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CATIA Design Excellence for Product Success



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. 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 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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Leading the Way

CATIA, Dassault Systèmes' flagship PLM solution, is the world's leading solution for product design excellence. It addresses all manufacturing organizations, from OEMs through their supply chains, to small independent producers.

Building on strong Fundamentals

Your CATIA PLM: Designed with you, designed for you

Capitalizing on our extensive experience working with world-class customers, we have developed our software and services to optimize critical processes in key industries. Because your success is ours, CATIA has embraced a process-centric approach that places customers and their industrial processes at the heart of our development and drives the definition of our products.

CATIA is dedicated to making its customers successful, helping them transform the way they do business for optimal efficiency. CATIA works in close collaboration with you to understand your needs and provide you with the best complete end-to-end solution to address your industrial specific requirements.

HANIL E-HWA

"Our Dassault Systèmes PLM Solution ensures that all processes, from product design to shipping, are comprehensively organized throughout the company's structure."

Oh-Hwan Jeon
Director R&D Center



As the world leader in product design software solutions powered by 3D, CATIA's applications and services enable businesses of all sizes in all industries around the world to digitally define products, from the simplest to the most complex. CATIA can be applied to a wide variety of industries, from aerospace and defense, automotive, and industrial equipment, to high tech, shipbuilding, consumer goods, plant design, consumer packaged goods, life sciences, architecture and construction, process power and petroleum, and services.

Today, CATIA is used to design anything from an airplane to jewelry and clothing.

Open, scalable, and easy to deploy, CATIA addresses the complete product development process from product concept specification through product-in-service and facilitates true collaborative engineering across disciplines, including style and shape design, mechanical design, equipment and systems engineering, digital mock-ups, machining, analysis, and simulation.

A pioneer solution and a standard for many industrial processes, CATIA bears Dassault Systèmes' imprint of cutting-edge technology, functional customization, and intensive support.

By constantly learning from our customers, we can rapidly tailor our solutions to changing production contexts and new business environments, in turn helping them to transform their business and increase value for their own clients.

Design performance for Innovation: Just be the imagineer

Saving time in design to make room for innovation is key for your company to survive in a fast-changing world. CATIA leverages your capacity of innovation by delivering highly productive design solutions to automate time-consuming tasks, and promoting new approaches that free designers from the traditional CAD design mindset to deliver more productivity gains and greater freedom for innovation.

With its revolutionary functional design approach, CATIA Functional Modeling dramatically reduces the design of parts, while enabling designers to focus on the design and not the design tool. CATIA also guarantees design optimization through product IP capitalization. Corporate know-how and expertise is captured and reused for new projects to enable generative design and reduce overall product creation cycle-time.

INTEGRAL POWERTRAIN

"By using the CATIA generative approach to powertrain development, we can generate detailed and accurate concepts in 40% less time, and so win more business and stay ahead of our competition."

Roger Duckworth
Engineering Director

“In the electronic consumer goods industry, what is new today is old tomorrow. CATIA helps us innovate at the speed of market demand.”

Per Gustafsson
European Marketing Director

PELTOR

Breakthrough technologies: Your innovation starts with ours

To best support its customers' innovation and continue to deliver performing design solutions, CATIA constantly fuels its own innovation and feeds its products with breakthrough technologies.

CATIA's technological leadership is sustained by a very ambitious Research & Development strategy. With more than 28% of our revenue reinvested in R&D, CATIA is engaged in a proactive patent strategy. CATIA took the use of subdivision surface technology, originally intended for 3D animated movies production, and applied it to the world of CAD for manufacturing industries. The technology was then deployed in the CATIA Imagine & Shape product, introducing a unique “from ideas to 3D” approach for Industrial Design, to deliver creative work at the speed of imagination.

Easy, Open and Scalable: Adaptable to you

Because each product is unique and requires a dedicated solution, CATIA nurtures a strong, dynamic and tightly-knit network of partners. This ecosystem gathers more than 100 companies who share a common interest in developing solutions and services that best serve our common customers. They all contribute to the enrichment of our product offering and technology through an extensive set of complementary specialized applications developed on Dassault Systèmes' open CAA platform.

Today, more than 5,000 developers are contributing to strengthening and diversifying the CATIA portfolio with some 210 applications, twice as many as the native CATIA applications.

“Dassault Systèmes and Microsoft software solutions have helped us dramatically reduce the time it takes to develop innovative products.”

Beverley Lepine
Chief Operating Officer

ROYAL CANADIAN MINT



“We wish to develop our PLM processes and methodologies to improve collaboration and data re-use to support Goodrich's Lean Product Development initiatives.”

Michael Collier
Design Technologies Staff Engineer

GOODRICH AEROSTRUCTURES

Collaborative PLM: Networking minds to speed up innovation

CATIA leverages the power of 3D as a universal media to enable all disciplines, including non-engineering collaborators such as marketing or purchasing, to participate in the product creation process in order to accelerate decision making and drive innovation.

In addition, CATIA provides a single platform for multi-discipline collaboration, binding everyone in a manufacturer's engineering and production teams together in a constant, dynamic information space.

This means that ideas can flow easily, the product can be built and shared in real time, engineers can talk to factory designers as a concurrent development stream, errors can be quickly corrected, and everyone in the value chain can be kept up-to-date.

“With CATIA, it's one click to move from design to analysis and then another click to move to NC programming. That's invaluable because each one of our engineers performs all three tasks, and they only have to learn one user interface (...) It has cut at least 50% off our development times.”

Steve Oliver
Director of Design Services

EVERNHAM

Accelerating the adoption of CATIA PLM for business transformation

In conjunction with DELMIA for virtual production, SIMULIA for virtual testing, and ENOVIA for global collaborative lifecycle management, CATIA is a key component of Dassault Systèmes' collaborative PLM solutions.

Long perceived as a high-end initiative dedicated to large corporations and projects, PLM is now widely recognized for the value it brings to companies of all sizes. Designed specifically for small and medium businesses (SMBs), CATIA PLM Express provides smaller companies with an affordable and easy access to PLM so that they can also take advantage of collaboration to promote innovation and competitiveness.

CATIA PLM Express delivers a pragmatic, role-based approach mapped with specific industry and job-related requirements so that SMBs can easily take their first steps in transforming their business successfully through PLM. It provides the right tools for the right people and grows with them one step after another as their business needs evolve.

MACCHINE AGRICOLE

“With CATIA PLM Express, we are taking our first steps with PLM. This solution brings us all of the functionality and benefits of CATIA perfectly adapted to our specific business needs and the company's organization.”

Mr Zanon
founder of Zanon



“PLM changes the way you do things. It is a philosophy not just a tool. We had a vision. Dassault Systèmes helped us implement it.”

Walter Knoblauch
PLM Manager

SCHULER

As the virtual world contributes to making the physical world right the first time, PLM has entered the bloodstream of major manufacturers as an indispensable business transformation to create top line value. Pioneer companies are now driving this transformation since it is ideally suited to the challenges of pervasive innovation.

Deploying CATIA as your core PLM system to accelerate innovation, design, and manufacturing is not a matter of installing a new toolset, but changing the way your company functions. It requires a new vision of how a business can operate, driven by managing intellectual assets rather than data. The CATIA portfolio of products and services is designed to simplify the dissemination of such value-creation thinking throughout your company.

“DS PLM allows our diverse organization to operate as one, with the efficiency and visibility needed to deliver maximum value to our customers.”

Jim Orchard, President,
Faurecia North America