



CATIA PLM Express

CATIA - Tubing Schematic to Design

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

Overview

CATIA - Tubing Schematic to Design product enables the designer to design and manage logical lines of tubing 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 tubing diagrams. Fully integrated, the tubing designer builds the 3D design directly from 2D diagrams (2D/3D driven). These intelligent diagrams and 3D design capabilities 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.

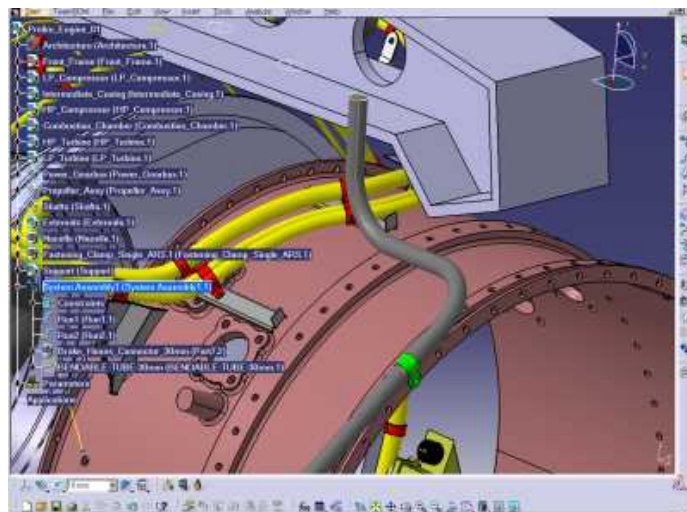
Tubing versus Piping: tubing lines are manufactured using a bending process. The diameter is usually smaller than piping. Tubing lines may include flexible tubes.

Benefits

- Improves product performance and quality thanks to standard and materials specification taking design rules into account, automatic parts placement and multi-representation
- Full associativity between 2D schematics and 3D Tubing design
- Improves design time with an intuitive user interface to annotate and validate the model, query data and generate appropriate report information
- Full integration between mechanical and equipment and system products such as associativity between supports and tubes
- Enables complex 3D design of tubing placement taking into account room constraint
- Capitalizes on company know-how to design right the first time
- Catalogs customization with full parametric components alongside technological attributes such as pressure, temperature, etc.

Capabilities

- Creates catalogs of 2D and 3D parametric components according to standards and material specifications
- Defines and manages tubing 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 tubing layout routes while checking/verifying design rules with respect to the material's bending capabilities
- Adds spec-driven 3D tubing components to detail the design
- Allows associative 3D creation directly driven by the 2D schematic
- Creates flexible tubes with bend, slack or length rules alongside local bundle if needed
- Provides BOM reports, query and analysis
- Provides input report for Numerical Control bending production



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About Dassault Systèmes

As 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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