

AutoPLANT® Isometrics V8i (SELECTseries 7)

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 Modeler 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 Modeler V8i Ensures Data Integrity

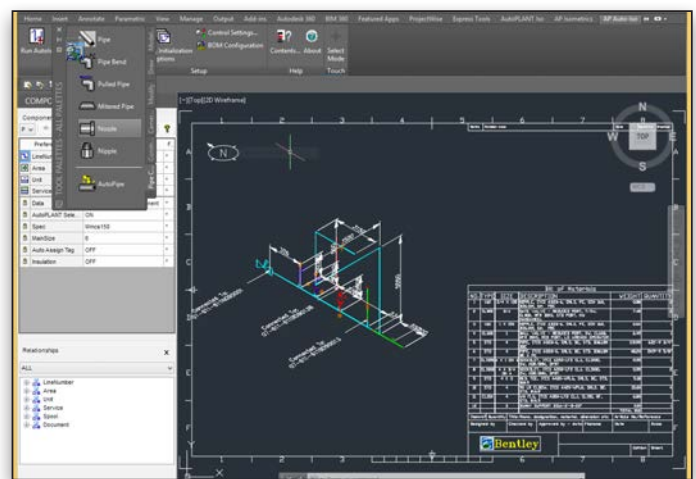
AutoPLANT Isometrics V8i is fully integrated with the Bentley® Plant project database – the same database shared with other Bentley plant design tools. As piping geometry designed with AutoPlant Modeler V8i is stored in the shared database, AutoPLANT Isometrics V8i automatically generates piping isometric drawings from the AutoPlant Modeler piping model. This ensures the integrity of the data used to create the piping isometrics. Users of AutoPLANT Isometrics V8i can automatically generate and place annotation, dimensions, and bills of materials. Auto-ISO will then separate their isometric drawings in individual drawing sheets.

Spec-driven Manual Mode Speeds Creation and Modification of Isometrics

AutoPLANT Isometrics V8i allows users to manually create intelligent piping isometrics from scratch using advanced routing and editing features. Insert and placement options are the same as those employed by AutoPlant Modeler V8i, and component data is retrieved from the same piping specs used by AutoPlant Modeler V8i. The manual mode can also be used to modify piping isometrics created from AutoPlant Modeler V8i data using the Auto-ISO utility. Piping isometrics created using the Auto-ISO utility may also be modified in manual mode. 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. 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. Pipe lengths may be reported for each pipe segment or as total quantities.



Generate isometrics with AutoPLANT Isometrics

Customization Tools Extend 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 easy extension of the software's functionality and capabilities.

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 Modeler. Integrating the Bentley plant project database with users' plant and business systems makes the most of their valuable information investments.

System Requirements

Software

AutoCAD 2015 (64 bit), Microsoft Office 2013 / 2010 Professional (32 or 64 bit), Microsoft SQL Server 2012 / 2008 R2 Enterprise Edition, ORACLE 11g Release 2 (v11.2.0.3)

Processor

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

Operating System

Microsoft Windows 8.1 / Windows 7 (64-bit) Enterprise, Professional or Ultimate Edition

Memory

8 GB (minimum) for Microsoft Windows 7 (64-bit)

Graphics Card

1 GB Microsoft Direct3D-capable workstation-class graphics card

Disk Space

2 GB available

Find out about Bentley at: www.bentley.com

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AutoPLANT Isometrics V8i At-A-Glance

Automatic or Manual Isometric Creation

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

Parametric Pipe Supports

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

Material Reporting

- Obtain material quantities from the plant project database
- Display bills of materials on the isometric, and generate material take-off reports from the plant 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 reports

Customization Tools

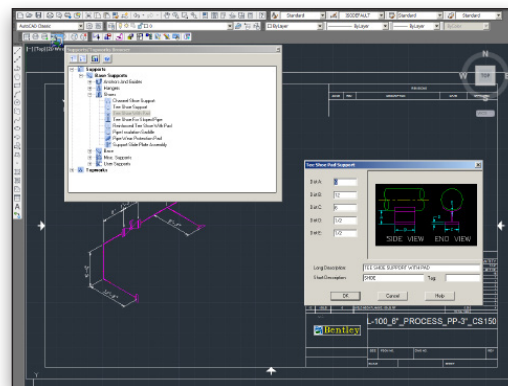
- Use Project Administrator for all project-specific configuration needs
- Use the AutoPLANT Class Editor to customize AutoPLANT Isometrics V8i by editing components scripts and methods
- Edit or add tag formats, database tables and fields, and define user permissions

Integrated Environment

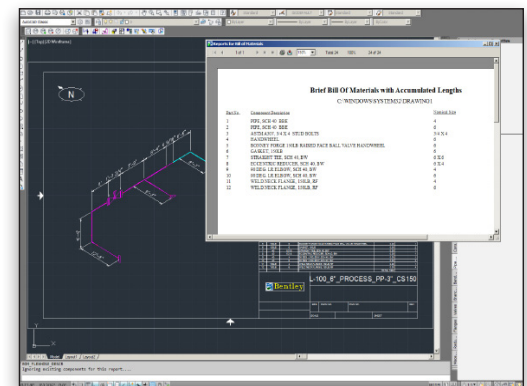
- Integrate seamlessly with AutoPlant Modeler, AutoPLANT P&ID, and other applications accessing the shared plant project database
- Leverage the same catalogs and specs as AutoPlant Modeler for data consistency

Welds

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



Includes parametric pipe support design.



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