

Improved efficiency and speed with familiar tools

Execute manufacturing changes efficiently and effectively

Autodesk Factory Design Suite enhances the power of Autodesk AutoCAD software with the benefits of Digital Prototyping—so you can spend less time drafting and more time optimizing and visually communicating factory layouts.

Manufacturing Drivers

- New Product Introduction
- Demand Changes
- Quality Initiatives
- Cost Reduction
- Sourcing

01

Process Modelling

02

Planning Layout

03

Detailed Design

04

Design Review

05

Communication

06

Data Management

Autodesk® Factory Design Suite is an interoperable 2D and 3D factory layout and optimization solution built specifically to help you design and communicate the most efficient layout by creating a digital model of your factory. It enhances Autodesk® AutoCAD® and Autodesk® Inventor® software with access to interoperable layout workflows and factory-specific content to help improve your design efficiency, accuracy, and communication.

Win more business

Factory Design Suite helps you quickly evaluate multiple what-if layout scenarios to determine the best solution before any equipment is installed. It provides factory-specific visualization tools to help impress potential clients with immersive layout proposals in 3D instead of multilayered 2D drawings that can be difficult to interpret.

Meet compressed project schedules

Complete layout projects on time and within budget with automated workflows and a factory-centric work environment in AutoCAD and Inventor. Move from 2D conceptual layout to manipulating a 3D factory model with a library of parametric factory content instead of sketching it all by hand. Factory Design Suite supports the DWG™ file format, so you can build on top of existing data to boost your efficiency.

Optimize your factory layout process

This factory-focused solution can help you create layout designs much faster than traditional layout workflows. Analyze existing 2D layouts for more efficient material flow, and transform layout liabilities into profit-generating assets. Incorporate point cloud scans to capture the as-built state of your factory, drastically reducing time spent on manual measurement.



Collaborate more effectively with suppliers and partners

Bring the factory to life and improve communication using immersive, high-quality 3D renderings and visualizations. Include models from suppliers in your layout regardless of CAD format, shrink-wrapping and stripping them of unwanted details. Reduce installation risks by analyzing the digital factory model for clashes and space constraints, before they become problems on-site.

Take advantage of cloud-based 3D asset publishing, sharing, and storage

With Autodesk® 360, Factory Design Suite users can manage their assets, collaborate, and share layout designs with various stakeholders online via the DWF™ file format. Both public and private sharing capabilities make it easy to collaborate internally or share with external stakeholders.

Autodesk Factory Design Suite offers:

- **2D and 3D visual layout environment**
Easily try what-if scenarios by dragging models of machine and facilities content on top of your 2D floor plan. With bidirectional associativity, 2D drawings and the 3D factory layout model automatically update whenever the layout design changes.
- **Large library of factory assets**
Access out-of-the-box 2D and 3D parametric factory content such as conveyors, material handling equipment, and facility equipment that can be resized and reused.
- **Factory asset builder**
Use Autodesk Inventor software to create 3D models of factory equipment, or easily import factory assets from suppliers to include in your layout.
- **Factory cloud-based services**
Publish, share, and manage assets with both public and private sharing capabilities that make it easy to collaborate internally or share with external stakeholders. Collaborate and share layout designs with various stakeholders in the DWF file format on mobile devices or online.
- **Factory design efficiency**
Improve your digital factory design tasks such as creation of plan views and section views of the layout, and save time on tape measurements by using laser scanning in your layout workflows.
- **3D factory visualization and analysis**
Collaborate better with immersive, high-quality renderings and visualizations, and reduce installation risks by exploring digital factory models with interactive 3D virtual walk-throughs and fly-throughs.
- **Manufacturing process and analysis**
Model, study, and optimize your manufacturing process with the web-based Autodesk® Process Analysis 360 product. Identify bottlenecks from planning through layout, to increase efficiency on your factory floor.

Learn how Autodesk Factory Design Suite can accelerate your factory layout process at www.autodesk.com/factorydesignsuite.

Build your digital factory

Only Autodesk Factory Design Suite adds factory-specific functionality to AutoCAD, Autodesk Inventor, and Autodesk® Navisworks® software products and combines them with powerful visualization tools such as Autodesk® 3ds Max® Design and Autodesk® Showcase® software to help manufacturers improve innovation, collaboration, and flexibility when responding to changing business requirements.

Autodesk Factory Design Suite Standard

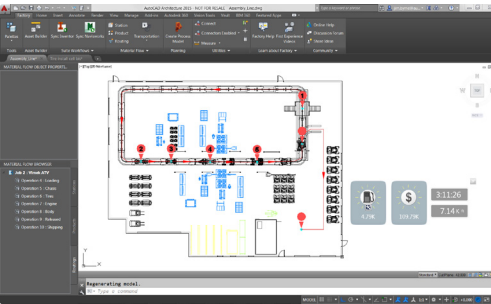
- Autodesk® AutoCAD® Architecture
- Autodesk® AutoCAD® Mechanical
- Autodesk® Vault Basic
- Autodesk® Showcase®
- Autodesk® Factory Design Suite Utilities
- Autodesk® AutoCAD® ReCap Studio
- Autodesk® AutoCAD® Raster Design

Autodesk Factory Design Suite adds the following factory-specific functionality in AutoCAD:

- Material flow analysis
- Large library of factory content
- Interoperable 2D-3D layout workflows with bidirectional associativity
- Parametric asset variants

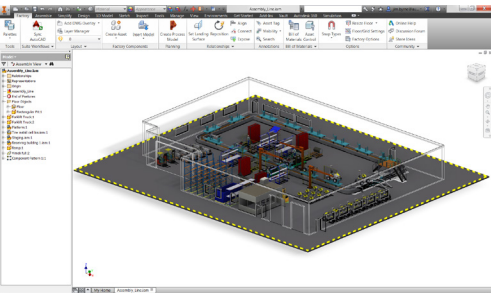
Autodesk Factory Design Suite adds the following factory-specific functionality in Inventor:

- Interoperable 2D-3D layout workflows with bidirectional associativity
- Ability to create accurate factory models with a predefined floor
- Ability to drag 3D models of factory assets onto your 2D floor plan
- Large library of 3D parametric factory content
- Ability to add smart connection points and landing surface definitions on the asset
- Automatic conversion of 2D drawings into 3D layouts



AutoCAD Architecture

Autodesk® AutoCAD® Architecture is AutoCAD software for architects, combining architectural drafting tools with a familiar AutoCAD software-based working environment to increase design productivity and improve collaboration.



Autodesk Inventor

Create accurate digital models of factory layouts and equipment with a factory-specific parametric work environment that helps you make better layout decisions before any equipment is installed.

Autodesk Factory Design Suite Premium

- Includes all of the products in the Standard edition, plus:
- Autodesk® 3ds Max® Design
 - Autodesk® Inventor®
 - Autodesk® Navisworks® Simulate

Autodesk Inventor Professional

Design, visualize, and simulate factory equipment under real-world conditions with advanced 3D mechanical design, product simulation, routed systems design, and tooling creation software.

AutoCAD Mechanical

Create and revise mechanical drawings quickly using all the functionality of AutoCAD software, plus a complete set of features designed to boost mechanical design productivity.

Autodesk 3ds Max Design

Demonstrate the operation of layout designs by creating photorealistic renderings and cinema-quality 3D animations with award-winning software.

Autodesk Showcase

Transform CAD data into compelling imagery, movies, and interactive presentations to improve the design review process, secure internal buy-in, and win competitive bids.



Autodesk Navisworks

With Autodesk Navisworks software products you can integrate 3D models and multiformat data, reduce construction risks, and validate design accuracy by detecting space constraints and equipment collisions early in the design process with project review software.

Autodesk Vault

Gain more control over your design data with software for managing the factory layout design creation, optimization, and documentation processes.

Autodesk Factory Design Suite Ultimate

- Includes all of the products in the Premium edition plus:
- Autodesk® AutoCAD® MEP
 - Autodesk® Inventor® Professional
 - Autodesk® Navisworks® Manage

Digital Prototyping for the manufacturing market

For more than 30 years, Autodesk, a leading supplier of engineering software, has been providing world class products to help companies manufacture their products. By placing powerful Digital Prototyping technology within the reach of mainstream manufacturers, Autodesk is changing the way manufacturers think about their design processes and is helping them create more productive workflows. The Autodesk approach to Digital Prototyping is unique in that it is scalable, attainable, and cost-effective, which allows a broader group of manufacturers to realize the benefits with minimal disruption to existing workflows, and provides a more straightforward path to creating and maintaining a single digital model in a multidisciplinary engineering environment.

Learn more or purchase

Access specialists worldwide who can provide product expertise, a deep understanding of your industry, and value that extends beyond your software. To license Autodesk Factory Design Suite software, contact an Autodesk Authorized Reseller. Locate a reseller near you at www.autodesk.com/reseller.

Autodesk Education

Autodesk offers students and educators a variety of resources to help ensure students are prepared for successful design careers, including access to free* software, curricula, training materials, and other resources. Anyone can get expert guidance at an Autodesk Authorized Training Center (ATC®) site, and validate skills with Autodesk Certification. Learn more at www.autodesk.com/education.

Autodesk Subscription

Subscribe to Autodesk Factory Design Suite. Autodesk® Maintenance Subscription gives you an advantage with powerful cloud services, upgrades to the latest software releases, online technical support, and flexible licensing privileges.** Learn more at www.autodesk.com/maintenance-subscription.

Autodesk 360

The Autodesk® 360 cloud-based framework provides tools and services to extend design beyond the desktop. Streamline your workflows, effectively collaborate, and quickly access and share your work anytime, from anywhere.*** Learn more at www.autodesk.com/autodesk360.

*Free products are subject to the terms and conditions of the end-user license agreement that accompanies download of this software.

**All Subscription benefits are not available for all products in all geographies. Please consult your Autodesk reseller or sales representative for more information.

*** Access to services requires an internet connection and is subject to any geographical restrictions set forth in the Terms of Service.

Autodesk, the Autodesk logo, AutoCAD, ATC, Autodesk Inventor, DWF, DWG, Inventor, Navisworks, Showcase, and 3ds Max 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 and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2015 Autodesk, Inc. All rights reserved.