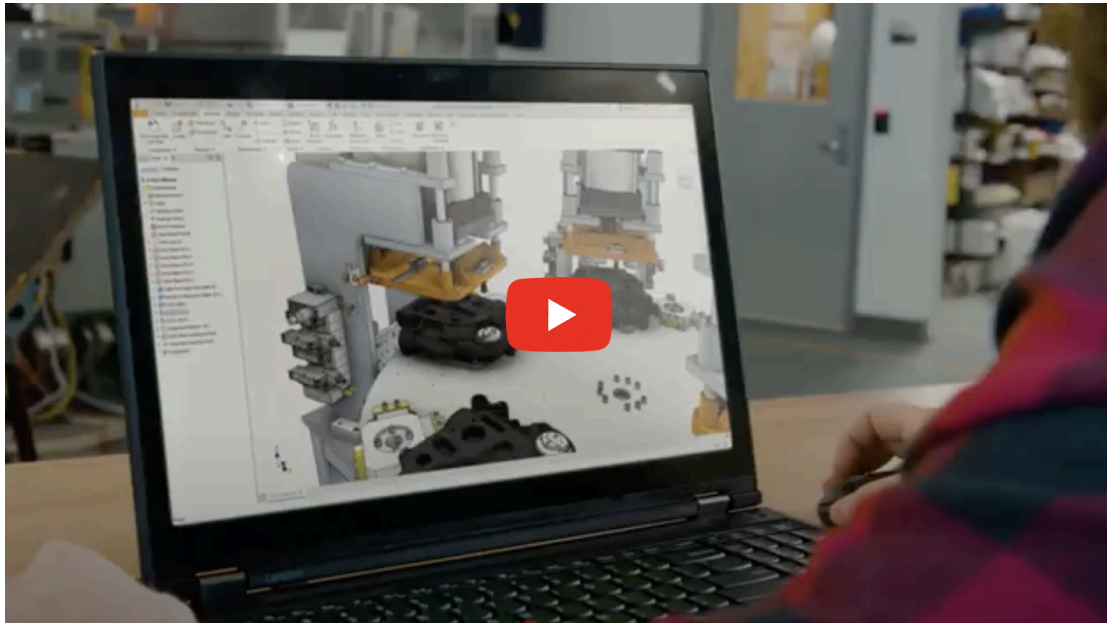


Design and Manufacturing

Getting started with the Product Design & Manufacturing Collection



Don't have your software? Get it here.

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TROUBLESHOOTING



In this post...

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[Unpack Autodesk Inventor](#)

[Work with AutoCAD](#)

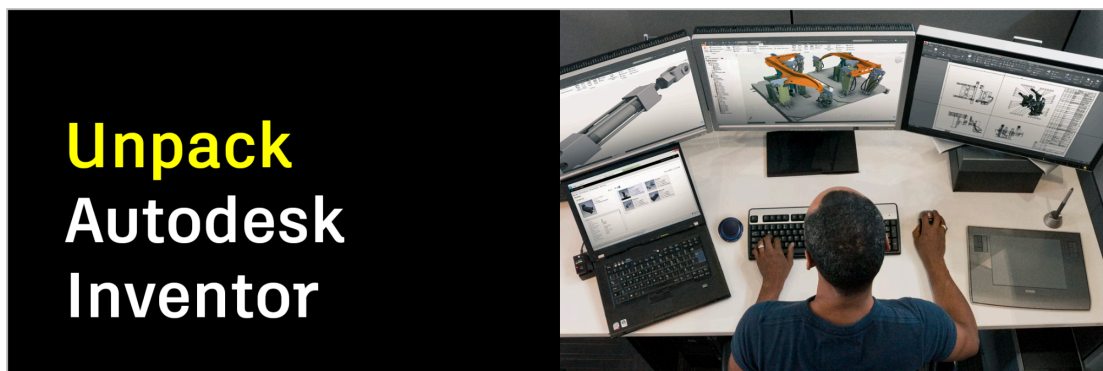
[Explore the future with Autodesk Fusion](#)

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Overview

The Autodesk Product Design & Manufacturing Collection gives you access to the tools you need to make almost anything you can imagine. With more efficiency. Tighter collaboration with your co-workers. And faster innovation to move beyond the ordinary and into the extraordinary.

This post will get you started quickly with the basics. However, you can always go further and explore more detailed posts about [design fundamentals](#), [advanced design & simulation](#), [advanced manufacturing](#), [factory layout](#), and [visualization](#).



3D modeling software for designers and engineers

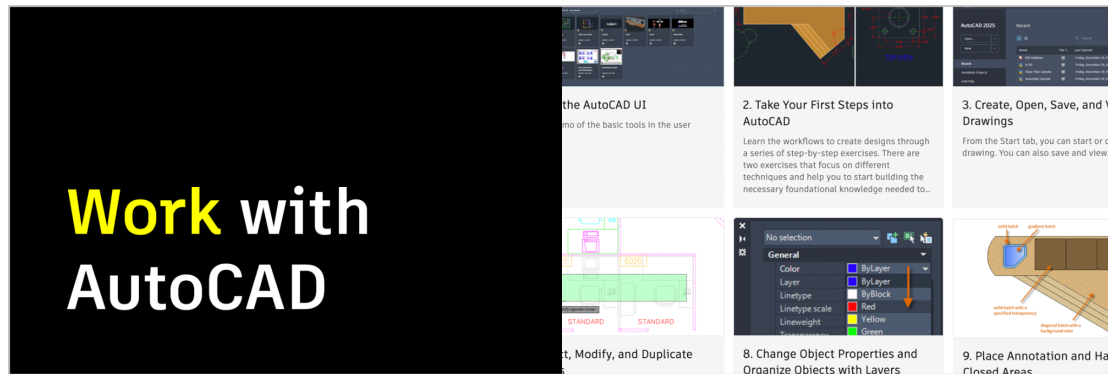
Autodesk Inventor is a 3D CAD software. That means, the models you create in it are 3-dimensional right from the start. But that's just the beginning. Because Inventor also includes mechanical design, documentation, and simulation tools. Check out Inventor Learning to go deeper into:

- The various types of 3D design capabilities, including parametric, direct, freeform, and rules-based
- Integrated tools for machine design, sheet metal, frame design, tube and pipe, cable and harness, and more
- Model-based definition, for embedding manufacturing information directly in your 3D model

You can also explore more extended Inventor capabilities, including:

- [Tolerance analysis](#)
- [Factory design utilities](#)
- [Advanced simulation \(FEA\)](#)
- [Computer-aided machining \(CAM\)](#)
- [Nesting](#)

[Visit the Inventor Learning Center now](#)



2D design and drafting software trusted by millions

AutoCAD is multi-purpose 2D/3D design software that you can use for precise drafting and professional results. Visit [AutoCAD Learning](#) for foundational modules about:

- Designing and annotating 2D geometry and 3D models with solids, surfaces, and mesh objects
- Automating drafting tasks to place objects with AI, compare drawings, create schedules, publish layouts, and more
- Maximizing productivity with customized workspaces, AutoLISP, APIs, and apps

[Visit the AutoCAD Learning Center now](#)

Explore Autodesk Fusion



Transform your team's development process

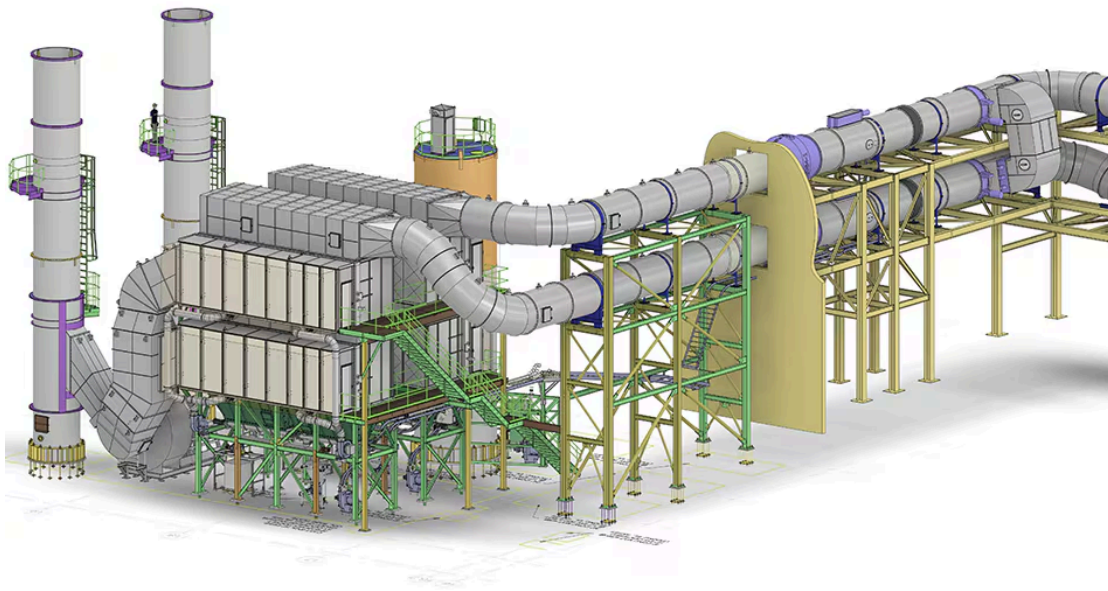
Autodesk Fusion delivers the future of design and manufacturing into your hands today, with integrated design, manufacturing, electronics, and data management. Visit [Fusion Learning](#) for fundamental and advanced modules on:

- The basics of navigating the user interface, setting preferences, importing designs, creating sketches, 3D models, configurations, and more.
- Moving into the manufacturing workspace to explore milling, turning, toolpath creation, multi-axis machining, and inspection.
- Expanded capabilities like additive manufacturing, generative design, simulation, and advanced manufacturing capabilities with Fusion extensions.

[Visit the Fusion Learning Center now](#)

“At GARANT-Filter, we always use the latest technologies. When it comes to CAD, we rely on Autodesk Inventor in the collection. With this tool, we are super fast and can deliver a 3D layout to our customers within hours.”

– Frederik Mussler, Process Engineer and
Executive Assistant to the CEO, GARANT-Filter



Uncover other powerful tools

The Product Design & Manufacturing Collection also includes a range of powerful tools that can help you realize your most ambitious vision. From photo-realistic renderings to reality capture,

BIM integration to data management, you have it all, ready when you need it.

- [3ds Max](#): 3D modeling and animation software
 - [ReCap Pro](#): reality capture and 3D scanning software
 - [Informed Design](#): BIM integration software
 - [Vault](#): product data management (PDM) software
-

Resources

[On-demand e-learning resources](#)

[Community forums](#)[Design and Manufacturing Blog](#)