

# Dx Geomagic® Design X™

## Why upgrade to Geomagic Design X 2020?

New Features Comparison by Major Releases



### NEW FEATURES

NEW FEATURES	V20	V19	V16.2	V16.1	V16	V15.2
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	●	●	●	●	●	●



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