3DEXPERIENCE SOLIDWORKS FEATURE MATRIX

Feature	Description	STANDARD	PRO	PREMIUM
Part and Assembly Modeling	*Handle all aspects of your part and assembly modeling.*	✓	✓	✓
2D Drawings	*Create production-ready 2D drawings that are always current and clearly communicate how your design should be manufactured and assembled.*	✓	✓	✓
Design Reuse and Automation	*A range of tools to help reuse existing 3D CAD models and 2D drawings.*	✓	✓	✓
Interference Check	*Verify that your parts and assemblies will fit, assemble, and operate correctly before starting production.*	✓	✓	✓
Manufacturability Checks	*Tools for reviewing your design for manufacturability early in the development process.*	✓	✓	✓
Productivity Tools	*Tools for productivity, including design analysis, comparison, checking, and reporting.*	✓	✓	✓
Advanced CAD File Import/Export and Interconnect	*3D Interconnect opens most major CAD formats natively without conversion. Also includes 30+ CAD translators for import/export.*	✓	✓	✓
Xtended Reality (XR) Exporter	*Export CAD for AR, VR, and web viewing while retaining appearance, motion studies, display states, etc.*	✓	✓	✓
Design for Cost (SOLIDWORKS Costing)	*Easily monitor manufacturing costs as you design and automate the quoting process with this fully-integrated tool.*		✓	✓
CAD Standards Checking (Design Checker)	*Establish design standards and check drawings (or models) to create consistent and complete designs and documentation.*		✓	✓
Automated Tolerance Stack-Up Analysis (TolAnalyst)	*Automatically check the effects of tolerances on parts and assemblies to ensure consistent fit of components and to verify tolerancing schemes before a product goes into production.*		✓	✓
Advanced Photorealistic Rendering (SOLIDWORKS Visualize)	*Create compelling, photo-quality visual content of your 3D designs with ease and flexibility for early feedback, marketing, and other purposes.*		✓	✓
Reverse Engineering (ScanTo3D)	*Import, edit, evaluate, and create solid geometry from scanned point cloud and mesh data.*		✓	✓
Time-based Motion Analysis	*Visualize and evaluate how your product will perform and move throughout its operational cycle.*			✓
Linear Static Analysis for Parts and Assemblies	*Linear stress analysis (FEA) to calculate the stresses and deformations of your designs early, before any prototypes are made.*			✓
Pipe and Tube Routing	*Simplify the design and documentation of piping and tubing for a wide range of systems and applications.*			✓
Electrical Cable and Wiring Harness Routing	*Build a path of pipes, tubes, or electrical cables for assemblies in a special routing subassembly.*			✓
Advanced Surface Flattening	*Advanced surface flattening functionality provides control and flexibility for flattening complex surfaces such as sheet metal stock.*			✓
Rectangular and Other Section Routing	*Route rectangular and round sections that include ducting, cable trays, conveyors, material handling chutes, and other systems.*			✓
On-Cloud Parametric Modeling	*Create 3D models with a seamlessly interoperative, intuitive parametric modeler.*	✓	✓	✓
On-Cloud Subdivision Modeling	*Create organic shapes quickly and easily with a seamlessly interoperative, intuitive subdivision modeler.*		✓	✓
On-Cloud PDM	*Store, share, access and manage the latest product design information from a centralized, secure location.*	✓	✓	✓
On-Cloud PLM	*Manage the lifecycle of any type of content (CAD files, simulations, documentation, etc.) Track issues, changes and routes, and reduce conflicting edits from multiple contributors with revision control.*	✓	✓	✓
On-Cloud 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.*	✓	✓	✓
On-Cloud Governance	*Monitor and manage licenses and users from a single administrative dashboard, lowering administrative overhead. Easily stay up-to-date and benefit from the latest enhancements.*	✓	✓	✓
Training and Support	*Get up to speed fast using online training content, a vibrant community, and support from CATI.*	✓	✓	✓