

SOLIDWORKS

PRODUCT MATRIX



	SOLIDWORKS STANDARD	SOLIDWORKS PROFESSIONAL	SOLIDWORKS PREMIUM
Ease of Use	✓	✓	✓
Part and Assembly Modeling	✓	✓	✓
2D Drawings	✓	✓	✓
Design Reuse and Automation	✓	✓	✓
Animation and Visualization	✓	✓	✓
Interference Check	✓	✓	✓
Collaborate and Share CAD Data	✓	✓	✓
Basic Analysis Tools	✓	✓	✓
Design for Manufacturing	✓	✓	✓
Advanced CAD File Import (3D Interconnect)	✓	✓	✓
SOLIDWORKS CAM Standard	✓	✓	✓
CAD Libraries (Toolbox)		✓	✓
Advanced Design for Manufacturing		✓	✓
Design for Cost/Quoting (SOLIDWORKS Costing)		✓	✓
Productivity Tools		✓	✓
Advanced Photo-realistic Rendering (Photoview 360)		✓	✓
SOLIDWORKS Visualize Standard		✓	✓
CAD Standards Checking (Design Checker)		✓	✓
SOLIDWORKS File Management (PDM Standard)		✓	✓
eDrawings Professional		✓	✓
ECAD/MCAD Collaboration (CircuitWorks)		✓	✓
Reverse Engineering (Scanto3D)		✓	✓
Motion Analysis			✓
Structural Part and Assembly Analysis			✓
Automated Tolerance Stack-Up Analysis (TolAnalysis)			✓
Routing of Pipes and Tubes			✓
Routing of Electrical Cabling and Wiring Harnesses			✓
Advanced Surface Flattening			✓
Sustainability			✓
Catia V5 Import			✓

SOLIDWORKS SIMULATION

PRODUCT MATRIX



	SIMULATION STANDARD	SIMULATION PROFESSIONAL	SIMULATION PREMIUM
Fully Embedded Analysis ¹	✓	✓	✓
Communication ¹	✓	✓	✓
Static Stress Analysis ¹	✓	✓	✓
Fatigue Studies	✓	✓	✓
Kinematic Motion (Time-Based) ¹	✓	✓	✓
Trend Tracker	✓	✓	✓
Detecting Unconstrained Bodies	✓	✓	✓
Kinematic Motion (Event-Based)		✓	✓
Submodeling		✓	✓
2D Simplification		✓	✓
Optimization		✓	✓
Thermal Analysis ²		✓	✓
Buckling Analysis		✓	✓
Frequency Analysis		✓	✓
Drop Test Analysis		✓	✓
Pressure Vessel Analysis		✓	✓
Topology Study		✓	✓
Load Case Manager		✓	✓
Nonlinear Analysis			✓
Plastic Deformation/Residual Stress			✓
Composite Material Analysis			✓
Dynamic Analysis			✓
Forced Vibration Analysis			✓
Offloaded Solving			✓

¹ Capability also available in SOLIDWORKS Premium.

² Thermal analysis using CFD methodology is available in SOLIDWORKS Flow Simulation.