CAD Schroer

ADD-ON

M4EDUSA

P&ID

Process and Instrumentation Diagrams
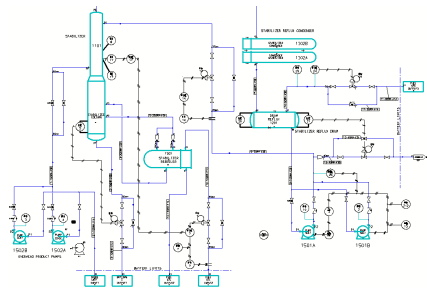
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MEDUSA4 P&ID™
The Complete Solution for Piping and Instrumentation Diagrams

MEDUSA4 P&ID is a professional system for creating intelligent piping and instrumentation diagrams (P&IDs). MEDUSA4 P&IDs can contain all the technical information required to describe industrial processes, and can be used to form the basis of 3D plant designs.

Simple and Powerful

The MEDUSA4 P&ID software offers powerful tools for creating and editing P&ID diagrams. Customisable symbol libraries make it quick and easy to design entire process systems using intelligent lines and symbols.

MEDUSA4 P&ID easily handles complex diagrams

Multi-Sheet Support

MEDUSA4 P&ID contains specialised tools for intelligently connecting equipment, piping components and instrumentation across different drawing sheets, clearly structuring complex information.
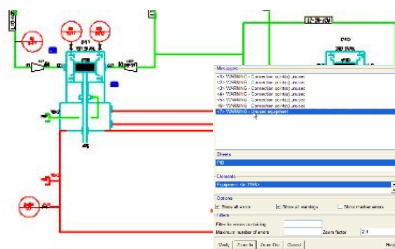
Dynamic Design and Editing

The user-friendly, customisable P&ID tool tray provides access to dynamic and configurable tools for creating lines, determining line crossovers and line flow direction; for filtering, loading, placing, manipulating and editing symbols; for adding branch, symbol and line bore texts; for placing on- and off-sheet connectors; and for creating vendor, responsibility, and pipe specification break symbols. Move selected symbols dynamically, and the system will automatically maintain existing connections.

Intelligent Diagrams

MEDUSA4 P&ID provides a large selection of process and instrument supply line types, as well as non-labelled lines. The software offers catalogs of intelligent, customisable symbols for P&ID in-line equipment and instrumentation, including dedicated collections of symbols for creating flow diagrams for process plants in accordance with DIN EN ISO and ANSI. You can position all types of symbols anywhere on the diagram, and include important process information (such as pipe bore size and specification) using freely configurable line and symbol properties.

Design Verification

The design verification tool supports your quality assurance processes, allowing you to automatically check your diagrams for design errors against P&ID-specific design rules. The tool also supports multi-sheet scanning. Errors are displayed in a dialog and highlighted in the design itself.
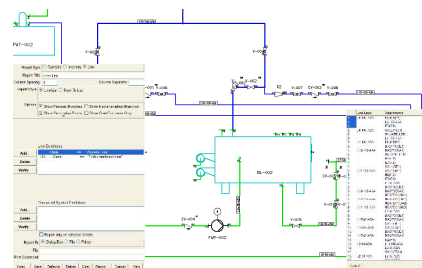

The design verification tool provides quality control by checking P&IDs against design rules

Reuse of P&ID Data in 2D and 3D Designs

The intelligent diagrams created with MEDUSA4 P&ID can be used in your 2D and 3D design environments. Tight integration with all MPDS4 add-on modules means that your P&ID diagrams can be used as the basis of MPDS4 3D designs and subsequent 2D layouts.

You can cross-check your P&IDs against the 3D world, and then automatically load those P&ID components not yet included in your 3D plant design into the appropriate position. In MPDS4 PIPING, for example, you can route the planned pipes in 3D, then cross-check them against your P&ID data. This ensures that the resulting 2D drawings or 3D models use only the exact number and type of components contained in your P&IDs.

MEDUSA4 P&ID makes it quick and easy to create and customise reports and parts lists

Parts Lists and Reports

You can easily create, customise, export or print reports and parts lists from the design data contained in your diagrams. In MEDUSA4 reports can be generated in PDF, XLS, RTF, HTML as well as CSV formats.

Software Requirements

- MEDUSA4 Basic or P&ID Package

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