

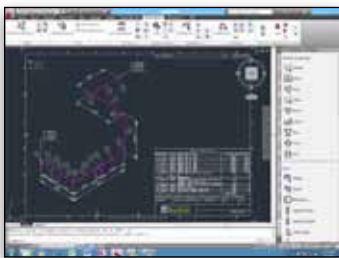
AutoPLANT® Isometrics V8i

AutoCAD-Based Intelligent Isometric Creation

AutoPLANT Isometrics V8i is an intelligent piping isometric drawing application allowing either direct spec-driven drawing creation or automatic isometric creation from an AutoPLANT Piping V8i 3D model. The combination of these two techniques ensures that designers have the correct tool for creating piping isometrics for all types of piping.

Automatic Isometric Generation from AutoPLANT Piping V8i Ensures Data Integrity

AutoPLANT Isometrics V8i is fully integrated with the Bentley plant project database – the same database shared with other Bentley plant design tools. Because piping geometry designed with AutoPLANT® Piping V8i is stored in the shared database, AutoPLANT Isometrics automatically generates piping isometric drawings from the AutoPLANT Piping data. This ensures the integrity of the data used to create the piping isometrics. Users of AutoPLANT Isometrics can automatically generate and place annotation, dimensions, and bills of materials, and can choose to draw data manually or in batch mode. They can also use AUTO-ISO to separate their isometric drawings in individual drawing sheets.



Automatic isometric creation from the 3D piping model.



Spec-driven manual drafting of isometrics.



Material quantities displayed on the isometric as a bill of materials or exported as a material take-off.

may be reported in several ways. Cut lengths for each pipe segment can be adjusted to reflect thread engagement of screwed fittings or insertion depth of socket-welded and slip-on fittings. In addition pipe lengths may be reported for each pipe segment or as total quantities.

AutoPLANT Isometrics V8i provides a comprehensive set of customization tools enabling users to customize the software to handle the specific needs of any project.

Customization Tools Extends Functionality

AutoPLANT Isometrics V8i provides a comprehensive set of customization tools that enable users to tailor the software to match specific project needs. This allows them to easily extend the functionality and capabilities of the out-of-the-box software.

Software Integration Streamlines Workflows

AutoPLANT Isometrics V8i works seamlessly with other Bentley plant design and data management applications via the common, shared plant project database. The piping isometric can be automatically generated from the data shared with AutoPLANT Piping, Bentley® Datasheets, AutoPLANT® P&ID, Bentley® Data Manager and Bentley® Instrumentation & Wiring. Integrating the Bentley plant project database with users' plant and business systems makes the most of their valuable information investments.

Spec-Driven Manual Mode Speeds Creation, Modification of Isometrics

The manual mode of AutoPLANT Isometrics V8i allows users to create intelligent piping isometrics from scratch using advanced routing and editing features. Insert and placement options are the same as those employed by AutoPLANT Piping V8i, and component data is retrieved from the same piping specification databases used by AutoPLANT Piping. The manual mode can also be used to modify piping isometrics created from AutoPLANT Piping data using the AUTO-ISO utility. AutoPLANT Isometric V8i delivers with many pipe supports and hangers: Users simply drag and drop into their isometric to assign the required parameters.

Multiple Material Reporting Formats Provide Flexibility

Accurate material quantities, obtained directly from the plant project database, can be summarized in several formats to suit a variety of requirements. A bill of materials (BOM) table can be placed directly on the drawing, or a material take-off (MTO) report can be generated separately from the drawing(s). These quantities can also be exported in common database and spreadsheet formats. In addition, pipe lengths

Recommended Configuration

Processor:

Intel Core i7, Intel Xeon or AMD Phenom, AMD Phenom II

Operating System:

Microsoft Windows 7 (32- or 64-bit) Enterprise, Ultimate or Professional Edition

Memory (RAM):

4 GB for 32-bit Windows 7, 8 GB (minimum) for 64-bit Windows 7

Graphics Card:

512 MB Microsoft Direct3D-capable workstation-class graphics card (minimum), 1 GB Microsoft Direct3D-capable workstation-class graphics card (recommended)

Disk Space:

2 GB available

Software:

- AutoCAD 2011 (32- or 64-bit)
- Microsoft Office 2010 Professional (32- or 64-bit)
- Microsoft SQL Server 2008 R2 Enterprise Edition

Find out about Bentley at: www.bentley.com

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Global Office Listings

www.bentley.com/contact

AutoPLANT Isometrics V8i At-A-Glance

Automatic or Manual Isometric Creation

- Create isometrics automatically from AutoPLANT Piping V8i
- Maintain data integrity between the piping 3D model and the isometrics
- Generate bills of materials automatically
- Create isometrics from multiple models
- Draft spec-driven intelligent isometrics from scratch with advanced routing and editing features
- Share piping specs with AutoPLANT Piping V8i
- Manually edit isometrics automatically created from the 3D piping model
- Partition piping systems to create fabrication, system, or spool "Iso's"

Parametric Pipe Supports

- Add pipe supports directly to the isometric
- Design pipe supports parametrically

Material Reporting

- Obtain material quantities from the project database
- Display bills of materials on the isometric, and generate material take-off reports from the project database
- Access maintenance, costing, and purchasing applications via export tools
- Conduct multiple pipe length reporting: individual segments or total quantities
- Adjust cut lengths for screwed fittings, socket-welded, and slip-on fittings
- View user-configurable report formats

Customization Tools

- Use Project Administrator for all project-specific configuration needs
- Use the Class Editor to customize AutoPLANT Isometrics by editing the components scripts and methods

- Edit or add tag formats, database tables and fields, define user permissions

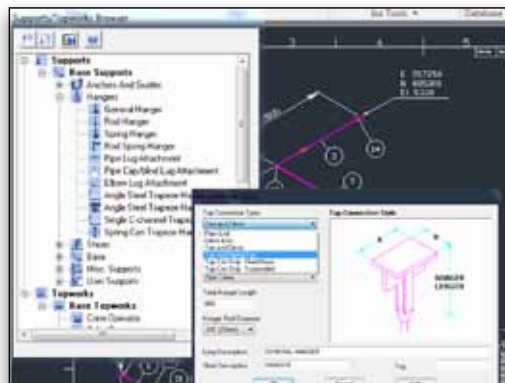
Integrated Environment

- Integrates seamlessly with the shared plant database
- Shares data with other Bentley plant design applications such as AutoPLANT Piping and AutoPLANT P&ID
- Leverages the same catalogs and specs as AutoPLANT Piping for data consistency

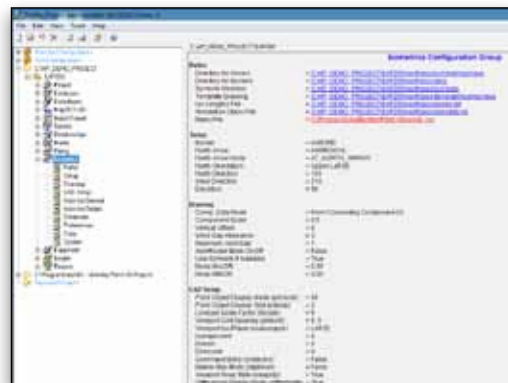
Welds

- Annotate and number welds automatically
- Annotate welds individually or all at once automatically
- Add new welds and renumber existing welds as needed

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Parametric pipe support design.



Project Administrator for project specific customization.