



Virtual Design CATIA Mechanical Engineers pack

CATIA Mechanical Engineers Pack gives you all the power you need in a flexible and powerful environment. It covers a wide range of operations like part design, part positioning, automated mechanisms design, and assembly drawing generation. And because it's based on the V6 collaborative platform, designers can expect truly concurrent design while working on the same assembly, as well as an automated design process that features robust relational design.

With the bundled ENOVIA configuration, design departments can now work within a single PLM environment to efficiently manage, review, and reuse V6 work-in-progress product information. It also ensures that CATIA users can manage, manipulate, track and collaborate on product structures and Engineering Bill of Materials (EBOM) throughout the product lifecycle, which in the end minimizes errors, helps eliminate part-redundancy, and speeds up the product-development processes.

Key capabilities

Industry-proven relational design

Drive design evolution flexibly to dramatically reduce design time. This enables users to switch or substitute parts and assemblies.

Design compliance and template instantiation

Boost design productivity and increase quality of the final product thanks to design templates and rule-based corporate standards.

Robust modelers to serve concept, detailed, and

manufacturing preparation design

Provide the right tool to CATIA designers with complete integration from the concept to manufacturing phases. Casual users can benefit from direct modeling with CATIA Live Shape. Heavy CAD users can benefit from functional modeling that preserves design intent. Both casual and heavy CAD designers can boost innovation and quickly deliver a high-value final product to market.

Flexible drawing production

Customer benefits

- Design concurrently, online, and globally
- Cut design time with knowledge capture to automate design
- Leverage design user experience and innovation with leading edge modeler technologies
- Render a high quality representation of the virtual product in real-time
- Produce drawings with consistency and flexibility
- Work in a PLM 2.0 pre-configured environment within the native user environment
- Find product information easily and collaborate more efficiently using a rich, intuitive 3D interface
- Maintain and organize all product engineering data to streamline product development
- Manage and access 3D product information in a fully-secured environment
- Access Bill of Material directly in CATIA

fully-associative with 3D

Generate drawings automatically from 3D mechanical design and assembly plus interactive drafting for the top of professional production that integrates dress up and annotations. Deliver automatic updates to improve consistency.

Realistic rendering of the virtual product

Real-time rendering helps designers to interactively create and evaluate realistic renderings, test design alternatives, decide earlier, and produce more images on virtual prototypes at any time in the PLM process.

PLM 2.0 pre-configured environment in the native user environment

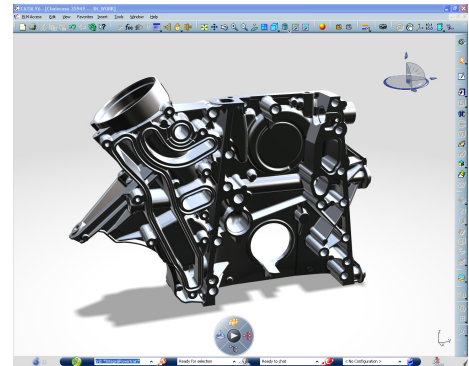
Work in a PLM 2.0 pre-configured environment in the native user environment.

Unique search and navigation from the 3D reference

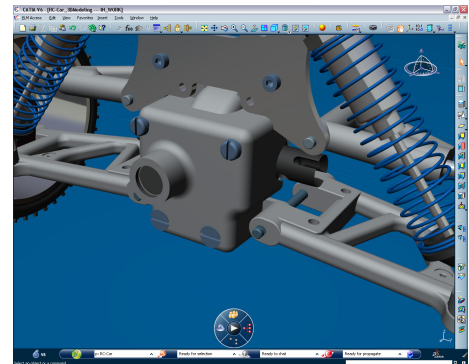
ENOVIA Live Collaboration establishes the necessary environment for end-users to effectively collaborate during product development. ENOVIA Live Collaboration's rich business process services enable collaboration between all users regardless of functional roles while allowing management to measure the effectiveness of the overall product development process.

Manage, review, and reuse V6 work-in-progress product information

Offers enterprise-level collaboration while maintaining the productivity of end-users. With product content being managed in the Product Lifecycle Management (PLM) environment rather than on users' PCs, organizations now are able to create, manage and review product content more securely.



Managing assemblies from mechanical part positioning to assembly constraints definition to drawings generation



Detail of a plastic remote car designed with CATIA Live Shape



Instant collaboration for 3D brainstorming

About Dassault Systèmes

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 100,000 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 to recycling. 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 - ENOVIA for global collaborative lifecycle management, and 3DVIA for online 3D lifelike experiences. Dassault Systèmes shares are listed on Euronext Paris (#13065, DSY.PA) and Dassault Systèmes ADRs may be traded on the US Over-The-Counter (OTC) market (DASTY).

