







Why upgrade to Geomagic Design X 2020?

New Features Comparison by Major Releases

						
NEW FEATURES						
New Selective Autosurfacing by Boundary Curves	•					
New Selective Autosurfacing by Mesh Selection	•					
New Unroll/Reroll Mesh and Point Clouds	•					
New Unroll/Reroll 2D and 3D Curves	•					
New Flatten and Curl Scans and Curves	•					
Product Preview Program for valid Maintenance Subscribers	•					
New Separate Mesh Command	•					
New 3D Systems Licensing System	•					
LiveTransfer to SOLIDWORKS 2020, Inventor 2020, Siemens NX 1872, Creo 6.0	•					
Save As Support for SolidEdge 2020 and CATIA V5-6 2019	•					
Updated Ribbon Layout with LiveCapture Tab	•	•				
Improved Mesh Rendering	•	•				
Mesh is Always Active	•	•				
Group Scans in Model Tree	•	•				
Updated Native CAD Imports	•	•				
Import Wrap and Control X Files	•	•				
Improved Scanning Performance	•	•				
New Move Device Command	•	•				
New Probe Location Feature	•	•				
Overhauled Mesh Engine	•	•				
Improved Healing Wizard	•	•				
New Scan Process Method	•	•				
Dynamically Controlled Smart Select	•	•				
Improved Fill Hole Algorithm	•	•				
Improved Point Normal Generation	•	•				
New Constraints with Manager in 2D Sketching	•	•				
Improved Auto-Sketch Constraints	•	•				
Dimensional Rounding in Smart Dimension	•	•				
Spline Tangency Control	•	•				
Improved RMB Context Menus	•	•				
Undo and Cancel Actions within 2D Sketch Commands	•	•				
Added Spline Blend Tool in 3D Sketching	•	•				
Edit Splines with Control Polygons and Properties Dock	•	•				
Fill Face Creates G2 Continuous Surfaces	•	•				
Added Constant Curvature Continuity in Fillet Command	•	•				

Improved Exact Surfacing Logic	●	●				
LiveTransfer to SolidWorks 2019, Inventor 2019, SEIMENS NX 12, Creo 5.0	●	●				
Faster Accuracy Analyzer Performance	●	●				
New Zebra Stripes Options in Accuracy Analyzer	●	●				
New Curvature Comb Analysis Tool	●	●				
Updated Hardware Compatibility for AICON, FARO, Kreon, and Nikon	●	●	●			
Improved Importing of CAD, PLY, ASCII, and e57 File Types	●	●	●			
Smoothness Control in Fill Holes	●	●	●			
Improved Healing Wizard	●	●	●			
3D Spline Constraint Icon	●	●	●			
Enhanced Fit Surface Patches	●	●	●			
LiveTransfer to SolidWorks 2018, Inventor 2018, Creo 4	●	●	●			
Remove Patch Curves in 3D Sketching and Surfacing	●	●	●			
Repair Patches in 3D Sketches and Surfacing	●	●	●			
Relax Patches and Contours in 3D Sketches and Surfacing	●	●	●			
Specify Front View to Y-Up or Z-Up	●	●	●			
LiveScan Clipping Plane	●	●	●			
Anonymous Usage Statistics with Error Reports	●	●	●			
Updated Hardware Device Compatibility	●	●	●			
Polygon Topology Created During Scanning	●	●	●			
LiveTransfer to SolidWorks 2016, SIEMENS NX 10, Creo 3.0	●	●	●	●		
Import E57 and LSPROJ files	●	●	●	●		
Temporary Folder for Scanning	●	●	●	●		
Improved Modeling Performance	●	●	●	●		
FARO Array Imager Support	●	●	●	●		
Optional Collection of Anonymous Usage Statistics	●	●	●	●		
Import/Export PLY Point Files with Normal Information	●	●	●	●		
Upgraded Licensing Platform	●	●	●	●		
Enhanced Scanning Performance	●	●	●	●		
Import GPD Files	●	●	●	●		
New Exact Surfacing Functions	●	●	●	●	●	
High-Definition Mesh Construction	●	●	●	●	●	
Enhanced Tooltip with Images	●	●	●	●	●	
Right-Click Contextual Menu	●	●	●	●	●	
New Upper-Side Toolbar	●	●	●	●	●	
New Quick Access Toolbar	●	●	●	●	●	
Customizable Ribbon Interface	●	●	●	●	●	
11 Supported Languages	●	●	●	●	●	
High DPI Support	●	●	●	●	●	
Split Curves while Constructing Patch Network	●	●	●	●	●	
Region Segmentation with a Tessellated Mesh	●	●	●	●	●	
Real Time Scan Point Detection and Data Processing	●	●	●	●	●	●
Publish models as 3D PDF documents	●	●	●	●	●	●
Import Native CAD Files	●	●	●	●	●	●