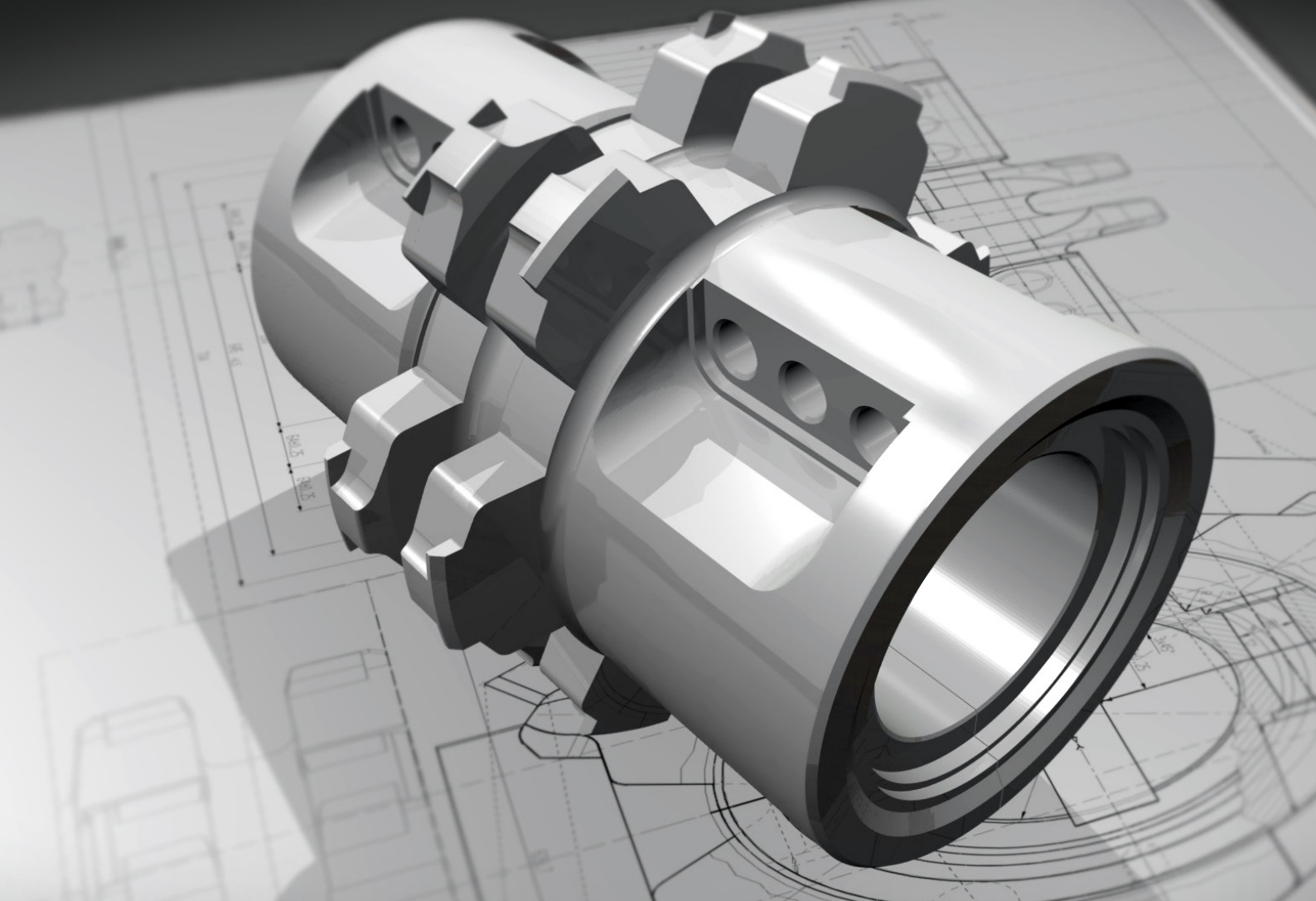


# M4DRAFTING

## THE DESIGN AUTOMATION SUITE

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



# M4DRAFTING

## The Comprehensive Design Automation Suite

M4 DRAFTING, the fourth generation of the globally renowned M4 engineering product suite, offers superior design automation within a highly flexible systems environment. Its powerful software tools were developed to work the way engineers do, helping you get product to market faster, and designs to customers more quickly and efficiently.

The concepts behind this fourth generation powerhouse were designed to free the engineer's creativity while quickly reaping corporate benefits, from the most effective use of in-house expertise with minimal training overheads to significant cost- and time-savings when dealing with supplier or customer data, resulting in getting a high quality product – and service – to market faster.





## Intuitive Design for Maximum Productivity

M4 DRAFTING includes a full range of professional drafting tools, accessed through a user interface built for speed and intuitive design, helping to reduce project and training times, and bring quality product to customers more quickly.

Highlights include the innovative Dashboard for fast, context-sensitive editing; customisable easy-access tool trays, and a Structure Tree, which allows users to navigate effectively through any complex design, selecting elements for editing without having to break up the existing design structure.

## Competitive Advantage

"M4 DRAFTING has grown with our demands and those of our customers. Its powerful tools for colour raster editing, high quality DWG import and quick and easy drafting and 3D help us cut lead times and reduce pre-sales overheads."

William Marques, Managing Director,  
CU Phosco Lighting



## Power Selection Tool

The Power Selection Tool makes it easy to quickly restructure imported, non-structured data to conform to company standards. Intuitive drag and drop functionality and click and drag auto placement of even the most complex dimensions allow designers to focus on the creative process without getting tied up in tedious or repetitive tasks.

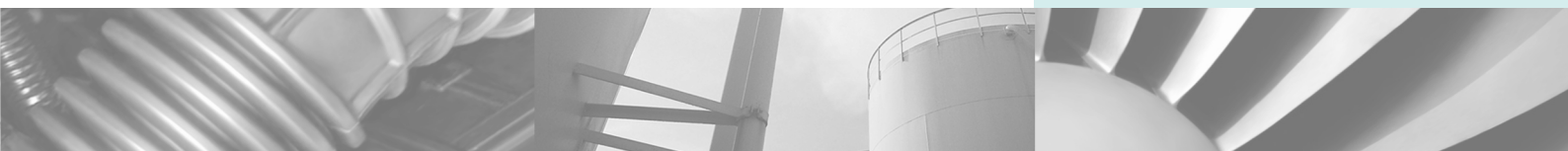
## Central Style and User Administration for Quality Assurance

Administrators can develop and deploy a range of corporate styles, automatically enforcing company and international quality standards. By determining user access permissions, Administrators can allow individuals to view and edit pre-defined element and object properties within clearly defined limits.

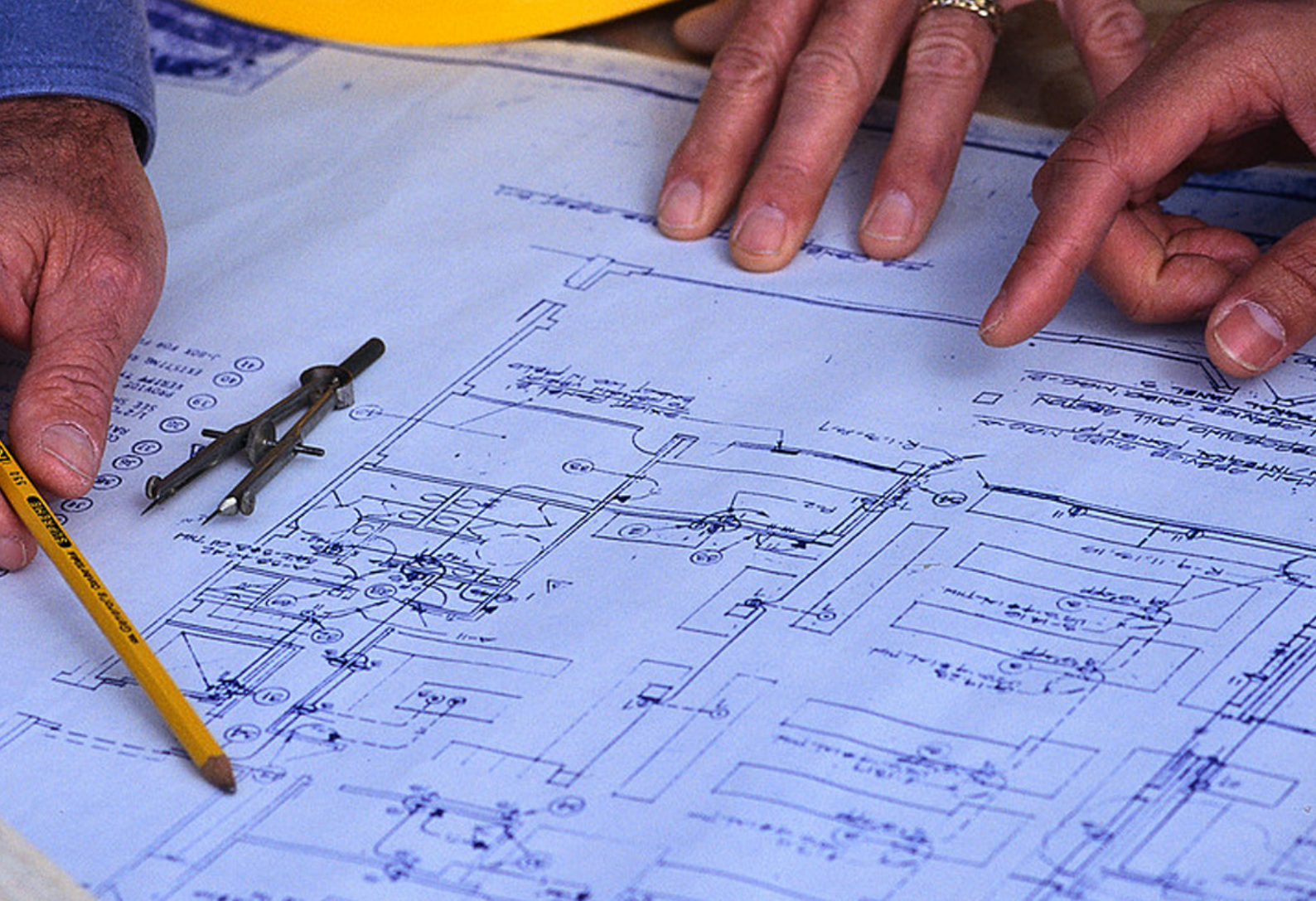
## Innovation

"The move to M4 DRAFTING was a great leap forward for Sulzer Pumps. The comprehensive design automation package, modern user interface, and a huge raft of productivity tools provide us with the efficiency and flexibility we need to meet new challenges and develop world class pumping solutions."

Hansjörg Büchler, Chief Information Officer,  
Sulzer Pumps







# Features

## Supporting Your Design Expertise

M4's familiar drafting tools allow you to easily create and dimension your geometry. Its parametric tool tray then provides access to all the additional functionality needed to parameterise your design.

M4 DRAFTING 3D uses standard 2D tools to define 3D models, meaning you don't have to be a 3D expert to use it. It offers enhanced tools for editing 3D models, as well as an integral viewer for interacting with models by zooming, spinning and panning. Training times are minimised, and your company gains greater flexibility when deploying its resources.

M4 DRAFTING is supported on all major hardware and operating systems, comes supplied with its own customisation tools, and a DXF/DWG interface for import and export of third party sheets and symbols.





## Design Process Automation

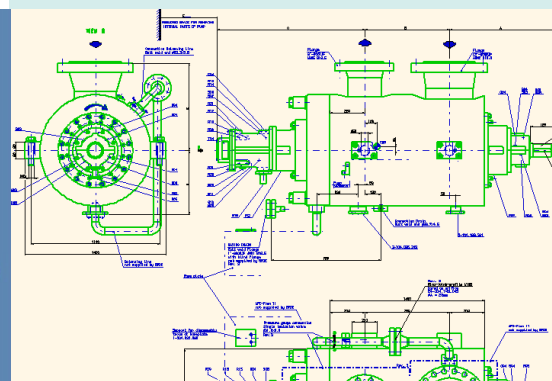
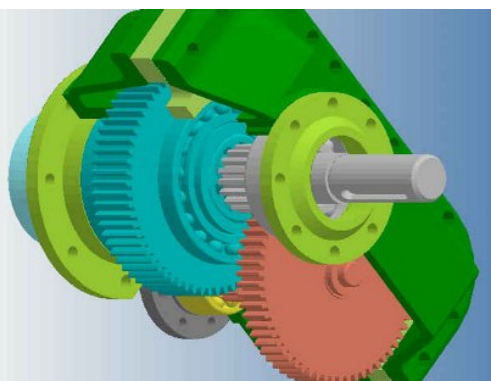
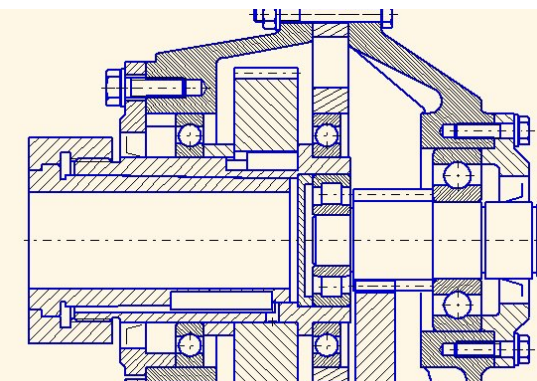
M4 DRAFTING PARAMETRICS is an add-on module, which allows companies to achieve sophisticated, bespoke process automation.

The M4 DRAFTING PARAMETRICS module offers extremely powerful parametrics (variational geometry) functionality, designed to achieve significant productivity and efficiency gains throughout your business and its supply chain by automating many manual design, simulation and testing processes.

## Design Objects

M4 DRAFTING's Design Objects functionality is a powerful tool which combines 2D ease of use with 3D design capabilities for modelling assemblies. Design Objects allow designers to achieve a top-down and bottom-up assembly-based design process. They speed up the work of project teams by automating routine operations and supporting concurrent design. Design Objects significantly extend the concept of drawing-based design, allowing engineers to work with familiar components, views and assemblies.

# M4DRAFTING INTERFACES



## Data Management

MEDInfo allows you to administer and update technical documents and data (bills of materials, projects, designs etc.) during all phases of the product development cycle.

## Integrated CAD parts library

MEDParts, the industry-proven integrated standard CAD parts library for M4 DRAFTING, offers an extensive range of symbols for the mechanical engineering, pipeline construction and steel-framed building construction industries.

## Unlock the Value of Existing Data

MEDRaster Colour is a M4 DRAFTING module which allows you to incorporate, edit and store colour and monochrome raster data in your designs, and provides combined raster and vector data support.

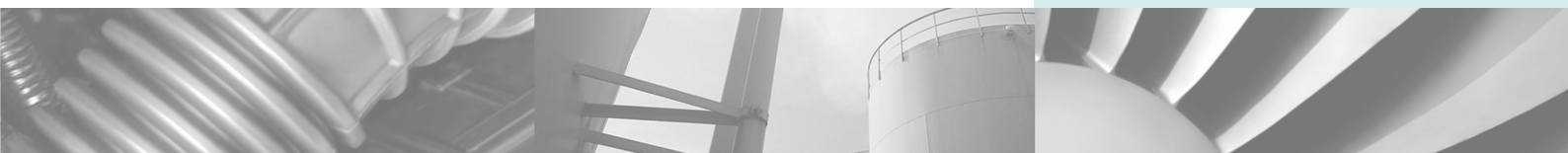
## DXF/DWG Import and Export

M4 DRAFTING's integrated CAD conversion functionality, CADConvert, allows you to easily import and export DXF and DWG files with excellent results. An intuitive user interface allows you to create your own conversion mappings.

## Productivity

"Alongside higher productivity, our investment in M4 DRAFTING offers us greater automation capabilities, and the ability to standardise our CAD landscape across our group of companies. Integration issues should also become a thing of the past."

Mr Bruno Ehrle, Head of Technology,  
OERTLI Werkzeuge AG





# Packages

## M4 DRAFTING Mechanical and Design Engineering

The M4 DRAFTING product range is a modular one, with M4 DRAFTING Basic at its core. We offer three M4 DRAFTING packages, from basic to ultimate, as well as many additional add-on modules to meet your specific requirements.

Our software development experts are here to make sure you get the most out of your systems, whether this means developing customisations to fully automate repetitive design tasks, interfaces to ensure that your systems can talk to each other and data flows freely while being managed consistently, or entirely new applications to serve specific needs.



## Basic Package

- Complete 2D Drafting Functionality
- SMART Drafting Tool
- TEXT TRANSLATOR
- Sheet-based Mechanical Design Objects
- Diagram Symbol Loading
- MEDRaster Colour View
- CADConvert DXF/DWG Interface
- API Customisation Tools (Basis1 and Basis2)
- Plotter Drivers Windows

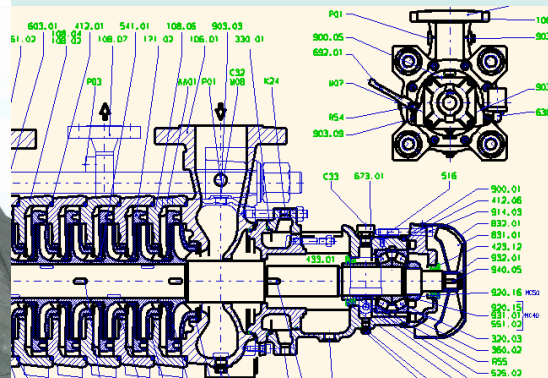
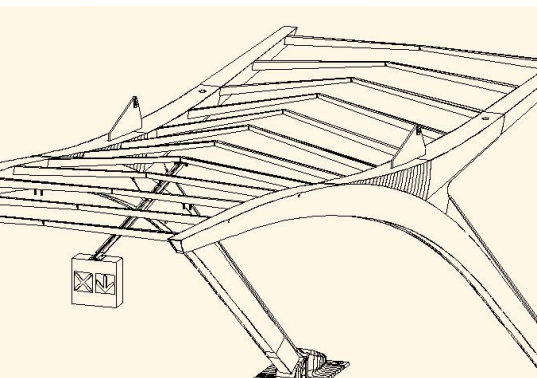
## Premium Package

In addition to all the functionality in Basic, this package contains:

- Advanced Design Objects
- SMART Edit
- Drilling and Tolerance Tables
- Parametrics
- basic3D
- MEDParts - Symbol Libraries for 50 DIN/EN/ISO Standards
- 3D-Interface
- LDM – Local Document Management

# M4DRAFTING

FEAUTERS



## Ultimate Package

In addition to all the functionality in Premium, this package contains:

- Design process automation
- Extended sheet-based 3D modelling
- 3D digital terrain modelling
- Sheet Metal Design
- CADConvert pro - Advanced DXF/DWG interface
- Integrated document management

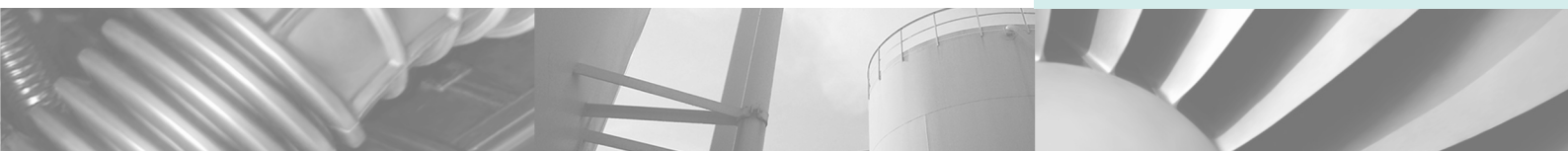
## M4 Personal

M4 Personal is a free version of the powerful 2D/3D CAD package for Windows® for private use. Companies wishing to use the software for business purposes can do so on a pay-per-result basis. The CSG eSERVICES portal [eservice.cad-schroer.com](http://eservice.cad-schroer.com) unlocks M4 Personal drawings for unlimited commercial use. This means that businesses do not have to pay for the software, only for using the results once these are commercially viable.

## Integration

“All of our users are very happy with the migration to M4 DRAFTING and MEDInfo, and with CSG’s ability to implement and support additional functionality. We now have a professional, flexible, centralised and fully supported drafting and data management system, ideal for our unique processes and QA requirements.”

Stéphane Morel, Business Applications Manager,  
Siemens T&D





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