



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 Info > Insert Member
 - 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 > Home 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?

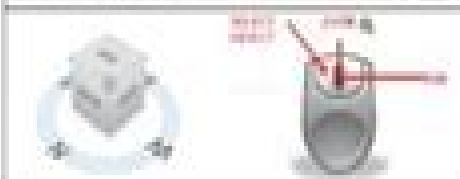
AutoCAD Plant 3D is specification-driven software for creating 3D models of process plant components. You can model pipes and equipment and other components, and include support structures.

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 files (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, look in your files for 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 in Model, Add to Tool Palette or Create Tool Palette

Want More Information?

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Kathleen Armour



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Autodesk AutoCAD 2022 User Guide Serdar Hakan DÜZGÖREN, Trace What's New in 2022 Trace provides a safe space to collaborate on drawing changes in the AutoCAD web and mobile apps without fear of altering the existing drawing The analogy of trace is a virtual collaborative tracing paper that's laid over the drawing allowing collaborators to add feedback right in the drawing Create traces in the web and mobile apps then send or share the drawing to collaborators so they can view the trace and its contents **Commercial Design Using AutoCAD 2023** Daniel John Stine, 2022-08 Designed for beginners wanting to learn how to design commercial buildings using AutoCAD Project based tutorials design a campus library from start to finish Video instruction is included with each book Bonus chapters cover an introduction to computers and a roof study workbook Commercial Design Using AutoCAD 2023 is designed for architectural students and professionals using AutoCAD 2023 The intent is to provide you with a well rounded knowledge of tools and techniques for use in both school and industry This text takes a project based approach to learning AutoCAD in which you develop a campus library throughout the book Each book comes with access to extensive video instruction in which the author explains the most common tools and techniques used when designing buildings using AutoCAD The first two chapters are intended to get you familiar with the user interface as well as the most common menu tools and commands that are required to work effectively with AutoCAD 2023 By the end of chapter two you will be excited and prepared to take on a much larger project Throughout the rest of the book you develop the campus library Using step by step tutorial lessons the library project is followed through to create FFE plans interior elevations schedules and details In these chapters many of the additional tools and features of AutoCAD 2023 are covered in greater detail General building codes and industry standard conventions are covered in a way that is applicable to the current exercise About the Videos Each book includes access to extensive video training created by author Daniel Stine The videos make it easy to see the exact menu selections made by the author while he describes how and why each step is made making it straightforward and simple to learn AutoCAD These videos allow you to become familiar with the menu selections and techniques before you begin the tutorial By watching these videos you will be more confident in what you are doing and have a better understanding of the desired outcome of each lesson The videos cover the following User Interface Getting Started Draw Tools Modify Tools Annotation Floor Plans Exterior Elevations Sections Interior Design Plotting AutoCAD and AutoCAD LT All-in-One Desk Reference For Dummies David Byrnes, Lee Ambrosius, 2006-08-07 AutoCAD is the leading software tool for creating technical and architectural drawings but it definitely doesn't lead in the easy to master category That's why there's AutoCAD and AutoCAD LT All in One Desk Reference For Dummies the perfect way to break a complex topic into bite size easy to understand pieces Once you get the hang of using AutoCAD and its slightly less feature rich cousin AutoCAD LT you discover that it offers wonderful advantages AutoCAD allows you to Create precision to 14 significant digits Re use portions of your drawings by copying and pasting Draw things full size and print your

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Residential Design Using AutoCAD

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Autodesk AutoCAD 2013 Practical 3D Drafting and Design Jo,ao Santos,2013-04-25 This book is written in a practical and friendly style with practical tutorials exercises and detailed images which will help you master the third dimension This book is intended for everyone who wants to create accurate 3D models in AutoCAD like architecture engineering or design professionals and students Only basic understanding of 2D AutoCAD is needed

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This book delves into Autocad Quick Reference Guide Autodesk 3d Design. Autocad Quick Reference Guide Autodesk 3d Design is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Autocad Quick Reference Guide Autodesk 3d Design, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Autocad Quick Reference Guide Autodesk 3d Design in Everyday Life
 - Chapter 4: Autocad Quick Reference Guide Autodesk 3d Design in Specific Contexts
 - Chapter 5: Conclusion
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