

**PLUS!** Includes  
CAD Fundamentals  
2D CAD Training  
FREE!

TurboCAD® Deluxe 17 is powerful and complete 2D/3D CAD software. Precision drafting, detailing, and modelling, plus photorealistic lighting and rendering bring ideas to life.

*"MSI has once again delivered a good value product"*

**Micro Mart**

*"A well specified and good-value CAD program"*

**PC Advisor**

*"Powerful features, flexibility and a reasonable price make this a good option"*

**PC Utilities**



**Avanquest Software Publishing Ltd**

**Meadow Lane, St. Ives, Cambridgeshire, PE27 4LG, UK**

**Tel: 01480 496666, Fax: 01480 460206**

**Affordable** – an exceptional value in 2D/3D CAD

**Easy To Learn and Use** - Beginner, intermediate and advanced menu settings and context sensitive help in a familiar Windows® style interface get results fast.

**2D Drafting & 3D Modelling In One Application** - Packed with 2D drawing, modifying, and dimensioning tools, plus 3D modelling, photorealistic rendering, advanced lighting effects, transparency options, camera views and more!

**CAD & Graphics Compatibility** - Easily import and export from the most popular industry-standard file formats including AutoCAD® and Google™ SketchUp.

**Proven Solution for Over Two Decades**

<b>Format:</b>	<b>Windows DVD-ROM</b>
<b>SRP</b>	<b>£81.70 inc VAT</b>
<b>Genre:</b>	<b>CAD</b>
<b>Box type</b>	<b>Mini-box</b>
<b>Stock code</b>	<b>AVQ-ITCD-BOX-V17-SM</b>
<b>Barcode:</b>	<b>5 016488 121125</b>

**System Requirements:**

Minimum:

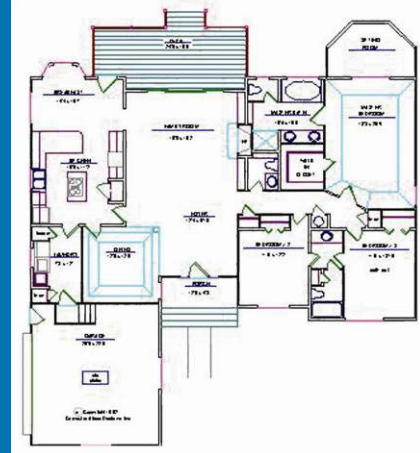
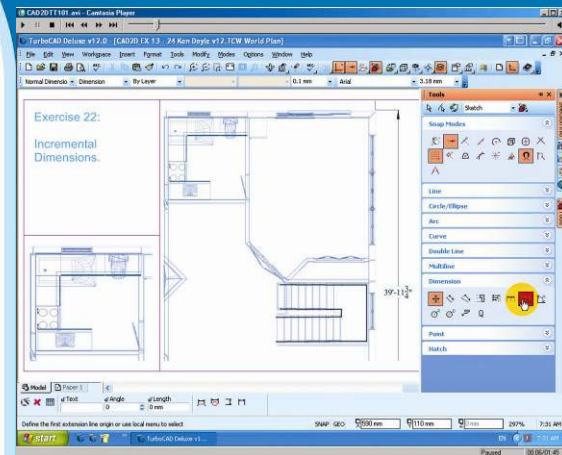
Pentium IV Processor, Microsoft® Windows XP, Microsoft® Vista, Windows 7, 300 MB of free hard disk space depending on accessory applications installed, 64 MB of swap space, Super VGA (1024 x768) display, High Colour (16 bit) graphics card, DVD-ROM drive, Adobe Reader v6 or higher. Recommended v7 or higher.

Recommended: 2 GHz Processor, 2 GB RAM, 3D Graphics accelerator card, Wheel mouse, Internet connection, Microsoft® Internet Explorer™ required for Internet registration, Macromedia® Flash™ plug-in required for on-line tutorials

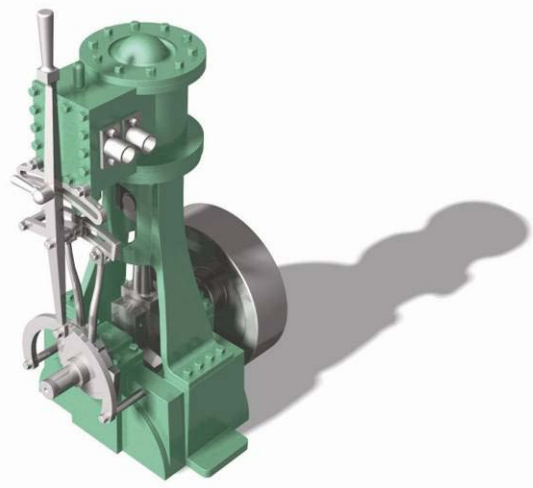
TurboCAD® Deluxe gives you unlimited design options with hundreds of professional drafting and design tools, incredible file support, video and interactive tutorials, photorealistic rendering and pre-drawn drag-and-drop symbols. It's everything you need to create presentation-ready home plans, technical drawings, mechanical designs, illustrations, school projects and more.

## NEW AND IMPROVED FEATURES

- ✓ **IMPROVED Layer Management** – The Design Director simplifies layer management with the addition of Line Style, Pen Width and Print Style parameters to Design Director and Drawing Setup.
- ✓ **NEW Layer Filters** - Layer filters, that are .dwg compatible, help you manage large, complex drawings with ease. Simply organise layers by a defined set of parameters. All layers which meet the parameters define by the filter will be grouped in the lower panel of the Design Director.
- ✓ **NEW Section Detail Tool** - Enables closed 2D entities (circles, polygons, polylines) to act as a cutting contour with other intersecting 2D objects.
- ✓ **NEW Colour Table (CTB) Print Style Support** - AutoCAD® Colour Table (.CTB) file support added to existing support of Style Table (STD) print styles.
- ✓ **IMPROVED Blocks and Groups** - In-place editing of blocks and groups. Now users can edit and customise individual Blocks.
- ✓ **NEW Index Colour Support** - Index Colours added to support of True Colours. Includes proper round-tripping of DWG files and the Colour Dialogue's Index colours match AutoCAD LT colours 1:1.
- ✓ **NEW Line Width Scaling** - New value "Device width" for TC pen property "Line Width Scale System" was added.
- ✓ **NEW Multilanguage support** - It is now possible to input, edit and visualise objects' name (Layers, blocks, styles, etc.) independent of the current local OS system settings.
- ✓ **IMPROVED Meet Two Lines Tool** - Bezier and Spline curves are now supported
- ✓ **IMPROVED Multi-Text, Text** - Much easier to now get into edit mode as editing is turned on when either the MultiText or Text tools are enabled. Able to enter larger text strings without degradation of performance.



**New & Improved Tools for Version 17!**



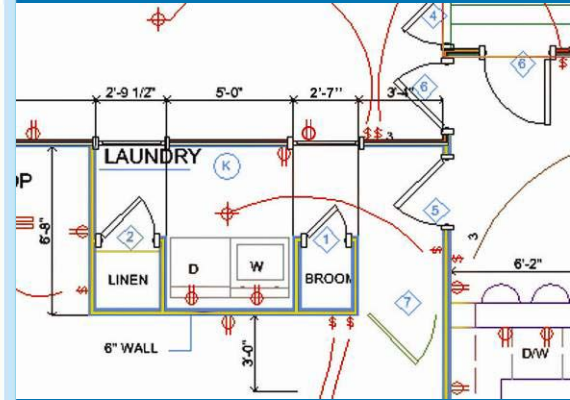
## NEW AND IMPROVED FEATURES (continued)

- ✓ **IMPROVED Paper Space Templates** – Now you can insert and extract specific Paper Spaces from other TCT (TurboCAD templates), TCW and DWG files. Also, define different printers and printer settings for each Paper Space in a drawing.
- ✓ **IMPROVED Pick-Point Hatching** - Redesigned tool that streamlines the pick point hatch process.
- ✓ **IMPROVED Shrink/Extend Tool** - Bezier and NURBs curves are now supported.
- ✓ **IMPROVED Templates** - Improved Architectural and Metric templates.
- ✓ **IMPROVED Walls** - New Link Wall Segments option added; new property, Autocleanup added.
- ✓ **IMPROVED .DWG/.DXF Filters** - Ability to define line weights during file import; define how arc elements convert during export. Ability to read Multi-Leader objects and styles. Now possible to control Xrefs through Xref Layers.
- ✓ **IMPROVED .EPS Filter** - Updated and improved file import capabilities.
- ✓ **IMPROVED .SKP (Google SketchUp) Filter** – Better .SKP file export.

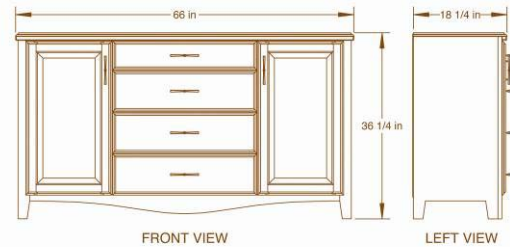
## COMPLETE SET OF 2D DRAFTING & 3D MODELLING TOOLS

TurboCAD employs a large selection of line, arc, curve, spline tools, and other expected tools, so that no matter the situation you've got access to the right tool for the job. When used with TurboCAD snaps, modification tools, and drawing aids you will be able to quickly draft and document your designs. Below is only a small sample of the drawing, modifying, and dimensioning tools.

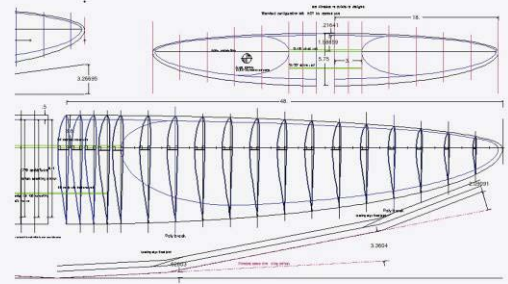
- ✓ **Drawing Tools** Arc, Bezier Curve, Circles, Command Line, Construction Lines, Double Line, Ellipse, Line, Multiline, Parallel Line, Perpendicular Line, Points, Polygon, Polyline, Revision Cloud, Spline Curve, Trim, Wall
- ✓ **Modelling Tools** Box, Cone, Cylinder, Sphere, Wedge, Prism, Doughnut, Extrude, Helix, Revolve, Sweep, Mesh, Booleans And Splines.
- ✓ **Editing/Modification Tools** Align, Array, Boolean operations, Chamfer, Distribute, Double Line Modify, Erase, Fillet, Join Polyline, Meet two lines, Mirror, Multi shrink/extend line, Offset, Rotate, Scale, Split, Stretch, Shrink/extend line, Transform, Trim



## 2D Drafting & 3D Modelling



## Drawing, Modifying and Dimensioning Tools



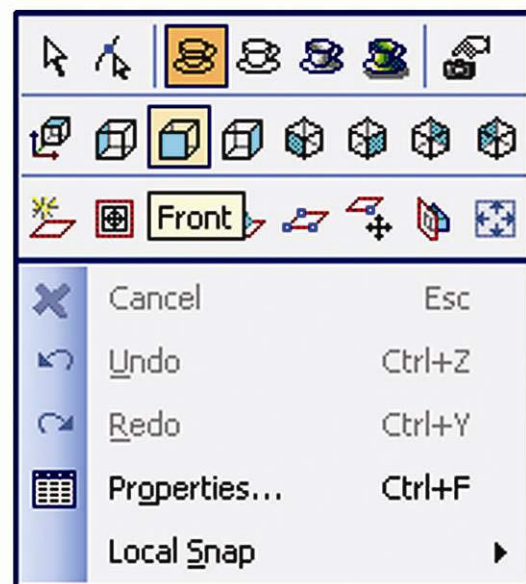
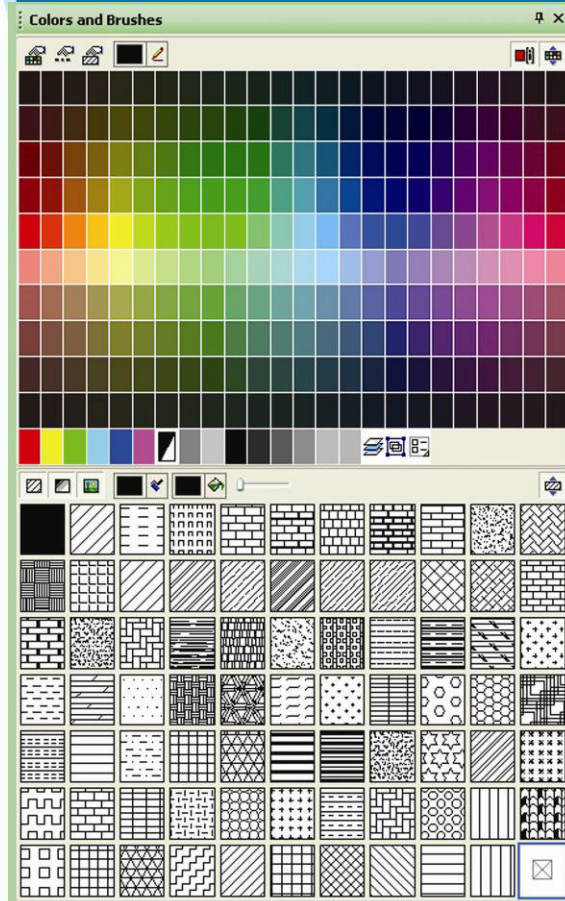
## Improved .DWG, .DXF, .EPS and .SKP Filters

## COMPLETE SET OF 2D DRAFTING & 3D MODELLING TOOLS (continued)

- ✓ **Dimension Types** Angular, Baseline, Continuous, Datum, Diameter, Incremental, Orthogonal, Parallel, Quick, Radial, Rotated, String, Smart

## USABILITY AND INTERFACE

- ✓ **Context-Sensitive Help** - Right-click to instantly access recently used tools, recently entered values, and a quick way to change or reset reference points. If a TurboCAD tool is active, the context menu provides a contextual toolbar as well, with additional similar tools and functions.
- ✓ **Flexible User Interface** - Turn on and off only the tools you want to see as you work in a familiar, windows-like, customisable interface. Display TurboCAD's comprehensive set of 2D/3D design tools with full explanations in the beginner mode. Switch to intermediate or expert mode to gain screen space as you become more familiar with the program.
- ✓ **Page Set Up Wizard** Breeze through questions designed to help you define your drawing's size and orientation, units of measurement, printing scale and viewpoints.
- ✓ **Advanced Handle-Based Editing** Save time and draw more accurately, more quickly. TurboCAD provides handles for scaling, but also for rotating, moving and aligning objects
- ✓ **Snaps & Geometric Alignment Aids** Draw lines quickly and let snap tools automatically align them with the closest centre point, end point, or dozens of points you choose. Geometric alignment aids improve snap indicators.
- ✓ **2D & 3D Text Editing** Create and edit text without leaving your drawing. Plus, choose from thousands of colours for text and background
- ✓ **Colours, Brushes, Bitmap and Gradient Fills, and Transparency** TurboCAD allows for hatch patterns and gradients to be layered with transparency. Custom bitmaps, such as your company logo, may be used as well. This empowers you to much more clearly and precisely communicate construction or assembly details.
- ✓ **Table Objects** Create a table on the fly, or import a table from DWG/DXF files.
- ✓ **Fill Schedule Wizard** Create and fill the schedule table with drawing information



## ARCHITECTURAL

TurboCAD Deluxe 17 includes practical tools tailored to architects, builders, and civil engineers. Design and showcase floor plans, decks, kitchens, bathrooms, room additions and more!

- ✓ **Intelligent Walls** Self-healing walls automatically join and intersect as you design in 2D or 3D. View wall dimensions with a single-click.
- ✓ **Automatic Wall Openings** “Slide” doors, windows, arches or any shape to create “openings” in walls with linked 2D and 3D views. Set vertical alignment properties for precise placement.
- ✓ **Parametric Doors & Windows** Window and Door dimensions can be scaled to meet your design needs. Further customise with materials and colours.
- ✓ **Hatch Patterns and Fills** Choose from over 70 hatch patterns (including colours) to visually identify various components of your drawing. Bitmaps, like your company logo, or gradient fills may also be used with transparency.
- ✓ **Fractional Dimensions** Display fractions in stacked, diagonal, or in-line layout to accommodate your personal preferences.
- ✓ **Point Marker Tool** Automatically number objects such as rooms, doors or windows. Great for creating legends, call outs, or simply mapping points and adding notes to your drawings.

## MECHANICAL

TurboCAD Deluxe 17 offers innovative tools tailored to mechanical engineers and designers. Design everything from engines and mechanical parts, to circuit boards, patent drawings and more.

- ✓ **2D & 3D Boolean operations** Use two existing objects and combine, subtract, intersect, or slice to create a new object. Select multiple entities for addition or subtraction.
- ✓ **Revolve** Move a 2D object around a revolution axis to create a 3D object.
- ✓ **Extrude** Pull complex 3D models from simple 2D shapes.
- ✓ **Sweeps** Extrude shapes along a path, perfect for drafting irregular objects.
- ✓ **Chain Polyline** Chain Polyline allows for faster design by allowing you to connect intersecting objects or portions of objects into a single polyline which can be then extruded, revolved or swept
- ✓ **Automatic, Editable Meshes** Easily create complex meshes by entering coordinate information or importing matrix data from Excel®, then view, edit and render.
- ✓ **Colour Transparency** Screen back the colour of an object in the foreground to display or emphasise hidden details in the background.



### *Innovative Architectural Tools*



### *Mechanical Tools Tailored to Engineers and Designers*



### *Design Everything from Engines to Circuit Boards*

## VISUALISATION

- ✓ **Lightworks® Photorealistic Rendering** TurboCAD Deluxe includes powerful, easy-to-use rendering and visualisation technology by LightWorks. Define physically accurate materials such as glass, mirrors, and polished or reflective surfaces with ray tracing, allowing anyone to create stunning photorealistic designs.
- ✓ **Materials Library** Choose from or create your own realistic material patterns, transparency, reflectance, and texture types and settings as well as multiple wrapping options to make designs look like they will in real life.
- ✓ **Realistic Lighting Effects** Multiple light types and settings cast hard and soft shadows and reflect accurately off reflective surfaces with ray tracing allowing you to create photorealistic designs. Fog and scattering mediums are also supported.
- ✓ **Design Director** Organise, access, and explore design alternatives easily in the Design Director Palette. Create layer templates, light templates, camera templates and powerful layer for use on different designs.
- ✓ **Floating and Shaped Viewports** Create viewports of Model space in multiple Paper spaces. Edit your viewports by changing their shape or the layers that they display. You can even render within a viewport.
- ✓ **Multiple Drawings/Multiple Paper Space** Build multiple drawings, each with multiple paper spaces, with independent settings (grid units, etc.); then use tabs to quickly switch between paper spaces.

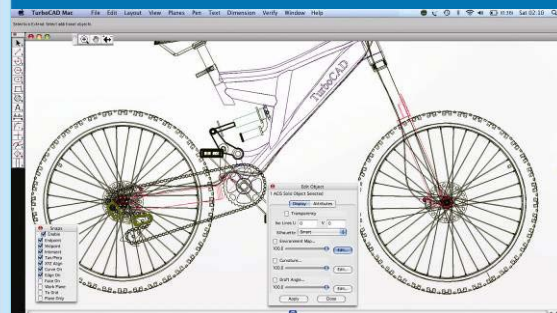
## COMPATIBLE

TurboCAD Deluxe 17 supports 28 industry-standard formats, including AutoCAD® and Google™ SketchUp™ making it an excellent companion product..

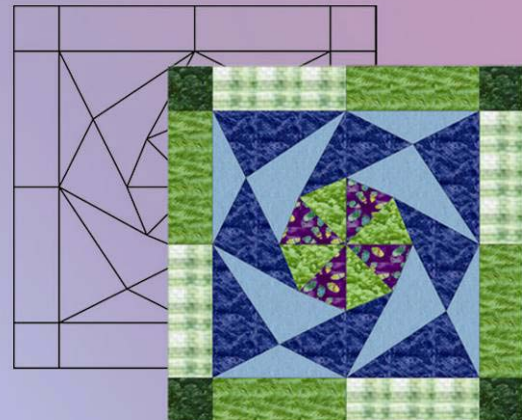
- ✓ **Google™ SketchUp™ SKP Import/Export** Import detailed information from your SketchUp model into TurboCAD. Supplemental rendering, lighting and materials information is also imported if the SketchUp model has been rendered with IMSI/Design's IDX Renditioner product, a plug-in to SketchUp. You can also convert your TurboCAD models into native SketchUp (.SKP) files for seamless import into Google SketchUp.
- ✓ **AutoCAD® DWG/DXF Import/Export** TurboCAD has always offered excellent compatibility with native AutoCAD and AutoCAD LT files. There is even the ability to export XREFs with DWG or DXF drawings offers even greater AutoCAD file compatibility.
- ✓ **Xref Manager** Manage external references (Xrefs) like a parts catalogue in your TurboCAD drawing. Xrefs can also be exported with DWG or DXF drawings for greater AutoCAD® file compatibility.
- ✓ **PDF Publishing** Save your drawing as PDF documents for easy sharing. Plus, export paper spaces, customize your fonts and define your paper widths and heights.



*LightWorks Photo Realistic Rendering*



*Materials Library*



*Complete File Compatibility*