

ADD-ON

MEDUSA

PIPING DESIGN

Industrial Piping Solution

www.cad-schroer.com

MPDS4 PIPING DESIGN™

The Industrial Piping Solution

MPDS4 PIPING DESIGN is an add-on module providing a complete professional industrial piping solution with a very rich feature set. The module offers a large number of extensible libraries of catalog components to a variety of industrial standards. It is pipe specification driven, and fully integrated with M4 ISO for the automated production of piping isometrics.

Creating and Editing Pipes

MPDS4 PIPING DESIGN offers intelligent routing functionality and powerful tools for dynamically loading, positioning, replacing and analysing piping components, manually or automatically. The design process is pipe specification driven, ensuring that only components from the same specification can be connected.

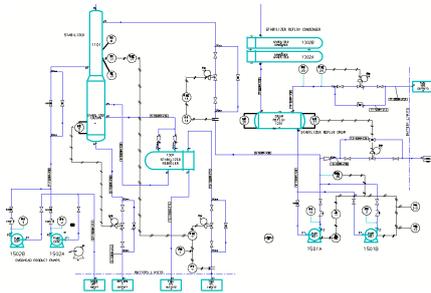
Catalog-Based Design

The catalog component libraries provided with MPDS4 PIPING DESIGN help you cut down on errors, allowing you to quickly and consistently design complete process systems based on company-specific standards.



The auto routing tool calculates all possible routes between connections and automatically creates a pipe along the chosen route. All affected pipes are automatically re-routed.

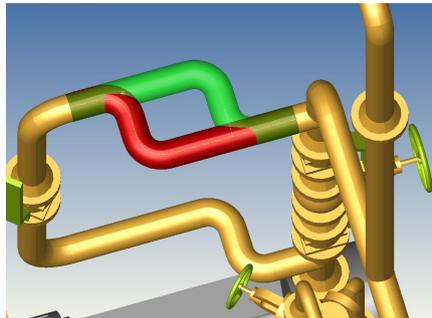
The catalogs contain many different classes of pipes, valves and supporting components. They are user extensible and customisable, with a central database ensuring consistent delivery of up-to-date catalog data to your design teams.



MEDUSA4 P&ID is an optional application for creating process and instrumentation diagrams

P&ID-Driven Design

MPDS4 is tightly integrated with the optional MEDUSA4 P&ID module. Your P&ID diagrams can be used to form the basis of MPDS4 layouts. You can cross-check your P&IDs against the 3D world, and automatically load those P&ID components not yet included in your 3D plant design in the appropriate position.



Dynamic drag & drop pipe editing automatically maintains connections with other components as pipes are moved.

Hard and Soft Interference Checking

Interference checking functionality provides users with a quick overview of overlapping components. Hard interference checking flags up overlaps between selected areas and components, while soft interference checking flags up insufficient space between individual components.

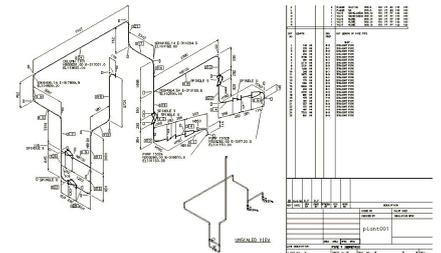
Automatic Parts List Creation and ERP System Integration

Automatically created parts lists can be exported (to CSV, for example) to gain a quick overview of an entire project.

The software can be integrated with your ERP system, allowing additional information, such as component cost or weight, to be displayed, and linking plant design with other corporate processes, such as project costing and procurement.

M4 ISO Piping Isometrics

MPDS4 PIPING DESIGN comes with an interface to M4 ISO, CAD Schroer's solution for automated production of piping isometrics. M4 ISO eliminates the need to manually create and edit isometric drawings, saving an immense amount of time, and reducing pipe fabrication and on-site construction faults. MPDS4 PIPING DESIGN allows users to automatically augment the produced isometrics with 3D views of the pipe assemblies to be constructed, as well as parts lists.



Users with the M4 ISO software can automatically produce piping isometrics with a 3D view of the pipe assembly, and with complete parts lists.

ROHR2™ Pipe Stress Analysis

The optional ROHR2 interface allows users to conduct static and dynamic analysis of the complex piping systems created in MPDS4 with their ROHR2 software.

Software Requirements

- MPDS4 Basic Package
- M4 ISO (automated isometrics)
- ROHR2 (pipe stress analysis)



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