



3DEXPERIENCE[®] SOLIDWORKS[®] OFFERS

KEY CAPABILITIES	MOST POPULAR		
	3DEXPERIENCE SOLIDWORKS Standard Offer	3DEXPERIENCE SOLIDWORKS Professional Offer	3DEXPERIENCE SOLIDWORKS Premium Offer

3D CAD DESIGN

<p>Part and Assembly Modeling Handle all aspects of your part and assembly modeling and transform ideas and concepts into virtual 3D models.</p>	●	●	●
<p>2D Design Create production-ready 2D drawings that are always current and clearly communicate how to manufacture and assemble your designs.</p>	●	●	●
<p>Productivity Tools Easily analyze, compare, check and report on your designs.</p>	●	●	●
<p>Design Reuse and Automation Simplify the reuse of existing design data with search, automation and configuration tools that help you speed up the creation of new designs.</p>	●	●	●
<p>Interference Check Before going into production, verify in 2D and 3D that your parts and assemblies will fit, assemble and operate correctly.</p>	●	●	●
<p>Manufacturability Checks Review your designs for Draft, Undercut, Thickness and Hole Alignments early in the development process to ensure manufacturability.</p>	●	●	●
<p>Advanced CAD File Import/Export Convert incoming CAD data into SOLIDWORKS 3D CAD format and export SOLIDWORKS data to other CAD applications using 30+ translators.</p>	●	●	●
<p>Extended Reality (XR) Exporter Export CAD data for AR, VR and web viewing experiences while retaining geometry, appearance, motion studies, display states and more.</p>	●	●	●
<p>CAD Standards Checking (Design Checker) Establish design standards and check drawings (or models) against them to create uniform designs and documentation.</p>		●	●

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3D CAD DESIGN

Automated Tolerance Stackup Analysis (TolAnalyst™)

Automatically check the effects of tolerances on parts and assemblies to ensure consistent fit of components and verify tolerancing schemes before manufacturing your designs.



Design for Cost (SOLIDWORKS Costing)

Continuously check your designs against cost targets with automatic cost estimation tools fully integrated within the 3D CAD solution.



Reverse Engineering (ScanTo3D)

Recreate designs with the ability to import, edit, evaluate and create solid geometry from scanned point-cloud and mesh data.



ECAD/MCAD Collaboration

Share, compare, update, and track electrical design data so users can quickly resolve electrical-mechanical integration and collaboration issues.



Advanced Surface Flattening

Flatten complex, nondevelopable surfaces typically encountered in products made from textiles, like clothing, or sheet metal, like metal stampings.



Pipe and Tube Routing

Simplify the design and documentation of piping and tubing for a wide range of systems and applications, including machinery, skid systems and process plant piping.



Electrical Cable and Wiring Harness Routing

Quickly add cables, wires and harnesses to your design. Create flattened drawing representations of your 3D cables and harnesses with wire lists, connection information and bills of materials.



Rectangular and Other Section Routing

Route rectangular and round sections that include ducting, cable trays, conveyors, material handling chutes and other systems.



RENDERING

GPU Rendering

Utilize the full power of your hardware with GPU rendering capabilities.



Artificial Intelligence (AI) Denoiser

Leverage Artificial Intelligence to eliminate noise from your renders with a single checkbox, dramatically boosting your render speed.



Full Animation Suite

Tell a more compelling story with your CAD data by using the full Animation suite. Easily animate exploded views, appearance properties, cameras, and much more to create photo-quality videos to showcase even the most complex projects.



Immersive Virtual Reality

Create immersive Virtual Reality experiences with 360-degree cameras and interactive output.



Advanced Lighting Techniques for Sun and Sky

Simulate the lighting at a specific location and time, and create sun study animations.



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Physics Simulation

Create more realistic and immersive content with rigid body and vehicle driving physics simulations.



SIMULATION

Time-Based Motion Analysis

Realistically visualize your product moving throughout its operational cycle world, measure the forces and loads on your design, and use the data to correctly size motors and ensure product performance, quality and safety.



Linear Static Analysis for Parts and Assemblies

Calculate the stresses and deformations of geometry using Finite Element Analysis (FEA) methods, and running linear stress analysis to determine the response of parts and assemblies.



PARAMETRIC MODELING IN THE CLOUD

Parametric Modeling in the Cloud

Create, review and evaluate 3D models through an intuitive parametric modeling solution that interacts seamlessly with the 3D CAD solution.



Manufacturing Definition in the Cloud

Define, organize, and communicate key manufacturing information such as dimensions, tolerances, and notes all from a web browser with a combined 2D drawing and model-based solution.



SUBDIVISION MODELING IN THE CLOUD

Subdivision Modeling in the Cloud

Create organic shapes quickly and easily with an intuitive modeling solution that interacts seamlessly with the 3D CAD solution.



DATA MANAGEMENT AND COLLABORATION IN THE CLOUD

Data Access and Management in the Cloud

Store, share, access and manage the latest product design information from a centralized, secure location.



Share and Markup in the Cloud

Invite anyone - inside or outside your organization, to view and mark up your 3D designs in the cloud, directly from within SOLIDWORKS. Getting real-time feedback and iterating on your work is as easy as sharing a link from within SOLIDWORKS, with no download required.



Product Lifecycle Management in the Cloud

Manage the lifecycle of any type of content, such as CAD files, simulation models and documentation, across disciplines and CAD solutions. Track issues, changes and routes, and reduce conflicting edits from multiple contributors with revision control.



Collaboration in the Cloud

Collaborate in real time using configurable dashboards, social communities, Kanban-style task management, activity streams, persistent chat and video calls. Easily search, visualize, explore and mark up SOLIDWORKS and other files directly in your browser.



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Governance in the Cloud
 Monitor license usage, manage members, and assign and remove licenses from a single administrative dashboard, lowering administrative overhead. Easily stay up-to-date and benefit from the latest enhancements.



TRAINING AND SUPPORT

Training and Support
 Get up to speed fast using online training content, a vibrant community and support from your local reseller.



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

Dassault Systèmes, the 3DEXPERIENCE® Company, 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 3DEXPERIENCE 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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