



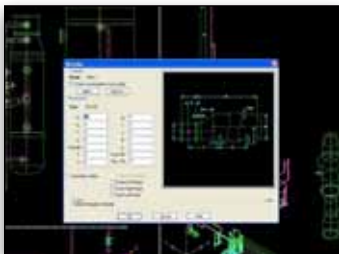
AutoPLANT® Equipment V8i

AutoCAD-Based 3D Parametric Equipment Modeling

AutoPLANT Equipment V8i enables quick and accurate 3D modeling of intelligent plant equipment, nozzles, ladders, platforms, and walkways. It provides a complete and comprehensive library of parametric plant equipment types, and complex custom plant equipment can be easily modeled from primitives.



Uses parametric data to design equipment.



Includes libraries of standard equipment types.



Allows users to report on equipment and nozzle data.

Parametric Equipment Design

With AutoPLANT Equipment V8i, users can model plant equipment parametrically. Dialog boxes are presented with graphical representations of the equipment, along with data fields for each design criteria, enabling users to precisely model the equipment. As the plant design evolves or changes, updates can be applied to the design parameters and the 3D equipment will be automatically updated graphically.

Standard Equipment Types

AutoPLANT Equipment V8i includes a wide range of standard plant equipment types such as pumps, vessels, and exchangers. These equipment types can be selected from the menus or toolbars within AutoPLANT Equipment V8i and placed by defined location points, or relative to global reference points.

Custom Equipment From Primitives

With the software, users can easily create custom equipment from intelligent primitives. Placing an equipment primitive defines the master or parent component, while attaching associative primitives defines the slave or child components. Constructing equipment assemblies in this manner is similar to attaching nozzles to equipment. By modifying the vessel's dimensional parameters, the nozzles will move accordingly. Similarly, modifying the parent primitive of an equipment assembly moves or sizes the child primitives accordingly.

User Defined Equipment

The user-defined option within AutoPLANT Equipment V8i enables users to create plant equipment components from one or more existing AutoCAD or AutoPLANT Equipment entities in a drawing. These entities can be anything from an AutoCAD solid primitive to a complex component, such as a block or custom object. The user-defined equipment option brings legacy and other third-party equipment components into the intelligent AutoPLANT Equipment V8i environment.

Intelligent Nozzles

AutoPLANT Equipment V8i provides a variety of options for placing and orienting nozzles. First of all, nozzles are placed using parametric information from external database specifications. Once the nozzle is placed on the equipment, the intelligence becomes available within the AutoPLANT Piping V8i application. With AutoPLANT Piping V8i, the user connects the piping components to the nozzles. Then, the pipe size, pipe spec, rating, facing, or line number is carried over to the connecting piping component.

Integrated Plant Project Database

The AutoPLANT Equipment V8i 2D to 3D interface links equipment tags and nozzle tags with the plant project database. This is the same plant project database that's shared with AutoPLANT P&ID V8i, AutoPLANT Piping V8i, Bentley Data Manager V8i, Bentley Datasheets V8i, and Bentley Instrumentation & Wiring V8i.

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Recommended System 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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AutoPLANT Equipment V8i At-A-Glance

Parametric

- Lets users model equipment using parametric information
- Provides a dialog-based GUI for equipment design
- Uses dimensional changes to automatically update the model

Reporting

- Produce pre-defined reports including equipment lists and nozzle take-offs
- Create custom reports to group and sort equipment and nozzle data stored in the plant project database

Positioning Location Points

- Define location points for positioning plant equipment
- Relocate equipment automatically based on modified location points
- Position equipment via location points or global reference points

Predefined Plant Equipment

- Includes predefined, commonly used plant equipment types
- Includes material handling equipment such as conveyers and bucket elevators
- Includes specialized pumps for the water and wastewater industries plus RO reactors for pharmaceutical and biotech industries

Spec-Driven Pumps

- Store standard pump parameters in a Microsoft® Access database
- Enter new pump data into the spec to re-use when a similar pump is required

Editing Equipment

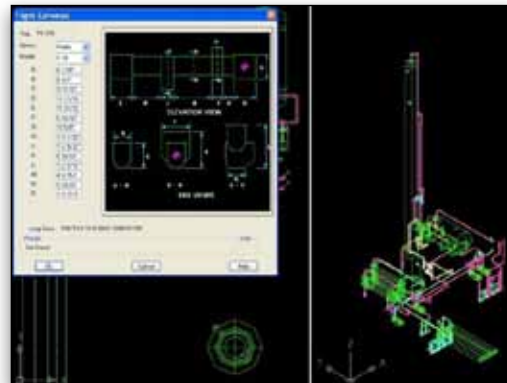
- Update equipment automatically when a design parameter is changed
- Update equipment automatically when the sizes of primitives or pre-defined scripts are changed

Project Flexibility

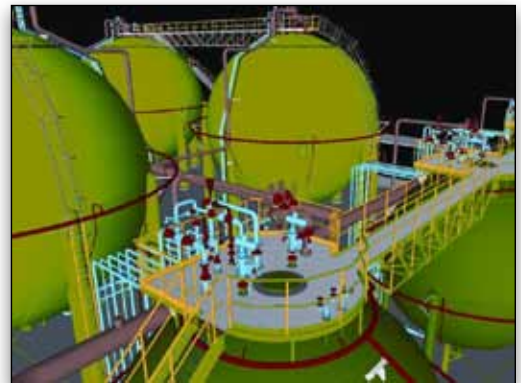
- Create individual equipment models outside of the project environment
- Build a project from individual equipment models
- Restore individual equipment models from backups
- Move equipment models between projects
- Work on project models when disconnected from the project

Publish i-models Within AutoPLANT

- Create AutoPLANT i-models directly from the AutoPLANT Equipment interface
- Create project milestone archive drawings that include embedded project data
- Review 3D design models with Bentley Navigator



Displays bulk material handling equipment.



Model equipment using AutoPLANT Equipment.