

TurboCAD v10

Comparison Chart

Professional - Deluxe

| ACIS 3D Objects | Pro | Del |
|--|------------|------------|
| NEW - ACIS® Version 11 Solid Modeling Engine | X | |
| NEW - Deformable Modeling based on NURBS | X | |
| NEW - Solid to Surface Conversion | X | |
| NEW - SAT Import Healing | X | |
| NEW - Scale Along Axis | X | |
| NEW - Create Threaded Bodies | X | |
| 2D Drawing Tools with Thickness | X | X |
| Engineering Properties (Surface Area, Volume, Moments of Inertia, Axis of Moment of Inertia) | X | |
| Lofting | X | |
| Primitives: Box, Sphere, Hemisphere, Cone, Cut Cone, Revolve, Rigid Extrude, Normal Extrude, Prism, Cylinder, Polygonal Prism, Torus, Wedge, 3D Mesh | X | X |
| Regions | X | |
| Shelling | X | |
| Symbols - ACIS 3D symbols | X | |
| Surface to Solid Conversion | X | |
| Surfaces and Wireframe | Pro | Del |
| 3D Polyline, Surface Drawing Tools, Box, Sphere, Hemisphere, Cone, Cut Cone, Revolve, Rigid Extrude, Normal Extrude, Prism, Cylinder, Polygonal Prism, Torus, Wedge, 3D Polyline | X | X |
| 2D Drawing Tools with Thickness | X | X |
| 3D Modify Tools | Pro | Del |
| IMPROVED - Facet Edit - Move, rotate, delete facets of ACIS 3D objects. | X | |
| Blending (3D Fillet and Chamfer), Round Blends, Chamfer Blends, Round Vertex, Miter Vertex, Smooth Sequence Option, Multiple Setbacks for Vertices | X | |
| Boolean Tools: Add, Subtract, Intersect, 3D Slice | X | X |
| Extrusions: Draft start distance/End distance/Draft Angle/Twist Angle added | X | |
| Extrusions: Along paths - Bend and crimp smoothing settings | X | |
| Extrusions: Along paths with arc segments now possible | X | |
| Imprint - Rapid ACIS object creation/editing by extruding a profile into a solid. | X | |
| Materials | Pro | Del |
| Materials Editor, Procedural Materials, Reflectance Settings, Transparency Setting, Wrapping Setting, Import Texture Patterns, Import Bump Maps for applying Textures | X | |
| Rendering | Pro | Del |
| NEW - Fast Examine & Zoom in Quality Render | X | |

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|--|-----|-----|
| IMPROVED - Hidden Line Rendering Options | X | |
| Advanced shadow properties | | X |
| Display intersection of workplane with 3D objects | X | X |
| Environment - Drawing to environment selection capability | X | |
| LightWorks Radiosity | X | |
| LightWorks: Raytrace, Raytrace Preview, Full, Preview, Phong, Gouraud, Flat, Flat OpenGL, Wire material color GL, Smooth OpenGL, | X | X |
| Luminance - Objects to luminance and luminance to object cross selection capability | X | |
| Lights creation tools | X | X |
| Materials - Object to material and material to object(s) cross selection capability | X | |
| Open GL: Gouraud, Wireframe, WireOpenGL, Wire material color GL, Hidden Line with perspective. | X | X |
| View 2D objects in render mode | X | |
| View rendered objects and their wireframe together | X | |
| Working in Render Mode - 3D objects plus edit plus edit all objects in render mode | X | |
| Wireframe as a render mode, Perspective as camera property | X | |
| Smart Objects | Pro | Del |
| Self-Healing Wall Tool | X | X |
| Smart Blocks (Associative Door and Window Tool) | X | X |
| Paper Space/Model Space | Pro | Del |
| Shaped editable (floating) Viewports | X | X |
| Raster to Vector | Pro | Del |
| NEW - Integrated ScanPro Raster to Vector converter | X | X |
| Productivity | Pro | Del |
| NEW - Drafting Palette to Automatically create Sections & Projections of 3D Objects & Assemblies | X | |
| NEW - Distribute | X | X |
| NEW - Wall Materials Display - Interior and Exterior Materials | X | X |
| NEW - Quick Dimension Tool | X | X |
| NEW - Convert Polyline to Bezier Curves | X | |
| NEW - Explorer Palette | X | |
| NEW - Perspective Grid Display | X | |
| NEW - Multi-monitor display support | X | |
| NEW - Use of 2D Tools in Rendered mode | X | |
| IMPROVED - Selection Info Palette now allows Editing of Object Properties | X | X |
| IMPROVED - Multi Text Editing | X | X |
| IMPROVED - Color Selection & Creation via new Color dialog boxes | X | X |
| IMPROVED - Mouse Support for Mouse Wheel Rolls & Clicks | X | X |
| IMPROVED - Transform Commands - Activate, select, then move, rotate, scale and geometrically transform one or more objects. | X | X |
| IMPROVED Node Editing for multiple nodes that can belong to different selected entities | X | X |
| 2D Booleans | X | X |
| Advanced Offset | X | X |
| Arc Tangent to 2 Entities - Now possible for arcs, previously only circles | X | |

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| Aerial Views | X | X |
| Chain Polyline | X | |
| Copy/Mirror Entities Command - Activate the command then select entities | X | X |
| Convert to wall - Convert lines, polylines, circles and curves into walls | X | X |
| Custom line styles- Totally customized line styles from various elements | X | |
| Calculate Geometric Parameters | X | |
| Design Director | X | |
| Horizon Line in perspective | X | X |
| Images - Insert picture from file | X | X |
| Images - NEW Raster image, Clip raster image, Image manager | X | |
| Local menu | X | X |
| Modify 2D entities - Now possible to modify entities on different workplanes | X | X |
| Openings - Opening Styles - Explore different quickly from a style list | X | |
| Print styles - Create and save styles for pen and brush to assign for printing | X | X |
| Polylines with Arcs - Improved the algorithm for creating arcs | X | X |
| Perspective - Improved algorithm, including "sky line" perspective | X | |
| Printing Collated Copies | X | X |
| Roof - Enter slope angle of greater than 90 degrees for more complex roofs | X | |
| Roof - Openings in roofs - create openings anchored to roofs | X | |
| Relative Display Priority - Multiple levels of "one step forward/back" for display | X | X |
| Recent file list - Increased to 10 drawings | X | X |
| Spell Checker | X | X |
| Selector - Keep aspect ratio option added | X | X |
| Splash Screen - Includes tips and can be and can be independently called at any time | X | X |
| Transform Recorder - Record a transformation, then apply to other objects | X | |
| User Interface - Local Menu - Can display toolbars in the local menu | X | |
| Workplane - Can now display intersection of workplane with 3D objects. | X | X |
| X-refs | X | X |
| Tools | Pro | Del |
| Background Color - Background color to model space and each paper space | X | X |
| Calculator Palette | X | X |
| Color Palette | X | X |
| Custom Line Styles | X | |
| Format Painter | X | X |
| Hatch - Improved algorithm for creating hatches | X | X |
| Mesh | X | X |
| Macro Recorder - Records scripts as you work. Load, edit, play back and save | X | |
| Org Chart Wizard | X | |

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| Part Tree | X | |
| Publish to HTML | X | X |
| Pipe Tools | X | |
| Text on Curve | X | |
| Dimensions | Pro | Del |
| IMPROVED - Dimensions - 3D Dimensioning now possible | X | X |
| IMPROVED - Dimensions - Multi-text dimensions | X | |
| Dual units in one | X | |
| Geometric tolerance | X | |
| Incremental | X | |
| Surface Roughness | X | |
| Snaps | Pro | Del |
| Added the ability to work with snaps while working with 3D objects | X | X |
| Center of Extents | X | X |
| Divide by | X | X |
| Nearest on Facet | X | X |
| File Filters | Pro | Del |
| NEW - DCD | X | X |
| IMPROVED - IGES | X | X |
| IMPROVED - STEP | X | |
| ACIS (SAT) | X | |
| TCW | X | X |
| TCX | X | X |
| TCT | X | X |
| STL | X | |
| 3DV | X | X |
| DXF | X | X |
| DWG | X | X |
| DGN | X | X |
| DWF | X | X |
| MTX | X | |
| PLT | X | X |
| FCD | X | X |
| FCW | X | X |
| FP3 | X | X |
| GEO | X | X |
| WMF | X | X |
| WRL | X | X |
| WRZ | X | X |
| EPS | X | |
| JPG (Designer, save only) | X | X |
| CGM | X | X |
| BMP (Designer, save only) | X | X |
| XLS | X | |
| File Converter - Convert Multiple files to different formats | X | |
| User interface | Pro | Del |
| Local menu - Can display toolbars in the local menu | X | |
| Menus - Icons displayed in menus | X | X |
| Toolbars - Can dock tabbed toolbars | X | |
| Customizable Interface | Pro | Del |
| Customizable Sizes for the Inspector Bar Fields and Buttons | X | X |

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| Totally customizable user interface at the menu, toolbar, and keyboard levels. Combine, add, and redefine all elements of the User Interface to suit particular user needs. On-the-fly creation of Tabbed, Fly-out, and Standard toolbars, with options for collapsing and docking. | X | |
| Database | Pro | Del |
| Entity assigned database creation, control, and interactivity. Will allow the user to point drawing objects to multiple external ODBC and other compliant databases for totaling, reporting and creating bills of materials | X | |
| Programmability | Pro | Del |
| Visual Basic for Applications (VBA) support | X | |
| Software Development (SDK) | X | |
| Content | Pro | Del |
| 1st Pricing | X | X |
| House Plans | 1,000 | 1,000 |
| Symbols | 14k | 10k |

TurboCAD 10 New & Improved Features

By Feature Category

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