Cx Geomagic® Control X™

Why upgrade to Geomagic Control X 2022?
New Features Comparison by Major Releases

NEW FEATURES	V 22.0	V 20.0	V 18.1	V 18.0	V 17.0
Customize and Automate Workflows using Visual Scripting	●				
Scan with Hexagon Structured Light Scanners within Control X	●				
Unequal Tolerance in Surface Profile	●				
Use mesh as reference data	●				
Updated native CAD file import along with PMI for most formats	●				
Improved CAD tessellated mesh segmentation	●				
New Flexible Geometry Creation Methods in LiveGeometry	●	●			
New P.C.D. (Bolt Hole Circle) Method to LiveGeometry	●	●			
Define Probing Method for Pre-Planned Inspection	●	●			
Define Local Plane creation for Pre-Planned Inspection	●	●			
Automatic Geometric Tolerance Calculations in DRO during Live Capture	●	●			
Enhanced Progress indicator in DRO during LiveInspect	●	●			
Move Device Enhancement: Remove Outlier Points and Refit	●	●			
Move Device Enhancement: Export Transform Matrix	●	●			
New Probe Data Management to Remove Outlier Points and Recalculate	●	●			
X, Y, and Z components can be toleranced for Reference Geometry and Comparison Points	●	●			
X, Y, and Z components can be viewed for Linear Dimensions, Angular Dimensions, and Position	●	●			
ASCII Geometry Importer can import X, Y, and Z tolerances	●	●			
Simulated CMM Points are now compatible with Point Cloud data	●	●			
Deviation Location can now automatically measure Major Length and Minor Width	●	●			
Control X has a new Inspection Viewer mode when unlicensed	●	●			
Annotations Presets can be applied to each inspection object	●	●			
3D Sprint Files are supported for Import	●	●			
Automation Server supports trigger options for multi-scan automation	●	●			
Transform Measured Data has a new Datum Match option	●	●			
Coordinate Alignment provides discrete control of geometry priority	●	●			
Coordinate Alignment allows target position by definition	●	●			
Coordinate Alignment now clearly provides Degrees of Freedom information	●	●			
2D Section tools have been enhanced for performance	●	●			
Probe Two Intersecting Vectors	●	●	●		
Improved Mesh Topology During Scanning	●	●	●		
Improved 2D Construction Geometry from Cross-Section	●	●	●		
Redefine Construction Geometry as Reference or Measured	●	●	●		
Added Clipping Plane in LiveCapture	●	●	●		
Pair Probe Points with CAD in Pairing Manager	●	●	●		
Improved Pairing Map and Pairing Manager	●	●	●		
Enhanced ASCII Importing Workflow	●	●	●		
Scan Grouping in Model Manager	●	●	●		
Added Single Point Circle Option	●	●	●		
Acquire Probe Data from One Project to Another	●	●	●		

Feature	1	2	3	4	5
Probe Compatibility with Data from Other Software	●	●	●		
Align Probe Data with Transform Measured Data	●	●	●		
Free Probe in LiveScan	●	●	●		
Added Save Current Profile to Manage User Profiles	●	●	●		
Optimized Tabular View	●	●	●		
Updated Hardware Device Compatibility for AICON, Creaform, FARO, Kreon, Nikon, and RPS	●	●	●		
Added Progress Indicator during Auto-Update	●	●	●		
Enhanced Anonymous Usage Statistics	●	●	●		
Ref. Geometry Automatically Grouped for Reporting	●	●	●		
Added User Profiles	●	●	●	●	
New Deviation Location Feature	●	●	●	●	
New Airfoil Analysis	●	●	●	●	
New 2D Twist Analysis	●	●	●	●	
New Scan Process Automation Tools	●	●	●	●	
New Probe Location Tool	●	●	●	●	
Customize Metrology Standards	●	●	●	●	
Toggle On and Off Global Coordinate System	●	●	●	●	
Updated CAD File Import	●	●	●	●	
Support for WRP and GEODOC Files	●	●	●	●	
New ASCII Geometry Import	●	●	●	●	
Edit Geometry in Tabular View	●	●	●	●	
Pair and Unpair Geometry from Model Manager	●	●	●	●	
Construction Geometries in Model Manager	●	●	●	●	
Enhanced Result Navigator	●	●	●	●	
Improved LiveInspect	●	●	●	●	
Added Re-Align To Existing Measure Data Option in Replace Measured Data	●	●	●	●	
Enhanced Report Tools with 3D PDF	●	●	●	●	
Alignment Matrix Exported as CSV	●	●	●	●	
Automatic Regenerated Measured Geometries	●	●	●	●	
Tessellate CAD Option in Import Tool	●	●	●	●	
Performance Enhancements in Scan Pair Searching, Best Fit Aligning, 3D Compare, and Point Cloud Handling	●	●	●	●	
Automatic Error Reporting	●	●	●	●	
Added Reprobe Tool	●	●	●	●	●
Added GPD File Support	●	●	●	●	●
Improved Scanning and Scan Processing Performance	●	●	●	●	●
Improved Probing UX and Performance	●	●	●	●	●
Improved CAD Platform	●	●	●	●	●
Twelve Languages Added	●	●	●	●	●
Added Status Indicator for LiveScan and Replace Measured Data	●	●	●	●	●
Optimized Mesh Buildup Wizard	●	●	●	●	●
Edit Radius Size of Probe Data	●	●	●	●	●
Licensing Upgrade	●	●	●	●	●
Synchronous Inspection	●	●	●	●	●
Multiple Results System	●	●	●	●	●
Walk-up Probing	●	●	●	●	●
Repetable Probing Processes	●	●	●	●	●
Automatic Report Generation	●	●	●	●	●
CAD Aware Dimensioning and Tolerancing	●	●	●	●	●

3D SYSTEMS