



# M4PLANT

Plant Design

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



# M4 PLANT

## Meeting the Challenges of 3D Plant Design

The M4 PLANT plant design software is scalable, modular, multi-user capable, user friendly, integrates with existing systems, and easily handles huge amounts of data. M4 PLANT provides a flexible plant assembly solution regardless of project size. Its multi-user relational database approach provides a rules-based, specification-driven 3D design environment for all the major plant disciplines, including P&ID driven process piping. It provides detailed engineering review capabilities as well as external 3D walk-through tools for project stakeholders.

M4 PLANT offers extremely high productivity through its wide range of specialised toolsets for design tasks such as piping layout, steelwork design and HVAC duct routing, all driven by extensive, and extensible, component libraries supplied with the software. Automatic consistency checking and interference checking play a vital role in quality assurance. Automatically generated reports, BOMs and parts lists can be used to monitor project profitability. Boasting an integrated advanced drafting environment, M4 PLANT delivers all the 2D drawings required for downstream manufacturing. A large number of interfaces offer easy data exchange with other 2D and 3D data formats, as well as ERP systems integration.



## Large-scale 3D Plant Design

Use M4 PLANT for large-scale, rules-based, multi-user, cross-discipline plant assembly directly in 3D. The software offers a comprehensive range of add-on modules for all the main plant engineering disciplines, including Piping, Steel, Hangers & Supports, P&ID, HVAC Ducting, Mechanical Handling, and Electrical Design.

## Global Collaboration

Distributed design teams can collaborate on the same plant project via a multi-user, version-controlled database.

## Quality Assurance

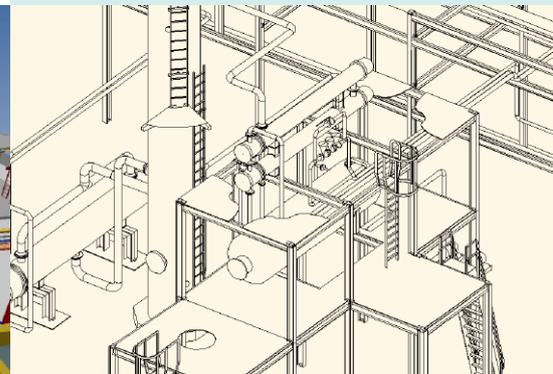
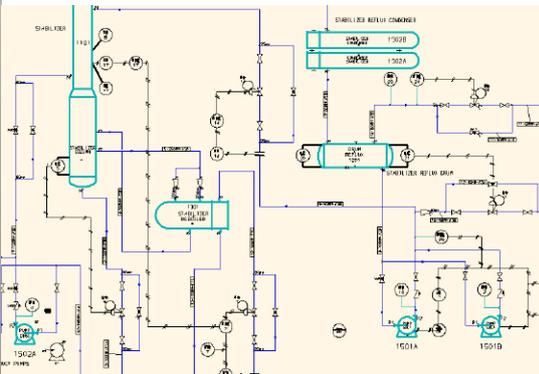
M4 PLANT drives up project quality by offering integrated consistency and interference checking. The software automatically detects clashes between components, or obstructions in clearance spaces.

## Project Data and Engineering Content Management

M4 PLANT provides central project and database administration, version and user management, with a Project Data Control (PDC) environment for effectively managing multiple project databases and the engineering information they contain.

# M4PLANT

OVERVIEW



## Catalog-driven Design

M4 PLANT's customisable libraries of 3D parametric catalog components support rules-driven, standard-compliant, accurate design. Users specify, place and auto-route components, which are automatically modelled in 3D. An optional 3D Component Editor allows designers to create custom parametric catalog components.

## Downstream Data

M4 PLANT automatically generates BOMs, parts lists, reports and 2D drawings directly from the plant design. There are interfaces to ISOGEN™, pipe stress analysis software, ERP and EDM systems.

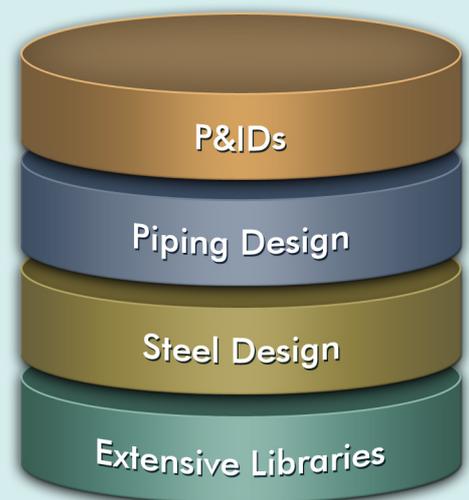
## 2D/3D Integration

M4 PLANT's integrated drafting software automatically generates editable 2D views of 3D data. Imported 2D layouts can form the basis of 3D buildings. Use 2D P&IDs to drive 3D Piping. High quality 2D/3D and raster image interfaces are also available.

## 3D Walk-throughs

Use M4 PLANT for design reviews and 3D plant fly-throughs, ideal for customer presentations. Export e-mailable plants for clients using the separate M4 REVIEW software for walk-through reviews and annotations.

## PLANT DESIGN SOFTWARE





## Contact CAD Schroer

### **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)