OpenPlant® Orthographics Manager

Spend less time drawing and more time designing

OpenPlant Orthographics Manager automates the extraction and production of high-quality drawings from a 3D model, saving EPCs and owner-operators time and money. Automatic single-and double-line drawings, annotations, dimensions, and label placements accelerate drawing preparation, ensure consistent legibility, and enable designers to stay more focused on their primary jobs.

Increase productivity with drawing automation

OpenPlant Orthographics Manager automates the production of drawings and increases productivity, allowing designers to spend less time extracting 2D files. Output of orthographics with annotation applied for various disciplines, as well as dimensioning, label placement and more, is achieved through the application's ability to quickly read the 3D model information and transpose that to the orthographic drawing, saving designers time and reducing errors.

Increase legibility on deliverables

OpenPlant Orthographics Manager allows users to automatically create single- and double-line

drawing output through a simple configuration setting for the same model, enabling line display to be controlled through pipe size, increasing legibility on highly detailed drawings.

Better manage annotation options with a streamlined interface

OpenPlant Orthographics Manager provides a single interface to reduce the challenges of working with multiple interfaces to manage annotations for various disciplines such as piping, equipment, HVAC, cable tray, and structural. This interface eases the task of managing annotation options and keeps track of project configurations for better project settings capture and drawing output control.

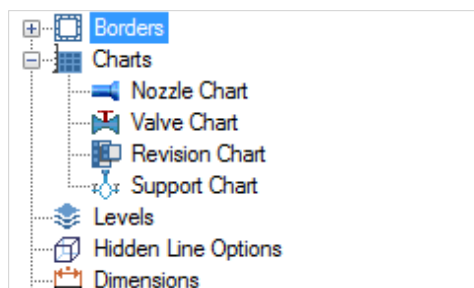### Rapid drawing management through multiple views

OpenPlant Orthographics Manager reduces complexity when defining and managing 2D views for multiple drawing views. Designers can interactively select the required clipping sections and add multiple views for definition files, with the ability to change view scale and rotation, saving time and increasing quality.

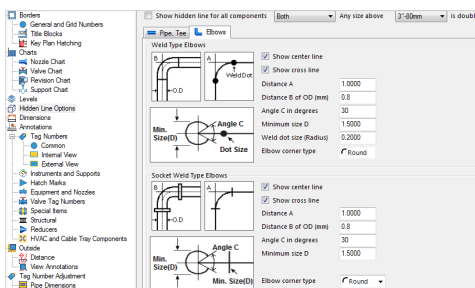### Faster production and increased legibility with optimal label placement

OpenPlant Orthographics Manager's white space search algorithm quickly finds free spaces in general arrangement drawings for labeling various design components, such as instruments, supports, nozzles, reducers, and line numbers. This capability optimizes legibility, eliminating markups and drawing rework, and reduces output time from hours to minutes.

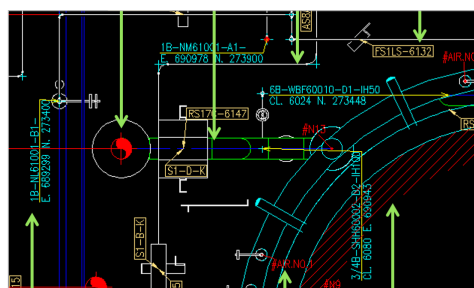### Improve project collaboration with ProjectWise®

OpenPlant Orthographics Manager integrates with ProjectWise for project information management and collaboration cloud services. The integration enables a connection to any ProjectWise repository to directly download models and upload drawings. Users can quickly find and share information without having to send files via email or distribute through file transfer networks saving time and overall costs.

OpenPlant Orthographics Manager drawing symbology options.

The intuitive user interface offers a variety of project and configuration settings.

OpenPlant Orthographics Manager sample output.

System requirements

Minimum: Windows 11 or 10 (64 bit)/Windows 11 (24H2) or Windows 10 (21H2), Windows Server 2019, Windows Server 2022 (64 bit) Intel® or AMD® Processor 2.5 GHz or greater, 16 GB memory
Recommended: 32 GB memory

OpenPlant Orthographics Manager at-a-glance

Increased productivity
- Easy to create 2D piping general arrangement drawings
- Ability to regenerate drawings with different annotation and labeling options, providing rapid project configuration

Multiple project configurations
- Works with different project units (imperial/metric)
- Configuration settings are saved to a project setting file and can be reloaded to maintain existing drawing conditions

Single/double-line drawing output
- Users can create single/double line drawing output
- Line display can be controlled through pipe size

Built-in reports
- Available for pipe, support, equipment, and instrument lists with 2D Free Space Search and Optimization
- Enhanced algorithm finds free spaces in general arrangement drawings for the optimal placement of labels
- Avoids interference of the label (e.g. text string and leaders) with other text or geometry in the drawing
- Gives ability to control interference through user interface generation option

Labeling priority/control
- Ability to set priority of label (pipe, control valves, supports) in the drawing to avoid overlapping interference on highly detailed drawings
- Effectively and efficiently uses the space around a tagged item
- Uses two types of label control options based on internal density or boundary area

Multiviews and composite views
- Supports multiple views of 3D design to create composite drawings
- Ability to interactively select desired clipping sections

Hidden line option
- Hidden line drawings for 3D models can be controlled through on/off settings
- Various options are available to control hidden line output
  - Elbow (Weld/SW and THD type), Tee
  - Option to show centerlines
  - Pipe (single/double-line display with industry-standard 2D symbols)

Publish deliverables to ProjectWise Share
- Exchange files of any size quickly through a centralized, easy-to-use platform
- Allow designated project participants to easily access project deliverables without opening your firewall
- Discover up-to-date files readily by organizing them in an intuitive, project-based context
- Reduce disruptions to your workflows via integration with other select Bentley design applications

Runtime options
- Output unit (metric/imperial)
- Placement priority of inside annotations
- Free space searching density (sparse/average/dense mode)
- Annotation filtering options
- Free space searching boundary (fast/middle/detail mode)

OpenPlant Orthographics Manager output
- 2D hidden line MicroStation® output (.DGN) with dimensions and annotations

Bentley

Find out more at **Bentley.com**
1.800.BENTLEY (1.800.236.8539)
Outside the U.S.: +1.610.458.5000
Global office listings: bentley.com/contact