

# 3DExperience SolidWorks

The 3DExperience platform is a collaborative environment to tie together all the different aspects of the engineering process and engineering business into one connected space. At its core, the 3DEXPERIENCE platform is a collection of cloud-based applications.

1. 3D Experience SolidWorks Professional - It includes all the basic functionalities of design and modeling along with basic FEA capabilities (only on parts) from the standard license. In addition to that, the professional license adds various new capabilities such as -
  - a. High-quality Rendering
  - b. e-Drawing Profession (Allows sharing to clients)
  - c. Standard part library
  - d. SolidWorks Costing
  
2. 3D Experience SolidWorks Premium - It includes all the capabilities from the professional version along with -
  - a. Advanced FEA capability with Static, Stress, and Motion analysis on both assemblies and parts
  - b. Electrical Cable Harness and Conduit Design
  - c. PCB designing

SOLIDWORKS Package Feature	SOLIDWORKS Standard	SOLIDWORKS Professional	SOLIDWORKS Premium
Ease of Use	■	■	■
Part and Assembly Modeling	■	■	■

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2D Drawings



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Design Reuse and Automation



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Animation and Visualization



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Interference Check



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Collaborate and Share CAD  
Data (3D Interconnect &  
eDrawings)



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Advanced CAD File Import



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Basic Analysis Tools  
(SimulationXpress &  
FloXpress)

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Productivity Tools



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SOLIDWORKS CAM Standard



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Design for Manufacturing



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SOLIDWORKS Visualize  
Standard (Must be on Active  
Subscription)



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CAD Libraries



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Automatic Task Scheduling and  
Batch Processing



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Design for Cost & Cost  
Estimation



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ECAD/MCAD Collaboration  
(CircuitWorks™)



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Advanced Photorealistic  
Rendering (PhotoView 360)



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CAD Standards Checking



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Automated Tolerance Stack-Up  
Analysis (TolAnalyst)



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SOLIDWORKS File  
Management



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Reverse Engineering  
(ScanTo3D)



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eDrawings® Professional

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Motion Analysis



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Structural Part and Assembly  
Analysis



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Life-Cycle Assessment (LCA)  
for Environmental Impact:  
SOLIDWORKS Sustainability



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Routing of Pipes and Tubes



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Routing of Electrical Cabling  
and Wiring Harnesses



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Routing of Rectangular and  
Other Sections



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Advanced Surface Flattening



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Assembly Level Cost Roll-Up

