

# Autodesk® Factory Design Suite

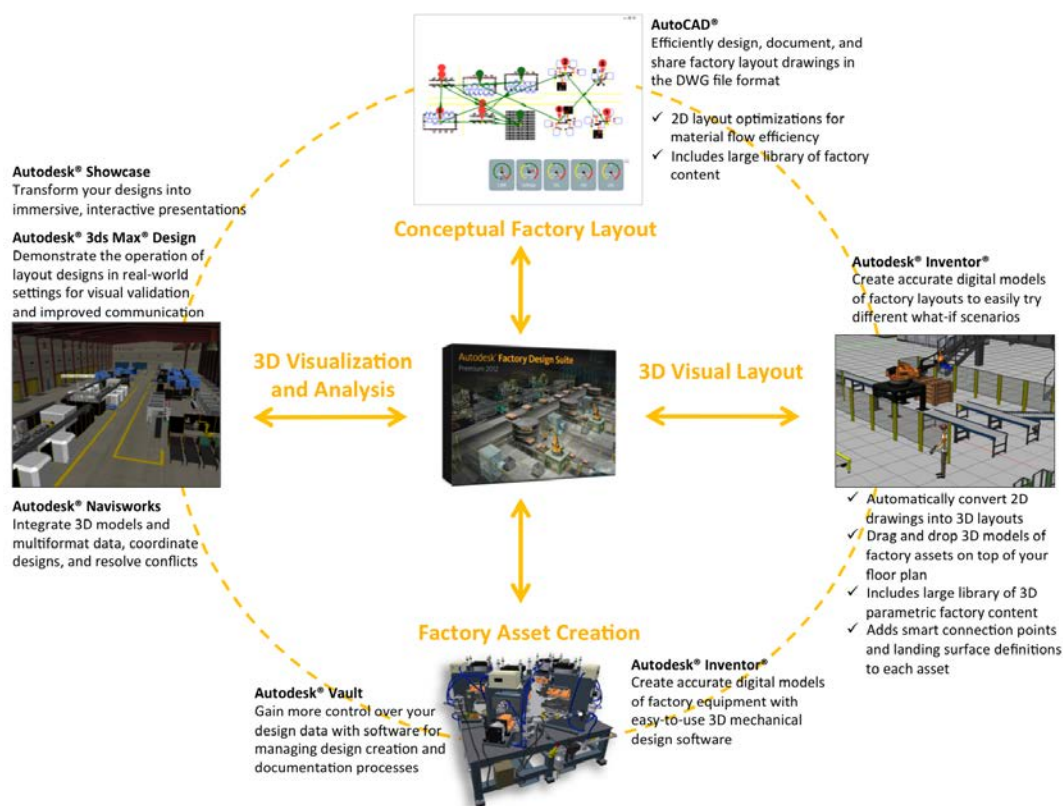
The flexibility to innovate,  
in one cost-effective package.

Rendering of factory interior  
with DWG™ underlay. Autodesk®  
Factory Design Suite and  
Autodesk® 3ds Max® Design  
software products were used in  
the design process.

Autodesk®

# Extend the Benefits of Digital Prototyping to the Factory Floor

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



Autodesk® Factory Design Suite is an integrated 2D and 3D factory layout and optimization solution that can help you create more efficient factory layouts by developing a digital model of your factory. The solution complements AutoCAD® and Autodesk® Inventor® software with workflows that enhance accuracy, design efficiency, and communication.

## Win More Business

Create factory layout models that help you quickly evaluate multiple what-if layout scenarios, so you can determine the best solution before any equipment is installed. Use factory-specific visualization tools to impress potential clients with immersive and interactive layout proposals in 3D rather than difficult-to-interpret multilayered 2D drawings.

## Optimize Your Factory Layout Process

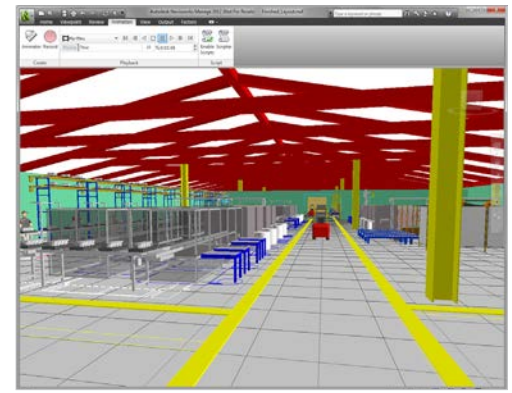
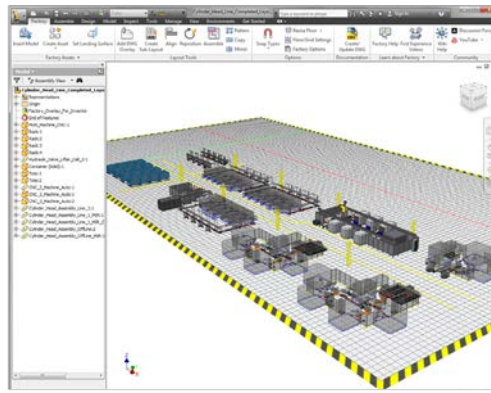
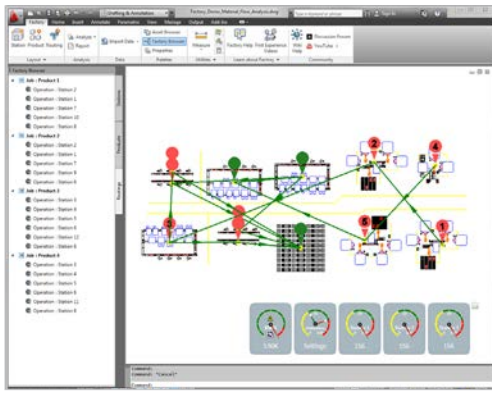
Use Factory Design Suite to create layout designs much faster than you could with traditional factory layout workflows. Analyze existing 2D layouts for more efficient material flow and transform layout liabilities into profit-generating assets. Incorporate Point Cloud scans to capture the as-built state of your factory, drastically reducing manual measurement. Perform engineering reviews and explore factory layouts with interactive 3D virtual walk-throughs. And because Factory Design Suite supports the DWG™ file format, you can continue to use valuable legacy data and improve your familiar AutoCAD workflow without making drastic workflow changes.

## Meet Tight Project Schedules

Work faster with automated workflows and a factory-centric work environment in both AutoCAD and Autodesk Inventor software. Automatically convert 2D drawings into 3D layout models. Then integrate reusable 3D machine and factory component models to find the most optimal layout solution.

## Collaborate More Effectively with Suppliers and Partners

Develop immersive, high-quality 3D animations and visualizations to improve communication. Include models from suppliers—regardless of CAD format—in your layout, 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 on-site problems.



### Autodesk Factory Design Suite offers:

- **2D and 3D visual layout environment.**  
Test what-if scenarios by dragging and dropping 3D models of machine and facilities content onto your 2D floor plan.
- **Large library of factory assets.**  
Access, resize, and reuse out-of-the-box 2D and 3D parametric factory content such as conveyors, material handling equipment, and facility equipment.
- **Factory asset builder.**  
Use Autodesk Inventor software to create 3D models of factory equipment, or to more easily import suppliers' factory assets into your layout.
- **Factory design efficiency.**  
Automate repetitive manual tasks, automatically convert 2D drawings into 3D layouts, and save time on measurements by using laser scanning.
- **3D factory visualization and analysis.**  
Collaborate better with immersive high-quality renderings and visualizations. Reduce installation risks by exploring digital factory models with interactive 3D virtual walk-throughs and fly-throughs.

Learn how Autodesk Factory Design Suite can accelerate your factory layout process at [www.autodesk.com/factorydesignsuite](http://www.autodesk.com/factorydesignsuite).

### Build Your Digital Factory

Autodesk Factory Design Suite adds factory-specific functionality to AutoCAD, Autodesk Inventor, and Autodesk® Navisworks® software. It combines this functionality with powerful visualization software—Autodesk® 3ds Max® Design and Autodesk® Showcase®—to help manufacturers improve innovation, collaboration, and flexibility as they respond to changing business requirements.

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

- Optimize 2D layout for material flow efficiency
- Access large library of factory content

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

- Convert 2D drawings into 3D layouts automatically, and build accurate factory models
- Drag and drop 3D models of factory assets on top of your 2D floor plan
- Access large library of 3D parametric factory content
- Add smart connection points and landing surface definitions on an asset

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

- Benefit from the introduction of factory floor concept
- Get associative updates with Autodesk Inventor
- Use factory-specific layout tools

### AutoCAD Architecture

AutoCAD® Architecture is AutoCAD software for architects that combines 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 in a factory-specific parametric work environment, so you can make better layout decisions before equipment is installed.

### Autodesk Inventor Professional

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

### AutoCAD Mechanical

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

### Autodesk 3ds Max Design

Use award-winning software to create near photorealistic renderings and cinema-quality 3D animations with the push of a button. Demonstrate the operation of layout designs in real-world settings to improve communication and accelerate your path to new business.

### 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. Realistic environments, lighting, and materials let stakeholders and prospects experience your ideas before they're real.

### Autodesk Navisworks

Use this project review software to 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.

### Autodesk Vault

Use Autodesk® Vault software to manage the process of designing, optimizing, and documenting factory layouts—and gain more control over your design data.

### Autodesk Factory Design Suite Standard

- AutoCAD® Architecture
- AutoCAD® Mechanical
- Autodesk® Vault
- Autodesk® Showcase®
- Autodesk® Factory Design Suite Utilities

### Autodesk Factory Design Suite Premium

- Autodesk® Inventor®
- Autodesk® Navisworks® Simulate
- Autodesk® 3ds Max® Design
- AutoCAD® Architecture
- AutoCAD® Mechanical
- Autodesk® Vault
- Autodesk® Showcase®
- Autodesk® Factory Design Suite Utilities

### Autodesk Factory Design Suite Ultimate

- Autodesk® Inventor® Professional
- Autodesk® Navisworks® Manage
- Autodesk® 3ds Max® Design
- AutoCAD® Architecture
- AutoCAD® Mechanical
- Autodesk® Vault
- Autodesk® Showcase®
- Autodesk® Factory Design Suite Utilities

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