

	Simulation Standard	Simulation Professional	Simulation Premium
Fully Embedded Analysis <sup>1</sup>	•	•	•
Assembly and Multi-Body Static Stress Analysis <sup>1</sup>	•	•	•
Communication and Report Generation <sup>1</sup>	•	•	•
Fatigue Analysis	•	•	•
Trend Tracker	•	•	•
Kinematic Motion (Time-Based) <sup>1</sup>	•	•	•
Kinematic Motion (Event-Based)		•	•
Submodeling		•	•
2D Simplification		•	•
Optimization		•	•
Thermal Analysis <sup>2</sup>		•	•
Buckling Analysis		•	•
Frequency Analysis		•	•
Drop Test Analysis		•	•
Pressure Vessel Analysis		•	•
Load Case Manager		•	•
Shell Manager		•	•
Material Web Portal Access		•	•
Nonlinear Analysis			•
Plastic Deformation/Residual Stress			•
Plastic and Rubber Material Analysis			•
Enhanced Large Displacement Structural Analysis			•
Composite Material Analysis			•
Dynamic Analysis			•
Forced Vibration Analysis			•

## Nonlinear Dynamics



1. Feature is also included in SOLIDWORKS Premium
2. Thermal analysis using CFD methodology is also available in SOLIDWORKS Flow Simulation