

What is AutoCAD Plant 3D?

AutoCAD Plant 3D is specification-driven software for creating 3D models of process plant components. You can route pipe, add equipment and other components, and include support structures.

Within AutoCAD Plant 3D, underlying data is directly exchanged between the 3D model, P&IDs, isometrics, and orthographics to ensure that information is consistent and up-to-date.

Concepts & Terms

An overview

Project Manager	Central hub for all drawings, specs, and data; you always work within a project
Data Manager	Table containing all project or drawing data. You can manipulate this data directly
Part	Piping Component
Placeholder Part	A component that is temporarily used in the model until the part is added to the spec
Custom Part	A component that is not in a piping spec
Project.xml	The project file
*.dwg	A Plant 3D model or P&ID drawing
*.dat	Data cache files; e.g., piping.dat
*.pipe *.pipei	Spec file (pipe)
*.pcat	Catalog file

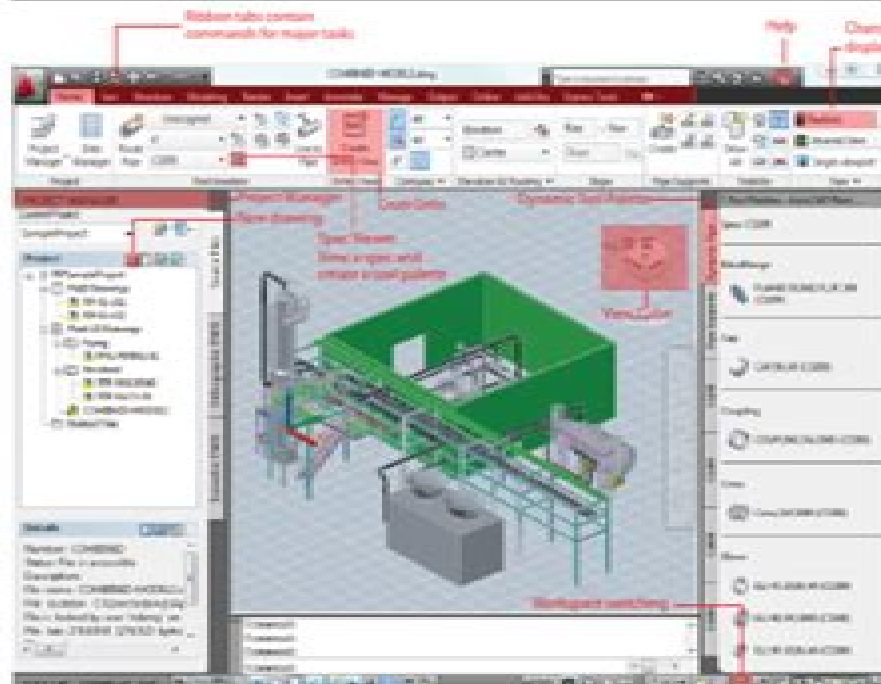
Navigation

Get around your model



The Drawing Window

Understand the User Interface



Using the Project Manager

You can create new drawings, open existing drawings, link or copy files to the project folders, and create a project

To create a project drawing:

1. In the Project Manager, right-click Plant 3D Drawings and click New Drawing
2. In the New DWG dialog box, enter the drawing number, author, drawing title, and file name
3. Click OK

Quick Tip

- Right-click a node to see a list of useful commands
- Create and organize folders to your project requirements
- To work with referenced drawings, copy or link them here

Using Tool Palettes

You can use Tool Palettes to place valves and fittings in your piping model: set the spec in the ribbon, click an item in a tool palette, and then click in the model to place it

Quick Tip

- In the Spec Viewer, click Insert in Model, Add to Tool Palette or Create Tool Palette

Getting Started

A Quick Tutorial



Step 1: Open AutoCAD Plant 3D

- Step 2: Create a project drawing
- Project Manager > Plant 3D Drawings > New Drawing
 - Enter info > OK

Step 3: Create Structure

- Ribbon > Structure tab:
 - Grid > Create
 - Settings > member info > Select
 - Member > place and align with grid
 - Repeat for stairs, ladders, etc.

Step 4: Create Equipment

- Ribbon > Home tab > Create Equipment
- Select component, specify shape and nozzle info
- Create and place in model

Step 5: Route Piping

- Ribbon > Home tab > drop-down list:
 - Line Number
 - Spit
- Ribbon > Route Pipe
- Click points in model, press ENTER to finish

Step 6: Insert a Valve or Fitting

- Tool Palette on ribbon > Home tab > Spec Viewer
- Select valve > Insert in Model
- Place in model

Step 7: Create Isometric Drawings

- Ribbon > Isos tab > Create Isos > Production Isos
- Specify project line numbers, line type, and output settings
- Create Isos

Step 8: Create Orthographic Drawings

- Ribbon > Home tab > Create Ortho View
- Select ortho drawing > OK
- Select a view, adjust the scale and view extents > OK
- Place view on Ortho drawing

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Wood & Wood Products, 1988 **AutoCAD Plant 3D 2024 for Designers, 8th Edition** Prof. Sham Tickoo, 2023-10-25 AutoCAD Plant 3D 2024 for Designers book introduces the readers to AutoCAD Plant 3D 2024 one of the world's leading application designed specifically to create and modify P ID's and plant 3D models In this book the author emphasizes on the features of AutoCAD Plant 3D 2024 that allow the user to design piping instrumentation diagrams and 3D piping models Also the chapters are structured in a pedagogical sequence that makes this book very effective in learning the features and capabilities of AutoCAD Plant 3D 2024 Special emphasis has been laid in this book on tutorials and exercises which relate to the real world projects help you understand the usage and abilities of the tools available in AutoCAD Plant 3D 2024 You will learn how to setup a project create and edit P IDs design a 3D Plant model generate isometric orthographic drawings as well as how to publish and print drawings Salient Features Consists of 10 chapters that are organized in a pedagogical sequence Project on a Thermal Power Plant Comprehensive coverage of AutoCAD Plant 3D 2024 concepts and techniques Tutorial approach to explain the concepts Detailed explanation of all commands and tools Real world mechanical engineering designs as tutorials Additional information in the form of notes and tips Self Evaluation Tests and Review Questions at the end of each chapter to help the users assess their knowledge Table of Contents Chapter 1 Introduction to AutoCAD Plant 3D Chapter 2 Creating Project and P IDs Chapter 3 Creating Structures Chapter 4 Creating

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