E3 series

Create Hydraulic and Pneumatic Plans

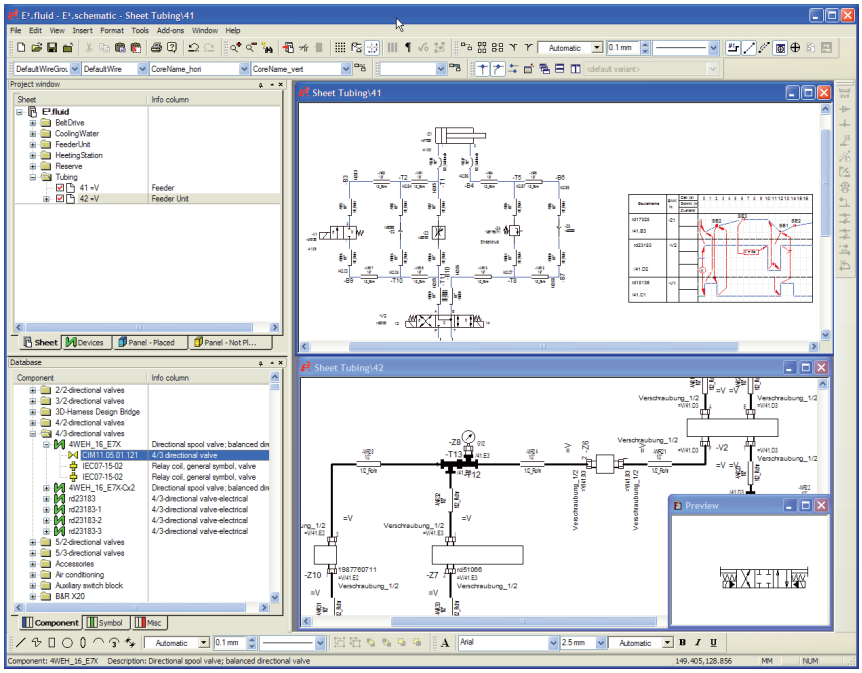
DATA SHEET

E3.fluid

Introduction

E3.fluid is a complete and open CAE solution for the creation of hydraulic and pneumatic diagrams. E3.fluid permits the parallel development of a machine/system, consisting of hydraulic/pneumatic diagrams and electronic circuit diagrams, by different design teams. In doing so, the teams have access to a common database. This enables the components used in the different diagram types to reference one another.

An example is the use of a directional control valve in the hydraulic diagram, whose solenoid is displayed in the electrical diagram. Redundant data management is thereby avoided.



E3.fluid – schematic and tubing

ZUKEN

The E³.series Standard

- Completely integrated in Windows® environment
- User-interface in numerous languages; easy to switch
- Supports all Windows® fonts using UNICODE
- Configurable user interface and toolbars
- Object-oriented user interface with possibility to directly integrate in other applications
- Display drawings using different norms (DIN, ANSI, JIC)
- Supports any sheet format, e.g. DIN, Ladder, special formats
- Translate texts into any language
- Search mechanisms for symbols, devices, connections, texts and attributes…
- Context-sensitive Online Help
- 256 object-related display levels
- Print and plot using all Windows® standard drivers
- Supports standard formats like STEP, DXF/DWG, SVG, PDF, pixel graphics
- Bidirectional API (COM/DCOM Standard)
- Integrated database editor
- Compatible with all previous E³.series versions

The E³.series Base Functionality

- Move connected symbols
- Automatic and parallel connections
- Drag & Drop
- Dynamic zooming and panning
- Save, load, copy, rotate and mirror drawings and areas
- Extensive functionality for exchanging symbols and components
- User-defined connection attributes
- User-defined grid sizes, fonts and line types
- Online cross-references for connections and devices
- Object and text hyperlinks also within E³.series projects
- Continuous verification of adherence to manufacturing specifications, such as multiple assignment of symbols and overcrowding of components
- Supports variants and options, Boolean operators and alias names

Special Functionality in E³.fluid

- Own letter designations for fluidic and electrical components
- Description of pins/armatures
- Fluid objects such as tubes, hoses and reducers
- Display different colors for design attributes, e.g. tube pressure, tube type
- Create symbols and diagrams according to ISO 1219 – Fluid Power Systems; Graphic Symbols and Circuit Diagrams
- User-defined connection attributes, e.g. nominal pressure, nominal width
- Scalable symbol graphics, e.g. for different tank sizes

Additional E³.series Modules

E³.view
E³.view is the free-of-charge viewer for all E³.series projects (.e3s) and special viewer files (.e3v). It can be used by anyone within a company or passed on to suppliers and customers.

E³.schematic
E³.schematic is the E³.series base module. Easy to use and operate. Provides complete functionality for electrical design, including inline terminals and connection plans.

E³.cable
E³.cable offers enhanced functionality for designing cables and cable harnesses. Different views of the design enable specific documents to be created for production, start up and service.

E³.panel
E³.panel is the module for panel layout and wiring. Optionally design the panel in 2D or 3D, place all devices and automatically connection wire pathways as specified.

E³.formboard
E³.formboard – the module used to create 1:1 nailboard drawings for manufacturing cable harnesses. Quickly and easily place views, define the cable harness structure as well as specify the mounting and cable protection.

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