

SOLIDWORKS 3DCAD Product Matrix

| | <u>3DEXPERIENCE SOLIDWORKS STANDARD</u> | <u>SOLIDWORKS STANDARD</u> | <u>3DEXPERIENCE SOLIDWORKS PROFESSIONAL</u> | <u>SOLIDWORKS PROFESSIONAL</u> | <u>3DEXPERIENCE SOLIDWORKS PREMIUM</u> | <u>SOLIDWORKS PREMIUM</u> |
|--|---|----------------------------|---|--------------------------------|--|---------------------------|
| Licensing Type | Named User – Yearly License | Perpetual License | Named User – Yearly License | Perpetual License | Named User – Yearly License | Perpetual License |
| <u>3D CAD DESIGN</u> | | | | | | |
| Part and Assembly Modelling Handle all aspects of your part and assembly modelling and transform ideas and concepts into virtual 3D models. | Yes | Yes | Yes | Yes | Yes | Yes |
| 2D Design Create production-ready 2D drawings that are always current and clearly communicate how to manufacture and assemble your designs. | Yes | Yes | Yes | Yes | Yes | Yes |
| Productivity Tools Easily analyse, compare, check and report on your designs. | Yes | Yes | Yes | Yes | Yes | Yes |
| 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. | Yes | Yes | Yes | Yes | Yes | Yes |
| Interference Check Before going into production, verify in 2D and 3D | Yes | Yes | Yes | Yes | Yes | Yes |

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| 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. | Yes | Yes | Yes | Yes | Yes | Yes |
| 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. | Yes | Yes | Yes | Yes | Yes | Yes |
| Extended Reality (XR) Exporter Export CAD data for AR, VR and web viewing experiences while retaining geometry, appearance, motion studies, display states and more. | Yes | Yes | Yes | Yes | Yes | Yes |
| CAD Standards Checking (Design Checker) Establish design standards and check drawings (or models) against them to create uniform designs and documentation. | No | No | Yes | Yes | Yes | Yes |
| 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. | No | No | Yes | Yes | Yes | Yes |

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| Design for Cost (SOLIDWORKS Costing) Continuously check your designs against cost targets with automatic cost estimation tools fully integrated within the 3D CAD solution. | No | No | Yes | Yes | Yes | Yes |
| Reverse Engineering (ScanTo3D) Recreate designs with the ability to import, edit, evaluate and create solid geometry from scanned point-cloud and mesh data. | No | No | Yes | Yes | Yes | Yes |
| 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. | No | No | Visualize Professional | Visualize Standard | Visualize Professional | Visualize Standard |
| • Import SOLIDWORKS Animations and Motion Studies | No | No | Yes | No | Yes | No |
| • Full Animation Suite | No | No | Yes | No | Yes | No |
| • Animation Ribbon | No | No | Yes | No | Yes | No |
| • Visualize Boost Support | No | No | Yes | No | Yes | No |
| • Browser-based Interactive Image and Panoramic Outputs | No | No | Yes | No | Yes | No |
| • Customizable Photographic Camera Filters | No | No | Yes | No | Yes | No |
| • Integrated Render Queue | No | No | Yes | No | Yes | No |
| • Configurations | No | No | Yes | No | Yes | No |
| • New Area Lights and Light Placement | No | No | Yes | No | Yes | No |
| • Create VR Content | No | No | Yes | No | Yes | No |
| Advanced Surface Flattening | No | No | No | No | Yes | Yes |

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| 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. | No | No | No | No | Yes | Yes |
| 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. | No | No | No | No | Yes | Yes |
| Rectangular and Other Section Routing Route rectangular and round sections that include ducting, cable trays, conveyors, material handling chutes and other systems. | No | No | No | No | Yes | Yes |
| <u>SIMULATION</u> | | | | | | |
| 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. | No | No | No | No | Yes | Yes |
| Linear Static Analysis for Parts and Assemblies | No | No | No | No | Yes | Yes |

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| 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. | | | | | | |
| ADDITIONAL CAD SOFTWARE IN THE CLOUD | 1 | 0 | 2 | 0 | 2 | 0 |
| PARAMETRIC MODELING IN THE CLOUD (X-Design) 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 | Yes | No | Yes | No | Yes | No |
| SUBDIVISION MODELING IN THE CLOUD (X-Shape) Subdivision Modeling in the Cloud Create organic shapes quickly and easily with an intuitive modeling solution that interacts seamlessly with the 3D CAD solution. | No | No | Yes | No | Yes | No |
| 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. | Yes | No | Yes | No | Yes | No |
| 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, | Yes | No | Yes | No | Yes | No |

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| 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. | Yes | No | Yes | No | Yes | No |
| 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. | Yes | No | Yes | No | Yes | No |

NOTE:

License Type

- **SOLIDWORKS Standard/ Professional/ Premium** – Standalone & Perpetual License
- **3DEXPERIENCE SOLIDWORKS Standard/ Professional/ Premium** – Yearly – Names User License

Supported Hardware:

- **SOLIDWORKS Standard/ Professional/ Premium** - Windows based Workstation (Windows 10 64Bit or Above)
- **3DEXPERIENCE SOLIDWORKS Standard/ Professional/ Premium** - SOLIDWORKS CAD, Simulation and Visualize Professional runs on Windows based



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