

CADWORX® & ANALYSIS SOLUTIONS

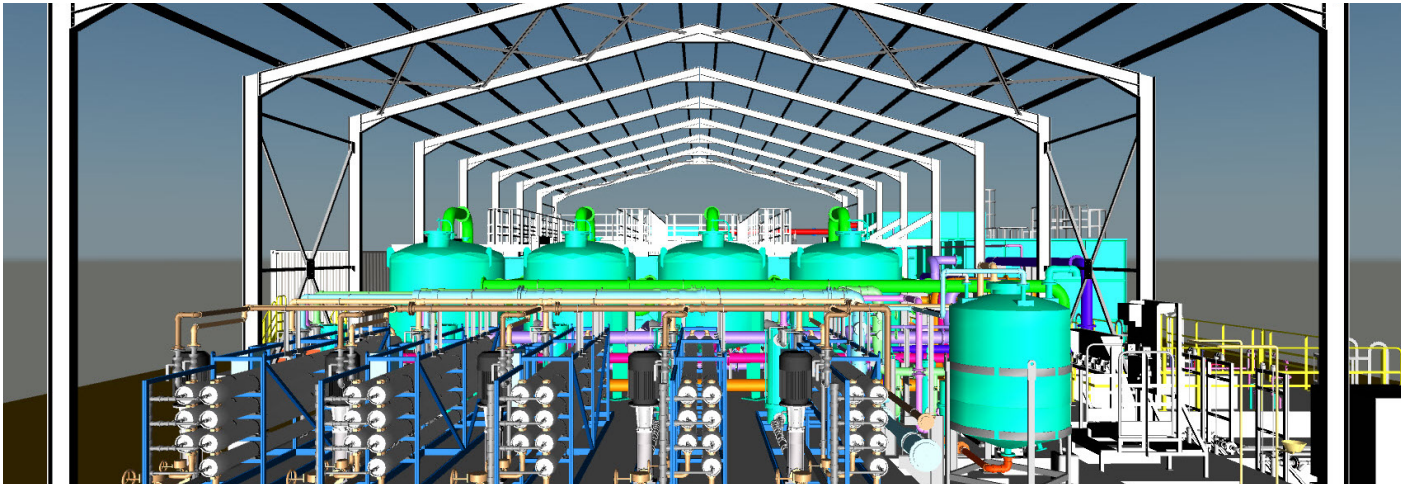
USING CADWORX IN THE WATER INDUSTRY





CADWorx® is perfect for the water industry whether you are involved with water treatment, water distribution, water purification, consumer water production, ballast water cleaning on ships and many other situations which involve skid type piping arrangements in confined spaces.

If you need to control the quality of water, ensure water is used on demand, guarantee operation within capacity, prepare purified water from a potable source or engage in any other aspect of the water industry and are involved with the various skids inside a plant, CADWorx is the ideal tool.



Model courtesy of Improchem

STANDARDS AND SPECIFICATIONS

Piping specifications for any material can be easily created to suit required standards, including non-metallic pipes such as concrete or plastics. Out of the box available specifications not just for carbon and stainless steel, but also for ductile iron, PVC and FRP piping. In addition, manufacturer specific catalogs and specifications are available for free download. Any 3D block can be added to the CADWorx specifications – ensure clash free designs by using accurate representations for items such as flow meters – including items with multiple ports/connections. You can also overlay exact 3D representations of connections such as clamps or couplings to ensure accuracy in even the tightest spaces.

MODIFICATION

Use grips on the pipes to make quick modifications. Intelligent connections mean that connectivity is maintained throughout and inline items can be moved easily whilst keeping attached items (such as flanges, gaskets etc.) connected where needed. Change pipe size or specification with ease by simply selecting the items to change and picking the new size/spec. Connectivity is maintained automatically. During any modification, pipe supports are also automatically updated, perhaps picking the appropriate size beam clamp or adjusting the length of a rod on pipe supports connected to beams or the floor.

MODELLING

Quickly and easily model equipment such as tanks and pumps using CADWorx Equipment's parametric functions or use vendor 3D models and apply CADWorx intelligence to nozzle

connections. The pipe router provides capabilities for sloped and skewed pipes to easily route pipes at any angle, rise or fall. Automatic route suggestions further increase productivity when connecting to nozzles.

Use CADWorx Structure to model steel structures, including stairs, ladders and platforms with handrails. For the buildings, the optional BricsCAD® platform with the BIM add-on module can be used for BIM design of the various buildings required in a water treatment plant.

CADWORX FEATURES

Specification flexibility – non-metallic pipes as well as steel and ductile iron provided

Parametric equipment modelling

Fast pipe routing with auto-connect

Easy sloped/skewed pipe routing

Steel structures

Steel assemblies – stairs/ ladders/handrails

Grip stretch/move modifications

Change size/spec

Automatic pipe support updates during modification

Automatic isometrics using Isogen®

Automatic layout drawings using OrthoGen*

*OrthoGen is a cost add-on for CADWorx



ABOUT HEXAGON

Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Our industry-specific solutions create smart digital realities that improve productivity and quality across 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 3.8bn EUR. Learn more at hexagon.com and follow us @HexagonAB.