

CADWorx

Product: CADWorx Plant: 2020 (20.00.00)
CADWorx Spec Editor: 2020 (20.00.00)
CADWorx P&ID: 2020 (20.00.00)
CADWorx Equipment: 2020 (20.00.00)
CADWorx Design Review: 2020 (20.00.00)
CADWorx Equipment Editor: 2020 (20.00.00)

Description: CADWorx Plant Design Suite is an integrated and complete software series for plant design that provides intelligent drawing/database connectivity, advanced levels of automation, and easy-to-use drafting tools. The comprehensive series of design tools includes equipment, process and instrument diagrams, and design review, plus automatic isometrics and bills of material.

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System Requirements

AutoCAD

CADWorx is compatible with the following AutoCAD versions:

- AutoCAD 2020 (64 bit)
- AutoCAD 2019 (64 bit)
- AutoCAD 2018 (64 bit)
- AutoCAD 2017 (64 bit)

CADWorx is compatible with the following Autodesk vertical products (2020-2017):

- AutoCAD Mechanical
- AutoCAD Electrical
- AutoCAD Architecture
- AutoCAD MEP
- AutoCAD Civil 3D
- AutoCAD Map 3D



CADWorx is NOT compatible with:

- AutoCAD LT
- Autodesk Inventor
- Autodesk Revit

The operating system compatibility is based on AutoCAD or the Autodesk vertical product used:

- AutoCAD 2020: Windows 10
- AutoCAD 2019: Windows 10
- AutoCAD 2018: Windows 10
- AutoCAD 2017: Windows 10

NOTES

For the most up-to-date AutoCAD system requirements, check the Autodesk website.

Important: Beginning with Windows 10 and Oracle 12.1.0.2, Microsoft and Oracle will enforce the Internet Host Table Specification RFC 952 which mandates that component hostname labels can contain only alphanumeric characters. Hostnames using underscores ('_') are not allowed. Refer to Oracle Support Articles 1603775.1 and 1957895.1 and Microsoft KB 101785.

BricsCAD

CADWorx is compatible with the following BricsCAD versions:

- BricsCAD 20
- BricsCAD 19.1.11
- BricsCAD 18
- BricsCAD 17.2

The operating system compatibility is based on BricsCAD used:

- BricsCAD 20: Windows 10
- BricsCAD 19.1.11: Windows 10
- BricsCAD 18: Windows 10
- BricsCAD 17.2: Windows 10

Version Compatibility

For up-to-date information on the software compatibility of this product in a standalone or integrated environment, please refer to the Compatibility Matrix on the Intergraph PPM Support Web site at <https://smartsupport.intergraph.com/>.

Log on and perform the following steps:

1. Click the **View Downloads** tab.
2. Click the **Product Compatibility** link under **Useful Links** on the right side.
3. On the **PPM Compatibility Matrix - Product Report** page, from the Select Product list, select CADWorx.
4. From the **Version** list, select the version of CADWorx.



Documentation

General

Use the Help menu to access the Help files and Printable Guides for this product. For the latest support information for this product, use a World Wide Web browser to connect to <http://support.intergraph.com>. Also, you can submit any documentation comments or suggestions you might have on the Intergraph support site.

Printed documentation is not available for separate purchase.

Training

To register for training on Hexagon products, call Training Registration at (800) 766-7701 in the U.S. Outside the U.S., call (256) 730-5400 or contact your local Hexagon office.

For current information on training, use a World Wide Web browser to connect to <http://www.intergraph.com/ppm/training/>.

Customer Support

For the latest Support Services information for this product, including solutions to known software issues, use a World Wide Web browser to connect to <http://support.intergraph.com/>.

To open service requests outside the U.S., please contact your local Intergraph office.

CADWorx New Features

New Features in CADWorx Plant 2020

This version of CADWorx Plant features the following new enhancements:

- CADWorx Plant is now compatible with BricsCAD v20 and AutoCAD 2020.
- You can now add the slope of a pipe to the tool tip data.
- P&ID VIEW Enhancements
- P&ID VIEW will now accept different databases from CADWorx P&ID and CADWorx Plant.
- P&ID View has been enhanced to show the percentage linked and the percentage of matched properties of linked items in both the on-screen dialog and the exported reports to help track project status and confirm the P&IDs and 3D model are consistent.
- P&ID View now lists line numbers to help distinguish components and allow for the routing of missing lines in the 3D models.
- CADWorx Plant now supports user shapes in P&ID VIEW to help with consistency checks between the P&ID and the 3D model.
- C2PCF has completely replaced the C2OUT command and can be called from a script or the new ribbon bar icon. C2PCF has also designated a specific attribute for CAESAR II restraint types.



- In order to give more control of the number of items shown in the component list, the user can now configure the maximum number of sizes Up and Down that are visible in the component list.
- Clash Management has added line number information to help the user in identification and deciding on the status of the clash. This information is available as a part of the on-screen dialog and the clash export.
- CADWorx Plant now uses Smart License for product authentication and licensing.
- You can now use filters when running the -ISOGENBATCH command.
- Pipes with special end types can now be accumulated for ISOGEN output.
- The -ISOGENOUT command now includes a line number option.
- There is a new ISOGEN sketch reference setting in the Spec.
- The Bills of Materials report can be written to network locations to help facilitate large projects who utilize network solutions.
- CADWorx Help and User Guides have moved online.
- Implemented weight and center of gravity calculation, and bill of material functions shared between CADWorx Plant, Structure, and Equipment.

New Features in CADWorx Spec Editor 2020

This version of CADWorx Spec Editor features the following new enhancements:

- CADWorx Spec Editor has been upgraded to support the newest versions of CADWorx software.
- Isogen Message and Type can be catalog default and spec component properties.

New Features in CADWorx P&ID 2020

This version of CADWorx P&ID features the following new enhancements:

- CADWorx P&ID can now apply spec changes to tag values.
- Improved the functionality of P&ID VIEW by allowing CADWorx P&ID and CADWorx Plant to use different databases.
- CADWorx P&ID now uses Smart License for product authentication and licensing.

New Features in CADWorx Equipment 2020

This version of CADWorx Equipment features the following new enhancements:

- New and improved user experience with a ribbon bar, model and library explorers, and property panes.
- Improved tools to manage properties for both custom and primitive shapes.
- CADWorx Equipment Editor - A new software solution for creating and managing libraries of equipment definitions.
- Implemented weight and center of gravity calculation, and bill of material functions shared between CADWorx Plant, Structure, and Equipment.
- Equipment images can now be added to the definition.
- You can now import legacy equipment (CADWorx 2019 and earlier) from dwg files and attached xrefs.
- User custom data is now supported for property types, hierarchy, and inheritance.



- Use the new managers to create and maintain property catalogs for:
 - Layers.
 - Groups.
 - Materials.
 - Insulations.
 - Refractories.
 - Tracings.
 - Primitive shapes.
 - Custom shapes.
- PV Elite integration (import and export) has been improved to utilize newly developed PV Elite integration APIs.
- CADWorx Equipment now uses Smart License for product authentication and licensing.

New Features in CADWorx Design Review 2020

The following changes have been made to CADWorx Design Review for this release:

- The Properties Palette now displays the elevation of a component.
- CADWorx Design Review (.CWDR) files now display xrefs in the File Manager palette.
- The Orbit operator can now use a selected component, or components, as the Orbit reference point.
- The Operators Panel now displays keyboard shortcuts for operators.
- Enhancements to Snap point and Measure tools allow their use on legacy components.
- CADWorx Design Review now uses Smart License for product authentication and licensing.
- The View Cube has been improved and modernized to offer additional functionality.
- CADWorx Design Review can now read multiple file formats with property intelligence to help with collaboration from many different sources.

The following features are available for CADWorx Design Review Professional:

- Point Cloud files are now supported (PTS, PTX, XYZ).
- The HOOPS Streaming File (.HSF) file type now displays xrefs in the File Manager palette.
- CADWorx Design Review can now combine two IFC files into a single IFC file.
- When exporting or publishing a VUE (*.vue) file, an MDB2 file is created with the VUE file intelligence and component data.
- Exporting an IFC file (*.ifc) now generates a log file containing a summary of the export.
- IFC export now supports new Structure connection components.
- CADWorx Design Review Pro can export files containing data in non-English languages.

New CADWorx Equipment Editor 2020

CADWorx Equipment Editor is a program that works with <aProduct> Equipment to make managing equipment libraries more robust and easy to navigate. The CADWorx Equipment Editor views, edits, and creates catalog data for equipment libraries. CADWorx Equipment Editor offers tools to build equipment definitions that include both custom and standard components. Customize equipment definitions by uploading images of the equipment to the library.



- Build components for use in equipment definitions and define equipment assemblies from component parts.
- Accumulate equipment definitions into libraries.
- Upload an image of your equipment to the definition. For more information, see Define Components.
- Supports Imperial, Metric, and Metric-inch units of measure.
- View equipment definitions in a tree view using the Library Explorer feature.
- Use the new managers to create and maintain property catalogs for:
 - Layers.
 - Groups.
 - Materials.
 - Insulations.
 - Refractories.
 - Tracings.
 - Primitive shapes.
 - Custom shapes.
 - Nozzle data.
 - Structural data.
- Pre-made templates and sample libraries are included in the download.



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Intergraph Corporation
305 Intergraph Way Madison,
AL 35758

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