

# 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

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

#### 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 Exchange

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

Online Help

[autodesk.com/autocadplant3d/help](http://autodesk.com/autocadplant3d/help)

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# Autocad Plant3d Quick Reference Guide

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Table of Contents:

- Chapter 1: Introduction to AutoCAD Plant 3D
- Chapter 2: Creating Project and PIDs
- 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 Creating Reports

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Arthur James Wells, 2002 *Introduction to AutoCAD Plant 3D 2019* Tutorial Books, 2018-12-03 Introduction to AutoCAD Plant 3D 2019 is a learn by doing manual focused on the basics of AutoCAD Plant 3D The book helps you to learn the process of creating projects in AutoCAD Plant 3D rather than learning individual tools and commands It consists of sixteen tutorials which help you to complete a project successfully The topics explained in the plant design process are Creating Projects Creating and Editing P IDs Managing Data Generating Reports Creating 3D Structures Adding Equipment Creating Piping Validate Drawings Creating Isometric Drawings Creating Orthographic Drawing Project Management and Printing and Publishing Drawings *Wood & Wood Products*, 1988 **AutoCAD Plant 3D 2024 for Designers, 8th Edition** Prof.

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Chapter 9 Creating Orthographic Drawings Chapter 10 Managing Data and Generating reports Index

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## **Table of Contents Autocad Plant3d Quick Reference Guide**

1. Understanding the eBook Autocad Plant3d Quick Reference Guide
  - The Rise of Digital Reading Autocad Plant3d Quick Reference Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Autocad Plant3d Quick Reference Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Autocad Plant3d Quick Reference Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Autocad Plant3d Quick Reference Guide
  - Personalized Recommendations

- Autocad Plant3d Quick Reference Guide User Reviews and Ratings
- Autocad Plant3d Quick Reference Guide and Bestseller Lists

5. Accessing Autocad Plant3d Quick Reference Guide Free and Paid eBooks

- Autocad Plant3d Quick Reference Guide Public Domain eBooks
- Autocad Plant3d Quick Reference Guide eBook Subscription Services
- Autocad Plant3d Quick Reference Guide Budget-Friendly Options

6. Navigating Autocad Plant3d Quick Reference Guide eBook Formats

- ePUB, PDF, MOBI, and More
- Autocad Plant3d Quick Reference Guide Compatibility with Devices
- Autocad Plant3d Quick Reference Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Autocad Plant3d Quick Reference Guide
- Highlighting and Note-Taking Autocad Plant3d Quick Reference Guide
- Interactive Elements Autocad Plant3d Quick Reference Guide

8. Staying Engaged with Autocad Plant3d Quick Reference Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Autocad Plant3d Quick Reference Guide

9. Balancing eBooks and Physical Books Autocad Plant3d Quick Reference Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Autocad Plant3d Quick Reference Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Autocad Plant3d Quick Reference Guide

- Setting Reading Goals Autocad Plant3d Quick Reference Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Autocad Plant3d Quick Reference Guide

- Fact-Checking eBook Content of Autocad Plant3d Quick Reference Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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