

# EPLAN

efficient engineering.

## **EPLAN Electric P8** **Electrical 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 Electric P8

# Power for electrical engineering

## EPLAN Electric P8

EPLAN Electric P8 will enhance your efficiency in designing, documenting and managing the automation projects for your machinery and plant. Automatically generated, detailed reports based on the circuit diagrams are an integral component in completing the comprehensive documentation and supply the data required for downstream project phases such as production, assembly, commissioning and service. Engineering data from other project areas can be exchanged via interfaces and thus guarantee continuity and integration over the entire product creation process.

The EPLAN Platform integrates all relevant disciplines in the development and design process. Interdisciplinary working becomes reality thanks to the many different functions and the direct connection to fluid power, electrical instrumentation, control engineering and control cabinet engineering.

### Thus you benefit from:

- Faster engineering processes
- Optimised product quality
- Consistent high-quality 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 electrical, PCT and fluid power 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.\*

## Simply 'hand data on'

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

### ■ Example

EPLAN PLC & BUS Extension provides comprehensive functions for data exchange with the top PLC configuration tools. This synchronisation guarantees optimum interaction between hardware and software configuration and improves the quality of shared project documentation.

## 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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# Pioneering electrical design

## You determine how you work

The ways of working in electrical design are as varied as the tasks to be performed. Every method of working in project engineering has its advantages in certain phases of the project – whether it is a matter of generating the initial graphical overviews of the machinery or plant, drawing circuit diagrams or recording project information in the database separately from the graphics. Ideally, an engineering system supports these different design approaches equally and in parallel. You decide what way of working is the most efficient for you, and EPLAN ensures thoroughgoing consistency in the project data whatever your working approach.

## Automatic reporting included

Once recorded in the circuit diagram, the project data forms the foundation for a nearly automatic completion of the machine and plant documentation. At the press of a button you can check the documentation against the quality requirements you have defined, applying comprehensive and individually configurable check procedures. You determine how strictly EPLAN monitors the quality level of your documentation. EPLAN supports rapid revision and corrections through central recording of the results of testing in message management. EPLAN automatically generates detailed reports as an integral part of the comprehensive documentation either as the project progresses or concentrated at the project conclusion. In this way, you can supply downstream project stages with all the requisite information from the engineering stage – from continuous product creation to production, assembly, commissioning, servicing and maintenance.





## **Saving time through standardisation, concentrating on what is important**

You concentrate on your engineering task, and EPLAN worries about consistency in the management of the project data. This frees you up to create high quality machinery and plant documentation quickly. Managing your project data centrally using Navigators gives you a clear overview and individual editing options, whatever the graphical representation. Every user has their own way of looking at things and specific tasks to complete. This is why we provide comprehensive filter options and have designed the user interface with options for the creation of individual desktops that concentrate on what is important and give drive to the engineering process.

## **Variants technology accelerates design**

Re-use and standardisation are the keywords for sustainable time savings. Circuit diagram macros to simplify the drawing of standardised partial circuits accelerate your engineering process. EPLAN Electric P8 goes beyond this: partial circuits (macros) can contain graphical variants, different representations and predefined value tables. For the most part, structures and interconnections of functional units are graphically similar – it is only the dimensioning and variants that, predetermined by the requirements, decide on the design characteristics of the circuit itself. These variants are created inside these circuit diagram macros – instead of changing individual data items, you simply select the required variant of the partial circuit and the matching value sets. A project-wide options technology, which you can use to modify entire machine and system configurations at the press of a button, further accelerates the process.

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# Interdisciplinary collaboration – worldwide

**Conversions between standards and translations break down the barriers to worldwide collaboration. Integration into Office makes for easy editing on the basis of established, neutral data formats.**

## **Internationally standardised and totally localised**

EPLAN Electric P8 supports global standards such as IEC, NFPA, the Russian GOST and Chinese GB standards. The optional conversion of standards secures your global competitiveness in the context of increasing internationalisation. Thanks to consistent Unicode compatibility, EPLAN Electric P8 is able to use your custom translation databases to provide circuit diagrams in all languages – from a Chinese circuit diagram to a Russian parts list, everything is translated online or by the system on completion. Every user designs in their own language and EPLAN translates into the required target language as necessary. One click and the project data is instantly dispatched around the world via email and PDF export. What's more, the software itself is available in 17 languages.

## **Greater performance thanks to Office integration**

EPLAN's integration into the Office environment brings considerable productivity enhancements. No programming knowledge is required to customise the export of the project data recorded in EPLAN to Excel where it can be edited externally. Quick and easy editing of dimensions, passing to external departments that have no access to EPLAN or data exchange with procurement, manufacturing and maintenance can all be implemented independently of the system in this way.



## EPLAN Electric P8 – CAE software makes the difference:

- Versatile – all-round support of graphical and device-oriented design
- Macro technology – scalable and based on technical value sets and graphical variants
- Reliable results – logical check functions and automated project reporting
- Totally global – supports of international standards (IEC, NFPA, GOST, GB standard)
- Platform technology – direct communication between electrical, fluid power and electrical I&C engineering

### Benefit from:

#### Time gains

- Reduction of time-consuming operations thanks to automatic functions
- Less work thanks to reduced requirement to harmonise with technical departments
- Shorter design times with reliable project quality

#### Increased quality

- Check functions ensure correct outcomes
- System-supported minimisation of individual errors

#### Increased flexibility

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



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# EPLAN

efficient engineering.

- Process consulting
- Engineering software
- Implementation
- Global support



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