

CATIA PLM Express

CATIA - Electrical 3D Design & Documentation

End-to-end 3D electro-mechanical solution for a new way of collaborative design

It is increasingly necessary to embed electrical components that require optimized cable connections in industries such as industrial equipment, high-tech, and consumer goods. Electrical designers need to integrate their modules and cables early in the process to avoid costly physical prototypes.

Overview

CATIA - Electrical 3D Design & Documentation provides a dedicated electro-mechanical end-to-end solution for designing and documenting electrical modules in all industries that design electric, electronic and electro-mechanic components. It reduces time and cost for creating electrical modules directly in the Digital Mock-Up, avoids interferences and create up-to-date manufacturing documentation.

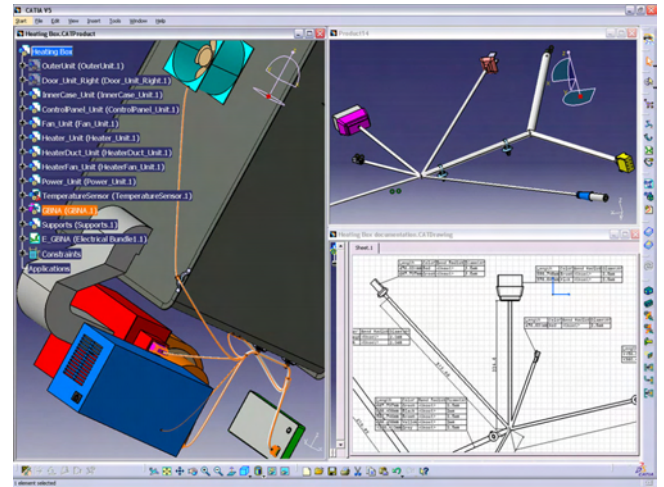
It addresses also suppliers who design independent electrical modules that interface with a global electrical digital mockup, especially when OEM's are equipped with CATIA V5. (End-to-end auto or aerospace large wire harness design is addressed with CATIA - Electrical Wire Harness Design and CATIA - Electrical Wire Harness Flattening)

Customer Benefits

- Integrated process coverage to reduce cycle time from design to manufacturing
- Automatic wire length calculation and definition
- Quick electrical space reservation within the product, avoiding physical prototypes
- Reduce errors by validating the wire harness & cable assemblies installation within the virtual product

Key Capabilities

- Connectors & supports catalog creation
- Easy 3D design and placement of electrical components in the digital mock-up
- Automatic harness flattening and 2D documentation generation for manufacturing
- Automatic propagation of modification from design to documentation
- XML-based integration between existing schematic systems and CATIA 3D electrical design



Screen capture of CATIA - Electrical 3D Design & Documentation

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About Dassault Systèmes

a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 90,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes develops and markets PLM application software and services that support industrial processes and provide a 3D vision of the entire lifecycle of products from conception to maintenance. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product - SolidWorks for 3D mechanical design - DELMIA for virtual production - SIMULIA for virtual testing and ENOVIA for global collaborative lifecycle management, including ENOVIA VPLM, ENOVIA MatrixOne and ENOVIA SmarTeam. Dassault Systèmes is listed on the Nasdaq (DASTY) and Euronext Paris (#13065, DSY.PA) stock exchanges. For more information, visit <http://www.3ds.com>

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