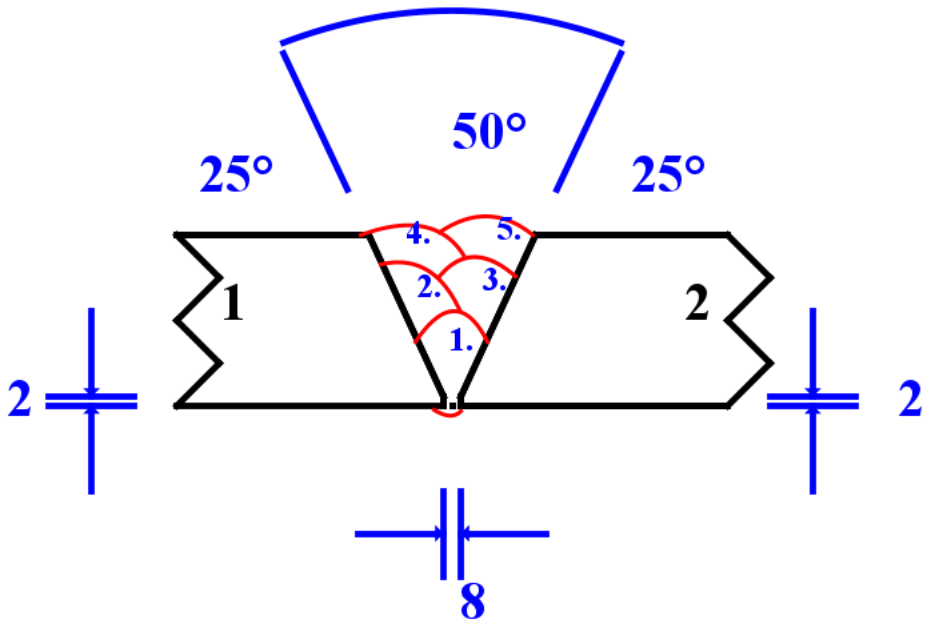
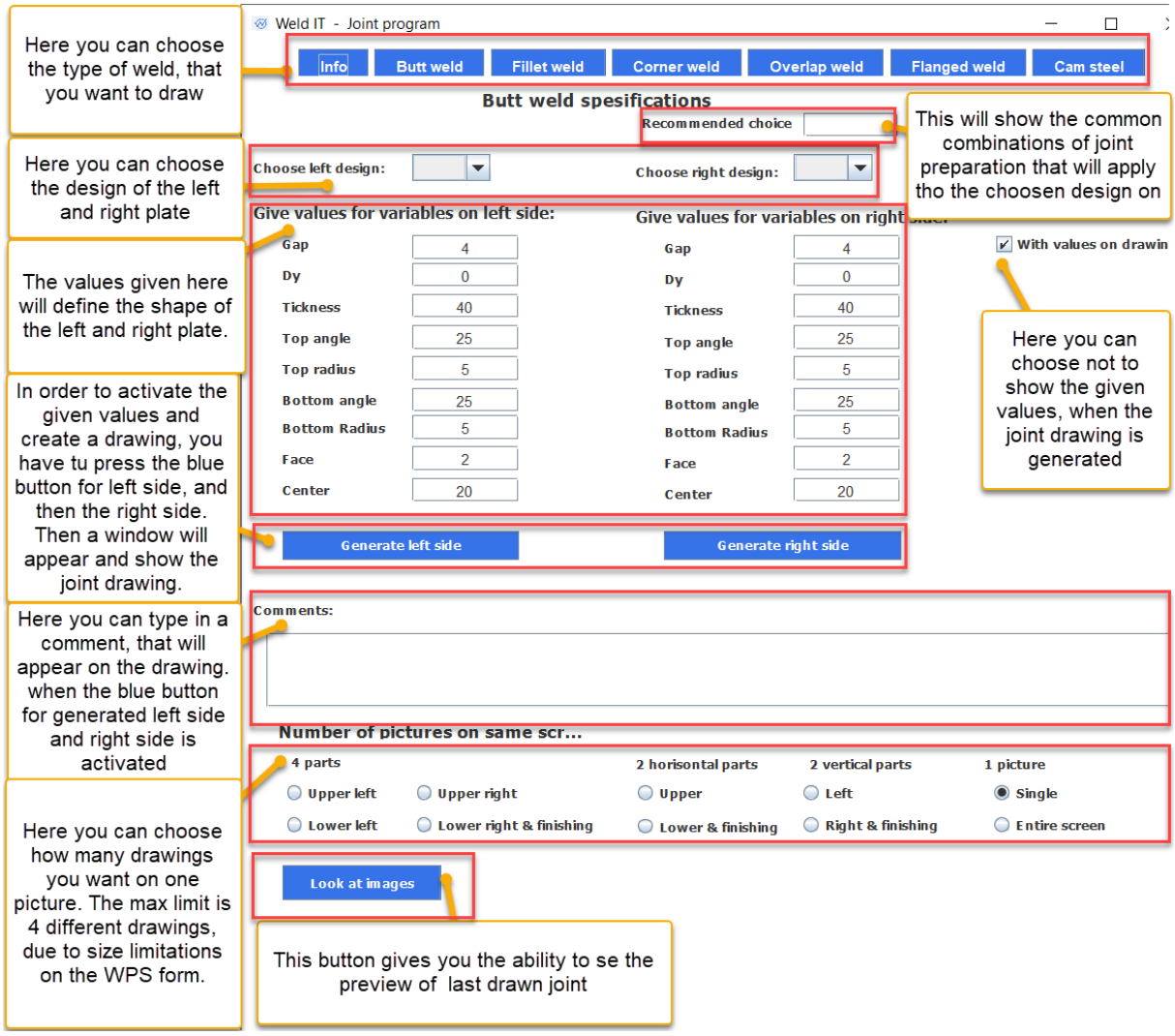
Joint program

Weld IT has created a joint program that can make both joint and string drawings, for use in the creation of a WPS. The program creates images based on input form users, to create realistic dimensions, a typically image can look like this test image:



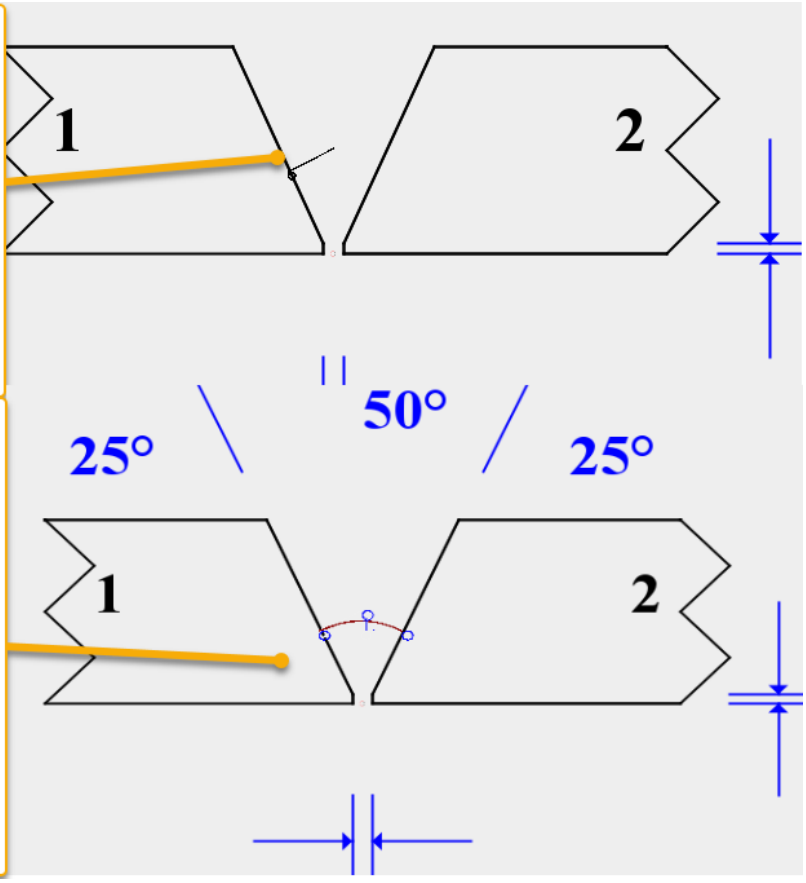
Below is a description of how the program works:



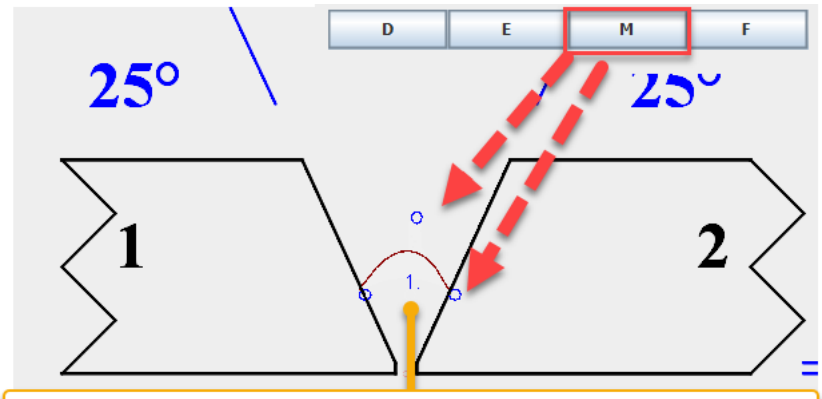
Drawing window:

1.In order to create a string drawing you point the mouse hand to the point where you want the string to start, and push the right mouse button. You will then get a start point marked by a circle. After that you press the right mouse button where you want the top of the weld string to be. Then you will get a black line between the points.

2. When you have the black line, you choose a point where you want the string to end, an use the right mouse button to click on it. The program will then create an arc with three circles, and a string number shown in the second picture.

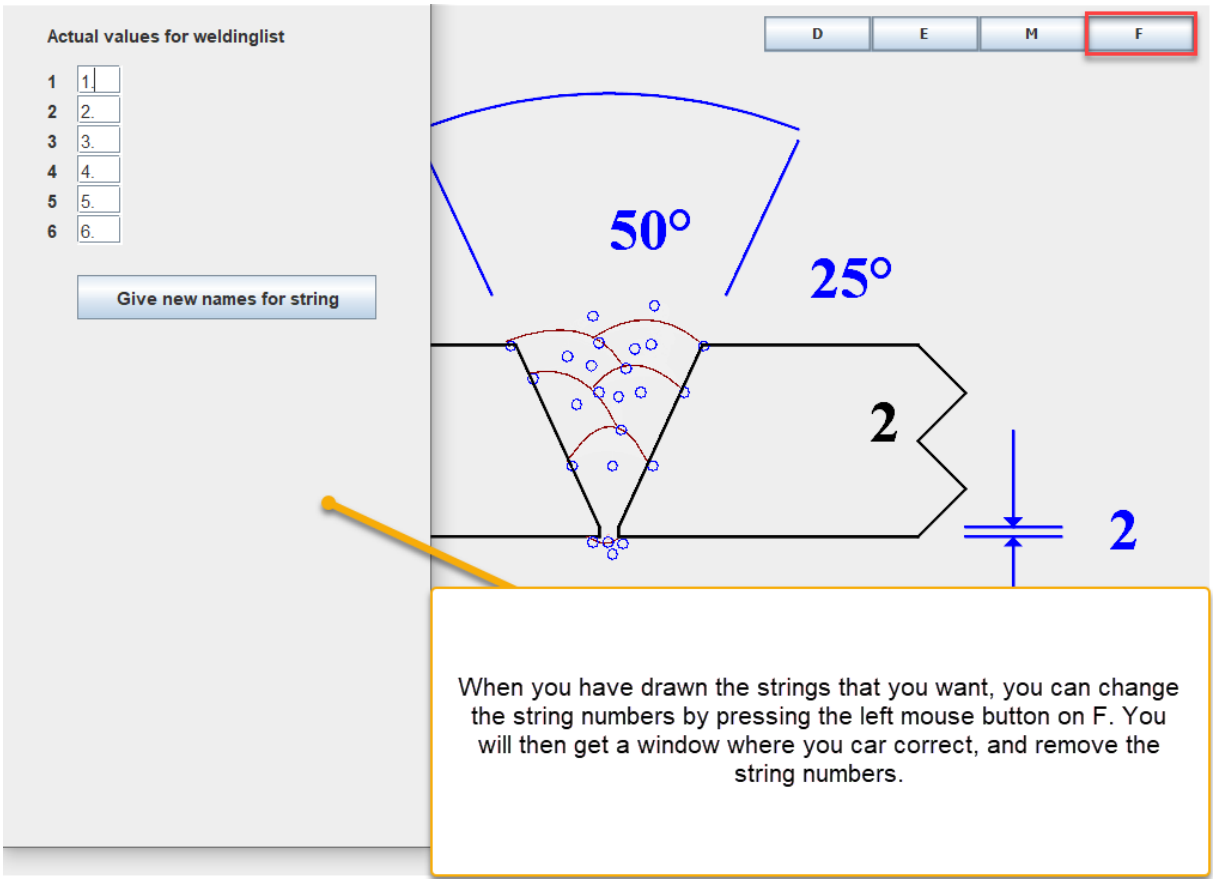


String buildup:

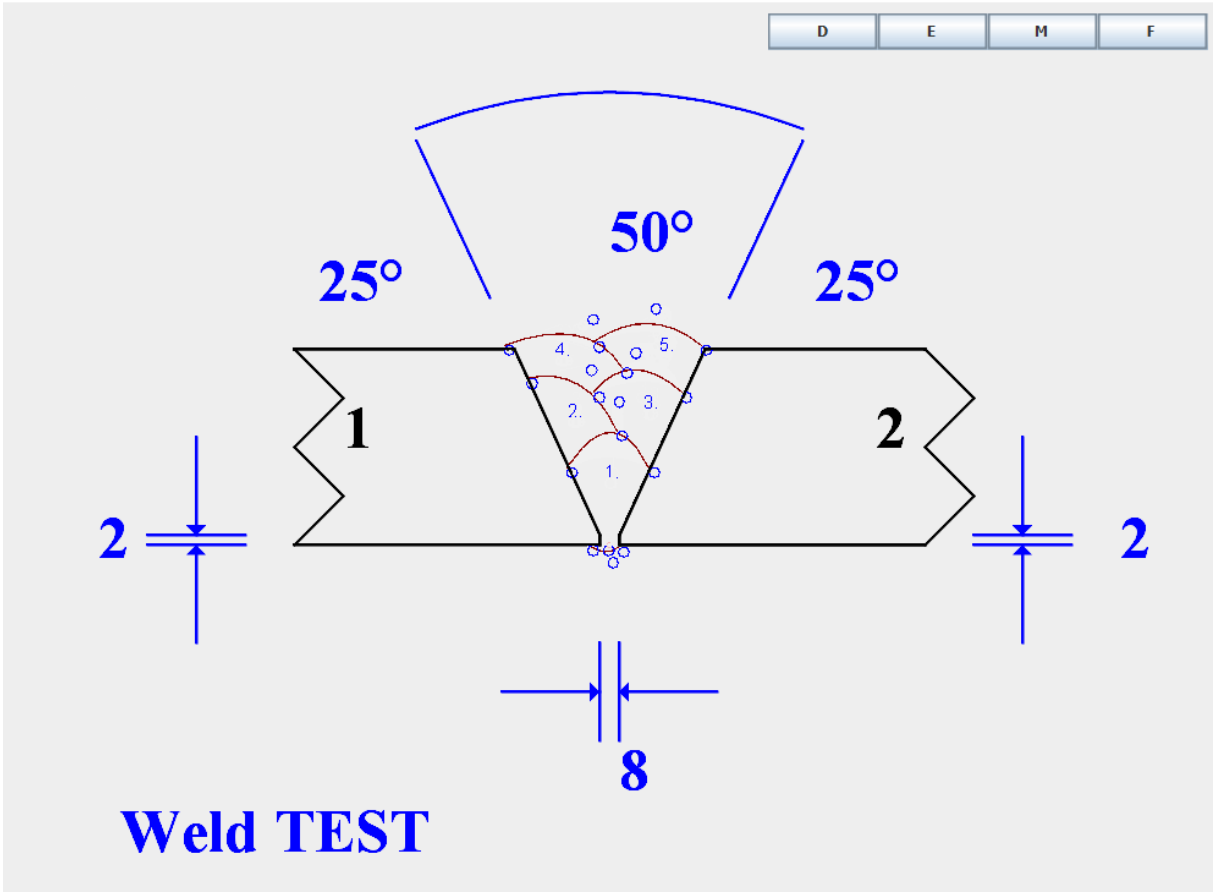


To adjust the drawn string, you have to press the M button with the left mouse button. Than the mouse courser shifts to an cross, and than you can use the left mouse button to move the string around. To do this you have to have the mouse cross in the center of the circle that you want to move. You can also move the weld string number.

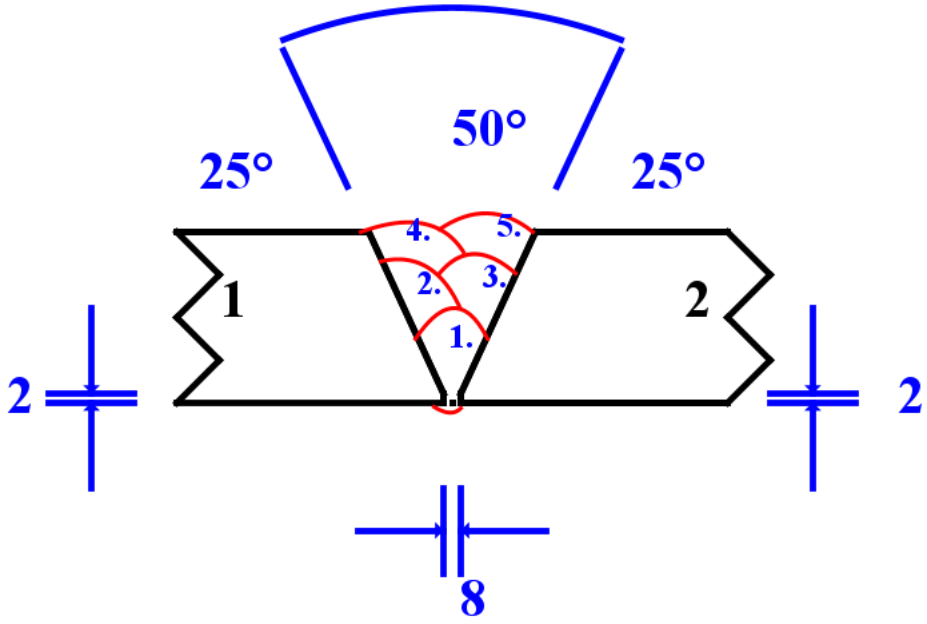
If you want to delete a welding string, you must push the E button in the panel menu located in the upper corner of the drawing picture. A cross will show, and you place it on one of the small blue circles, related to the string that you want to remove. And then click the middle mouse button, to get the string removed.



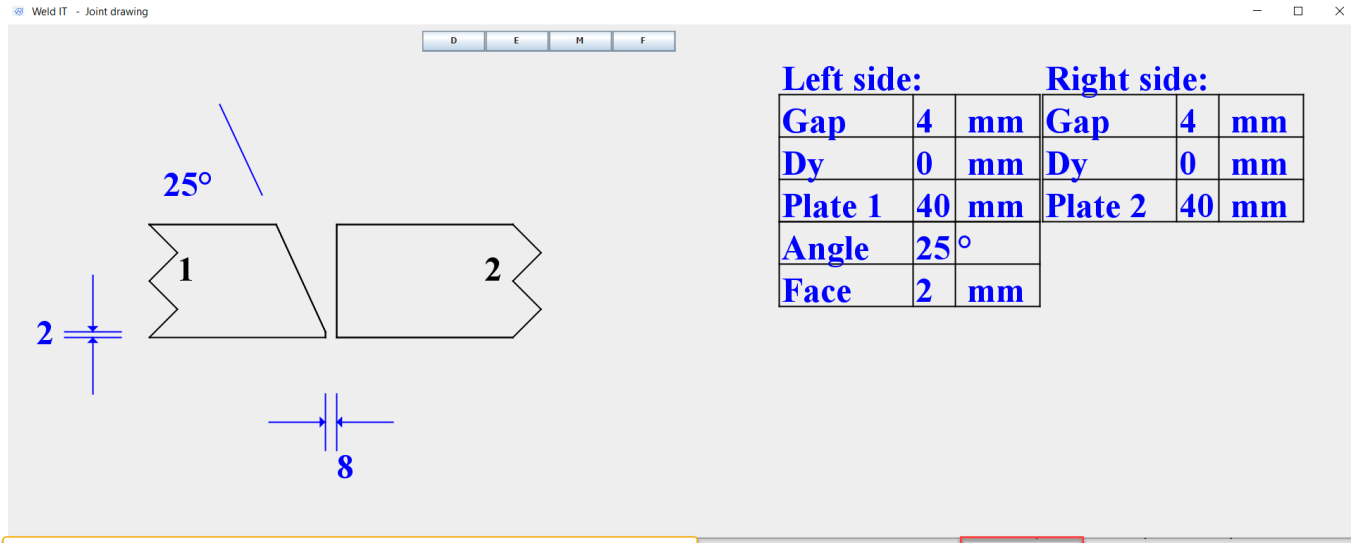
Weld IT - Joint drawing



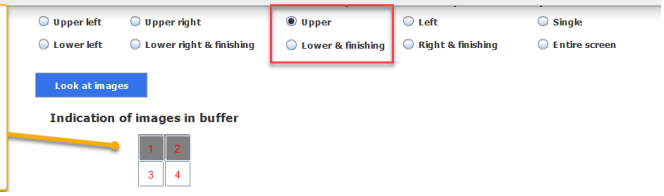
The final picture will look like this:



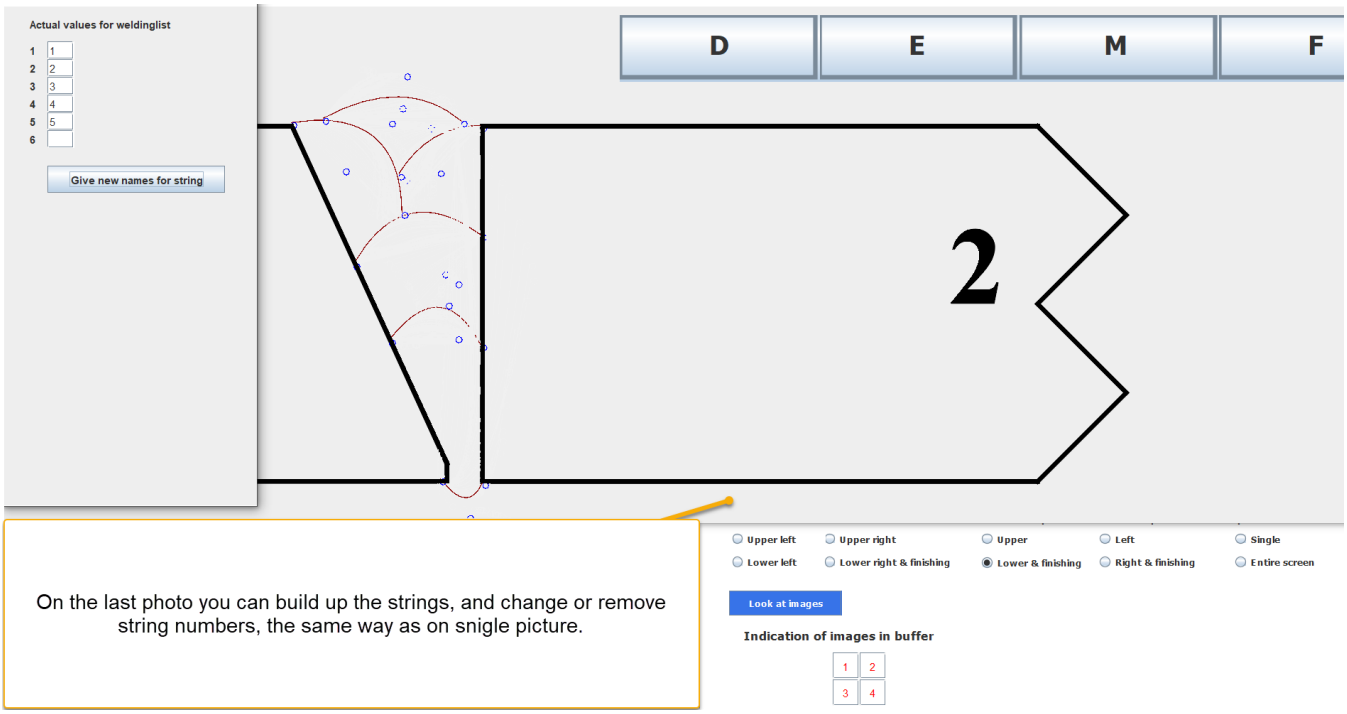
Creation of two pictures in one frame:



Here you can get the given values for both left and right side, on the upper picture. To create the string buildup picture below, you have to select the lower and finishing radio-button in the red box in this picture before you generate a new picture.

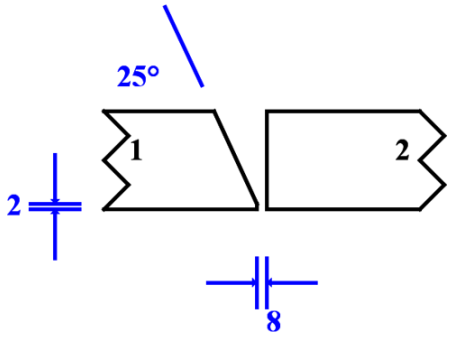


Picture nr 2:

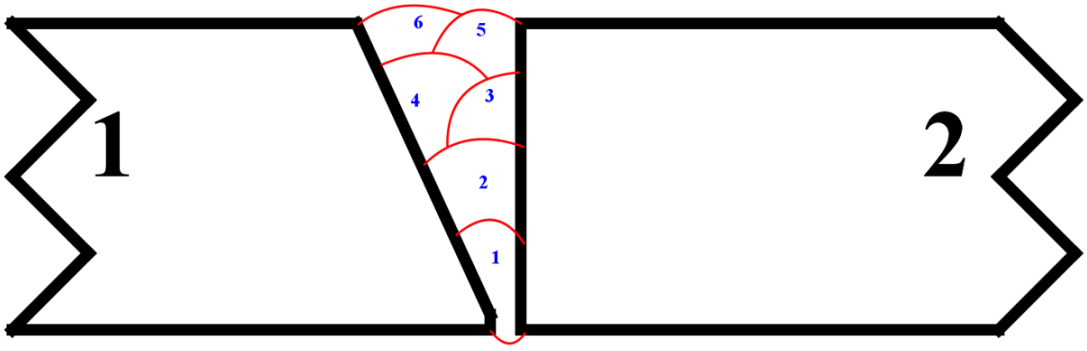


On the last photo you can build up the strings, and change or remove string numbers, the same way as on snigle picture.

When you have drawn the strings and corrected the string numbers. Will the last picture be created, and it will look like this. One small drawing with the given values, and one bigger to show the string buildup.



Left side:			Right side:		
Gap	4	mm	Gap	4	mm
Dy	0	mm	Dy	0	mm
Plate 1	40	mm	Plate 2	40	mm
Angle	25	°			
Face	2	mm			



Four pictures in one frame:

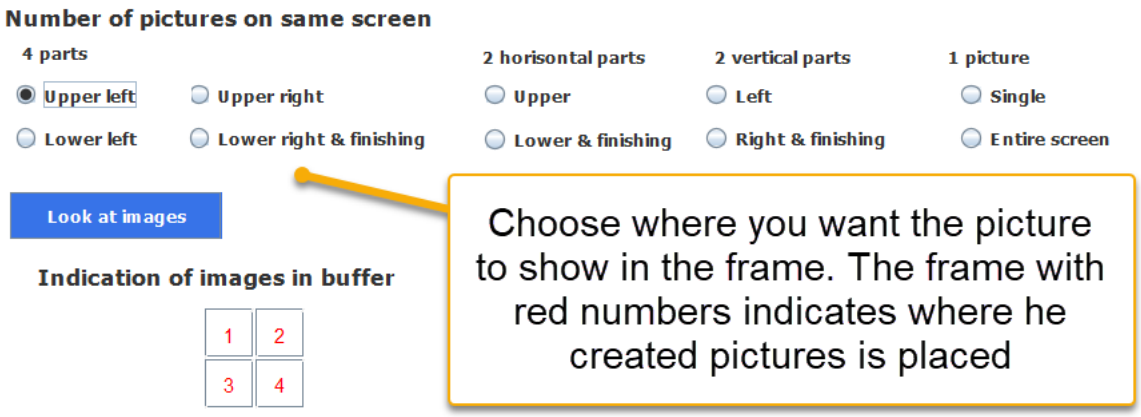


Illustration on 4 different welds in one frame. NB it`s important to choose where you want the picture,

if you don't choose a new place, the old picture will be overwritten if it`s in the same place.

Below is a picture of 4 different joints combined in a single frame: