

TurboCAD Pro/Pro Platinum v17 vs. TurboCAD Deluxe v17

Coordinate Systems

Absolute

Extents

Orthographic

Polar

Relative

User Definable

World

UI Customization/Preferences

Context Sensitive Tools

Coordinate System screen position

Cursor Shape

Customizable User Interface, including Toolbars and Menus

Design Director

Grid

Lock Toolbars

Lock Palettes

Movable, Dockable Toolbars

Redway Redsdk Wireframe Drawing speed-up

Rulers

Scrollbars

Shortcut keys

Status Bar Toolbars

Variable aperture size for cursor

TurboCAD	Professional v17

TurboCAD Professional v17	TuirboCAD Deluxe v17
Yes	Yes

Yes
Yes
3
Yes
(Design Director) for Cameras,
Categories, Graphic, Layers,
Lights, Views, and Work planes
Yes
No
Yes

100
3
Yes
(Design Director) for Cameras, Categories, Graphic, Layers, Lights, Views, and Work planes
Yes
No
Yes
Yes
No
Yes

Yes

Yes

Views, Cameras, Viewing		
Pre-defined Views	12 - Top, Bottom, Left, Right, Front, Back, Isometric (SE,SW, NE, NW), Diametric (SE, SW, NE, NW)	12 - Top, Bottom, Left, Right, Front, Back, Isometric (SE,SW, NE, NW), Diametric (SE, SW, NE, NW)
By Workplane By World	Yes Yes	Yes Yes
Camera Movements	10 - Left, Right, Up, Down, Turn Right, Turn Left, Turn Up, Turn Down, Rotate Right, Rotate Left	10 - Left, Right, Up, Down, Turn Right, Turn Left, Turn Up, Turn Down, Rotate Right, Rotate Left
Camera Object Views	10 - Left, Right, Up, Down, Turn Right, Turn Left, Turn Up, Turn Down, Rotate Right, Rotate Left	10 - Left, Right, Up, Down, Turn Right, Turn Left, Turn Up, Turn Down, Rotate Right, Rotate Left
Cursor Move	3 - Normal to View, Parallel to View, By 2 Points	3 - Normal to View, Parallel to View, By 2 Points
Pan Perspective Previous QuickTime Movie Creation Orthographic Origin	2- Pan to Point, Vector Pan Yes Yes Yes - Object and Panoramic Yes Yes	2- Pan to Point, Vector Pan Yes Yes Yes Yes - Object and Panoramic Yes Yes
Walkthrough	Yes - Examine, Roll, Turn, Slide, Walk	Yes - Examine, Roll, Turn, Slide, Walk
Zooms	Discrete levels and including smooth infinite zoom	Discrete levels and including smooth infinite zoom
Workplane Settings		
Auto Workplane	Yes	Yes
By 3 Points By Entity/Object	Yes Yes	Yes Yes

By Facet By View By World By Z Axis Named Origin Orthographic Previous Show/Hide

Yes
Yes

Yes	
Yes	
Yes	•

Yes, 7 types - Bottom, Top, Center, Left, Right, Middle, Along Line.

Yes

General Editing Tools, Other

Align

Batch File Converter

Copy

Database Connectivity Manager/Palette

Distribute

Drawing Compare Utility

Draw Order

Geometric Aids

Explode
Group
Hidden Line Settings
Integrated Calculator
Line Width Scaling
Macro Recorder
Multiple UNDO/REDO
MultiText

Yes, 7 types - Bottom, To	op, Center,
Left, Right, Middle, Ald	ong Line.

Yes

Yes, 9 types - Array, Linear, Rad	ial,
Array Fit, Linear Fit, Radial Fit	,
Mirror, Offset, Vector.	

Yes, 9 types - Array, Linear, Radial, Array Fit, Linear Fit, Radial Fit, Mirror, Offset, Vector.

Yes - Platinum ver.

Yes, 8 types - Bottom, Top, Center, Left, Right, Middle, Distance, Space

es - Bring to Front, Send to Back
Forward One, Back One

Yes - Bring to Front, Send to Back, Forward One, Back One

No

Yes - Extended Orthogonal,
Apparent Extensions

Yes
Yes
Yes Yes
Yes

Yes - Extended Orthogonal, Apparent Extensions

Yes
Yes
Yes Yes
Yes

Org Chart Wizard	Yes	Yes
Page Setup Manager	Yes	Yes
Plotting/ Plot Style Manager	Limited	Limited
Pre-defined Drawing Templates	17	17
Print Style Manager	Yes	Yes
Raster to Vector Tracings (integrated)	Yes	Yes
Spell Checker	Yes - selected text or entire drawing	Yes - selected text or entire drawing
Symbols/Block Editors	Yes	Yes
Table Styles	Yes	Yes
Tables	Yes	Yes
Simple Text	Yes	Yes
Multi Text	Yes	Yes
Text Along a Curve	Yes	Yes
Transforms	Yes - 4	Yes - 4
Transform Recorder	Yes	Yes
Lavana		
Layers Create Custom Layer Sets	Yes	Yes
Layer Filters	Yes	Yes
Layer Fillers	Tes	Tes
Layer Properties	8 - Active, Color, Line Style, Lock, Pen Width, Order, Print Style, Visible	8 - Active, Color, Line Style, Lock, Pen Width, Order, Print Style, Visible
Layer Properties Manager	Yes	Yes
Lock/Unlock	Yes	Yes
Plotstyle Layer Order	Yes Yes	Yes Yes
Set Color, Linetype, Lineweight, Name	Yes	Yes
Set Color, Linetype, Lineweight, Name	Tes	Tes
Workspace Settings	Not pre-defined; however can be customized	Not pre-defined; however can be customized
2D Drawing Tools		
Arcs	13 tools	13 tools
Pozier euro	Yes	Yes
Bezier curve Circles	8 types	8 types
Construction Lines	Yes	Yes
Double Lines	Yes - 8 tools	Yes - 8 tools
Ellipses	3 tools	3 tools
Gear Contour generator	Yes	No
Irregular Polygon	Yes	Yes
Lines	5 tools	5 tools
Multilines	Yes - 8 tools	Yes - 8 tools
Parallel Lines	Yes	Yes
Perpendicular Lines	Voc	Voc

Yes

Yes

Perpendicular Lines

Points	6 styles	6 styles
Regular Polygon (equal length sides)	Yes	Yes
Polyline	Yes	Yes
Region	Yes	Yes
Revision Cloud	Yes	Yes
Spline curve	Yes	Yes
2D Editing/Modifying		
Array copy	Yes	Yes
Arc Compliment	Yes	Yes
Boolean Add, Subtract and Intersect	Yes	Yes
Break	Yes	Yes
Chain/Join polyline	Yes	Yes
Chamfer	Yes - multiple options	Yes - multiple options
Convert to Curve	Yes	Yes
Drafting Palette - create associative 2D X-sec.from 3D models	Yes	No
Extend	Yes	Yes
Extend Objects to Boundary	Yes - only for lines	Yes - only for lines
Fillet	Yes - multiple options	Yes - multiple options
Format Painter	Yes	Yes
In-Place Text Editing	Yes	Yes
Insert +/- tolerancing symbols into multi-text	Yes	Yes
Intersect 2 Double Lines	Yes	Yes
Join	Yes - arcs, lines, polylines, splines, elliptical arcs and walls	Yes - arcs, lines, polylines, splines, elliptical arcs and walls
Line Length Meet 2 Double Lines	Yes Yes	Yes Yes
Meet 2 Lines	Yes	Yes
Move Curve points	Yes	Yes
Multiple Object Trim and Extend	Yes	Yes
Object Trim	Yes	Yes
Offset	Yes	Yes
Profile Along a Path	Yes	Yes
Scale	Yes	Yes
Section Detail	Yes	Yes
Selection Fence	Yes	Yes
Shrink/Extend tool	Yes	Yes
Split	Yes	Yes
Stretch objects	Yes	Yes
Trim	Yes	Yes
Vector copy - distance and angle	Yes	Yes
Viewport Explode - Flatten 3D models to 2D Geometries	Yes	Yes
X Meet Double Lines	Yes	Yes
2D and 3D Measurements		
Angle	Yes	Yes
Area	Yes	Yes
Calculate Hatch Areas	Yes	Yes
Center of Gravity	Yes	Yes
Coordinates of the Point	Yes	Yes
Curve Length	Yes	Yes
Distance	Yes	Yes
Extra Data from Objects (Including Blocks and Attributes)	Yes	Yes

Geometric Analysis

Surface Area and Volume of 3D Surfaces Volume

Blocks, Symbols and Parametric Parts

2D and 3D Symbols

Block Editor

Compound Profiles, Constraints in Blocks

Dynamic Blocks

In-place Editing of Blocks and Groups

Parametric Part Libraries

Parametric Parts Manager and Scripting Language

Pre-defined Blocks

Relocate Block Reference Point

Specify Block Insertion Point, Rotation and Scaling

Surface Roughness Symbol

Visibility Control

Weld Symbol (parametric)

Xclip support

XREFs

XREF Binding

XREF Manager

Constraints and Tolerances

Automatic Dimensions Driving Dimensions Dimensional Constraints Geometric Constraints

Geometric Tolerances Tolerance symbols

Yes - Volume, Base Moments of Inertia, Base Section Modulus, Center of Gravity, Radius of Gyration, Main Axis, Area, Moment of Inertia relative to Axis, Section Modulus relative to Axis
Yes
Yes

Yes - Volume, Base Moments of Inertia, Base Section Modulus, Center of Gravity, Radius of Gyration, Main Axis, Area, Moment of Inertia relative to Axis, Section Modulus relative to Axis	
Yes	L
Yes	L

Thousands	
Yes	
Yes	
No	
Yes	
Yes	
Yes	
0	
Yes	
Yes	
Yes	
No	
Yes	

Hundreds
Yes
No
Yes
Yes
No
Yes
No
Yes
Yes
Yes
Yes

No

Yes Yes

No	
No	

Dimensions

2 monorone		
Types	16 - Angular, Angular for Arc (new), Baseline, Continuous, Datum, Diameter, Distance, Incremental, Leader, Orthogonal, Parallel, Quick, Radius, Rotated, Smart, Surveyor Linear (new)	16 - Angular, Angular for Arc (new), Baseline, Continuous, Datum, Diameter, Distance, Incremental, Leader, Orthogonal, Parallel, Quick, Radius, Rotated, Smart, Surveyor Linear (new)
Associative	Yes - plus editable driving dimensions	Yes - plus editable driving dimensions
Automatic	Yes	Yes
Center Mark tool	Yes - if center snap enabled	Yes - if center snap enabled
Dimension Style Manager/Editor	Yes	Yes
Fractional	Yes	Yes
Multileader	Yes	Yes
Non-associative	Yes	Yes
Set Tolerances to Dimensions	Yes	Yes
Hatching and Fills Associative Calculate Hatch Areas	Yes Vac	Yes Vac

Н

Calculate Hatch Areas Edit Hatch boundaries

Gradient fills

Hatch Patterns

Hatch Pattern editor (user definable) Island detection Path Pick point

Printing and Paper Space Lay-out
Create Named Viewports, Insert into Paper Space
CTB Print Style Support

162
Yes
Yes
Yes - 5 types, plus unlimited custom creation
Comes with 76, additional can be created
Yes
Yes
Yes
Yes
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L	res
	Yes
	Yes
	Yes - 5 types, plus unlimited custom creation
	Comes with 76, additional can be created
Г	Yes
	Yes
	Yes
	Yes

Yes	
Yes	

Yes
Yes

Snaps

14 - Center, Center of Extents, Divide point, Geometric, Grid, Intersection, Mid-point, Nearest on Facet, Nearest on Graphic, Orthogonal, Quadrant, Tangent to an Arc, Vertex, Workplane Intersection

14 - Center, Center of Extents, Divide point, Geometric, Grid, Intersection, Mid-point, Nearest on Facet, Nearest on Graphic, Orthogonal, Quadrant, Tangent to an Arc, Vertex, Workplane Intersection

3D Drawing and Editing

Overall Align

Assemble

Automatic Workplane by Face

Bend tool

Blending, with preview

Boolean Add (Union), Subtract, Intersect

Boolean Slice

Branched Lofting

Compound Profiles

Create Solid from Face Create Solid from Surface

Create Surface from Face

Create Surface from Profile

Create Surface from Solid

Extrude

Extrude to Face

Face-to-face Lofting

Facet editing

Facet offset

Filleting

Flange

Geometric Tolerance tool

Helix tool

Hole tool

Imprint

Intersect and Slice

Lofting

Offset

Part Tree with Editor

Patterns

Piping (convert from 3D fillet)

Yes		

Yes, 6 tools - By Axis, by 3 Points, by Edge and Point, by Facet, by Tangents, Set Assembly Axis

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Yes
Yes - Platinum ver.
Yes
Yes - Platinum ver.
Yes
Yes - Platinum ver.
Yes - Platinum ver.
Yes
Yes - 5 Types, Platinum ver.
Yes - Platinum ver.
Yes
Yes
Yes
Yes

Yes - 5 Types, Platinum ver.

Yes

Limited
Yes
Yes, 3 tools - By 3 Points, by Edge and Point, by Facet
Yes
No
No
Yes
Yes
No
Yes
No

Polylines	Yes	Yes
Press/Pull (Quick Pull)	No	No
Primitives - solid and surface	Yes	TC Surfaces only
Revolve	Yes	Yes
Section	Yes	No
Shell solid	Yes	No
Splines	Yes	Yes
Surfaces from 2D profiles	Yes	No
Sweeps Thread tool	Yes Yes	No No
Tube Bend	Yes - Platinum ver.	No
Tube Flange	Yes - Platinum ver.	No
Twisted Extrude	Yes - Platinum ver.	No
Unbend Sheet	Yes - Platinum ver.	No
Unfold Face	Yes - Platinum ver.	No
	-	-
3D Modeling		
Solid Modeler	Yes - ACIS®v20	No
Deformable Modeling	Yes	No
Rendering and Visualization		
256-color Shading	Yes	Yes
Alpha Channel support on PNG and GIF file exports	Yes	Yes
Apply different materials to different facets of the same object	Yes	Yes
Advanced Render Styles, including Sketch Rendering	Yes	No
Ambient Lights	Yes	Yes
Camera position	Yes	Yes
Color Transparency	Yes	Yes
Director/Editor/Palette for managing environments	Yes	Yes
Environment/Reflection Maps	Yes - including Environments Editor	Yes - including Environments Editor
Index Color Support	Yes	Yes
mack dolor dupport	163	100
	Dozens including: Angle, Color,	
Linkston Westelder	Direction, Intensity, LOD (Skylight	Dozens including: Angle, Color, Direction,
Lighting Variables	only), Penumbra (Spot only),	Intensity, LOD (Skylight only), Penumbra (Spot only), Position, Umbra (Spot only)
	Position, Umbra (Spot only)	orny), r domon, ornora (oper orny)
LightWorks Archive support	Yes	Yes
Luminance of Objects	Yes - including Luminance	Yes - including Luminance Palette/Manager
•	Palette/Manager	
Lighting , Luminance Editor Material Editor	Yes Yes	Yes Yes
Material Types for rendered objects*	Over 700 Materials	Over 700 Materials
Material mapping to surface type	No	No
., -		
Motion Path Animation	No - requires Animation Lab plug-in	No - requires Animation Lab plug-in
Open GL rendering	Yes	Yes
Photometric Lighting settings	Yes, 5 types - Candela, Empirical,	Yes, 5 types - Candela, Empirical, Kilocandela,
. Hotomotho Eighting Sottings	Kilocandela, Kilolumen, Lumen	Kilolumen, Lumen
Photorealistic Rendering	Yes - LightWorks® v7.5	Yes - LightWorks® v7.5
Photo Ray trace Rendering	Yes - LightWorks®	Yes - LightWorks®
Procedural Maps for Materials	Yes	Yes
Quick Time VR Support	Yes	Yes
Ray tracing	Yes	Yes
Render Styles	Yes	Yes
True Color Support	Yes	Yes

Architectural, Civil Tools

Convert double polyline to wall

Doors - Parametric**

Edit Profile for Doors and Walls

Import of DWG files with AutoCAD Architecture/ADT Extensions Integrated Building Materials Scheduler (1st Pricing)

Markers

Multi-Component Walls

Muntins Rail tool

Roof tool

Schedule

Slab Tool

Sections and Elevations Tool

Stairs - Parametric**

Style Manager Palette

Terrain tool

Walls - Curved and Straight

Wall Bottom and Top Modifier tools

Wall Dimension tool

Wall Linking

Windows - Parametric**

Woodworking Layout Wizard and tool

Join/Split/Modify/Dimension Walls

Interoperability

File Open, Insert or attach Bitmap

File Save as or Export

HTML Publishing Formats

Proxy Object Support

Programmability

Included SDK

Macro Recorder

Documentation, Online Help, Tutorials, and Support Context-sensitive Help

Free Email and Web-based support

Free Telephone Support

PDF Reference Manual

Printed Getting Started Guide

Searchable, Indexed Online Help

- * See Material Libraries Tab for full listing
- ** See Stairs, Windows and Doors tab for full listing

Yes
Yes
Yes
Yes
res - ioi Doors, Williaows and Glass Blocks
Yes - 4 styles
Yes
res - ioi Doors and Willdows,
Yes - Platinum ver.
Yes
Yes - for Windows, Doors, Walls and Slabs - Plat ver.
Yes - Platinum ver.
Yes
31 formats, see separate table

Yes	
Yes	
Yes	
Yes	
Yes - for Doors, Windows and Gla	ss Blocks
Yes - 4 styles	
Yes	
No	
No	
Yes	
Yes	
No	
No	
No	
Limited	
No	
Yes	
No	
No	
No	
Yes	
No	
No	

31 formats, see separate table
31 formats, see separate table
JPG, DWF, PNG
Yes

Yes

Yes

17 formats, see separate table	
19 formats, see separate table	
JPG, DWF, PNG	
Yes	

No

Yes	
Yes	
Yes	
Ves	

Yes	Yes
Yes	Yes
	-



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