

100% compatible to DWG

# enggCad8®

Secured CAD Software

Your Key Tool to Greater Value for Engineering



- ✓ Professional CAD
- ✓ 100% compatible to DWG
- ✓ Industry-proven technology
- ✓ Fits in existing workflows
- ✓ Limitless system customization

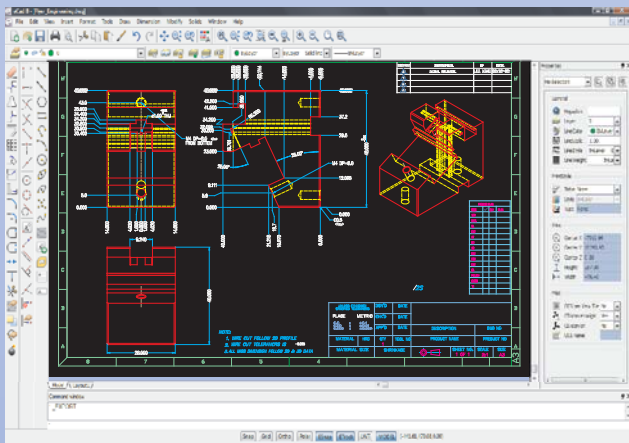
**Enhancement:**

- + aDim - Productivity tools for auto dimensioning
- + PDFin - Import of PDF files and convert to DWG files
- + enggPaper - Security tools for distribution of drawings

### Proven Exceptional Compatibility

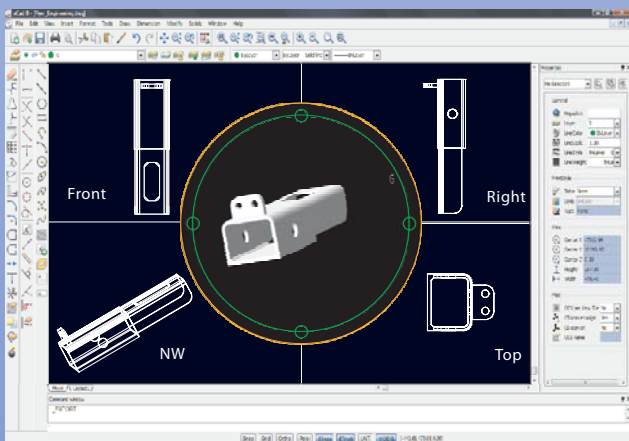
enggCad8® provides an exceptional degree of compatibility with CAD Industry standard. enggCad8® is able to Read/ Write DWG, DXF & DWF file format. enggCad8® includes over 400 powerful two and three-dimensional CAD functions. enggCad8® has an intuitive operational design & extensive help system is always available. System command charts are available on demand, letting even novice users get up and running right away; AutoCAD® familiar users will feel at home right away using the optional AutoCAD® style desktop.

With direct file support for DWG 2009 and DXF 2009 formats and "Round-Trip" retention of drawing elements, enggCad8® users can work side-by-side in a mixed AutoCAD®/enggCad8® environment.



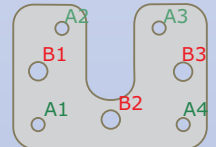
### Visualization Tools - 3D Solid Modeller\*

enggCad8® build in with full ACIS 3D modeling and editing tools for users to create virtual 3D components for machine design and analysis. The visualization ability allows the users re-orient the model dynamically in real-time shaded 3-D and helps the designer maintain a mental 3-D image. This powerful 3D tools providing the need of engineers, designers and other creative professionals to design the greatest products.



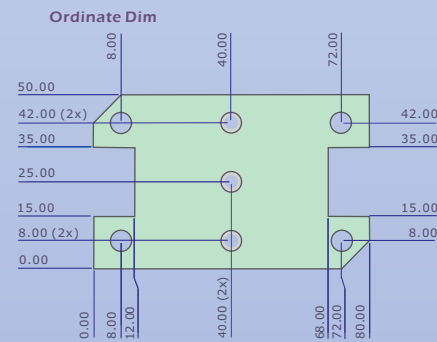
### Productivity Tools - aDim

enggCad8® auto-dimension, aDim function provides Ordinate and Hole List capabilities. This function greatly reduces your dimensioning time from hours to a mere minute. Many hundreds Manufacturers & Tool Makers are depending on this for their survival.



Hole List

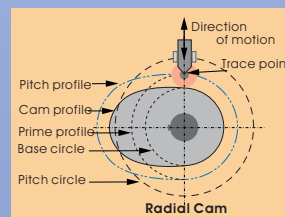
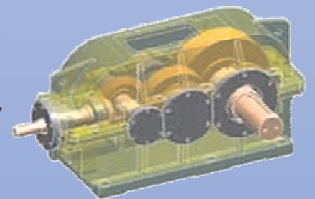
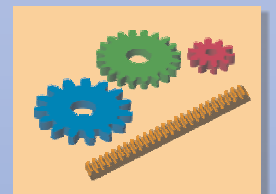
TEXT	X	Y	DIA	QTY
A1	-15.0	-1.0	3.0	4
A2	-10.0	19.0		
A3	10.0	19.0		
A4	15.0	-1.0		
B1	-15.0	10.0	4.0	3
B2	0.0	0.0		
B3	15.0	10.0		



A super productivity tool created with fast and powerful ordinate & holes listing functions for user to get the dimension out in a second and no error at all.

### Special Tools - Gear Generation\*

Gear generation tools help an engineer accelerating the calculation of the parameters, strength requirement for the customize gear box design and shorten the manufacturing process and time. It supports design of spur gear and rack gear types. With the flexibility of the system user can change the parameter setting to see the "what if" situation.

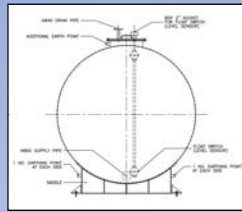


### Special Tools - Cam Slope Generator\*

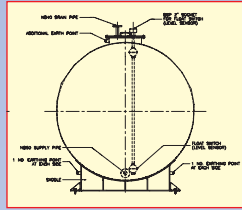
If you work with automation design for transformation application in converting rotation into linear or other motion by means of cam device, the enggCad8® cam slope generator is a key tool you'll need handy at all times. This function offers a significant simplification in the design and fabrication of assembled cam and follower systems.

## Life Saver Tools - PDFin

enggCad8® PDFin, PDF to DWG converter, help you convert PDF to native DWG file or PDF to DXF file; high quality, ease of use; the scale for conversion is 1:1. The converted drawing kept the vector information of PDF, and the scale is depends on the page size, image resolution, the DPI, etc. It's a very useful tool for engineer free from the lengthy and tedious tracing work on PDF drawing. The user can straightly design the engineering work on top of the converted DWG file.



PDF File

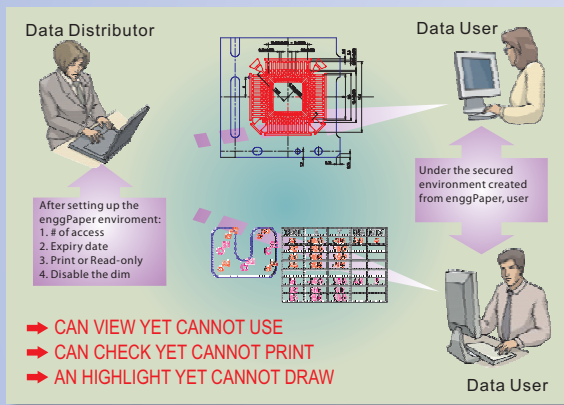


DWG file (Converted)

## Security Tools - enggPaper®

enggCad8® provides secured drawing distribution and collaboration using enggPaper® function. This enggPaper solution is far more superior than PDF because it does not requires any viewer and can be used for checking dimensions and layers detail with paperspace views.

enggPaper® security functions include PASSWORD, DATE & PRINT control. With this function you can distribute and share the complex and confidential CAD drawings among the suppliers, customers and partners without the need to access to the original native CAD software and yet you can have a control over the content.



## Customize User Interface (CUI) - Limitless Program Customization \*

Because customization, personalization and convenience are increasingly important to CAD's users, enggCad8's visual Desktop and Menu Editor provide, users with no programming skills can easily modify command dialogs, pull-down menus and toolbars suit their specific needs. Similarly, users can easily assign aliases or hot-keys to command functions to optimise productivity across their entire organization.



## Programming Interface (API) - Application Development \*

enggCAD8® is fully programmable using Lisp, Visual C++, or Delphi programming languages. By using its application Programming Interface (API), users can quickly create productivity enhancing extensions and applications optimised for their enterprise.

To be our partner you can either develop an add on for enggCad8® that combines your application and CAD features from enggCad8® as one solution to fully exploit your market channel.

\* available features for Pro-edition

## enggCAD8® and AutoCAD® 2009 Comparison Chart

Features	enggCad8	AutoCAD 2009
<b>Files</b>		
AutoCAD 2009 native file support	✓	✓
DWG for AutoCAD version 2.5 to 2009(Save from R14 only)	✓	✓
Open as Read-Only	✓	✓
Support for DWGCODEPAGE	✓	✓
Support for DWT files (Drawing)	✓	✓
Drawing Recovery	✓	✓
DWF In/Out	✓	✓
Built-in PDF Printer	✓	✓
Built-in SVG Printer	✓	-
Export 150 Raster Formats	✓	✓
Export enggPaper	✓	-
ACIS In/out	✓	✓
Esri Shape files	✓	-
<b>Text &amp; Character</b>		
Full Unicode support	✓	✓
Multi-language character set	✓	✓
TrueType fonts	✓	✓
Spelling	✓	✓
Find & replace	✓	✓
MTEXT editor	✓	✓
<b>Commands</b>		
Industry standard AutoCAD commands	✓	✓
All command Line versions	✓	✓
AutoCAD 3D commands	✓	✓
Split commands and Pause	✓	✓
Preview for all commands	✓	✓
<b>Drawing Window Features</b>		
Grips + magnets	✓	✓
Tracker	✓	✓
Snap- and eSnap- from	✓	✓
3D Orbit	✓	✓
Shade mode	✓	✓
Material and Lights	✓	✓
Unlimited modelspace viewports	✓	✓
Lineweights	✓	✓
Gradients	✓	✓
Modelspace editing in paperspace viewport	✓	✓
Highlight	✓	✓
<b>Interface</b>		
User Profile manager	✓	✓
Dockable Properties toolbar	✓	✓
Edit multiple drawings (MDI)	✓	✓
Context sensitive menu	✓	✓
AutoCAD CUI menus and toolbars	✓	✓
Automatic matching to OS style	✓	✓
<b>3D Solid</b>		
ACIS viewing	✓	✓
Full ACIS modeling editing	✓	✓
Dynamic display for solid modification	✓	✓
<b>Layouts</b>		
Multiple layouts	✓	✓
Clipped viewports	✓	✓
<b>Other functionalities</b>		
Reactor	✓	✓
Dictionaries	✓	✓
Improved Associative editing	✓	✓
2-way Associative Dimensions	✓	✓
Enhanced Selection handling	✓	✓
Improved Audit command	✓	✓
Improved Display and Render engine	✓	✓
Double-Click Editing	✓	✓
Trim/Extend Dimensions	✓	✓
Complex Entity as Boundaries	✓	✓
Non-rectangular viewports	✓	✓
Table support	✓	✓
True colors	✓	✓
Explode Text	✓	✓
Spline and Ellipse convert to Polyline	✓	✓
Clean Screen switch	✓	✓
Unlimited Undo and Redo	✓	✓
ADT viewing and editing	✓	✓
Dynamic Blocks	✓	✓
XREF clipping	✓	✓
Image clipping	✓	✓
<b>Printing</b>		
CTB color table files	✓	✓
STB style table files	✓	✓
PC3 printer configuration files	✓	✓
PLOT command	✓	✓
<b>Programming</b>		
Script	✓	✓
LISP vl-, vlr-, via- and vlx- support	✓	✓
LISP encryption	✓	✓
ADS	✓	✓
DCL, DLG	✓	✓
Delphi	✓	-
COM API for all Database related classed	✓	✓
VSTA	✓	✓
Visual Basic for Applications (VBA)	✓	✓
Unicode C/C++ interface	✓	✓
Binary compatible to eCad 7 API	✓	-
.net (C#, VB.net)	✓	-
DRX (DwgDirect) support	✓	-
Custom entities	✓	✓
Legacy menu MNU & MNP file support	✓	-
Menu Diesel expressions	✓	✓
Modelling functions	✓	✓

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