

Why upgrade to Geomagic Design X 2023?

New features comparison by major release

| Selective Distriction of Specific Switch Entities in Auto Sketch (23.3) | New Features | V23 | V22 | V20 | V19 | V16 |
|--|--|-----|-----|-----|-----|-----|
| JULIUX Improvements (Customized front for Color Bar. Clipping plane selection from Feature/Model Tree, Eary access to constraints in Use Incenter ment in Selection model (23.3) Improved Sketching Precision with Adjustable Property Values (23.3) Improved Sketching Values (23.4) Invalidation of Sketching Precision with Adjustable Property Values (23.4) Invalidation | Selective Extraction of Specific Sketch Entities in Auto Sketch (23.3) | • | | | | |
| to constraints via context menu in Stackt mode) [28.3] Improved Stackting Priciation with Adjustable Property Voluse (23.3) Creating Construction Stackt Entities (23.3) Plugin for Heosogen Absolute ASI-XL sconner (23.3) Plugin for Heosogen Absolute ASI-XL sconner (23.3) Where a const road elasting scon groups into a single mesh when sconning using Heosogen Structure Ught Sconner (23.3) Live Transfer to Solid/Works 2023, Inventor 2010-2024, Crea 8.0-90, NX 1899, 1926, 1953 series (23.2) Live Transfer to Solid/Works 2023, Inventor 2010-2024, Crea 8.0-90, NX 1899, 1926, 1953 series (23.2) Live Transfer to Solid/Works 2023, Inventor 2010-2024, Crea 8.0-90, NX 1899, 1926, 1953 series (23.2) Live Transfer to Solid/Works 2023, Inventor 2010-2024, Crea 8.0-90, NX 1899, 1926, 1953 series (23.2) Live Transfer to Solid/Works 2023, Inventor 2010-2024, Crea 8.0-90, NX 1899, 1926, 1953 series (23.2) Live Transfer to Solid/Works 2023, Inventor 2010-2024, Crea 8.0-90, NX 1899, 1926, 1953 series (23.2) Live Transfer to Solid/Works 2023, Inventor 2010-2024, Crea 8.0-90, NX 1899, 1926, 1953 series (23.1) Live Transfer to Solid/Works 2023, Inventor 2010-2022, Crea 8.0-90, NX 1899, 1926, 1953 series (23.1) Live Transfer to Solid/Works 2023, Inventor 2010-2022, Crea 8.0-90, NX 1899, 1926, 1953 series (23.1) Live Transfer to Solid/Works 2023, Inventor 2010-2022, Crea 8.0-90, NX 1899, 1926, 1953 series (23.1) Live Transfer to Solid/Works 2023, Inventor 2010-2022, Crea 8.0-90, NX 1899, 1926, 1953 series Live Transfer to Solid/Works 2023, Inventor 2010-2022, Crea 8.0-90, NX 1899, 1926, 1953 series Live Transfer to Solid/Works 2023, Inventor 2010-2023, Crea 8.0-90, NX 1899, 1926, 1953 series Live Transfer to Solid/Works 2024, 1954 series Live Transfer to Solid/Works 2024, 1954 series Live Transfer to Solid/Works 2024, 1954 series Live Transfer to Solid/ | Select Poly-Faces by Angle (23.3) | • | | | | |
| Creating Construction Sketch Entities (23.3) | | • | | | | |
| Plugin for Hexagon Absolute ASI-XL scanner (23.3) | Improved Sketching Precision with Adjustable Property Values (23.3) | • | | | | |
| Mergia consistion all avisting scan groups into a single mesh when scanning using Hexagon Structure Light Scanner (23.3) | Creating Construction Sketch Entities (23.3) | • | | | | |
| (23.3) | Plugin for Hexagon Absolute AS1-XL scanner (23.3) | • | | | | |
| Live Transfer to SolidWorks 2023, Inventor 2010-2024, Crop B.D-9.0, NX 1899, 1926, 1953 series (23.2) Plugin for Scantech KSCAN-Magic Series, AXF-B Series 3D and SIMSCAN Hondheld 3D Laser Scanners (23.2) Plugin for Scantech KSCAN-Magic Series, AXF-B Series 3D and SIMSCAN Hondheld 3D Laser Scanners (23.2) Plugin for Scantech K-Probe and T-Probe probing devices (23.2) Plugin for PMT Alpha ARM Series (22.2) UI/UX Improvements (Customized font for Measurements) (23.2) Additional alignment methods for the Hexagon StS plugin (23.1) Additional alignment methods for the Hexagon StS plugin (23.1) Updated Native CAD Imports (23.3) Live Transfer to SolidWorks 2023, Inventor 2010-2023, Crop 8.0-9.0, NX 1899, 1926, 1953 series (23.1) Subscription Licensing (23.1) Updated Native CAD Imports (Customized font in Color Bar, Updated ribbons, Additional selection tools in 2D Sketch) (23.1) Updates to Lafits & Exact Surfacing Tools Live Transfer to SolidWorks 2022, Inventor 2021-2023, Crop 8.0-9.0, NX 1899, 1926, 1953 series Updates to Lafits & Exact Surfacing Tools Live Transfer to SolidWorks 2022, Inventor 2021-2023, Crop 8.0-9.0, NX 1899, 1926, 1953 series New Sketch Tools (Centered Rectangle, Mid-Point Constraint, Radial/Circular Dimension Display) New Hexagon Structured Light Scanner Interface Hordware Interface Updates (Einscan, AT960 tracker + ASI scanner, Faro Quantum Max/S + LLP XR/HD) Updated Native CAD Imports New Subscribe Autosurfacing by Mesh Selection New Unroll/Reroll Mesh and Point Clouds New Veryoll Mesh and Point Clouds New Flatten and Curves New Selective Autosurfacing by Mesh Selection New Flatten and Curves New Separate Mesh Command New Separate Mesh Command New Separate Mesh Command New Separate Mesh Command | | • | | | | |
| Plugin for Scantech KSCAN-Magic Series, AXE-B Series 3D and SIMSCAN Handheld 3D Laser Scanners (23.2) | Retain Preference settings from the current version when upgrading to a newer version (23.3) | • | | | | |
| Plugin for Scantech TrackScan-Sharp and TrackScan-P Optical 3D Measurement System (23.2) Plugin for Scantech K-Probe and T-Probe probing devices (23.2) Plugin for PMT Alpha ARM Series (23.2) UI/UX Improvements (Customized font for Measurements) (23.2) Additional alignment methods for the Hexagon SLS plugin (23.1) More effective Pipe and Sweep Wizards based on the new 3D Polyline Curve (23.1) Live Transfer to SolidWorks 2023. Inventor 2010-2023, Creo 8.0-9.0, NX 1899, 1926, 1953 series (23.1) Live Transfer to SolidWorks 2023. Inventor 2010-2023, Creo 8.0-9.0, NX 1899, 1926, 1953 series (23.1) UI/UX Improvements (Customized font in Color Bar, Updated ribbons, Additional selection tools in 2D Sketch) (23.1) UI/UX Improved CAD Improved (23.1) Live Transfer to SolidWorks 2022. Inventor 2021-2023, Creo 8.0-9.0, NX 1899, 1926, 1953 series UI/UX Improved CAD (23.1) UI/ | Live Transfer to SolidWorks 2023, Inventor 2010-2024, Creo 8.0-9.0, NX 1899, 1926, 1953 series (23.2) | • | | | | |
| Plugin for Scantech K-Probe and T-Probe probing devices (23.2) | Plugin for Scantech KSCAN-Magic Series, AXE-B Series 3D and SIMSCAN Handheld 3D Laser Scanners (23.2) | • | | | | |
| Plugin for PMT Alpha ARM Series (23.2) | Plugin for Scantech TrackScan-Sharp and TrackScan-P Optical 3D Measurement System (23.2) | • | | | | |
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| Product Preview Program for valid Maintenance Subscribers New Separate Mesh Command New 3D Systems Licensing System • • • • • • • • • • • • • • • • • • • | New Unroll/Reroll 2D and 3D Curves | • | • | • | | |
| New Separate Mesh Command New 3D Systems Licensing System • • • • • • • • • • • • • • • • • • • | New Flatten and Curl Scans and Curves | • | • | • | | |
| New 3D Systems Licensing System • • • • | Product Preview Program for valid Maintenance Subscribers | • | • | • | | |
| | New Separate Mesh Command | • | • | • | | |
| LiveTransfer to SOLIDWORKS 2020, Inventor 2020, Siemens NX 1872, Creo 6.0 | New 3D Systems Licensing System | • | • | • | | |
| | LiveTransfer to SOLIDWORKS 2020, Inventor 2020, Siemens NX 1872, Creo 6.0 | • | • | • | | |

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| 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 | • | • | • | • | • |
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Get In Touch

Contact us for a demo at oqton.com/geomagic-designx



| 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 | • | • | • | • | • |

