

AutoCAD®
MEP
2010

Top 10 Reasons

AutoCAD MEP software is the version of AutoCAD for mechanical, electrical, and plumbing designers and drafters.

1. Work in a Familiar AutoCAD Environment

Leverage the familiar AutoCAD® environment and access all of the commands that you are familiar with from right within AutoCAD® MEP. Commands such as copy, move, and array can be used for duct, pipe, conduit, and cable tray. In addition, to your familiar and trusted AutoCAD commands, you can access enhanced building systems design tools that enable you to copy, move, and align all in one easy step.

2. Industry-Specific Task-Based Workspaces

Whether you are a small or multidisciplinary firm workspaces apply to you. You can use workspaces to save your unique individual user interface configurations that are tailored around your specific building systems design task. Once the workspaces are created, you can quickly switch between them as needed or work from one individual workspace that's fully customized to your needs.

3. Dedicated Tools for Schematic Design

Using schematic tools within AutoCAD MEP you can quickly create schematic design documentation, Riser diagrams and schematic plans can be created with ease using tools that are logically grouped together, enabling you to easily access them whether you are working in a mechanical, electrical, or plumbing schematic design layout. Batch convert your existing AutoCAD block libraries to schematic symbols for quick use in schematic design. The converter creates not only your standard 2D symbols, but also all the isometric symbols you will need for isometric riser diagrams.

4. Construction Document Representations

AutoCAD MEP gives you the ability to represent single-line and double-line piping at the same time in your construction documentation. Lay out mechanical systems in single line with unsized parts early in the design process, and then use duct-sizing tools to convert the layout to double line more easily.

5. Smart Annotation of Objects

Annotate once for all scales. Annotative text and symbols automatically adjust based on the scale of the view. You can annotate objects with labels that consist of text or block definitions. The information in the label comes from object properties, such as duct, piping, or conduit size.

6. Seamless Coordinated Sections and Elevations

No longer wait until the end of your design process to create sections and elevations instead quickly them at any time. You can control the size and shape of the section you generate and assign materials to the section for an optimal visual representation of the sectioned objects.

7. Synchronized Schedules

With AutoCAD MEP, you can create schedules significantly faster than you can with traditional CAD drawing processes.. Any schedule that you currently use or have created in AutoCAD can be created within AutoCAD MEP with the information coming from the design rather than having to be manually input. Schedules are automatically updated as the design changes, helping to reduce errors. Create schedules as you lay out your design, and see the schedule populate automatically, saving time.

8. Drawing Management

The Drawing Management feature formalizes and automates the processes related to building system design and documentation. The feature provides automated tools that aid in the management, viewing, and creation of your construction documentation. When your project files are managed with this feature, you have better consistency in all aspects of the project, and everyone on the design team has a centralized project environment for accessing the most current documents.

Powerful linking features facilitate the distribution of source files over many different locations on your computer or on a network, enabling different people to work simultaneously on the same project.

9. Enhanced Project Display Options

Typically, manual properties of an object—such as a duct's friction loss or velocity are not visible in a drawing. Display themes let you incorporate this information in your drawing by using color-fills or hatches to highlight objects that meet criteria you establish in a display theme style. For example, check your HVAC design calculations based on friction loss or velocity to validate performance for a particular area or room. Also use the display theme By Pressure Class to visually show the high, medium, and low pressure per piping class to more easily identify potential design flaws.

10. Multidiscipline Coordination

Coordinate your mechanical, electrical, and plumbing design with architectural and structural designs using the interference detection tools within AutoCAD MEP. The internal clash-detection tool lets you generate a report that can also be exported and sent to the extended design team for resolution. The tool allows you to zoom into the specific clash, enabling you to resolve it quickly and regenerate the report.

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