

Copy and Paste Flanges

This example is slightly more complicated than most because of the part example we selected. The difference being the angle of how the bend comes off.

Before we get started a couple of items should be noted:

Note 1) The angle of a part in the Geometric Library is based upon the bend it was designed from. The geometry will be rotated to follow the bend line if it were laying horizontal.

Note 2) If the outside of a flange is updated to the Geometric Library, do not bring along the bend line. This will cause 2 lines on top of each other and difficult to remove the correct one.

This will be the part we create:



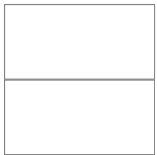
Start by creating the 1st flange:



To add the flange to the Geometric Library, select the "General" button on the right and "Create Item". The software will ask you to select the feature(s) you want to add to the library. Notice we have selected all but the one we will add the bend line to. Use the "Selection Complete" button at the top of the window. Now select the anchor location. Shown in our picture with the red circle. The software will now ask for a name. In our example, we gave it a name of "shock mount side".



Add the bend(s) as needed.



On the last flange we removed the lines of the flange except the bend line.



We are going to add or flange from the Geometric Library. One thing we are going to need to know is the angle the flange needs to be in relation to our new flange. To do this we need to find one of are angles. Select the "List" button in the "Flange" frame above the graphics window. This will bring down a list of flanges. Select "Base Flange". You will find the 1st flange now highlighted. Select the "Verify" button on the left and select the line on the right side of the flange. In our example we have an angle of 96.379 (we will use the 6.379) part of the number. This is the part that makes our example a little more difficult than what most uses will be of the library.



WARNING: Make sure you go back to our last flange. Select the "List" button in the "Flange" frame above the graphics window. This will bring down a list of flanges. Select last flange in the list. You will find our last flange now highlighted (should be just the bend line).

Now we will add the flange. Select the "General" tab and the "Paste Item" button. This will bring up the Geometric Library. Select the item you would like to use. In our example we need to "Mirror Vertically" and add an angle of -12.758 (This angle is double of what we verified in our case and also swings the other direction so we added the - [negative] sign). Now select the "OK" button.



Select the point that matches up to your anchor point:



Select the "Sheet/Bends"-----> "Definition" -----> "Define Flange" buttons. Select the new flange.



In our example the angle we added the new flange was outside of our tolerance window and gave us an error:



We used the Right Click of the mouse and windowed in several times and found we have a small gap. We added a small line using "2 points" and now it tracks properly.