



SOLIDWORKS 3D DESIGN PRODUCT MATRIX

	SOLIDWORKS PREMIUM	SOLIDWORKS PROFESSIONAL	SOLIDWORKS STANDARD
▼ PART AND ASSEMBLY MODELING			
3D Solid Modeling	■	■	■
Large assembly design capabilities	■	■	■
Advanced surfacing	■	■	■
Sheet metal	■	■	■
Weldments	■	■	■
Mold Design	■	■	■
Read PCB data as 3D parts	■	■	■
Direct model modification	■	■	■
Full ECAD-MCAD data exchange	■		
Piping/tubing Design	■		
Electrical Cable/Harness design	■		
▼ 2D DRAWINGS			
Automatic Drawing View Creation	■	■	■
Automatic Drawing View Updates	■	■	■
Dimensioning	■	■	■
Annotation	■	■	■
Bills of Materials, cut lists	■	■	■
Automatic hole tables, weld tables, and pipe bending data	■	■	■
International standards support	■	■	■
Drawing Control (compare)	■	■	■
Standards Checking	■	■	
Flattened harness drawings	■		
▼ DESIGN REUSE AND VALIDATION			
SolidWorks Search	■	■	■
Design Automation	■	■	■
Configurations	■	■	■
Design Library	■	■	■
3D Models from Suppliers	■	■	■
Smart Components and Smart Fasteners	■	■	■
Standard Component Library	■	■	
Task Scheduler	■	■	



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▼ ANIMATIONS AND RENDERINGS			
Assembly animation	■	■	■
Walk-through/fly through animations	■	■	■
Photorealistic rendering	■	■	
▼ DESIGN VALIDATION AND SIMULATION			
Collision and Interference Detection	■	■	■
Hole Alignment checks	■	■	■
Check manufacturability	■	■	■
Fluid flow simulation	■	■	■
Sustainability	■	■	■
Draft and undercut analysis	■	■	■
Tolerance stack-up analysis	■		
Kinematic motion simulation	■		
Structural validation	■		
▼ COLLABORATE AND SHARE			
Import/export	■	■	■
3D for rapid prototyping	■	■	■
Utilize 2D DWG/DXF data	■	■	■
Protect design information while sharing	■	■	■
eDrawings	■	■	■
eDrawings Professional	■	■	
Feature recognition	■	■	
Data Vaulting and revision control	■	■	
Import scanned data	■		