

# 10 reasons to try Fusion 360:

Autodesk reimagined 3D CAD/CAM from the ground up. Fusion 360 combines industrial and mechanical design, simulation, machining and collaboration in a single integrated platform.

## 1 A comprehensive product development tool

From concept through manufacturing, Autodesk® Fusion 360™ is a comprehensive product design tool. Start by rapidly iterating your design to arrive at the best design concept. Next, move into production engineering by easily utilizing your conceptual design. Finally, prepare your design for fabrication by utilizing integrated 2 and 3 axis CAM or using the 3D printing utility for additive manufacturing. All in a single platform.

## 2 Bring together design and engineering

End the data disconnect between design and production engineering departments. Do more with your design data by creating complex surfaces that can actually be machined and are digestible downstream in the engineering and manufacturing process.

## 3 Flexible modeling environment

You can choose how you design. Fusion 360 includes flexible real time direct modeling as well as feature based parametric modeling, you decide what environment makes sense at that phase of the product design process. Fusion 360 includes: polygonal Sub-D modeling, T-Splines modeling, NURBS surface modeling, Bezier curve surface modeling, CSG Primitives modeling.

## 4 File translation, import & export

Import and export design files with a comprehensive set of CAD data translators. Fusion 360 supports translation of over 50 different file types including .OBJ, .DXF, .DWG, .SLDPRT etc. make data from your current CAD package and use in Fusion 360, changes made in the native application are automatically shown in Fusion 360.

## 5 Generative Design and Advanced Simulation

Quickly generate high-performing design alternatives—many that you'd never think of on your own—from a single idea. With generative design, there is no single solution; instead, there are potentially thousands of great solutions. You choose the design that best fits your needs.

Analyze your design under different conditions using various materials, loads and constraints. Also, thermal, buckling and nonlinear stress studies can be performed

## 6 Integrated data management

Fusion 360 takes care of data management and version control so you don't have to. Fusion 360 will automatically create and manage versions allowing you to review or roll back to an earlier state with ease. Easily find components embedded in complex designs and simplify design re-use with the integrated search engine. All of this without expensive implementation and maintenance cost.

## 7 Collaboration is key

Work by yourself or with others from one central project dashboard. Maintain control of who has access to view, comment, and edit on projects. Make design reviews a snap with the ability to view project data through a web browser allowing collaborators to review in real time if they don't have Fusion 360. Access projects from your mobile device to view designs, review with your team and post comments.

## 8 Fabrication

Integrated CAM with 2.5 and 3-axis machining. Proven HSM kernel included to quickly generate toolpaths, reduce machine wear and create high quality parts. 3D printing utility to slice, build supports and generate toolpath for a variety of 3D printers

## 9 It works with your existing hardware

Install Fusion 360 on as many computers or devices as you want. Fusion 360 is natively written for both Mac and PC allowing you to use your preferred OS/PC or both at no additional cost.

## 10 3D rendering and visualization

Communicate design intent internally, to customers or create photo realistic marketing materials directly from your model. Fusion 360 takes the heavy lifting of rendering off your machine by pre-rendering your designs in the cloud, so they can be viewed on your A360 dashboard and shared any time. If you want more granular control of your rendering, you can dynamically adjust environments, depth of field, effects, ray tracing settings, and visual styles directly within Fusion 360 with simple drag-and-drop functionality, then rendering it locally.

Learn more about Fusion 360:  
[Fusion360.autodesk.com](https://Fusion360.autodesk.com)

