

EPLAN

efficient engineering.

EPLAN Fluid **Fluid power engineering**



PROCESS CONSULTING

ENGINEERING SOFTWARE

IMPLEMENTATION

GLOBAL SUPPORT

FRIEDHELM LOH GROUP



EPLAN Software & Service

We advise companies on the optimisation of their engineering processes, develop software-based engineering solutions for mechatronics and implement customised CAD, ERP, PDM and PLM interfaces to accelerate your interdisciplinary product creation process. This means that you can work more efficiently and shorten your time to market. Comprehensive services such as consultancy on variants management and configuration, process advice relating to standardisation, automation and integration, implementations, training courses and support services are all part of our offering. Our software products and services are of the highest quality and are constantly being optimised and further developed. This is how we secure our customers' technological advantage and investment for the long term.

EPLAN Fluid

Fluid power engineering for professionals

EPLAN Fluid

EPLAN Fluid is an engineering tool for the automated design and documentation of circuits in fluid power installations complying with current standards such as ISO 1219.

Fluid-specific engineering is connected with all other engineering disciplines through the EPLAN Platform so that different engineering tasks can be carried out in parallel and the overall engineering process is accelerated.

Thus you benefit from:

- Accelerated fluid power engineering processes
- Optimised product quality
- Automated end to end documentation
- Significantly reduced costs

Standardised operating methods and deep integration

The EPLAN Platform is setting the pace in engineering: it feeds all EPLAN systems from a standardised database. In addition, the platform provides the basic functions that you can use equally in fluid power, electrical and PCT engineering or in control cabinet and switchgear engineering. Depending on the product variant, you have a standardised graphical editor, common rights management, full viewer functions, cross-system translation functions and centralised revision control.*

* The functions and options illustrated in this brochure always relate to the fullest functionality of the product.

Simply 'hand data on'

The openness and continuity contained in the EPLAN solutions ensures genuine benefits in the day-to-day engineering process.

■ Example

You can use the devices and equipment planned in fluid systems or electrical design directly in 3D mounting layout. The harmonisation of data between the programs or the manual return of parts list information normally required is not necessary.

EPLAN Data Portal

The EPLAN Data Portal is a global web service for high quality device data. Numerous leading component manufacturers provide online access to commercial, technical, process-oriented and corresponding graphics data in standardised EPLAN format. With direct access from the EPLAN Platform, the designer can access an ever-increasing pool of qualified parts data online. This largely puts an end to the time-consuming process of producing parts data manually, reducing configuration time at the same time as increasing the quality of machine and plant documentation.



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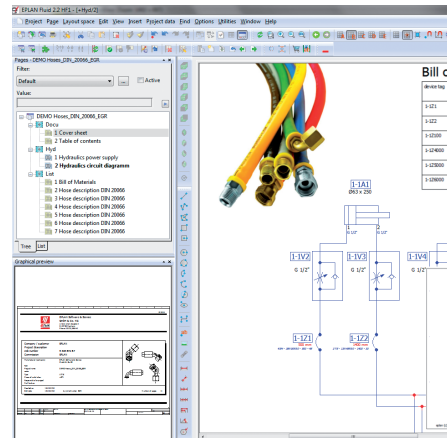
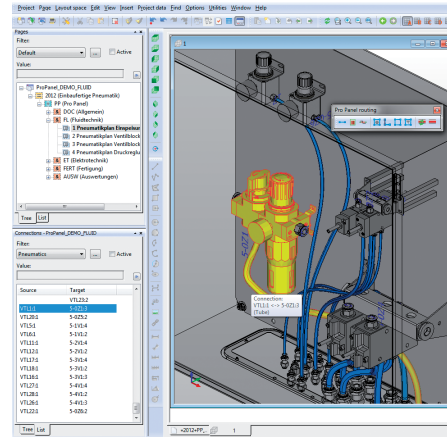
Transparency and enhanced productivity

High end with easy entry

By comparison with conventional, generally CAD-based systems without a project structure, EPLAN Fluid includes unique logic functions and automatic processes that accelerate your fluid planning. The modern user interface with comprehensive drawing functions makes your first experiences easy.

Autoconnecting generates all fluid connections automatically and can be given logical properties and analysed. You always have all components in view including small parts such as connectors, hoses or pipes, and your costs firmly in hand. You will also achieve your aims more quickly with Smart Connecting – the function with additional intelligence. Once devices have been connected their association remains, even if individual symbols are moved. This enhances safety significantly – especially where numerous connections are in use.

The fluid power plan, parts list and 3D representation are directly connected with one another. Lining up the components for a mounting layout in 3D is user friendly thanks to eTouch technology, because every component has defined handles, target points or mounting surfaces.



More efficiency

Perfect documentation included

Enhanced productivity included

Libraries of standard-oriented symbols meeting the current ISO 1219 form the basis for the rapid drafting of fluid power plans. Use macro technology to bring together the symbols for a large number of variants or to save entire partial circuits – re-use ensures that productivity is increased. Separate symbol files for the various fluid power engineering trades create transparency and make work easier.

Meaningful views

The Navigator in conjunction with project management crossing multiple pages provides for a coherent view of the entire fluid power application, even in complex installations. EPLAN Fluid generates the appropriate cross references for rapid navigation where larger elements are distributed over several pages. All project and page properties are shown in cover sheets, reports and plot frames. Your production, servicing and customer training functions will benefit from this powerful and meaningful documentation.

Fully automatic reporting

The definition of the technical data such as diameter, working pressures, flow rates or control ranges in parts management makes light work of your component selection. EPLAN Fluid generates your reports automatically on the basis of this key data. You can obtain correct parts and order lists, spare or wearing part lists and hose and piping lists at any time. Even the lubrication intervals lists for servicing the installation are generated automatically – your entire documentation is there in the blink of an eye. You can set up different criteria such as pneumatics, hydraulics, cooling, lubrication etc. and have separate reports for each discipline.

EPLAN Operational Sequence

EPLAN Operational Sequence documents the timed functional sequence of a machine/installation using easy to apply process descriptions – optionally by functional diagrams or following the GRAFCET standard. PLC programmers benefit from this end-to-end documentation that regulates the interplay of actuators and sensors. This yields valuable time for preliminary designs in machine control and accelerates the engineering process. Subsequent changes in fluid and electrical diagrams are automatically imported into the process description and documented down to the last detail.

Integrated engineering for more quality and flexibility

Totally global

EPLAN Fluid supports your global-level engineering – you can even master international projects with ease thanks to the foreign language translation. The dictionary supplied contains technical terms in accordance with ISO 5598 and is individually expandable. It supports all languages – use it as a list of suggestions for standardised technical terminology for consistent multilingual project engineering. What's more, the software itself is available in 17 languages.

Reliably standard-oriented

Software with a brain – EPLAN Fluid can specify rules in engineering. The system guarantees that your design is standard-oriented in accordance with the current ISO 1219 standard. Appropriate symbol libraries provide a base here. Item numbers and device tags can be automatically assigned in accordance with the standard, if required. Should the standards change, referenced symbols allow an efficient transfer of standards. Simply leave this time-consuming work to the system and concentrate on what is important.

One discipline – two opportunities

Efficient design demands the networking of all participating disciplines. EPLAN Fluid bundles fluid power and electro-technical requirements and ensures integrated engineering – with growing quality and decreasing costs. EPLAN Fluid may be obtained as a standalone system or as an add-on for the EPLAN Electric P8 CAE software.

But this is true for both systems – both the fluid power engineer and the electrical engineer can design together or alone, following their own methods of working.



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Benefits at a glance

EPLAN Fluid – not a system like all the others:

- Versatile – specialised, and yet integrated
- Standards-based – fluid power design in accordance with the latest ISO 1219 standard
- Interdisciplinary – hydraulics, pneumatics, lubrication, cooling etc.
- Macro technology – store standards and know-how
- From a single source – fluid diagram, parts list, 3D, connection lists etc.
- Understandable – clear project structures in the documentation
- Ingeniously simple – eTouch technology and Smart Connecting
- Totally global – multilingual documentation at the click of a mouse
- Automated – configuration with variants and project options
- Workflow-based – perfect combination of mechanical design (3D), fluid power design and control technology

Benefit from:

Time gains

- Reduction of time-consuming operations
- Less requirement to harmonise with technical departments
- Shorter design times

Increased quality

- Greater focus on critical steps

Increased flexibility

- More flexibility in organising your own work
- Uncomplicated working and simplification of exchange with colleagues speaking another language

A word cloud on a red background featuring the text 'EPLAN Fluid' in large, bold letters. Other words include 'time savings', 'quality', 'fluid engineering', 'electrical engineering', 'ISO 1219', 'documentation', 'eTouch technology', 'GRAF CET standard', 'fluid power design', 'connection list', 'parts list', 'integration', 'implementation', 'flexibility', 'operational sequence', 'multi user management', 'training', 'reports', 'PLM Interface', 'ERP Interface', 'PDM Interface', 'project process', 'engineering process', 'time to market', 'component selection', 'engineering process', 'training support', 'product engineering', 'hydraulic', 'pneumatic', 'lubrication', 'engineering integration', 'fluid power connection list', 'ISO 5598', 'smart connecting', 'CAD Interface', 'Fluid CAE', 'multi user management', 'training', 'reports', 'PLM Interface', 'ERP Interface', 'PDM Interface', 'integration', 'implementation', 'flexibility', 'operational sequence', 'multi user management', 'training'.

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- Process consulting
- Engineering software
- Implementation
- Global support



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