



Getting Started A Quick Tutorial

- Step 1: Open AutoCAD Plant 3D
- Step 2: Create a project drawing
 - Project Manager > Plant 3D Drawings > New Drawing
 - Select title > OK
- Step 3: Create Structure
 - Model > Structure tab
 - Grid > Create
 - Settings > member info > Select
 - Member > place and align with grid
 - Repeat for other members, etc.
- Step 4: Create Equipment
 - Model > Home tab > Create Equipment
 - Select component, specify shape and member info
 - Create and place in model
- Step 5: Create Piping
 - Model > Home tab > Pipe > Pipe
 - Line Number
 - Split
 - Model > Structure Pipe
 - Click system in model given E&P to finish
- Step 6: Insert a Valve or Fitting
 - Tool palette > Model > Member tab > Pipe > Valve
 - Select color > Insert in Model
 - Place in model
- Step 7: Create Isometric Drawings
 - Model > Isolate tab > Create Isolate
 - Specify project line numbers, line type, and output settings
 - Create file
- Step 8: Create Orthographic Drawings
 - Model > Isolate tab > Create Ortho View
 - Select within drawing > OK
 - Select a view, adjust the scale and view extent > OK
 - Place view in 2D drawing

The Drawing Window Understand the User Interface



What is AutoCAD Plant 3D?

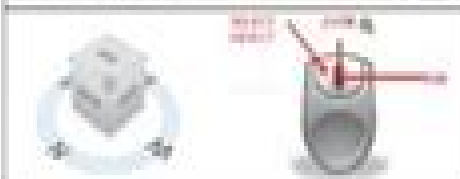
AutoCAD Plant 3D is specification-driven software for creating 3D models of process plant components. You can model pipes and equipment and other components, and include support structures.

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

Concepts & Terms

Project Manager	Central hub for all drawings, opens, 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 List	The project file
Library	A Plant 3D model or P&ID drawing
Lib	Data cache file (e.g., piping.lib)
Open / open	Open the (open)
Plot	Printing file

Navigation Get around your model



Using the Project Manager

You can create new drawings, open existing drawings, link or unlink them 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 Drawing dialog box, enter the drawing number, author, drawing title, and file name
3. Click OK

Quick Tip

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

Creating Tool Palettes

Tool Palettes are the primary way to place valves and other fittings in your piping model, click on them in model panes and thumbnails in the model to place it

Quick Tip

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

Want More Information?

Q&A Forum: www.autodesk.com/autocadexchange/plant3d/autocadexchange/subject/1341100000

Online Help: autocad.com/autocad/plant3d/help

Autodesk Consulting: autocad.com/consulting

Autocad Quick Reference Guide Autodesk 3d Design

Daniel John Stine



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