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3DEXPERIENCE SOLIDWORKS 2023
FEATURE MATRIX

	STANDARD	PROFESSIONAL	PREMIUM
3D CAD DESIGN			
Part and Assembly Modeling Handle all aspects of your part and assembly modeling and transform ideas and concepts into virtual 3D models.	✔	✔	✔
2D Drawings Create production-ready 2D drawings that are always current and clearly communicate how to manufacture and assemble your designs.	✔	✔	✔
Productivity Tools Easily analyze, compare, check and report on your designs.	✔	✔	✔
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.	✔	✔	✔
Interference Check Before going into production, verify in 3D that your parts and assemblies will fit, assemble and operate correctly.	✔	✔	✔
Manufacturability Checks Review your designs for Draft, Undercut, Thickness and Hole Alignments early in the development process to ensure manufacturability.	✔	✔	✔
Data Update Set up tasks to automatically update legacy data and take advantage of the newest capabilities in later versions of SOLIDWORKS.	✔	✔	✔
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.	✔	✔	✔
Standard Fastener Library Use thousands of pre-built, customizable 3D components available in a standard fastener library.		✔	✔
CAD Standards Checking (Design Checker) Establish design standards and check drawings (or models) against them to create uniform designs and documentation.		✔	✔

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Complete product development solutions at **www.goengineer.com**.

3DEXPERIENCE SALES
info@goengineer.com
(800) 688-3234

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3D CAD DESIGN (cont.)			
Advanced Task Scheduling			
Save time setting up and executing advanced SOLIDWORKS tasks such as outputting drawings and exporting neutral CAD formats.		✔	✔
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 manufacture.		✔	✔
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.		✔	✔
Advanced Photorealistic Rendering			
Easily create photographic-quality images from your 3D models early in the design process to get feedback and make informed design decisions.		✔	✔
ECAD/MCAD Collaboration (CircuitWorks)			
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.			✔
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.			✔

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SIMULATION (cont.)			
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.			✔
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.	✔	✔	✔
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.	✔	✔	✔
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.	✔	✔	✔
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.	✔	✔	✔
3DEXPERIENCE Marketplace			
Access industrial service providers online, download 3D components from supplier catalogs, and find engineering help for your most challenging design tasks.	✔	✔	✔
TRAINING AND SUPPORT			
Training and Support			
Get up to speed fast using online training content, a vibrant community, and support from GoEngineer.	✔	✔	✔
GoEngineer-Exclusive Customer Services			
8am-8pm (EST) phone support, complimentary Application Mentoring Sessions, customer portal for quick & easy self-service, and online customer community.	✔	✔	✔

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