SOLIDWORKS

*This information applies to **3D**EXPERIENCE SOLIDWORKS and SOLIDWORKS with Cloud Services.*

CONNECT YOUR TEAMS, DATA, AND PROCESSES ALL IN ONE PLACE IN THE CLOUD

Deliver innovative products faster with the industry-standard SOLIDWORKS® 3D CAD solution, connected to the 3DEXPERIENCE® **platform, complete with built-in robust collaboration and product lifecycle management capabilities in the cloud.**
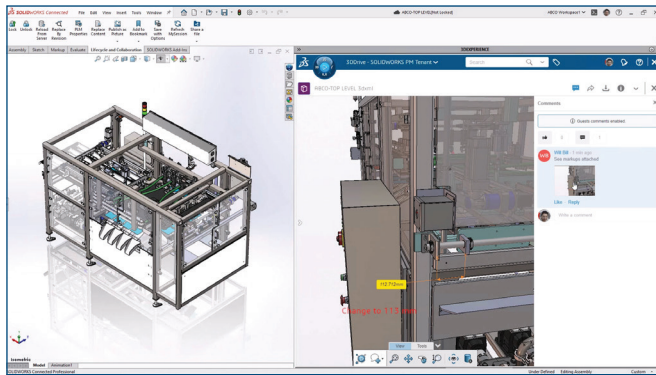
OVERVIEW

With all data saved securely on the **3D**EXPERIENCE platform, a cloud-based product development environment, your design and engineering teams can access, share, and manage your product information securely at any time, from anywhere, and on any device. Collaborate in real time across disciplines, departments, and your entire business ecosystem, including customers, partners, and suppliers. All platform solutions work together seamlessly and provide a consistent user experience so you can design, simulate, manufacture, and manage your products in one place, on the platform. Simplify license management with the ability to monitor usage, manage users, and assign and remove licenses from a single administrative dashboard.

Take advantage of the platform's capabilities: robust collaboration and product lifecycle management, powerful parametric and freeform modeling, immersive photo rendering, and insightful structural simulation. The solutions come with on-demand learning courses, access to a vibrant online community, and support from your local reseller.

KEY CAPABILITIES

Collaborative: Work together across disciplines to attain objectives more effectively from anywhere, on any device

- Collaborate instantly with interactive dashboards, social communities, activity streams, chat, and video.

- Share and mark up 3D designs in the cloud, with no need to download them.

- Accelerate project planning and brainstorming with visual tools.

Organized: Secure data and manage the product life cycle on a CAD-aware cloud platform

- Store product data in a secure, centralized location and access it from any device.

- Manage CAD data, simulation models, and documentation across disciplines.

- Reduce conflicting edits with revision control and streamline workflows.

- Efficiently work with multi-CAD product structures in one place.

Powerful: Create production-ready 3D modeling and manufacturing documentation

- Build large, complex 3D models quickly by leveraging design reuse, automation, and intelligent CAD libraries.

- Accelerate design with tools for sheet metal, plastics, weldments, molds, ECAD-MCAD, and cable routing.

- Create organic shapes with browser-based freeform modeling.

- Generate production-ready 2D drawings or use intelligent, automated 3D dimensioning.

- Check manufacturability and cost with design verification tools.

Insightful: Validate the performance of your products before going to manufacturing

- Use Finite Element Analysis (FEA) methods for stress and deformation analysis of parts and assemblies.

- Simulate assembly motion in the cloud to study kinematics, component interference, and performance.

- Analyze structural and thermal loads with FEA and linear stress analysis.

- Explore structural requirements and optimal material distribution with Design Guidance before creating geometry.

Immersive: Engage customers with 3D experiences from virtual reality to the web

- Create and share photorealistic renders, animations, and VR experiences for feedback, design decisions, and customer engagement.

- Produce interactive presentations and technical illustrations to showcase product values and guide usage.

Accelerated: Reduce programming time with automation and toolpath sequence reuse

- Create and validate 2.5- and 3-axis NC machining programs, ensuring accuracy and reducing delays with machine simulation.

Supported: Get up to speed fast with training, community, and support resources

- Interact with peers in a vibrant community and access personalized support from your local reseller.

- Improve your skills with a library of over 200 learning modules comprising thousands of on-demand lessons.

Our **3D**EXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating virtual twin experiences of the real world with our **3D**EXPERIENCE platform and applications, our customers can redefine the creation, production and life-cycle-management processes of their offer and thus have a meaningful impact to make the world more sustainable. The beauty of the Experience Economy is that it is a human-centered economy for the benefit of all – consumers, patients and citizens.

Dassault Systèmes brings value to more than 300,000 customers of all sizes, in all industries, in more than 150 countries. For more information, visit **www.3ds.com**.

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