S SOLIDWORKS



SOLIDWORKS FEATURE MATRIX

	#	STANDARD	PRO	PREMIUM
SOLIDWORKS 3D CAD	Create sophisticated part and assembly designs quickly and efficiently.	~	<	~
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.	~	~	~
Collaborate and Share CAD Data	Product collaboration tools to aid teamwork amongst project stakeholders, safely share data beyond the organization, manage project data, and control design revisions.	~	~	~
Interference Check	Verify that your parts and assemblies will fit, assemble, and operate correctly before starting production.	~	~	~
First-Pass Analysis Tools	Perform basic stress analysis on individual parts.	~	~	~
CAM Programming (SOLID-WORKS CAM)	Powered by CAMWorks®, an integrated 2.5-axis milling and 2-axis lathe programming solution. Included with active SOLIDWORKS subscription.	~	~	~
Design for Manufacturing (DFM)	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.	~	~	~
CAD Libraries (SOLIDWORKS Toolbox)	Easily locate, download, save, and share prebuilt 3D CAD models and commonly reused CAD data.		~	~
Design for Cost (SOLIDWORKS Costing)	Easily monitor manufacturing costs as you design and automate the quoting process with this fully-integrated tool.		~	~
ECAD/MCAD Collaboration (CircuitWorks)	Share, compare, update, and track electrical design data to quickly resolve electrical-mechanical integration and collaboration problems with this CircuitWorks™ tool.		~	~
CAD Standards Checking (Design Checker)	Establish design standards and check drawings (or models) to create consistent and complete designs and documentation.		~	~
Collaboration with eDrawings Professional	Quickly and accurately view, measure, and mark-up 3D models and 2D drawings in an email-ready format to improve communication between designers, manufacturers, and customers.		~	~
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.		~	~
SOLIDWORKS File Management	SOLIDWORKS PDM Standard provides CAD file management that enables individual users and small workgroups to manage project data, control design revisions, and control access to files.		~	~
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.			~