



Comos Plant Modeler – integrated 3D engineering without media disruption

MicroStation*-based all-in-one platform integrating P&ID, isometrics and 3D modelling with central pipe spec and document management

The **Comos Plant Modeler** is an innovative software solution for 3D detail engineering developed by **Comos Industry Solutions**. This MicroStation*-based module focuses on detail pipe planning and provides bidirectional isometrics / 3D engineering without media disruption. Via menu bars based on pipe specs, the user is able to access the object-oriented pipe specs of the **Comos PipeSpec Designer**. Finding the appropriate connector materials and mounting techniques is rule-based (e.g. for counter flanges, gaskets, bolts, etc.). Detail engineering is thus simplified while quality is substantially increased. Additionally, **Comos Plant Modeler** provides the platform for the integration of all relevant plant engineering documents (HVAC, mounting techniques, cable routes, conveyor techniques, steel construction, etc.) into the **Comos** document management system.

Key benefits for you:

- “ Integrated pipe spec management ”
- “ Merging of P&ID, isometrics and 3D modelling without media disruption ”
- “ Bidirectional isometrics / 3D engineering ”
- “ Controlled incorporation of the isometrics as-built documentation into the 3D pipework model ”
- “ Integration of all 3D layout documents into the Comos document management system ”
- “ Comos Plant Modeler supports all MicroStation* CAD functionalities ”
- “ Comprehensive material take-off (MTO) and bill of materials (BOM) management ”

Comos Plant Modeler

Key features at a glance:

“ With the integrated, object-oriented pipe spec management you can create new pipe specs based on stored industry standards. The **Comos Plant Modeler** provides parts catalogues which allow straightforward pipe spec creation by means of drag and drop. ”

“ Perfect integration of P&ID, isometrics and 3D modelling without media disruption, thanks to the inherently consistent, standardised plant and data structure. ”

“ Complete integration and alignment of process and construction data within the workflow, with status management between P&ID and 3D engineering ”

“ Bidirectional isometrics / 3D engineering; design intelligent and editable isometric diagrams directly from the 3D model ”

“ Controllable updates of the as-built 3D model via modification of the isometric diagrams ”

“ Integration of all 3D layout documents and drawing designs (views, sections, etc.) into the **Comos** document management system ”

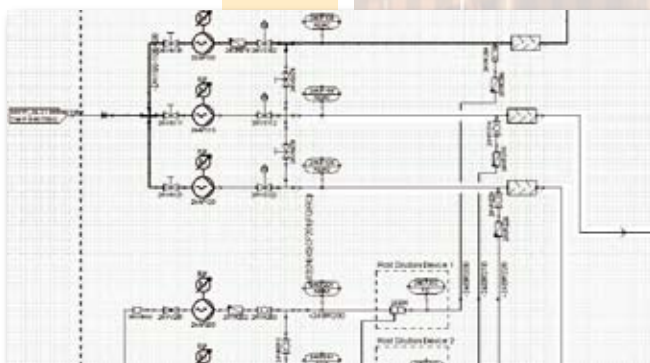
“ Project and plant revision management with redlining function and comprehensive history administration ”

“ Centralised material take-off (MTO) and bill of materials (BOM) management, and generation and administration of delta lists across all disciplines ”

* MicroStation is a registered trademark of Bentley Systems, Inc.



MicroStation* 3D model of sludge pumps



Comos P&ID of the sludge pumps



MicroStation* 3D model of a wastewater treatment plant belonging to PWT Wasser- & Abwassertechnik GmbH



More information, as well as contact data for our company locations around the world, can be obtained here:

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A Siemens Business

As a world-leading provider of comprehensive Life Cycle Management systems, **Comos Industry Solutions** offers professional software solutions and services. The integrated **Comos** concept is designed to cater for both customer-specific requirements and established industrial processes. The individual modules can be used as either stand-alone software or as a complete software suite. **Comos** is the complete solution for end-to-end basic and detail engineering processes, catering for all industrial plant life-cycle phases. The **Comos** philosophy, products and services have long been trusted by plant designers, operators and contractors.

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