

CATIA PLM Express

CATIA - HVAC Schematic to Design

Enables System engineer and designer to cover the global process engineering for plant design project.

The lack of an associative environment between 2D schematics and 3D HVAC design leads to unnecessary errors and design delays. Companies need an integrated solution to design logical lines of HVAC systems in order to validate the design early in the design process.

Overview

CATIA - HVAC Schematic to Design product (1) enables the user to design and manage logical lines of HVAC systems using standards and specifications according to industry usage. It enables the creation of component catalogs with multi representation, attributes and design rules. The system engineer creates intelligent schematics and HVAC Diagrams. Fully integrated, the designer builds the 3D design directly from 2D diagrams (2D/3D driven). These intelligent diagrams and 3D design capability enable users to create and validate their designs with respect to company know-how.

This product covers project engineering from basic design up to detailed design.

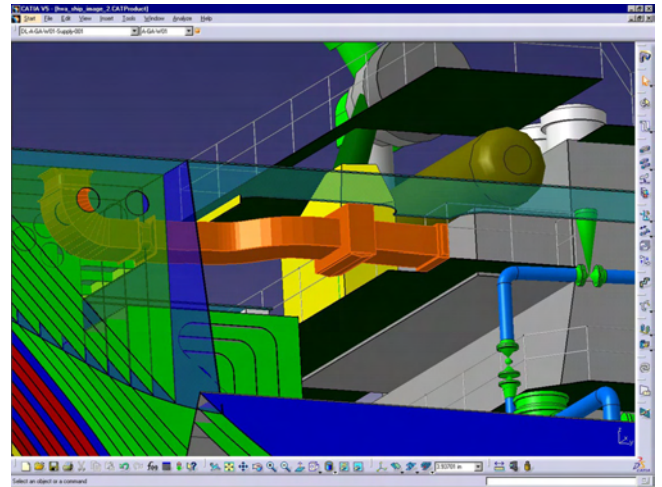
(1) HVAC: Heat, Ventilation and Air-Conditioning

Customer Benefits

- Improves product performance and quality thanks to standards and material specifications taking into account the design rules, automatic parts placement and multi-representation
- Full associativity between 2D schematics and 3D HVAC design
- Improve design time with an intuitive user interface to annotate, validate the model, query data and generate appropriate report information
- Single geometric modeler for all the equipment and system products (piping, tubing, etc.)
- Full integration between mechanical and equipment and system products
- Capitalize on company know-how to design right the first time
- Organizes catalogs customization with full parametric components alongside technological attributes such as pressure, temperature, etc.

Key Capabilities

- Creates catalogs of 2D and 3D parametric components according to standards and material specifications
- Defines and manages HVAC lines for different engineering systems
- Creates intelligent schematics with respect to standards and specifications such as text annotation templates, off-sheets connector and automatic gaps
- Designs the 3D preliminary HVAC layout routes with design rules checking (minimum length and turn)
- Adds spec-driven 3D HVAC components to detail the design
- Allows associative 3D creation directly driven by the 2D schematic diagrams
- Provides BOM reports, query and analysis



Screen capture of CATIA - HVAC Schematic to Design

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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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