

Autodesk Product Design and Manufacturing collection

The Autodesk Product Design and Manufacturing collection is a suite of software tools for product design and manufacturing professionals. It includes industry-leading tools such as AutoCAD, Inventor, and Fusion 360 for creating detailed drawings, models, and simulations of products. Additionally, it includes tools for advanced manufacturing such as CAM software for CNC machining, and simulation tools for testing the performance of products in a virtual environment. The collection is designed to help professionals throughout the entire product development process, from initial concept design to final manufacturing.

Increase Productivity

One of the keyways the collection helps to increase productivity is by providing professionals with a single integrated platform that can be used to design, engineer, and manufacture products. This eliminates the need to switch between multiple software tools and reduces the time and effort needed to complete tasks.

Improve Competitiveness

One of the keyways the collection helps to improve competitiveness is by providing businesses with access to powerful and flexible design and manufacturing tools that can be used to create high-quality products with precision and accuracy. This can help businesses to produce products that are more competitive in terms of quality, performance, and cost.

Simulation tools

The collection includes simulation tools that can be used to test the performance of products under different loads and conditions. This can help to identify potential issues before they occur and optimize the performance of products. This can also help to reduce the number of prototypes needed and minimize the risk of errors. All these capabilities can be used together to create a more efficient and cost-effective product development process that can help businesses to produce high-quality products in a shorter time and at a lower cost.

Advanced Manufacturing Capabilities

The Autodesk Product Design and Manufacturing Collection includes advanced manufacturing capabilities that can be used to optimize the performance of products, reduce the number of prototypes needed, and minimize the risk of errors. These capabilities include:

CNC machining

The collection includes advanced CAM software that can be used to create detailed CNC toolpaths for milling, turning and other manufacturing processes. This allows users to create parts and components quickly and accurately from a wide range of materials with high precision and repeatability.

3D printing

The collection also includes support for 3D printing, which allows users to quickly create physical prototypes and test their designs before committing to the final manufacturing process. This can help to speed up the product development process and reduce the number of prototypes needed



AUTODESK Product Design & Manufacturing Collection

What's Included in the Collection



Inventor

Professional-grade 3D Mechanical design, documentation, and product simulation tools



AutoCAD

Draft and edit 2D geometry. One AutoCAD (Mechanical, Electrical, Plant 3D, Raster Design)



Fusion 360

Connect your entire product development process in a single cloud-based platform



Inventor Nastran

FEA tools for engineers and analysts including nonlinear, thermal, fatigue, and dynamic simulation capabilities



Inventor CAM

2.5-axis to 5-axis milling, turning, and mill-turn CAM that is integrated in Inventor



Inventor Nesting

CAD-embedded, true-shape nesting software that helps you optimize yield from flat raw material.



Tolerance Analysis

Optimize manufacturing tolerances based on cumulative dimensional variation



Recap Pro

Register, mark up, and measure reality capture data that is ready for further design in 2D and 3D applications



Factory Design

Plan and validate factory layouts in both 2D and 3D for efficient equipment placement to improve production performance.



Navisworks Manage

Holistically review integrated models with stakeholders for architecture, engineering, and construction.



3DS Max Design

3D modeling and rendering for photorealistic imagery and virtual reality experiences



Vault Basic

Organize design data, manage documentation, and track versions

Want to know more about Product Design and Manufacturing Collection?

Give us a call at +91 89273 12727 to know more.