

# AutoCAD

Plant 3D

## 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
Projectfile	The project file
.dwg	A Plant 3D model or P&ID drawing
.dcl	Data cache file; e.g., piping.dcl
.spec	Spec file (spec)
.cat	Catalog file

## Navigation

Get around your model



## Using the Project Manager

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

### To create a project drawing:

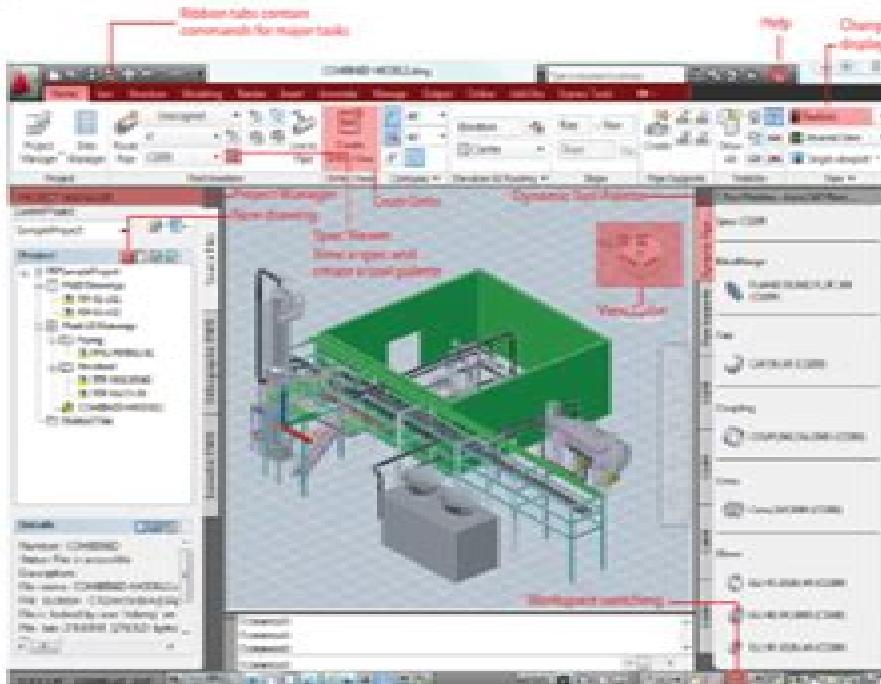
1. In the Project Manager, right-click Plant 3D Drawing and click New Drawing.
2. In the New DWG dialog box, enter the drawing number, author, drawing title, and file name.
3. Click OK.

### 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

## The Drawing Window

Understand the User Interface



## 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

## Quick Reference Guide



### 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 > members info > Select
- Members > place and align with grid
- Repeat for stairs, ladders, etc.

#### Step 4: Create Equipment

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

#### Step 5: Route Piping

- Ribbon > Home tab > drop-down lists
- Line Number
- Spine
- Ribbon > Route Pipe
- Click position in model, press ENTER to finish

#### Step 6: Insert a Value or Fitting

- Tool Palettes on ribbon > Home tab > Spec Viewer
- Select value > Insert in Model
- Place in model

#### Step 7: Create Isometric Drawings

- Ribbon > Tools tab > Create Isometric
- Specify project line numbers, line type, and output settings
- Create Isometric

#### Step 8: Create Orthographic Drawings

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

## Want More Information?

AutoCAD Exchange

[autodesk.com/plantexchange](http://autodesk.com/plantexchange)

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**R Bogdan**

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Project Thermal Power Plant

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