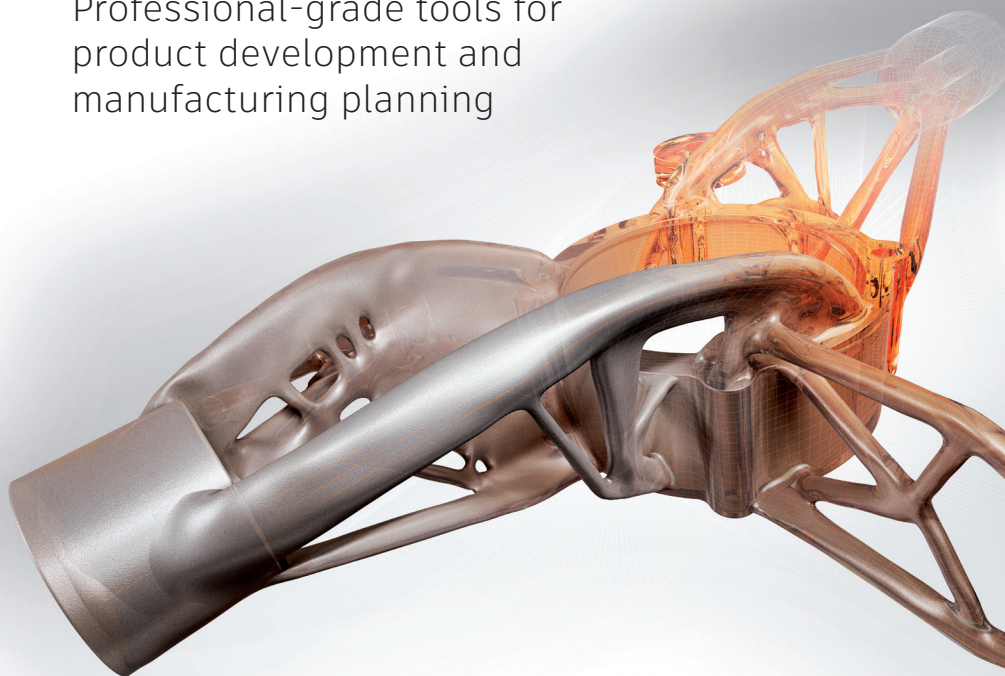




AUTODESK® **PRODUCT  
DESIGN & MANUFACTURING  
COLLECTION**

# THE FUTURE OF DESIGN

Professional-grade tools for  
product development and  
manufacturing planning



THE FUTURE  
OF DESIGN

# PRODUCT DESIGN & MANUFACTURING OF THE FUTURE

Autodesk® Product Design & Manufacturing Collection is a set of integrated 2D & 3D CAD, CAE and CAM applications for product development and manufacturing planning.

## Everything you need

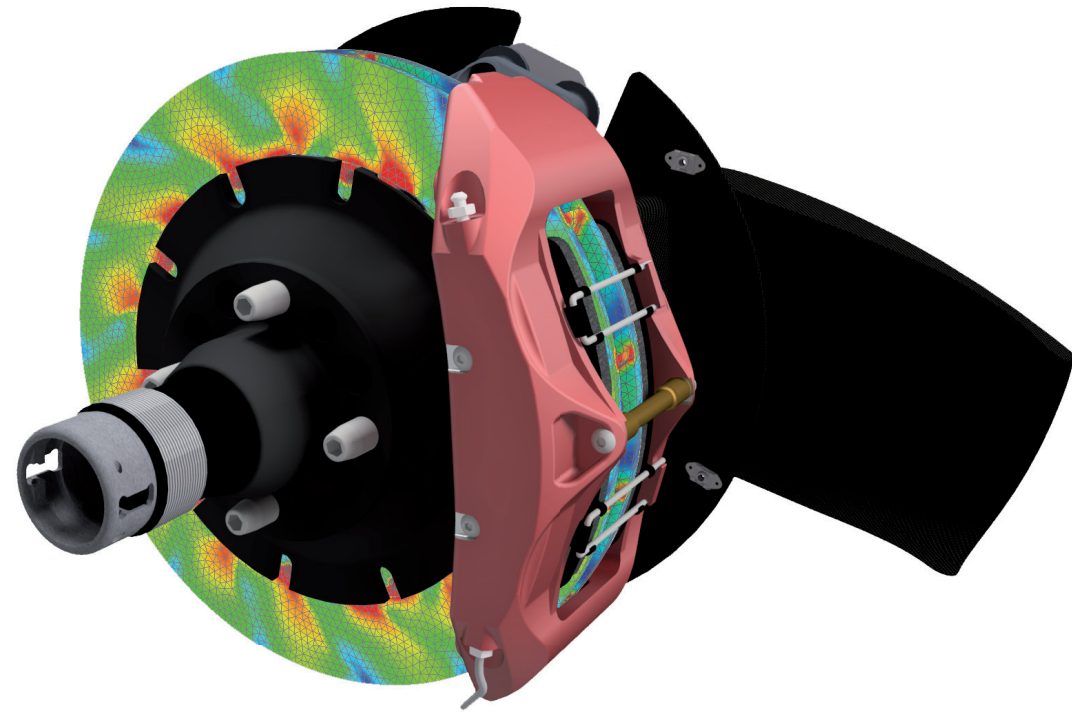
Run your entire product development process with an end-to-end solution that includes 2D & 3D design, advanced simulation, 2.5- to 5 axis CAM, factory layout, and more.

## The power of workflows

Center all your work around your Inventor® data with integrated CAD, CAE, and CAM. Connect seamlessly with specialized applications to create a complete product definition.

## Prepare for the future

Stay at the forefront of product development with access to the latest capabilities as soon as they're available, whether it's continual enhancements to the products you use today or incorporating new, cloud-based technologies like Fusion 360™ into your workflow.



## HERE'S WHAT THE COLLECTION CAN DO FOR YOU

### End-to-end product development

Provide your entire team all the professional-grad tools needed to design, test, manufacture, and manage your product.

### Collaborative and innovative design

Use a common data format across multiple engineering disciplines. End wrestling with file conversion and mismanaged data.

### Improve product performance

Make better, faster decisions with advanced simulation tools that are integrated directly into design environment.

### Design to manufacturing workflow

Quickly program parts for a variety of machining processes, and instantly update toolpaths whenever the design is updated.

# THE FUTURE OF DESIGN



## AUTODESK® PRODUCT DESIGN & MANUFACTURING COLLECTION

Modern engineering with  
integrated simulation

**Autodesk® Product Design & Manufacturing Collection**  
delivers Autodesk's best Inventor® experience with  
in-canvas workflows for design, advanced simulation,  
5-axis CAM, and factory planning.

### More value, more flexibility, more simplicity

**Access essential 3D design and  
manufacturing software for the work  
you do**

Get the tools you need now and in  
the future, as the collection and your  
business evolves.

**Choose the individual products that  
you want to use**

Download and install what you want,  
whenever you like – whether it's for  
occasional use, to meet requirements  
of a particular project or client, or to  
explore new workflows.

**Get on the path to the Future of  
Making Things with Fusion 360**

Fusion 360, our cloud-based product  
innovation platform, is included in your  
collection.

**Get access to the specific AutoCAD  
software designed for your work**

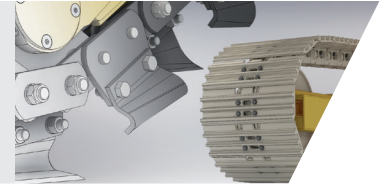
Increase productivity using the  
AutoCAD intended for your work,  
such as AutoCAD Electrical or AutoCAD  
Mechanical.

## Software included in the collection

### **Inventor Professional**

3D CAD software

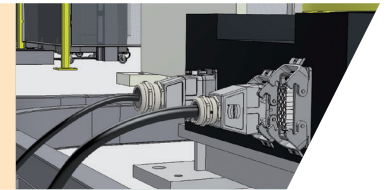
Mechanical design and 3D CAD software.



### **AutoCAD**

CAD Software

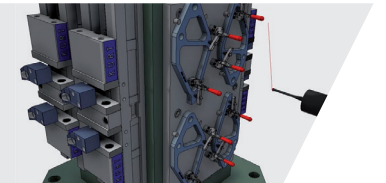
2D and 3D CAD is engineered for the future.



### **Inventor HSM**

Fully integrated CAM solution for Inventor

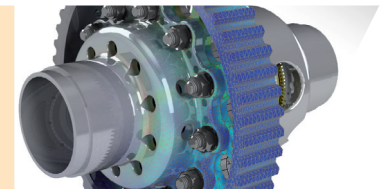
Provides high-speed machining functions in  
a fully integrated solution inside Inventor.



### **Autodesk Nastran In-CAD**

CAD-embedded FEA software

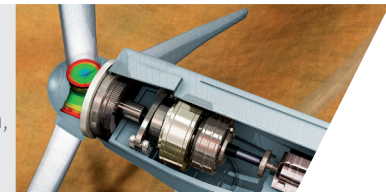
Access finite element analysis (FEA) tools  
for engineers and analysts.



### **Vault Basic**

Product data management software

Organize design data, manage documentation,  
and track revisions.



**See more products in the collection.**



### **Cloud Storage included service in the collection**

Upload and access large files of any type-anytime, anywhere.



3D CAD software for product development

**Autodesk® Inventor® 2019 improves design workflows with increased performance, better collaboration, and new professional-grade design tools.**

## Inventor Features

### Product design and modeling

- Shape Generator
- Parametric modeling
- Assembly modeling
- Drawing creation

### Modeling

- Flexible modeling
- Direct modeling
- Freeform modeling
- Mechanical concept and layout design

### Collaboration and design automation

- 3D PDF export
- Work with non-native data
- Automated frame design
- Electromechanical design

### Automation

- Automated product configuration
- Part and assembly design automation
- Automated tube and pipe design
- Component generators and calculators

### Interoperability

- Cloud-based 3D design reviews
- Printed circuit board interoperability
- BIM interoperability
- Data management

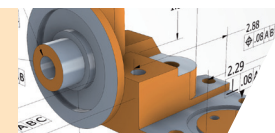
### Simulation and visualization

- Exploded views and animations
- Dynamic simulation
- Stress analysis
- Visualization and rendering

## What's new in Inventor 2019?

### Hole Command

Get a streamlined, personalized workflow with fewer clicks, increasing speed and productivity.



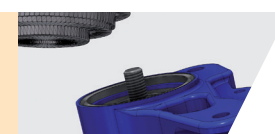
### iLogic enhancements

New iLogic assembly functions make it easier for your engineering team to configure customizable products.



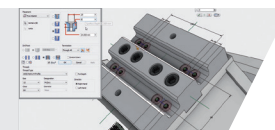
### Shared view collaboration

Collaborate on your models or designs online. Anyone can review and comment on shared views in the Autodesk viewer.



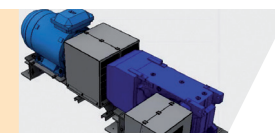
### Performance improvements

Do more in less time with performance improvements in part modeling, assembly work, and drawing documentation.



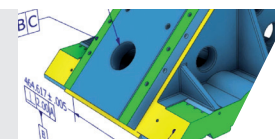
### Sheet metal for manufacturing

Prepare designs for manufacturing with additional corner relief options that are more suitable for laser-cut parts.



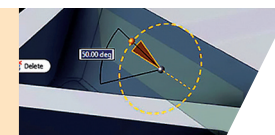
### Model-based definition enhancements

Enable face status coloring for visual feedback as you fully constrain your model. Get improved 3D annotation callouts for hole quantity.



### Improved part modeling workflows

With 3D part modeling and sketching enhancements, save time by creating an inverted fillet instead of an extrude or sweep feature.



### Assembly improvements

Explore customer-requested improvements to assemblies for constraints, tube and pipe, and frame generator.





## THE FUTURE OF DESIGN

### GET IT NOW

Download a free 30-day trial and try out apps and cloud services.

Purchase options include flexible subscription terms to fit your needs.

#### Included Software

##### Product Design & Manufacturing Collection

[www.autodesk.com/collections/product-design-manufacturing/included-software](http://www.autodesk.com/collections/product-design-manufacturing/included-software)

#### Inventor Free Trial

[www.autodesk.com/products/inventor/free-trial](http://www.autodesk.com/products/inventor/free-trial)

#### Learn more about

##### Product Design & Manufacturing Collection

[www.autodesk.com/collections/product-design-manufacturing/overview](http://www.autodesk.com/collections/product-design-manufacturing/overview)

#### Learn more about Inventor

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

Autodesk, the Autodesk logo, Inventor, Inventor HSM, Nastran, Vault, and AutoCAD are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document. © 2018 Autodesk, Inc. All rights reserved.