

TurboCAD vs. AutoCAD Comparative Matrix

TurboCAD Pro 17
TurboCAD Pro Platinum 17
AutoCAD 2010

Suggested Retail Price	\$1,295	\$1,495	\$3,995
USABILITY & INTERFACE			
Command Line			✓
Fully Customizable User Interface and Preferences	✓	✓	✓
Advanced Handle-Based Editing	✓	✓	✓
Drawing Performance - (TurboCAD includes Redway3d drawing engine)	✓	✓	✓
Draw Order by Layer	✓	✓	
Explode Viewports	✓	✓	
Layer Filters	✓	✓	✓
SNAP Prioritization	✓	✓	
True Units Retained between Drawings with Different Unit Settings	✓	✓	
Drawing Compare		(1)	
2D Drafting and Editing			
Auto Tools (for Scaling, Sizing, Positioning, Rotating, and Movement)	✓	✓	✓
2D Drawing, Editing, and Modifying	✓	✓	✓
Bezier Curves	✓	✓	
Transparent and Bitmap Fills	✓	✓	
CTB Print Style Support	✓	✓	✓
Drafting and Detailing Palette - create associative sections and cut planes	✓	✓	
Index Color Support	✓	✓	✓
Layer Properties Manager	✓	✓	✓
Smart and Quick Dimension Tools	✓	✓	✓
Xclip Support	✓	✓	✓
3D Modeling			
3D Solid Modeling and Editing	✓	✓	✓
3D Terrain Modeling	✓	✓	
3D Shelling, Lofting and Surfaces	✓	✓	✓
3D Deformable Modeling	✓	✓	✓
3D Pattern Copy Tools		✓	
Quick Pull Tool	✓	✓	
Parametric Part Maker and Manager	✓	✓	
History Tree with Editor	✓	✓	
Mechanical			
2D Geometric and Dimension Constraints	✓	✓	✓
Adhesive Symbol Tool (fully parametric)	✓	✓	
Branched Lofting	✓	✓	
Face-to-Face Lofting	✓	✓	
Gear Contour Tool	✓	✓	
Geometric Tolerance Tool		✓	
Surface Roughness and Weld Symbols	✓	✓	

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<i>Architectural</i>			
Intelligent (Parametric) Attribute-rich, Architectural Objects (2)			
Walls (Self-Healing; Straight, Curved; Block Insert)	✓	✓	
Multi-Component Walls		✓	
Doors	✓	✓	
Windows	✓	✓	
Roofs	✓	✓	
Slabs		✓	
Stairs	✓	✓	
Rails		✓	
Markers	✓	✓	
Schedule	✓	✓	
Schedule Tool and Wizard	✓	✓	
Architectural Sections and Elevations (3D-to-2D documentation)	✓	✓	
Style Manager	✓	✓	
<i>Photorealistic Rendering</i>			
Advanced Rendering - customizable ray tracing, sketch rendering, depth of field	✓	✓	
Photorealistic Rendering and Materials	✓	✓	✓
OpenGL (Draft) Rendering	✓	✓	✓
Material Library	✓	✓	✓
Ray Tracing	✓	✓	✓
Radiosity	✓	✓	✓
Multiple Lighting Types & Settings	✓	✓	✓
<i>Programmatic Support & Content</i>			
Blocks, Block Editor and Xref Support	✓	✓	✓
Macro Recorder	✓	✓	✓
Programmable SDK	✓	✓	✓
<i>Interoperability</i>			
AutoCAD (DXF, DWG, and DWF) File Compatibility	✓	✓	✓
Import and Open File Formats	40	40	28
Export, Save As, and Publish File Formats	31	31	21
Enhanced SketchUp File (SKP) - geometry, views, materials, components	✓	✓	
File Conversion Tool with Batch File Conversion	✓	✓	
Open and Save 3DM (Rhino), IGS, OBJ, SAT, STL, STP mechanical drawings	✓	✓	
Terrain Data (XYZ) File Support	✓	✓	

✓ New to TurboCAD v17

- (1) Limited time offer: Drawing Compare plug-in included with Platinum Upgrades.
- (2) TurboCAD can read and display AutoCAD Architecture (ACA)-compliant objects embedded in DWG files