3DEXPERIENCE® **SOLIDWORKS**® **Offers**

KEY CAPABILITIES	3DEXPERIENCE SOLIDWORKS Standard	3DEXPERIENCE SOLIDWORKS Professional	3DEXPERIENCE SOLIDWORKS Premium	3DEXPERIENCE SOLIDWORKS Ultimate
CLOUD COLLABORATION				
Cross-Discipline Collaboration 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, from any device.	●	●	●	●
Share and Markup Invite anyone, inside or outside your organization, to view, share, and mark up your 3D designs in the cloud, directly 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.	●	●	●	●
Project and Resource Management Shorten time to market with a collaborative project planning, monitoring, and execution solution, connecting your design data with all project members, tasks, deliverables, and communications.				●
Lean Teamwork Put lean principles into action to address operational waste, variability, and meeting efficiency with a new, visual way to plan, facilitate, and complete objectives.				●
CLOUD DATA MANAGEMENT				
Store and Revise Utilize secure cloud storage that's purpose-built with CAD relationships and collaboration in mind. Save your data to the cloud right from SOLIDWORKS. Lock designs to ensure no one overwrites your work, easily manage revisions, and create detailed markups with redline, measurements, and annotations.	●	●	●	●
Data and Lifecycle Management Manage the life cycle of any type of content, such as CAD files, simulation models, and documentation, across disciplines and CAD solutions. Assign tasks, track issues, communicate and coordinate design changes, manage reviews and approvals, and capture decisions.	●	●	●	●

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CLOUD DATA MANAGEMENT				
Administration 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.	●	●	●	●
Release Management Ensure consistent product quality by providing a shared product definition, maximizing data reuse, reducing the complexity of product structure, and aligning with corporate standards.				●
Product Structure Management Reduce development time with the ability to create, modify, and explore multi-CAD product structures in a single context, reducing design iterations by making the review of designs and proposed changes universally accessible to stakeholders.				●
CLOUD 3D DESIGN AND MODELING				
Parametric Modeling Create, review, and evaluate 3D models through an intuitive parametric modeling solution that interacts seamlessly with the 3D CAD solution.	●	●	●	●
2D Drawings and 3D Manufacturing Documentation 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/Freeform Modeling Create organic shapes quickly and easily with an intuitive modeling solution that interacts seamlessly with the 3D CAD solution.		●	●	●
Sheet Metal Design Build components, assemblies, and enclosures using associative parametric sheet metal design capabilities.				●
Mold Design Provide specialized, automated, easy-to-use capabilities for the design of mold cores, cavities, and inserts.				●
Weldments Design Create structure members; add plates, gussets, and end caps; and generate a manufacturing cut list with associative, feature-based frame design capabilities.				●
3D DESIGN AND MODELING				
Part and Assembly Modeling Handle all aspects of your part and assembly modeling and transform ideas and concepts into virtual 3D models.	●	●	●	●
Specialized Design Tools Speed up the design of sheet metal, plastic and cast parts, weldments, molds, tools, and dies.	●	●	●	●
2D Drawings and 3D Manufacturing Documentation Create production-ready 2D drawings or go drawingless and use intelligent, automated 3D dimensioning and tolerancing capabilities.	●	●	●	●
Productivity Tools Easily analyze, compare, check, and report on your designs.	●	●	●	●

KEY CAPABILITIES

3D DESIGN AND MODELING

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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.	●	●	●	●
Industry 3D Component Catalog Access over 50 million components from manufacturers worldwide through our online catalog.	●	●	●	●
Interference Checks Before going into production, verify in 2D and 3D that your parts and assemblies will fit, assemble, and operate correctly.	●	●	●	●
Manufacturability Checks Review your designs for draft, undercut, thickness, hole alignments, component clearance, and more, earlier in the development process to ensure manufacturability.	●	●	●	●
Advanced CAD File Import/Export Convert incoming CAD data into SOLIDWORKS CAD format and export SOLIDWORKS data to other CAD applications using over 30 different translators.	●	●	●	●
Linked CAD Models Use models saved in other CAD formats directly inside SOLIDWORKS assemblies, parts, and drawings while maintaining associativity with the original CAD model.	●	●	●	●
AR/VR Exporter Export CAD data for AR, VR, and web viewing experiences while retaining geometry, appearance, motion studies, display states, and more.	●	●	●	●
ECAD/MCAD Collaboration Share, compare, update, and track electrical design data so users can quickly resolve electrical-mechanical integration and collaboration issues.	●	●	●	●
Intelligent CAD Libraries Easily find, customize, and share hundreds of thousands of prebuilt industry-standard fasteners that configure on the fly and assemble automatically in your design.		●	●	●
CAD Standards Checking Establish design standards and check drawings and models against them to create uniform designs and documentation.		●	●	●
Automated Tolerance Stackup Analysis Automatically check the effects of tolerances on parts and assemblies to ensure consistent fit of components and verify tolerancing schemes before manufacturing your designs.		●	●	●
Cost Analysis Continuously check your designs against cost targets with automatic cost estimation tools fully integrated within the 3D CAD solution.		●	●	●
Reverse Engineering Recreate designs with the ability to import, edit, evaluate, and create solid geometry from scanned point-cloud and mesh data.		●	●	●
Advanced Surface Flattening Flatten complex, nondevelopable surfaces typically encountered in products made from textiles, like clothing, or sheet metal, like metal stampings.			●	●

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3D DESIGN AND MODELING				
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.			●	●
CLOUD-IMMERSIVE EXPERIENCES				
Training and User Guides Create stunning digital content including interactive product presentations and technical illustrations to showcase product values, enable partners, guide use, and win customers.				●
Virtual Experiences Engage customers with 3D experiences from virtual reality to the web by leveraging virtual twins.				●
Rendering Easily create and share photorealistic renderings of your product to promote a design and deliver stunning content for customer engagements.				●
RENDERING				
Basic Animation and Visualization Move assemblies by dragging components or using motors, create CAD videos, and generate basic CAD renderings and 3D walk-throughs.	●	●	●	●
GPU Rendering Utilize the full power of your hardware with GPU rendering capabilities.		●	●	●
Artificial Intelligence 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.		●	●	●
Physics Simulation Create more realistic and immersive content with rigid-body and vehicle-driving physics simulations.		●	●	●

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SIMULATION				
Linear Static Analysis for Parts and Assemblies Calculate the stresses and deformations of geometry by using Finite Element Analysis (FEA) methods and running linear stress analysis to determine the response of parts and assemblies.			●	●
Motion Analysis Realistically visualize your product moving throughout its operational cycle, measure the forces and loads on your design, and use the data to correctly size motors and ensure product performance, quality, and safety.			●	●
Structural Analysis for Cloud Design Explore the impact of structural and thermal loads on your parts and assemblies by using Finite Element Analysis (FEA) and running linear stress analysis.				●
Motion Analysis for Cloud Design Understand the impact of assembly motion on your design with motion simulation in the cloud. Study the kinematics and dynamic behavior of your designs by checking the range of motion, component interference, and performance.				●
TRAINING AND SUPPORT				
Support Interact with peers in a vibrant community and access personalized support from your local reseller.	●	●	●	●
Learning Experiences 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-cyclemanagement 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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