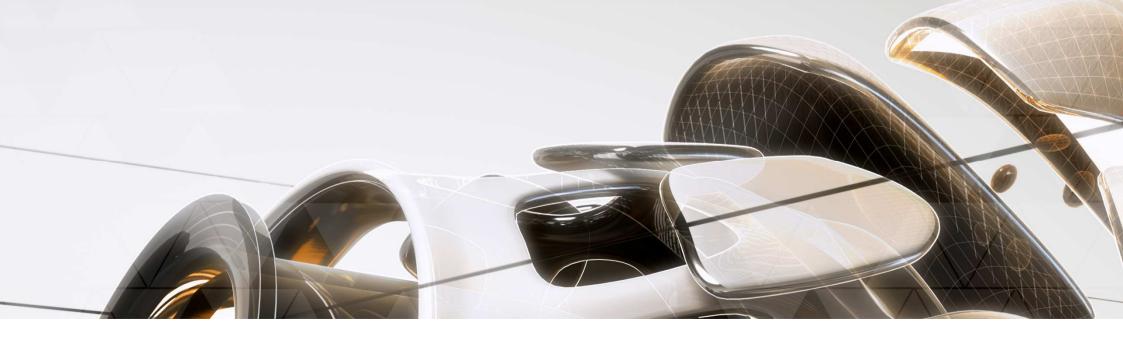






What's New in Autodesk Inventor 2019



Welcome & Agenda

- Inventor 2019
- Professional Grade
- Connected
- Inventor Experience
- Accessing the update
- ► Q&A



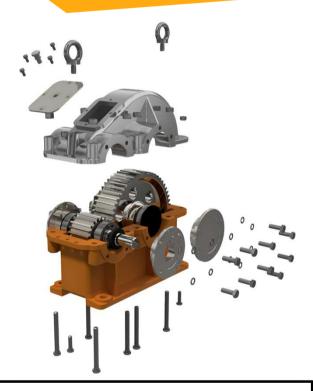


Autodesk Inventor 2019

Inventor 2019 is built for today's engineering and design professional.

Inventor customers from around the world continue to provide feedback and drive enhancements to the Inventor 2019 experience. This release marks a continued focus on improved performance, automation, and core modeling workflows that enable professional-grade mechanical engineering design. Inventor 2019 also connects to the Autodesk cloud to unlock collaboration, design, and supply chain user workflows.

Inventor 2019



PROFESSIONAL GRADE

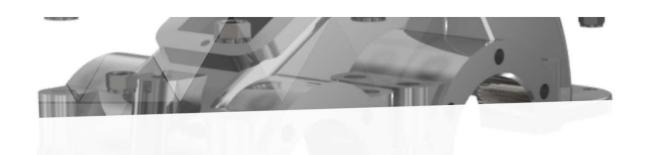


CONNECTED

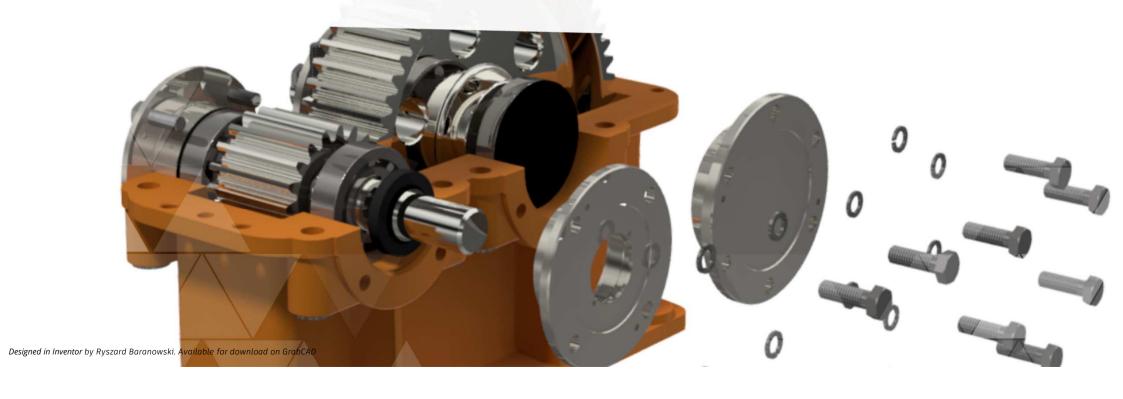


INVENTOR EXPERIENCE



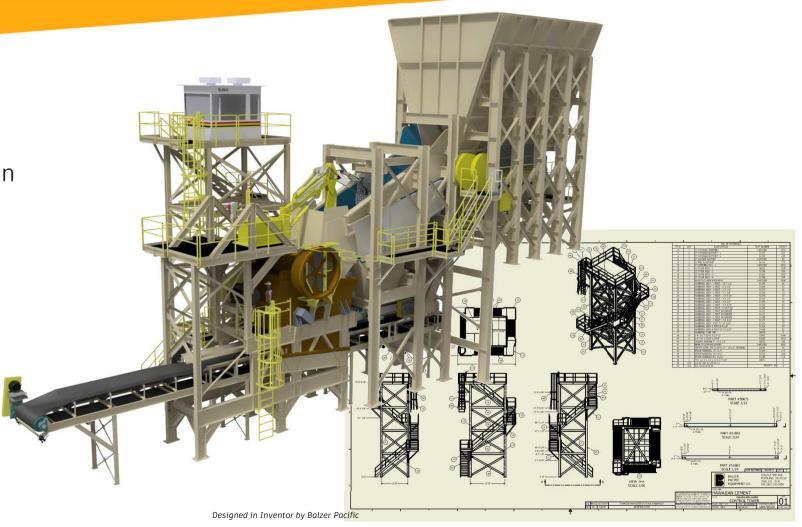


Professional Grade



Performance

- Assemblies
 - Editing
 - Updates
 - Pattern Selection
- Drawings
 - View Creation
 - Updates
 - Navigation

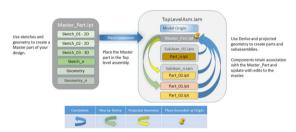


AUTODESK.

Help Content

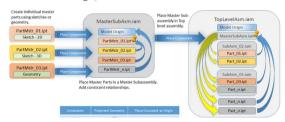
- Help Content:
- Large Assembly Best Practice
- Large Assembly Modeling Workflows

Skeletal Modeling: Single-Part



The Single-Level Process uses a single master part containing sketches and geometry that represents the final design. The Master part is Master part. Downstream, modifications to the Master part drive changes in the components associated to the Master part.

Skeletal Modeling: Multi-Part





- + Materials and Annearances + AutoCAD to Inventor Transition
- + Part Modeling Overview
- + Editing Part Bodies and Faces
- + About Freeform Part Modeling
- + About 3D Annotation and Model-Based
- + About Shape Generator
- + About Part Sketching
- + About Part View Representations
- + About Part Analysis
- ◆ Ahout Sheet Metal Parts
- + Assembly Modeling Fundamentals
- + Physical Properties in Assemblies
- Large Assembly Best Practices

What are large assemblies?

Common Practices that may Impact Large Assembly Performance About Project Planning and File

Visualization Effects and Graphic

Large Assembly Best Practices

Learn how to optimize performance, streamline your design techniques, plan your design approach, and solve issues that arise as your design progresses.

As product designs become larger and more complex, they consume more computing resources. Several tools and techniques are available to improve the following consequences of working with large data sets

- · Longer than expected load times.
- Poor graphics performance.



Topics in this section

- What are large assemblies?
- Common Practices that may Impact Large Assembly Performance Learn about common practices that can impact large assembly performance.
- About Project Planning and File Management Learn about project planning, folder structures, project files and libraries as they relate to large assembly modeling.
- Preferences and Settings
- Learn which settings can be optimized for large assembly performance.
- Visualization Effects and Graphics

Inventor offers simple, easy to use visualization effects to enable realistic looking models in the viewport.

Typically, an assembly opens fully (Load Full), that is, all component data is loaded into memory. For large assemblies, Inventor provides an Express mode (Load Express) where the model opens much faster by loading only component cached graphics into memory.

- Use Assembly Selection Filters to Improve Performance
- Large Assembly Modeling Workflows

The various techniques and approaches that are available to model parts and create assemblies can affect performance. Your modeling approach determines the number of occurrences, complexity of geometry, constraint methods, and assembly creation.

· System Hardware and Large Assemblies

Learn about the influence of system hardware, operating system, and network on large assembly performance.

• To Increase Capacity of System Memory

Parent topic: Assembly Modeling Overview

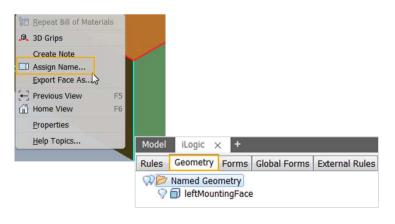
Performance

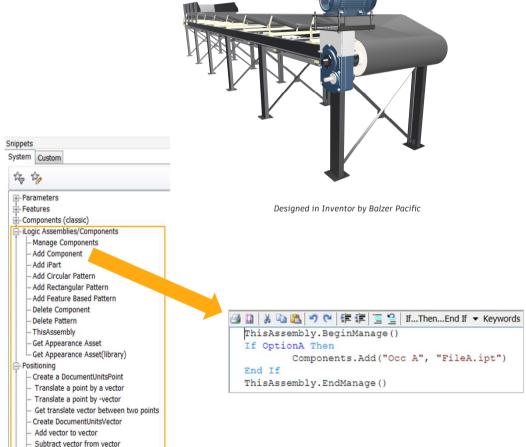
- General
 - Display of Threads
 - Mouse Wheel Zoom
- Content Center
 - In-Memory Caching



iLogic

- Component and Management
 - Add/Delete Parts
 - Add/ Delete Assemblies
 - Add/Delete Constraints
- Capture Current model state
- Assign Geometry Names

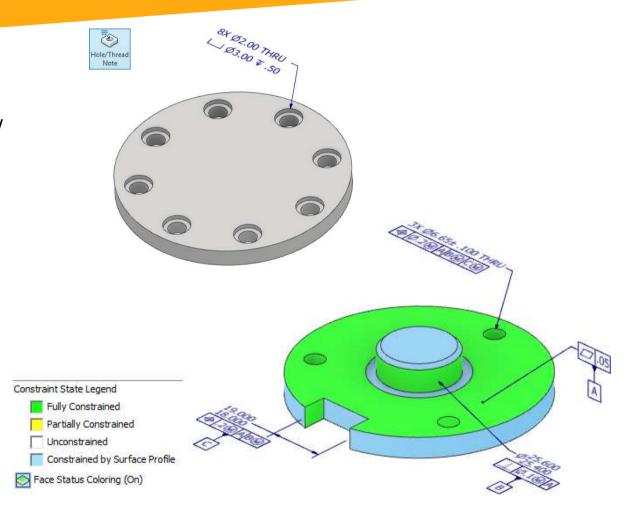


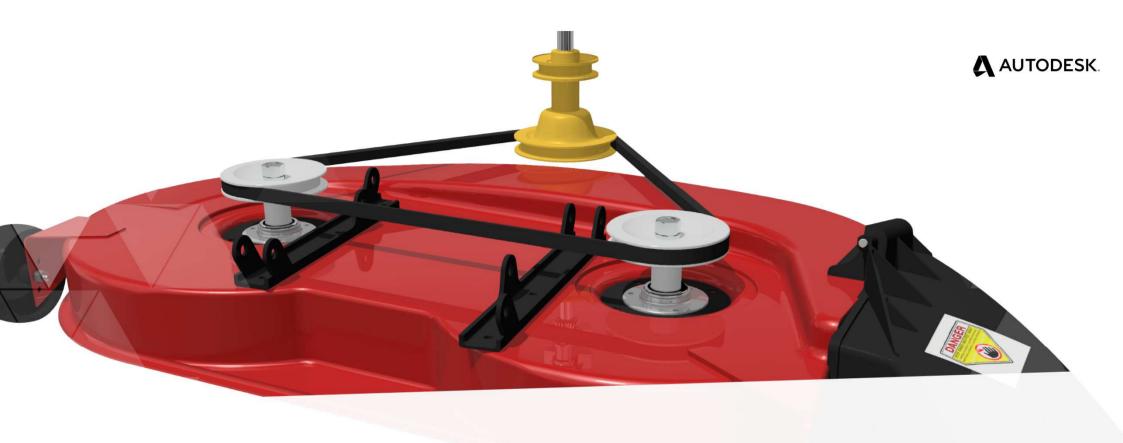


Create DocumentUnitsMatrix

Model Based Definition

- Tolerance Advisor Face Status
- 3D Annotation Hole/Thread Quantity





Connected

AUTODESK

Shared Views

Create

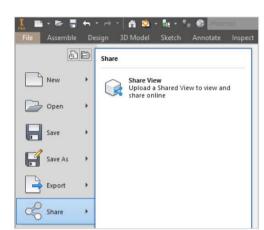
- Curate and share viewable to Autodesk Viewer
- Unique URL with 30-day expiration

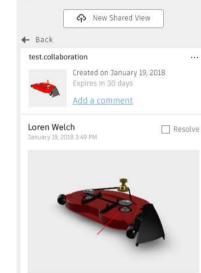
Share

- View/Comment/Markup in Autodesk Viewer
- Activity feed in-product panel

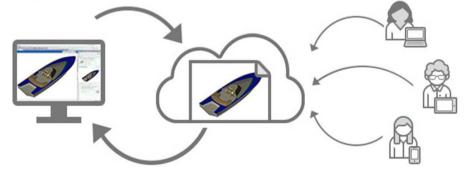
Same experience across Autodesk Products

AutoCAD, Vault, Inventor, Civil 3D, Alias, Plant3D, DelCAM, Moldflow, 3ds Max and Infraworks product lines





Owners upload a visual representation of a design to share online



Owners manage shared views and respond to comments from within the product

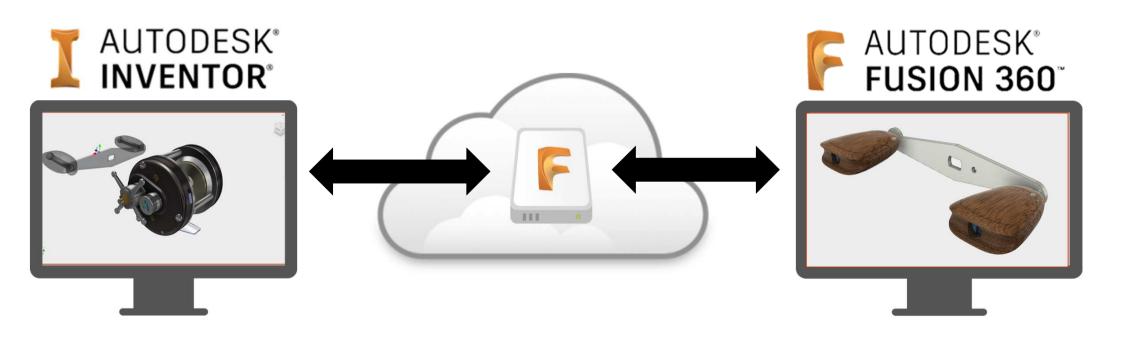
Collaborators view and post comments from desktop or mobile

Autodesk Drive

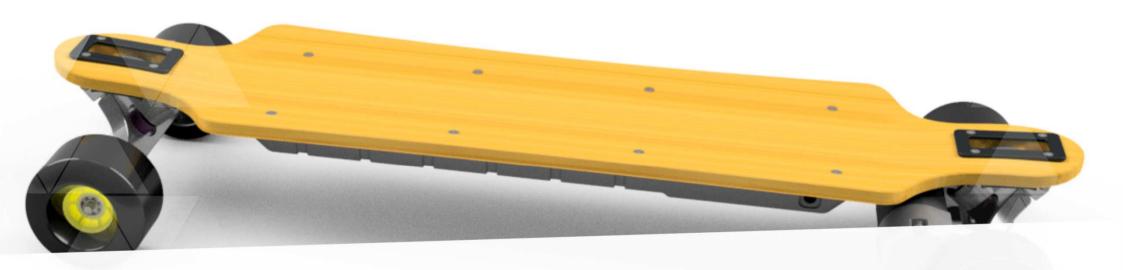
- CAD-aware cloud storage for individuals and small teams
- Supports over 60 types of Autodesk and 3rd party files
- View and organize files stored in Autodesk Drive from your desktop



Inventor and Fusion 360 AnyCAD



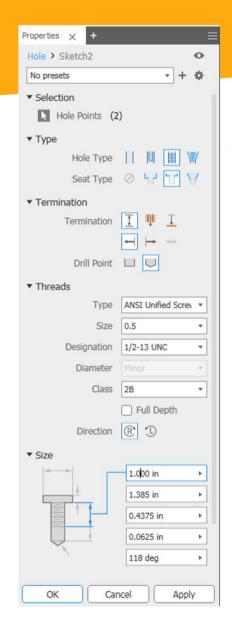


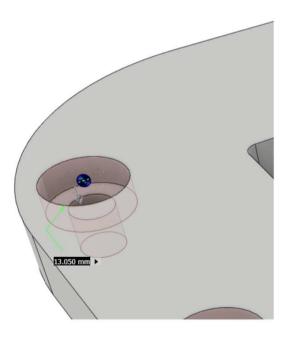


Inventor Experience

Hole Command

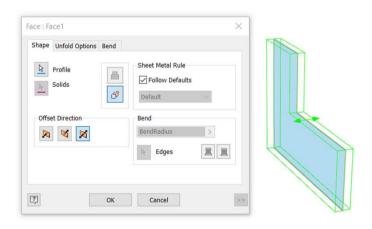
- Panel UX
- Presets for:
 - Hole Type Group
 - Termination
 - Threads/Fasteners
 - Size
 - Advanced Settings
- Create & Edit Sketch

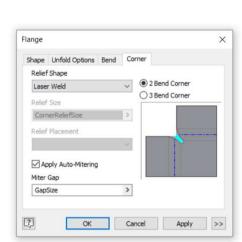


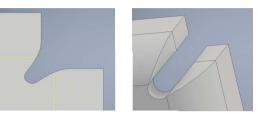


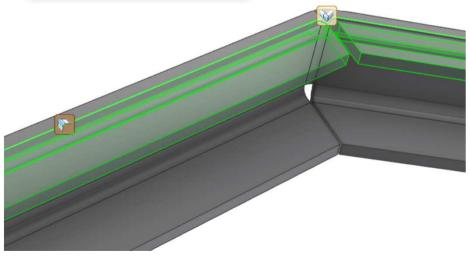
Sheet Metal

- Mid-Plane Face Extrude
- Corner Enhancements
- Laser Weld Relief Shape





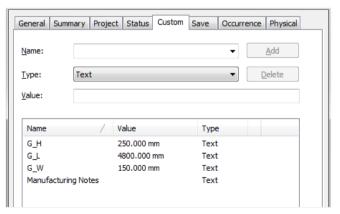




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Tube & Pipe and Frame Generator

- Tube & Pipe
 - Lock Hose Length
 - Performance
- Frame Generator
 - CUTDETAIL enhancement for members with multiple end treatments



Edit Hose Length

Actual Length

36.603 in

Rounded Length

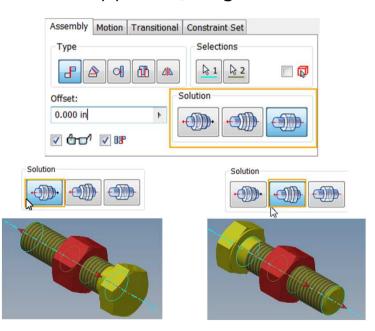
36.625 in

Cancel

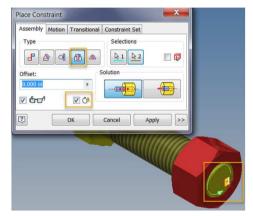


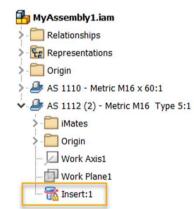
Inventor Ideas

- Display Extended Browser Information
- Assembly Constraints
 - Lock Rotation
 - Opposed, Aligned & Undirected



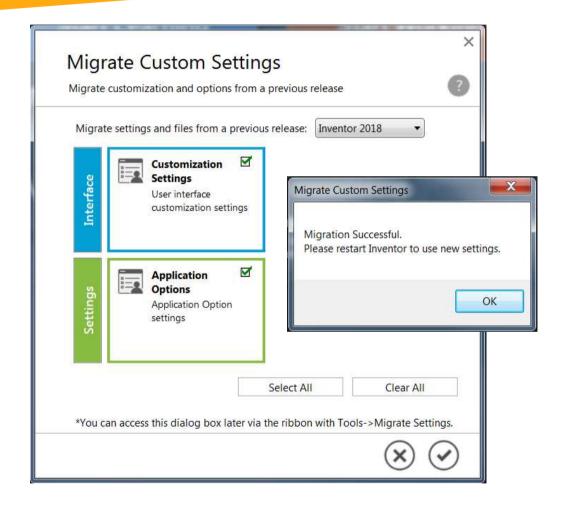






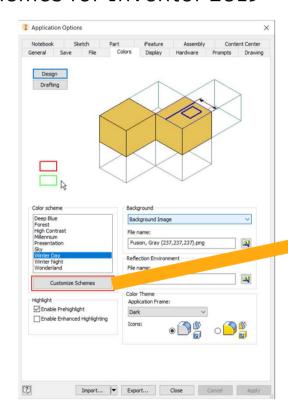
Migrate Custom Settings Tool

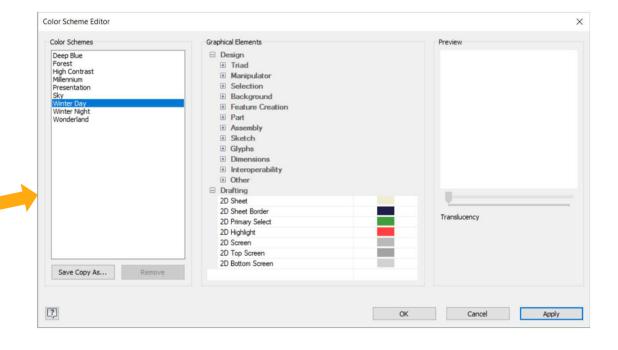
- Initiated on first run of Inventor 2019
- Execute on demand later
- Migrate Customization Settings
- Migrate Application Options



Color Schema Editor

Customize and save color schemes for Inventor 2019

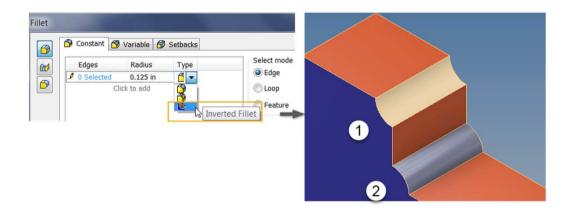


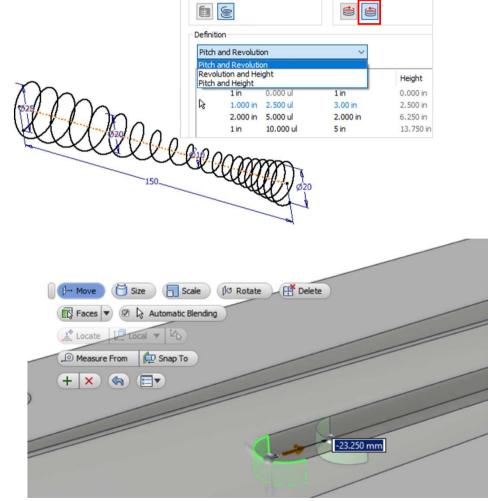


Rotation

Inventor Ideas

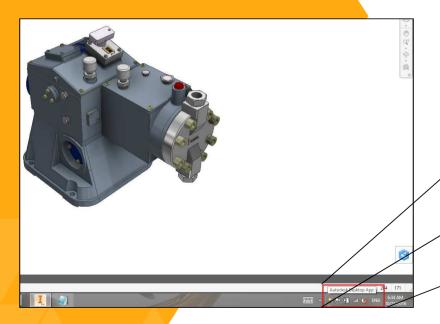
- Variable Radial/Helical Curve
- Inverted Fillet
- Automatic Blend for Direct Edit



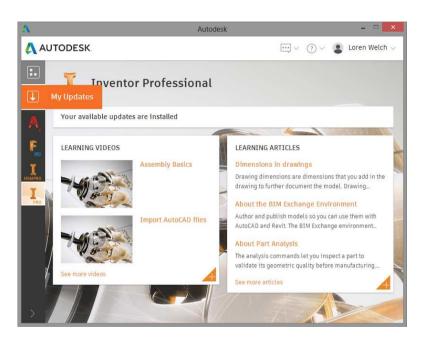


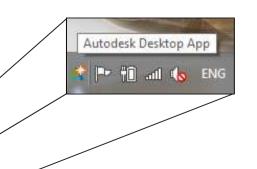
Inventor 2019 Accessing Update

- Autodesk Desktop App
- Autodesk Account









Make your voice heard

- Inventor Feedback Community https://autode.sk/InventorBeta
- Inventor Ideas Page https://autode.sk/InventorIdeas







Q\$A

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