



Geomagic Design X

Geomagic Design X Editions

Geomagic Design X offers two editions to best fit your reverse engineering needs.

Main Feature		Design X Essentials	Design X	
I/O	Import neutral file formats	•	•	
	Import/Export Neutral Scan (STL, PTS, etc.)	•	•	
	Import/Export Native CAD		•	
Select	Mode, All - Ref. Planes, None, Inverse, Custom Region	•	•	
	Boundary Entities, Entities Around Edges/Faces, Enlarge, Shrink, Convert Current Selection		•	
	By Criteria, By Color, Exterior Poly-Faces		•	
Reference Geometry	All	•	•	
2D Sketch	Mesh Sketch	•	•	
	Line, Rectangle, Parallelogram, Polygon, Circle, Arc, Ellipse, Spline, Centerline, Construction Point	•	•	
	Fillet, Chamber, Offset, Trim, Extend, Split, Mirror, Resize, Merge, Sketch Pattern	•	•	
	Convert Entities, Smart Dimension, Constraints	•	•	
	Snap On Entities, Snap On Polylines, Smart Snap, Tangent/Coincident Constraint Settings	•	•	
	Sketch, AutoSketch		•	
	Slot, Parabola, Silhouette, Sketch Text, By Fitting Polyline, Insert from File		•	
	Convert to Spline, Text to Spline, Insert Polyline, Rebuild Spline		•	
	3D Sketch	3D Sketch	•	•
		Trace Feature Line, Project, Smooth, Match, Blend, Insert/Remove Node	•	•
3D Mesh Sketch			•	
Pencil, Section, Intersection, Boundary, UV Curves from Surface, Spline by Fitting, Unroll/Roll Curves			•	
Trace Feature Line, Project, Smooth, Match, Blend, Insert/Remove Node			•	
Solid Tools	3D Polyline Curve		•	
	Extrude, Revolve, Sweep, Loft, Solid Offset, Thicken Surface, Shell, Cut, Boolean	•	•	
	Refit		•	
Surface Tools	Mesh Fit, Auto Surface (without selective surfacing), Extrude, Revolve, Sweep, Loft, Surface Offset	•	•	
	Extend/Trim/Untrim Surface, Sew, Reverse Normal	•	•	
	Auto Surface (with selective surfacing), Fit Surface Patches, Fill Face, Solidify, Refit		•	
	Extract Contour Curves, Relax Contour		•	
	Construct Patch Network, Shuffle Patch Groups, Relax Patches, Remove Patches, Repair Patches		•	

Modeling Tools	Fillet, Chamfer, Draft, Linear/Circular Pattern, Mirror, Transform Body	•	•
	Emboss, Curve Pattern, Helix Curve, Spiral Curve, Move/Delete/Replace/Split Face, Duplicate/Delete Body		•
	Modeling Wizards		•
	CAD Correct		•
Scan Tools	Align Between Scan Data, Merge, Combine, Decimate, Transform Scan Data	•	•
	Mesh Buildup Wizard, Triangulate, Unroll/Roll Scan, Normal Information Wizard, Average Meshes, Boolean		•
Align	Interactive Alignment, Align Between Scan Data, Transform Scan Data	•	•
	Align Wizard, Quick Fit, Best Fit, Datum Match, Target/Sphere Registration		•
Mesh Tools	Healing Wizard, Fix Normal, Edit Boundaries, Global Remesh, Fill Holes, Defeature, Smooth	•	•
	Split, Trim, Convert to Mesh, Merge, Combine, Decimate, Navigation	•	•
	Sew Boundaries, Retriangulate, Optimize Mesh, Edit Poly-Edge, Virtual Rescan, Rewrap		•
	Remove Markers, Add Poly-Face, Smart Brush, Subdivide, Enhance Shape, Refit, Insert		•
	Mirror, Offset, Thicken, Separate Mesh, Mesh Buildup Wizard, Add Texture, Unroll/Roll Scan		•
Region	Merge, Split, Insert	•	•
	Auto Segment, Resegment, Separate, Enlarge, Shrink, Geometry Classification		•
Point Cloud	Filter Noise, Sampling, Smooth, Construct Mesh, Mesh Buildup Wizard, Merge, Combine, etc.		•
Texture	Add/Edit/Remove/Export Texture, Convert Texture To Color, Compensate Color Temperature, etc.		•
Automation	Process Designer, Run Scan Process		•
	Batch Process		•
Body Tools	Find Defect		•
Scanning/Probing	Scanner Direct Control		•
	LiveAlign, LiveCapture, LiveModel, LiveGeometry		•
	Probe Location, Move Device, Setting, Connect/Device Connect, Plugin Devices		•
Measure	Distance, Angle, Radius, Section	•	•
	Deviation		•
Accuracy Analyzer	All	•	•
Add-Ins	Import/Split, IGES Point Importer, Flatten/Deform, Legacy Auto-Surfacing, New Feature Preview, etc.		•
Live Transfer			•

Get In Touch

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