



Geomagic Control X

Compare Price Plans

Geomagic Control X offers three software plans to best fit your inspection needs.

	Essentials	Essentials Connect	Professional
I/O			
Import/Export Neutral CAD (IGES, STEP, etc.)	✓	✓	✓
Import/Export Neutral Scan (STL, PTS, etc.)	✓	✓	✓
Import/Export Native CAD & Scan data	✗	✗	✓
Import PMI CAD	✗	✗	✓
Import ASCII Geometry	✗	✗	✓
SELECT			
Mode (<i>Line, Rectangle, Circle, etc., Select by Angle, Extend To Similar, Extend To Sudden Change, Extend By Smart Selection</i>)	✓	✓	✓
All (<i>Entity based on Selection Filter</i>), None, Inverse, Custom Region	✓	✓	✓
Boundary Entities, Entities Around Edges/Faces, Enlarge, Shrink, Convert Current Selection, By Criteria, By Color, Exterior Poly-Faces	✓	✓	✓
By Geometry, Custom Selection for Entity	✗	✗	✓
AUTOMATION			
Repeatable Inspection (Replace Measured Data)	✓	✓	✓
Batch Process	✓	✓	✓
Automation Server	✓	✓	✓
Scan Process	✗	✗	✓
Visual Scripting	✗	✗	✓
Python Scripting	✗	✗	✓
Replace Reference Data	✗	✗	✓

	Essentials		Essentials Connect		Professional
ALIGNMENTS					
Initial Align, Best Fit, RPS, Datum, 3-2-1 Alignment, Coordinate Align, Transform	✓		✓		✓
Adaptive, Homing	✗		✗		✓
PAIRING MANAGER					
Pairing Manager	✓		✓		✓
COMPARE					
3D Compare	✓		✓		✓
Multiple 2D Compares	✓		✓		✓
2D Compare, Multiple 2D Compares	✓		✓		✓
Geometry Deviation	✓		✓		✓
Boundary Deviation, Virtual Edge Deviation, Silhouette Deviation, Curve Deviation	✗		✗		✓
Plot, Deviation Location	✗		✗		✓
Airfoil, 2D Twist	✗		✗		✓
REFERENCE GEOMETRY					
Simulated CMM Point	✓		✓		✓
Point, Vector, Plane, Circle, Slot, Rectangle, Regular Polygon, Cylinder, Cone, Sphere, Torus, Cooordinate System	✓		✓		✓
SCANNER DIRECT CONTROL					
Scanner Plugins (Creaform, Shining 3D, etc.) (list of supported devices)	✗		✓		✓
LiveInspect, LiveAlign, LiveCapture, LiveDimension, LiveGeometry (list of supported devices)	✗		✓		✓
Reprobe, Probe Sequence, Probe Location, Setting, Move Device, Connect/Device	✗		✓		✓
CAD TOOLS					
Delete Face, Transform Body, Reverse Normal, Assign Tolerance	✓		✓		✓
Transform Body	✓		✓		✓
Healing, Find Defect	✓		✓		✓
Sew, Split, Offset, Thicken, Mirror, Separate	✗		✓		✓
MULTI-RESULT INSPECTION					
Single-Result Inspection	✓		✓		✓
Multi-Result Inspection, Result Navigator	✗		✗		✓

SCAN TOOLS (MESH/POINT)	Essentials		Essentials Connect		Professional
Align Between Measured Data, Transform Measured Data, Export Alignment Matrix	✓		✓		✓
Merge, Combine, Triangulate, Filter Noise, Sampling	✓		✓		✓
Healing Wizard, Fix Normal, Fill Holes, Decimate	✓		✓		✓
Mesh Buildup Wizard, Split, Offset	✓		✓		✓
Register Target, Remove Markers	✓		✓		✓
Normal Information Wizard, Separate Mesh, Find Defect, Defeature, Thicken, Sew/Edit Boundaries, Find Scan Direction	✓		✓		✓
Average Meshes	✗		✗		✓
REGION TOOLS					
Insert, Merge, Split, Auto Segment, Resegment, Enlarge, Shrink	✓		✓		✓
GD&T					
Linear Dimension, Angular Dimension, Radial Dimension, Straightness, Flatness, Circularity, Cylindricity	✓		✓		✓
Smart Dimension, Elliptical Dimension, Datum	✓		✓		✓
Parallelism, Perpendicularity, Angularity, Position, Concentricity, Symmetry, Line Profile, Surface Profile	✓		✓		✓
Runout, Total Runout, Bore Depth, Counterbore, Countersink, Thickness	✓		✓		✓
MEASURE					
Distance, Angle, Radius, Section, Area, Volume	✓		✓		✓
Mesh Deviation, Virtual Caliper	✓		✓		✓
CURVE TOOLS					
Spline, Section, Intersection, Boundary	✓		✓		✓
Offset, Project, Mirror, Convert	✗		✗		✓
UV Curves, Fit Spline, Smooth, Trim, Extend, Split, Match, Merge	✗		✗		✓
Insert & Remove Node, Remove Constraint	✗		✗		✓
Contour Curve from 3D Compare	✗		✗		✓
REPORT TOOLS					
Generate Report, Report Manager, Trend Report, DMIS Report	✓		✓		✓