Gs Geomagic for SOLIDWORKS

Geomagic for SOLIDWORKS vs. Geomagic Design X

Feature	Gs Geomagic for SOLIDWORKS	Dx Geomagic Design X
Direct Scanner Tools	Scan directly inside SOLID	Scan directly into Geomagic Design X
Scanners Supported	Support of key scanners from FARO, Hexagon, Artec, Creaform, Nikon, 3D Systems	Direct 3D scanner control tools and indirect file import for every major scanner on the market
3D file Import	STL, PLY, OBJ, G3D, .ASC, SCN, VTX, 3PI, .AC, BTX, GPD,	Supports import of over 60 file formats including polygons, point clouds and CAD
Point Cloud Processing	Fast, automated processing	Expertly handles massive mesh and point cloud data alignment, processing and refining, mesh construction
Regioning Tools	Simple automated and semi-automated regioning of the scan data	Expert and comprehensive automated regioning toolkit: edit, combine, split, merge, resegment, enlarge, shrink, manually insert and draw regions, region groups of CAD tesselated & CAE data
Geometry Classification Visibility	N/A	Visualize, classify and decompose a scanned part into basic shapes
Mesh Tools	Standard toolset for automated decimation, smoothing, noise reduction, hole filling	Easy-to-use, comprehensive and intuitive mesh repair tools deliver state-of-the-art in rapid hole filling, smoothing, optimizing, rewrapping, sharpening smoothing and polishing tools. Mesh offseting, booleans and more plus tools for processing of scan data with no normals.
Alignment Tools	Basic toolset for alignment of scan data, alignment to World Coordinate Systems	Comprehensive, fast and powerful scan & target-based alignment, alignment of multiple scans, alignment to World Coordinate Systems
Surfacing Tools	1-button auto-surfacing of Quad patch output	Comprehensive 1-button autosurfacing with editing of the curve network, intelligent patch network tools, choice of Quad patch fitting and T-junction patches, Boundary-fit and manual surfacing
Parametric Feature Extraction	Extrude, revolve, sweep, Freeform surface, Primitive feature fitting, sketching, cross-sectioning	Extrude, revolve, sweep, Freeform surface, feature fitting, sketching, cross-sectioning, automatic constraint assigment of sketches, Pipe Wizard, Loft Wizard. All features are **parametric-based** which means that when edits are made the other features are automatcailly updated for greater productivity
Reference Geometry Tools	Extract plane and vector by selection	Extract plane, vector, point, polyline, coordinate system with multiple combinations of input
3D Comparison with Deviation Analysis	Simple deviation analysis tool compares between mesh object and CAD object at any time	Accuracy Analyzer™ toolset includes: 2D sketch, 2D curvature and Continuity, 3D curvature and continuity, 3D mesh-to-mesh deviation, 3D environment mapping analysis
3D Mesh Sketching	N/A	Automated curve layout toolsets for sketching curves on meshes include lofted slicing plans and extraction of sharp edges
Helix Tool	N/A	Automatic and accurate extraction of helical thread measurements
Color Scan Processing	N/A	Automatically processes color textures on meshes
Batch Processing	N/A	Automated macros for scan processing by node-based definition
Output to Feature-based CAD	Limited to SOLIDWORKS environment	LiveTransfer™ supports the output of data to a choice of: Solid Edge®, NX®, Inventor®, Creo/Pro/ENGINEER®, SOLIDWORKS®
3D File Export Options	Limited to SOLIDWORKS environment	Supports comprehensive export of neutral CAD or polygon files

Get In Touch
Contact us for a demo at hello@oqton.com

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