

# CADWORX® PLANT PROFESSIONAL



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Most Complete Range of Tools for Efficient Plant Design

CADWorx Plant Professional enables efficient plant design for both greenfield and brownfield projects by providing a complete range of tools for creation of intelligent 3D plant designs with DWG-based deliverables. Paired with BricsCAD Pro, 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.

## 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

## **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 P&IDs and avoiding costly field mistakes.

## **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 Smart Reference Data provide the administrator with dozens of ready to use international specifications

## **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.

## **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 that 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 models or jump start their PV Elite designs by exporting from CADWorx Plant. Administrators can build their own libraries of equipment to suit the needs of their industry and projects.

## **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.

## **CHANGE MANAGEMENT**

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

## **WALKTHROUGH CAPABILITIES**

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

## **DUCTING AND CABLE TRAYS**

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

## **INTEGRATION WITH ANALYSIS SOFTWARE**

CADWorx Plant Professional includes CADWorx Structure 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**

- BricsCAD®-compatible (included)
- AutoCAD®-compatible

# WHAT NEXT?

Would you like to learn more about what makes CADWorx® Plant Professional the most complete range of tools for efficient plant design? Contact us to be put in touch with one of our CAD/CAE experts.

Email [info@docanco.com](mailto:info@docanco.com) or call 0160 621 2330.

# ABOUT HEXAGON

CADWorx® Plant Professional is produced by Hexagon.

Hexagon is a global leader in sensor, software and autonomous solutions, putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle. Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.9bn EUR.

