

Note: EasyCad is based on the AutoCad of Autodesk. Since this program is continuously upgraded, some of this document may be changed without notice

The command of EasyCAD is the same as AutoCAD's, and its specification is as follow.

Section	Supporting File Format
Readable File	Dxf
Readable Command	ARC, CIRCLE, ELLIPSE, INSERT, INSERT, LWPOLYLINE, POINT, POLYLINE,RAY, SPLINE
Edit Command	Redo, Undo, Explode, Offset, Zoom

Non-activated Icons on the 'Side Bar' menu don't support their full function yet.

EasyCAD commands can be readable in English Alphabetic and Numerical codes, and are not sensitive for the capital and lowercase letters.

Since the software is upgraded without notice, make sure to have interest in upgraded EasyCAD always.

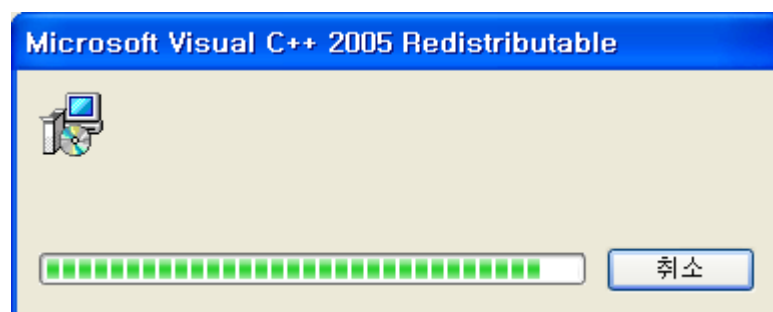
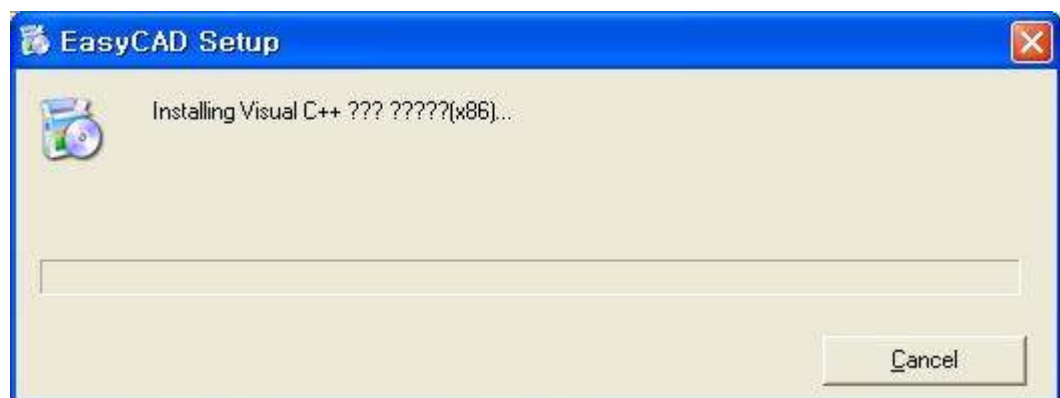
1.Installing EasyCAD

In the EasyCAD install CD the following folders and files are included.
Donetfx folder, vcredist_x86 folder, EasyCAD_setup.msi, setup.exe

- 1). Clicking on Setup.exe will show EasyCAD Setup dialog box as below.

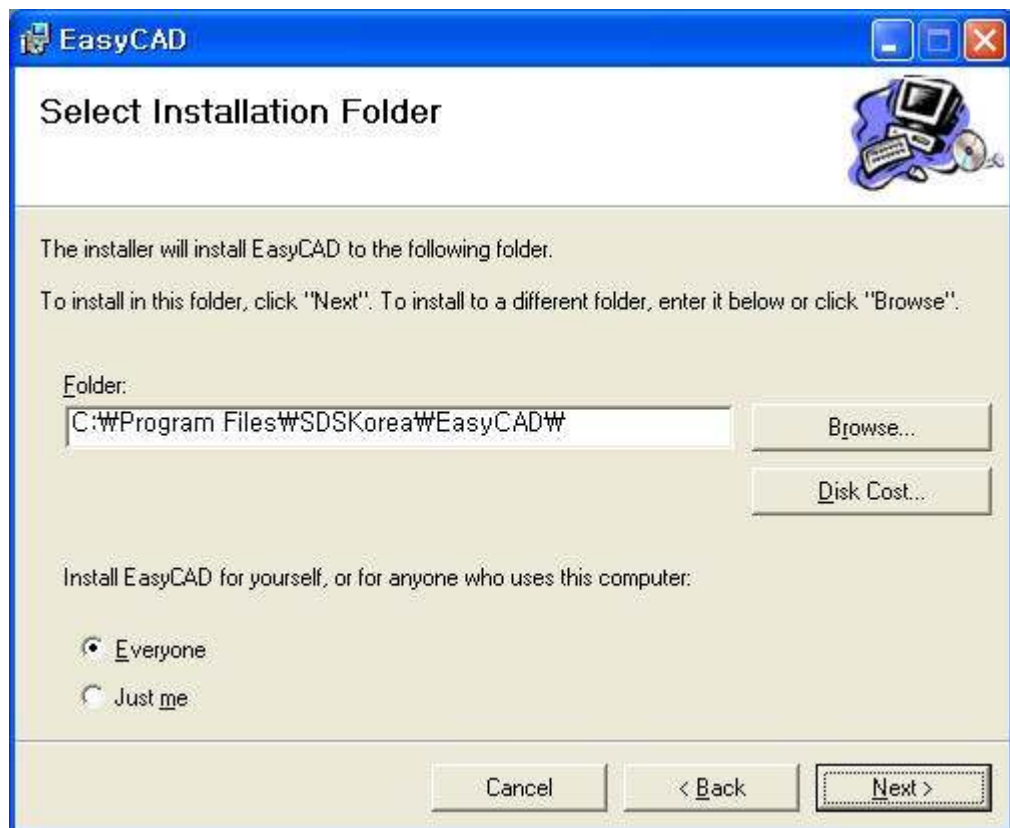


- 2). Click 'Install' button to go to the next step.

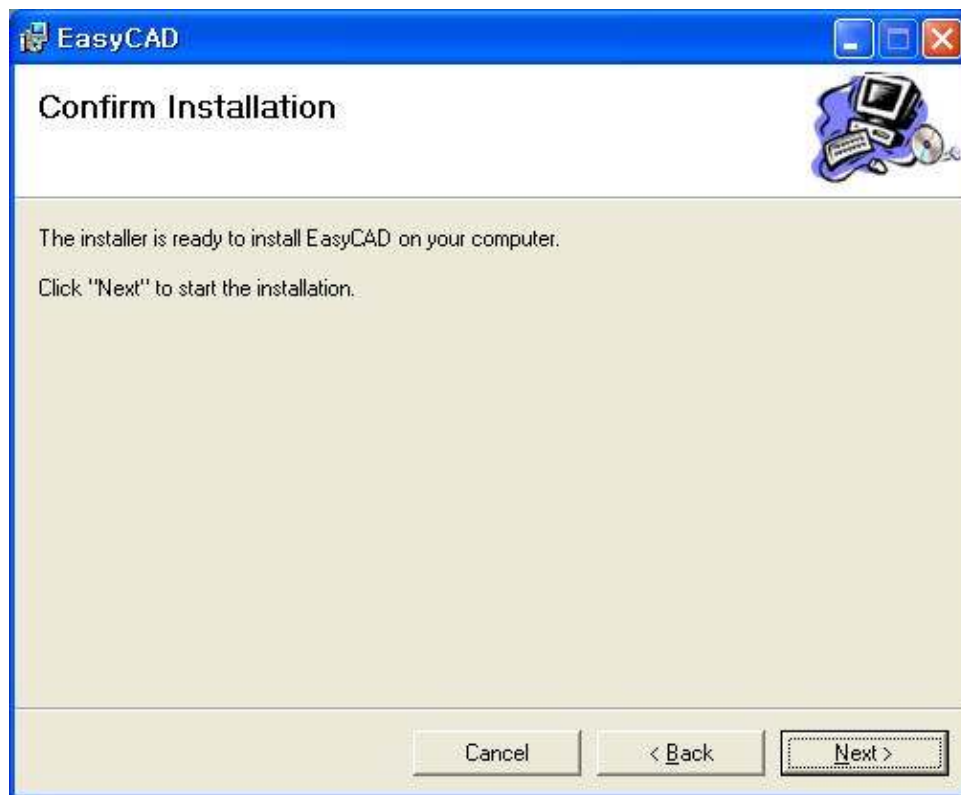




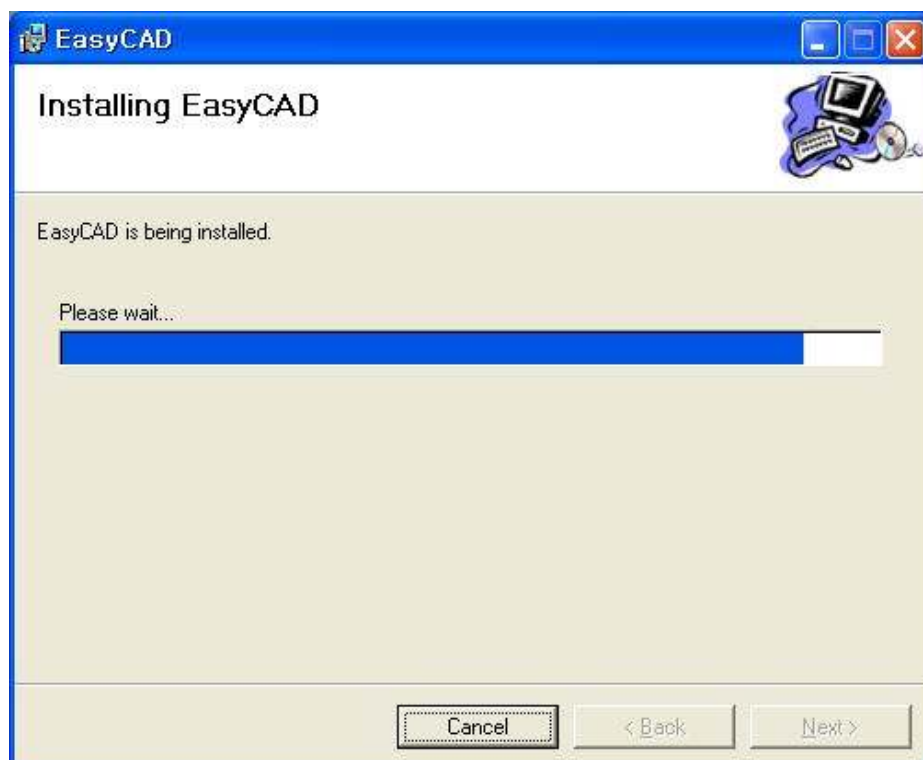
3). Click 'Next' button.



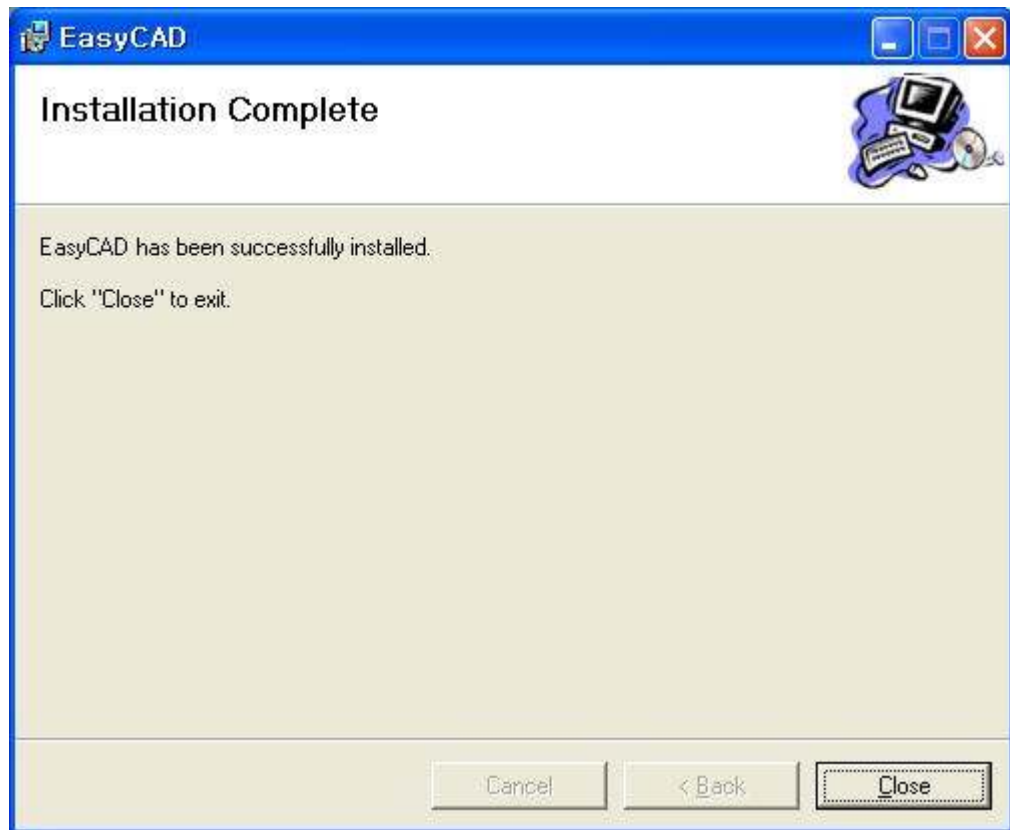
- 4). Clicking 'Next' will install the program in the default folder, [C:\Program Files\SDSKorea\EasyCAD\](#). To install different folder, enter the folder name or click 'Browse' to choose it you want, and then click 'Next'.



- 5). Now the installer is ready to install EasyCad on your computer. The Confirm Installation dialog box will ask you to cancel or next. Click 'Next'.



6). EasyCAD is being installed. Please wait...

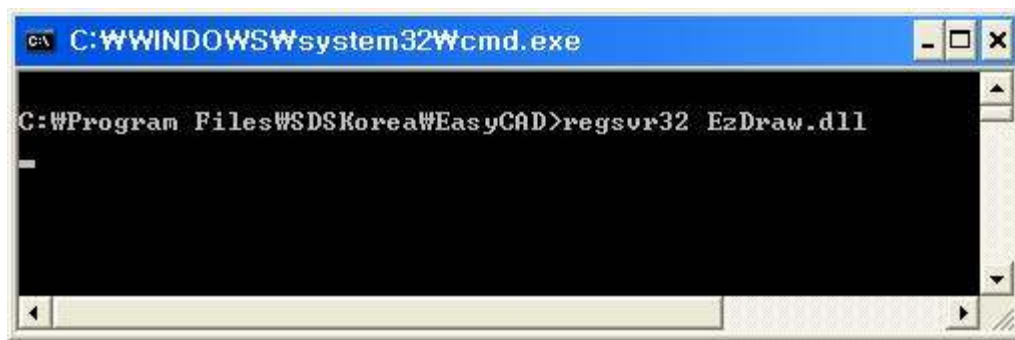


7). Click 'Close' to exit when EasyCAD has been successfully installed.

이름	크기
Icon	
EasyCAD.exe	836KB
EasyCAD_Regist.bat	1KB
EasyCAD_UnRegist.bat	1KB
EzDraw.dll	72KB
EzDxf.dll	196KB
EzNC.dll	25KB
glut32.dll	232KB
ToolkitPro1112vc80.dll	5,572KB

8). 'EasyCAD_Regist.bat' file can be seen in the folder you've chosen in step 3). Double click on the file to register the EasyCAD on the **Windows**. If the folder is not changed, EasyCAD will be installed the default fault, C:\Program Files\SDSKorea\EasyCAD\.

9). Executing EasyCAD_Regist.bat will bring the below screen, then the registration is in process.



10). If the registration is finished successfully, RegSvr32 dialog box will be shown as above. If not shown or the other dialog box appears, please contact SDS Korea..



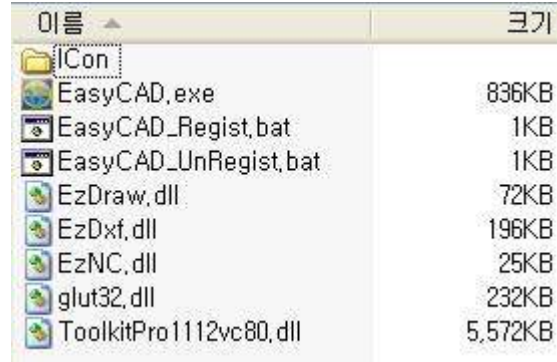
11). If the shortcut icon of EasyCAD is created on the Desktop.



12). All the procedure of the installation is completed.

2. Uninstalling EasyCAD

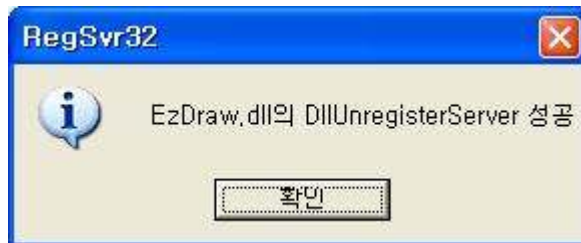
1). To unregister the EasyCAD registration open the installed folder, then, 'EasyCAD_UnRegist.bat' file can be seen. Executing this file will remove the registration of EasyCAD.



이름	크기
ICon	
EasyCAD.exe	836KB
EasyCAD_Regist.bat	1KB
EasyCAD_UnRegist.bat	1KB
EzDraw.dll	72KB
EzDxf.dll	196KB
EzNC.dll	25KB
glut32.dll	232KB
ToolkitPro1112vc80.dll	5,572KB



2). If the dialog box pops up as below, the unregistration is finished successfully.

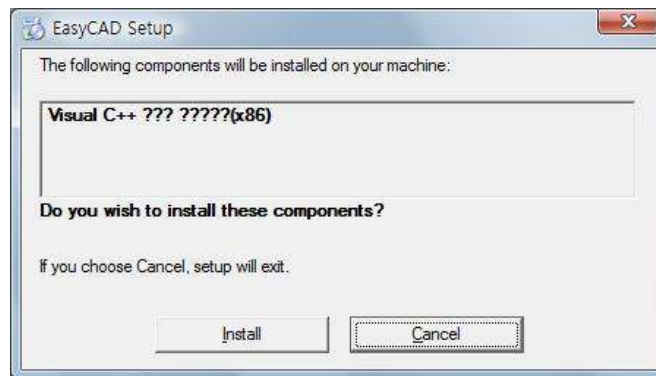


3). Remove EasyCAD as following steps

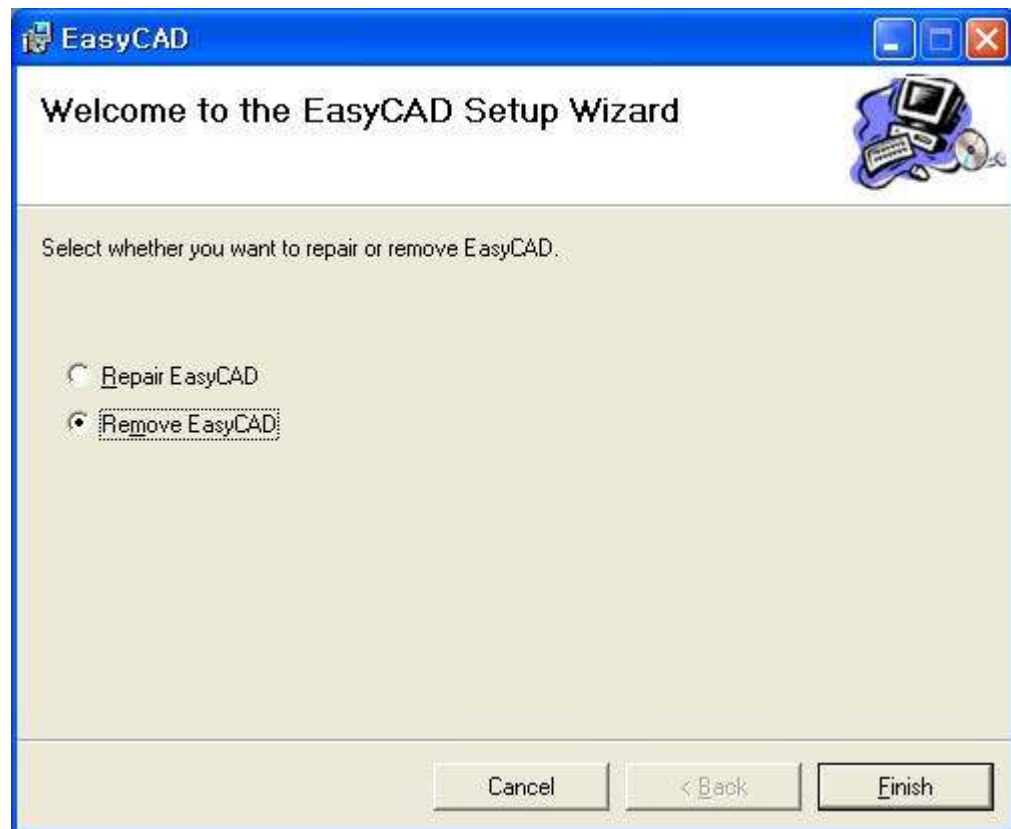
Click 'Start' → Add/Remove Program → Remove EasyCAD

4). If you want to remove EasyCAD with the installer 'EasyCAD Setup', please follow the next instruction.

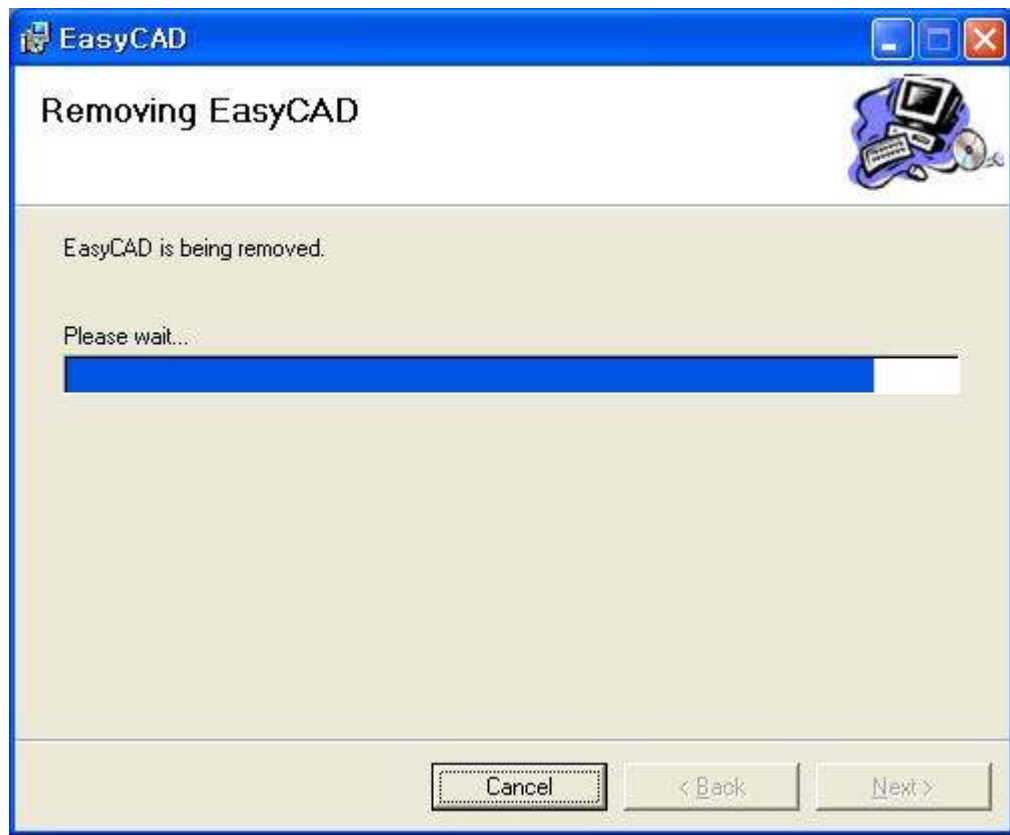
a. After step1-step2 above, run the EasyCAD setup file, 'Setup.exe'. Then, the following window will appear.



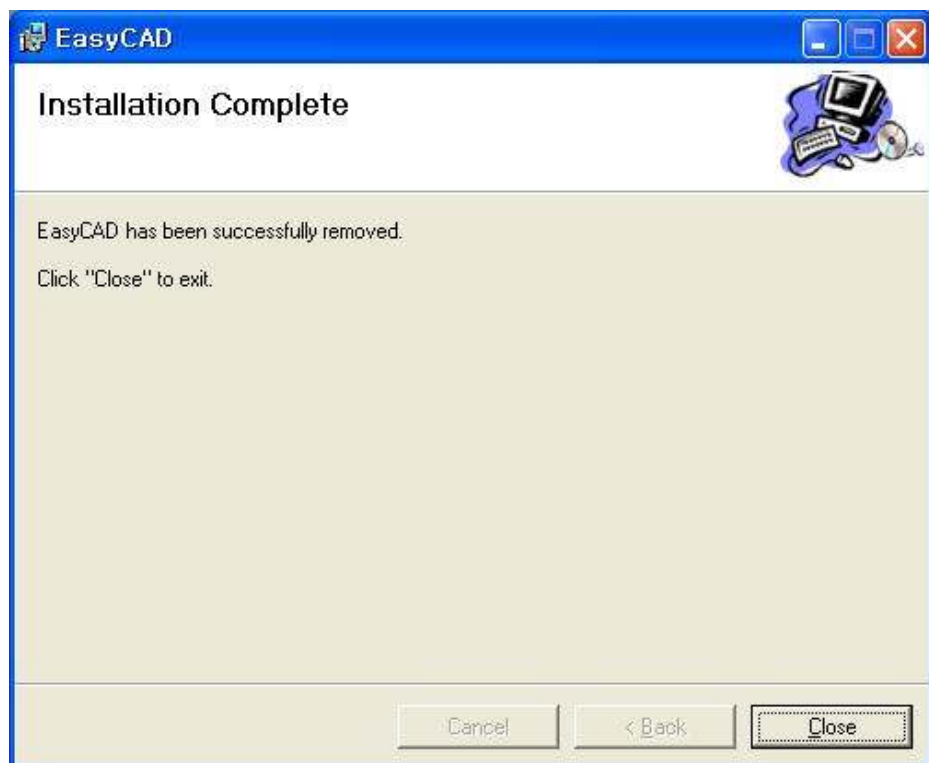
- b. If the dialog box is shown as above, click 'Install'.
- c. Select whether you want to repair or remove EasyCAD, and then click 'Finish'.



d. Now EasyCAD is being removed.

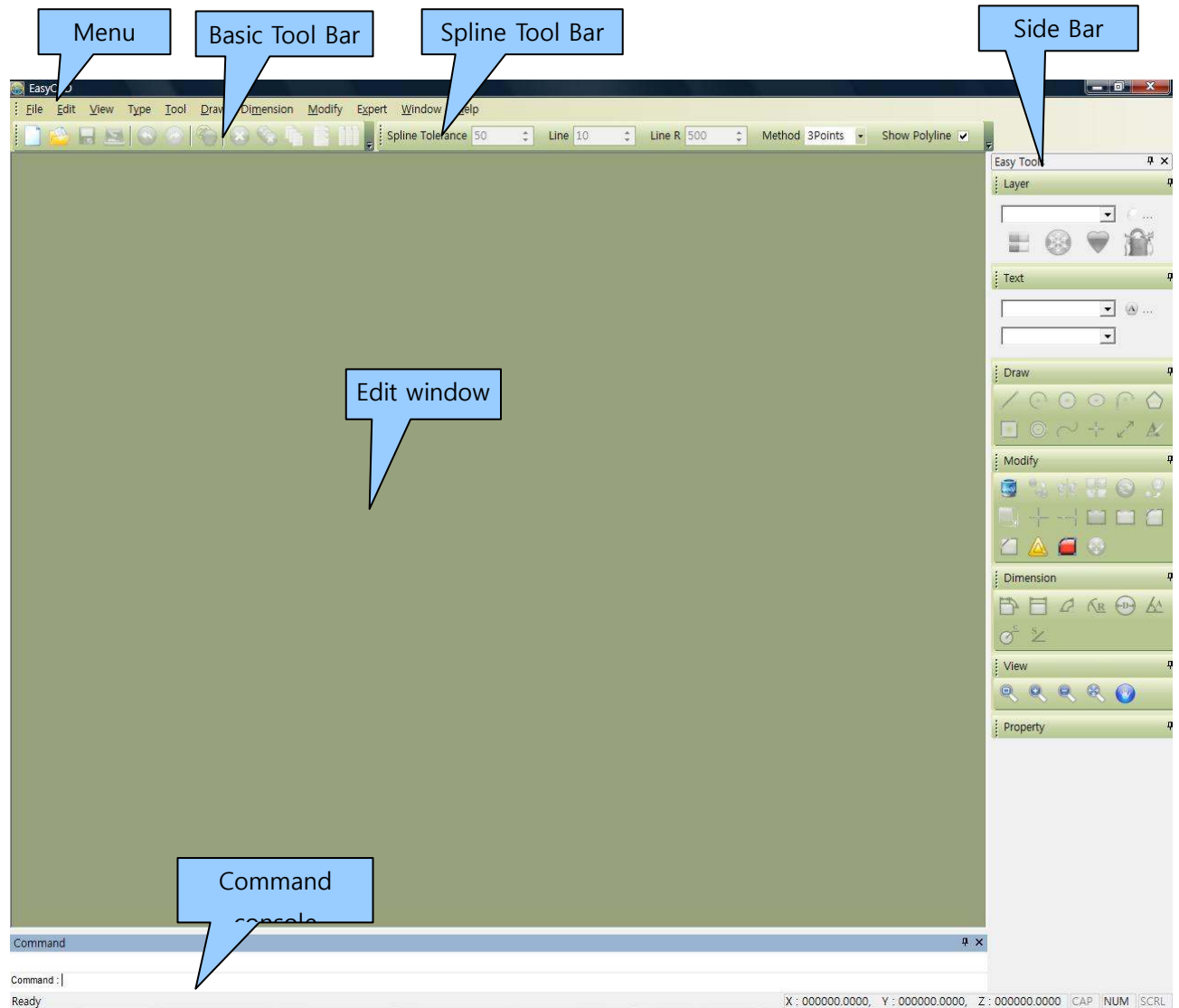


d. If the message says “EasyCAD has been successfully removed”, click ‘Close’ to exit.



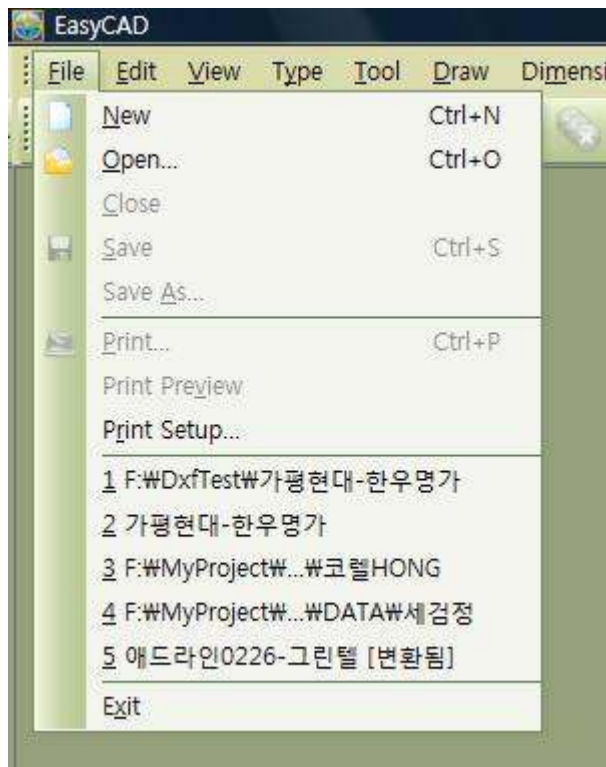
3.Using EasyCAD

If you click EasyCAD.exe or click on the shortcut icon of EasyCAD, you can see the following main screen

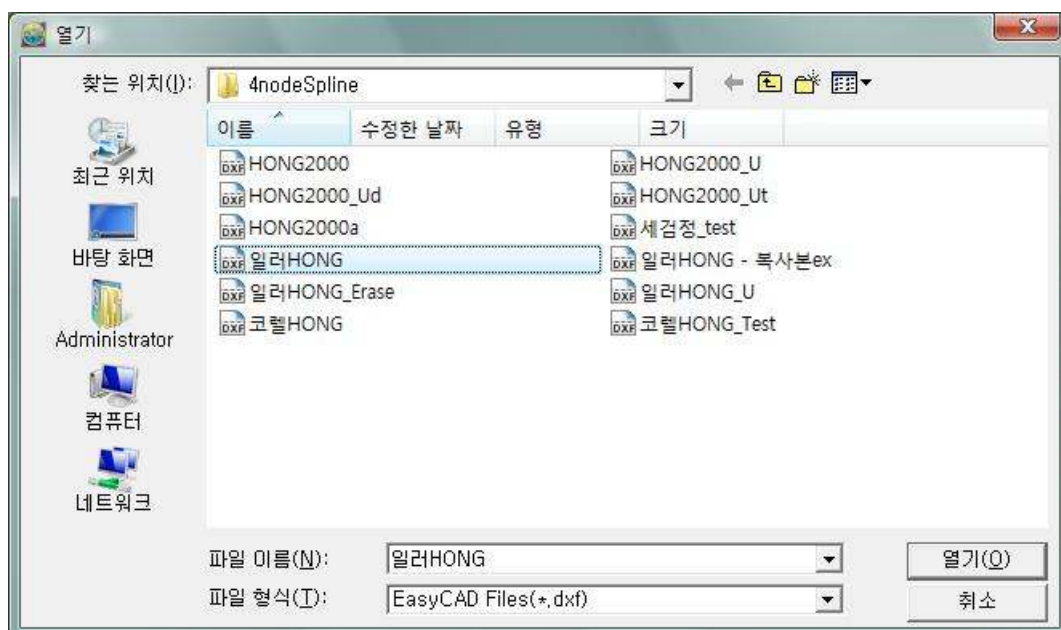


3.1 Opening drawing file

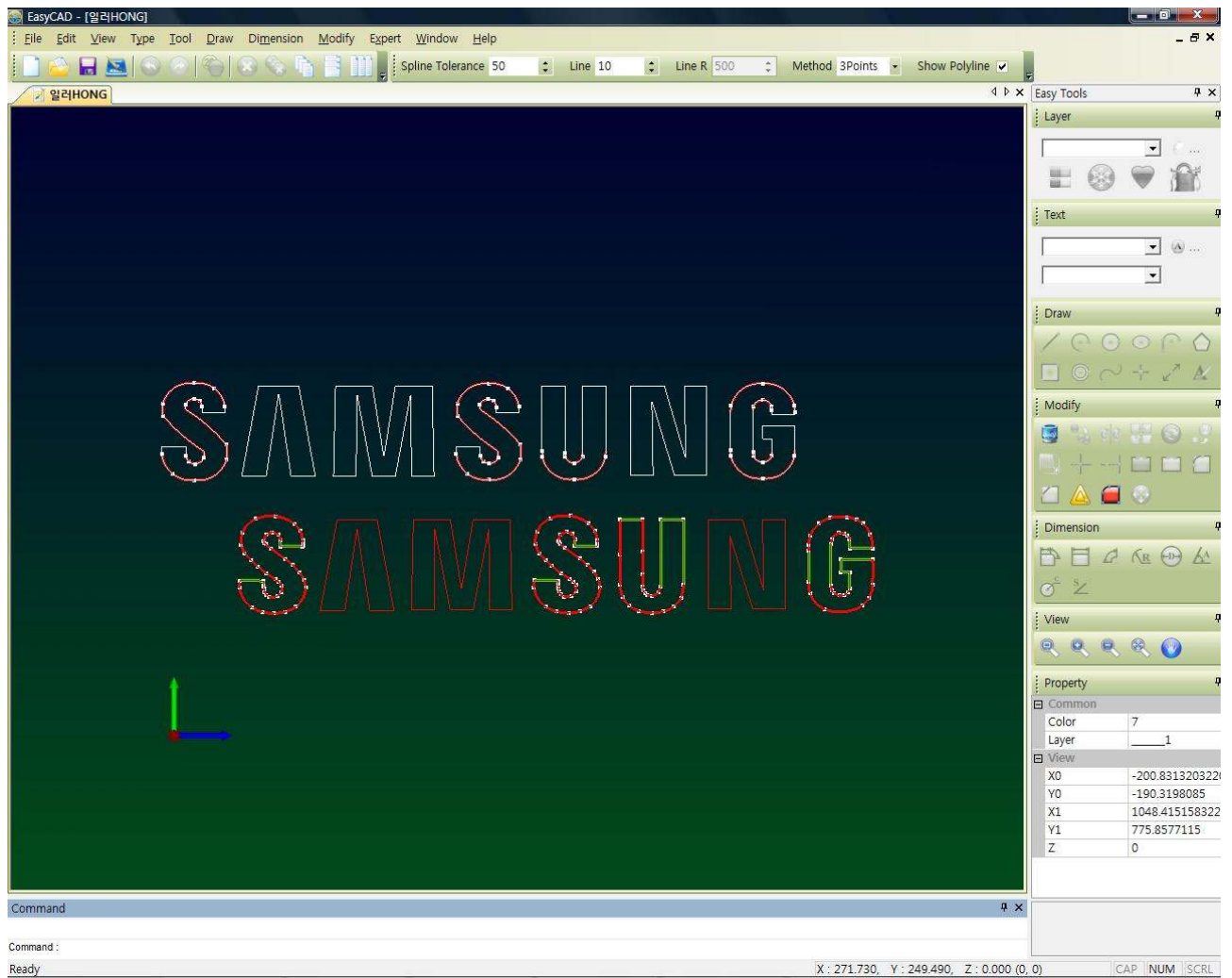
Clicking 'File' on the menu bar will pop up the pull-down menu as below



If you click 'File Open', the file open dialog box will appear as below. Then, choose the file you want to edit and click 'Open'.



You can see the drawing on the edit window when you open the file you clicked



3.2. Window



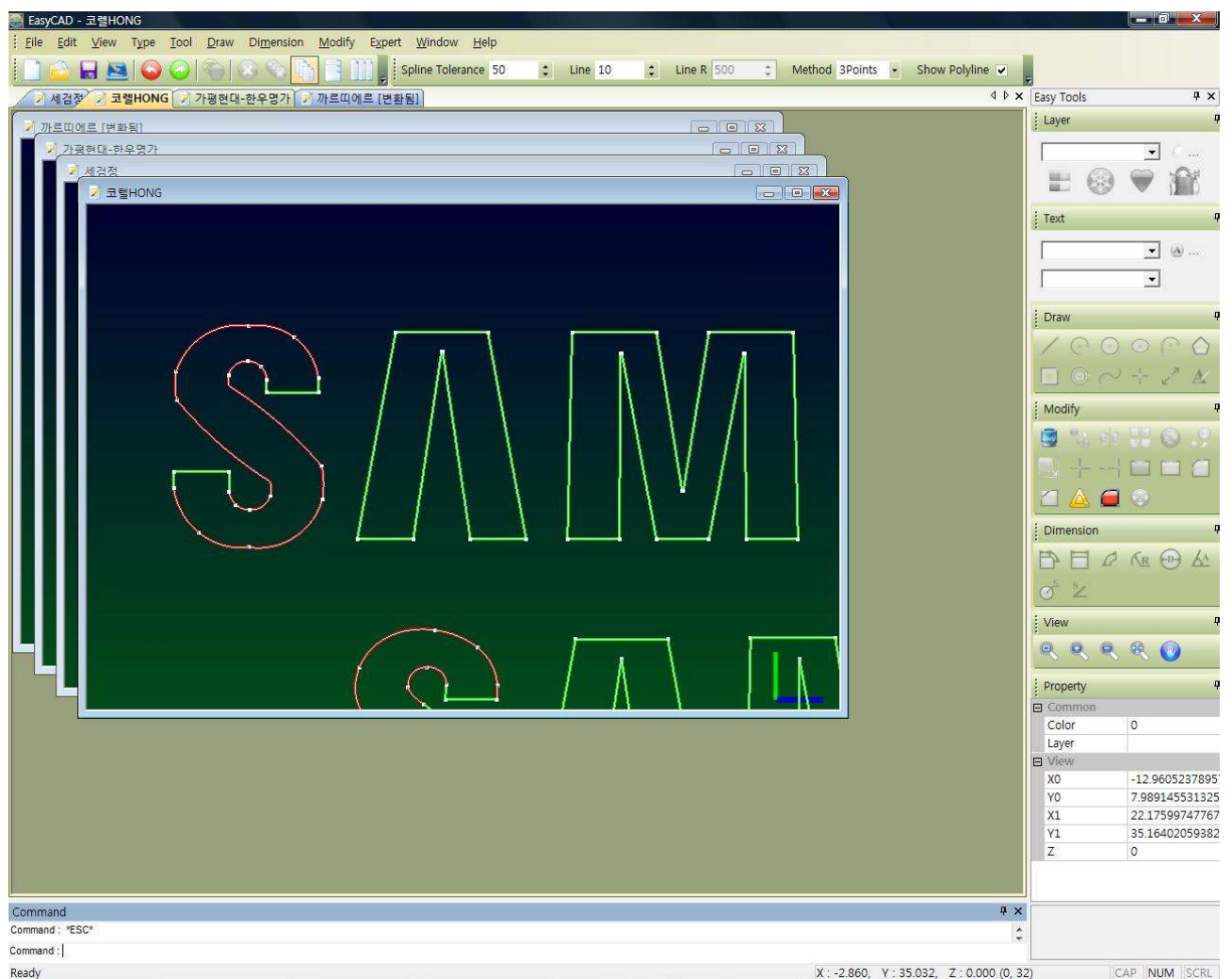
EasyCAD 는 동시에 여러 도면을 편집할 수 있습니다. 여러 개의 도면을 동시에 보고자 할 때 에는 “기본 툴 바” 의 다음 세 개의 아이콘을 클릭하면 볼 수 있습니다.

You can edit multiple drawings at the same time in EasyCAD. Window provides three different way to layout each drawing.



a. Cascade

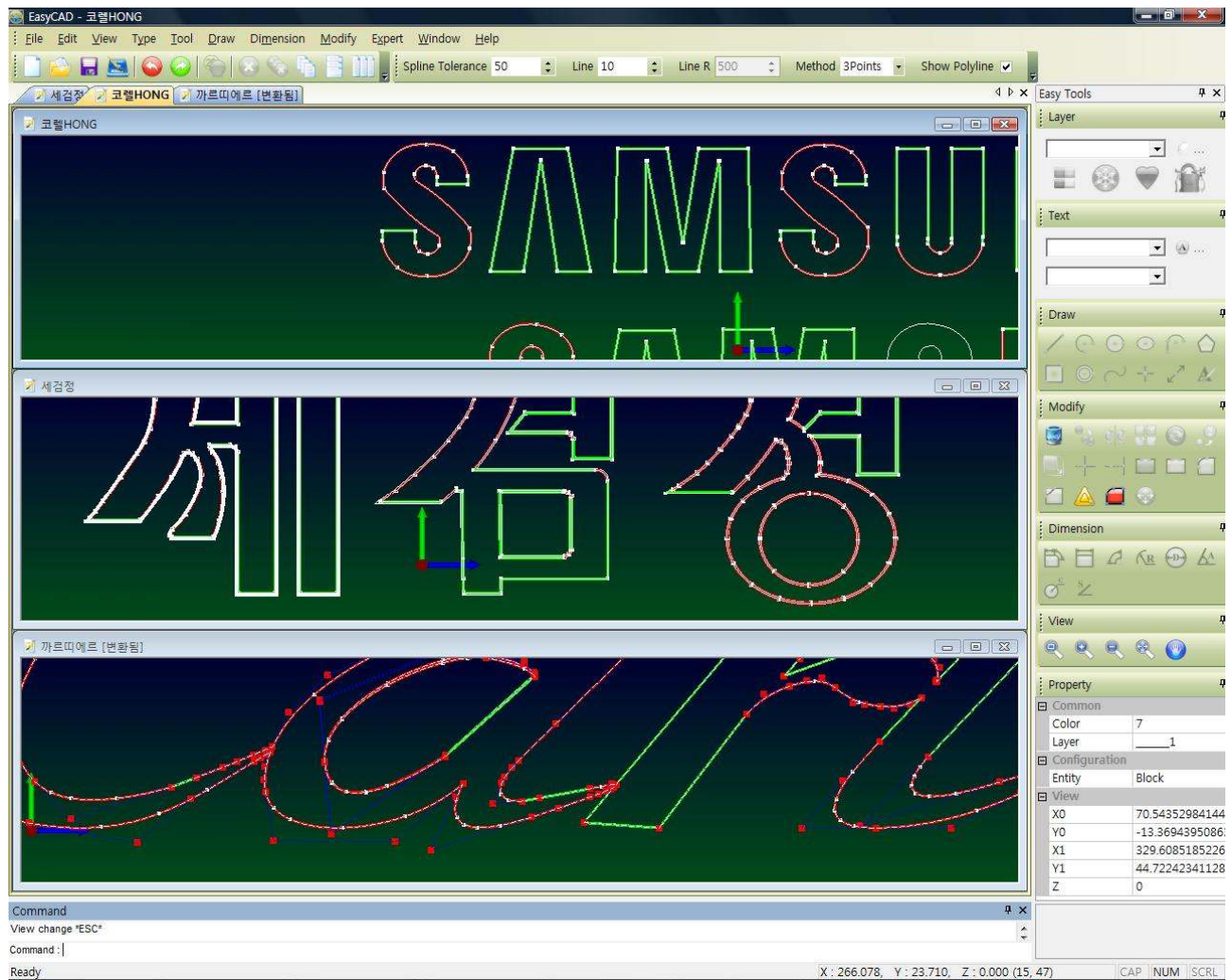
Clicking this icon will show the drawings in cascade as below figure.





b. Vertical

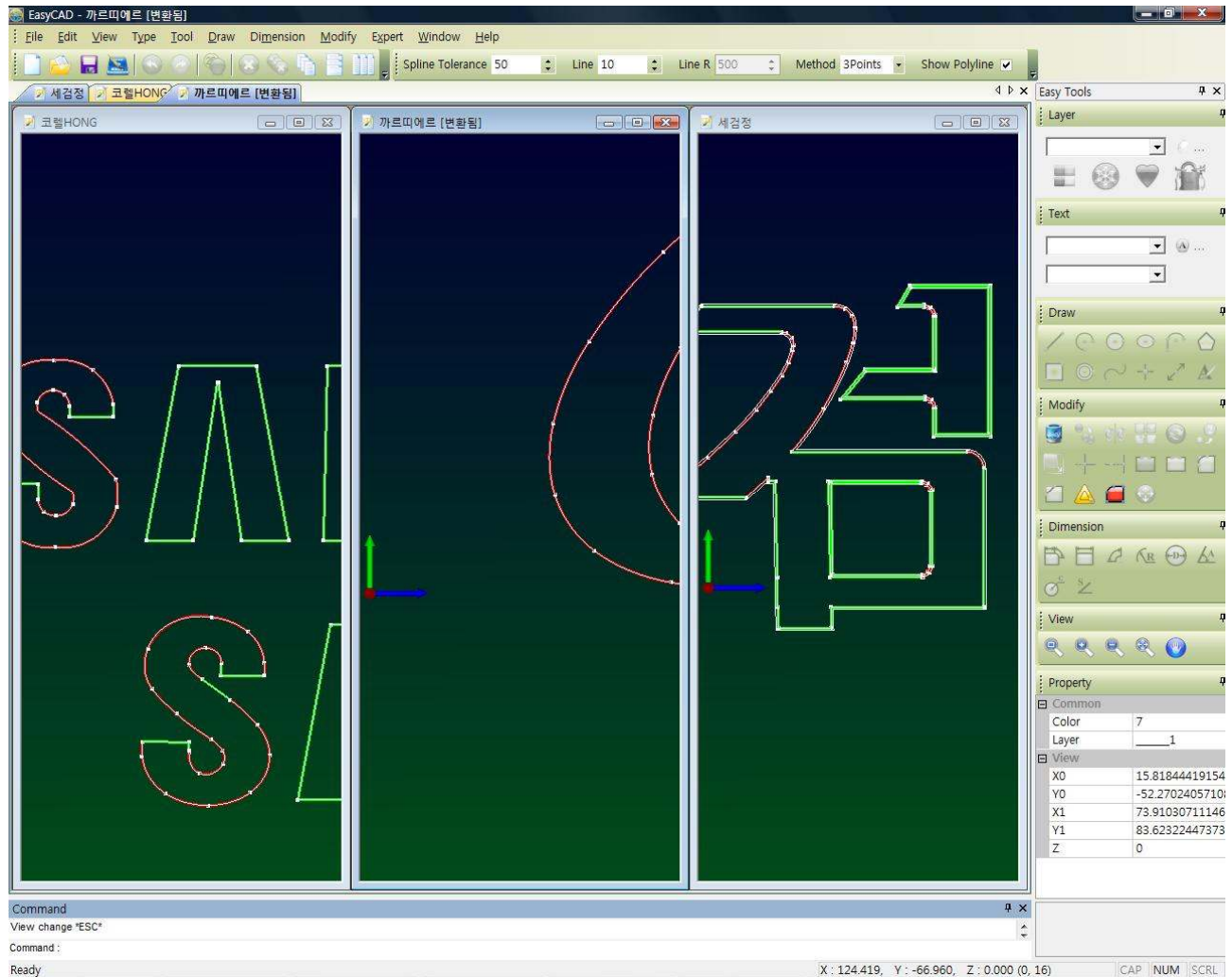
Clicking this icon will show the drawings divided in vertical as below figure





c. Horizontal

Clicking this icon will show the drawings divided in horizontal as below figure



3.3 View



View menu on the side bar includes the following icons.

a. Zoom Window



Zoom Window will let you zoom in on a specific area by drawing a window around the geometry you would like to view close up.

b. Zoom In



When you select Zoom In and then click on the drawing area of your screen, the location of the click will become the center of the screen, and the design will appear to be closer.

c. Zoom Out



When you Select Zoom Out and then click on the drawing area of your screen, the location of the click will become the center of the screen, and the design will appear to be farther away.

d. Zoom Fit



When you click this icon or double-click the middle button, this will redraw your CAD design to fully fit on the screen.

e. Pan Real



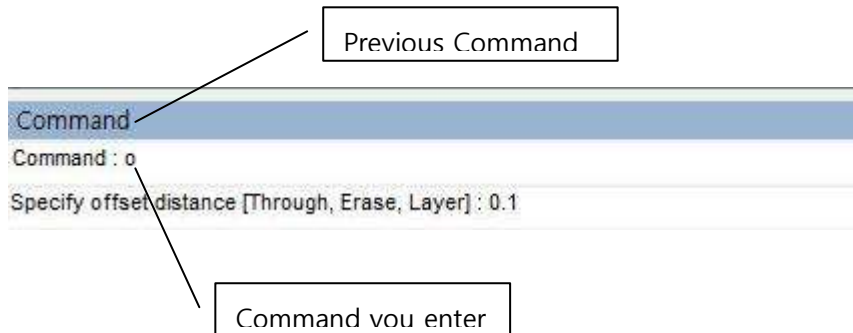
Click on the drawing area of your screen, and move the mouse with pressing the left button, the location of the click will move as the mouse moves. Even using the mouse wheel will bring the same effect.

f. Pan Step

If you would like to move the drawing in the vertical or horizontal. Press the arrow key on the key board, then the drawing will move at the same time as the mouse moves.

3.4 Command Console

Console allows you to enter all the commands of EasyCAD. The Command Console is shown as below.



3.5 Erase



This lets you remove the line you would like to delete in the drawing. First, select the line(s) you wish to remove, then click the 'Modify' icon on the side bar or press the 'Delete' key on the keyboard, finally the line(s) will be removed.

3.6 Select

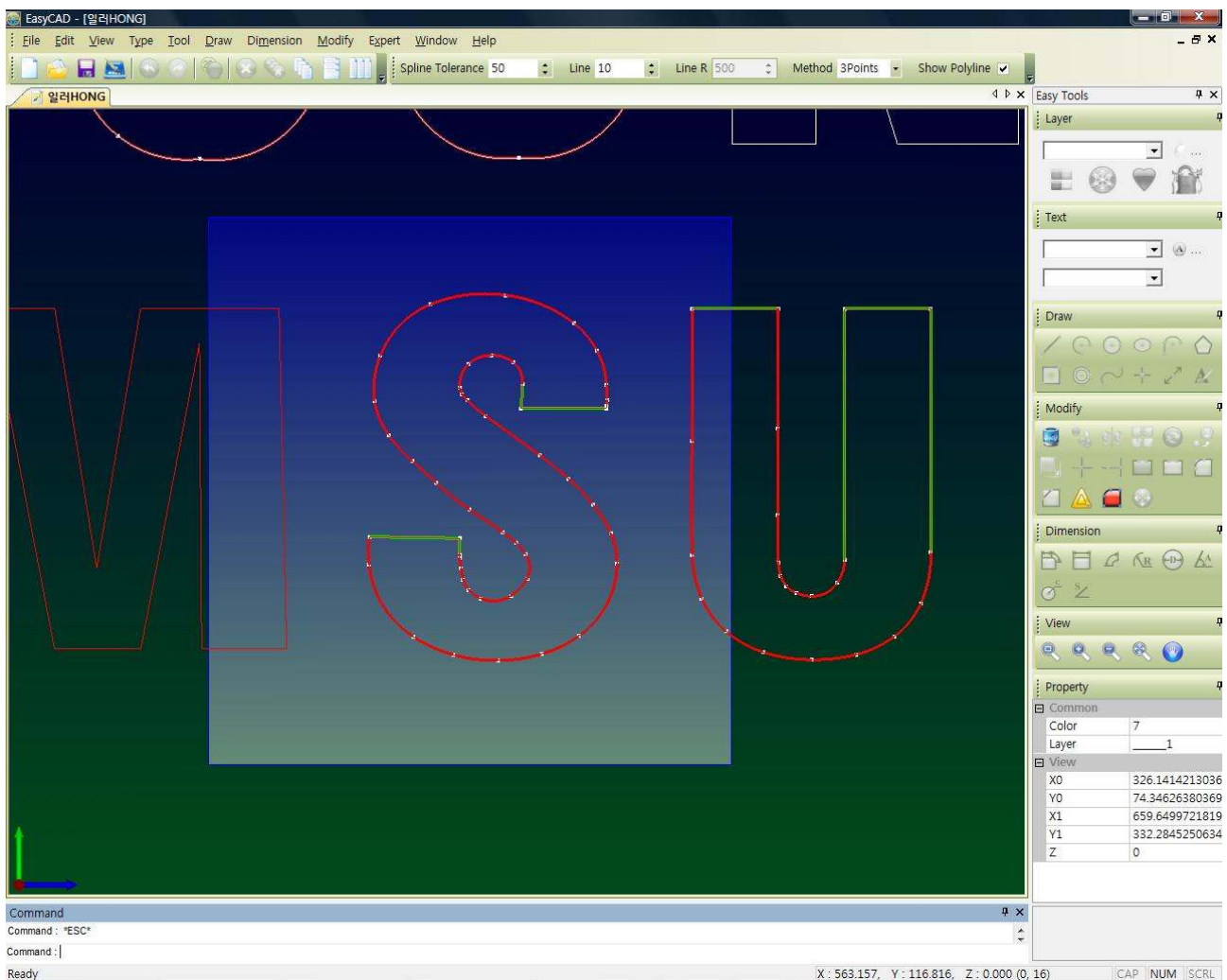
a. Select one object

To select one object, move the mouse around the object you wish to select. Then, the object will be activated with thick and highlight line. Left clicking on the activated object will select it as one object.

b. Multiple Select

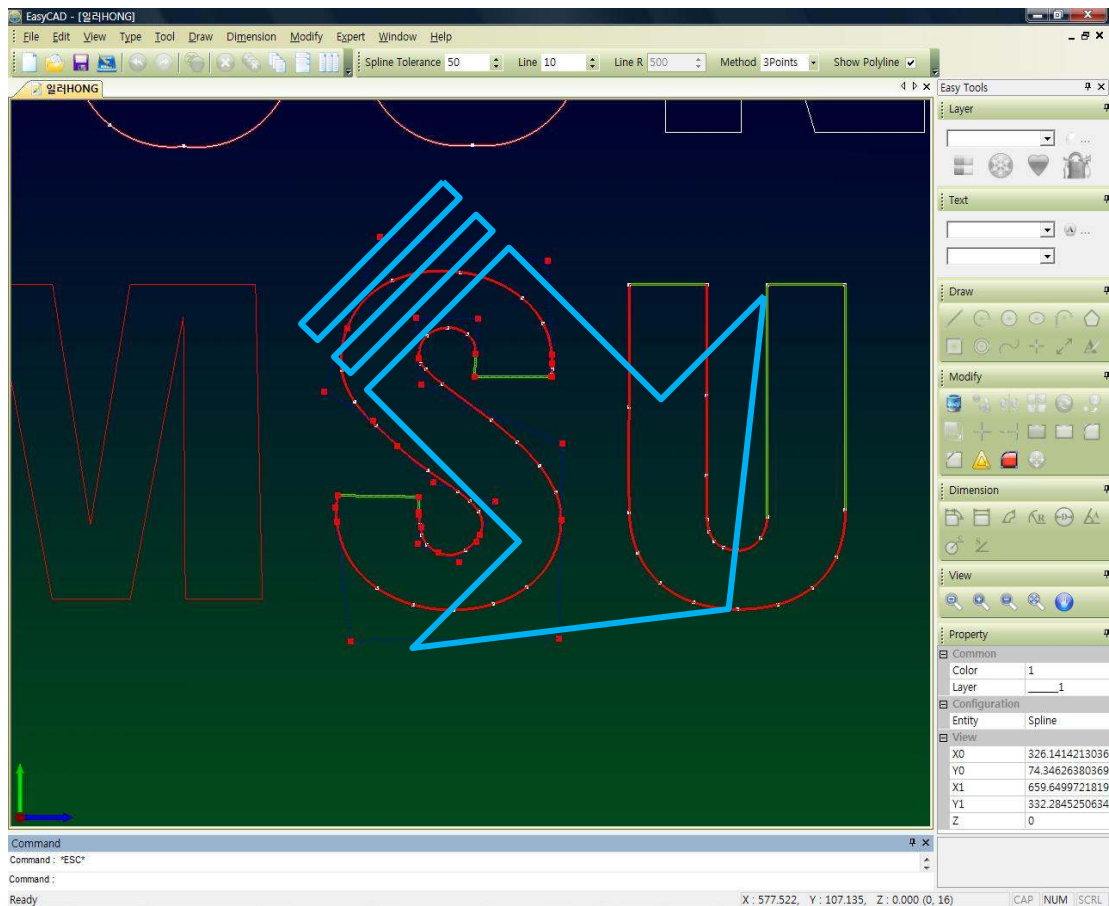
Left to Right Drag

After dragging left to right with pressing left button, and then press back the left button. The object in the range of dragging will be selected. If the object(s) is out of the drag range, or crossed on the boundary of selected area, they won't be selected.



Dragging the selecting area Left to Right:

Dragging mouse left to right with pressing left button will select all the objects in the boundary of the drag area.(see the below figure)

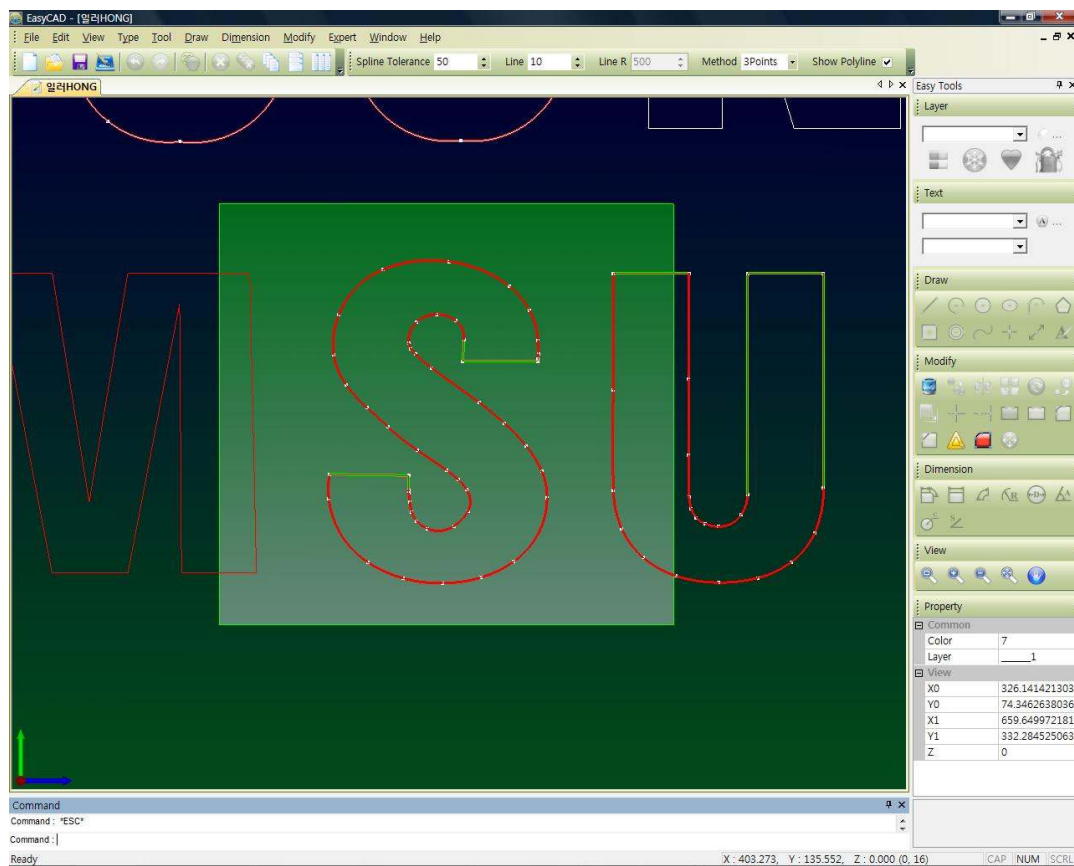


Right to Left Drag

Dragging the selecting area Right to Left:

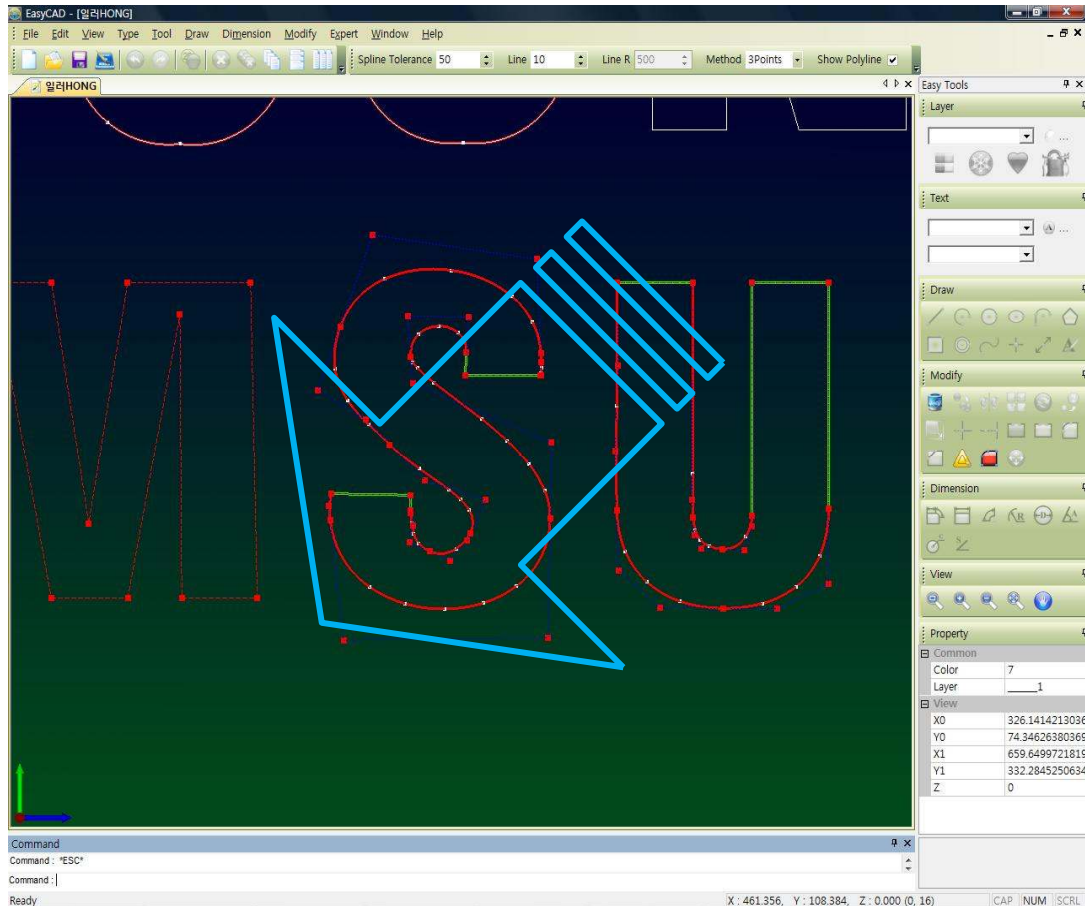
Dragging mouse right to left with pressing left button will select any object crossing on the boundary of the drag area.

After dragging right to left with pressing left button, and then press back the left button. The object not only in the range of dragging but also crossing on the boundary of selection area will be selected. If any parts of the objects are included in the selected area, they will be selected



Dragging the selecting area Right to Left:

Dragging mouse right to left with pressing left button will select any object crossing on the boundary of the drag area. If any parts of the objects are included in the selected area, they will be selected.

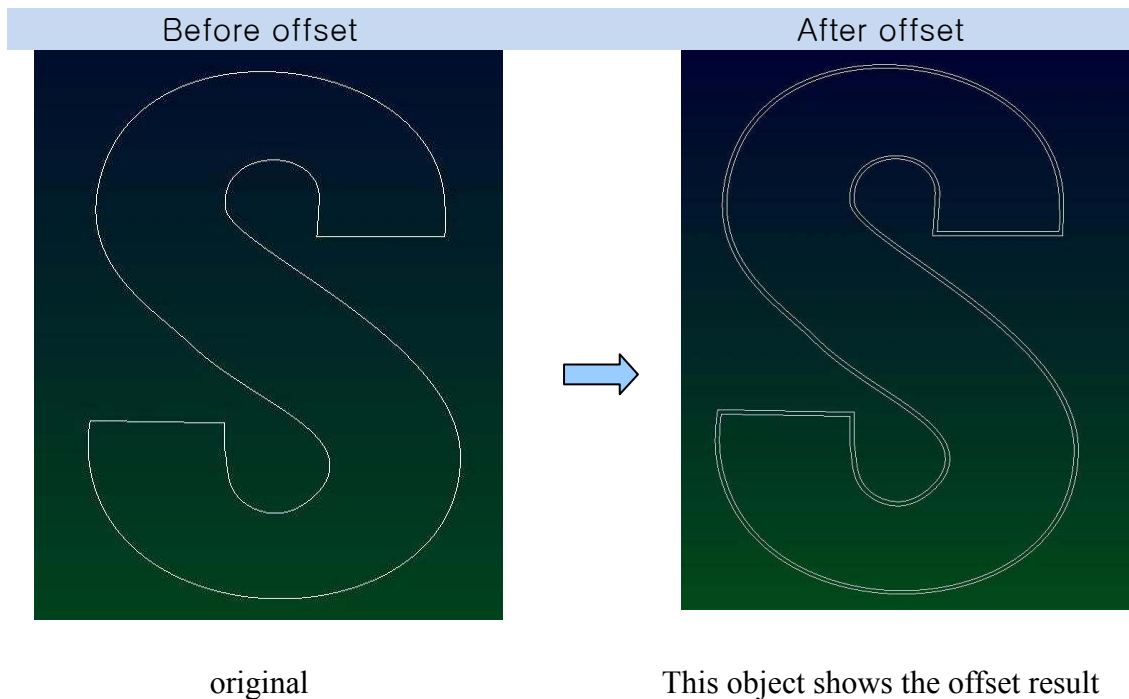


3.7 Offset



This will make a parallel copy of a line at an exact distance from that line. Offset is available for one object (line), or many objects if they are linked each. If they are not linked each, the Offset won't work

- Enter 'O' or 'offset' in the command line. Also, you can click 'Modify' icon on the side bar.
- Then, you can see the following message, 'Specify offset distance [Through, Erase, Layer]' on the command window.
- Then, input the offset distance.
- If the message says 'Select object to offset', click the object to offset.
- If 'Specify through point' message appears, click the direction to offset 
- Repeat step d~e. to offset for other objects
- If there is no more objects to offset, or if you want to cancel, press 'Esc' key.



3.8 Converting Spline to PolyLine

EasyCAD has the function dividing Spline into LINE and ARC, i.e. Polyline. Spline as curve can include tolerance to convert into Line and Arc. The converting tolerance can be adjustable by using the 'Spline Tool Bar'.

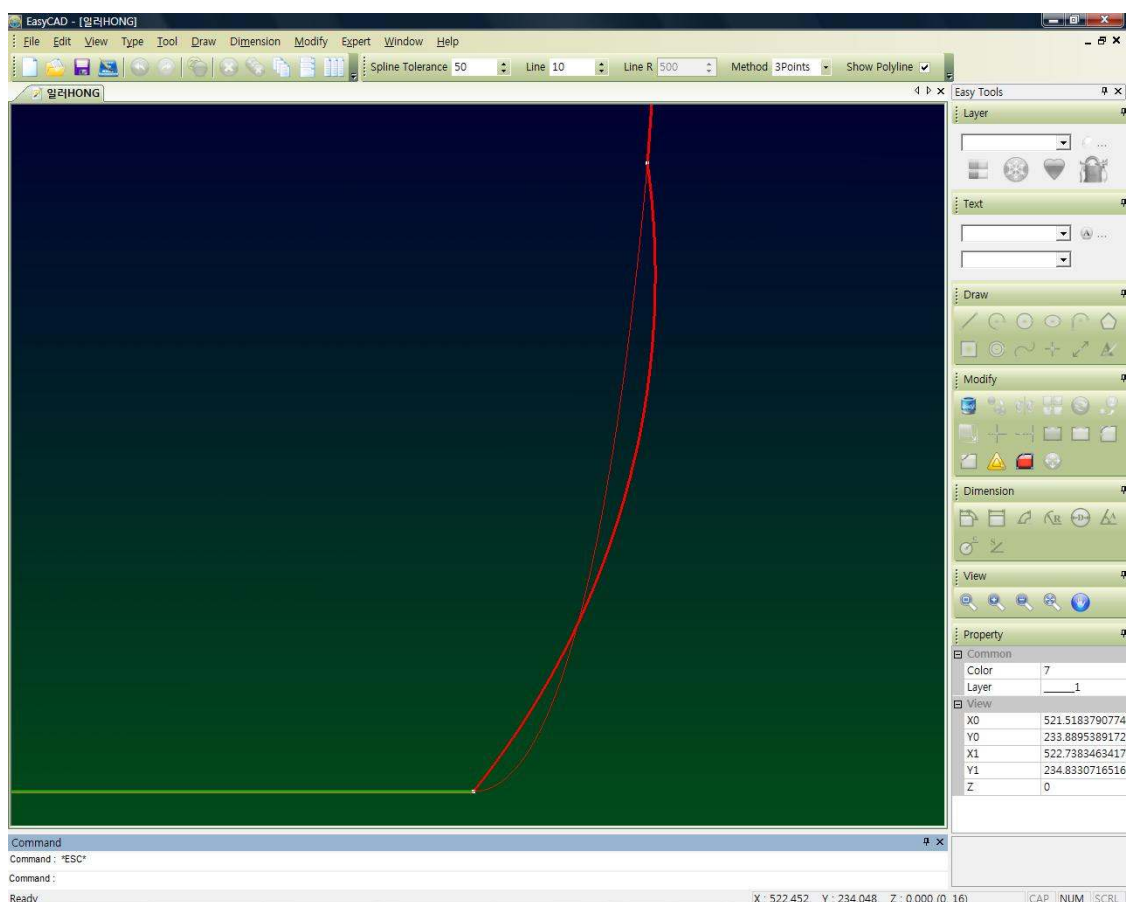
Spline Tolerance : This sets the allowed tolerance converting spline into polyline. The smaller the tolerance is, the polyline is converted closer to the spline

Line: This sets the allowed value the spline into line. The larger the value is, the converted element gets more LINE than ARC..

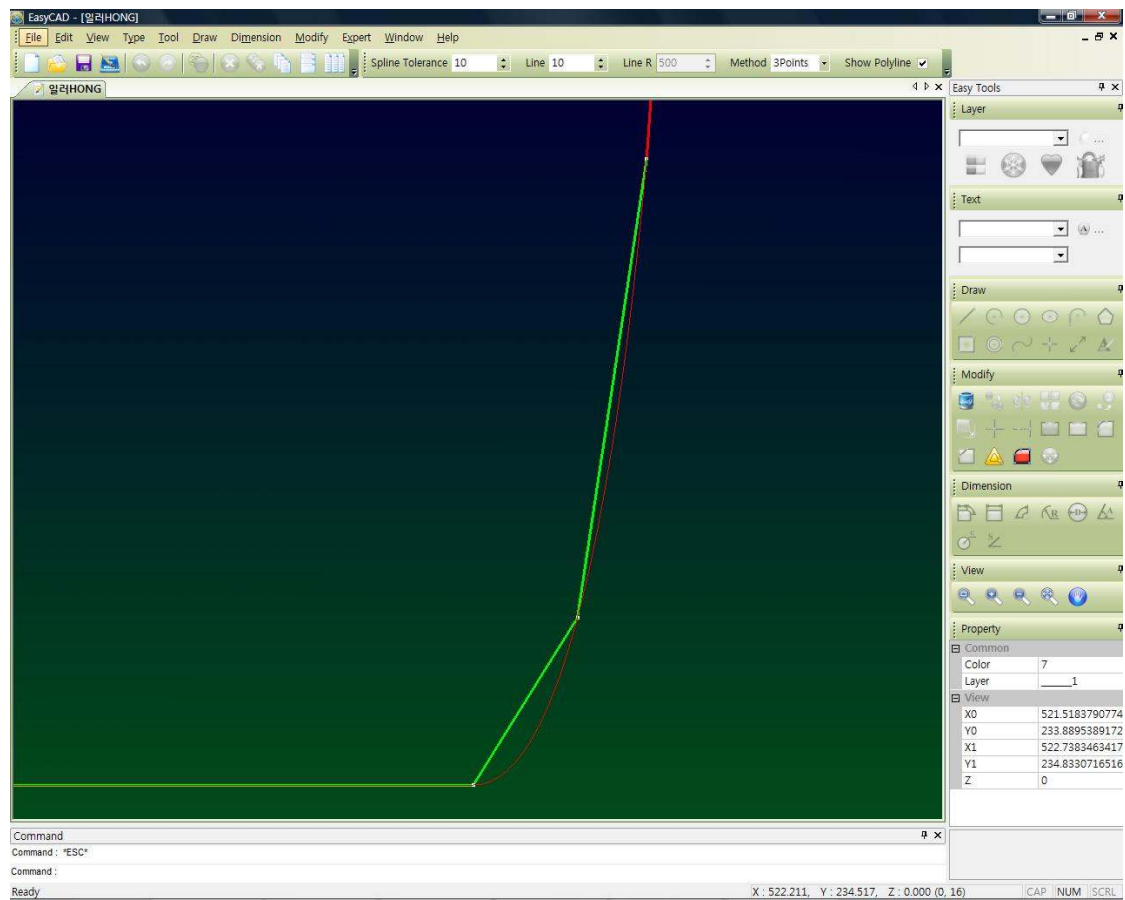
Line R: When spline is divide into line and arc, if the radius of the arc is larger than the setting, it is converted into line.

Method : Supported '3Points' only

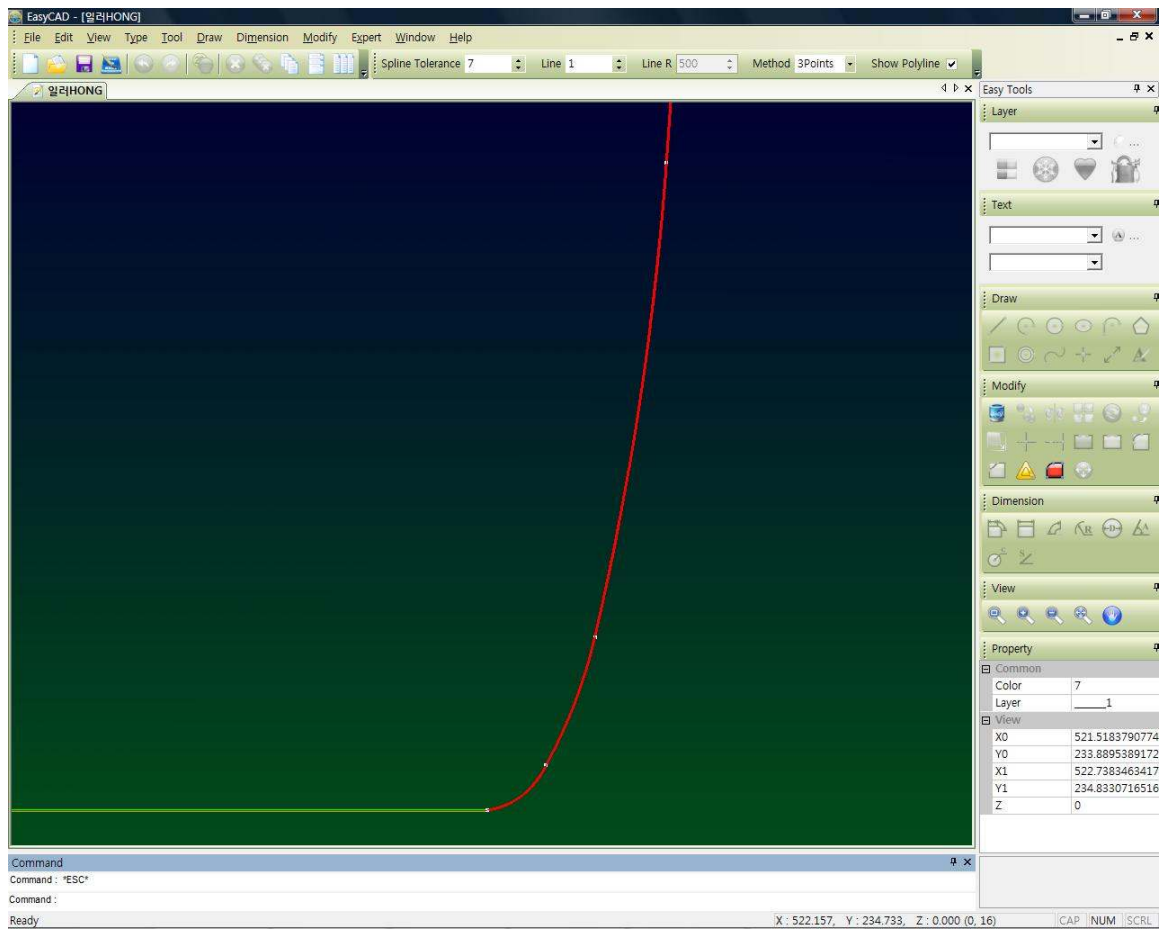
Show Polyline : Display line and arc elements converting into polyline. After checking 'Show Polyline', changing the Spline Tolerance, you can see the polyline converting in real time. The Spline Tolerance is applied to all the spline in a drawing.



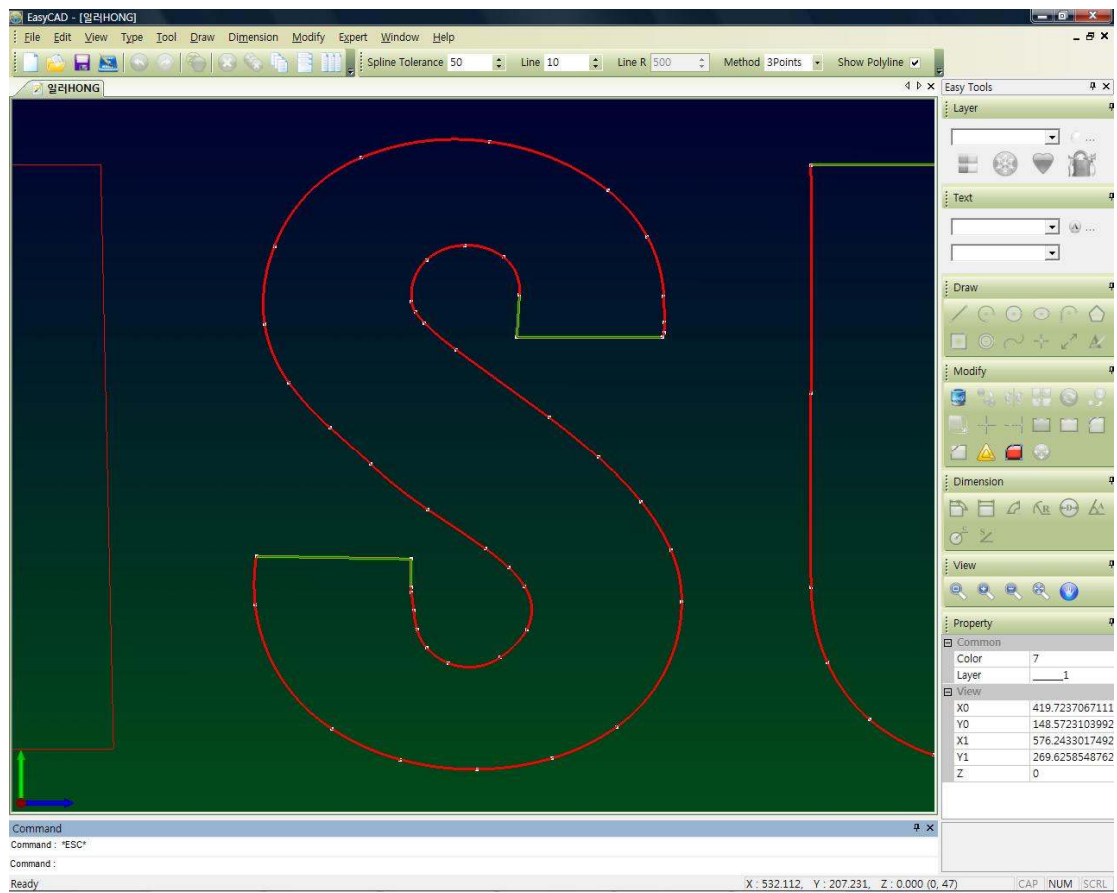
Spline is displayed in a thin line, and the converting polyline is shown in a thick line. Similarly, arc is displayed in red and line in green.



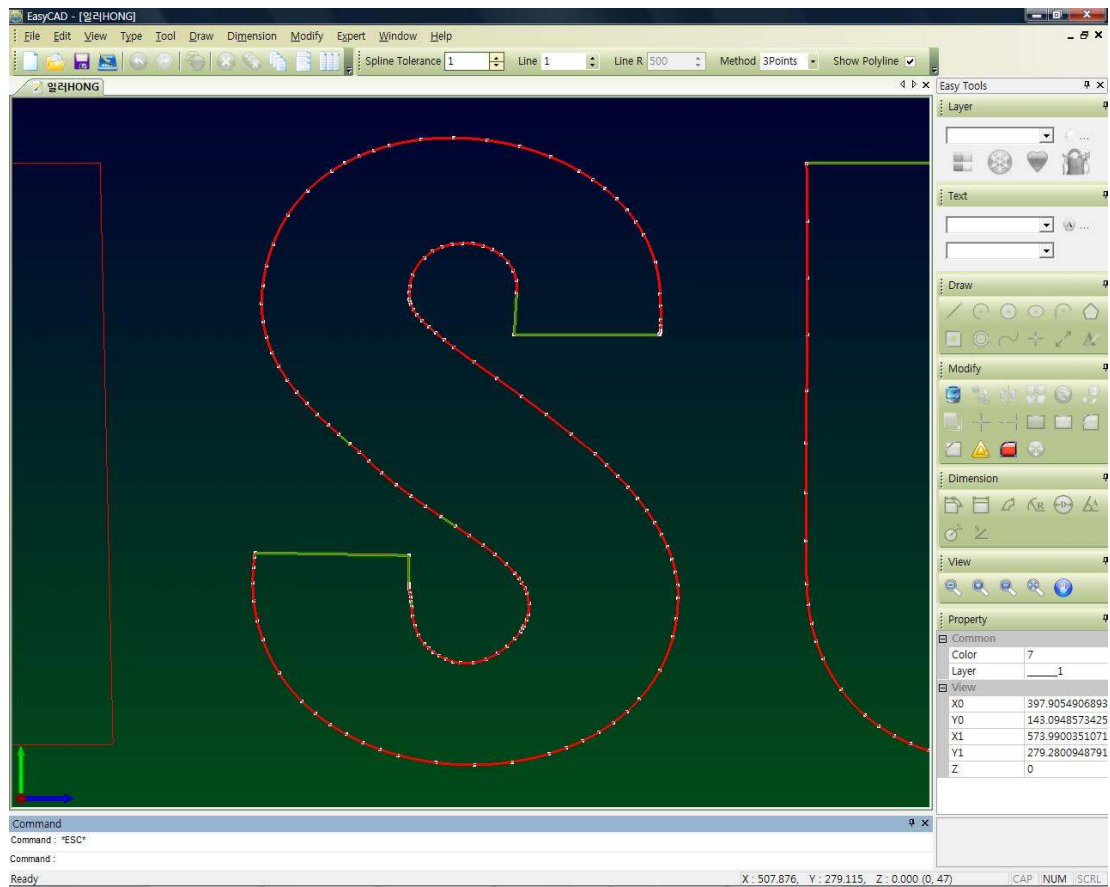
When the default setting [Tolerance: 50, Line: 10] is given, the above figure shows the result that the Tolerance 50 is changed into 10.



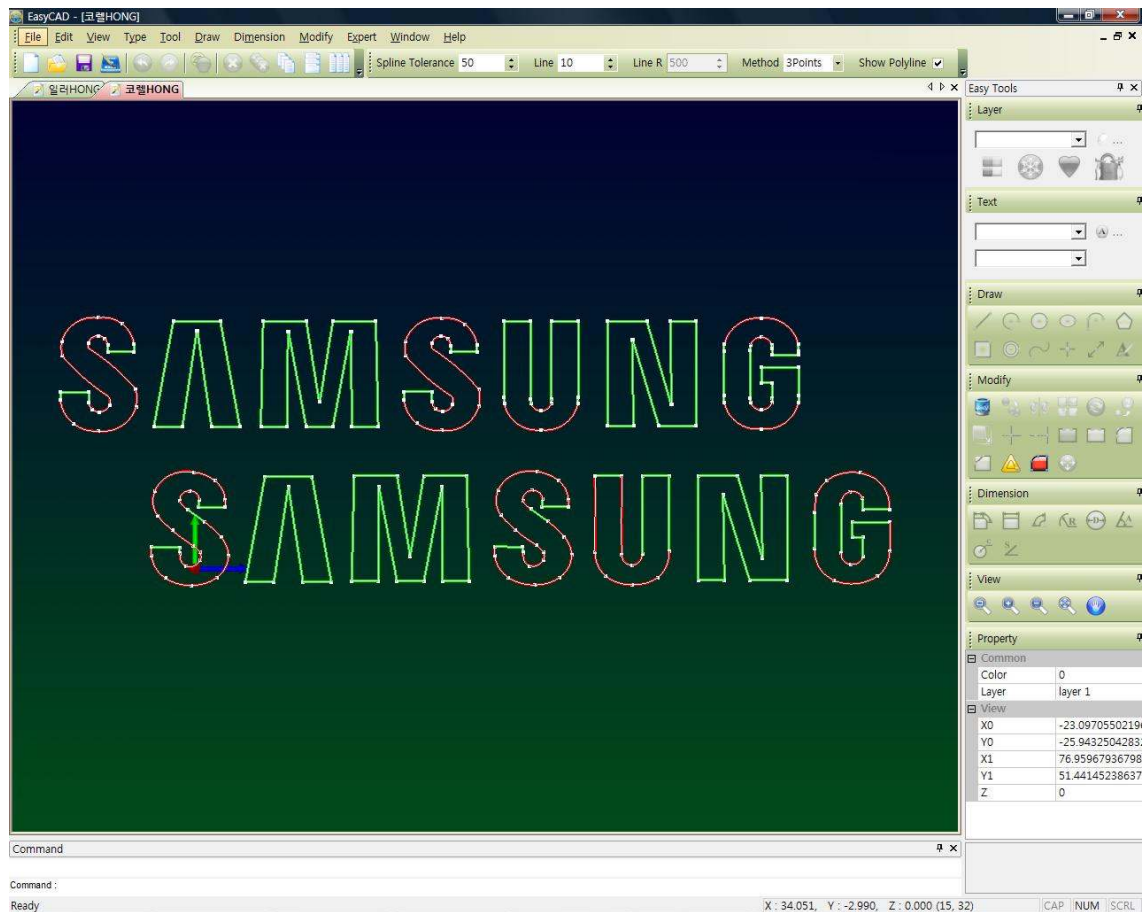
The above figure shows the result when the setting is changed into Tolerance: 7 and Line: 1. The smaller the tolerance is, the polyline is converted closer to the spline but the length of the converted line and arc is reduced.



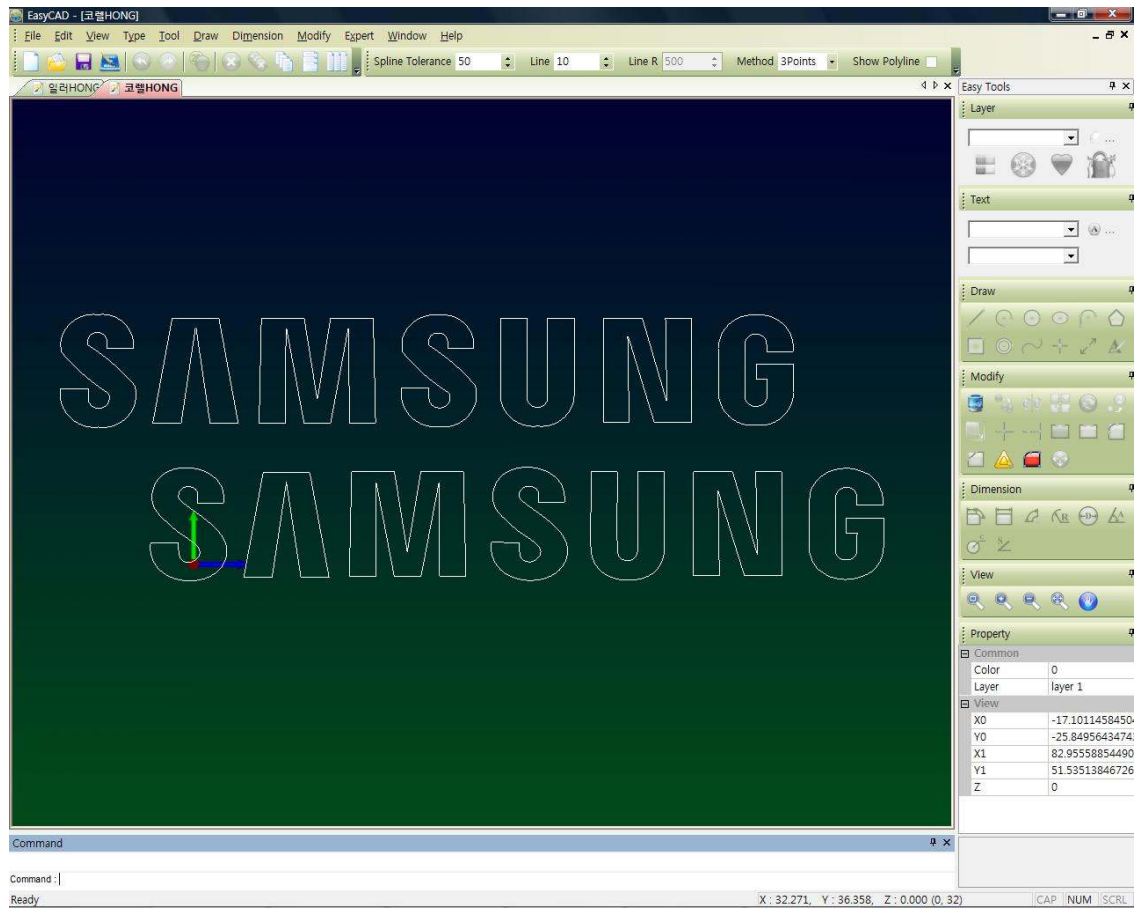
The dot to dot section on the drawing is the element separated into line and arc.



The above figure shows the result when the setting is changed into Tolerance: 1 and Line: 1. You can figure out the separated section is shorter than the previous figure.



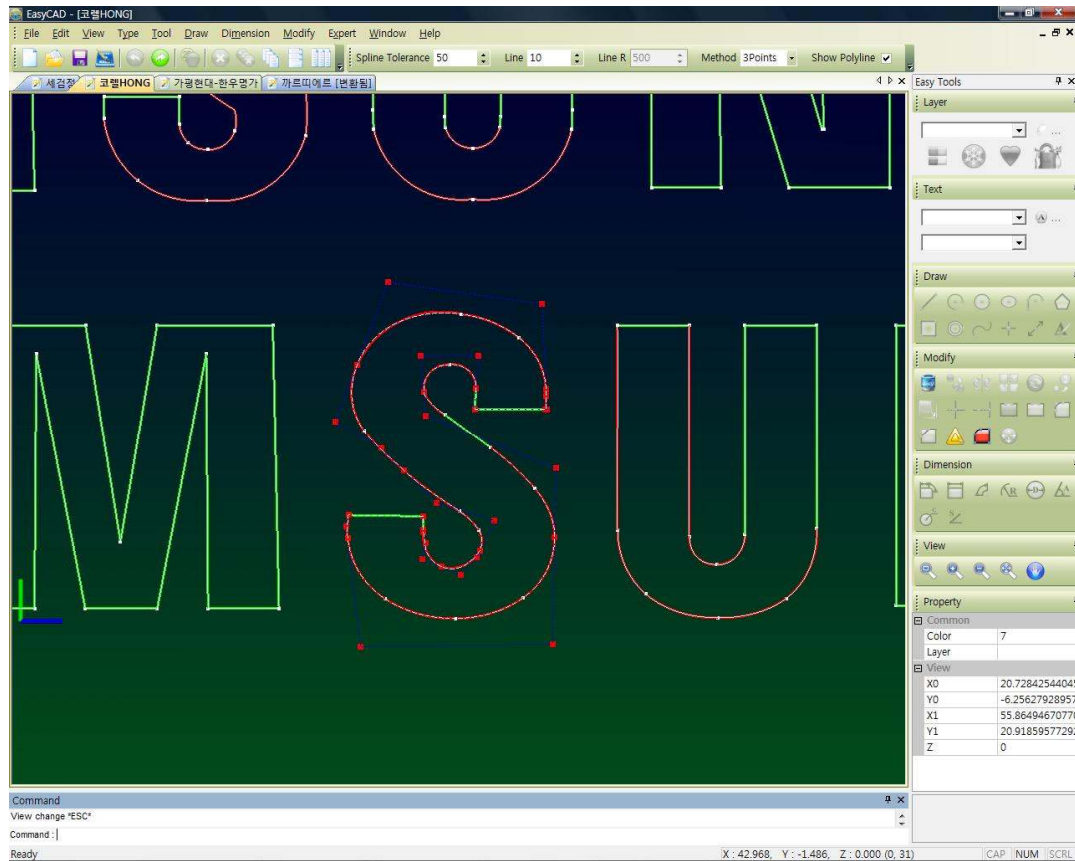
The above screen is shown when Show Polyline is selected. It displays arc in red and line in green. Show Polyline.



The above screen is shown when Show Polyline is unselected. Unselecting displays only spline element

How to convert

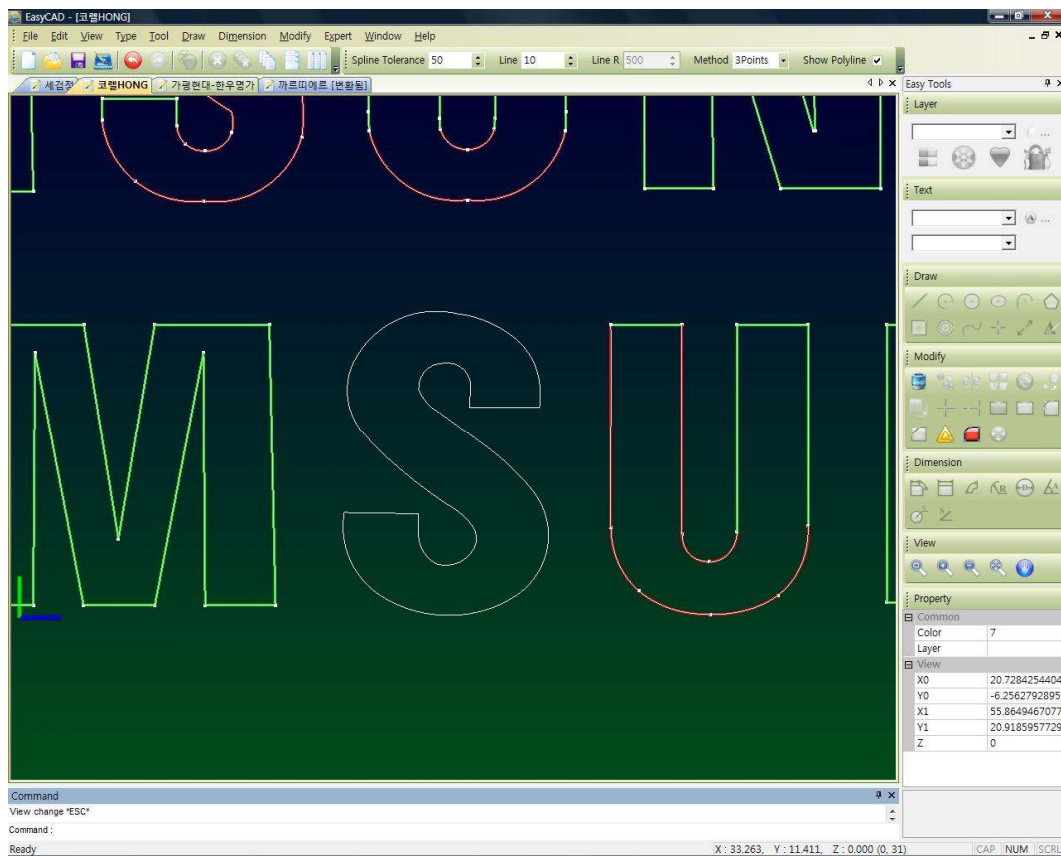
Select spline you wish to convert. The selected object is displayed in dot.



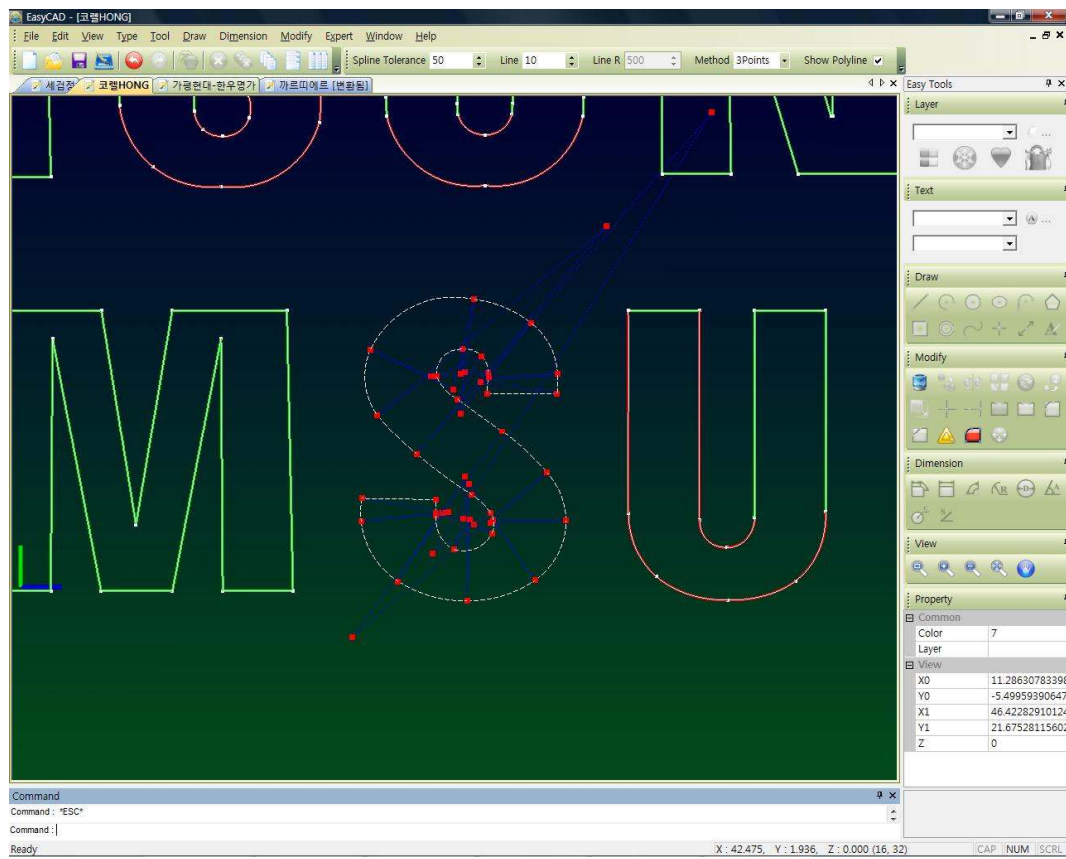
Change the tolerance of the object you wish to convert (You may select the object after changing the tolerance).



Click 'EXPLODE' icon of the Modify menu on the side bar



The polyline element of the spline is not displayed in red or green any more after conversion



When selecting the converted object, you can see it divided into line and arc