GreatCut Plug-In Instruction

The user manual of GreatCut software is available on the i-Craft™ installation DVD.

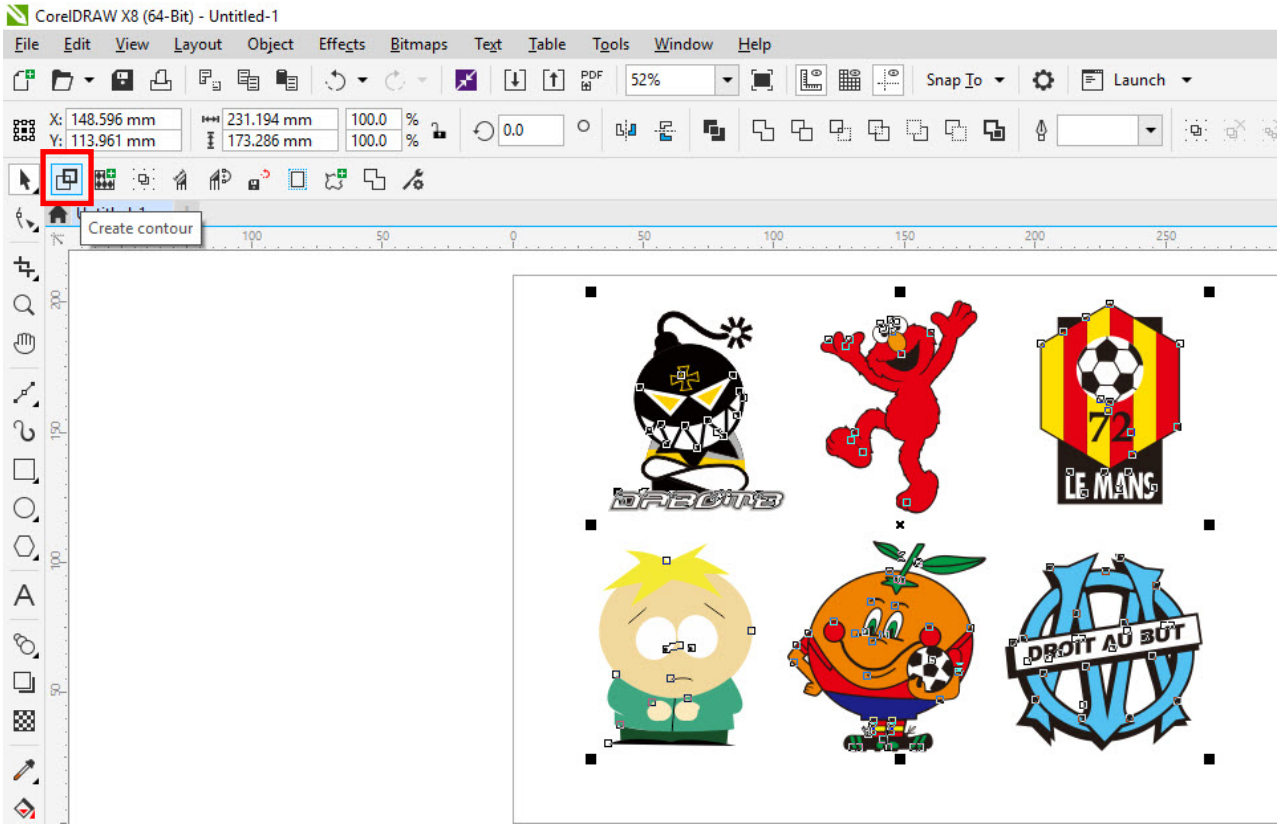
GCC AASII System

Below is a step-by-step instruction of using the AAS function in GreatCut software through CorelDRAW and Adobe Illustrator.

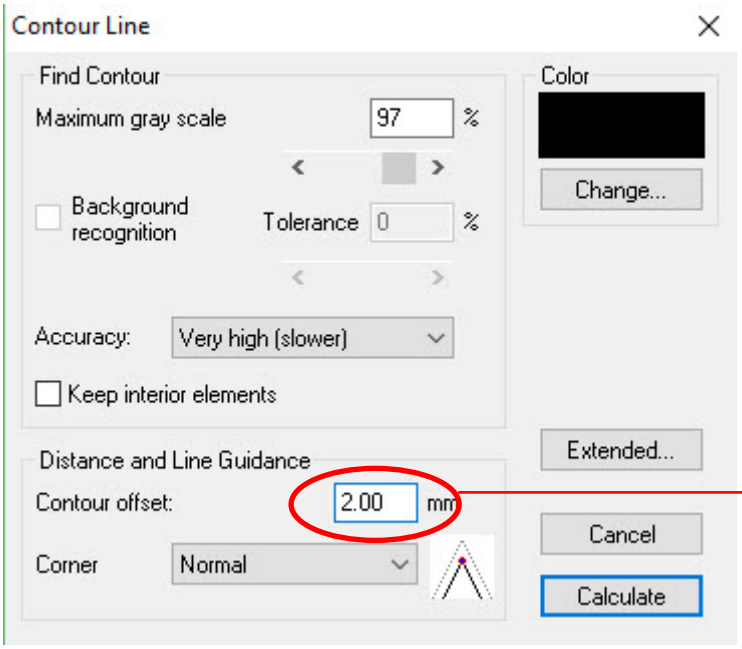
Edit your image in CorelDRAW

4-Point Positioning

Step 1 Create a new file in CorelDRAW and click on the Create contour icon on the GreatCut toolbar (it would appear automatically once CorelDRAW is open).

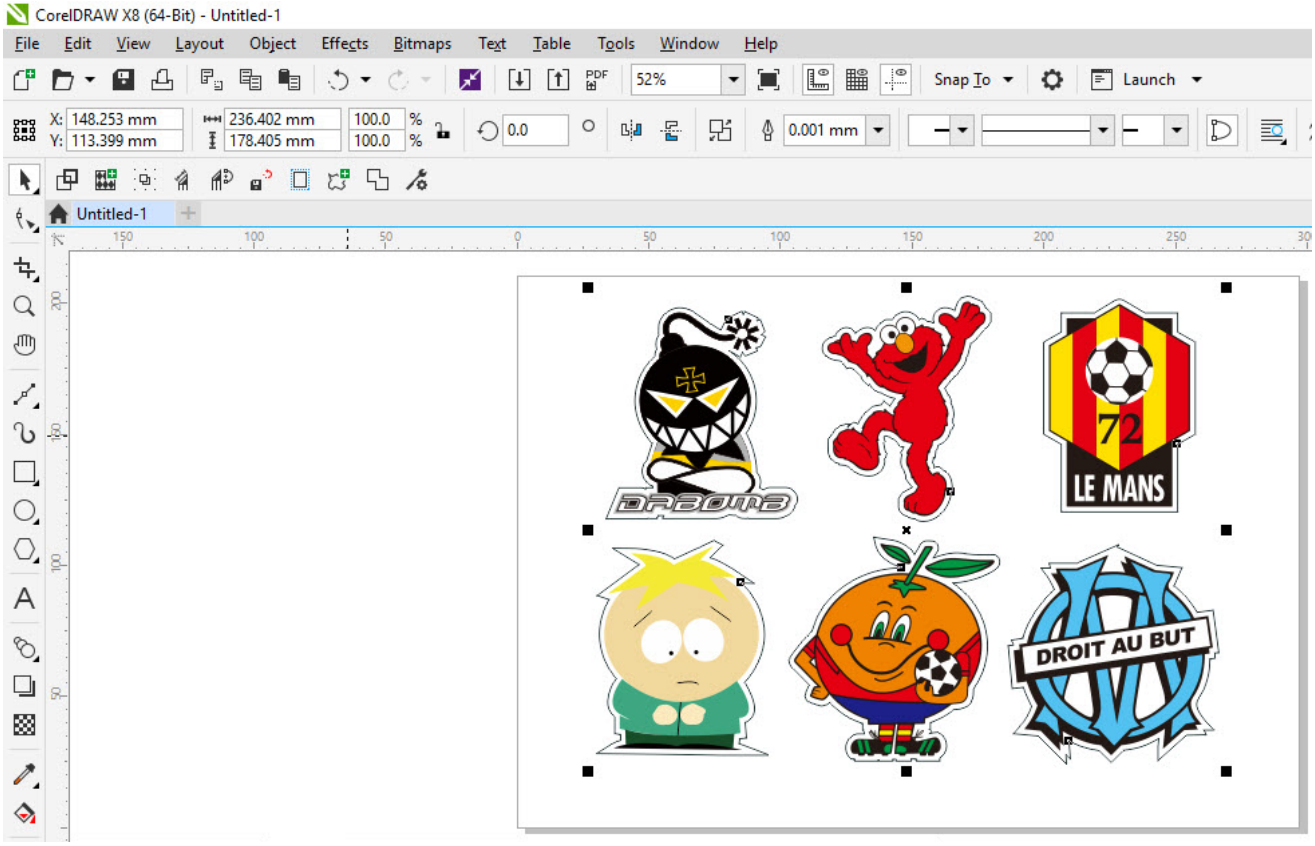


Step 2 Complete contour line settings (including contour offset value) and press Calculate to confirm.



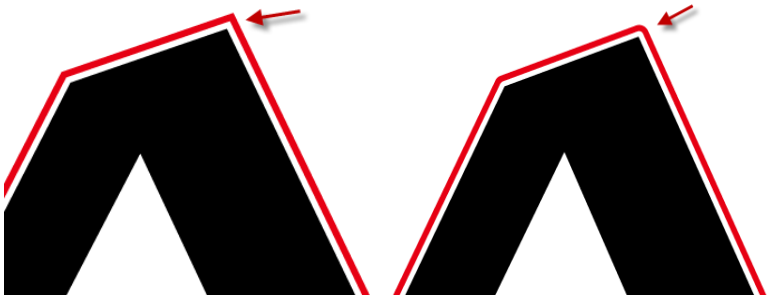
Contour offset is the distance between the object and the contour line.

Contour lines will be added to the images.



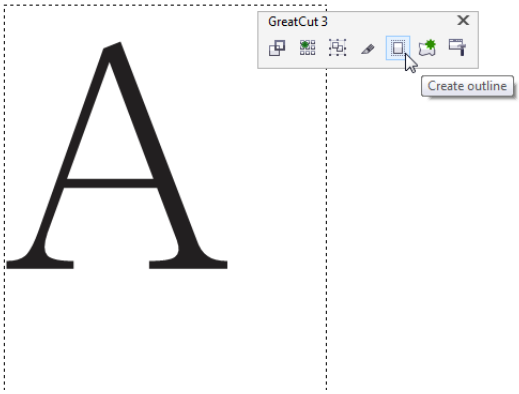
Tips: Vector object to create round outline

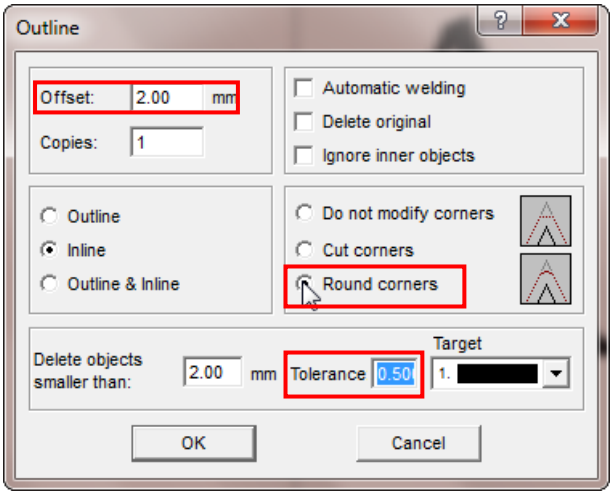
In general for vector objects you will get better results with the outline function. You will see the difference between "Normal" and "Round" in sharp corners. The picture is shown as below:



Normal Round

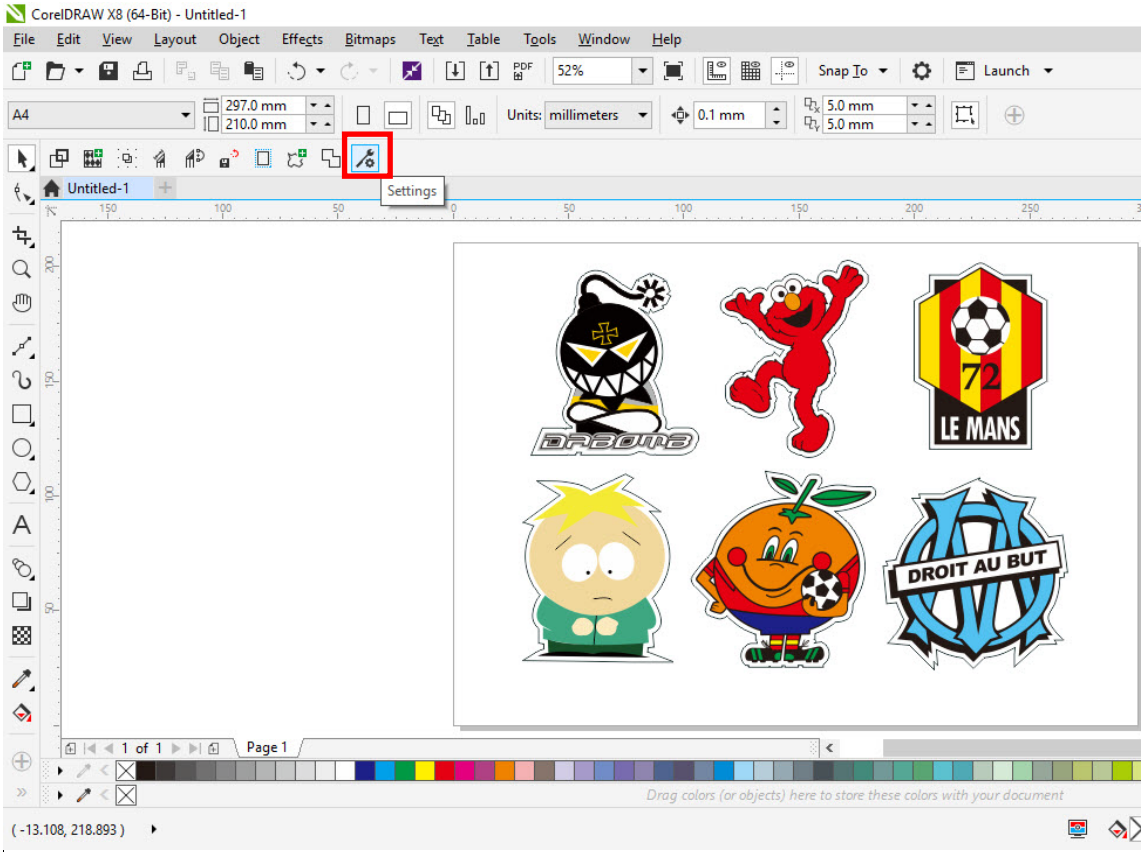
1. Click the “Create outline” to create contours in a freely definable distance around text objects.



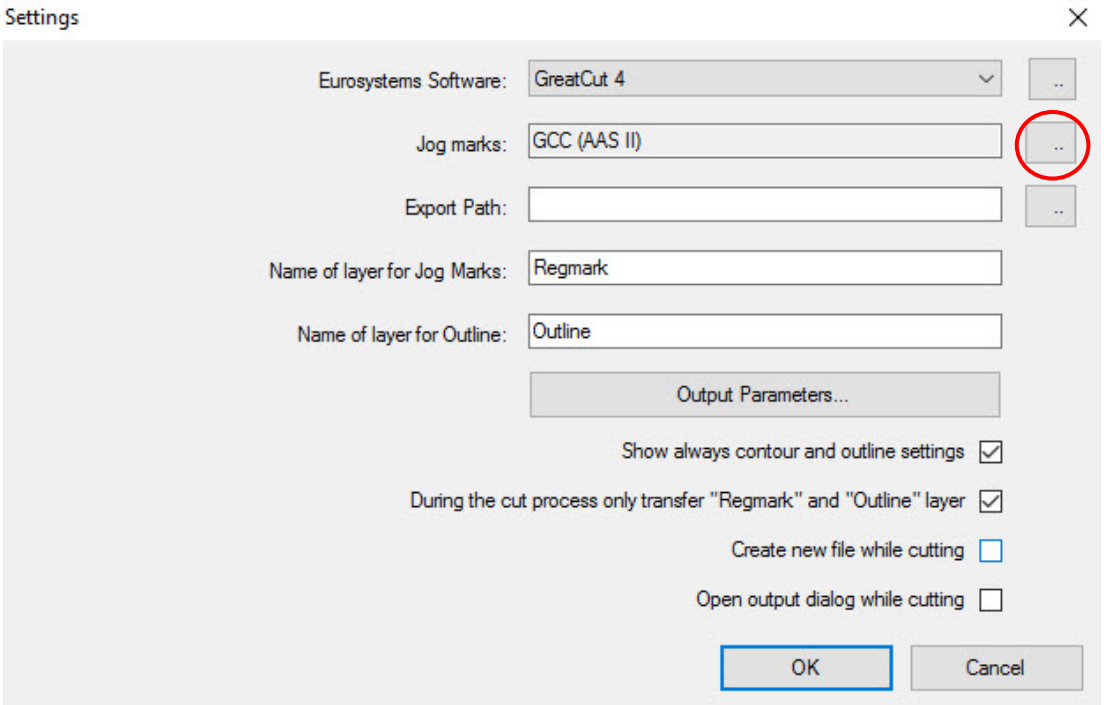


2. Select “Round corners” and set the value of “offset” and “tolerance.”
   Offset is the value for the distance of the inline and outline from the original object. The field **tolerance** indicates in which offset from the corner dot is cut respectively rounded.

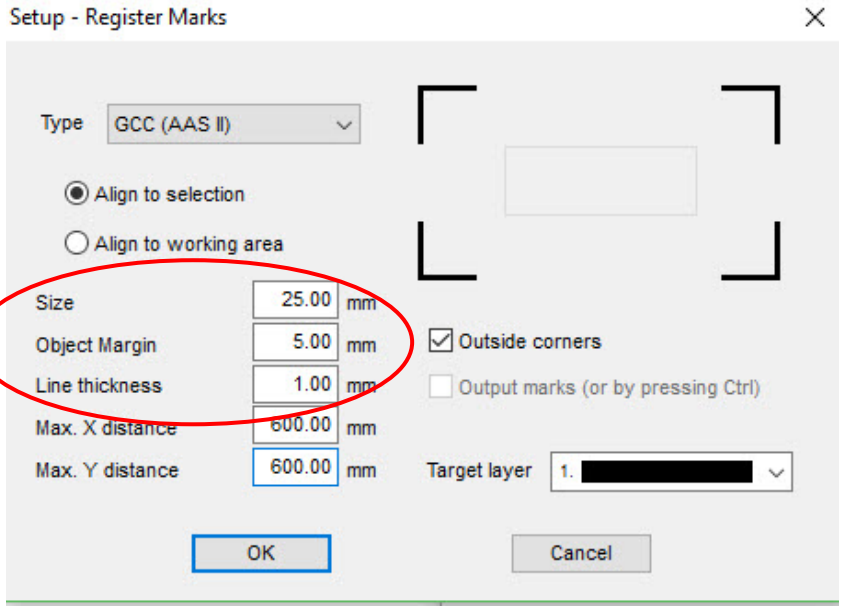
Step 3 Press the Settings icon on the GreatCut toolbar.



Step 4 Press the button on the right of Jog marks.



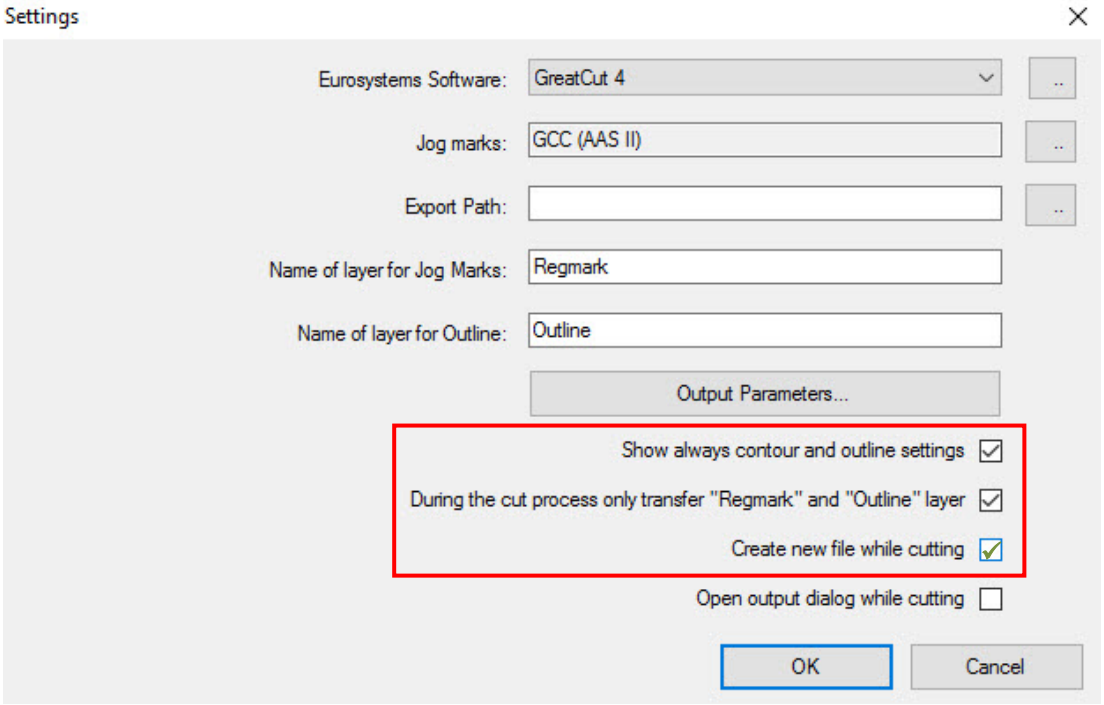
Step 5 Adjust the size, object margin and line thickness of your registration marks in the Setup-Jog Marks window and click OK.



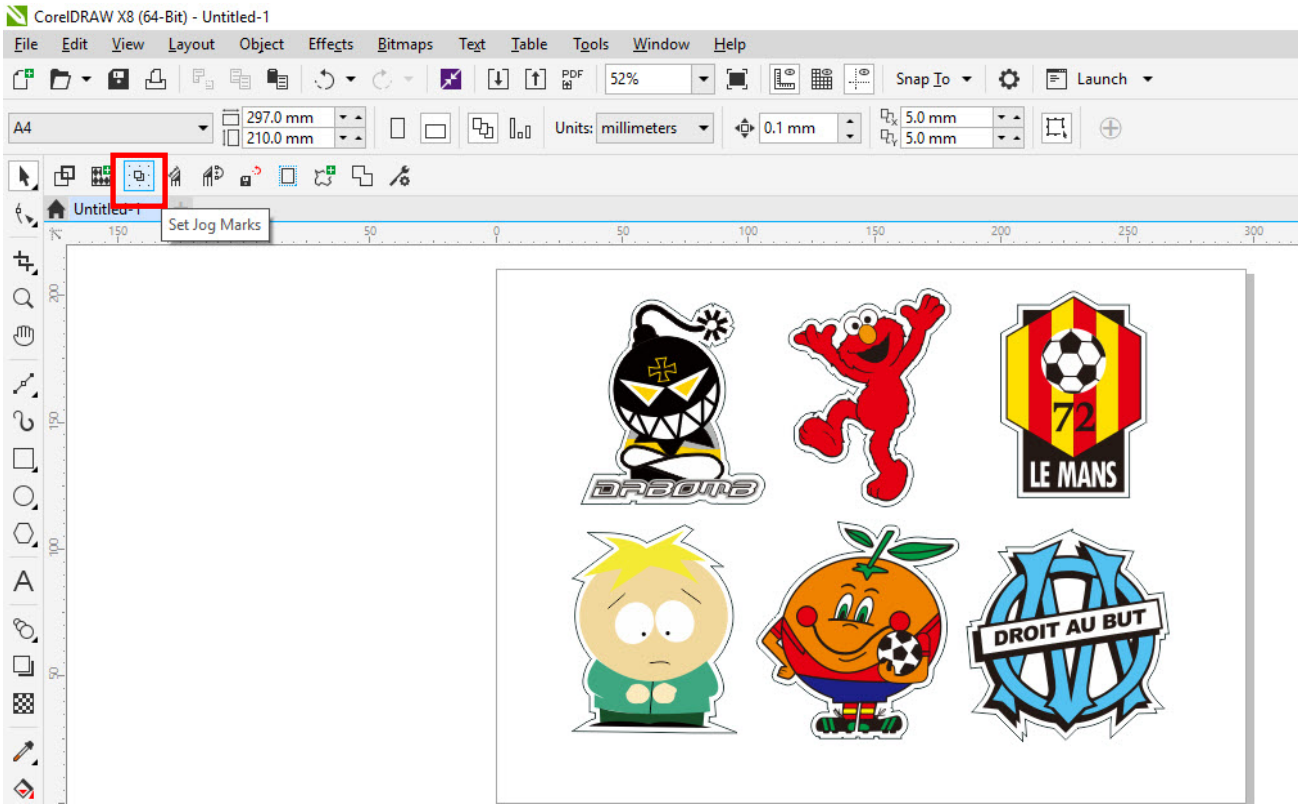
4-Point Positioning

- Size: The length of marks
  → Range: 5mm~50mm
  → Optimized Setting: 25mm
- Object margin: The distance between marks and images
  → Range: 0mm~50mm
  → Optimized Setting: 5mm
- Line thickness: the line thickness of marks
  → Range: 1mm~2mm
  → Optimized Setting: 1mm

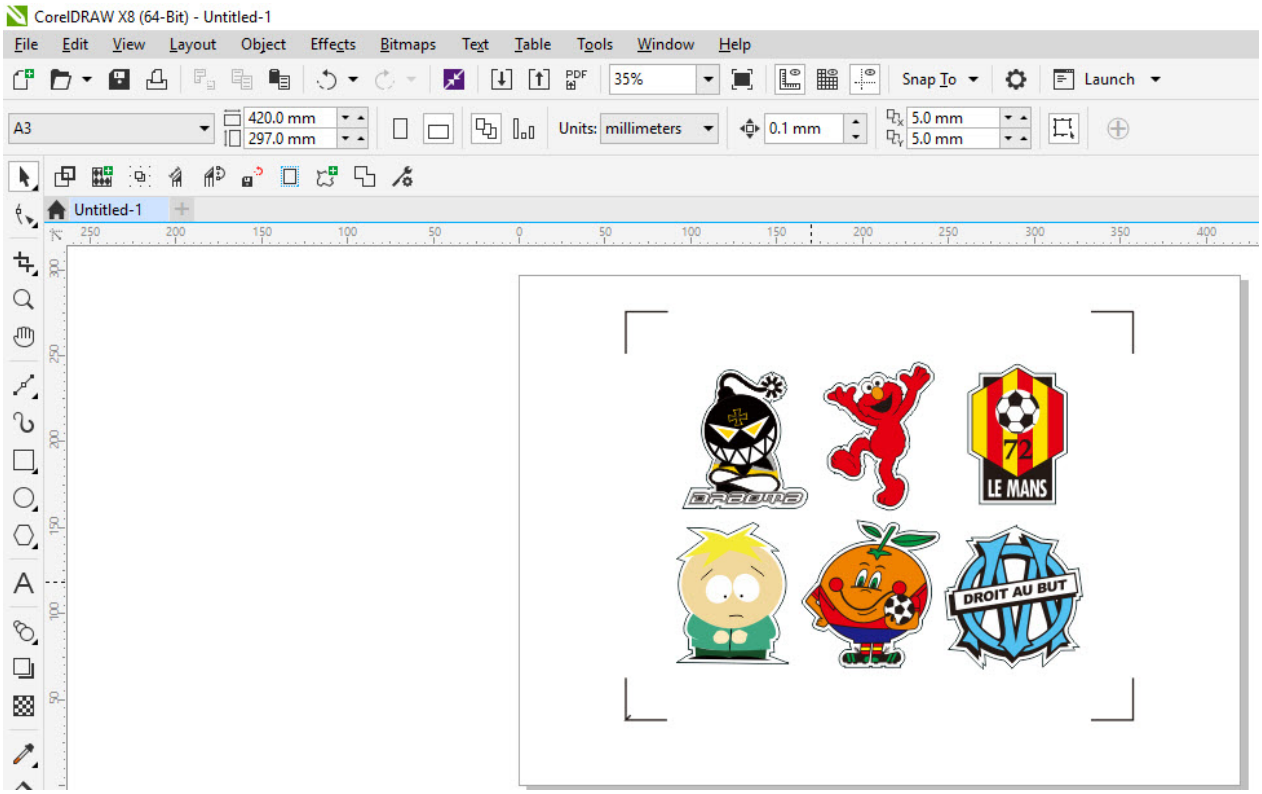
Step 6 Ensure the three items below are selected and click OK.



Step 7 Click the Set Jog Marks icon on the GreatCut toolbar.

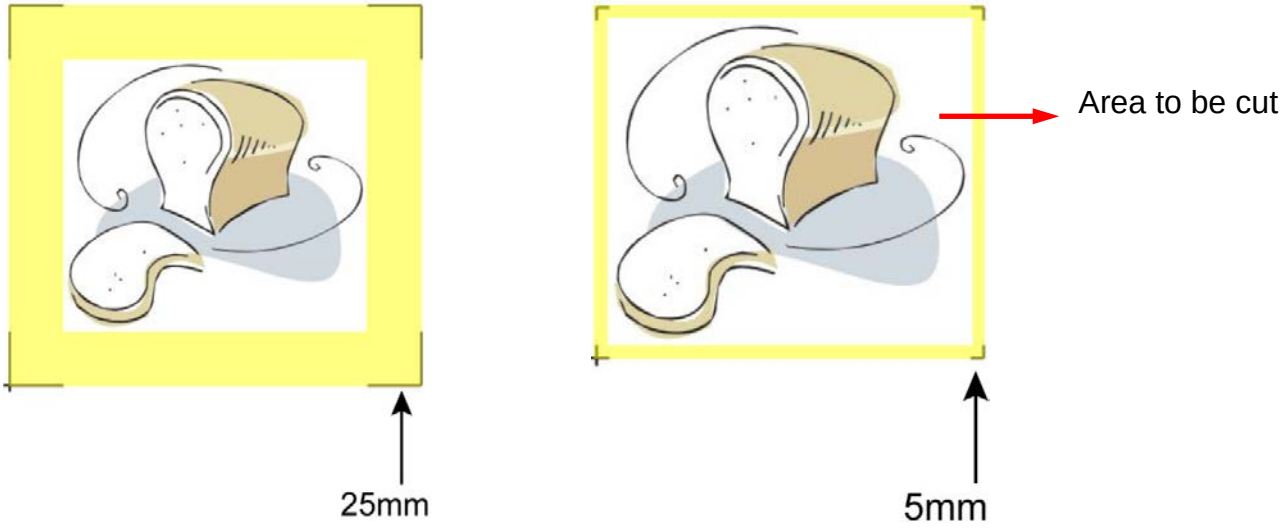


The system will create the 4 marks as shown in the picture below.



Note:

1. To save your materials, in addition to amending object margins, you can also adjust the length of the registration marks (5mm minimum) when you apply the above function(see table 1 for suggestions based on different material sizes). The smaller the size is, the smaller the distance between the object and the registration marks is (see the figures below).



Page size (unit: mm)	Suggested mark length (unit: mm)
A6 (105 x 148)	5
A5 (148 × 210)	8
A4 (210 × 297)	11
A3 (297 × 420)	16
A2 (420 × 594)	23
A1 (594 × 841) and above	25*

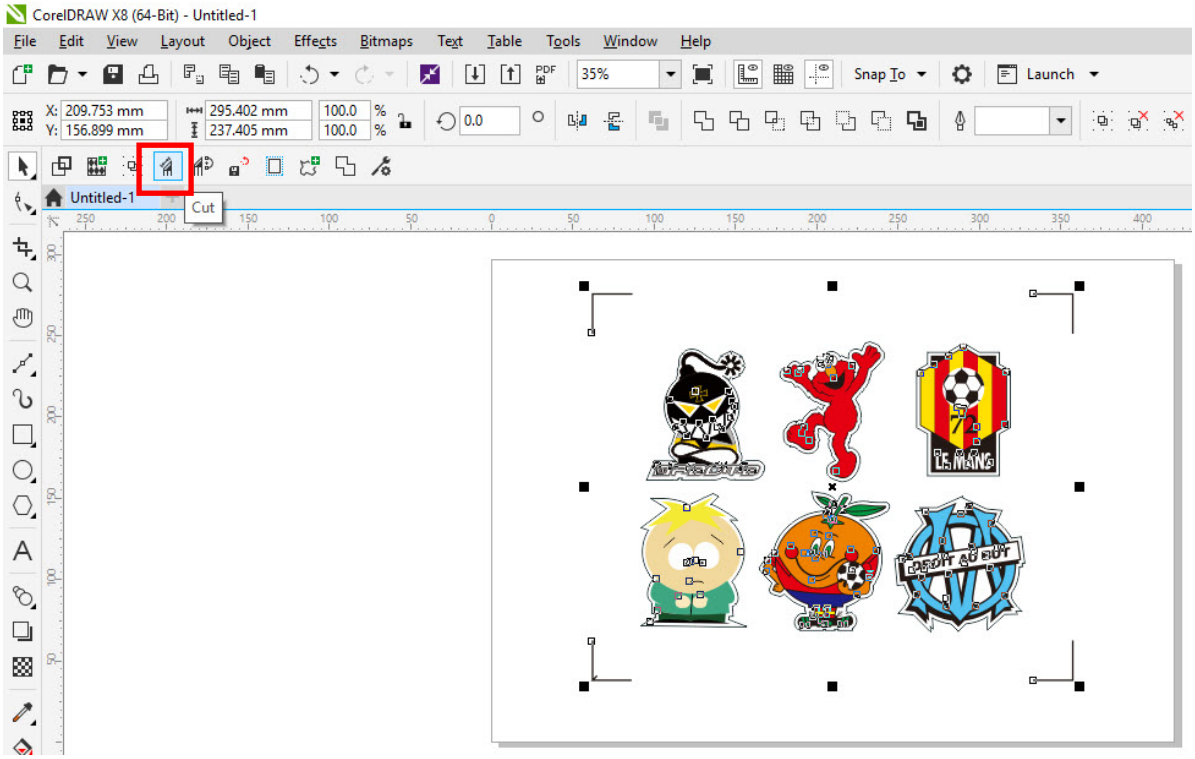
Table 1

*25mm is the suggested value for the registration mark length

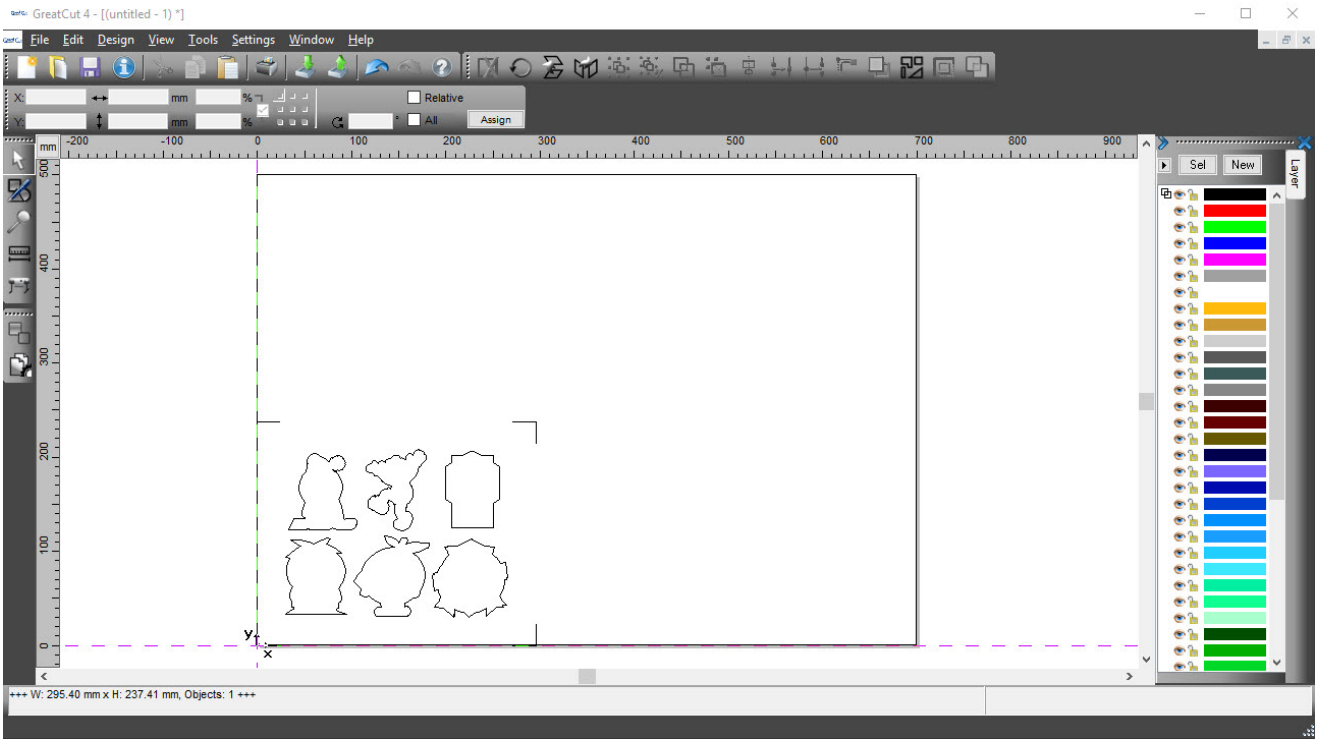
2. The size of the registration marks would affect the accuracy of registration mark detection so please make sure the amount you enter is reasonable.

Output

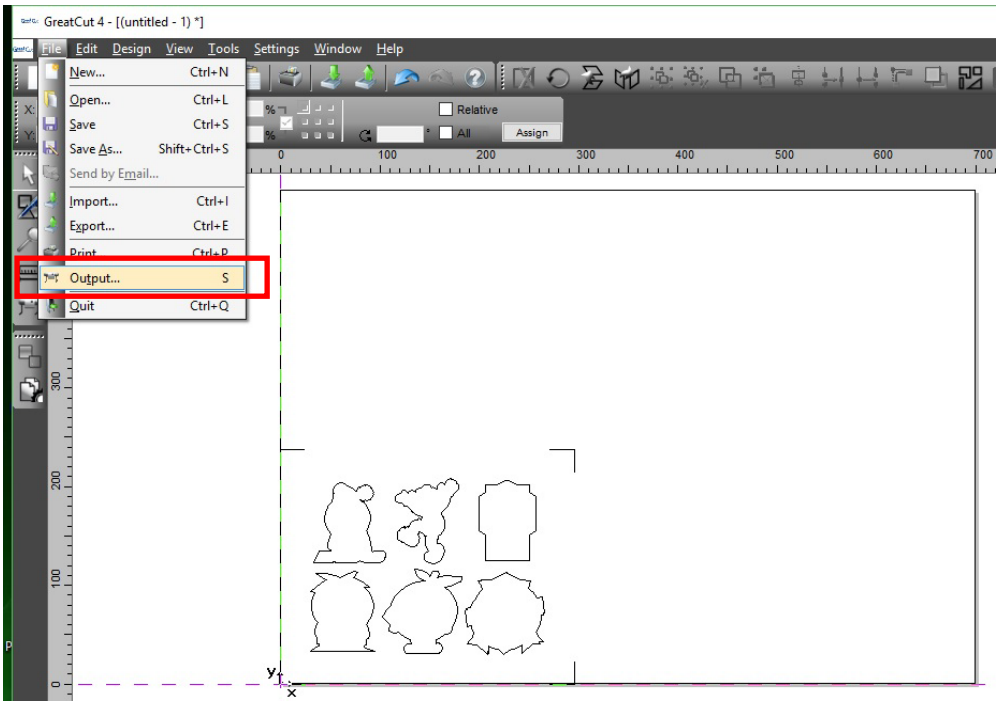
Step 1 Select both the entire object (including registration marks and the contour line) and press the Cut icon on the GreatCut toolbar.



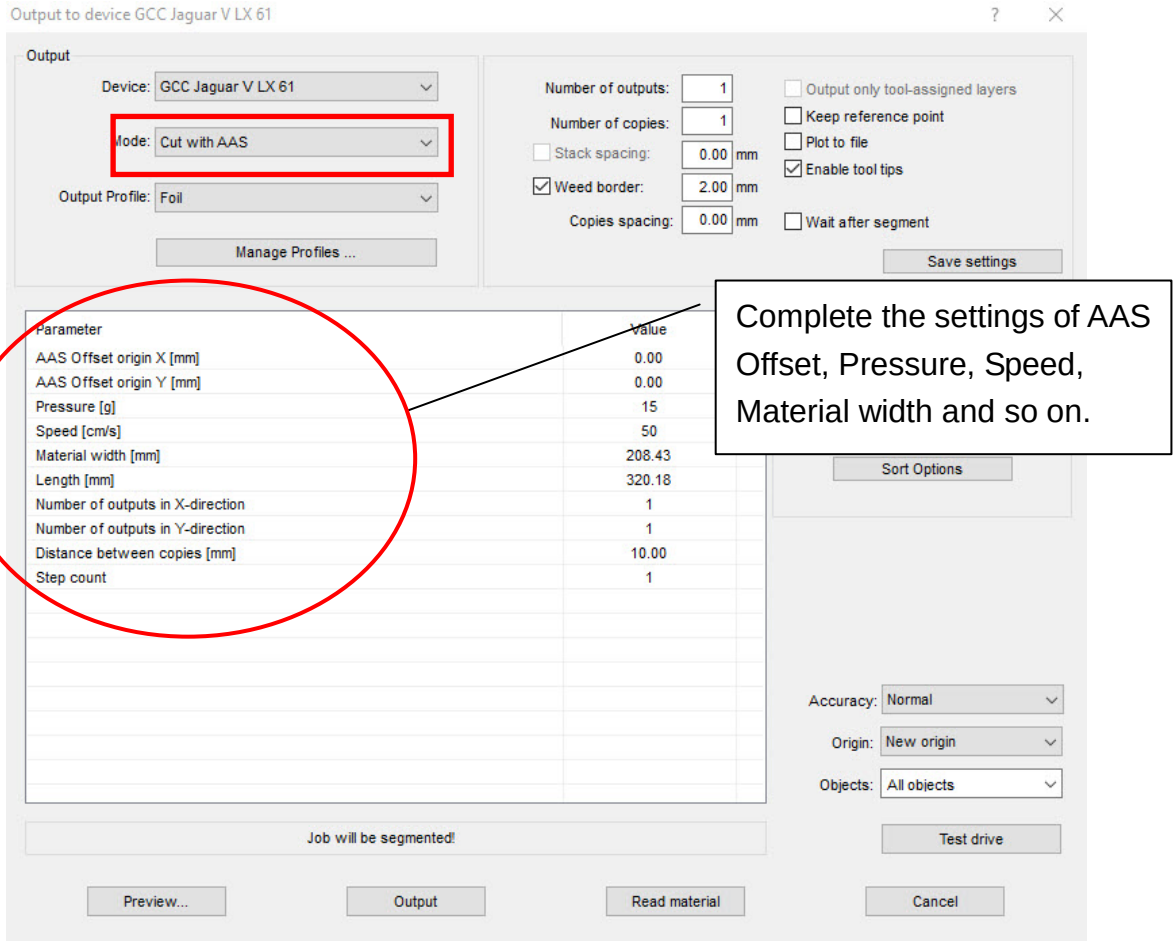
Step 2 The system will activate GreatCut automatically and import the registration marks and contour line to GreatCut.



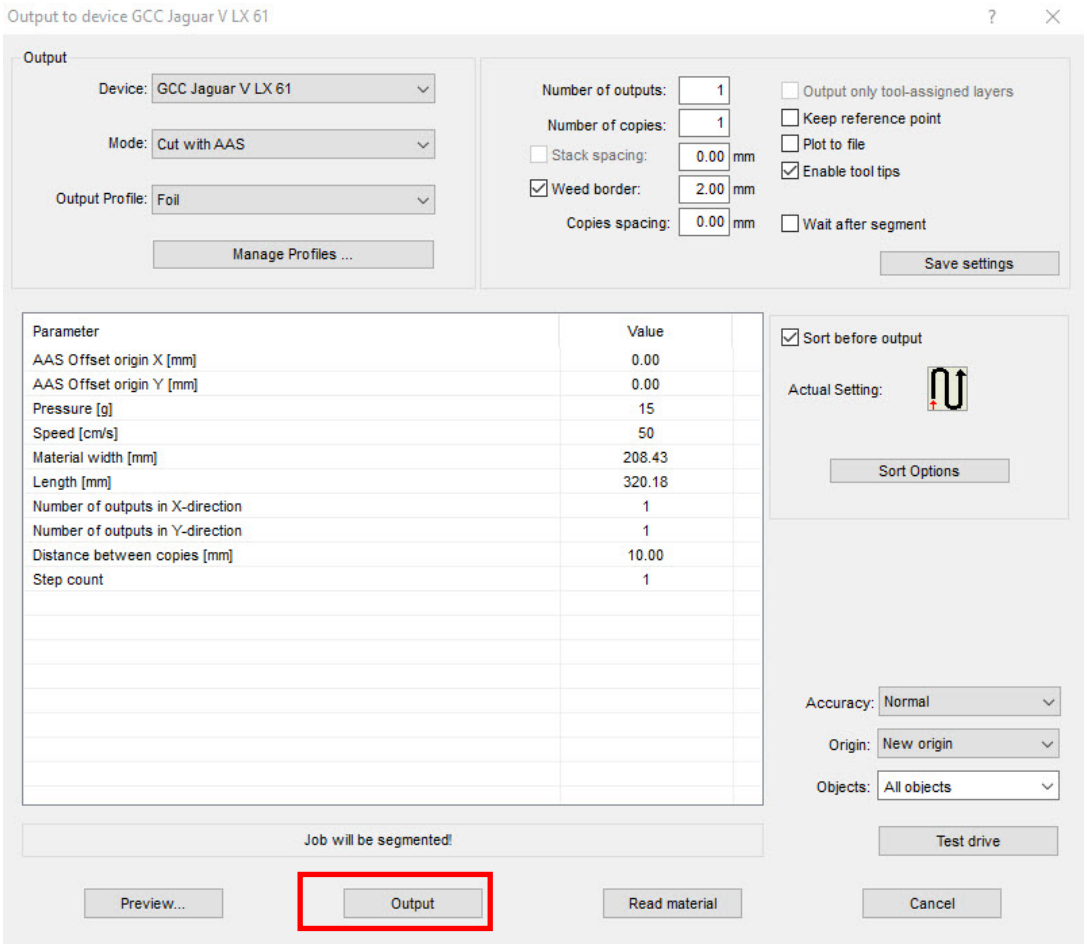
Step 3 Select Output under File.



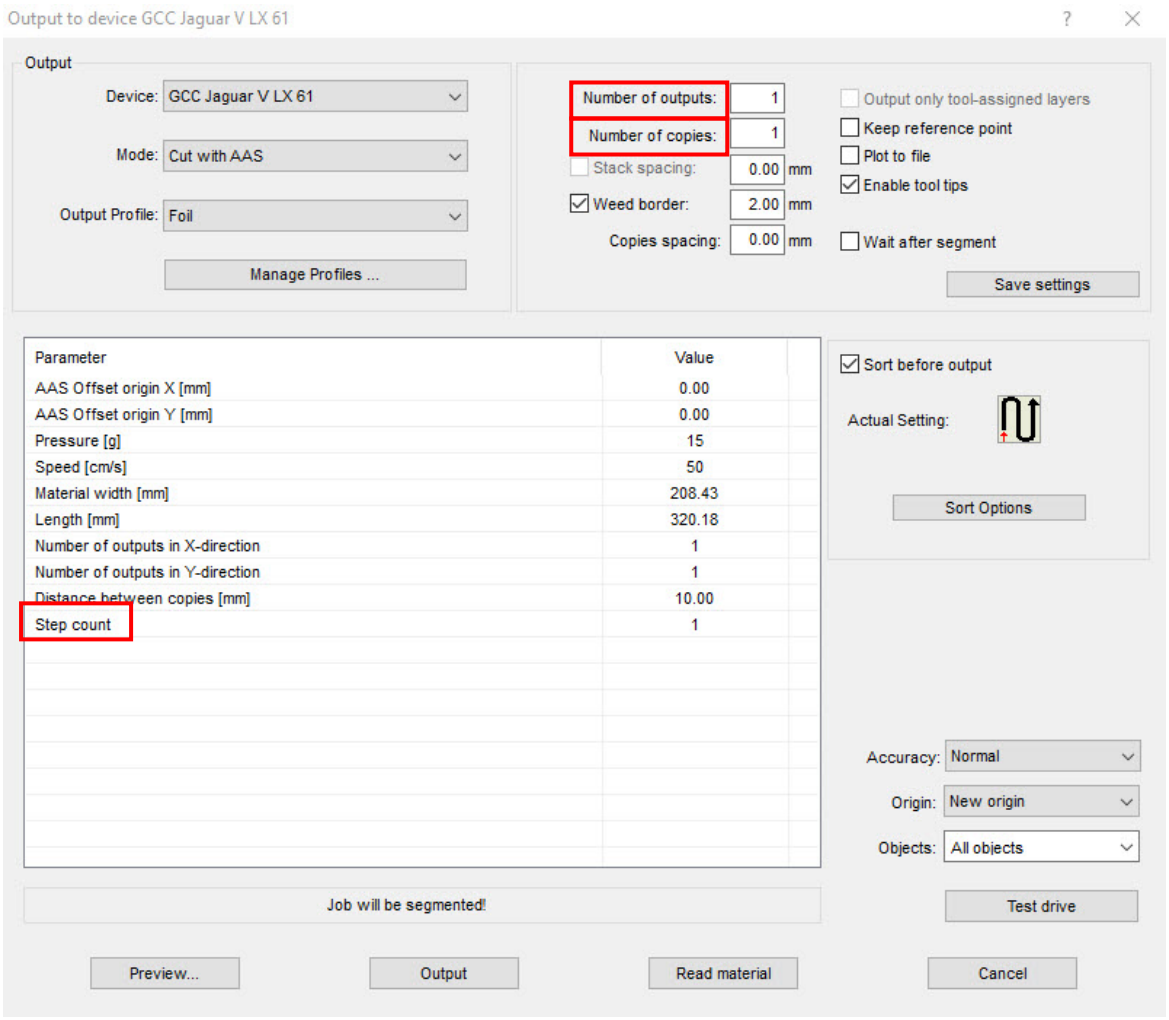
Step 4. Select Cut with AAS in Mode/Tool in the Output to device window.



Step 5 Click output and the object will be sent to GCC Cutting Plotter.



Note: The difference amount Number of outputs, Number of copies, and Step count in the Output window.



1. When Number of outputs is set as 2, the square and the triangle will be cut 1 time and then the square and the triangle will be cut 1 time at next position.

2. When Number of copies is set as 2, the square and the triangle will be cut 2 times at the same position.

3. When Step count is set as 2, the square will be cut 2 times at the same position and then the triangle will be cut will be cut 2 times at the same position.

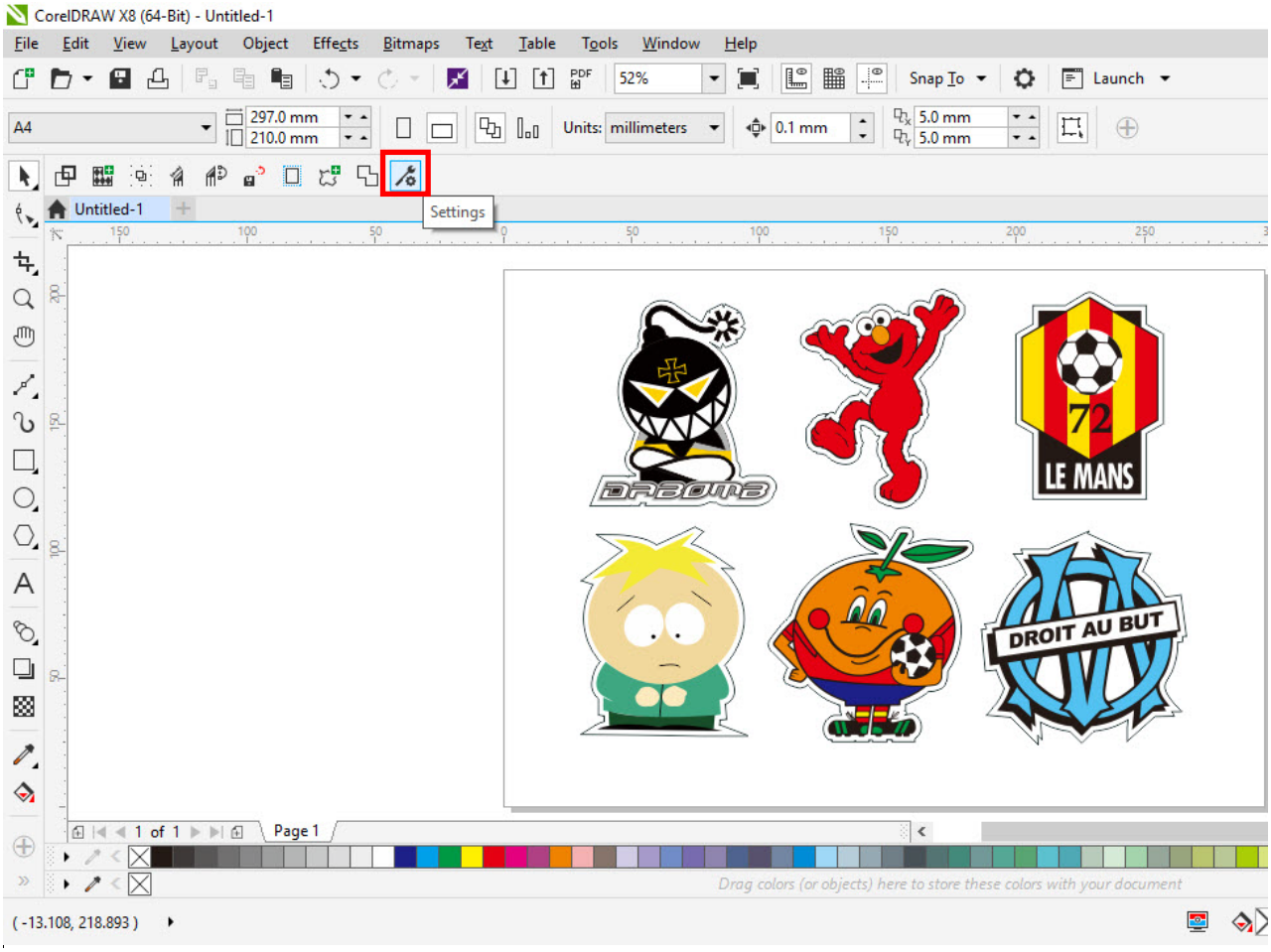
Advanced Settings

Segmental Positioning

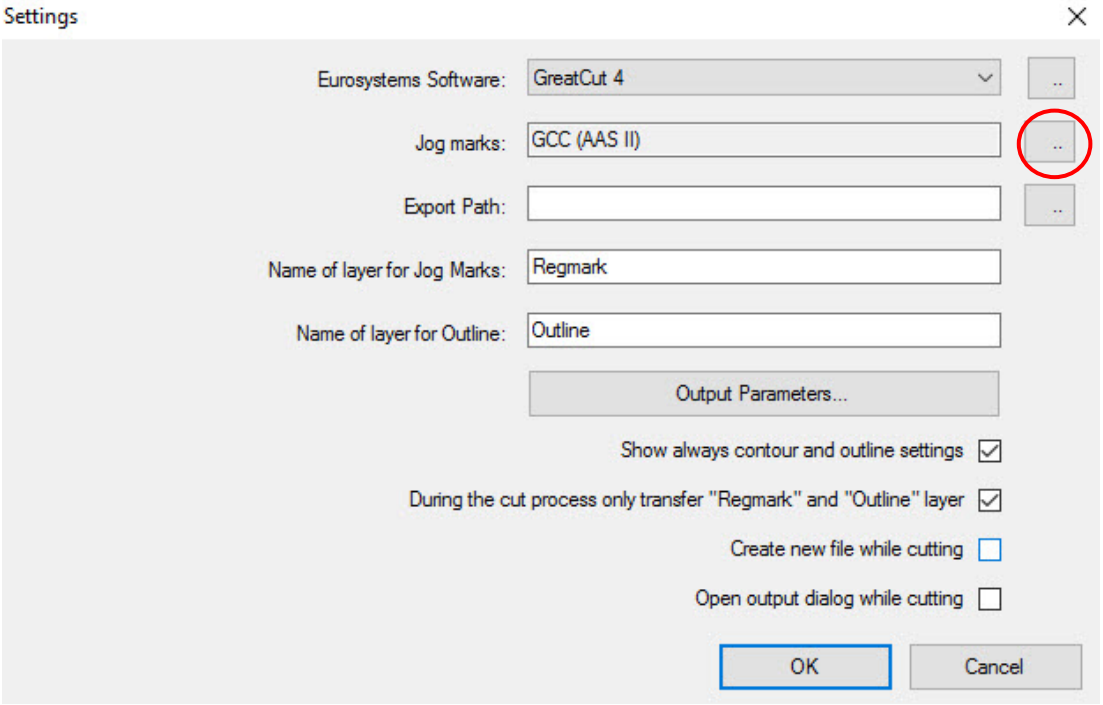
For precise cutting quality, it is suggested to apply “Segmental Positioning” by adjusting the x and y distance when you are working on an extra long or large-size image to increase cutting quality.

Follow the same steps in the **4-Point Positioning** section to complete the contour line setting and registration mark creation procedures. Adjust the size, object margin and line thickness of your registration marks and the space between registration marks by changing X, Y distance in the Setup-Jog Marks window and click OK.

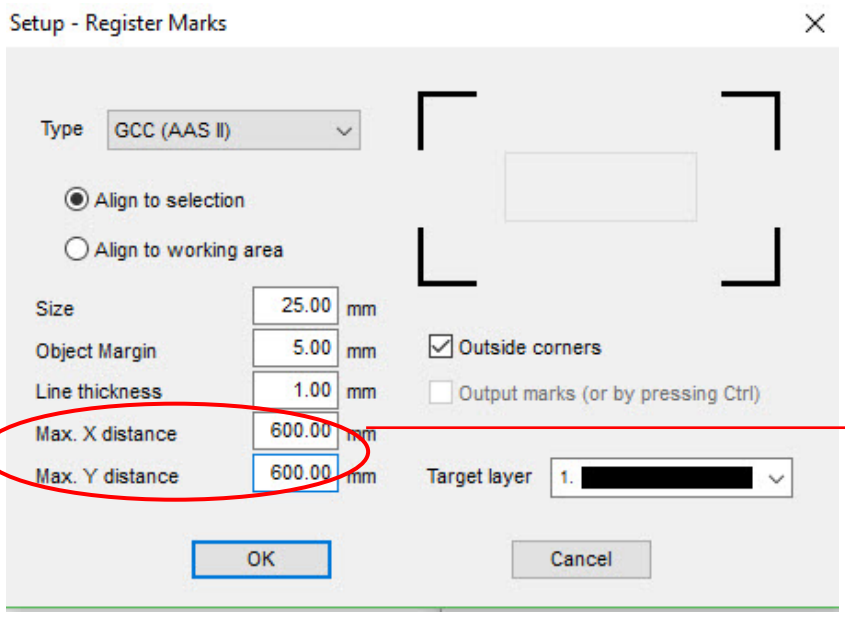
Step 1 Press the Settings icon on the GreatCut toolbar.



Step 2 Press the button on the right of Jog marks.



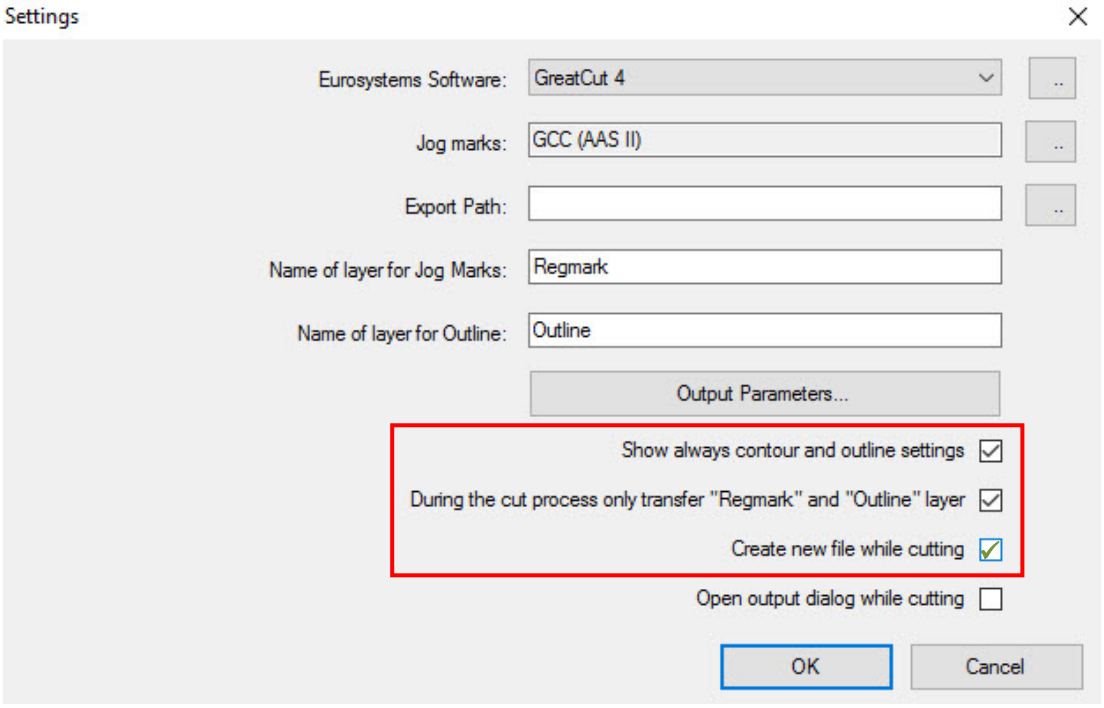
Step 3 Adjust the size, object margin and line thickness of your registration marks in the Setup-Jog Marks window and click OK.



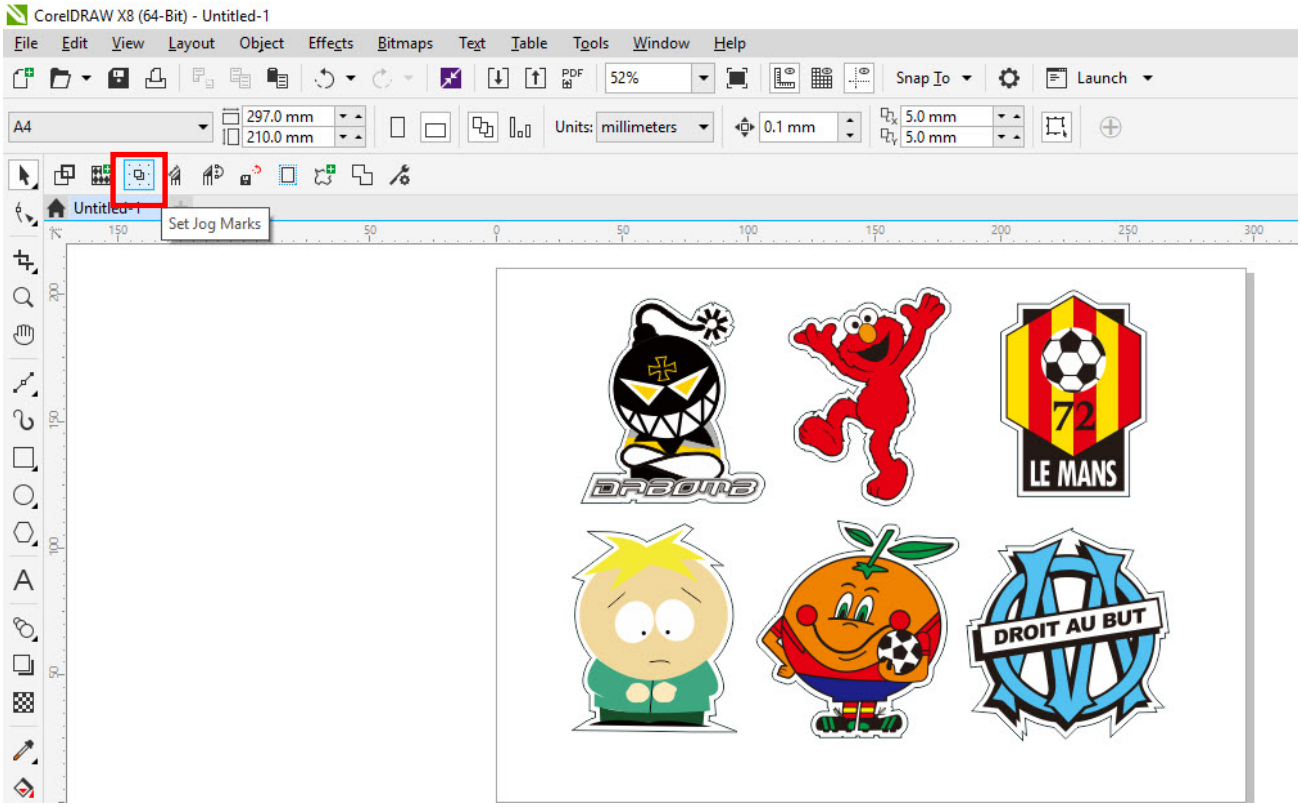
Segmental Positioning

- Max. x Distance: The distance of intermediate position on the X axis
  → Range: 200-500 mm
- Max. y Distance: The distance of intermediate position on the Y axis
  → Range: 200-500 mm

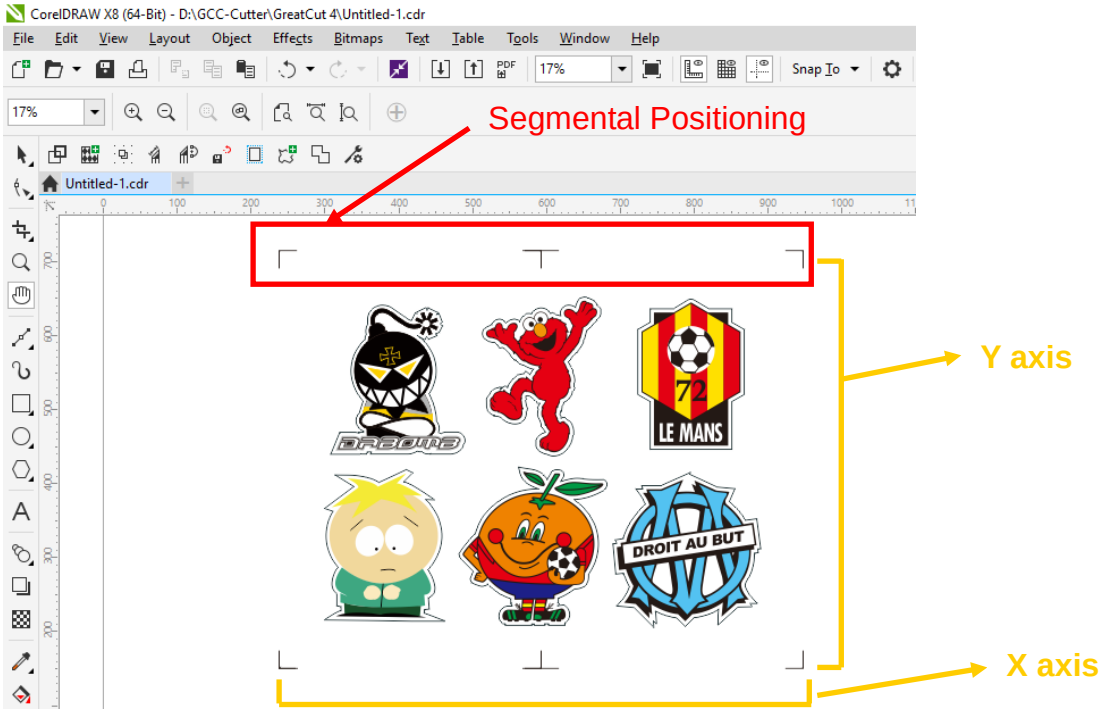
Step 4 Ensure the three items below are selected and click OK.



Step 5 Click the Set Jog Marks icon on the GreatCut toolbar.



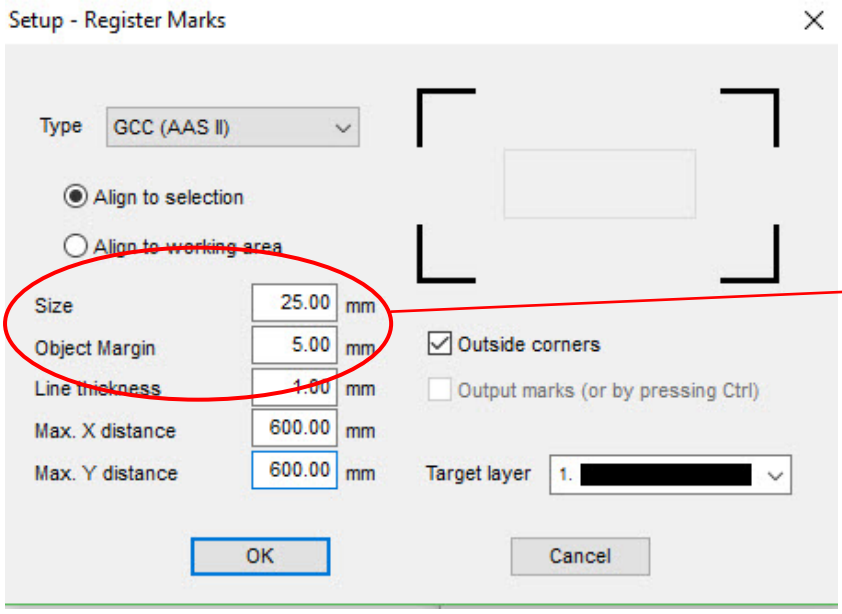
The system will create the marks as shown in the picture below.



Follow the same steps in the **Output** section to output your image to GCC Cutting Plotter.

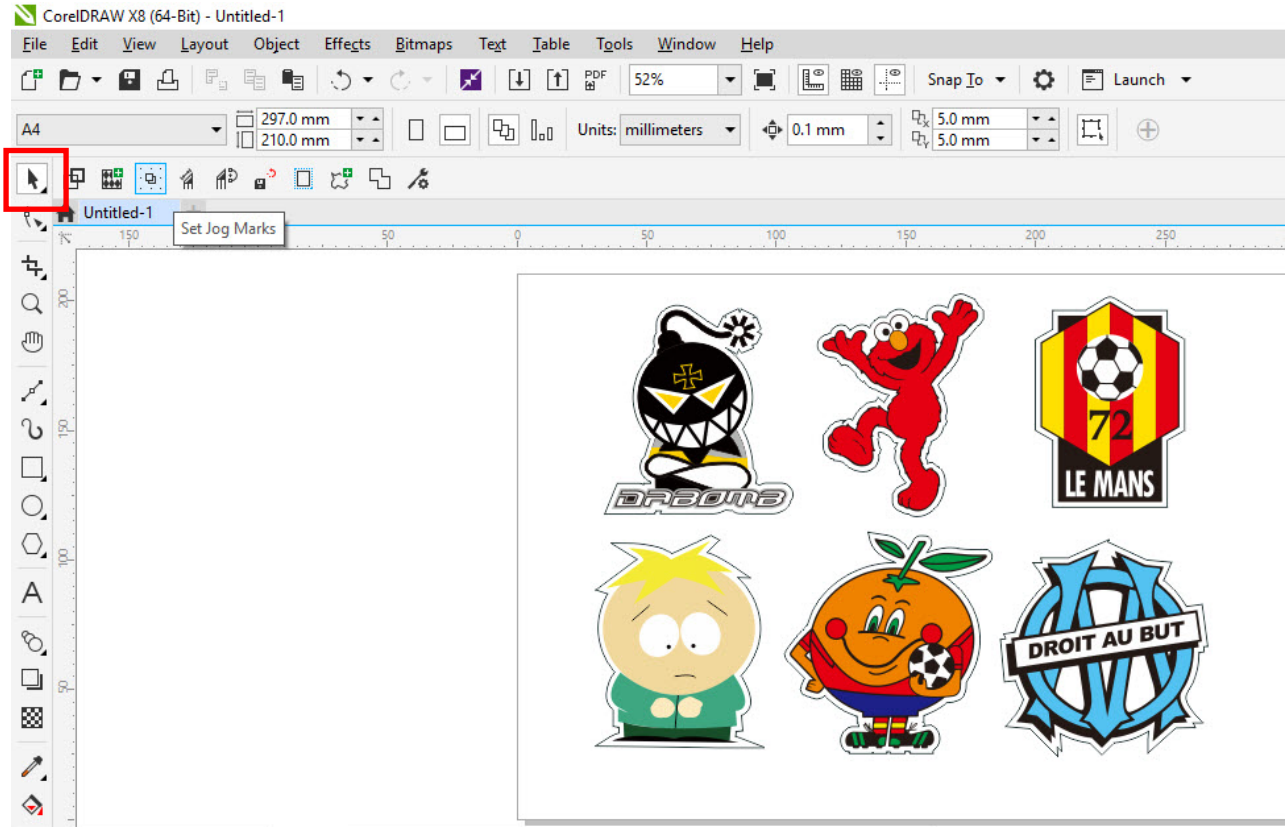
Multi-Copy

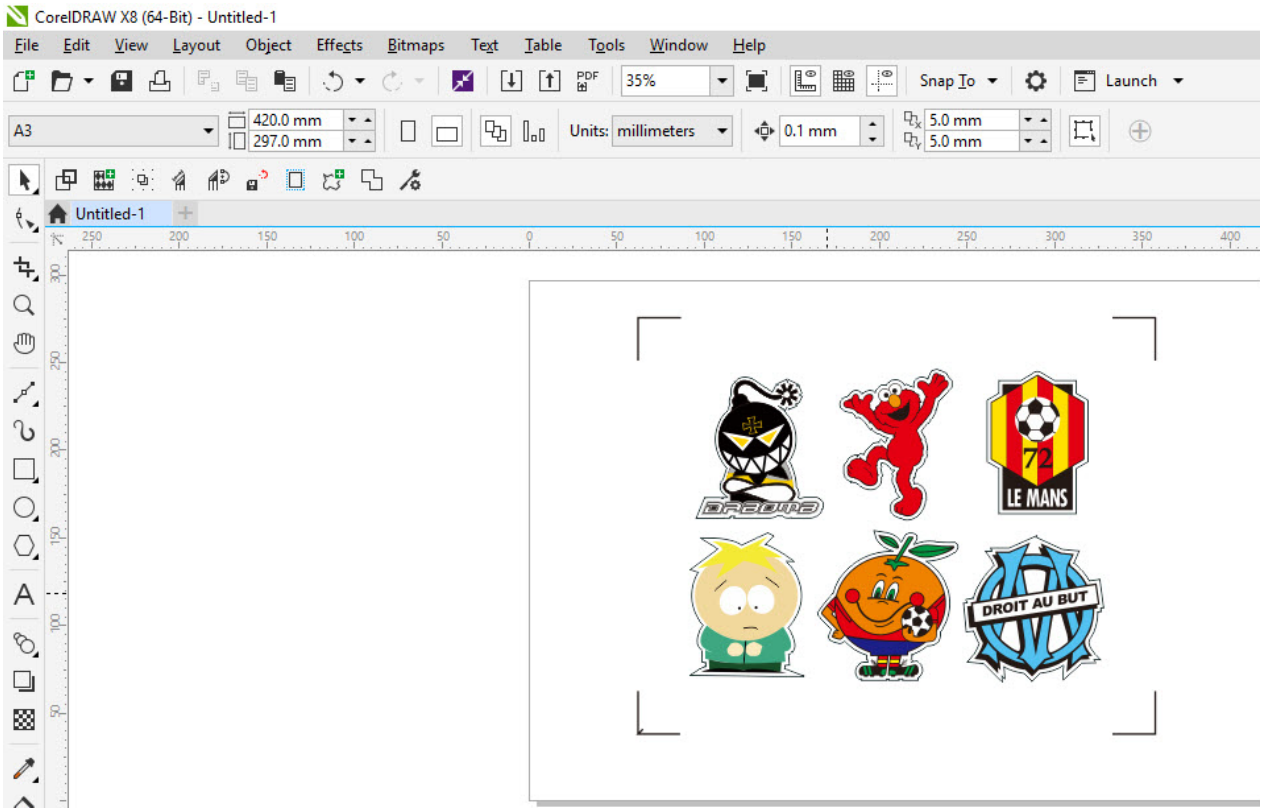
Step 1 Follow the same steps in the **4-Point Positioning** section to complete the contour line setting and registration mark creation procedures.



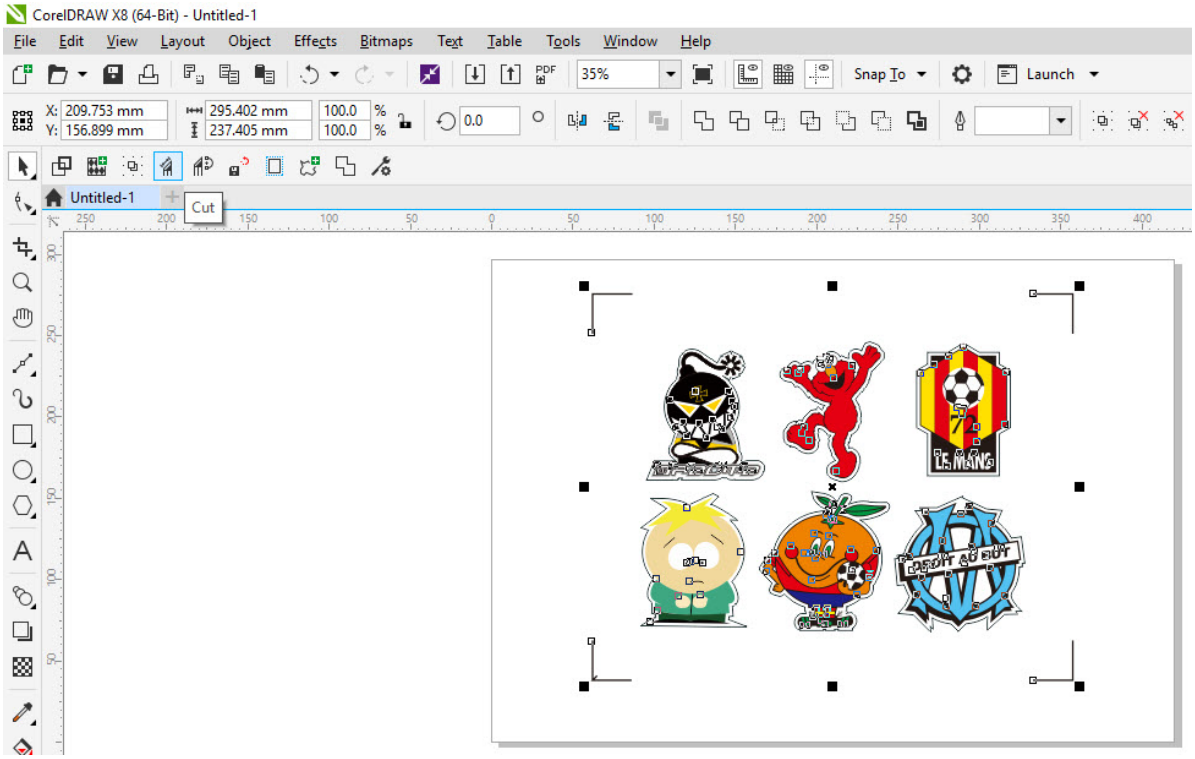
When you apply the “Multiple Copies” function, the value that has been set in this section will still be applied.

Step 2 Click on the Set Jog Marks icon on the GreatCut toolbar and 4 marks will be created as shown in the picture below.

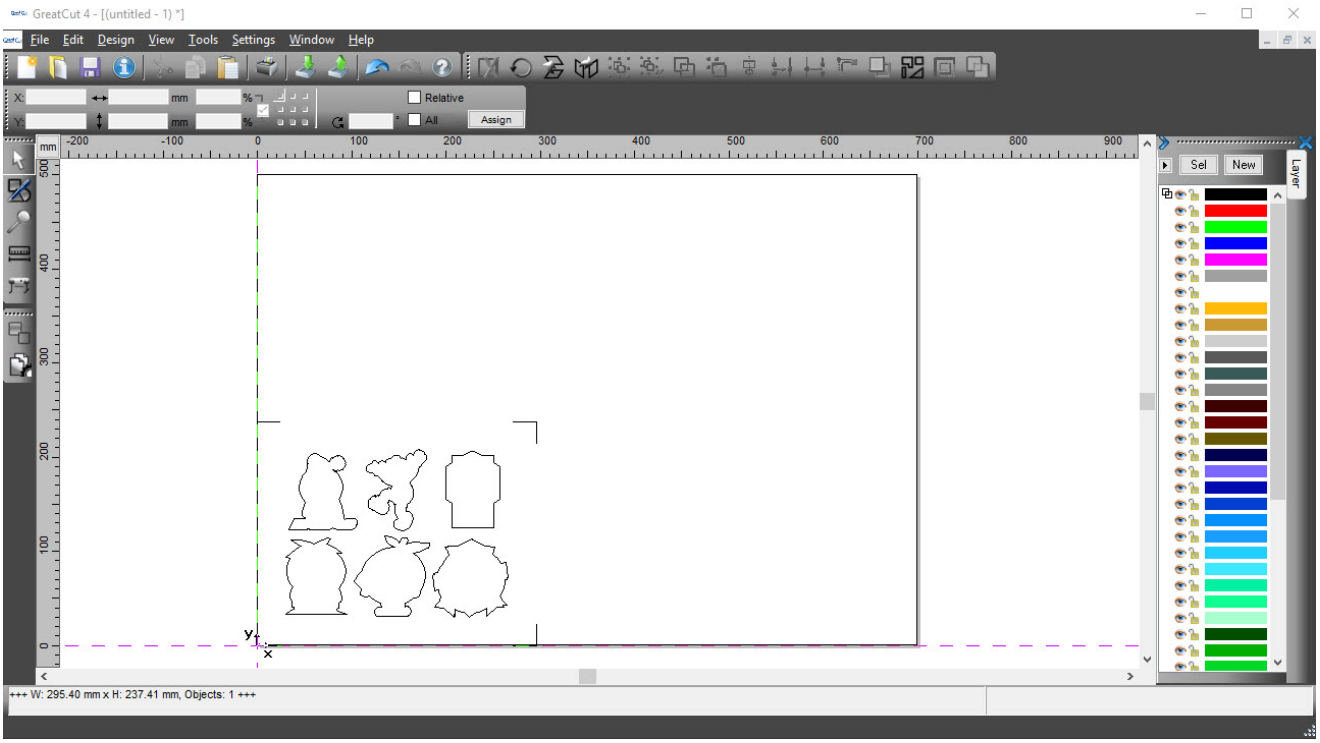




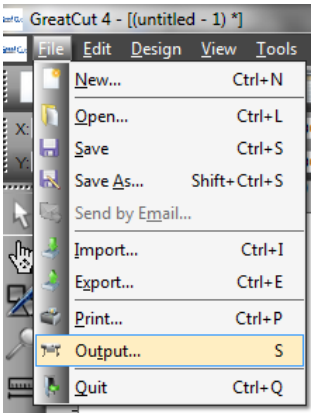
Step 3 Select both the entire object (including registration marks and the contour line) and press the Cut icon on the GreatCut toolbar.



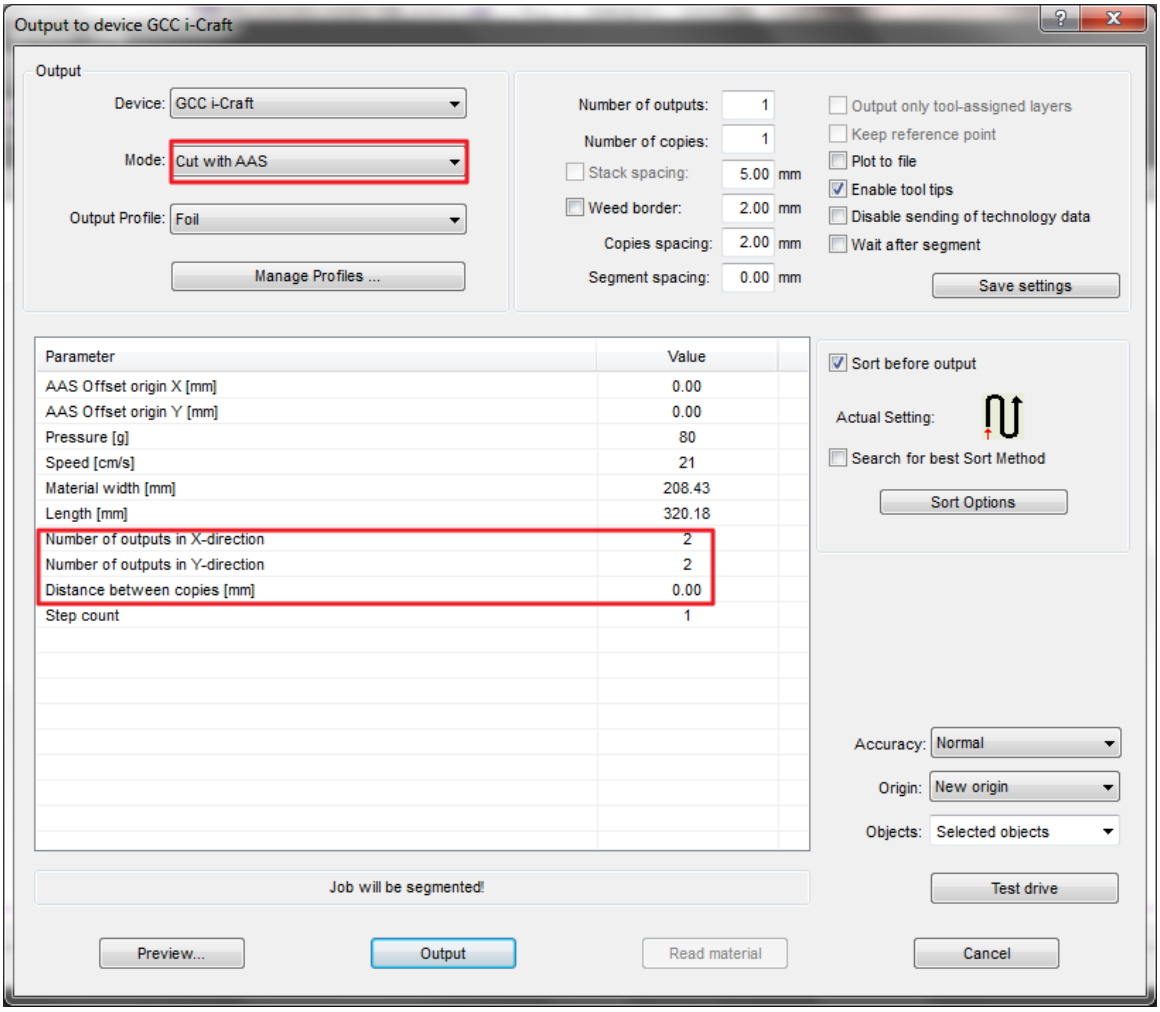
Step 4 The system will activate GreatCut automatically and import the registration marks and contour line to GreatCut.



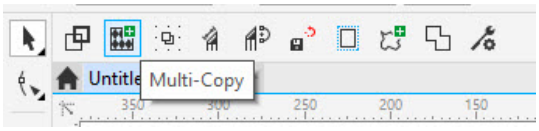
Step 5 Select Output under File.



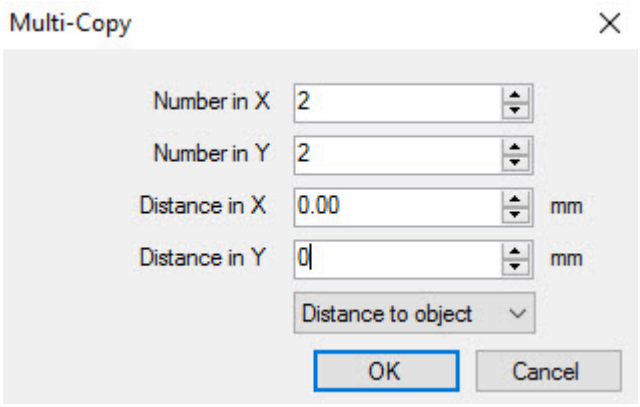
Step 6 Select Mode as “Cut with AAS” and input the Number of outputs in X-direction and Y-direction and Distance between copies, please don’t press output button.



Step 7 Back to CorelDRAW, Click Multi-Copy on GreatCut under File.

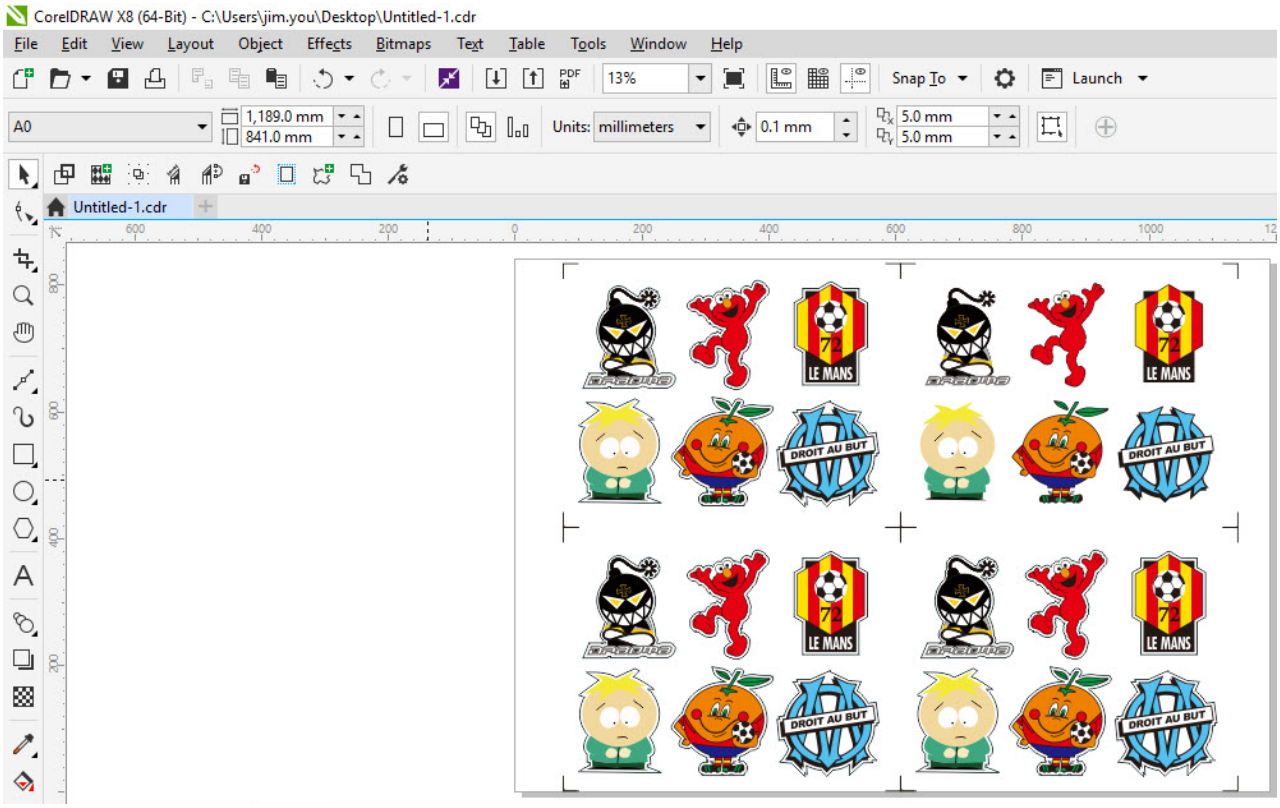


Step 8 Complete the Number in X/Y (the number of copies desired on the X/Y axis) and Distance in X/Y (distance between each copy) settings then click OK. Confirm that the value of Distance in X/Y must be the same with step 6.

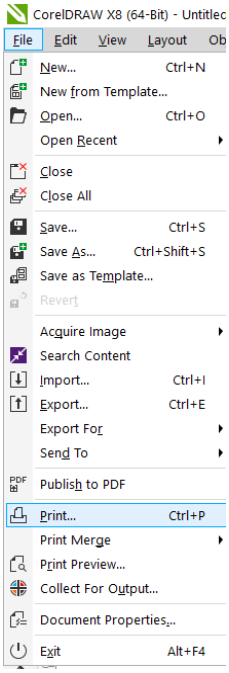


Note: The spacing of vertical & horizontal (Offset X & Y) should be ≥ 20mm or = 0mm; users are advised to set the Distance in X/Y as 0 mm to remove the space between each copy to avoid the waste of materials.

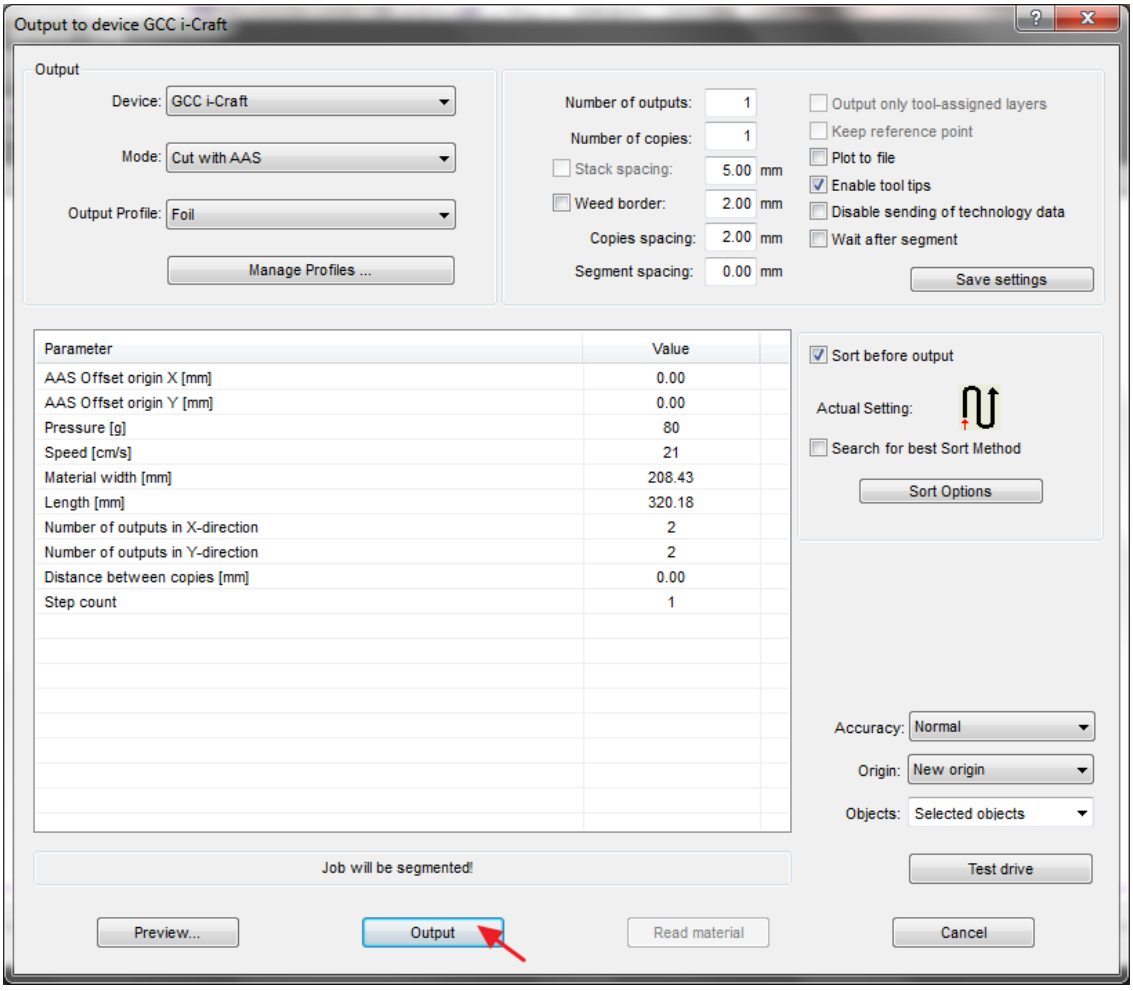
Step 9 The system will create several copies of the object with registration marks as shown in the picture below.



Step 10 Print the Multi-Copy images out, and put the printed media on the GCC cutting plotter.



Step 11 Go to GreatCut window, press Output button.

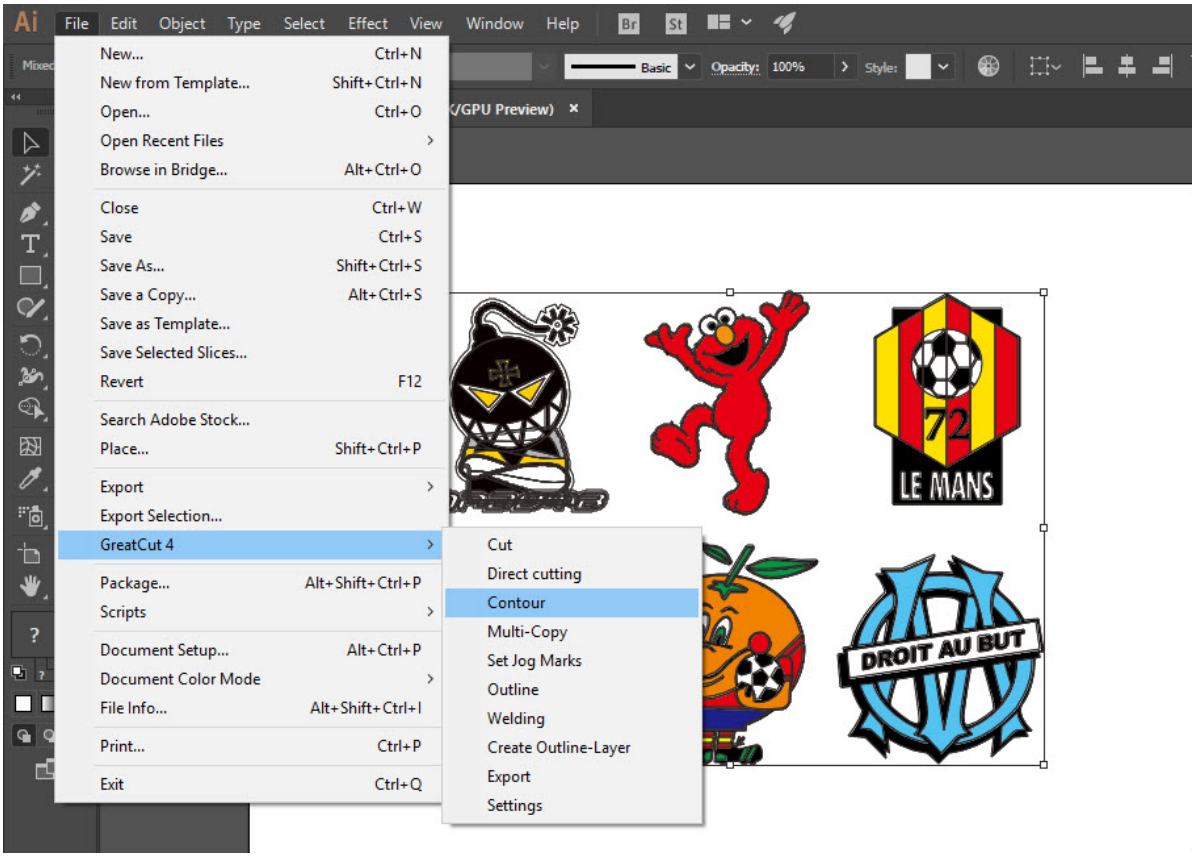


Edit your image in Adobe Illustrator

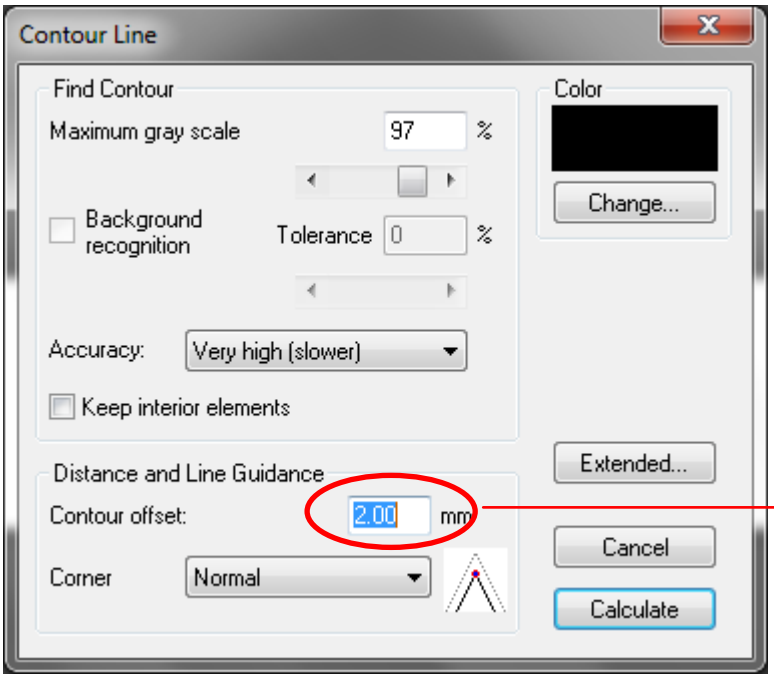
4-Point Positioning

Step 1 Create a new file in Adobe Illustrator.

Step 2 Select the image and go to Contour in GreatCu in File.

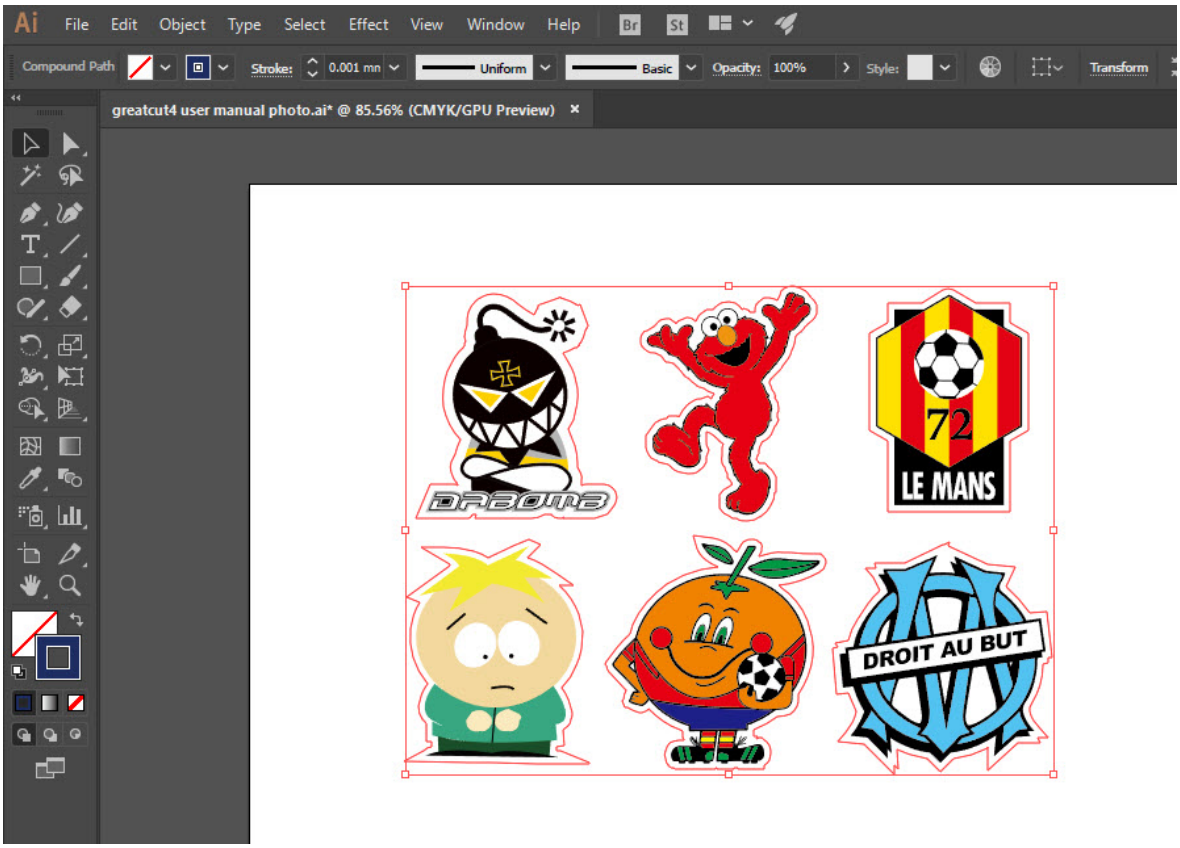


Step 3 Complete contour line settings (including contour offset value) and press Calculate to confirm.



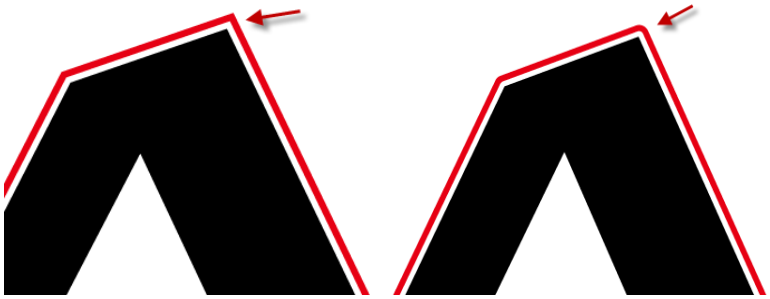
Contour offset is the distance between the object and the contour line.

Contour line is now added to the object.



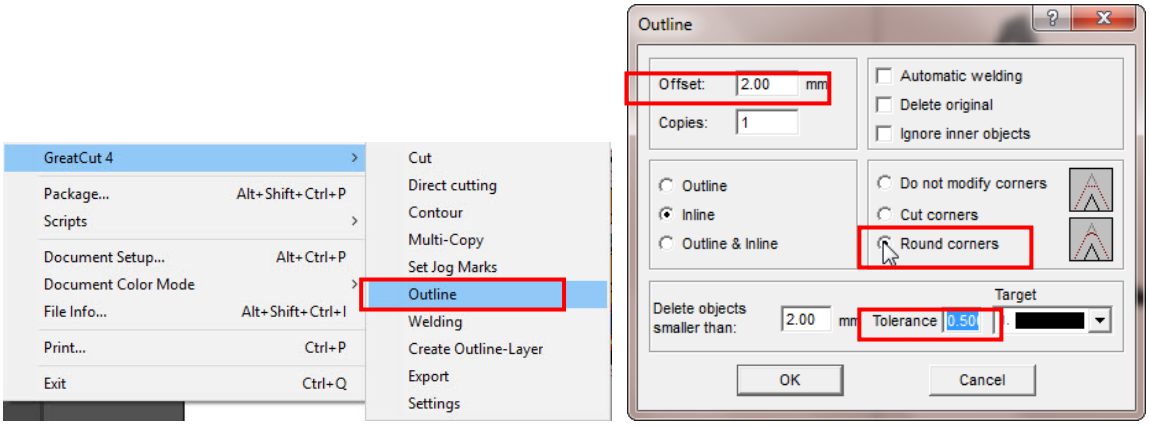
Tips: Vector object to create round outline

In general for vector objects you will get better results with the outline function. You will see the difference between "Normal" and "Round" in sharp corners. The picture is shown as below:



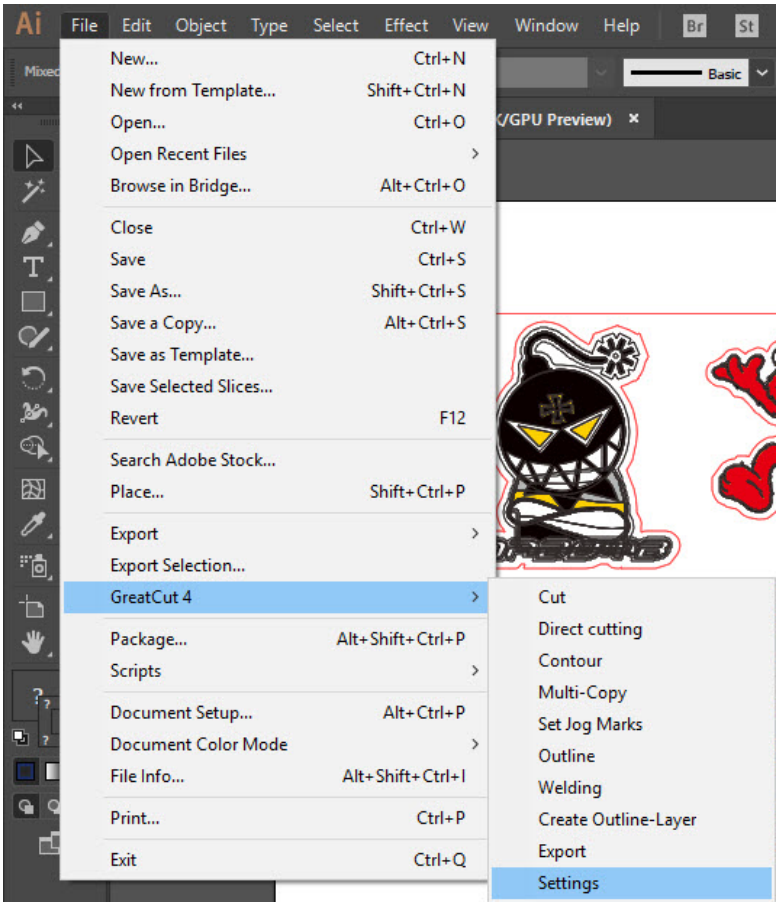
Normal Round

1. Select the “Outline” in GreatCut option under File to create contours in a freely definable distance around text objects.

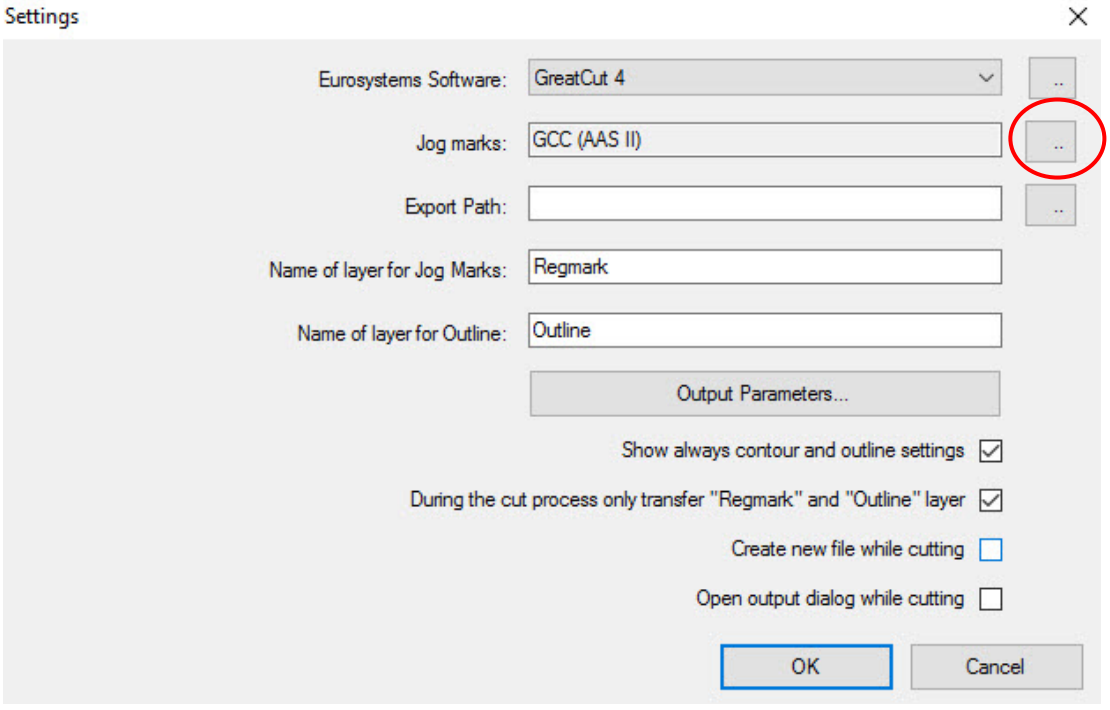


2. Select “Round corners” and set the value of “offset” and “tolerance.”
   Offset is the value for the distance of the inline and outline from the original object. The field **tolerance** indicates in which offset from the corner dot is cut respectively rounded.

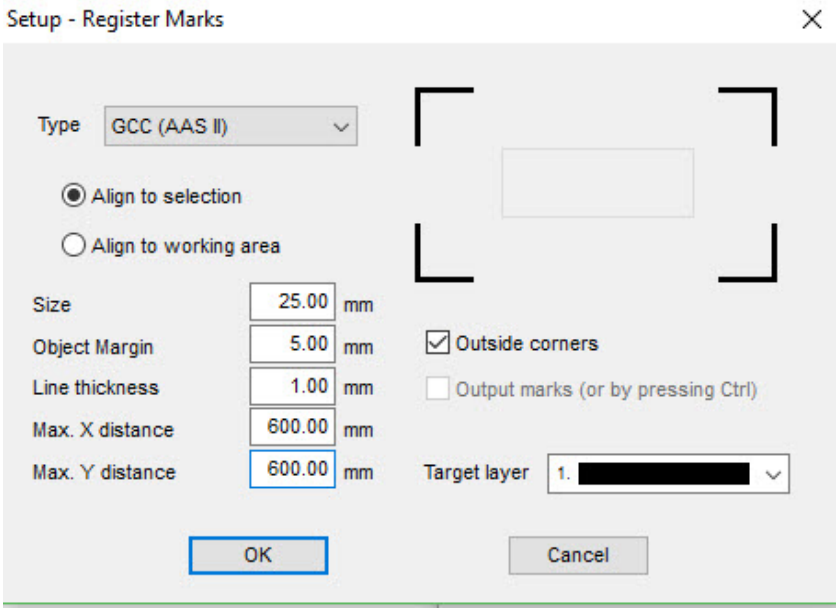
Step 4 Click Settings on GreatCut under File.



Step 5 Press the button on the right of Jog marks.



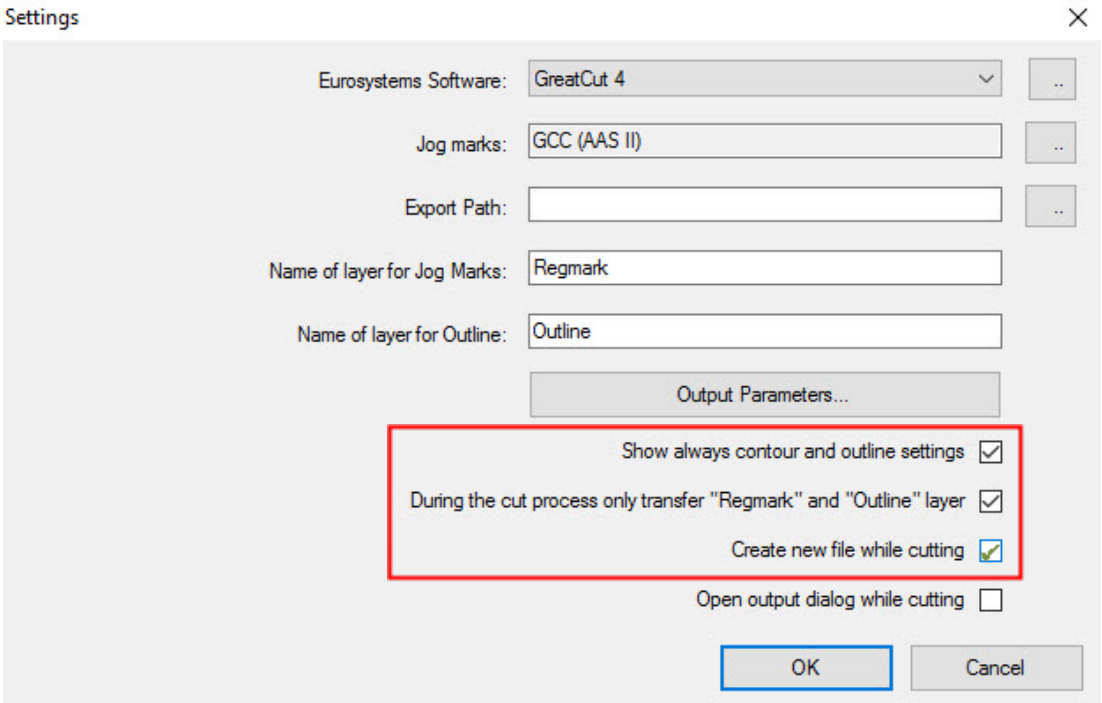
Step 6 Adjust the size, object margin and line thickness of your registration marks and click OK.



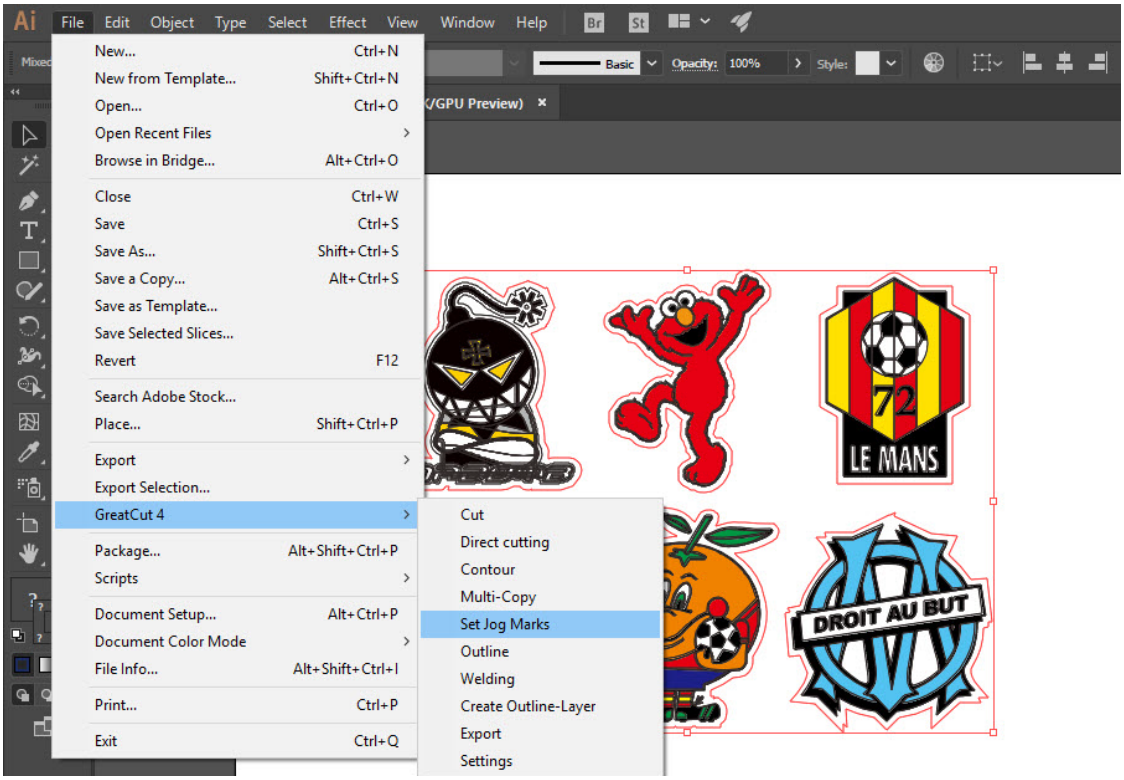
4-Point Positioning

- Size: The length of marks
  → Range: 5mm~50mm
  → Optimized Setting: 25mm
- Object margin: The distance between marks and images
  → Range: 0mm~50mm
  → Optimized Setting: 5mm
- Line thickness: the line thickness of marks
  → Range: 1mm~2mm
  → Optimized Setting: 1mm

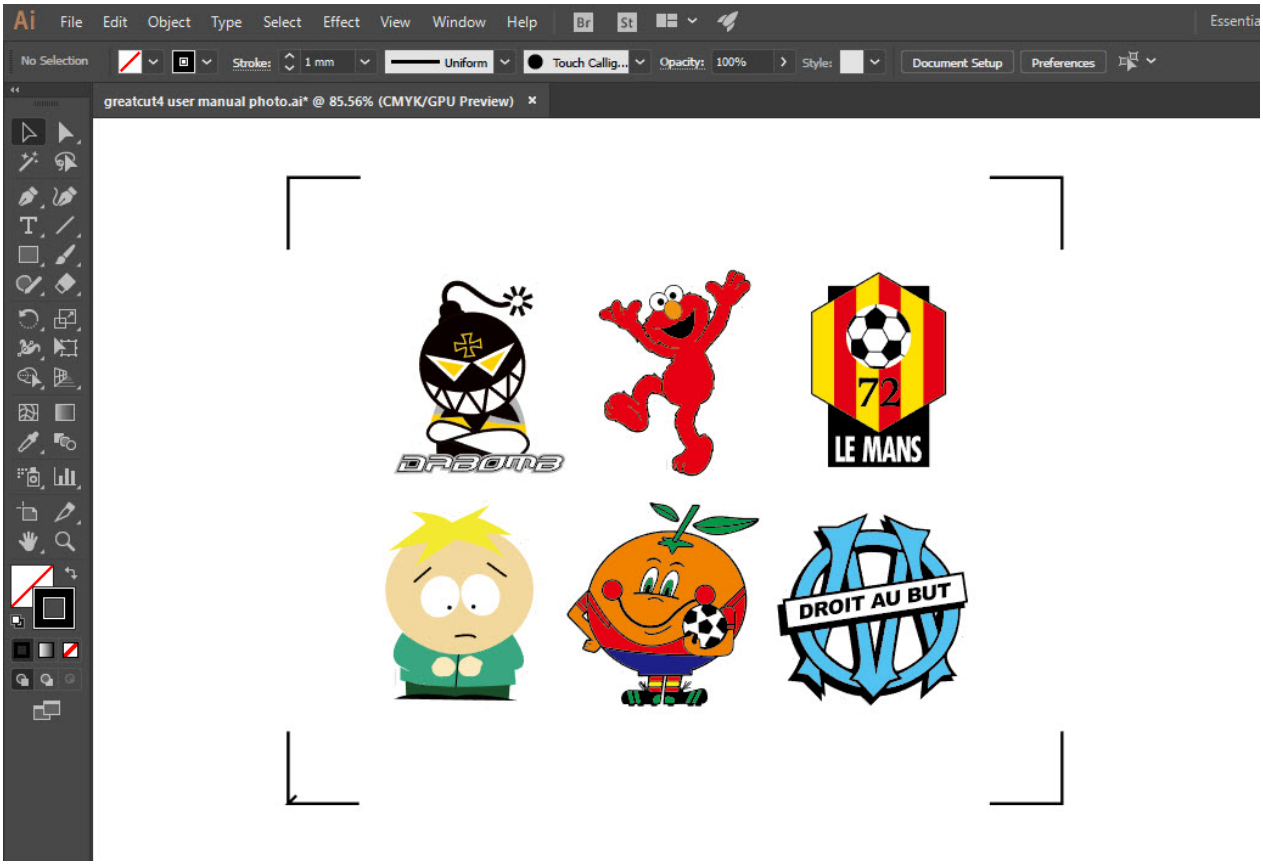
Step 7 Ensure the three items below are selected and click OK.



Step 8 Click Set Jog Marks on GreatCut under File.

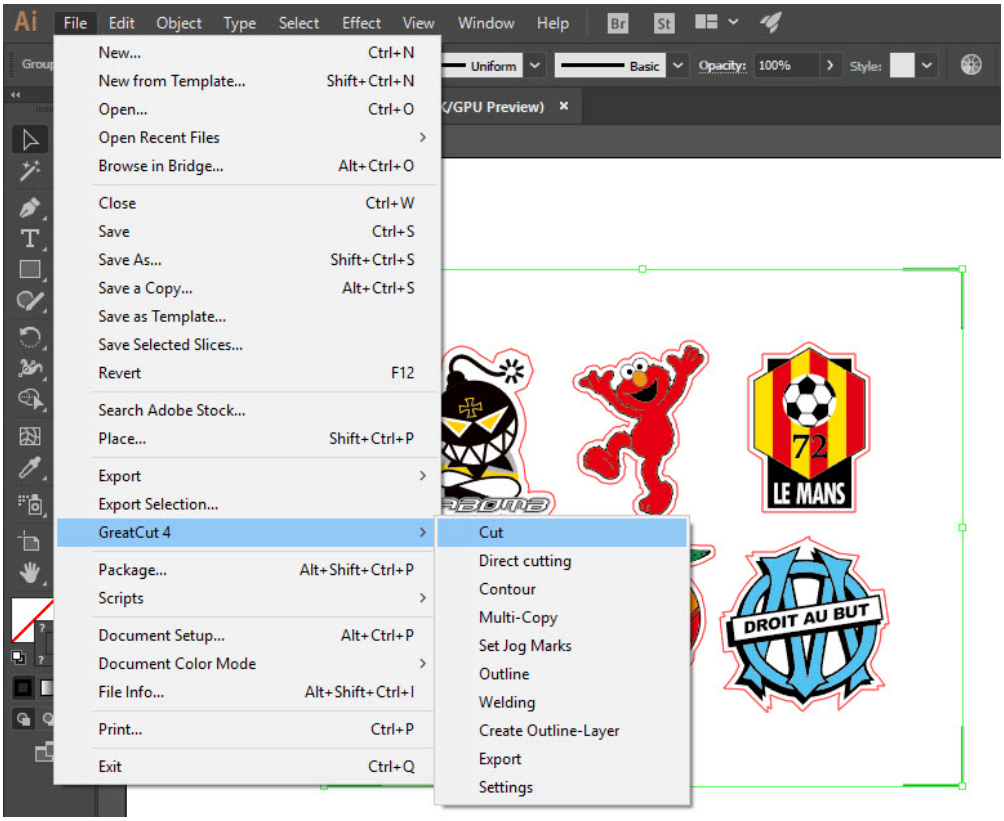


The system will create the 4 marks as shown in the picture below.

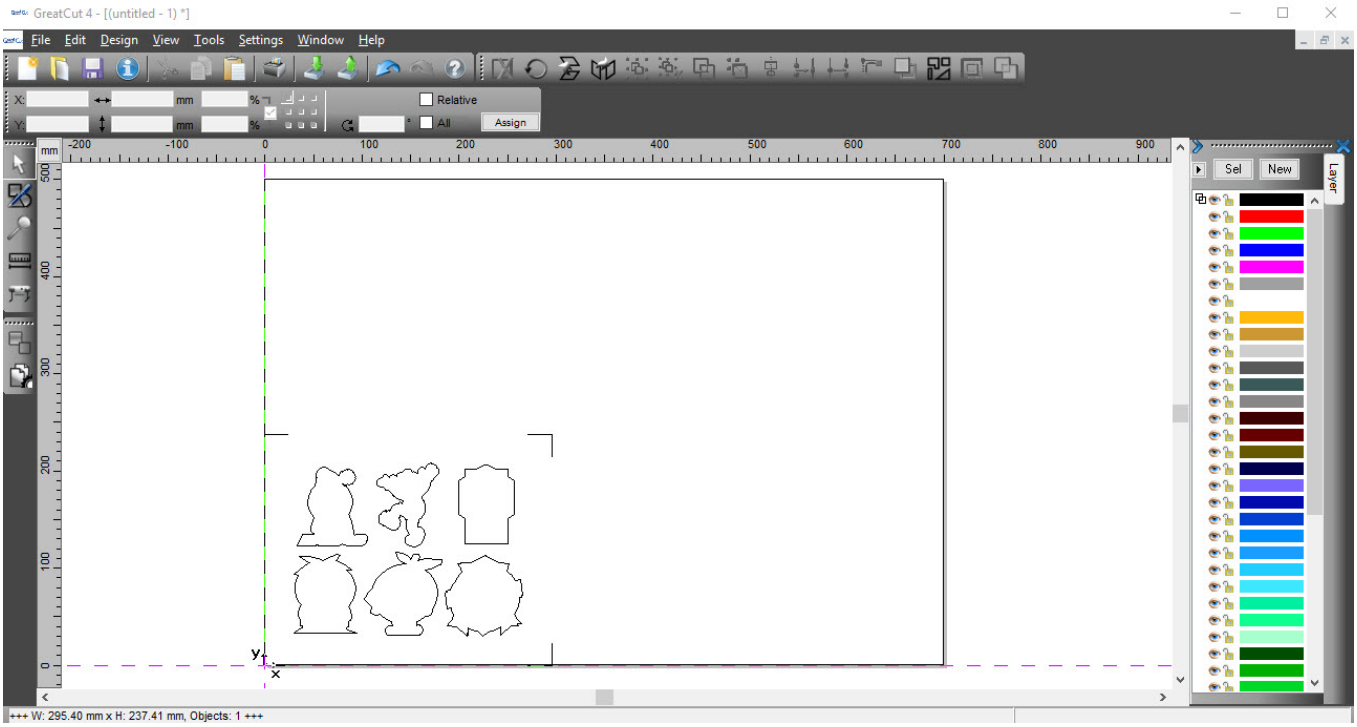


Output

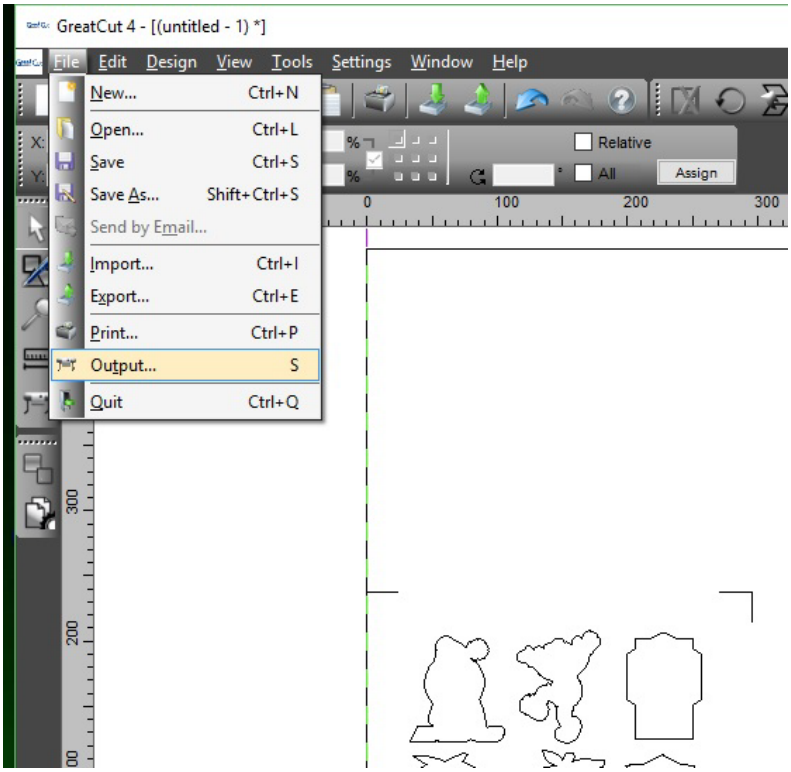
Step 1 Select both the entire object (including registration marks and the contour line) then click Cut on GreatCut under File.



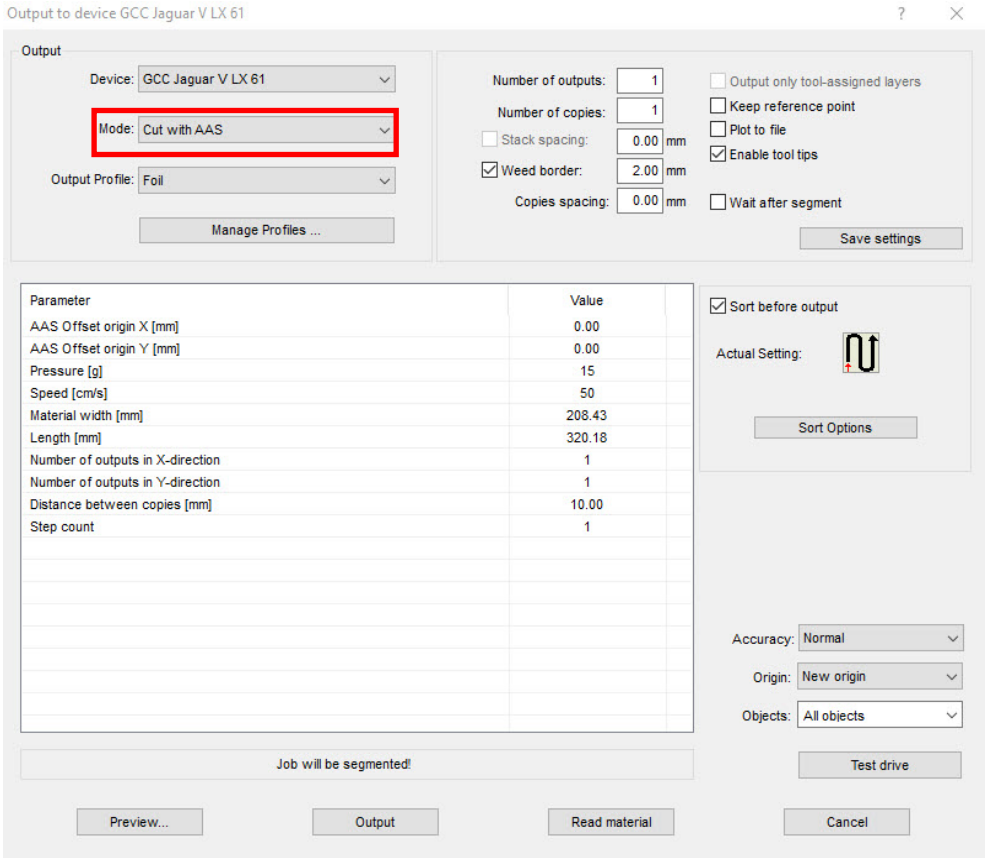
Step 2 The system will activate GreatCut automatically and import the registration marks and contour line to GreatCut.



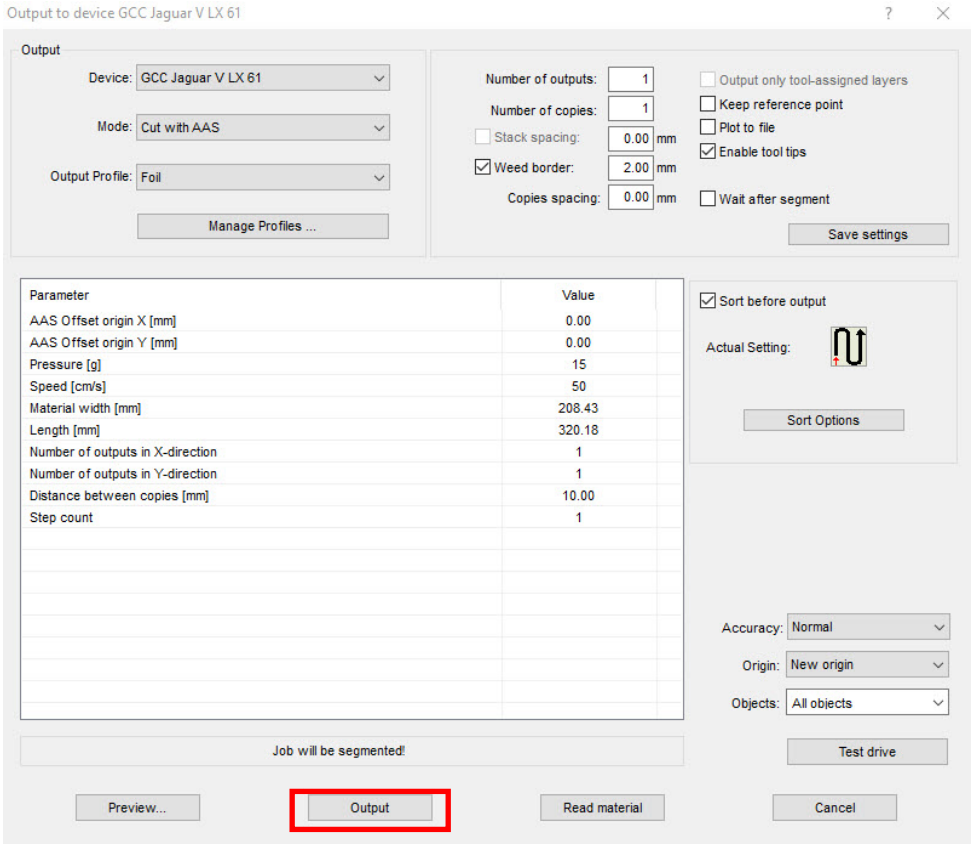
Step 3 Select Output under File.



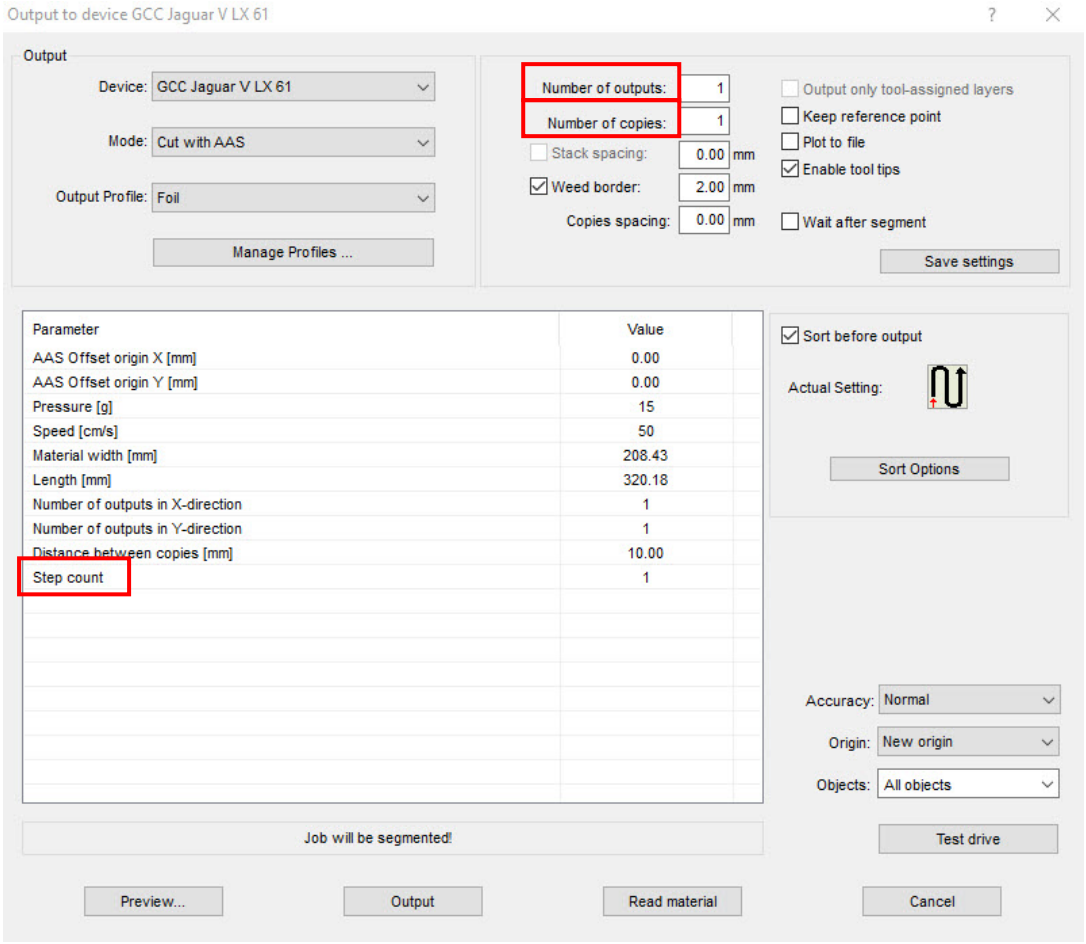
Step 4 Select Cut with AAS in Mode/Tool in the Output to device window.



Step 5 Click output and the object will be sent to GCC Cutting Plotter



Note: The difference amount Number of outputs, Number of copies, and Step count in the Output window.



1. When Number of outputs is set as 2, the square and the triangle will be cut 1 time and then the square and the triangle will be cut 1 time at next position.

2. When Number of copies is set as 2, the square and the triangle will be cut 2 times at the same position.

3. When Step count is set as 2, the square will be cut 2 times at the same position and then the triangle will be cut will be cut 2 times at the same position.

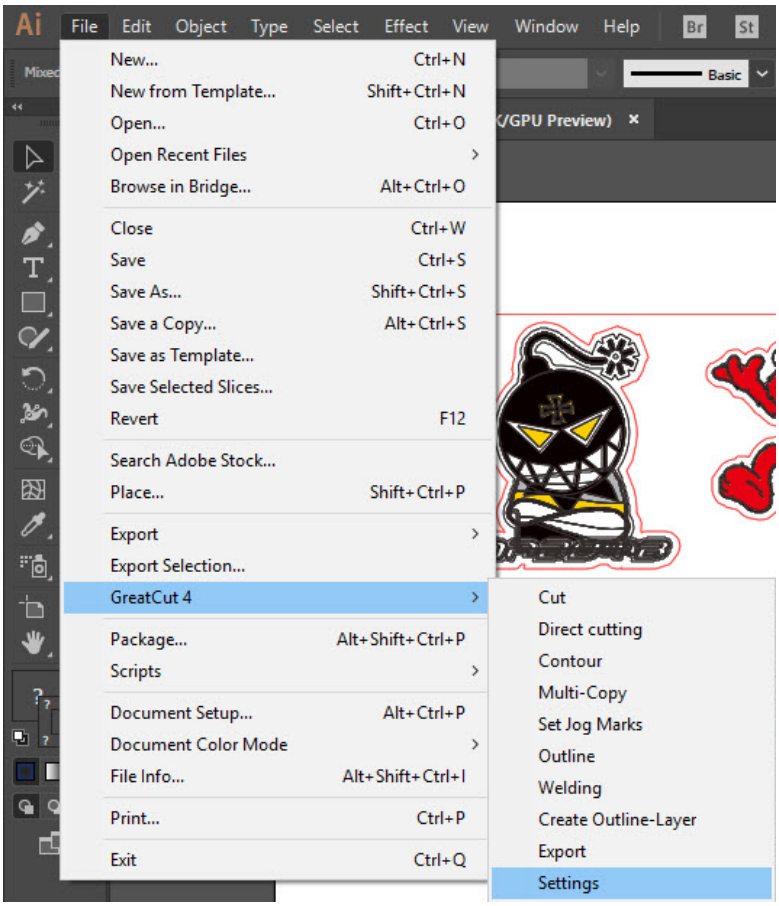
Advanced Settings

Segmental Positioning

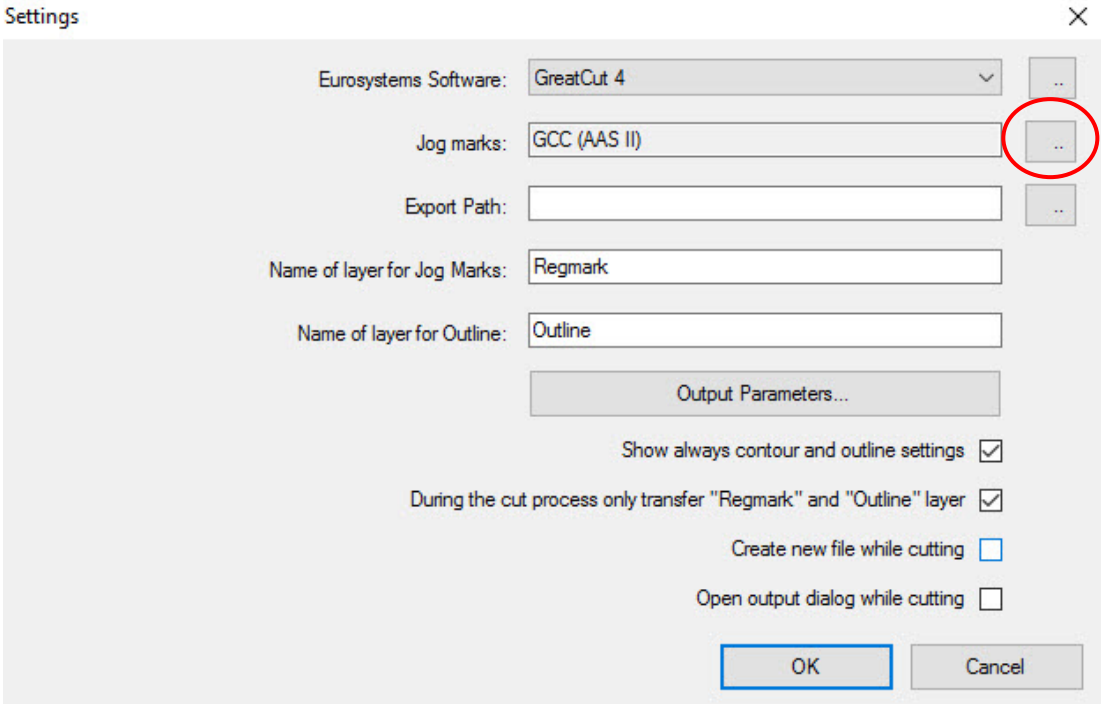
For precise cutting quality, it is suggested to apply “Segmental Positioning” by adjusting the x and y distance when you are working on an extra long or large-size image to increase cutting quality.

Follow the same steps in the **4-Point Positioning** section to complete the contour line setting and registration mark creation procedures. Adjust the size, object margin and line thickness of your registration marks and the space between registration marks by changing X, Y distance in the Setup-Jog Marks window and click OK.

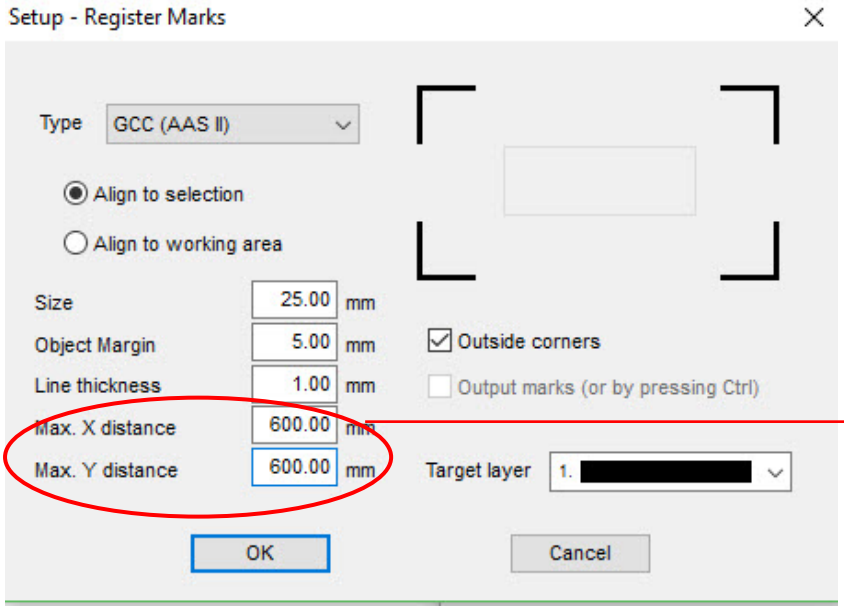
Step 1 Click Settings on GreatCut under File.



Step 2 Press the button on the right of Jog marks.



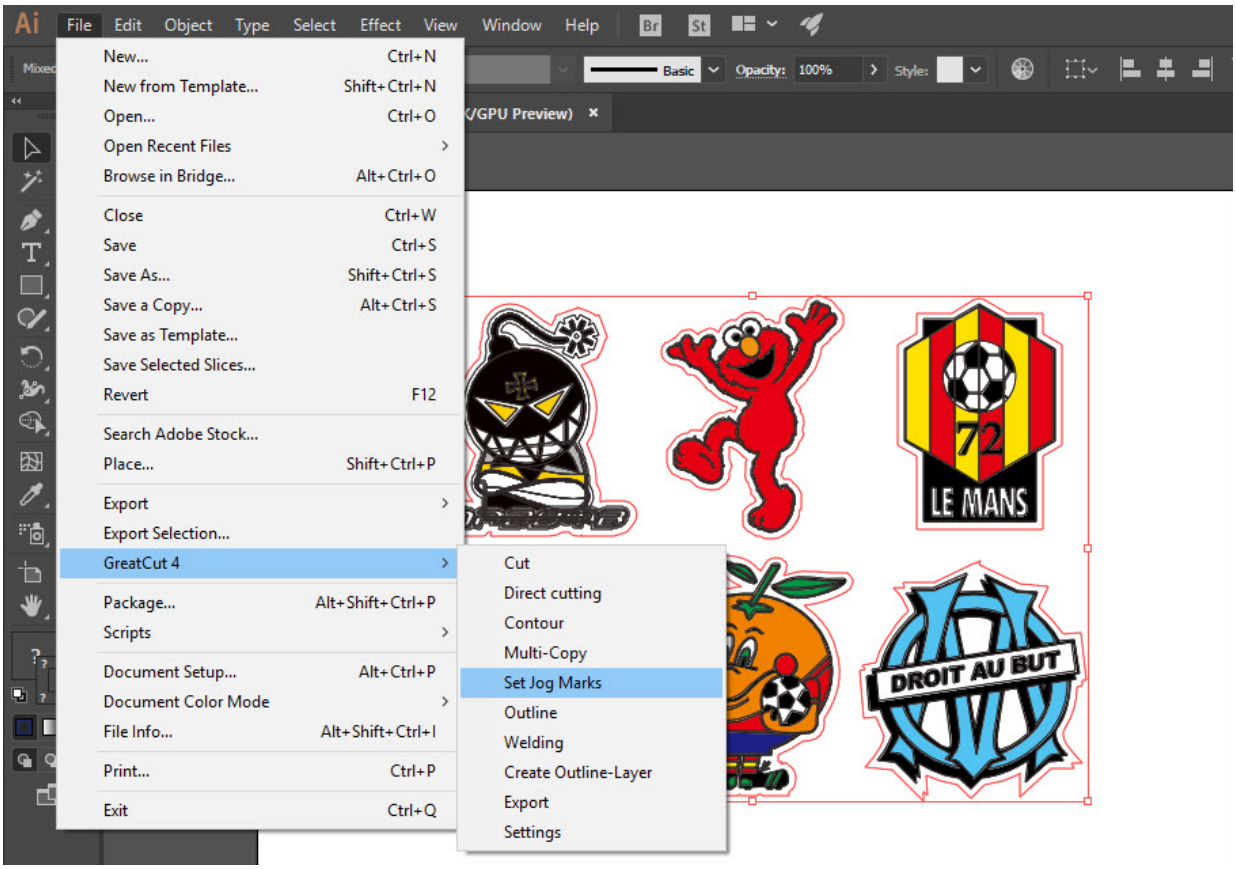
Step 3 Adjust the size, object margin and line thickness of your registration marks and click OK.

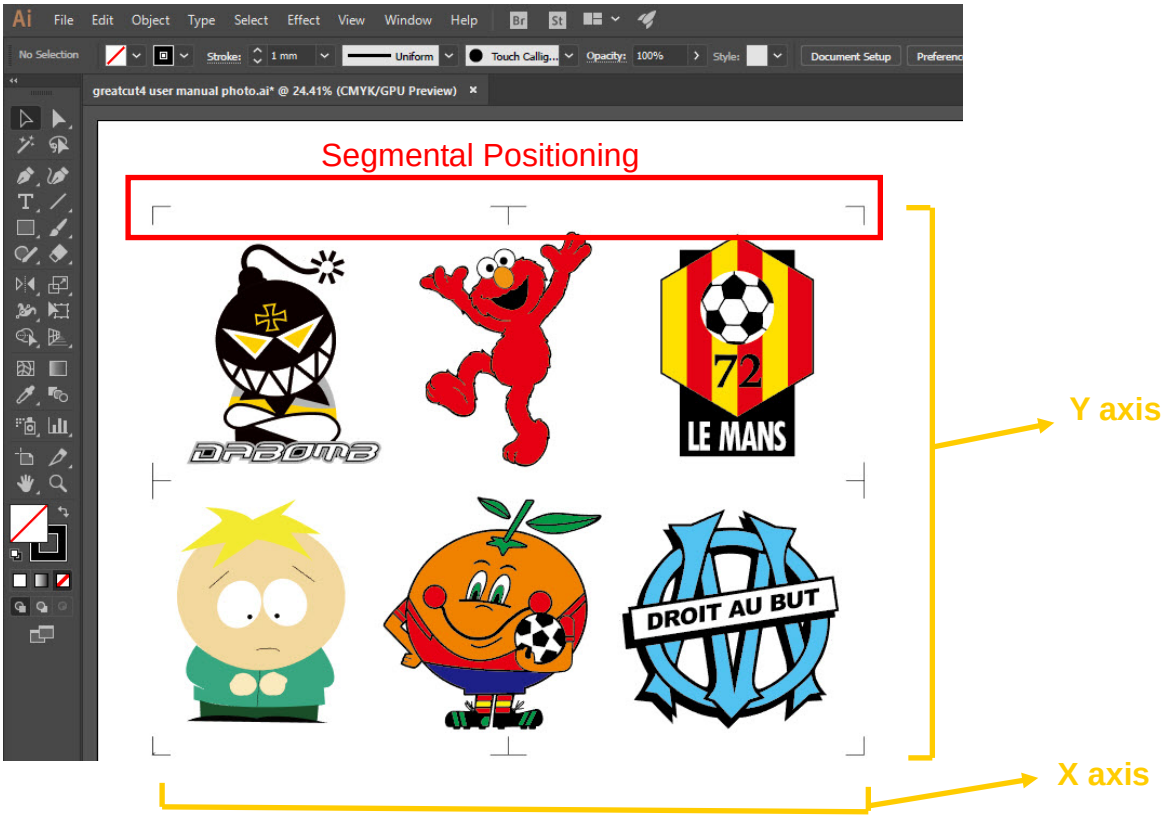


Segmental Positioning

- Max. x Distance: The distance of intermediate position on the X axis
  → Range: 200-500 mm
- Max. y Distance: The distance of intermediate position on the Y axis
  → Range: 200-500 mm

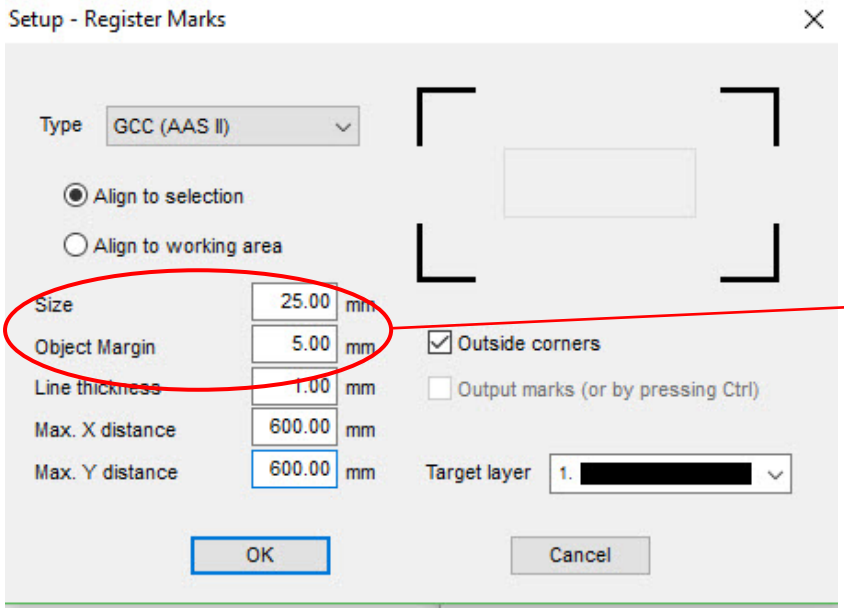
Step 4 Select the Set Jog Marks on GreatCut under File and 4 marks will be created as shown in the picture below.





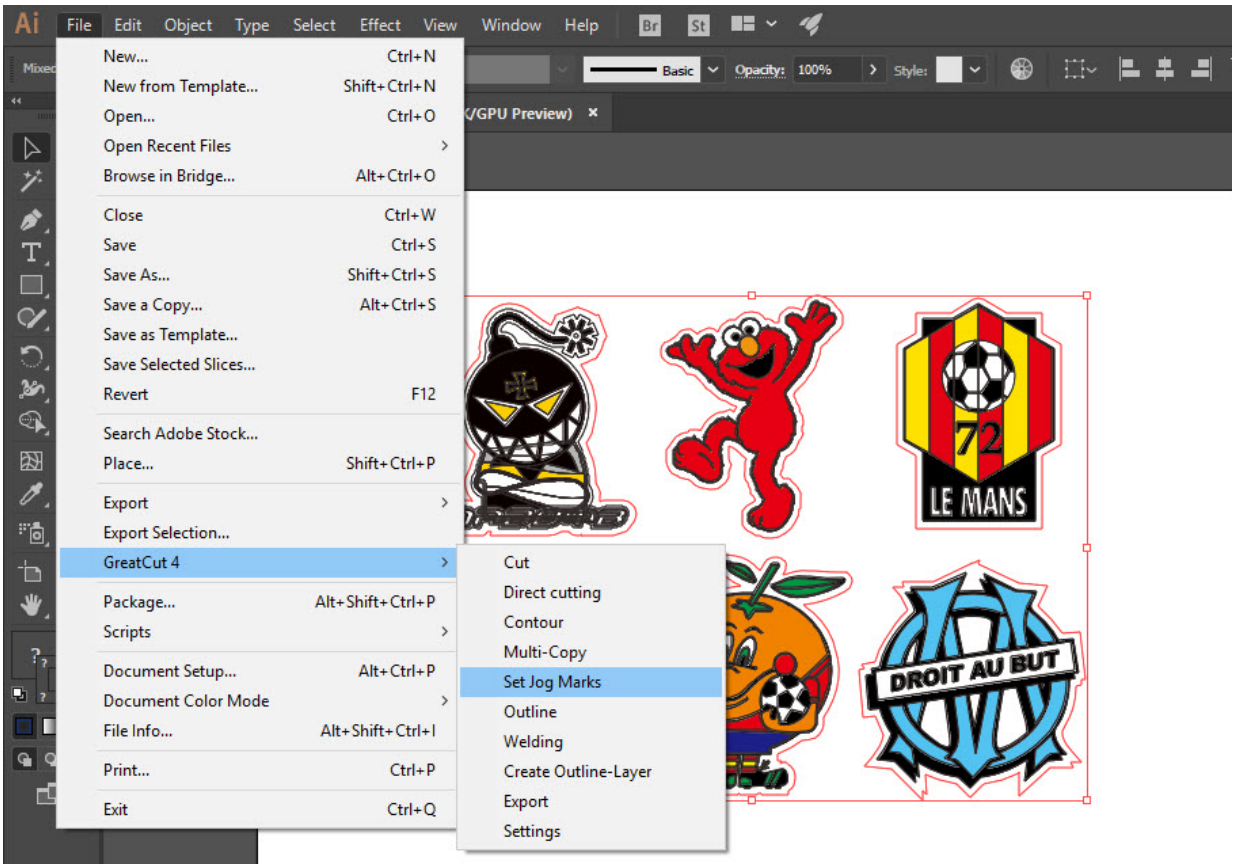
Multi-Copy

Step 1 Follow the same steps in the **4-Point Positioning** section to complete the contour line setting and registration mark creation procedures.

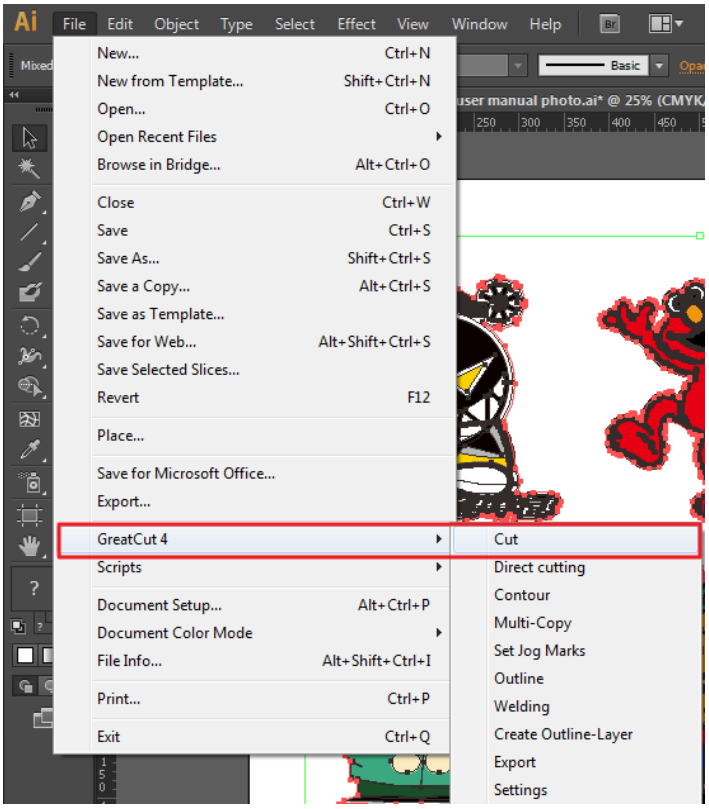


When you apply the “Multiple Copies” function, the value that has been set in this section will still be applied.

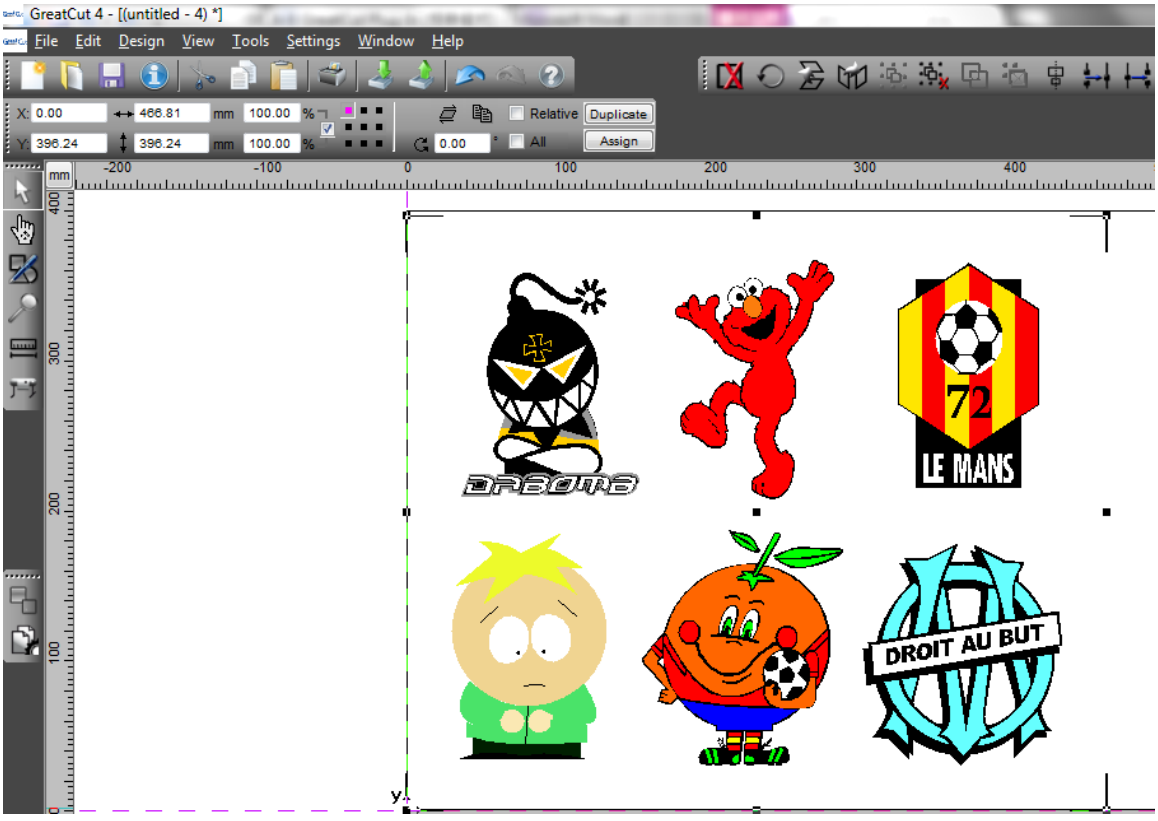
Step 2 Select the Set Jog Marks on GreatCut under File and 4 marks will be created as shown in the picture below.



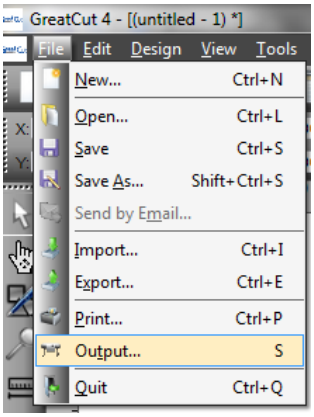
Step 3 Select both the entire object (including registration marks and the contour line) then click Cut on GreatCut under File.



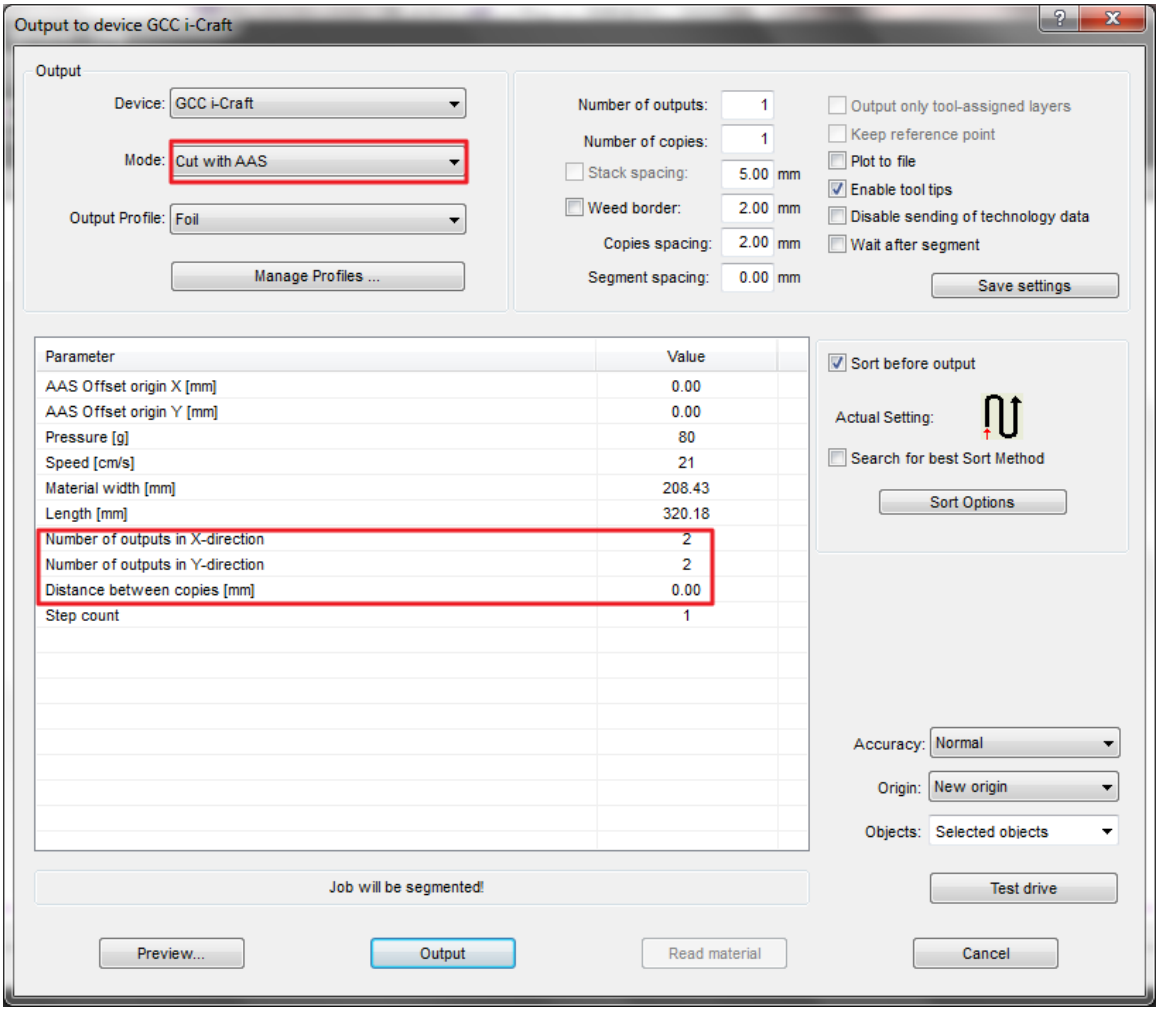
Step 4 The system will activate GreatCut automatically and import the registration marks and contour line to GreatCut.



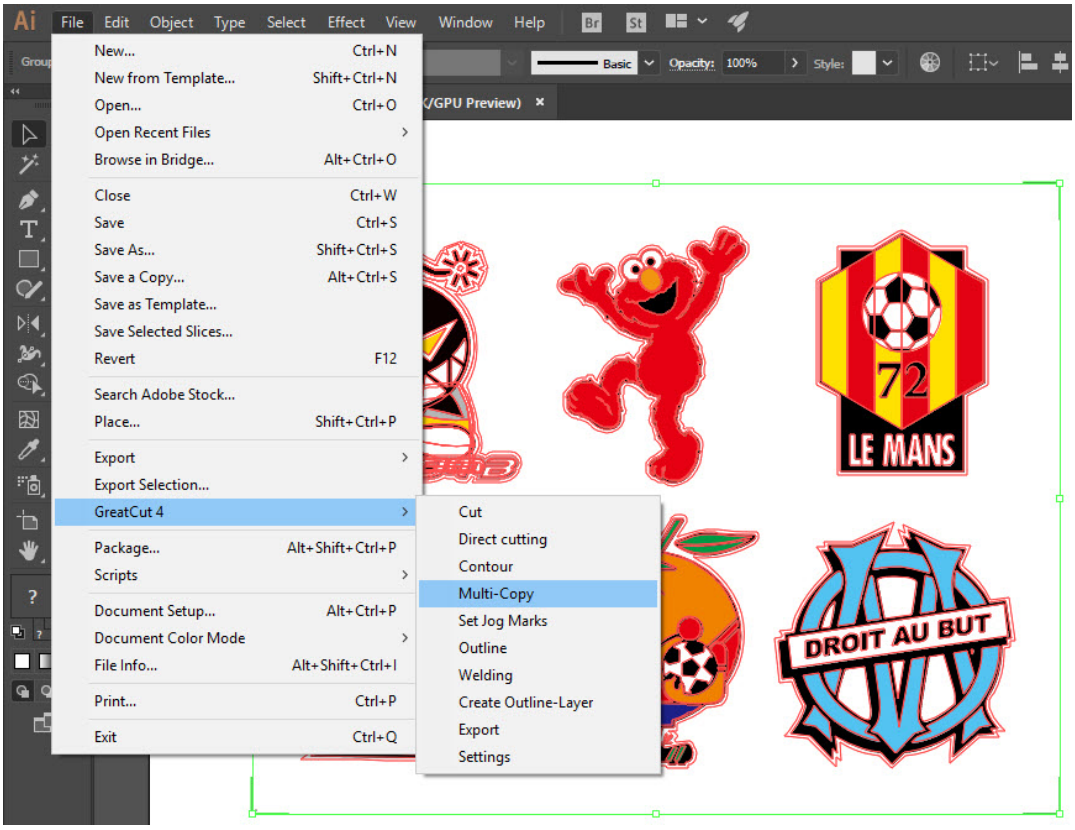
Step 5 Select Output under File.



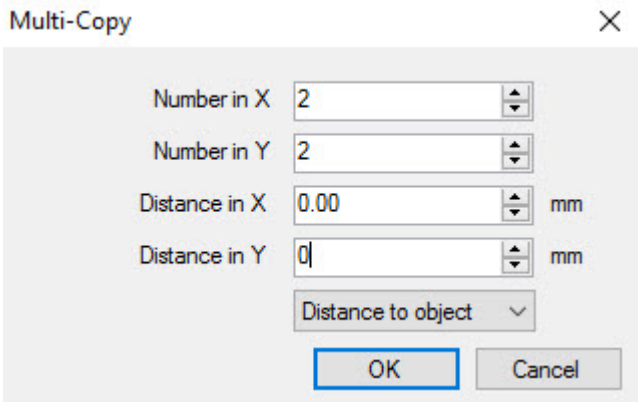
Step 6 Select Mode as “Cut with AAS” and input the Number of outputs in X-direction and Y-direction and Distance between copies, please don’t press output button.



Step 7 Back to Adobe Illustrator, Click Multi-Copy on GreatCut under File.

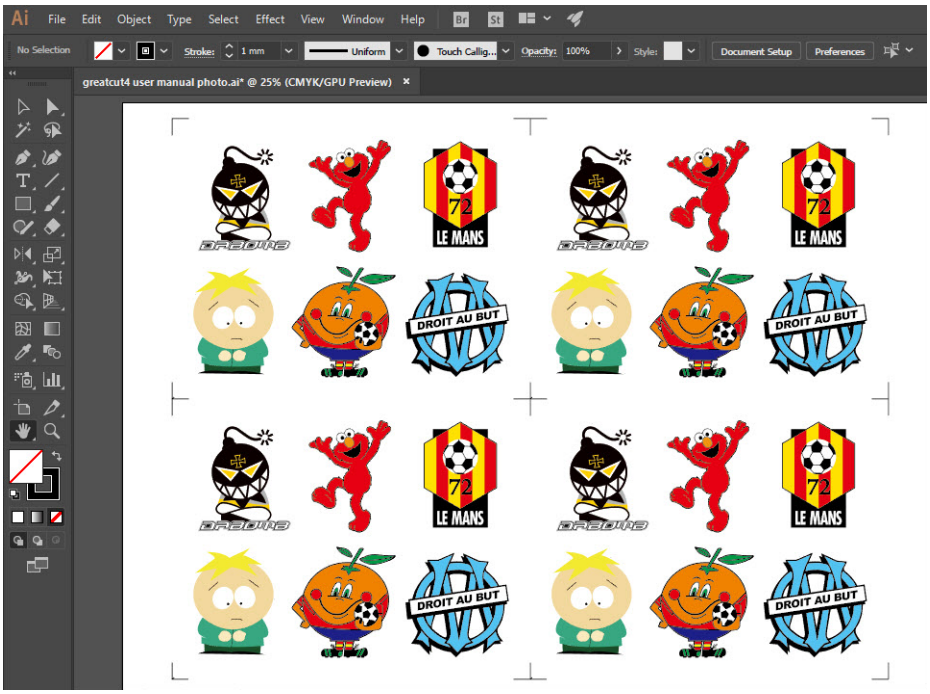


Step 8 Complete the Number in X/Y (the number of copies desired on the X/Y axis) and Distance in X/Y (distance between each copy) settings then click OK. Confirm that the value of Distance in X/Y must be the same with step 6.

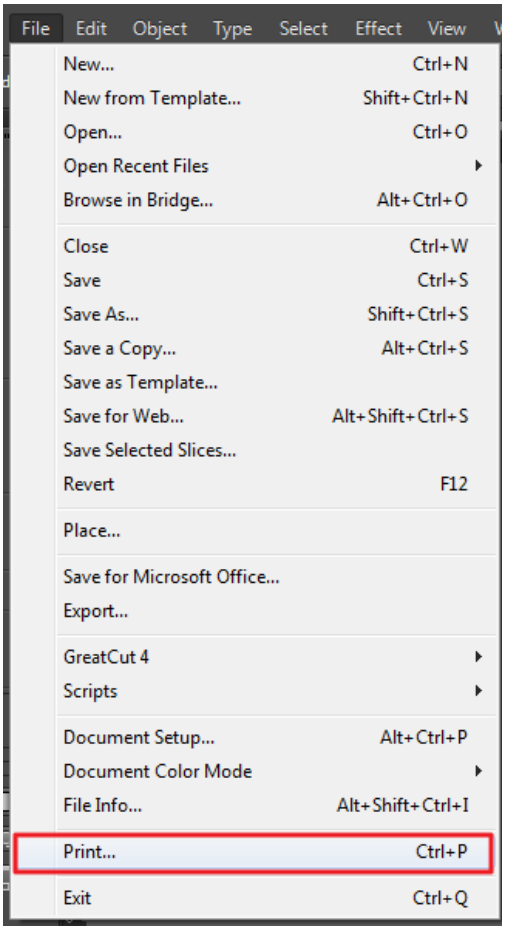


Note: The spacing of vertical & horizontal (Offset X & Y) should be ≥ 20mm or = 0mm; users are advised to set the Distance in X/Y as 0 mm to remove the space between each copy to avoid the waste of materials.

Step 9 The system will create several copies of the object with registration marks as shown in the picture below.



Step 10 Print the Multi-Copy images out, and put the printed media on the GCC cutting plotter.



Step 11 Go to GreatCut window, press Output button.