation

AUTODESK

Delivering CAD-embedded advanced finite element analysis

Use advanced mechanical simulation directly in your CAD system with the industry-trusted Autodesk Nastran solver

Autodesk® Nastran® In-CAD software, a general purpose finite element analysis (FEA) tool embedded in your CAD system, is powered by the Autodesk® Nastran® solver and offers simulation spanning across multiple analysis types, such as linear and nonlinear stress, dynamics, and heat transfer.
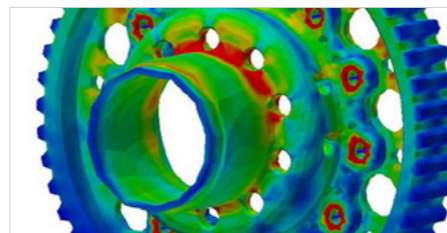
Autodesk Nastran solver

Autodesk Nastran is an industry-recognized, general purpose FEA solver known for its accuracy in analyzing linear and nonlinear stress, dynamics, and heat transfer characteristics of structures and mechanical components.
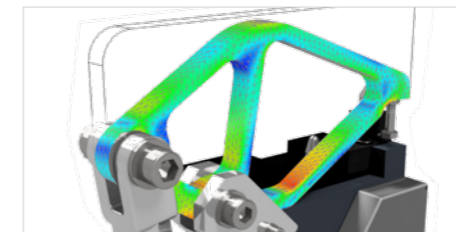
"We went for Nastran In-CAD because it fell into our digital prototyping philosophy. Inventor CAD integration makes it easier to make design changes."

−Bjorn Tore Ekerhovd
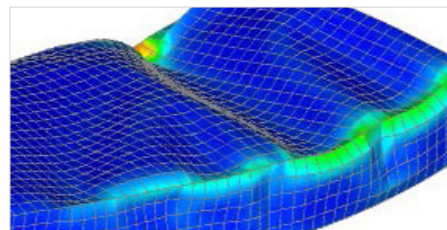Engineering Manager
Mento Services

3D CAD-embedded tool

To meet the demands of an increasingly competitive global market, manufacturing firms face intense pressure to constantly innovate, reduce development cycles and time to market, and avoid in-field failures while staying profitable. There are powerful benefits that a CAD-embedded FEA technology can bring to your product development process.
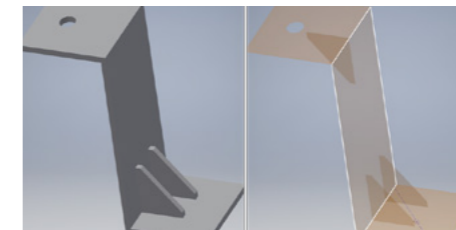
Extensive material models

Material data is vital to the accuracy of engineering simulation in design. Simulation of materials such as metal, composites, rubber, and plastics help users learn more about how a product will perform—or even how it might fail. Autodesk Nastran In-CAD supports a wide range of linear and nonlinear materials allowing for better understanding of the real-world behavior of products.

Advanced analysis

Start with basic analysis for exploring the viability of design alternatives and concept validation and move on to advanced analysis if and when powerful analyst tools are needed. Autodesk Nastran In-CAD has a wide range of analysis capabilities from basic to advanced—linear and nonlinear, dynamic analyses, and powerful automated impact and drop testing.

Automatic Midplane Mesher

You can automatically idealize solid CAD parts as shell elements. This lets you reduce model size and provide more accurate results for thin parts.

Learn more or purchase

Access specialists worldwide who can provide product expertise, a deep understanding of your industry, and value that extends beyond your software. To license Nastran In-CAD software, contact an Autodesk Authorized Reseller. Locate a reseller near you at **www.autodesk.com/reseller.**

Autodesk Education

Autodesk offers students and educators a variety of resources to help ensure students are prepared for successful design careers, including access to free* software, curricula, training materials, and other resources. Anyone can get expert guidance at an Autodesk Authorized Training Center (ATC®) site, and validate skills with Autodesk Certification. Learn more at **www.autodesk.com/education.**

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