

# AutoCAD P&ID

## Features and Benefits

Create, modify, and manage piping and instrumentation diagrams with AutoCAD® P&ID software. Built on the latest AutoCAD® platform, AutoCAD P&ID is familiar and easier to use. Common tasks are streamlined and automated to help boost productivity, while component and line information is more easily accessed by designers while they work.

### **Familiar to Designers and Engineers**

AutoCAD P&ID is built on the familiar AutoCAD platform, helping design teams to start using it with minimal training and upstart time. Its intuitive interface and standard AutoCAD-based functionality means that many plant designers and engineers already know how to use it. Costly server-based systems and database administration are not required.

### **Simple to Use and More Efficient**

Made specifically for P&ID designers and engineers, AutoCAD P&ID enables faster and more efficient creation, manipulation, and revision to P&ID drawings. Features such as Dynamic Lines and Dynamic Components track asset properties and can recognize the intent of the designer, helping to simplify many of the detailed tasks that designers perform repeatedly. Other capabilities include customizable tagging and property propagation, which can help save time and reduce errors by automating the creation and updating of tags.

### **More Accessible and Accurate Information**

AutoCAD P&ID helps support the integrity of engineering information throughout constant design changes and engineering modifications. The versatile Data Manager enables easier data manipulation and reporting while also supporting information exchange with external sources in multiple formats. The validation feature performs error checking to help ensure accuracy.

<b>Feature</b>	<b>Function</b>	<b>Benefit</b>
<b>Project Manager</b>	The Project Manager interface provides overall management and previews of project DWG files.	More easily set up projects and preview drawings with straightforward organization and management of DWG files.
<b>Data Manager</b>	The Data Manager provides a data-grid interface for managing engineering data.	Conveniently view and edit underlying engineering data. Evaluate data changes while seeing the impact of external data updates in the context of the drawing.
<b>Symbol Libraries</b>	Industry standard symbols (PIP, ISA, JIS, and ISO/DIN) are available from the AutoCAD P&ID tool palette. Administrators can also create symbols specific to their company or client needs.	Place symbols from the tool palette directly into drawings. Symbols snap into place automatically.
<b>Dynamic Lines</b>	Create, move, and snap lines into place using grips. Lines automatically break, mend, maintain direction, and attach to components that are inserted on the line.	Simplify creation and modification of lines with intuitive grip editing and manipulation. Minimize tedious tasks of breaking and mending lines when components are added and removed.
<b>Dynamic Components</b>	Create, move, and snap components into place. The component properties and information are dynamically linked to the underlying data.	More quickly move and snap components in place without the burden of manually editing underlying data. Minimize the number of work-steps required to insert components.
<b>Tagging and Annotations</b>	Industry-standard and customizable tag and annotation formats. Tags dynamically resize, properties propagate automatically, and information can be dragged and dropped from the Data Manager.	More easily report and share tags and annotations with an intuitive interface. Help save time and maintain consistency through standard tagging formats.
<b>Reporting</b>	Export engineering information into drawing data tables as well as various file formats such as Microsoft® Excel® and CSV.	More easily report, edit, and share project information such as line lists, valve lists, and instrument lists. More quickly sort and organize information for easier referencing.
<b>Validation</b>	Perform error checking with the ability to better identify, navigate to, and highlight inconsistencies in the drawings.	Help ensure accuracy and reduce time spent on identifying potential problems.

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