



# OpenPlant® Support Engineering

## Quickly and accurately model detailed supports

OpenPlant Support Engineering enables EPCs and plant owner-operators to accelerate the design, modeling, and placement of supports and support assemblies, reducing overall project design time. The application increases productivity and design accuracy with an extensive collection of vendor support catalogs and automated construction deliverables.

### Fast and accurate model generation

Quickly create support models for piping, HVAC, or raceways using pre-defined supports, and examine multiple support options with OpenPlant Support Engineering. Save overall project time by reducing time spent on designing and modeling supports and support assemblies. Users can modify existing supports from OpenPlant Support Engineering's out-of-the-box catalog to create their own catalog of supports.

### Precise support placement

OpenPlant Support Engineering provides users with the capabilities needed for placing supports quickly and accurately. Users can place supports using advanced placement capabilities that include rotation with yaw, pitch, and roll, or a MicroStation-based capability that provides intelligent modeling for placing supports.

Use support locators to determine where supports need to be located and replace

them later with supports. Place locators automatically at fixed intervals on long pipelines, or manually at specific locations. Increase project collaboration by allowing team members to determine support locations while others determine support type.

### Extensive vendor catalog to save time and ensure accuracy

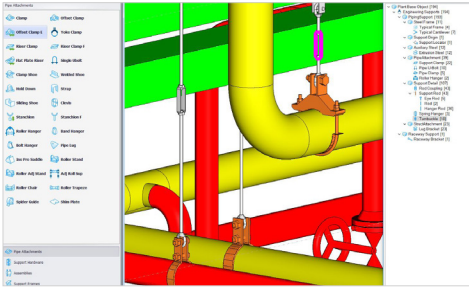
OpenPlant Support Engineering currently contains over 22,000 supports and support assemblies from a growing list of vendors. The supports and their graphical representation are accurate reflections of the vendor specifications. Import supports directly from vendor catalogs to save time and eliminate errors introduced when interpreting and modeling vendor specifications. The catalog in OpenPlant Support Engineering is kept current with vendor specifications.

### Automatic bills of material for more accurate construction deliverables

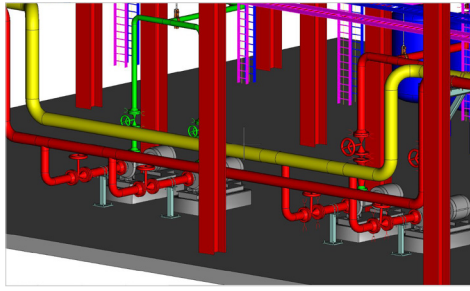
The application automatically generates detailed support drawings that include the bill of materials. Users get accurate cost estimates and save time by eliminating manual take-offs. Users also avoid construction delays by getting reliable construction deliverables.

### Interoperability with Bentley applications for effective reuse of design data

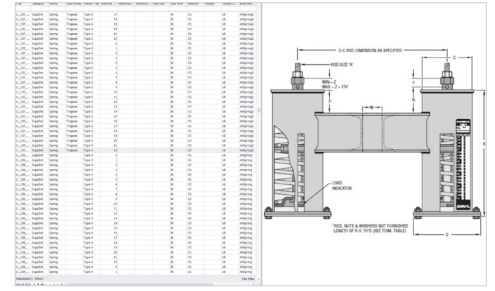
OpenPlant Support Engineering is now available to be installed directly inside OpenPlant Modeler to allow users to work in same design file and modeling session when placing supports along with piping and equipment. In this mode, OpenPlant Support Engineering is also integrated with PlantSight, enabling OpenPlant users to deliver digital twins for all their projects. OpenPlant Modeler's integrated workflows with PlantSight provide users the ability to support distributed teams, utilize component-based workflows, and track and manage changes. A digital twin ensures consistent and up-to-date engineering information across the design phase with continuous handover into operations. Integration with OpenPlant Modeler allows users to leverage 3D OpenPlant models directly as the starting point for support design. Referencing OpenPlant Support Engineering data inside OpenPlant Modeler allows users to effectively run in-session isometrics to generate isometric drawings with complete information, reducing the overall time to produce project deliverables.



The Model Expert provides reports on single models or on the catalog.



The Tool Cabinet gives users quick access to different pre-built support options.



The supports and their graphical representation are accurate reflections of the vendor specifications

## 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 Support Engineering at-a-glance

### Increased productivity

- Fast, accurate placement of supports
- Multiple vendor catalogs:
  - Anvil International
  - Bergen-Power
  - Carpenter & Patterson Inc.
  - Lisega
  - Piping Technology and Products
  - WookWang Industrial Co., Ltd.
- Automated construction deliverables
- Integration with OpenPlant Modeler as starting point for support design

### Advanced placement tools

- Universal Placement Dashboard with capabilities for:
  - Location
  - Rotation
  - Linear transformations
  - Alignments
- Manual and automated placement of support locators
- Direct modeling of supports using component parts
- Support category options:
  - Pipe attachments
  - Steel attachments
  - Auxiliary items
  - Supplemental steel

### Support drawing generation

- Customizable drawing:
  - Multiple views
  - Automated bill of materials section
  - Notes section
- Parts callout in bill of materials section with all support parts in the chosen support assembly

### Multiple project configurations

- Works with different project units, such as imperial, metric, and mixed metric
- Configuration through the application for basic software needs and through OpenPlant Project Administrator for configuration of a ProjectWise® Managed Workspace

### Built-in reports

- Report on single models and catalogs using the Model Expert
- Customize reports using OpenPlant Project Administrator

### Multiple modes of operation

- Reference design files or iModels from:
  - AutoPLANT®
  - OpenPlant Modeler
  - ProStructures™
  - Other applications
- Create iModels for use in Bentley View for design review and clash detection
- Integrated inside OpenPlant Modeler for common modeling design experience

### Integration with other Bentley products

- OpenPlant Modeler for piping and equipment
- OpenPlant Isometrics Manager for isometric output with integrated supports
- Bentley Raceway and Cable Management for conduits and cable trays

### Publish design files to ProjectWise share

- Fast file exchange of any size through a centralized, easy-to-use platform
- Enables easy access for designated project participants without firewall issues
- Organize files intuitively within a project-based structure for quick access to current versions
- Minimizes workflow disruption via integration with other Bentley design applications

## Bentley

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

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