Bentley
Advancing Infrastructure

PRODUCT DATA SHEET

Plant Design WorkSuite™

Multi-Discipline Plant Design Software

Plant Design WorkSuite is a comprehensive software solution tailored for the design, engineering, and construction of industrial plants. It integrates various applications to support efficient project execution, from initial conceptual design through detailed engineering to construction and operation. The suite leverages advanced technology to enhance productivity, ensure accuracy, and promote collaboration among multidisciplinary teams.

COMPREHENSIVE 3D PLANT DESIGN

Plant Design WorkSuite enables the creation of detailed, intelligent 3D models of plant facilities through its integrated 3D modeling capabilities. It streamlines the design and layout of parametric and custom equipment, complex piping systems, electrical systems, and ducts, ensuring compliance with industry standards. The suite enables the rapid creation of intelligent piping and instrumentation diagrams (P&IDs) and makes them widely accessible, enhancing design collaboration and operational efficiency. Additionally, it facilitates the design of structural components, including steel and concrete structures, providing a holistic approach to plant design.

COLLABORATION AND COMMUNICATION

Plant Design WorkSuite seamlessly integrates with other Bentley solutions and third-party applications, supporting a wide range of file formats to enhance interoperability. It centralizes project data management, ensuring all team members have access to the latest information. The suite also facilitates real-time collaboration among multidisciplinary teams, enhancing project coordination and efficiency.

ADVANCED DESIGN CAPABILITIES

Advanced features within Bentley's Plant Design WorkSuite streamline the design and drafting processes. Specification-driven pipe routing, isometric drawing production, cable management, and bill of materials (BOM) creation reduce the manual effort required and minimize the potential for human error. These features lead to faster project completion times and more accurate deliverables.

ACCURACY AND EFFICIENCY

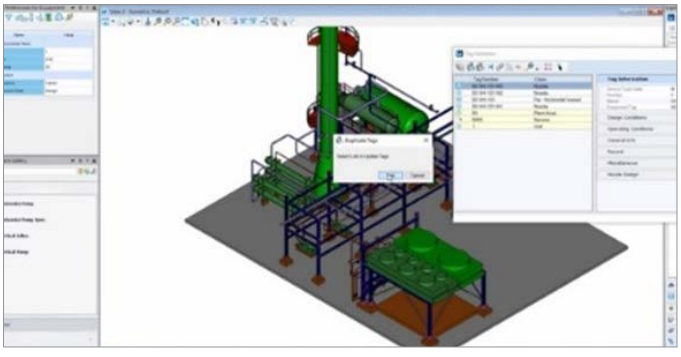
The suite automates repetitive tasks, reducing manual effort and increasing accuracy to produce precise deliverables. It offers customizable templates and workflows to fit specific project requirements and standards. Additionally, Plant Design WorkSuite provides high-quality visualization and rendering capabilities for better design understanding and stakeholder communication.

FLEXIBILITY AND SCALABILITY

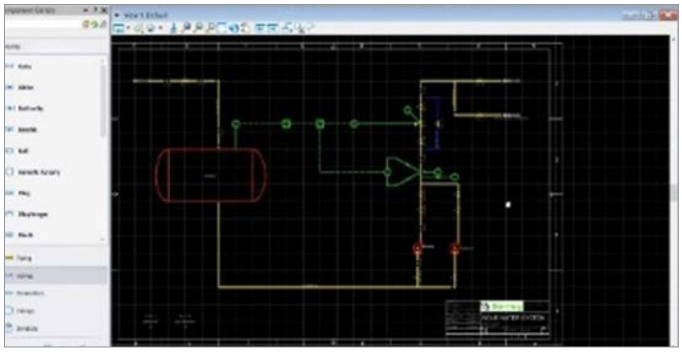
Plant Design WorkSuite applications can easily adapt to projects of different sizes and complexities, freeing teams from spending time learning new applications or migrating to different software for different projects.

A PARTNER IN YOUR SUCCESS

Plant Design WorkSuite includes all the applications that you need at one competitive price, making the bundle much more affordable for a significantly greater range of features. You will get access to support services such as one-to-one mentoring by Bentley project experts, personalized training for your team, and on-demand learning to ensure that you and your team can quickly learn the latest technology and workflows while minimizing downtime and project costs.



Create detailed, intelligent 3D models of plant facilities



Generate intelligent P&IDs with components validated against piping specifications

SYSTEM REQUIREMENTS

MINIMUM: Windows 11 or 10 (64-bit or 21H2), Windows 8.1 (64-bit), Intel or AMD processor 1.0 GHz or greater, 16 GB RAM

RECOMMENDED: 32 GB RAM

Plant Design WorkSuite At-a-glance

OPENPLANT® MODELER

OpenPlant Modeler is a 3D modeling application for efficient and collaborative plant design and construction. It supports equipment, piping, HVAC, and other plant components, enabling teams to work seamlessly across locations and disciplines.

- Provides robust features for 3D modeling of complex plant systems, including routing, clash detection, and generation of precise isometric drawings, orthographic views, and reports.
- Offers extensive libraries of industry-standard components for piping, HVAC, and structural elements, streamlining the design process and ensuring compliance with standards.
- Utilizes iTwin® technology, allowing project teams to work remotely or in a connected environment.
- Supports various data types such as DGN, DWG, JT, point clouds, reality meshes, and PDFs, ensuring a flexible design and review process.

OPENPLANT PID

OpenPlant PID is a versatile application for creating intelligent P&IDs. It enables the development of data-driven diagrams that integrate with 3D models and other engineering data.

- Facilitates the creation of P&IDs with components validated against piping specifications.
- Uses computational drafting routines to speed up drawing generation.
- Features task-based navigation and advanced user interface elements for ease of learning and use.

OPENPLANT ISOMETRICS MANAGER

OpenPlant Isometrics Manager is a specialized application for generating intelligent isometric drawings of piping systems. It automates the creation of isometrics directly from 3D models, ensuring accurate and detailed documentation for fabrication and construction.

- Allows independent production of isometrics by document control or supporting personnel, freeing piping designers for design tasks.
- Manages isometric production with project-based rules, enabling easy generation from OpenPlant Modeler, iModel®, connected iTwin projects, or other sources.
- Supports output in DGN, RealDWG, and PDF formats.

BENTLEY RACEWAY AND CABLE MANAGEMENT™

Bentley Raceway and Cable Management is an advanced application for designing and managing raceway and cable systems in infrastructure projects. It streamlines the planning, layout, and documentation of electrical and communication systems, ensuring efficient and error-free installations.

- Enables the design of complex raceway and cable systems within an integrated environment.
- Offers intelligent cable management using rule-based cable routing and raceway size and weight calculations.
- Includes layout, routing, and material estimating functions in a single system.
- Provides automated workflows for conceptual and detailed design phases, facilitating efficient project execution.

OPENPLANT ORTHOGRAPHICS MANAGER

OpenPlant Orthographics Manager is a powerful application for generating detailed orthographic drawings from 3D plant models. Automatically creates accurate orthographic drawings from 3D models, saving time and reducing manual drafting errors.

- Regenerate drawings with different annotation and labeling options, providing rapid project configuration.
- Ensure up-to-date drawings with faster revisions through automatic single and double-line drawings, annotations, and dimensions.

OPENPLANT SUPPORT ENGINEERING

OpenPlant Support Engineering is a specialized application for designing pipe supports within plant infrastructure. It enhances the efficiency and accuracy of support placement and ensures compliance with industry standards, providing robust solutions for plant design and maintenance.

- Facilitates the detailed design and placement of pipe supports, ensuring optimal support configurations.
- Seamlessly integrates with 3D plant models, ensuring support designs are accurate and consistent with the overall project.
- Auto-generates support drawings with a bill of materials, providing accurate cost estimates, saving time, and ensuring reliable construction deliverables.

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FIND OUT MORE AT BENTLEY.COM

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