

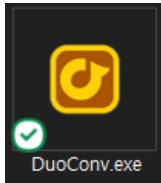
DUOCONV USER GUIDE

Notice : DUOCONV program was developed to support Valloy's DUOBLADE customers to have high quality PLT files from AI and PDF files easily and quickly. Through intensive testing and algorithm enhancement, DUOCONV can give the best quality of PLT conversion and it will make noticeable different in actual cutting quality with all DUOBLADE digital cutter models. More useful functions are available with commercial version in addition to basic features of freeware.

OLD AI2PLT SW	DUOCONV FREE VERSION	DUOCONV PRO VERSION
Supporting AI file (compressed AI file cannot be supported)	Supporting all AI and PDF files including compressed AI files	Supporting all AI and PDF files including compressed AI files and multipage PDF files
Exporting PLT (HPGL1) file	Exporting PLT (HPGL1) file	Exporting PLT, PDF, GPGL, DMPL and etc. for various kinds of cutters (Regeneration of printing PDF file)
Nonselective layers or spot colors	Selective layers (max. 2)	Selective layers (unlimited) Selective spot colors (pre-named)
Cannot recognize marks	Recognize marks	Recognize marks (Also possible to put marks during regeneration of printing PDF file)
Supporting Rotation	Supporting Rotation/Mirroring	Supporting Rotation/Mirroring
Setting PLT resolution (0.05mm)	Setting PLT resolution (0.025mm)	Setting PLT resolution (0.025mm)
No preflight option	Preflight warning (open object, sharp angled object, near object)	Preflight warning (open object, sharp angled object, near object)
No support of automatic error fix	Limited support of automatic error fix for removal of duplicated object only	Automatic error fix (group, clipping mask, duplication, micro object, near object, line break and etc.)
No support of multipage PDF	No support of multipage PDF	Supporting multipage PDF
No support of starting point optimization	No support of starting point optimization	Supporting start point optimization
No support of cutting direction optimization	No support of cutting direction optimization	Supporting cutting direction optimization
No support of cutting sequence optimization	No support of cutting sequence optimization	Supporting cutting sequence optimization
No dash-line conversion function	No dash-line conversion function	Supporting dash-line conversion
No supporting for review of PLT	Supporting review of converted PLT, overlapped with original AI/PDF	Supporting review of converted PLT, overlapped with original AI/PDF
No support for regeneration of printing PDF file	No support for regeneration of printing PDF file	Regeneration of printing PDF with inserting (micro) QR code and(or) registration marks
Supporting hot folders	Not supporting hot folders	Supporting hot folders
Free	Free	USD 300 for end customers (USD 200 for distributor) 30 days evaluation version available

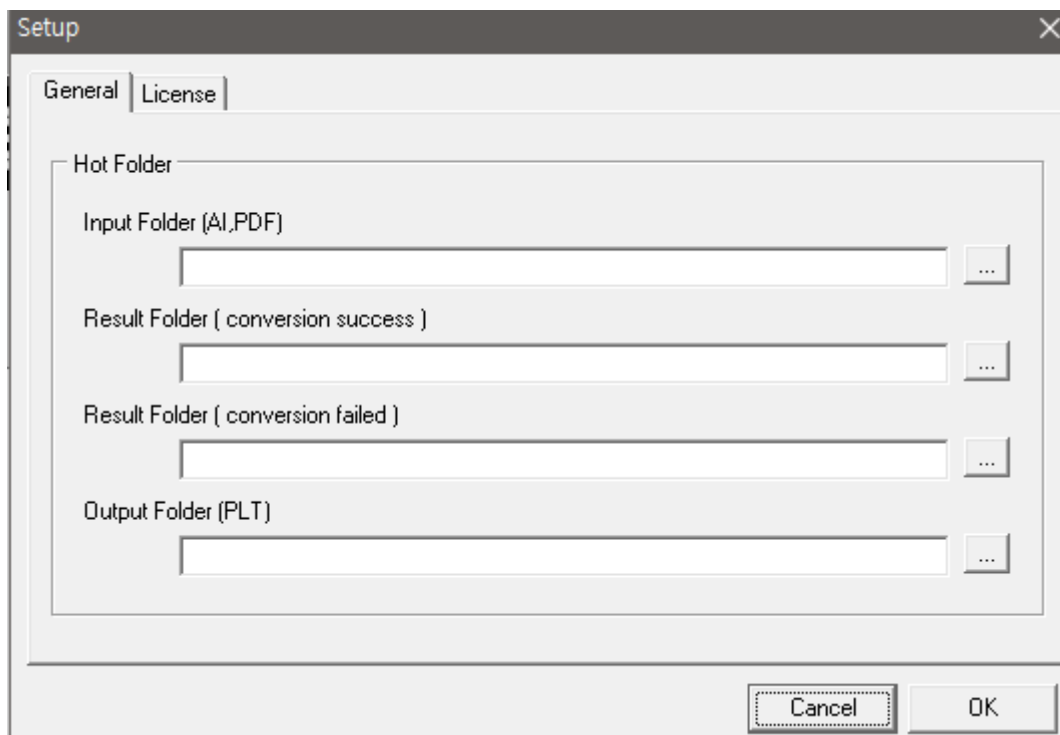
1) Installation

Freeware does not have installer. Just copy EXE file to local folder.



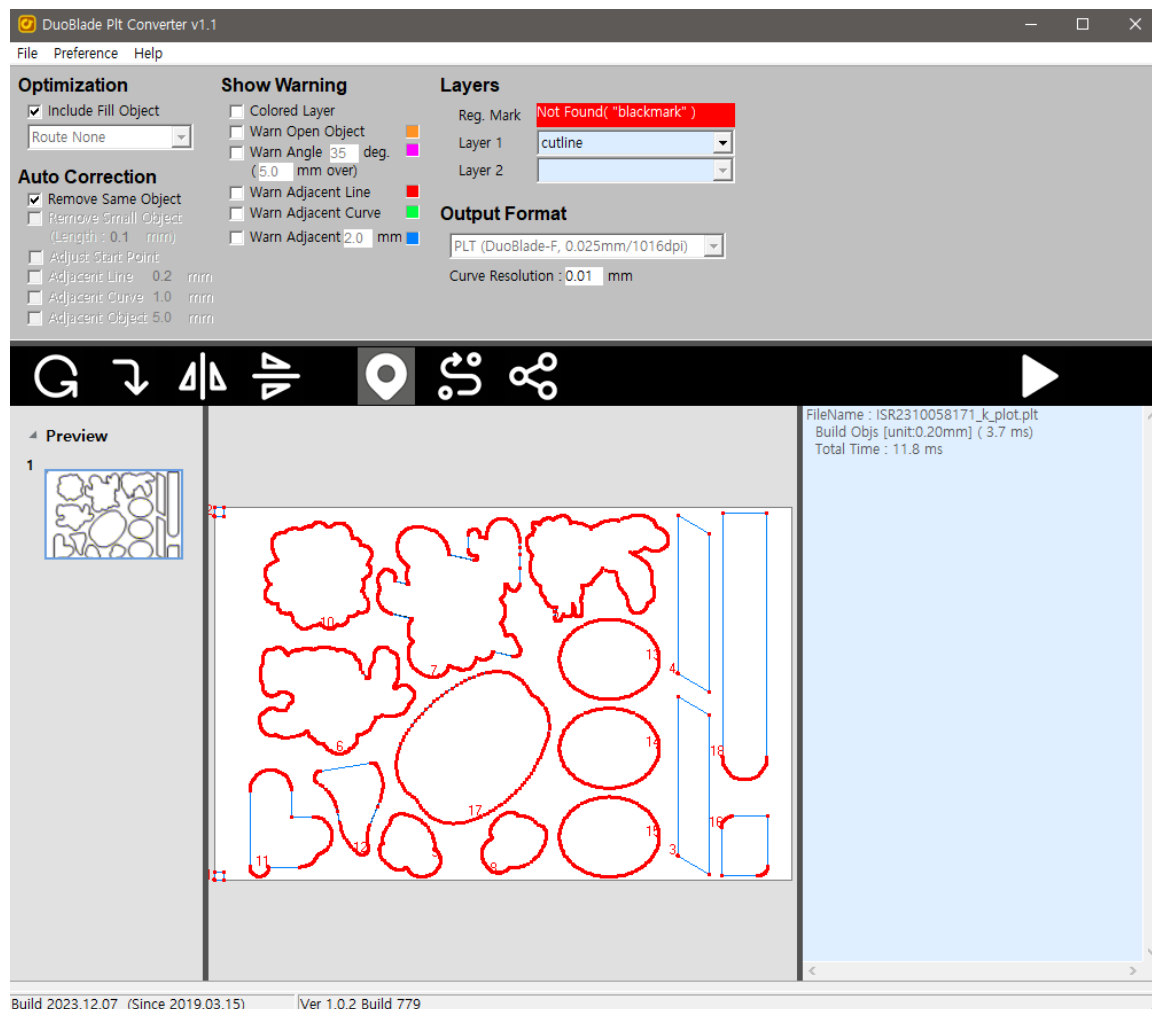
2) Menu

- FILE>OPEN : Open AI or PDF files
Drag & Drop of compatible files will work too.
- FILE>CLOSE : Close loaded file
Useful to clean the current display window.
- FILE>EXIT : Close program
Program can be terminated by pressing EXIT icon of right-top on GOU also.
- PREFERENCE>LANGUAGE : Language setup (Korean and English)
More languages will be added in commercial version.
- PREFERENCE>SETUP : opening setup page. Hotfolder, Dash-line parameters, QR/MARK parameters, Pre-named spot, License and etc. AI or PDF files in INPUT folder will be converted to PLT files automatically and original files will move to RESULT folder.
(Available for commercial PRO version only.)



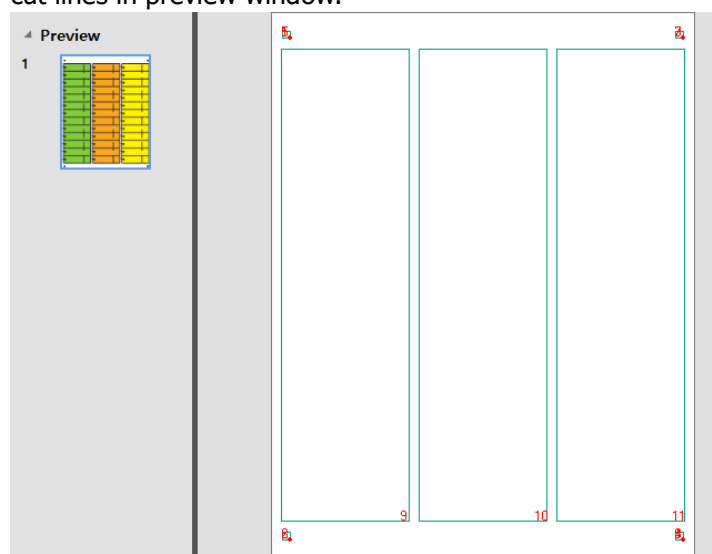
- HELP>HOMEPAGE : opening VALLOY website (www.valloy.com)
- HELP>ABOUT : displaying version info

3) Functions of GUI

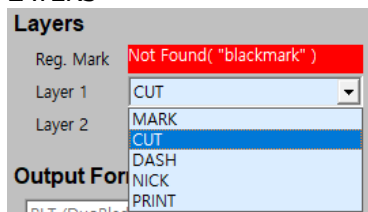


- THUMBNAIL and PREVIEW

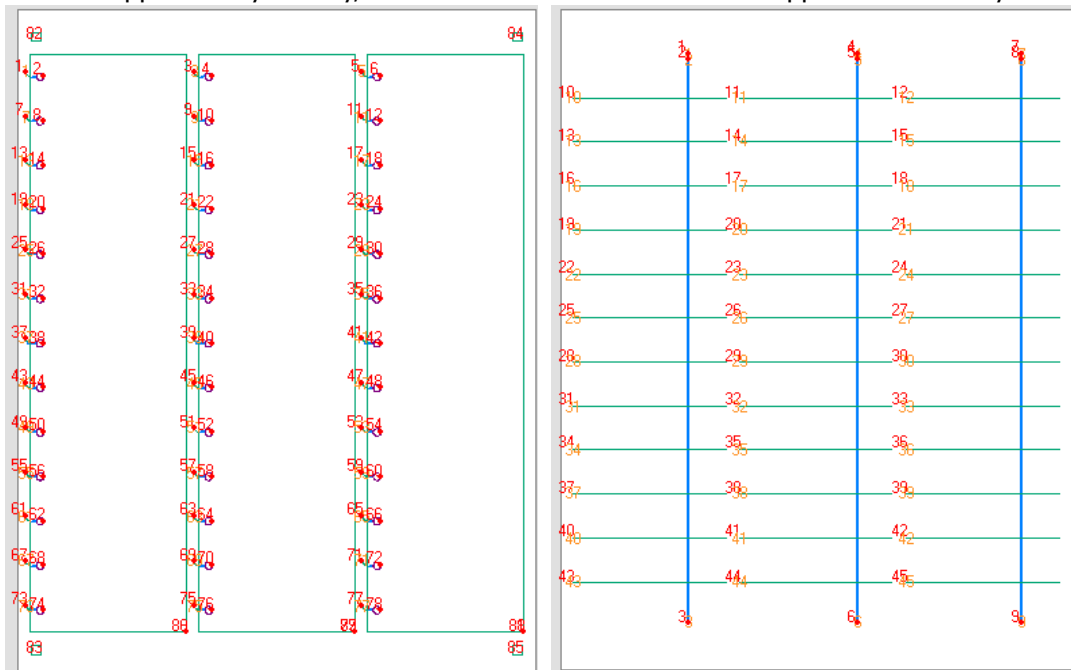
When drag & drop original AI or PDF file, it will show print preview in thumbnail window and cut lines in preview window.



- LAYERS



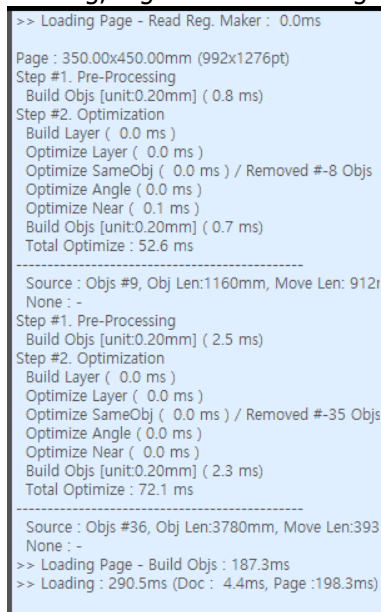
Selectable layers will be displayed in dropdown list. Choose layers of marks and cut lines. Free version supports 2 layers only, but Commercial PRO version will support unlimited layers.



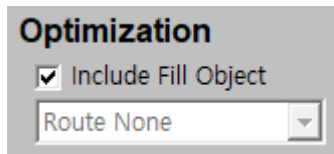
Free version can only display colored objects. Commercial pro version will recognize named spot colors to extract cut lines.

- INFORMATION WINDOW

Information window will show original file info and processing info of optimization and file building, together with loading time and blade moving distance info together.

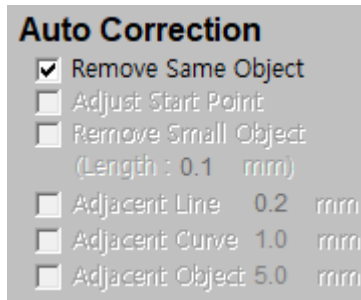


- OPTIMIZATION



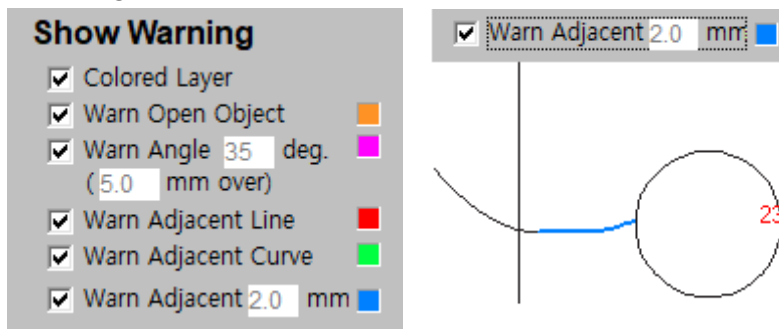
Supporting FILL object like MARKS. If you do not see marks in the preview window, please try to activate 'include fill object' option. Commercial PRO version will support more useful optimization and analysis tools for starting point, cutting direction, cutting sequence and etc.

- AUTO-CORRECTION

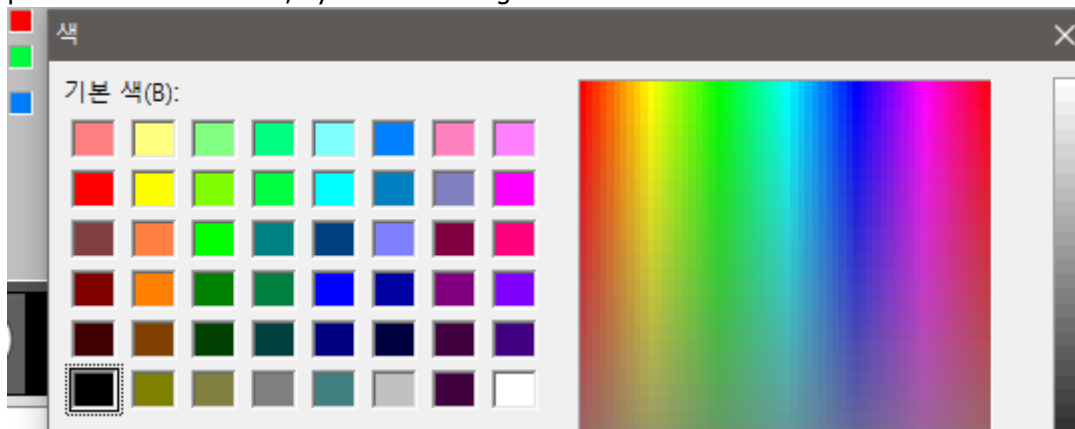


Free version can fix duplicated object error automatically. Commercial PRO version will support more error fixing options like group, clipping mask, duplication, micro object, near object, line break and etc.

- WARNING

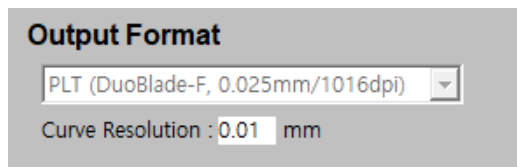


It shows objects under various warning in different colors. Colors can be changed into preferred color for each, by double clicking color icon.



- OUTPUT FORMAT

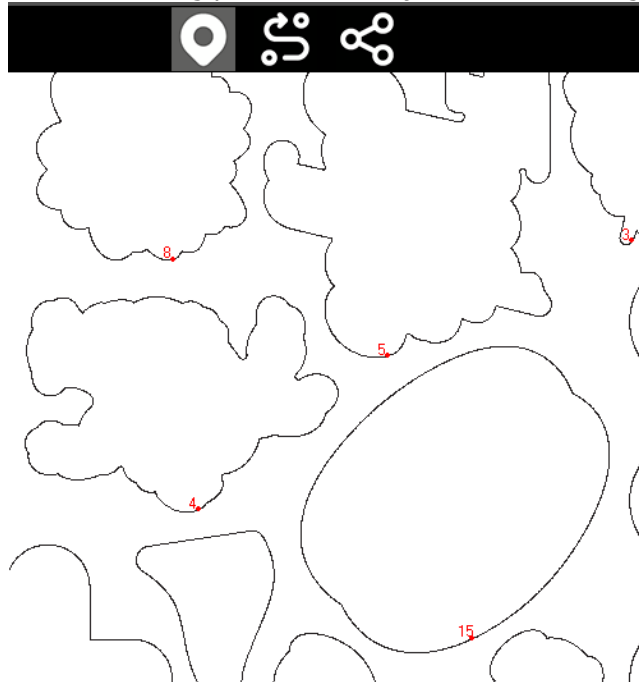
Free version supports DUOBLADE PLT (HPGL1) files only for output. Commercial PRO version will support PLT, PDF, GPDF, DMPL and etc. for different kinds of digital cutters. Commercial PRO version will also support of printing file output by regeneration of PDF with including QR and marks.



Curve resolution default value is 0.01mm. 0.05mm will reduce file size a bit. But 0.01mm will provide smoother and more accurate result.

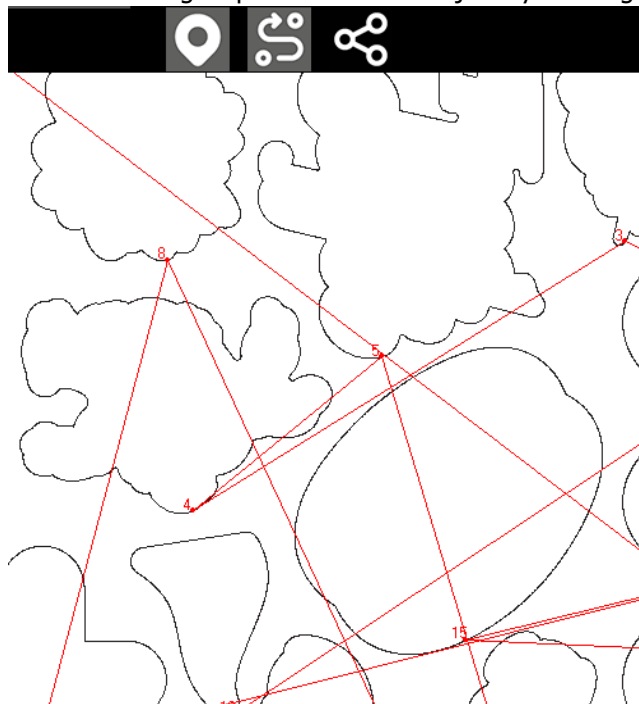
- **SHOW START POINT**

It shows starting point of each object with numbering. Pro version supports optimization.



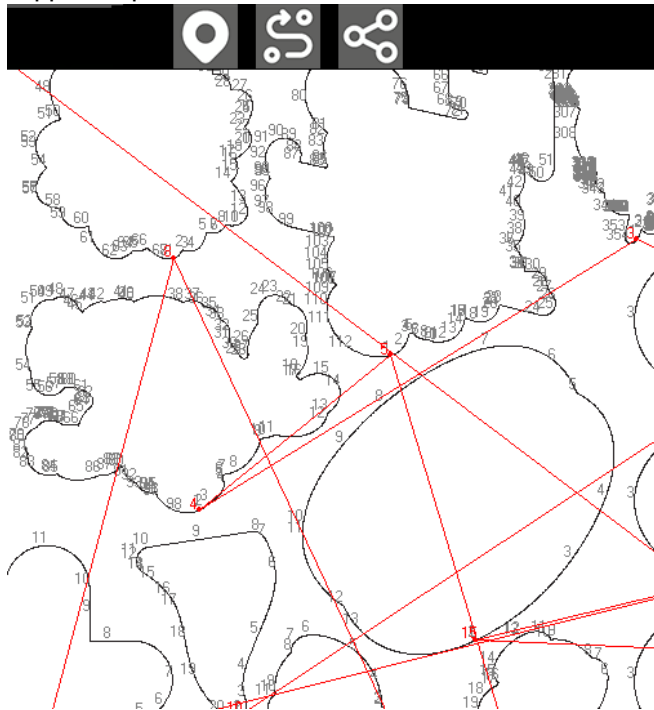
- **SHOW CUTTING SEQUENCE**

It shows cutting sequence between object by drawing lines. Pro version supports optimization.



- SHOW CUTTING PATH (direction)

It shows cutting direction of each object by numbering of path inside the object. Pro version supports optimization.



- RESET



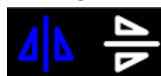
By clicking RESET icon, layout adjustment like rotation, mirroring, scaling, panning will be initialized.

- ROTATE



Repeated clicking of ROTATE icon will rotate the whole display in 90, 180, 270 degrees.

- MIRROR



Vertical or Horizontal mirroring can be supported.

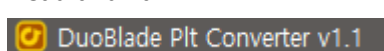
- PLOT



Plot icon will generate PLT file in the same folder of original file.

Rendering for Plotter (216.2ms)
Saved : D:\Dropbox\#3.PROGRAM_BACKUP\#DuoBlade
- Plotter Saved :D:\Dropbox\#3.PROGRAM_BACKUP\#

- Head and Tail



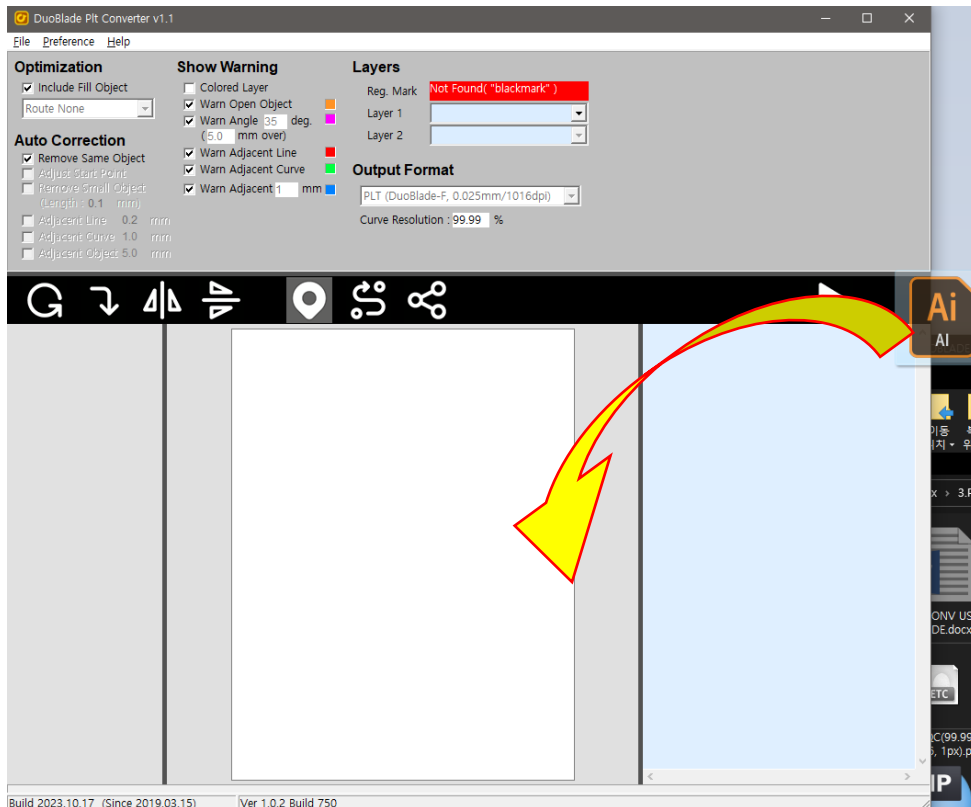
Build 2023.10.17 (Since 2019.03.15) Ver 1.0.2 Build 750

Version and build info can be checked.

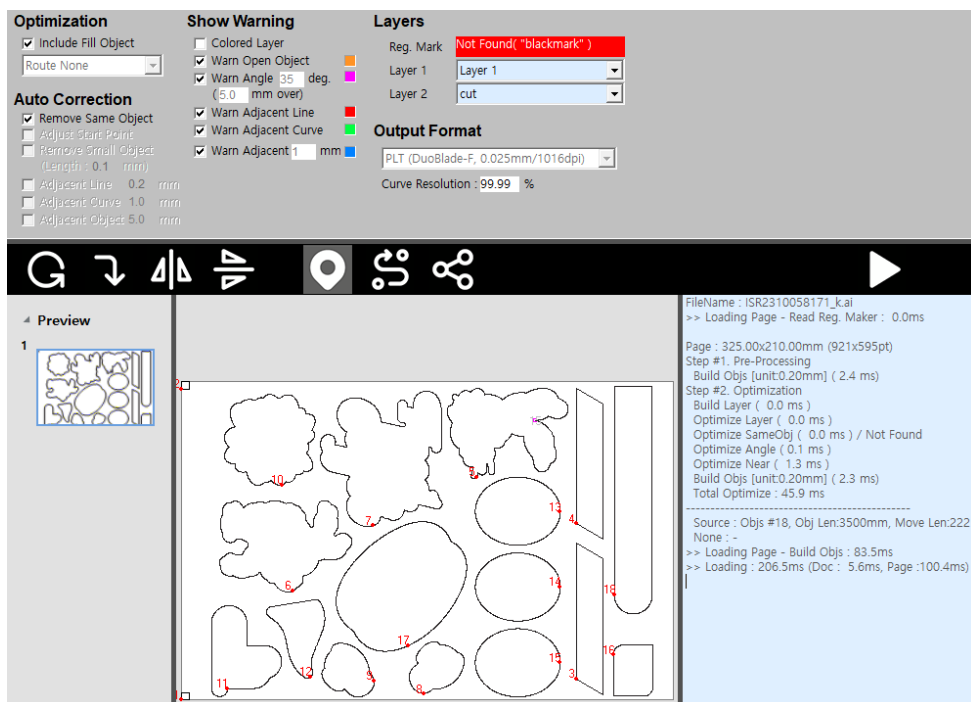
4) Operation

Drag & Drop AI or PDF files to the preview (or info) window of GUI.

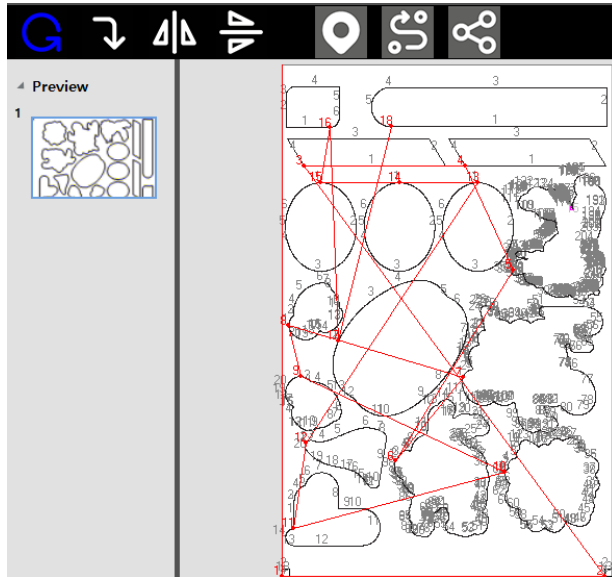
Multipage PDF file can be supported in commercial PRO version only (Selected page in thumbnail view will show preview to be convert into PLT files).



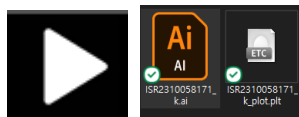
If you cannot see marks, try to activate 'Include Fill Object' function. Chose required layers to cut in the layer 1 and layer 2 drop down window.



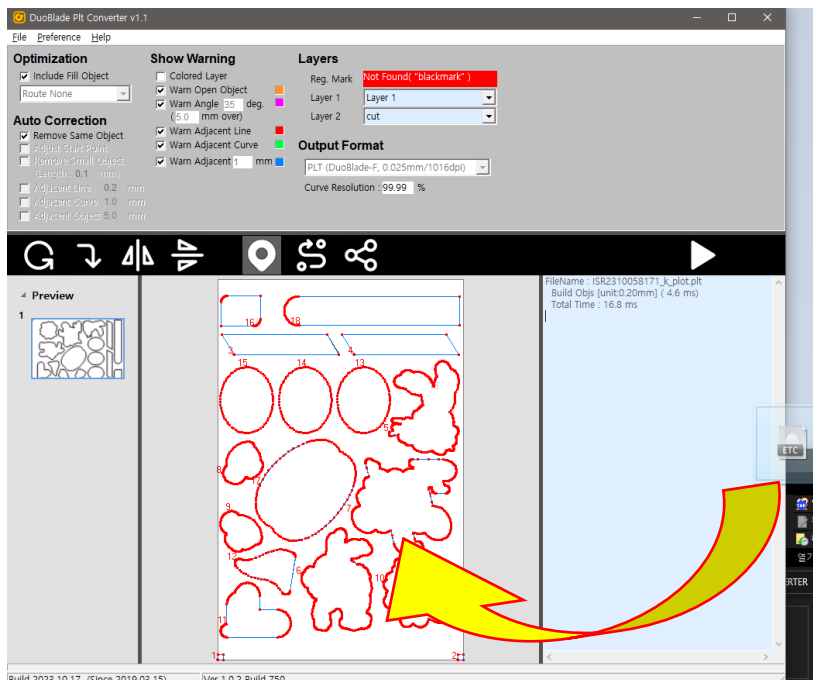
Mirror or Rotate if required. Cut path and sequence can be checked. Commercial PRO version will have various powerful optimization tools as well as dashline (or scoring line) creation of selected object automatically. (Changed Rotation and Mirroring option will be applied to newly loaded AI/PDF files until RESET button is pressed, so quick PLT conversion with the same settings can be done.)

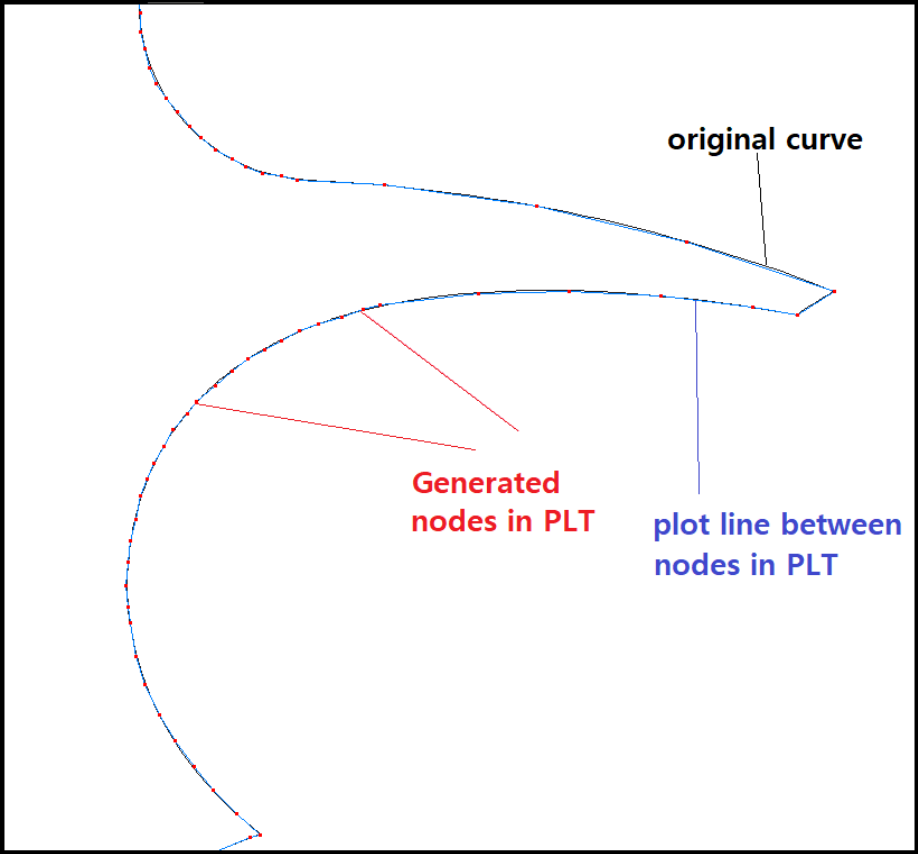


Press PLOT(RUN) icon to create PLT files by conversion. PLT file will be saved in the same folder of original file. If you run again with the same original file, PLT file will be overwritten.



After converting, it is possible to review the quality of converted PLT file in the same window where original file is loaded. Drag and drop converted PLT file to check nodes and lines to cut. In overlay mode, reset, rotation or mirroring will not work. To end overlay mode, load new file or close the current file.





Quality of PLT converted by DUOCONV is superior to AI2PLT or CorelDraw.

AI2PLT	COREL DRAW	DUOCONV

(DUOCONV does not show broken segments nor irregular distribution of node density problems.)