

BENTLEY® AUTOPLANT® STRUCTURAL MODELER™

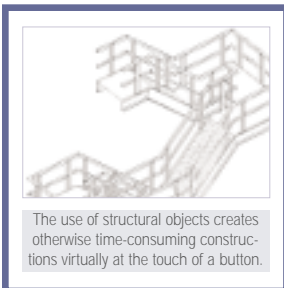
Versatile 3D steel modeling tools for plant design and construction



Bentley® AutoPLANT® Structural Modeler™ is an easy-to-use, low cost, 3D steel modeling application that can model virtually anything that can be constructed. It includes pre-defined structural objects, such as handrails and stairs, to maximize your productivity. AutoPLANT Structural Modeler can be used in conjunction with AutoPLANT Explorer/ID to check for interferences against piping, equipment or other components of the completed building.

Custom/Combination Steel Shapes

If your structural project requires the use of custom steel members, creating them is as simple as drawing a cross-section of the member. These shapes can then be saved in various catalogs containing an unlimited number of shapes. You can also create and save shape combinations by building them from existing and/or user-defined shape primitives. This allows you to construct and re-use common shapes in your design, simplifying placement and modification in complex models.

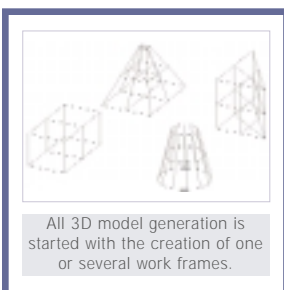


Parametric Joints

AutoPLANT Structural Modeler allows you to add bracing and base plate connections to steel. By upgrading to Structural 3D, you can augment this ability with a more complete set of parametric joint options.

Custom Shapes

Once your model is created, AutoPLANT Structural Modeler can automatically calculate the required number of roof/wall elements, and perform all of the final editing and processing required for placement. This automated process optimizes your design and minimizes waste. The results are color-coded to identify shapes that have been processed. This process can also be performed manually, specifying specific placement parameters in the same manner that is used to position standard shapes.



Structural Objects

Parametric structural tools create complete construction entities such as purlins, stairs and handrails, reducing time-consuming modeling processes. This allows you to do "what if" scenarios of different structural designs.

Work Frames

All 3D model generation starts with the creation of one or several work frames. These work frames aid 3D orientation by displaying basic system dimensions as design aid objects. You can automatically create the associated user coordinate system (UCS) of the views created by defining the work frame. You can also define as many different work frames within one model as desired and they will be distinguished from each other by their respective group names.

BENTLEY AUTOPLANT STRUCTURAL MODELER AT-A-GLANCE



AutoPLANT Structural Modeler can generate plates in any shape and size.

Construction Use

- Structural-steel construction/steel structural engineering
- Hall construction/plant and facility construction
- Rack construction/facade construction
- Materials-handling technology/heavy mechanical engineering

Parametric Joints

- Bracing
- Haunches
- Base Plates

Structural Objects

- Ability to generate and edit multi-level stairs easily and rapidly, displaying all relevant parameters such as length, width, height, type and number of newels
- Quick and easy creation of handrails
- Use of polyline as the foundation of every handrail, extending across both plane and 3D spaces
- Generation of symmetrical or asymmetrical frames (with or without haunches) by defining a few key values
- Truss creation incorporates dimensions, specified via two points or dialog entry. Four different truss types are available, featuring a variety of different vertical and diagonal joint variations
- Purlin course application in the construction of floors, roofs, halls, girts, and stages
- Tools to place ladders with or without cage and wall mounting, parametrically controlling its integrated parts

Poly Plates

- Plate generation in any shape and size
- Geometry specification through dialog boxes or graphically selected points within the drawing
- Plate modification through editing, cutting or drilling. Ability to manipulate sheet contours by adjusting the component's AutoCAD® "grips"

VBA Interface

- VBA interface to access structural 3D object library



AutoPLANT Structural Modeler is compatible with a variety of standards and formats.



The new AutoCAD 2000 MDI capability allows designers to edit several drawings simultaneously.

BENTLEY AUTOPLANT STRUCTURAL MODELER SYSTEM REQUIREMENTS

- Processor: Pentium® II 500MHz
- Operating System: Windows® 98, 2000 or Windows NT® 4.0 SP6
- Software: AutoCAD 2000, 2000i or 2002
- Memory: 128MB RAM
- Disk Space: 650MB (1GB recommended)

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