



Visual PlantEngineer

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Functions

This is a detailed overview of the functions of our P&ID-Tool Visual PlantEngineer. Thanks to automated and standardized work processes your workflow will be significantly improved and optimized while the quality of your data will be enhanced.

Functional description

| Function | Description |
|--|---|
| Drawing functions | |
| Symbol libraries for piping and instrumentation diagrams (P&IDs) satisfying industry standards | <ul style="list-style-type: none"> • Intelligent symbols with switching function for change from basic to special symbol • Predefined symbol properties (component-specific) • Smart symbols with intelligent connection points and text fields that automatically adjust in the direction of reading • Add symbols to the drawing by means of drag & drop • Ease in turning and shifting symbol |
| Intelligent pipes | <ul style="list-style-type: none"> • On inserting and deleting of components the pipes split and rejoin automatically • When the symbols are shifted the piping lines move with the symbols • Line jump when pipes cross each other • In the case of line jumps, the lines split vertically or horizontally as needed • A main line splits a secondary line |
| Intelligent drawing template | <ul style="list-style-type: none"> • The drawing header automatically adopts the project and drawing data • The layout of the drawing header can be changed as needed • Intelligent drawing index • Scalability of the drawing sheet formats (A4-A0, ANSI) and variable sheet length |
| Project management | <ul style="list-style-type: none"> • Logical structuring of the project data for the whole plant, a section of the plant, a functional unit, ... • Organizing and structuring of components that belong together into functional groups • Automatic allocation of the components to the whole plant, a part of the plant, or a functional group during drawing • Uniform system of identification • Automated check for unique identification and completeness of data |
| Consistency check for | <ul style="list-style-type: none"> • Duplicate function numbers • Completeness of data entry |
| Customized symbols | <ul style="list-style-type: none"> • Creation of customized intelligent symbols by combination with property shapes • Accessible for repeated use in further projects |
| Cross-project use of customized plant parts | <ul style="list-style-type: none"> • Definition of the customized plant parts as a company standard for use in further projects |
| Graphic user interface | |
| | <ul style="list-style-type: none"> • Hierarchic mapping of plant parts that belong together (Plant Explorer) • View with procurement units comprising all components that are purchased together • View with installation groups comprising all components that are delivered and installed together |

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| Graphic user interface | |
| List view | <ul style="list-style-type: none"> • Sorting of components by number, class, component groups • Multiple selection allows single data entry for components selected |
| Change management | <ul style="list-style-type: none"> • Documentation of changes in the drawing index • Display on the drawing of the five most recent changes |
| Task-related views and functions | |
| Sales | <ul style="list-style-type: none"> • Concept development • Documentation of customer requirements • Preparation of offer • Early preparation of order processing |
| Design | <ul style="list-style-type: none"> • Component specification • Differentiation of the technical concept • Preparation of procurement • Preparation and structuring of installation • Supply data to other areas (electrical department, I&C, ...) |
| Procurement | <ul style="list-style-type: none"> • Target/actual comparison • Delivery status |
| Installation | <ul style="list-style-type: none"> • Check lists • Labeling |
| Commissioning | <ul style="list-style-type: none"> • Check and test protocols, commissioning reports • As-Built documentation |
| Language | |
| Application language | <ul style="list-style-type: none"> • Choice between German and English |
| Choice of language for document output | <ul style="list-style-type: none"> • German, English, Russian, Chinese • Bilingual documents |
| Lists and documents | |
| Export und Import in Excel | <ul style="list-style-type: none"> • Automatic output of component data as Excel lists • Changes in the project database (Excel imports) are integrated into the P&ID on mouse-click |
| Excel-Listen | <ul style="list-style-type: none"> • Components • Aggregates • Apparatus • Material flow • Electrical components • I&C |

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|----------------------------|--|
| Lists and documents | |
| Data sheets | <ul style="list-style-type: none"> • Automatic printout of data sheets in Word • Integrated tabular display of component data for: <ul style="list-style-type: none"> • Aggregates • Apparatus • Electrical components • I&C |
| Tables in P&I diagram | <ul style="list-style-type: none"> • Tables can be freely placed in the drawing • Update as needed |
| Creation of labels | <ul style="list-style-type: none"> • Labels in Word format • Standard and freely definable layouts • Barcode (Data Matrix, EAN, ...) |
| Modules | |
| Pipe Manager | <ul style="list-style-type: none"> • Piping numbers • Inheritance of nominal diameters • Check for inconsistencies (nominal diameter, short circuits, unconnected pipes, duplicate pipe numbers) • Pipe lists • Same color display of all segments that are part of the same pipe |
| Report Designer | <ul style="list-style-type: none"> • Creation of customized reports • Use does not require knowledge of programming • Export to various data formats (Word, Excel, HTML, PDF, XML, ...) |
| Language modules | <ul style="list-style-type: none"> • Russian • Spanish • French • Chinese |

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Ready for success!

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