

## 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

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

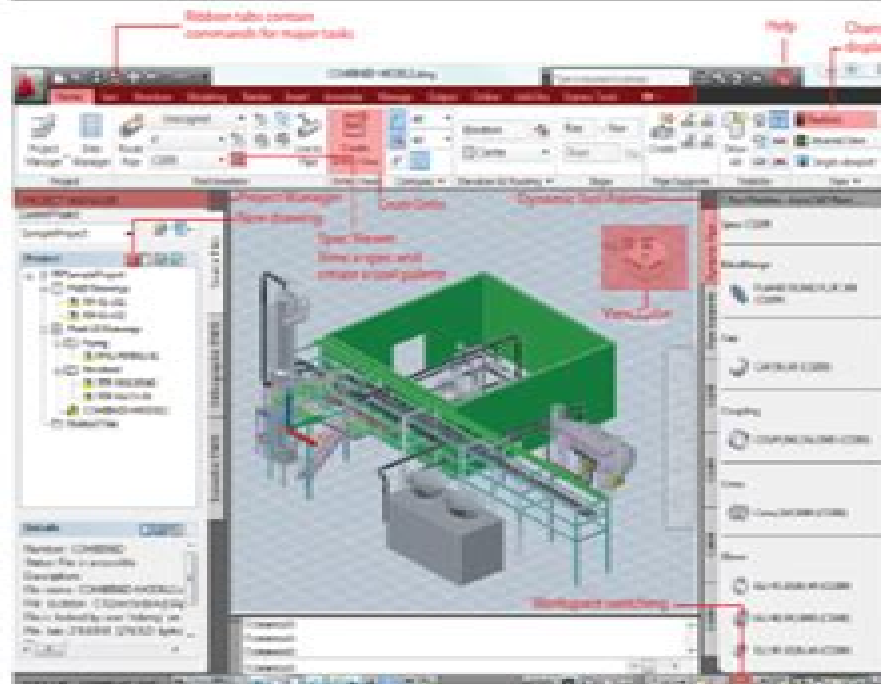
## Navigation

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
  - Spint
- 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

## Want More Information?

AutoCAD Plant Exchange [autodesk.com/plantexchange](http://autodesk.com/plantexchange)

[autodesk.com/autocadplant/discussion](http://autodesk.com/autocadplant/discussion)

Online Help [autodesk.com/autocadplant/help](http://autodesk.com/autocadplant/help)

Autodesk Consulting [autodesk.com/consulting](http://autodesk.com/consulting)

# Autocad Plant3d Quick Reference Guide

**Kathleen Armour**



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*Fairplay* ,2006      *Cumulated Index to the Books* ,1999      **American Book Publishing Record** ,1995      **The Software Encyclopedia 2001** ,2001      **Architectural Record** ,1998-07      **Marine Engineers Review** ,2000      **The British National Bibliography** Arthur James Wells,2002      **AutoCAD Plant 3D 2018 for Designers, 4th Edition** Prof. Sham Tickoo,2017-08-12

AutoCAD Plant 3D 2018 for Designers book introduces the readers to AutoCAD Plant 3D 2018 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 2018 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 2018 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 2018 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 Comprehensive coverage of AutoCAD Plant 3D 2018 concepts and techniques Tutorial approach to explain the concepts of AutoCAD Plant 3D 2018 Detailed explanation of all commands and tools Summarized content on the first page of the topics that are covered in the chapter Hundreds of illustrations for easy understanding of concepts Step by step instructions to guide the users through the learning process More than 9 real world mechanical engineering designs as tutorials Additional information throughout the book 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 Technical support by contacting techsupport cadcim com Additional learning resources at <https://allaboutcadcam.blogspot.com> Table of Contents Chapter 1 Introduction to AutoCAD Plant 3D Chapter 2 Creating Projects and P IDs Chapter 3 Creating Structures Chapter 4 Creating Equipment Chapter 5 Editing Specifications and Catalogs Chapter 6 Routing Pipes Chapter 7 Adding Valves Fittings and Pipe Supports Chapter 8 Creating Isometric Drawings Chapter 9 Creating Orthographic Drawings Chapter 10 Managing Data and Generating reports Project Thermal Power Plant For free download Index      **ENR** ,1996      **Wood & Wood Products** ,1988

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