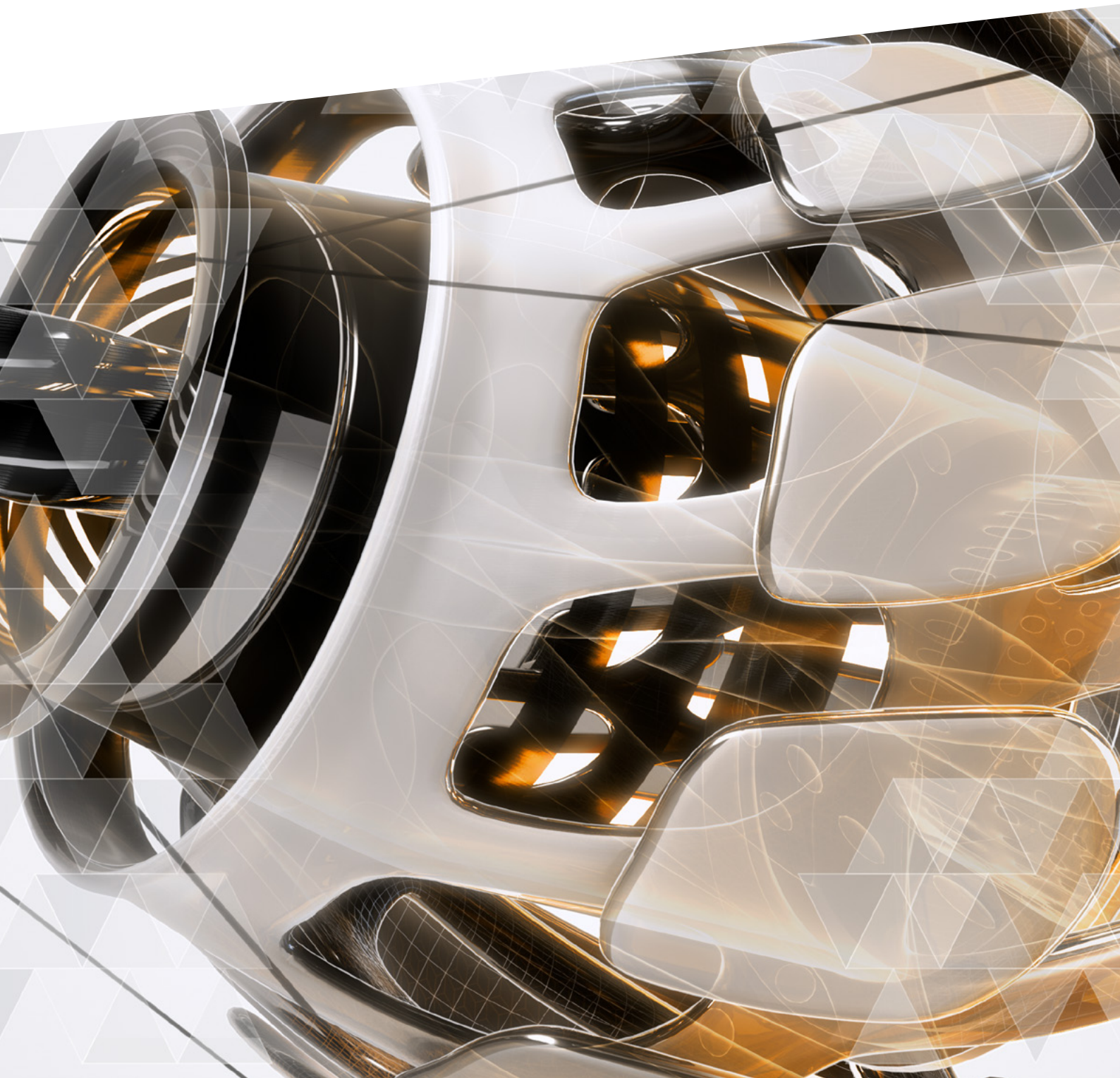


Make great products with  
professional grade engineering tools





# Make product development with Autodesk Inventor your competitive advantage

## Facing these challenges

- Product design teams need to increase innovation while reducing the time to market.
- Designers are worried about losing investments in existing DWG™ design data.
- Designers need to optimize product performance and make accurate design decisions without building physical prototypes.
- Downstream users require rapid creation of production-ready drawings.
- Designers can't easily find and reuse designs.
- Piping and wiring designs take too long to develop.
- Need to design complex parts and assemblies and the tooling required to manufacture them in a single integrated solution.

## Deliver innovative products faster

Autodesk Inventor provide professional grade engineering solutions for 3D mechanical design, simulation, tooling creation, and design communication that help you take advantage of a product development workflow to make great products, cost-effectively, in less time. Autodesk Inventor software is the foundation of the Autodesk solution for product development. The Inventor model is an accurate 3D digital model that enables you to validate the form, fit, and function of a design as you work, minimizing the need to test the design with physical prototypes.

By enabling you to design, visualize, and simulate your products digitally, Inventor software helps you connect more effectively, reduce errors, and deliver great product designs faster.

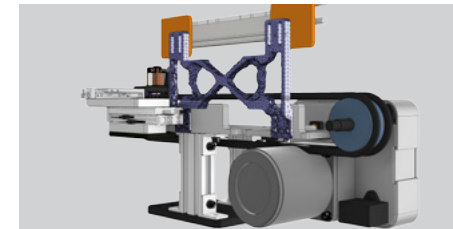
## Design and validate products digitally

With an intuitive design environment for developing initial concept sketches and models of parts and assemblies Inventor provides powerful parametric modeling, robust direct editing tools and advanced surfacing modeling capabilities with T-splines. You can automate the advanced geometry creation of intelligent components, such as plastic parts, steel frames, rotating machinery, tube and pipe runs, and electrical cable and wire harnesses. By simulating stress, deflection, and motion, you can optimize and validate your design under real-world conditions, before the product or part is ever built.

Image courtesy of Briggs Automotive Company Ltd.

“With Inventor, you can plan the whole design from top to bottom and reduce the potential for errors.”

—Jia-Qi Wang  
Designer  
Harbin Boiler Factory



## Create the best design possible

Autodesk Inventor includes shape generator tools that work directly inside of Inventor for the optimization and lightweighting of components. Shape generator allows you to specify loads and conditions components will face and provides an optimized design based on your target weight reduction and geometry requirement.



Image courtesy of Briggs Automotive Company Ltd.

## Improve design collaboration and communication

Reduce errors and associated engineering change orders before manufacturing by generating manufacturing documentation directly from your validated 3D digital model. Inventor is tightly integrated with Autodesk® Vault, enabling the efficient and secure exchange of design data and promoting earlier collaboration between design and manufacturing workgroups. AnyCAD technology provides an associative connection with STEP, Catia, Solidworks, NX, PTC CREO, Wildfire, Autodesk Alias software, and AutoCAD directly to Inventor without file translation. AnyCAD technology enables collaboration in a multiCAD design environment.



Image courtesy of Engineering Center LTD, Russia.

## AutoCAD users: move to professional grade product development

With Autodesk Inventor software, you can easily integrate AutoCAD® and 3D data into a single digital model to create a virtual representation of the final product. Inventor software helps you realize the benefits of 3D product development by providing an associative connection to native DWG files so there's no risk of inaccurate translations. Utilizing valuable DWG data with Inventor can help you compete more effectively, service your clients better, and make great products.

## 10 reasons to choose Autodesk Inventor

- Shape generator allows you to build the best and most efficient design possible.
- Open and connected workflow for non-Inventor data.
- Parametric modeling, direct modeling, free-form and flexible sketching.
- Improved large assembly and drawing performance.
- Rules-based design and automation tools to accelerate design.
- Advanced visualization, illustration, and animation tools.
- Automated and associative parts lists and bills of materials.
- Easy-to-use motion simulation and stress analysis tools.
- Quickly and accurately adds routed systems and tube and pipe runs to your 3D designs.
- Inventor includes integrated data management with Autodesk Vault software.

## Make Great Products

Autodesk Inventor helps you design better quality products, faster. Do more with Inventor when you connect it with other product design tools in the Product Design Collection.

- Connect 3D models with 2D standards-based parts and tools for automating mechanical detailing tasks.
- Associatively connect 2D electrical design with 3D mechanical design models.
- Conceptualize, plan, and validate manufacturing facilities.

Learn more at [www.autodesk.com/products/inventor/overview](http://www.autodesk.com/products/inventor/overview).

## Learn more or purchase

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