

# MISO

## Piping Isometrics

[www.cad-schroer.com](http://www.cad-schroer.com)



# M4 ISO

## Automatic Piping Isometrics for Fabrication and Installation

M4 ISO is the ideal tool for automatically generating unscaled pipe isometric drawings from your 3D design data. The intuitive software uses pipework data from 3D CAD and plant design systems to automatically create 2D pipe isometric drawings, along with complete bills of material and pipe cutlength and spool lists for fabrication and transport considerations.

M4 ISO can be used in automated or in manual mode, giving users more detailed influence over outputs. Its open data format provides a high degree of flexibility, allowing companies to configure their isometrics in line with corporate or projectspecific requirements. Users can change their isometric drawing styles, as well as customise the system's templates. M4 ISO allows design engineers to include a 3D view of the relevant pipe segment with each isometric drawing, providing a welcome visual aid for fabricators and installers alike.



## Automatic Mode

In automatic mode, M4 ISO generates and saves the required piping isometrics and related parts lists automatically, ready for fabricators and installers.

## Manual Mode

Where specific formats or views are required, M4 ISO allows users to manually influence the output. A preview is provided for each isometric drawing, and users can change various settings, including the North angle. They can also edit, delete or remove note text from the diagram.

## BOM and Parts Lists

M4 ISO automatically generates configurable bills of material from the piping data generated by the 3D CAD or plant design system. BOMs can be placed directly onto an isometric drawing or exported to Excel, for example, for downstream use.

## Pipe Cuts

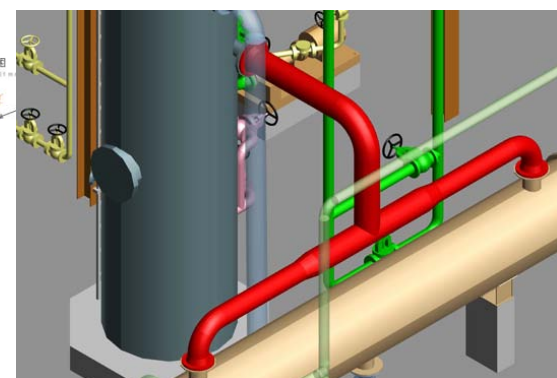
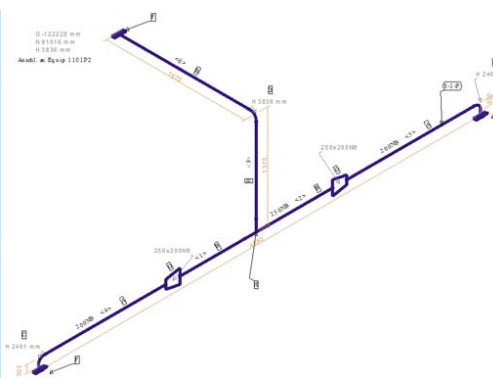
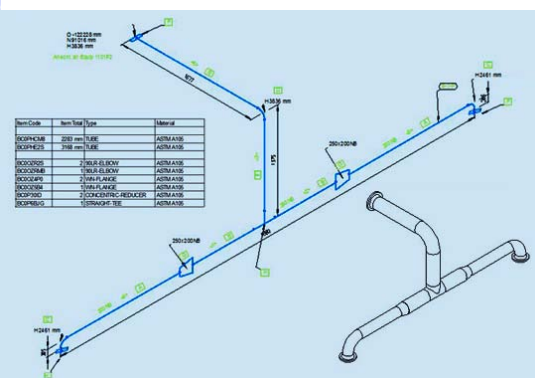
M4 ISO generates detailed cut-length lists, which are lists of individual cut pieces of pipe, required for fabrication by the manufacturer.

## Pipe Spools

M4 ISO also generates a list of spool pieces, which are fully welded pipework delivered as a single piece. The system automatically recognises spool boundaries where components are not welded together, e.g. flanged connections or valves.

## Notes on Pipework

M4 ISO recognises any notes attached to the pipework in the 3D designs and positions them in the appropriate place on the 2D isometric drawing.



## Diagram Styles

Users can choose between a variety of different styles prior to automatically generating their isometrics. Each style defines a different level of detail, including the amount of information displayed for fabrication, and whether or not a 3D view of the pipe segment is included.

## Templates

M4 ISO uses standard templates on the basis of which the piping isometrics are generated. These templates can be customised in line with specific corporate requirements.

## Configurable Styles

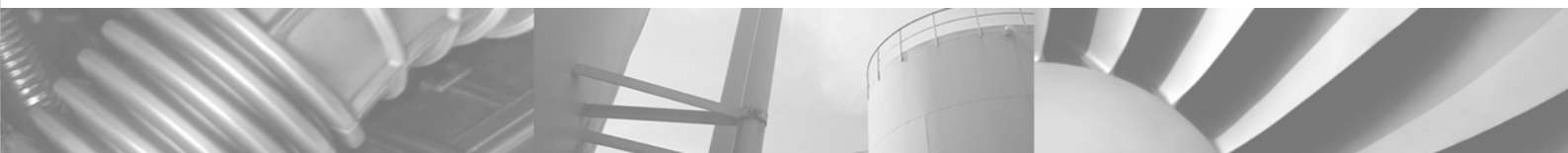
M4 ISO allows users to configure their own isometric drawing styles according to company or project-specific requirements.

Users can change the North angle, as well as the maximum number of components per drawing. Line styles, fonts, colours or the layer to be used can also be changed.

Users can also customise the format of the bills of material, and cuts and spools lists.

## Open XML Format

M4 ISO uses the flexible, open XML data format – ISOX - to import piping data from 3D CAD or plant design systems. XML is based on a free, open standard, and defines a set of rules in an easily accessible format, readable by humans as well as machines. Its open, simple structure makes it easily configurable and ideal for data exchange between different systems. In addition to ISOX, M4 ISO also supports a number of other common formats for creating piping isometrics.





## Contact us

### United States

CAD Schroer US, Inc.  
34 Rand Place  
Pittsford, NY 14534

Tel.: +1 866-724-7637  
E-Mail: [info@cad-schroer.com](mailto:info@cad-schroer.com)  
Web: [www.cad-schroer.com](http://www.cad-schroer.com)

### United Kingdom

CAD Schroer UK Ltd  
Sheraton House, Castle Park  
Cambridge CB3 0AX

Tel.: +44 1223 850942  
E-Mail: [info@cad-schroer.com](mailto:info@cad-schroer.com)  
Web: [www.cad-schroer.com](http://www.cad-schroer.com)