



SOLIDWORKS® PRODUCT MATRIX

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

KEY CAPABILITIES	3DEXPERIENCE SOLIDWORKS Standard and SOLIDWORKS Standard	3DEXPERIENCE SOLIDWORKS Professional and SOLIDWORKS Professional	3DEXPERIENCE SOLIDWORKS Premium and SOLIDWORKS Premium	3DEXPERIENCE SOLIDWORKS Ultimate and 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.	●	●	●	●
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.	●	●	●	●
ECAD/MCAD Collaboration Share, compare, update, and track electrical design data, locally or in the cloud, so you can quickly resolve electrical-mechanical design issues.	●	●	●	●
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 lifecycle of any type of content, reduce design change conflicts with revision control, and streamline design change and approval workflows.	●	●	●	●

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CLOUD DATA MANAGEMENT				
Administration Easily upgrade software, manage users, and assign and remove licenses all from a single dashboard.	●	●	●	●
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 design and proposed changes universally accessible to stakeholders.				●
LOCAL DATA MANAGEMENT*				
Local Data Management Manage project data and control design revisions and access to files.	● *	● *	● *	● *
CLOUD 3D DESIGN AND MODELING				
Parametric Modeling Create, review, and evaluate 3D models using an intuitive 3D CAD solution.	● **	● **	● **	●
2D Drawings and 3D Manufacturing Documentation Combine 3D model-based definition and 2D drawing-based capabilities in one integrated solution. Easily dimension and annotate 3D models and quickly produce 2D drawings from them in a few clicks.	● **	● **	● **	●
Subdivision/Freeform Modeling Create difficult-to-model organic shapes quickly and easily with an intuitive modeling solution that works seamlessly with our parametric 3D design tools.		● **	● **	●
Specialized Design Tools Speed up the design of sheet metal, weldments, and molds.				●
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.	●	●	●	●

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3D DESIGN AND MODELING				
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.	●	●	●	●
Resolving Manufacturing Issues Before Going to Manufacturing Verify in 2D and 3D that your parts and assemblies will fit, assemble, and move correctly. Review your designs for draft, undercut, thickness, hole alignments, component clearance, and more, ensuring manufacturability.	●	●	●	●
Advanced CAD File Import/Export Convert incoming CAD data and export SOLIDWORKS data to other CAD applications using over 30 provided 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.	●	●	●	●
Industry 3D Component Catalog Access over 50 million components from manufacturers worldwide through our online catalog.	●	●	●	●
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 and Drawings 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.	●	●	●	●
Manufacturing 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 often encountered in textiles and metal stampings.		●	●	●
Pipe and Tube Routing Speed up design and documentation of piping and tubing systems.		●	●	●
Electrical Cable and Wiring Harness Routing Speed up 3D electrical routing design and the creation of flattened harness drawings for manufacturing.		●	●	●
Duct and Tray Routing Route rectangular and round sections that include ducting, cable trays, conveyors, material handling chutes, and other systems.		●	●	●

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MARKETING				
Animation and Visualization Easily create basic CAD videos, renderings, animations, and 3D walk-throughs.	●	●	●	●
AR/VR Exporter Export CAD data for AR, VR, and web viewing experiences while retaining geometry, appearance, motion studies, display states, and more.	●	●	●	●
Advanced Photorealistic Rendering with Artificial Intelligence Bring your products to life with stunning photorealistic renderings and leverage Artificial Intelligence to dramatically reduce render times.		●	●	●
Advanced Lighting Techniques for Sun and Sky Simulate the lighting at a specific location and time, and create sun study animations.		●	●	●
Advanced Photorealistic Animations and Immersive Virtual Reality Easily animate exploded views, cameras, and much more to create photo-realistic videos. Create immersive virtual reality experiences with 360-degree cameras and interactive output.	● **	● **	● **	● **
User Guides, Training Manuals, and Assembly Documentation Create outstanding digital content including interactive product presentations and technical illustrations to showcase product values, enable partners, guide use, and win customers.				●
SIMULATION				
Linear Static Analysis for Parts and Assemblies Find the stresses and deformations of geometry using Finite Element Analysis (FEA) methods and run linear stress analysis to determine the response of parts and assemblies.			●	●
Motion Analysis Watch your design moving through its operational cycle, measure the forces and loads, correctly size motors, and ensure your design meets the desired performance goals.			●	●
MANUFACTURING				
Additive Manufacturing Prepare your models, understand the constraints of additive manufacturing, and print directly to a 3D printer from SOLIDWORKS.	●	●	●	●
Entry-Level 2.5-Axis Programming Create 2.5-axis NC machining programs, ensuring tool path accuracy.	● *	● *	● *	● *
Advanced Manufacturing and NC Programming Validate your manufacturing designs and run what-if scenarios with nesting. Empower CNC programmers with access to 2D fabrication programming, 3-axis, 3+2-axis, EDM, and machine simulation to optimize tool paths before manufacturing the parts.	● ***	● ***	● ***	●

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*** NC Programming will be included starting with R2025x GA.

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TRAINING AND SUPPORT

Support

Access personalized, high-quality support from your certified local value-added sales partner and interact with peers in a vibrant community.



Training

Improve your skills with hundreds of lessons covering an array of SOLIDWORKS capabilities, all available online.



Our **3DEXPERIENCE®** 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 **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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