



Virtual Design

CATIA Industrial Designers pack

CATIA Industrial Design is the ideal workflow solution for styling and design. It empowers you to perform design sketch integration, ultra-fast 3D ideation concept modeling with subdivision surfaces, high-end surfacing, high-end real-time visualization, and photo-realistic rendering with mental ray. Standard exports are managed through STEP and IGES formats; while STL files are used for rapid prototyping. 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 (EBOMs) throughout the product lifecycle, which in the end minimizes errors, helps eliminate part-redundancy, and speeds up the product-development processes.

Key capabilities

Sketch integration

2D stylists can integrate their work directly into the 3D CATIA environment, as the design reference for 3D modeling, with an intuitive toolset to calibrate the designer environment. 2D is easy to position and scale, further supporting the 3D geometric construction.

Direct modeling with CATIA Live Shape

Delivers a revolutionary direct 3D modeling for casual users to quickly create design concepts and easily modify existing ones, as well as those from other CAD solutions.

Imagine & Shape Subdivisions Surface Technology

Dedicated to aesthetical shape creation for conceptual design. This introduces a new way of modeling, similar to clay modeling, which allows designers to create very complex shapes simply and rapidly. Its natural way of working allows you to explore lots of innovative ideas.

Suite of direct surfacing modeling tools

Dramatically simplifies the shape design process by unifying all types of free-form curves and surfaces in a single math-free representation. Provides surface-based tools to

Customer benefits

- Design with an Industrial Design workflow solution embedded in CATIA
- Easily integrate 2D design into a 3D environment
- Benefit from ultra-fast modeling, ideation, and exploration
- Persuade and accelerate design validation
- Share concepts and ideas quickly with powerful collaboration tools
- Work in a PLM 2.0 pre configured environment in the native user environment
- Take advantage of unique search and navigation from 3D
- Manage, review, and reuse V6 work-in-progress product information
- Benefit from a fully secured environment
- Manage documents in a unique environment with native Microsoft integration
- Access immersive Bill of Material (BOM)

help designers create styled shapes and surfaces, enabling even casual users to easily smooth and trim curves and surfaces. Real-time quality checking is possible through curve and surface diagnostic and analysis tools.

Mechanical surface design

Provides a comprehensive set of tools for creating and modifying mechanical surfaces used in the design of complex shapes or hybrid parts.

Instant and asynchronous collaboration

Easily share data and ideas. Featuring image exchange, viewpoint synchronization, co-review and co-design, this solution allows instant and asynchronous collaboration between designers and engineers connected to the project reference.

Real-time, high-end visualization and photorealistic rendering with mental ray

Designers can interactively create realistic renderings in real-time. They can also dynamically create and manipulate materials, lights, and environments with instant feedback. Plus, it's possible to generate high-quality photo-realistic images based on industry leading mental ray last-generation rendering software component.

Drafting Generation

Delivers industry quality drawing production tools to designers.

Export Standard Files: STEP, IGES or STL files for Rapid Prototyping Machining

Provides tools to quickly transform 3D virtual models into real physical prototypes for quality, ergonomic and aesthetic evaluation. This delivers mesh creation to export as a standard binary STL file for rapid prototyping machining.

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 3D

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.



Unified workflow solution for Styling and Concept Design



Real time rendering with CATIA Industrial Design. Courtesy of Nikon

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).

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