3D for the mainstream.
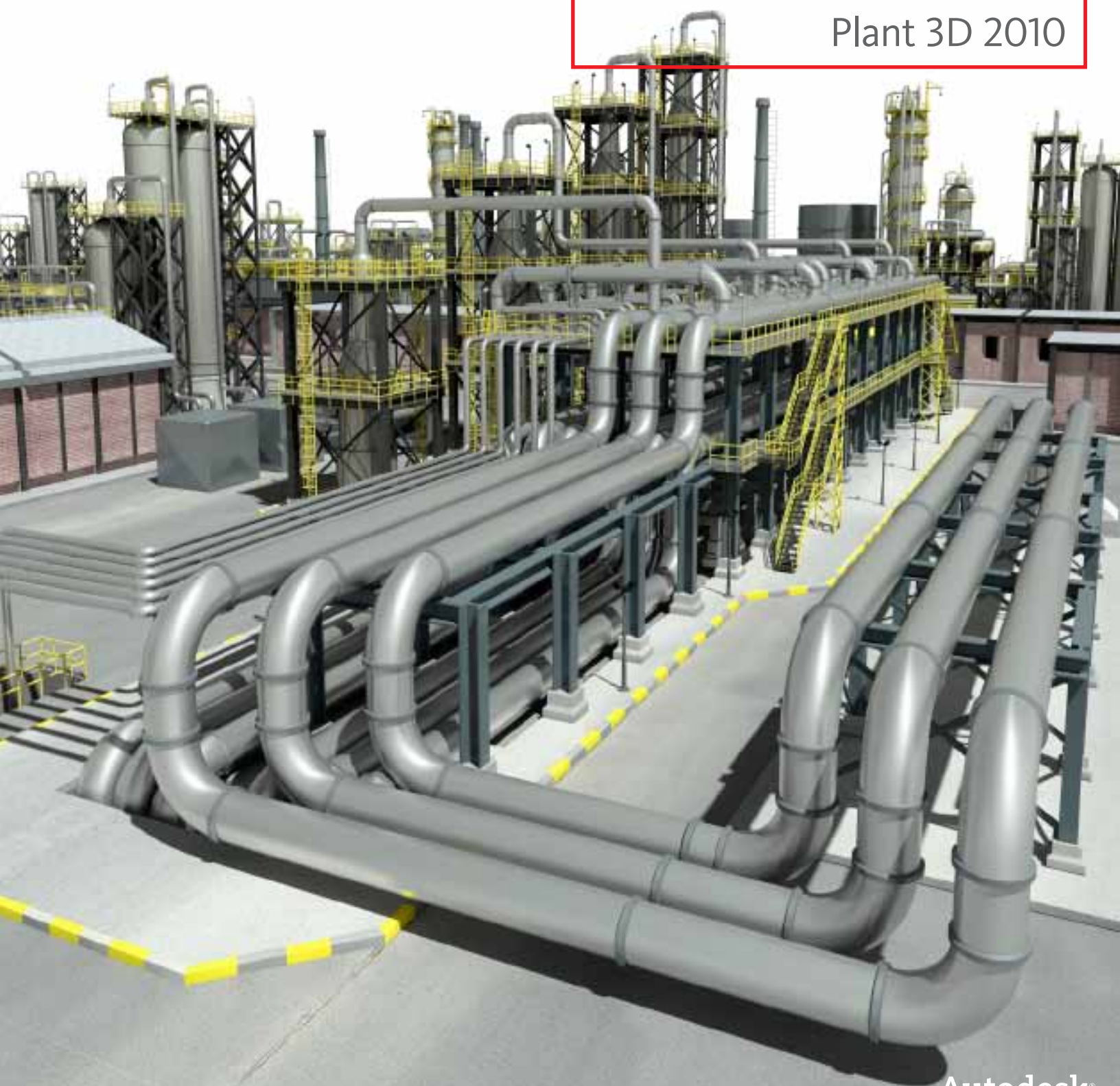
AutoCAD®

Plant 3D 2010

Autodesk®

A Better AutoCAD for Plant Design

Design, model, and document process plants with AutoCAD® Plant 3D 2010 software.

Maximize productivity, accuracy, and coordination

Designed specifically for process plant engineers and designers, AutoCAD® Plant 3D 2010 helps increase productivity, accuracy, and coordination to meet the challenges of your complex plant design projects.

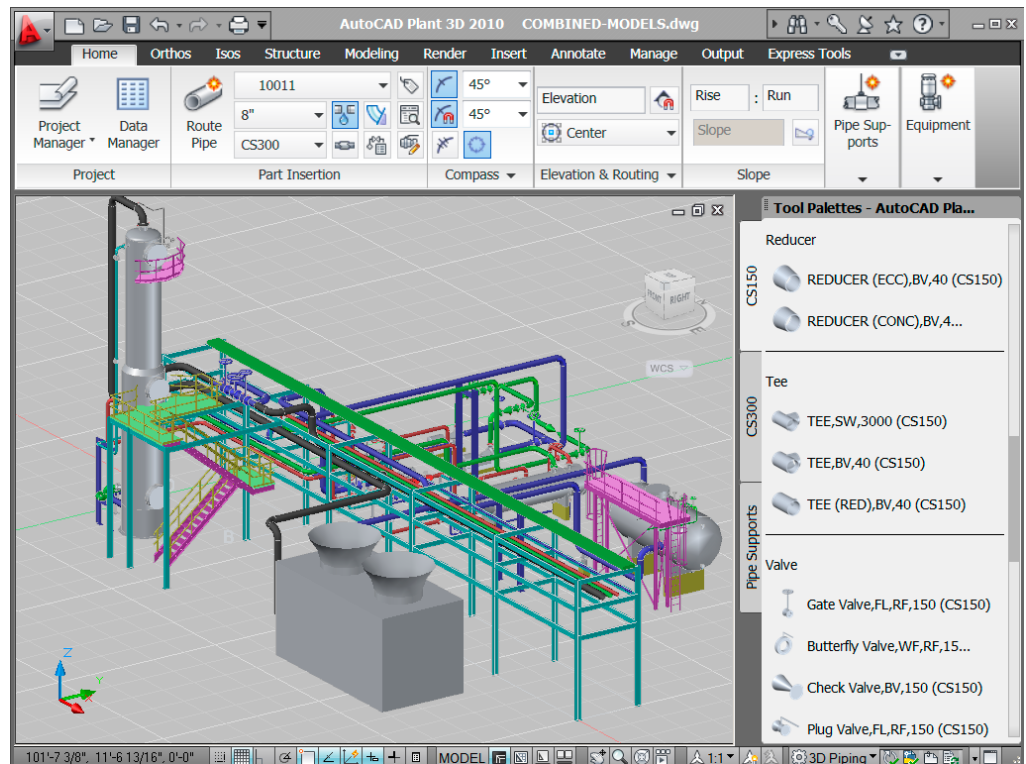**Increase design and engineering productivity**
Training and startup time is minimal because AutoCAD Plant 3D is built on the widely-used and latest AutoCAD platform. Costly server-based systems and database administration are not required. AutoCAD Plant 3D's specification-driven technology and modern interface simplifies modeling and editing of piping, equipment, support structures, and other plant components.

Ensure information accuracy and consistency
Within AutoCAD Plant 3D, underlying data is directly exchanged between the 3D model, P&IDs, isometrics, and orthographics to ensure information is consistent and up to date. Search and query for information and then easily review and edit the data in the drawings.

Improve project team coordination
Materials lists and reports are easy to generate and share with entire project teams. Portable AutoCAD Plant 3D .DWG files can be opened by other engineering disciplines with AutoCAD-based software. The data can be exported for integration into other applications like stress analysis or spool generation packages. For seamless design review, visualization, and clash detection, AutoCAD Plant 3D models are directly compatible with Autodesk Navisworks.
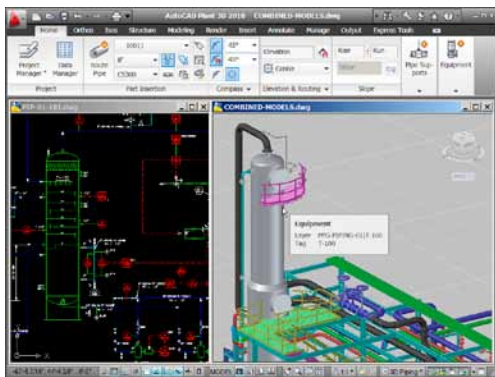

Workspace and User Interface
AutoCAD Plant 3D 2010 features a user-friendly interface, including a large drawing window, intuitive desktop organization capabilities, and quick access to the tools and commands you need, helping you to find your favorite tools faster, locate seldom-used tools more efficiently, and discover new features with ease.
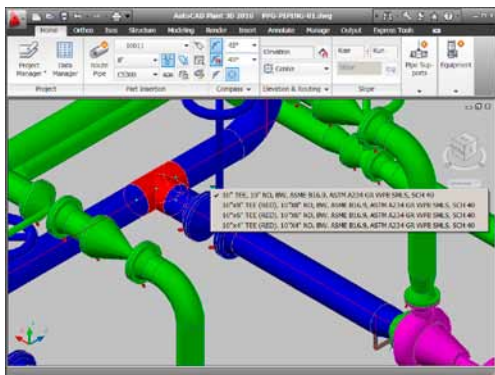
Project Setup
Use the project feature at the beginning of a project to quickly enter pertinent information such as project numbers and specs that will be used to drive creation of piping and components. You can also identify and add a variety of stock and custom components and specifications, which will eventually populate the tool palette when design begins. All this information can be updated as the project progresses and then used to generate reports.
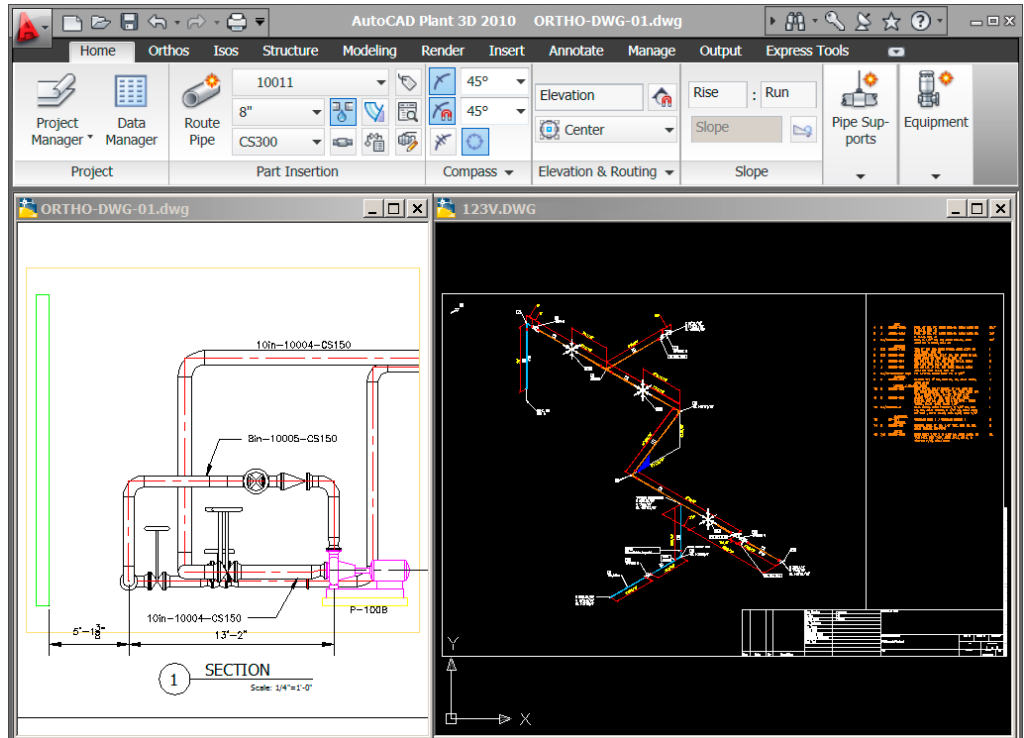
AutoCAD P&ID Integration

AutoCAD P&ID functionality is integrated directly into AutoCAD Plant 3D. Using these capabilities, you can create and edit piping and instrumentation diagrams, then reconcile the underlying data with the 3D model.

Specifications and Catalogs

AutoCAD Plant 3D helps streamline the placement of piping, equipment, support structures, and other plant components through spec-driven technology and standard parts catalogs like ANSI/ASME (B16) and DIN/ISO. When you need to create a spec, you can work directly with included content-rich catalogs, or you can modify the catalogs to meet your project's requirements.

Piping

From the initial spec through the final design, AutoCAD Plant 3D software optimizes the creation and editing of spec-driven pipelines. With this feature, you can route pipe, edit a line of pipe and its component elements, and manage a system of connections. You have the option to route pipe semi-automatically or manually. As you route pipe, additional components such as gaskets or flanges are added automatically.

Equipment Elements

This feature enables you to create, modify, manage, and use equipment in your drawings. A comprehensive library of standard equipment elements is available for use from within the tool palette. You can add custom content to your library as well.
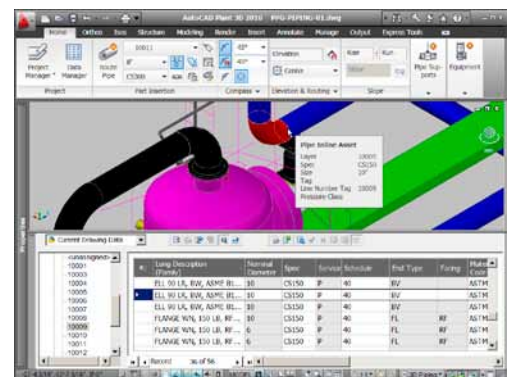
Structural Elements

Use this feature to identify issues such as interferences in your plant model. With it, you can parametrically create a small set of structural elements, including AISC steel members and structural trim, such as stairs and cage ladders. You can also externally reference structural drawings created in Autodesk® Revit® Structure software, AutoCAD® Structural Detailing software, and other applications.

Autodesk Navisworks Compatibility

AutoCAD Plant 3D models are directly compatible with the Autodesk® Navisworks® family of products for seamless design review, visualization, and clash detection.

Construction Document Generation

From the 3D model, you can easily generate and share isometrics, orthographics, and other construction documents. Information is directly exchanged with the 3D model, helping to ensure that your construction documents are accurate, consistent, and up to date.

Report, Search, and Query

Use these features to search for, query, and manipulate the data contained in drawings. Generate materials lists and create reports based on your particular search criteria. You can then export the information as piping component format (PCF) files for integration into other applications like stress analysis or spool generation packages.

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