

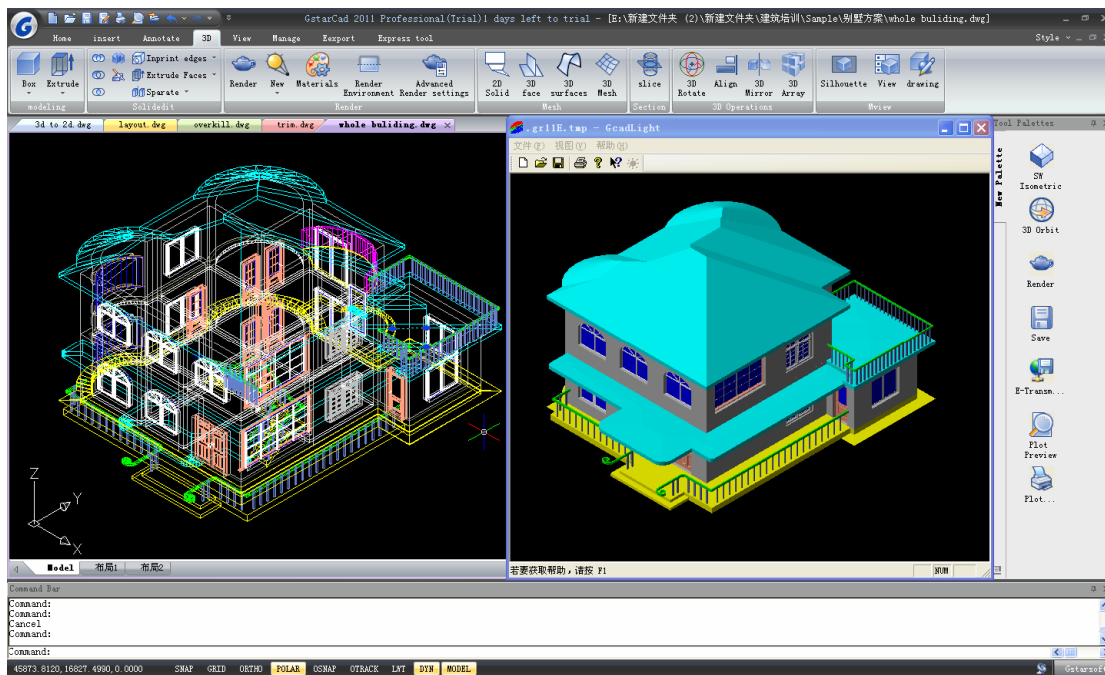
## What's New of GstarCAD2011

### 1. Overview

The main target of GstarCAD2011 is to significantly enhance the performance and usability of the software. Brand new Ribbon GUI is more attractive and the layout is more reasonable, giving user quicker access to functions. The performance of well used functions are greatly improved, drawing would be more accurate and smooth. Optimized dimension system provides with more useful and various dimension styles. The enhancement of 3D function leads a more convenient way for both definition of 3D coordinate system and transformation from 3D model to 2D drawings. Compatibility and stability of APIs GRX/VBA/Lisp/VLisp are remarkably enhanced. Other new functions and improvements such as *öOverkillö*, *öLayer Managementö*, *öDrawing Comparisonö* and *öSingle Line Text Editorö* are also implemented in GstarCAD2011.

### 2. New GUI

GstarCAD2011 adopts Ribbon GUI which is more stylish and attractive. Functional organizations are more effective and reasonable: not only providing more drawing display area, but also helping operator to easily access to important and well used functions and commands via customizable layout.



### 3. New Functions

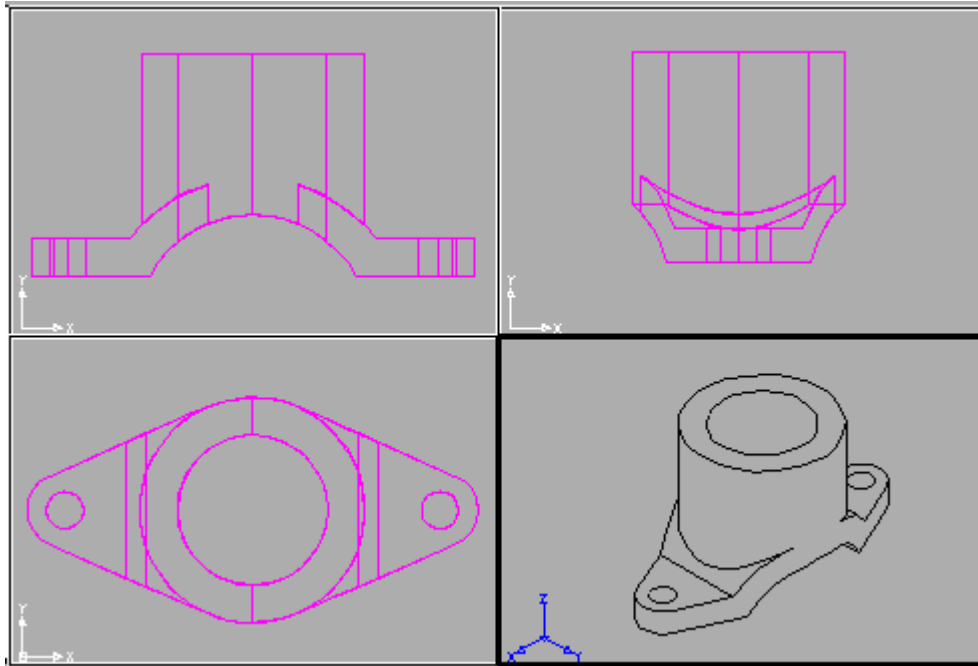
## 1) SOLPROF, SOLVIEW, SOLDRAW

Automatic transformation from 3D Model to 2D Drawings

**SOLPROF:** Create 2D profile images of 3D solids for display in a layout viewport.

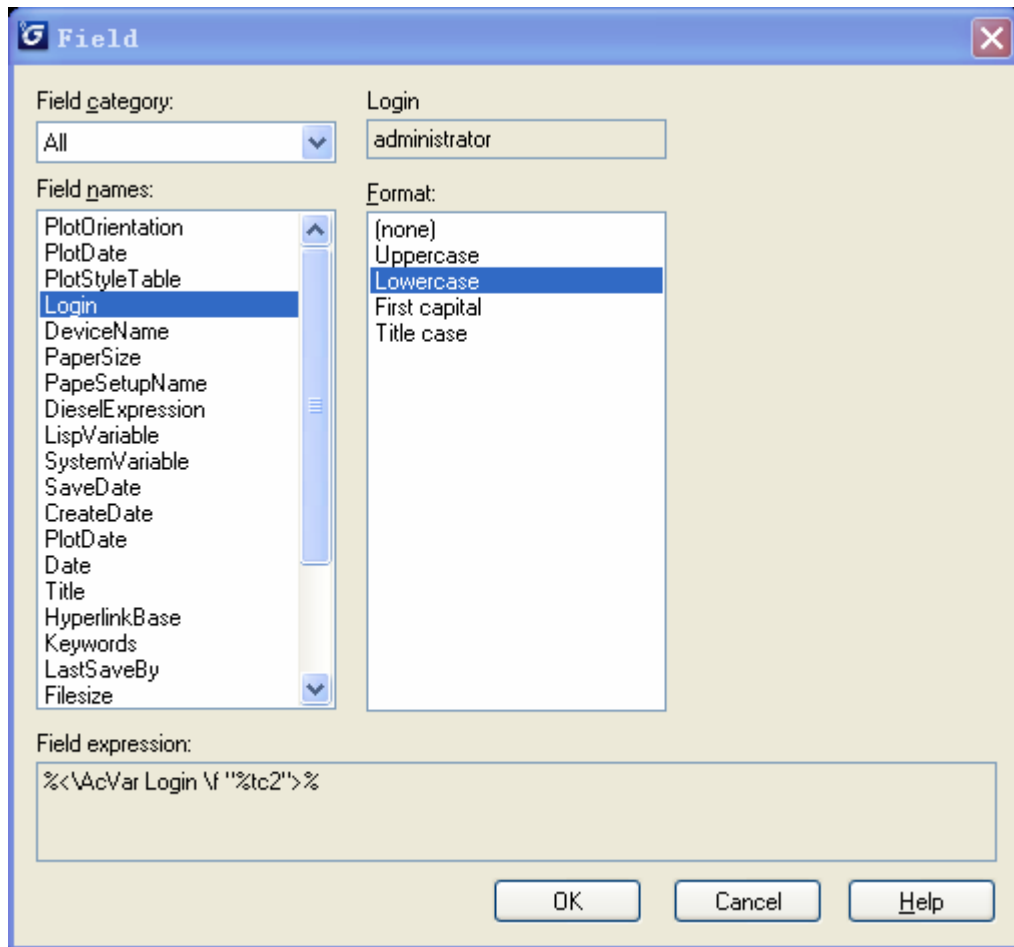
**SOLVIEW:** Create orthographic views, layers, and layout viewports automatically for 3D solids.

**SOLDRAW:** Generate profiles and sections in layout viewports created with SOLVIEW.



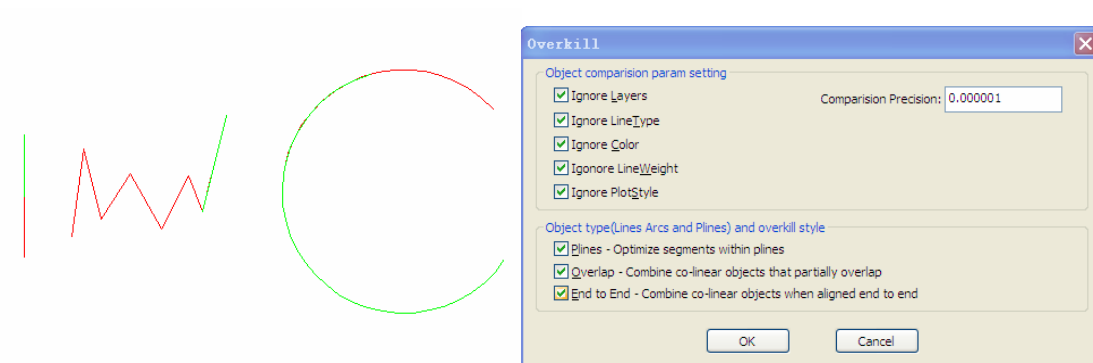
## 2) FIELD

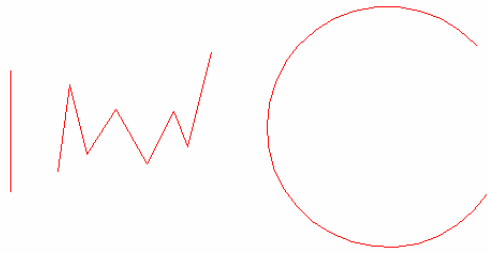
Create a multiline text object with a field that can be updated automatically as the field value changes. Field including: Diesel expression, print information, documents information, time and date, hyperlink and other types.



### 3) OVERKILL

Using command OVERKILL quickly removes or merges overlapping lines and arcs automatically, eliminating unnecessary objects and cleaning drawings.

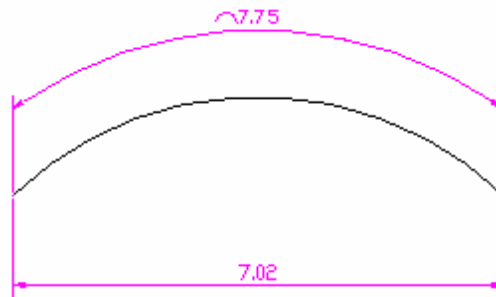




#### 4) DIMARC

Arc length dimensions measure the distance along an arc or polyline arc segment.

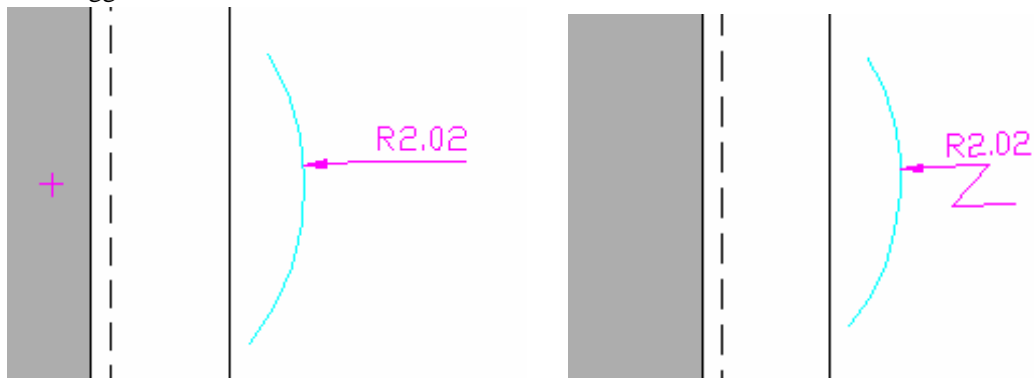
Typical uses of arc length dimensions include measuring the travel distance around a cam or indicating the length of a cable.



#### 5) DIMJOGGED

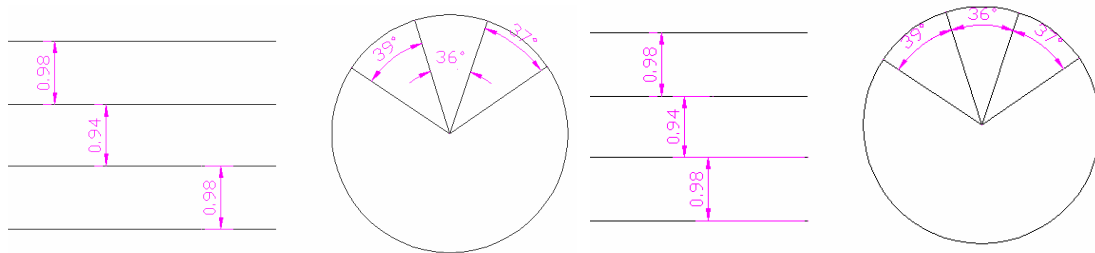
Create jogged radius dimensions when the center of an arc or circle is located off the layout and is not able to be displayed in its real location. The origin point of the dimension can be specified at a more convenient location called the center location override.

Jogged radius dimensions are also called foreshortened radius dimensions.



#### 6) DIMSPACE

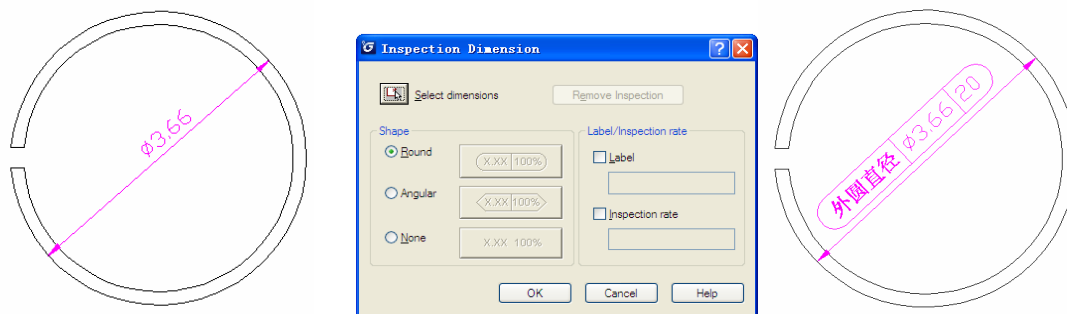
Adjust the spacing between linear dimensions or angular dimensions. With this function it is possible to automatically adjust existing parallel linear and angular dimensions in a drawing, keeping equally spaced or aligned at the dimension line.



## 7) DIMINSPECT

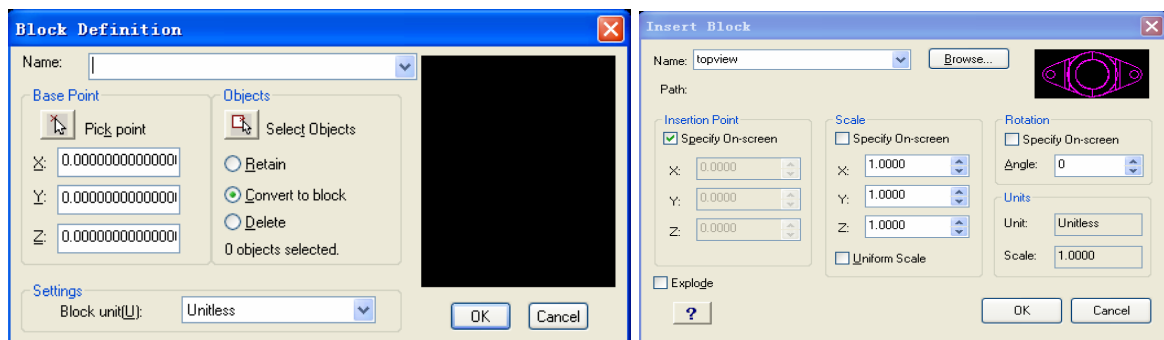
Add or remove inspection information for a selected dimension.

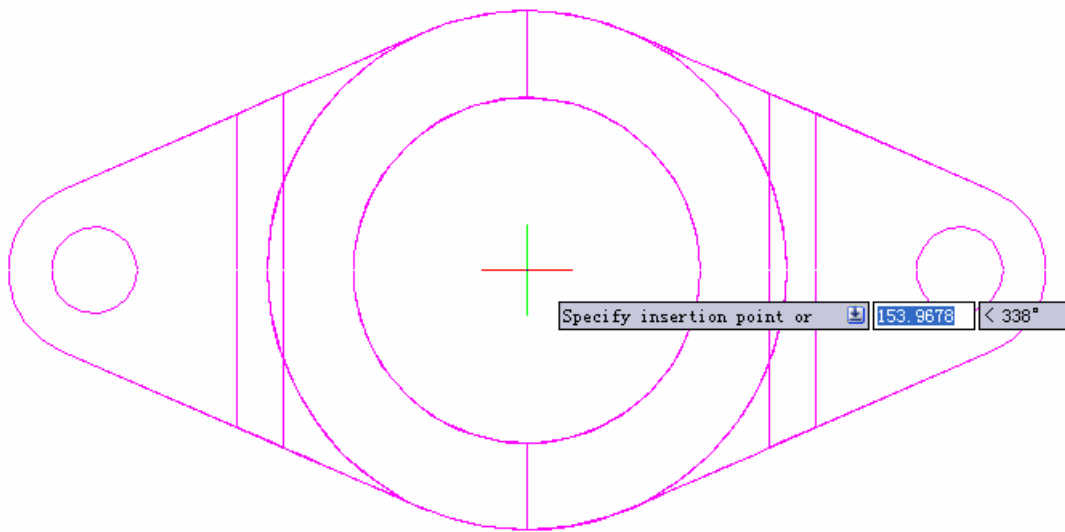
Inspection dimension allows to effectively communicate how frequently manufactured parts should be checked to ensure that the dimension value and tolerances of the parts are within the specified range.



## 8) Block Insert Scale

This function controls both the block and the measurement unit in the current drawing. If an inserted block or drawing is made in different unit it will be automatically adjusted to current unit system by scaling accordingly.





Command: INSERT

Specify insertion point or [Basepoint/Scale/X/Y/Z/Rotate]:

137.9148, -56.3831, 0.0000

SNAP

GRID

ORTHO

**POLAR**

OSNAP

OTRACK

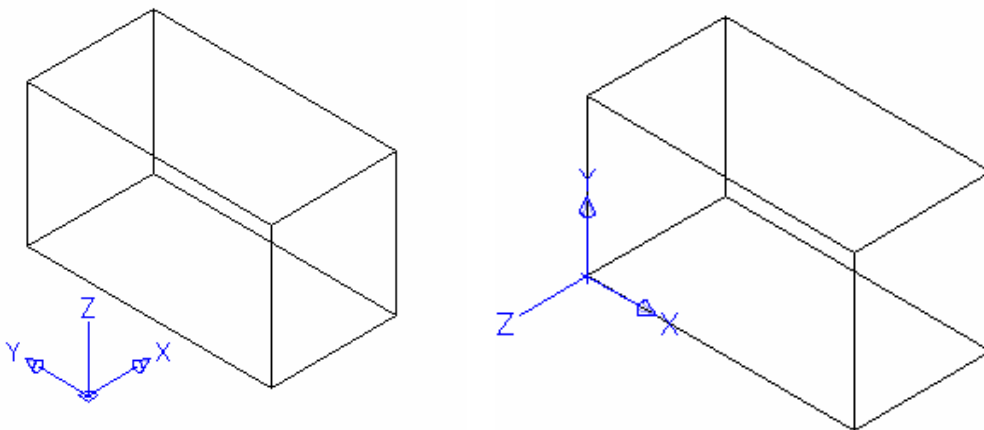
LWT

**DYN**

**MODEL**

## 9) UCS/Face

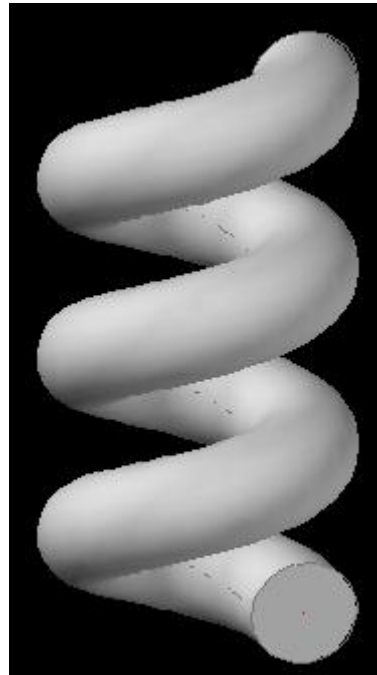
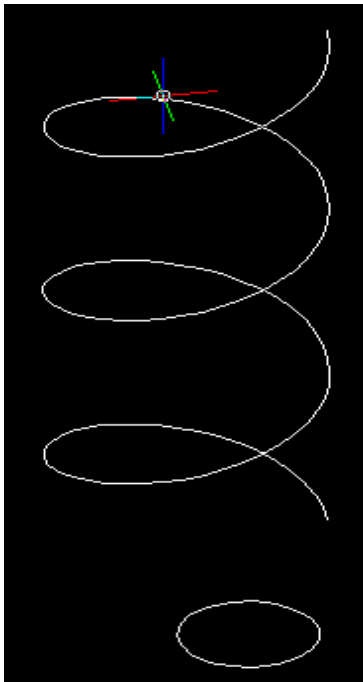
Align the user coordinate system to a face on 3D model. UCS will be defined by the face of model in order to make it easy for Shelling and Location Tracking



## 10) 3D Modeling: SWEEP

Create 3D solid or surface by sweeping a 2D object along a driving path.

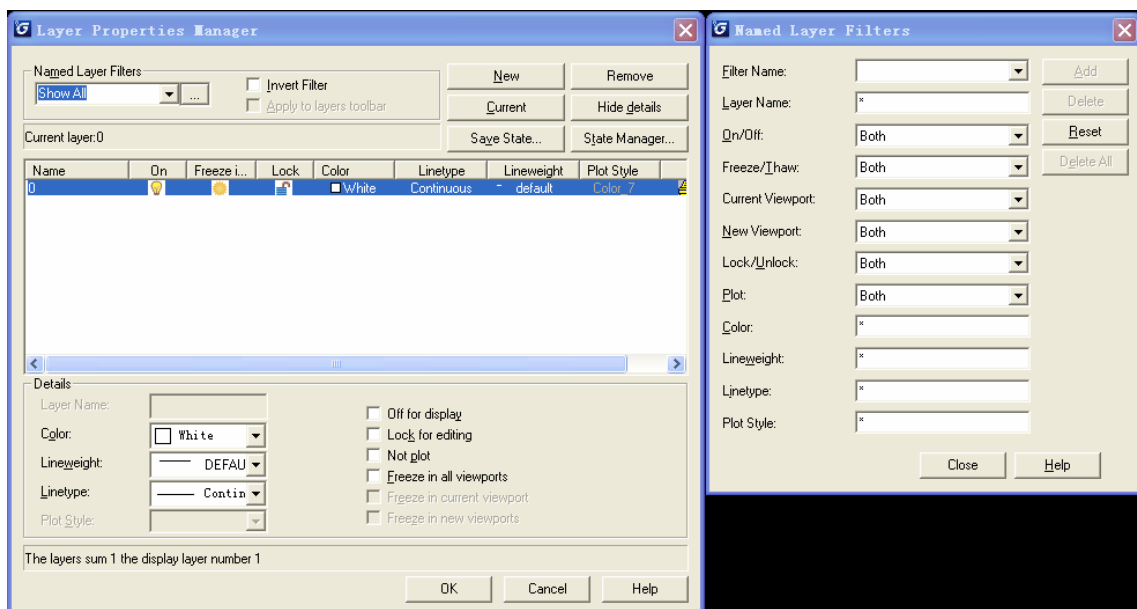
With the SWEEP command, it is possible to create a new solid or surface by sweeping an open or closed planar curve (profile) along an open or closed 2D or 3D driving path. SWEEP generates solid or surface in the shape of the specified profile along the specified driving path.

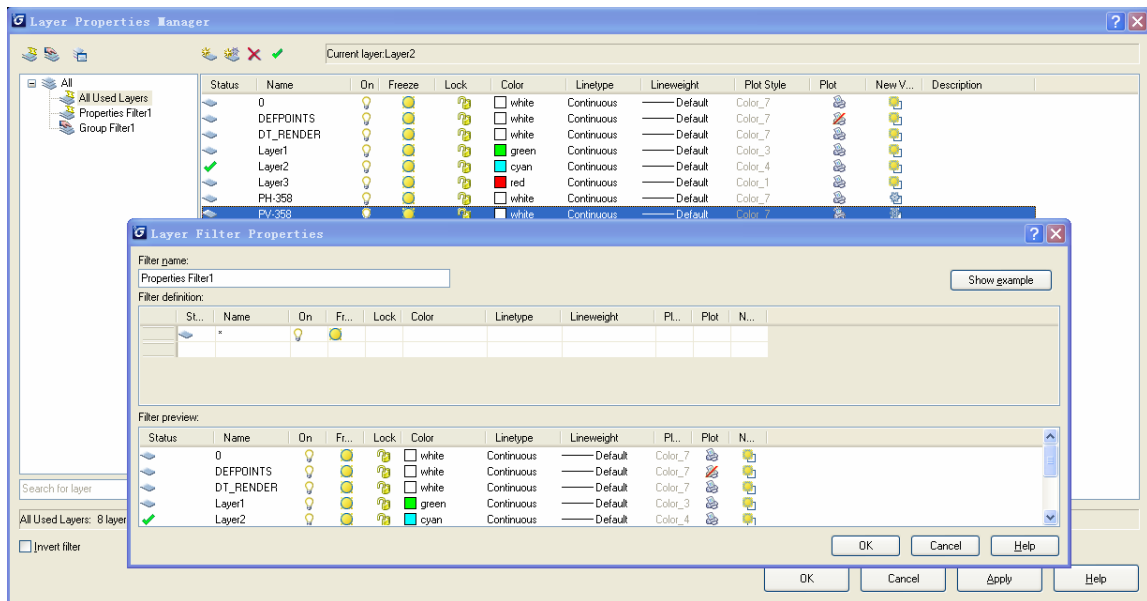


## 4. Function Improvements

### 1) Layer Management

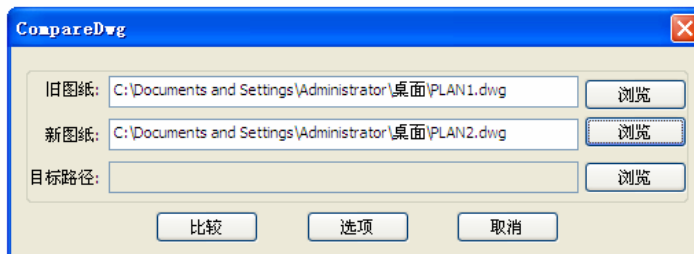
Improved layer management brings more friendly GUI and more rich function hierarchy list of filter, adding, erase, rename and layer properties changing. All these commands are easier to operate.

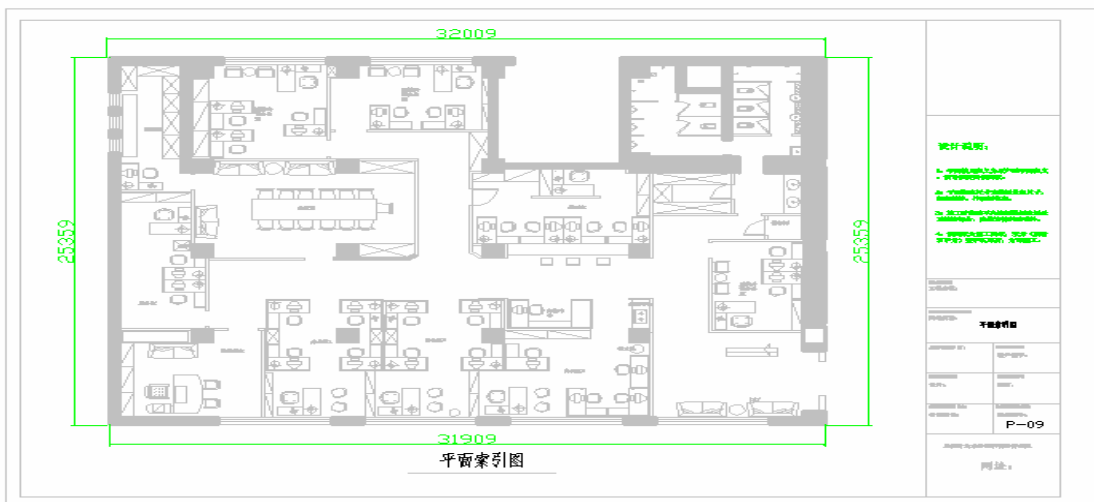




## 2) New Drawing Compare

Based on the GRX technology, the newly developed tool named CMP is more accurate and stable. The new version provides comparison to customized object and nested block, multiline text, multiline dimension, and the proceeding of complex solid would be more comprehensive. With CMP it is necessary to start GstarCAD before making comparison. By clicking on two drawing files, the function automatically starts GstarCAD before making comparison.



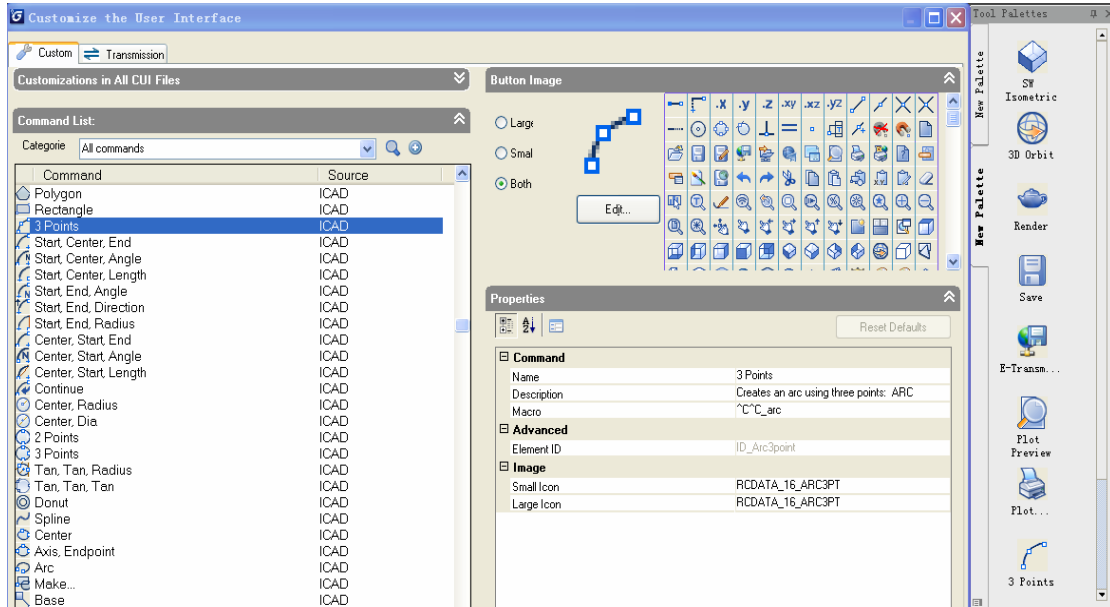


### 3) Single-line Text In-place Editor

More convenient Single-line Text Editor ensure what you see is what you get.

### 4) Tool Palettes

New "Customize User Interface "(CUI) editor allows drag&drop of commands (including user defined commands) from command list to Tool Palettes.



## 5) LISP/VLISP Development Interface

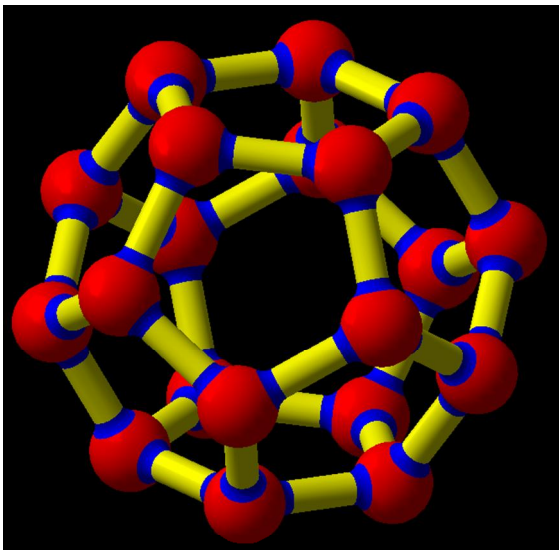
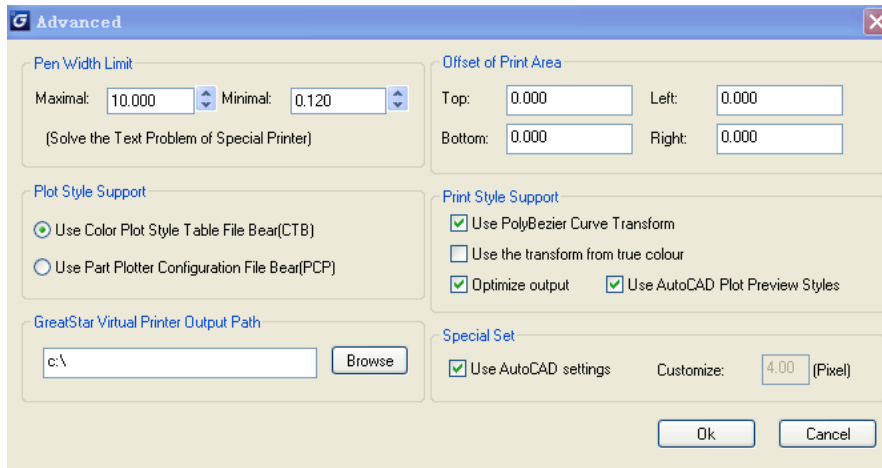
Further strengthening for the compatibility and reliability of Lisp/VLisp takes in-depth and all-sided system text for VLisp interface. The new functions and function optimization of VLisp include:

```
vl-remove-if  
vl-remove-if-not  
vl-member-if-not  
vl-member-if  
vl-sort  
vl-some  
vl-every  
vlax-make-variant  
vlax-variant-change-type  
vlax-make-safearray  
vl-some  
vl-every  
vl-sort  
vl-sort-i  
lsh  
vlax-read-enable-p  
vlax-write-enabled-p  
write-line, vlax-put-property  
vlax-get-property
```

vl-symbol-name

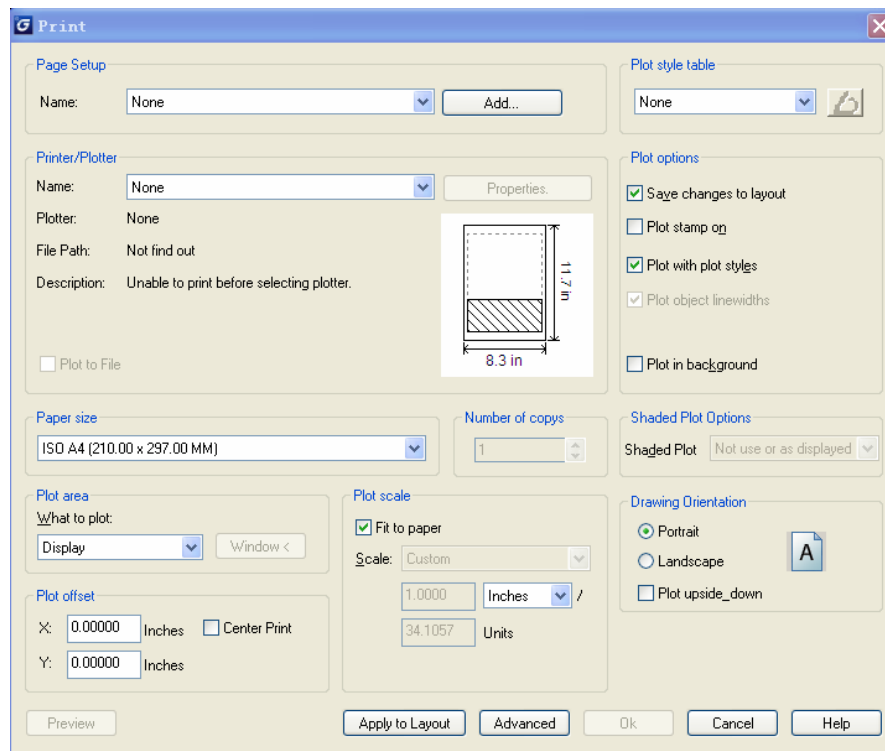
## 6) Shade Plot in Layout Space

With shaded plotting options, it is possible to select whether to plot a set of shaded objects, using As Displayed, Wireframe, Hidden, or Rendered options. It is also able to show 3D design in presentation through shading.



## 7) Plot

Improve the compatibility of plot configuration, such as paper orientation, plot stamp and so on.



## 5. Improvement of Operational Performance

The overall operational Performance of GstarCAD2011 is further improved based on GRX technology. Processing speed of well used functions and commands is significantly improved as well. The software is faster and more easy to use compared to GstarCAD2010, giving users great gain in drafting and drawing speed and design productivity.

### 1) Object Selection

It is possible to select objects by a frame round or select all in a fast way.

### 2) Object Snap

Accuracy and fluency of object snap increased substantially.

### 3) Performance of Layout Operations

The speed of zoom and pan in layout space increase a lot. Other operations related to layout space are greatly improved as well.

### 4) Complex Hatch

The processing speed of command RENGEM and BHATCH increased by tens of times.

### 5) Trim



Instantly process of TRIM is possible in GstarCAD2011.