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SPECIAL FUNCTIONALITY IN E³.3D Routing Bridge

- Electromechanical collaboration
- Virtual prototyping
- Clash avoidance
- Bend radius
- Space optimization
- Connector transfer
- Cable transfer
- Cable length transfer

E³.Harness Flattening

(optional product)

- Extract 3D geometric harness data
- Automate the creation of 1:1 scale harness description for manufacturing

E³.3D Routing Bridge - Integrate electrical and mechanical design

Introduction

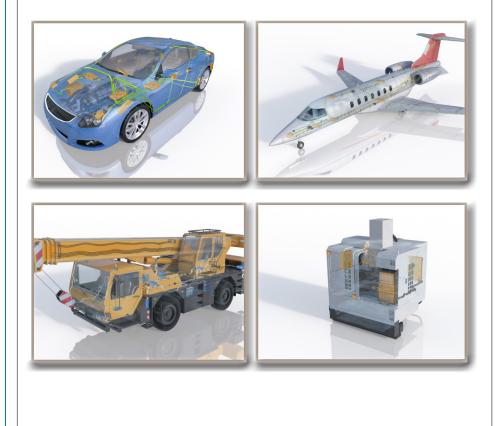
Zuken's E³.series is used for documenting and detailing electrical and fluid design projects. Its flexibility supports the entire process from definition and design, through manufacturing and maintenance. Its unique object-oriented architecture ensures all stages of the design are fully synchronized.

E³.3D Routing Bridge enables companies to integrate their electrical harness design with all major MCAD vendors. Electrical harness details such as connectors, terminals, splices and netlist information are transferred to the MCAD system, where harness engineers route the cables in the mechanical space. The length and structure data for the harness is then fed into E³.series, where the final details are added for manufacturing.

E³.3D Routing Bridge works in conjunction with E³.cable.

Supported industries

E³.3D Routing Bridge is ideally suited for harness manufacturers and automotive, aerospace, rail, off-highway, special purpose vehicle and machinery companies.

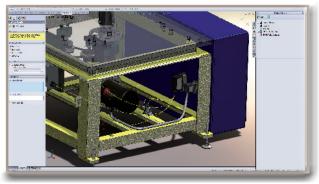


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Designed for purpose

E³.3D Routing Bridge enables electrical and mechanical collaboration allowing electrical and mechanical engineers to work in their own dedicated environment but and then integrate design data in a controlled manner.



Machinery harness integration

Virtual prototype

Digital prototyping is transforming the way companies work. Costly mockups and expensive workshops and laboratories are no longer required.

Harness flattening (optional product)

For certain MCAD systems, you can extract 3D geometric harness data, import this into E³.Harness Flattening and automate the creation of the 1:1 scale harness description for manufacturing in E³.formboard.

Additional E³.series options

E³.schematic

The core module of the E³.series suite enables the creation of schematic diagrams for electrical control systems.

E³.cable

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.fluid

Integrated design solution for hydraulics, pneumatics, cooling and lubrication systems. Supports integrated electrical and fluid design.

E³.formboard

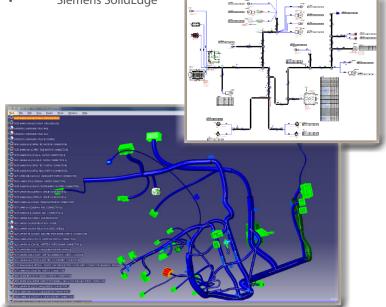
Creates build-to-print detailed 1:1 harness designs; linked dynamically to E³.cable drawings.

E³.panel

For general arrangement drawings of cabinet enclosures. Work

Supported MCAD systems

- Autodesk Inventor
- Dassault Systèmes CATIA V5
- Dassault Systèmes SolidWorks 3D CAD
- PTC Creo Elements
- PTC Creo Direct
- Siemens NX
- Siemens SolidEdge



E³.formboard design

in either 2D or 3D, place devices, cable ducts and mounting rails and prepare panels for manufacture.

E³.redliner

Mark up documents in a protected read-only copy of the design. Playback and jump to all recommended changes in the master design.

E³.Revision Management

Document all physical and graphical changes between design iterations. Automatically produce engineering change order documentation

E³.topology

Evaluate system harnesses early in the design flow for factors such as length, weight and cost. Enables tradeoff analysis of harnesses and sub-harnesses to optimize manufacturing performance and cost.

E³.view

Free-of-charge viewer for all E³.series projects and special viewer files.

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