



CADWorx® Plant Professional

Most complete range of tools for efficient plant design

Capabilities:

- Intelligent 3D piping design
- Specification-driven design
- Efficient specification management
- Dynamic pipe supports
- Detailed bill of materials
- Equipment library administration
- Ducting/cable trays
- Collision checking
- Isogen® isometrics
- Live database links
- Intelligent process diagrams
- Model/P&ID synchronization
- Links to stress analysis
- As-builts from point clouds

CADWorx Plant Professional enables efficient plant design for both greenfield and brownfield projects by providing a complete range of tools for creating intelligent 3D plant designs with DWG-based deliverables. CADWorx offers unparalleled flexibility and productivity to help thousands of corporations execute projects and rapidly create cost-effective deliverables. Leverage point cloud data in combination with easy-to-use CADWorx Plant Professional to execute brownfield projects with greater accuracy than gathering field data with more manual processes.

Additional modules that are included in the CADWorx Plant bundle:

- CADWorx Equipment
- CADWorx P&ID Professional
- CADWorx Design Review Professional
- CADWorx Structure Professional

Process and instrumentation diagrams

CADWorx P&ID software provides productivity tools to create intelligent process diagrams. With CADWorx P&ID Professional, CADWorx 3D plant models can be linked for change management control, making your 3D models synchronized with your piping and instrumentation diagrams (P&IDs) and avoiding costly field mistakes.

Software automation increases productivity

The auto-routing capabilities of CADWorx allow piping designers to create 3D piping models quickly, accurately and intuitively. The software allows the designer to focus on design tasks by generating 3D models automatically.

Configurable Piping Rules assist designers during their workflow by automating piping component placement and ensure that project standards are adhered to which improves accuracy and yields cost savings during project execution.

Automatic isometrics

Isometrics drawings can be produced from piping layouts or project databases. CADWorx Plant Professional includes IsoGen® for automated isometric production.

Piping specifications

Ready-to-use specifications in metric and imperial formats are included. The Specification Editor allows the creation of parametrically-driven piping specifications. Import utilities for Intergraph Smart® Reference Data provide the administrator with dozens of ready to use international specifications.

Database links

Users can create accurate, user-configurable bills of material in the most popular database formats. The optional live database links in CADWorx provide real-time design status and valuable information backup to project administrators who have a desire to improve accuracy and efficiencies of their designers.

Equipment modeling

Powerful equipment modeling capabilities are included to provide the most complete plant models. Designers can link to PV Elite® to import equipment into their CADWorx Plant Professional models or jump start their PV Elite designs by exporting from CADWorx Plant Professional. Administrators can build their own libraries of equipment to suit the needs of their industry and projects.

Walkthrough capabilities

CADWorx Design Review Professional is included for model visualization and 3D design coordination with its powerful collaboration utilities and markup tools.

Collision checking

CADWorx Clash Detection identifies conflicts in the current model and against externally referenced files. Reserve space for installation and usability of components so that you can catch clashes in the 3D model environment, not in the field. Options enable clashes to be reported at any time during the design process.

Ducting and cable trays

HVAC ducting and cable tray routines are included. Square, rectangular, round, and oval shapes, with transitions, are available.

Change management

Automated and intuitive routines make changing piping sizes and specifications quick and easy.

Integration with analysis software

CADWorx Plant Professional includes CADWorx Structure Professional for effective structural design and links to CAESAR II® for pipe stress analysis, PV Elite for equipment analysis, and GT STRUDL® for structural analysis. This allows the reuse of the 3D model components for a time-saving and accuracy-improving workflow solution

Technical specifications

- AutoCAD®-compatible
- BricsCAD®-compatible (Recommended)

About Hexagon

Hexagon is the global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Hexagon's **Asset Lifecycle Intelligence division** helps clients design, construct, and operate more profitable, safe, and sustainable industrial facilities. We empower customers to unlock data, accelerate industrial project modernization and digital maturity, increase productivity, and move the sustainability needle.

Our technologies help produce actionable insights that enable better decision-making and intelligence across the asset lifecycle of industrial projects, leading to improvements in safety, quality, efficiency, and productivity, which contribute to Economic and Environmental Sustainability.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,000 employees in 50 countries and net sales of approximately 5.5bn USD. Learn more at [hexagon.com](https://www.hexagon.com) and follow us [@HexagonAB](https://twitter.com/HexagonAB).