

AllenCAD 7.2 Features

Technical Support Bulletin

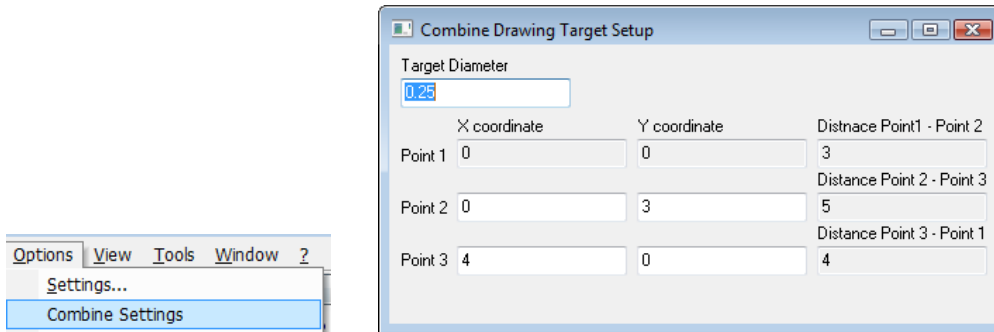
Combine, Cleanup, European Cut Lines & Auto Dimension

Last Update 10-18-8

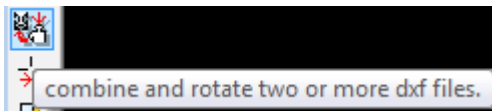
Abstract: This technical support bulletin describes the new features of AllenCAD 7.2. The combine command takes two files show with the measuring device and rotates and positions them in the same drawing. The cleanup function takes two lines that are in the resultant file and joins them together. The Draw European Cut Line allows placing a special line in the countertop to force a split at the line. The auto dimension adds dimension text along lines in the drawing.

Combine Command

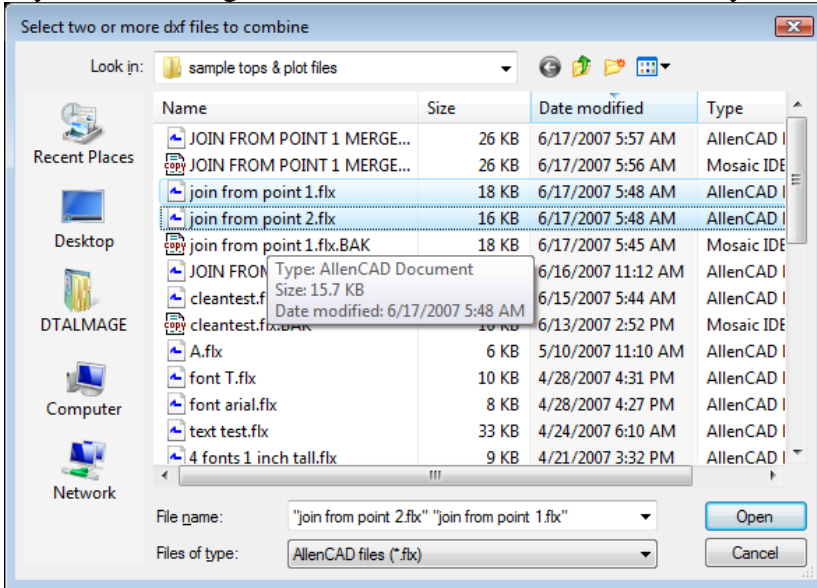
Before starting you must set up the target. The target is 3 posts positioned in a triangular arrangement. The 3 posts must be round and the same diameter. The distances between any two post must be different. The example below shows a 3, 4, 5 right triangle.



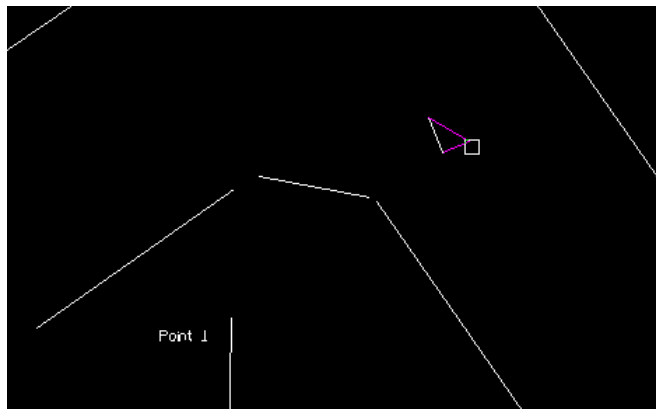
To start the combine function after setting the post locations and diameter click on combine tool.



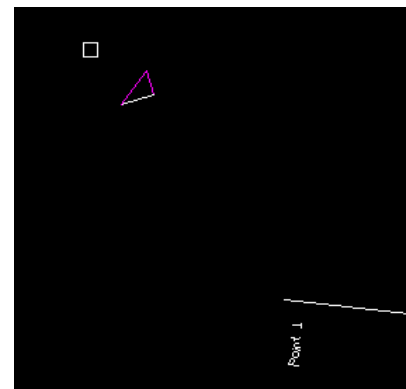
The program will then ask for all the files you want to combine. Use the shift key or ctrl key while clicking on the filenames to select all the files you want to combine.

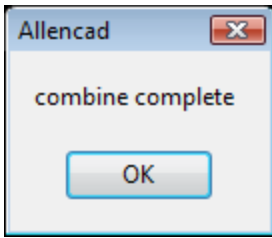


If the combine command can find the target within each drawing the command will display combine complete dialog with each file in a different color and layer. If the combine command cannot find the target in the file, the program will then display the 1st file. You will then have to select two lines of the combine tool, then right click.

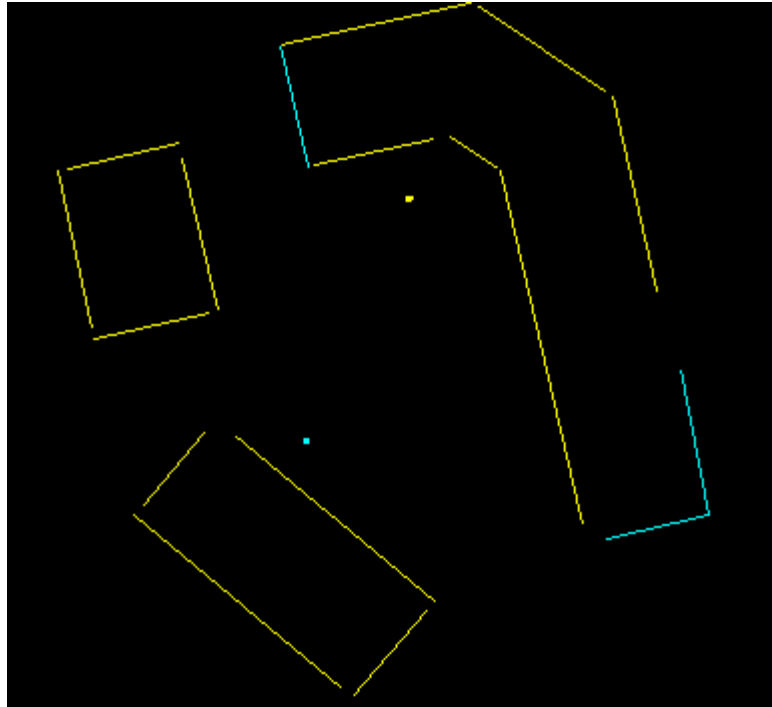


The program will then display the 2nd file. Select the two lines of the tool again and right click. Upon completion of the combine the program will display a complete message and the combined file.



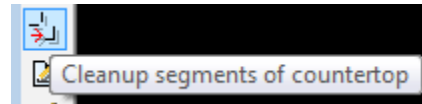


The location of the measuring tool for each file is shown with a circle with a cross hair.



Cleanup Command

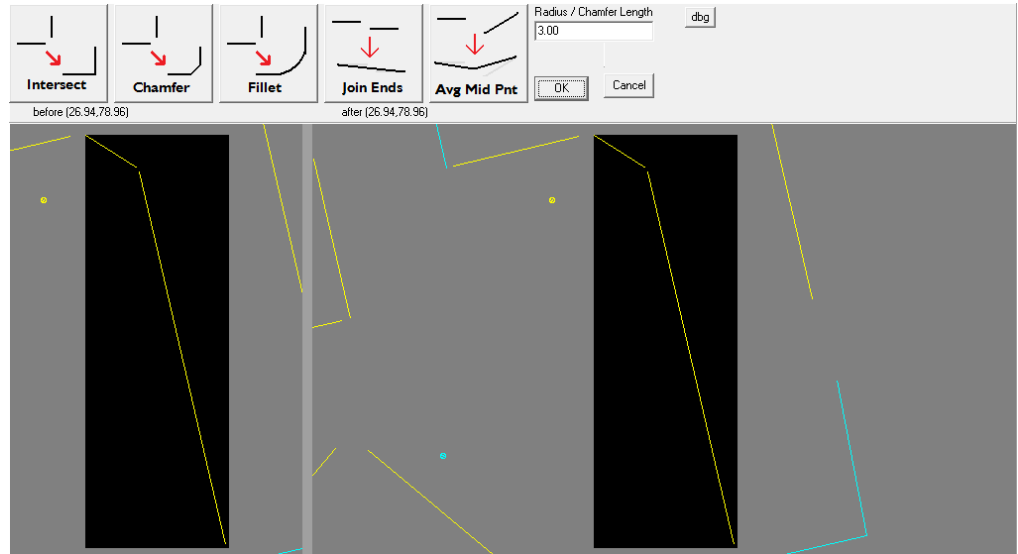
You can use the interactive Cleanup command to fix up the end points of the imported file. To use the cleanup tool, first click on the cleanup tool. Note: You do not need to have a two-part file to use the cleanup tool.



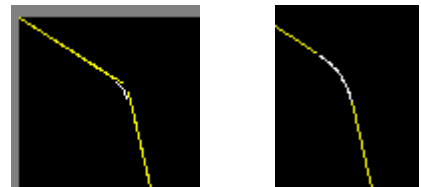
If you are cleaning up a two-part file, first clean up all the lines that are the same color. Then join the different color lines. Click on two adjacent lines on the countertop, and then right click to open the join option dialog.



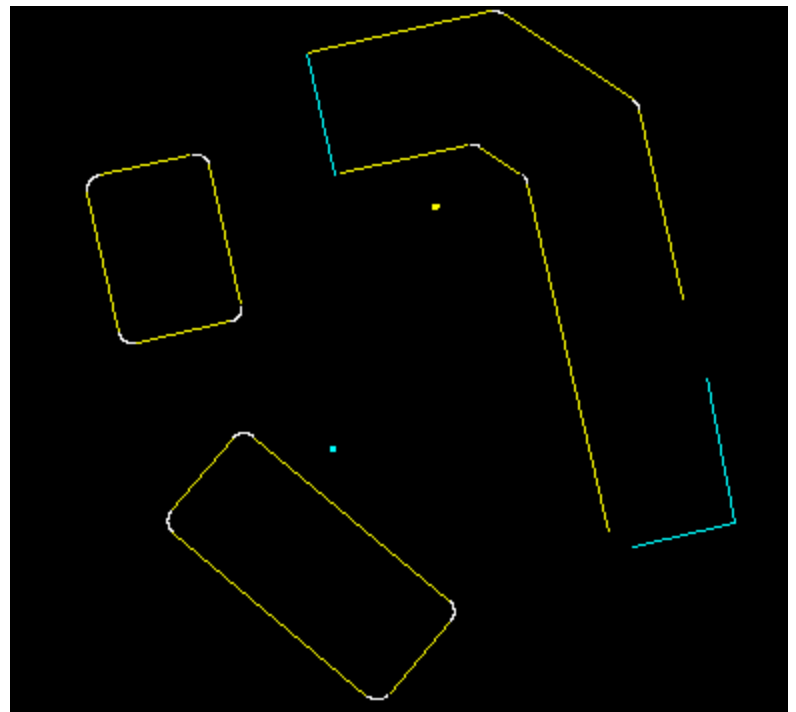
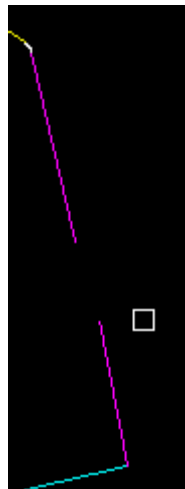
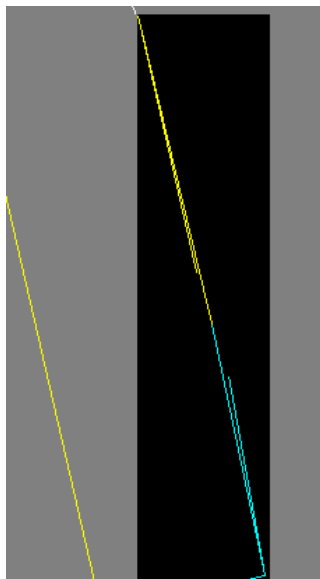
The dialog shows both a before and after image. This is the front edge of the countertop so we will join the two lines with a 3 inch fillet radius. Enter a 3 in the radius box and click on fillet



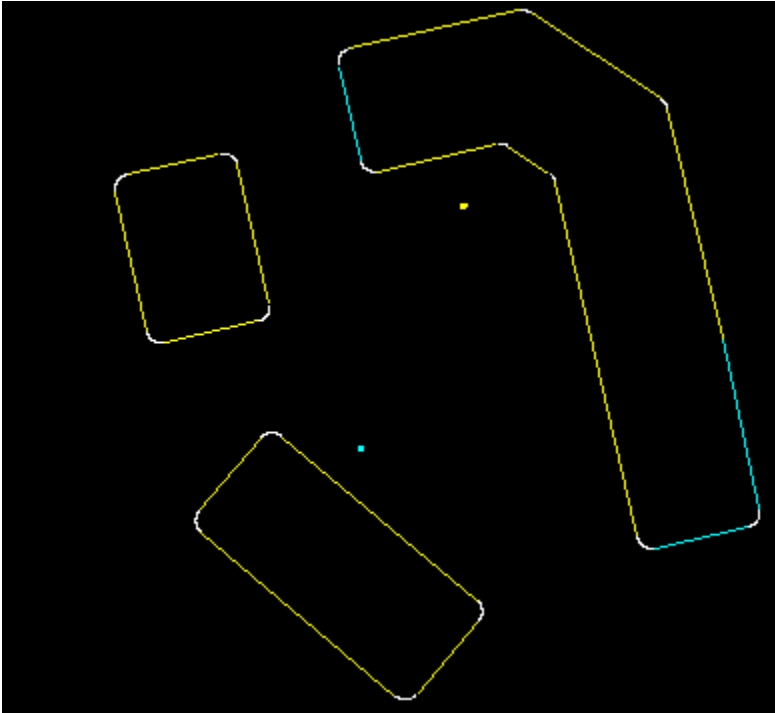
command, The after image then shows both the fillet and the original lines. Next right click to return to drawing screen or select a different join option, or cancel to undo the change. The first image at right show both old and new lines, The 2nd show the drawing window after right clicking. You can use the mouse wheel to zoom in and out to see the context of the change area.



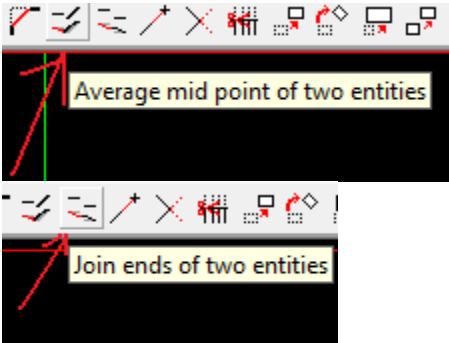
Next repeat the command for each pair of lines that are the same color. Now we pick the two back lines and use the Avg Mid Point command to place a new end point half way between the two points.



After combining each of the pairs of lines around each of the countertop shapes the countertop is ready to send to the tile and print command. Each countertop section should be sent to the tile program separately.




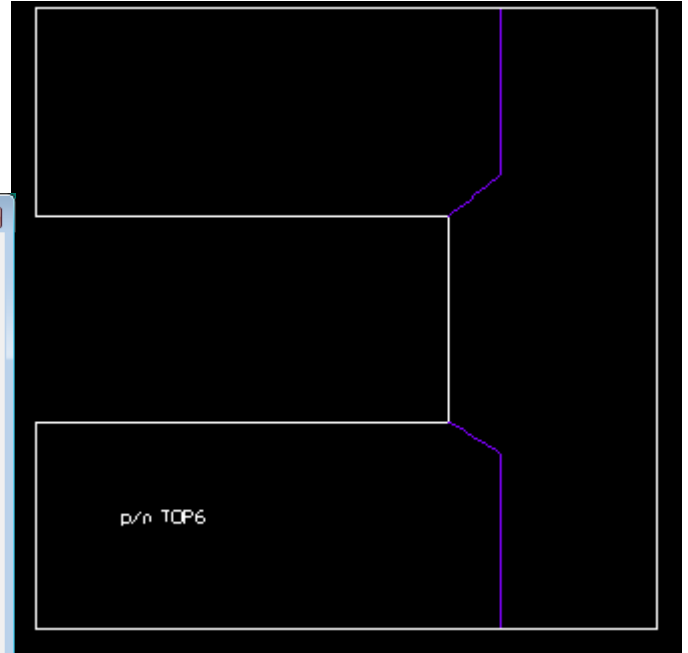
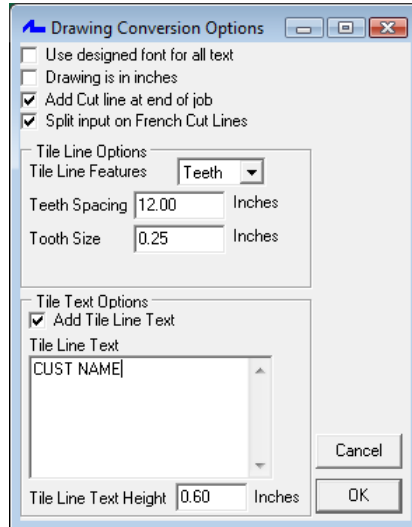
If you prefer to not use the interactive cleanup two new tools have been added to the toolbar.



These two new commands allow access to the two new join commands that are in the cleanup interactive dialog.

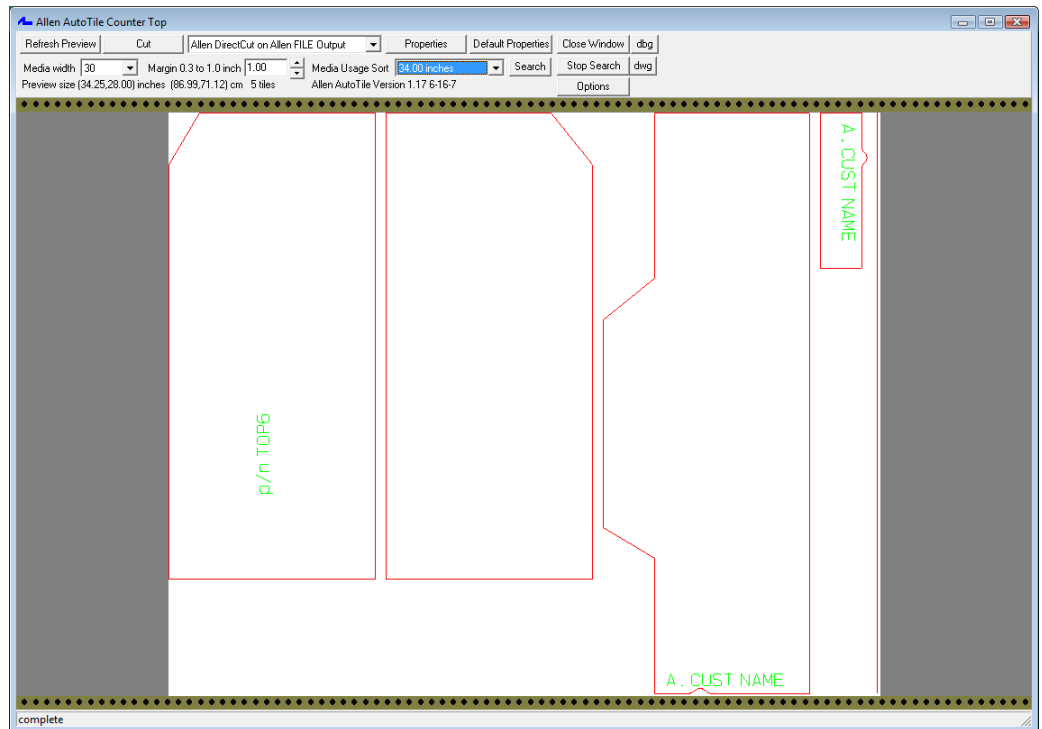
Manual European Line Command

The Draw european line tool  tells the tile program you want a tile line to appear at the line you draw. Operation of this tool is identical to the use of the Draw Line(s) command. The only difference is that the line is drawn with the european line



type in color #190.

The drawing at right shows a 30" by 30" countertop with two european lines drawn on the countertop. By selecting added test european lines you can reduce material usage for this countertop from 61 to 34 inches. After clicking on tile and print you can select the checkbox for splitting countertop on



europen cut lines. The resultant tiling is shown. The example file with these lines drawn is: top6 european 2.flx

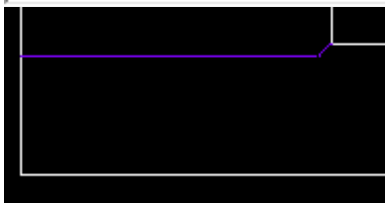


To point: *** Cancel ***

```
User break  
> EUROPEANAUTO  
Select intersection to start line for European Auto Line  
Select back of counter for end of line for European Auto Line
```

Then:


```
found 2 objects for cleanup  
Enter offset distance (default : 2 ):
```

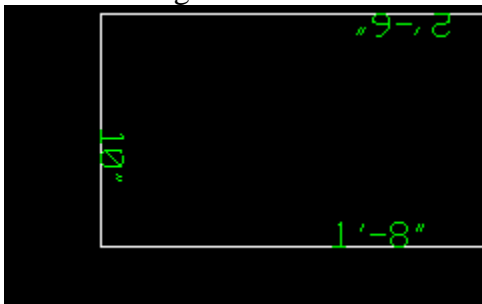


A European line is then drawn from the intersection to the selected back edge of the countertop.

AllenAutoDim




Clicking on the  icon the program will toggle on/off dimension text along each line of the drawing.




Build 11 Additional Features


Aligndwg

Clicking on the  icon allows selected a line on the drawing which you want to align the drawing with the screen. The program finds the angle of the line you select and then rotates the entire drawing so that the selected line is vertical on the screen.



Backsplash

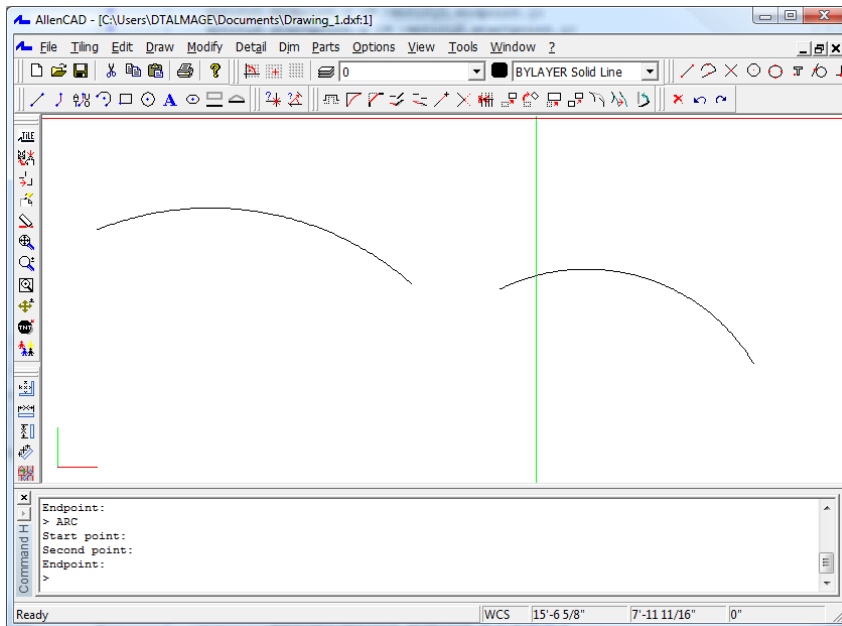
Clicking on the  icon draws a rectangle offset from a line to create a backsplash rectangle. To create a backsplash you need a line on your drawing. Select the two end points of the line and then the side of the line you want the backsplash drawn. A dialog is then presented with three options. Height is the size of the backsplash created as it fits from top to bottom on the wall behind countertop. Offset is the space between countertop on drawing and the backsplash rectangle. This would normally be the width of the saw blade. Full Height adds a “full height backsplash” text string inside rectangle.

Bumpout

Clicking on the  icon allows drawing an arc given two endpoints and a height. After clicking on the bumpout icon a dialog is presented to ask for the height of the arc at the mid point of the selected line. After clicking on OK select the two ends of the line you want to add the bumpout to and then which side of the line you wish to draw the arc.

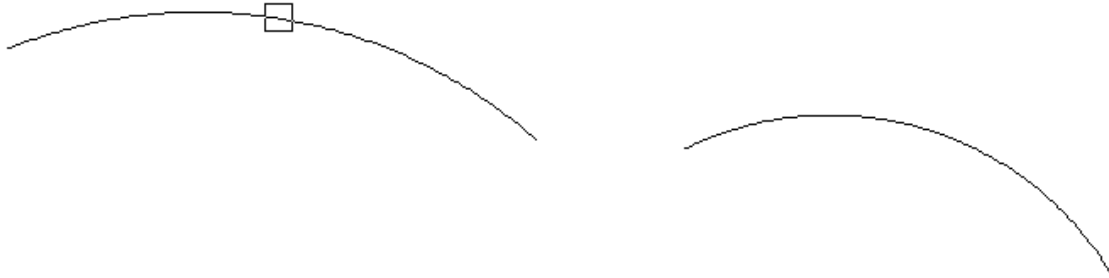
Joinarcs and Trimarcs

The joinarcs  and the trimarcs  command are used to join two arcs such that then new arc joins at a tangent point of the two selected arcs. Start with two arcs.



Click on joinarcs icon 

Select point on arc 1 where you think you want to join the arcs together

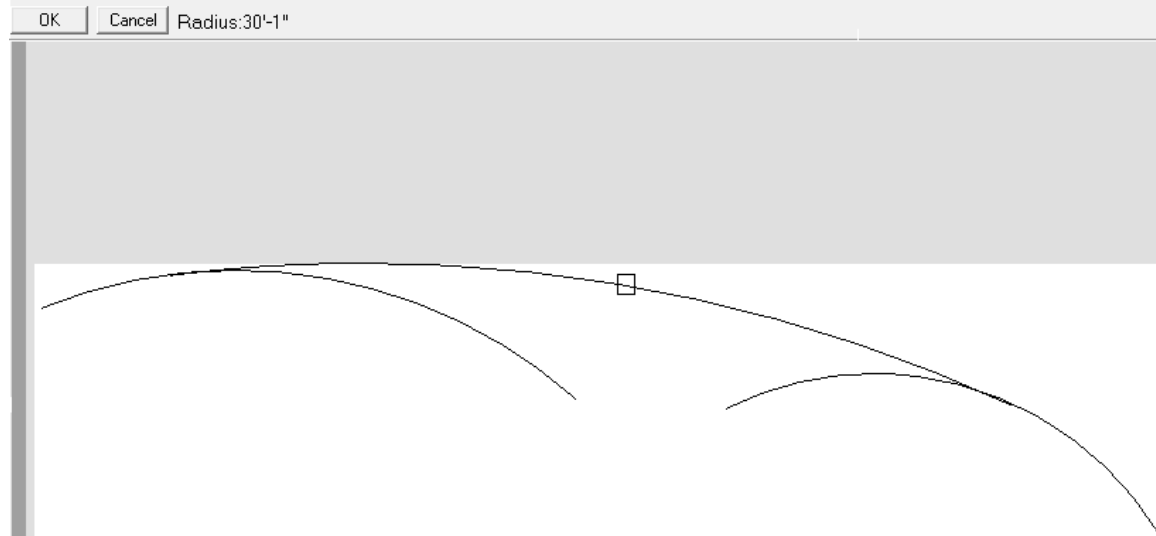


Repeat for arc 2



Place mouse at 3rd point for arc

Click OK or Double click to accept arc. Right click to swap end points.




On tablet machine remove stylus and click on ok button

On machine with mouse double click to accept arc.

If no arc drawn is acceptable, click on cancel button.

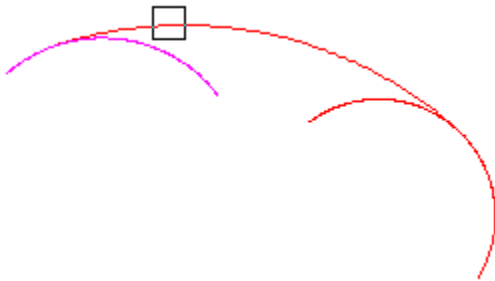
Now we trim the arcs

Select trimarcs icon 

1st select the arc to trim

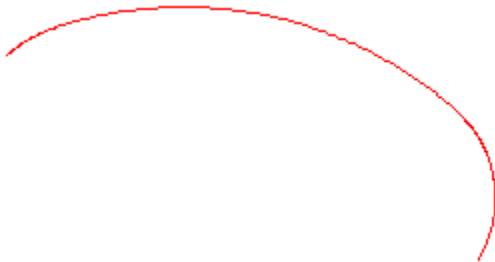


Then select the end point of the new arc.



Repeat for 2nd trim

Click on Done



Arcs are now joined.

Scaleinch / Scalemm

The menu modify -> scaleinch and modify -> scalemm allow converting a drawing from inches to mm or visa versa. Scaleinch command converts drawing by scaling entire drawing by 1/25.4. Scalemm command converts a drawing by scaling entire drawing by 25.4.

Zerozero

The menu modify -> zero zero command allows moving the entire drawing such that the new origin of the drawing is at the point selected.

Appendix

Combine option settings for different combine tools

Combine settings for prototype combine tool.

The dialog box 'Combine Drawing Target Setup' has a 'Target Diameter' field set to 0.198. It contains three points with their coordinates and distances between them:

Point	X coordinate	Y coordinate	Distance
Point 1	0	0	19.95
Point 2	19.95	0	15.140574625819194
Point 3	6.68	7.29	9.8876943722993382

Buttons: Cancel, OK

combine settings for join from point 1 and 2 .flx test

The dialog box 'Combine Drawing Target Setup' has a 'Target Diameter' field set to 0.198. It contains three points with their coordinates and distances between them:

Point	X coordinate	Y coordinate	Distance
Point 1	0	0	3
Point 2	0	3	5
Point 3	4	0	4

Buttons: Cancel, OK

production combine tool settings

The dialog box 'Combine Drawing Target Setup' has a 'Target Diameter' field set to 0.375. It contains three points with their coordinates and distances between them:

Point	X coordinate	Y coordinate	Distance
Point 1	0	0	20
Point 2	20	0	10
Point 3	14	8	16.124515496597098

Auto Dimension Text Size: 1

Buttons: Cancel, OK