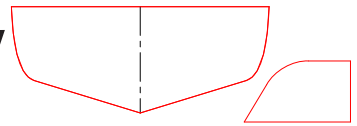



Export DXF to CorelDRAW

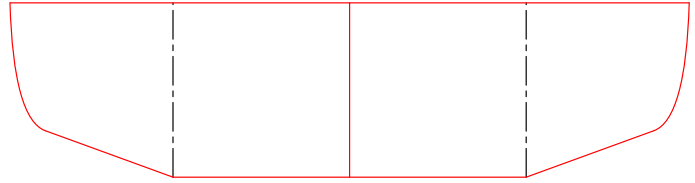


A. Export Fuselage/Tooth Sketch as DXF".

Step 1. Open your FUSELAGE part file.



Step 2. Roll the rollback bar to below the **Cut-Extrude1**. To rollback, click **Fillet1** in the Feature Manager and click **Rollback**  from the Content toolbar, **Fig. 1**.



Step 3. Click **Cut-Extrude1** in the Feature Manager and click **Edit Sketch**  on the Content menu, **Fig. 2**.

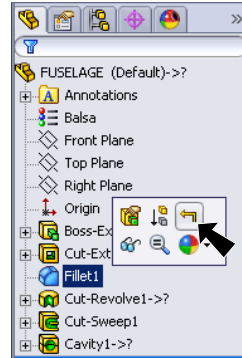


Fig. 1



Fig. 2

Step 4. Click **Normal To**  on the Standard Views toolbar. (**Ctrl-8**)

Step 5. Click File Menu > Save As.

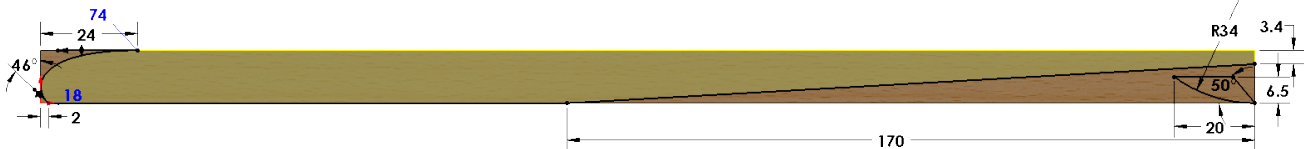


Fig. 3

Step 6. In the Save As dialog box, change **Save as type:** to **Dxf** and click **Save**, **Fig. 4**.

Step 7. Click **Save the Document without rebuilding**, **Fig. 5**.

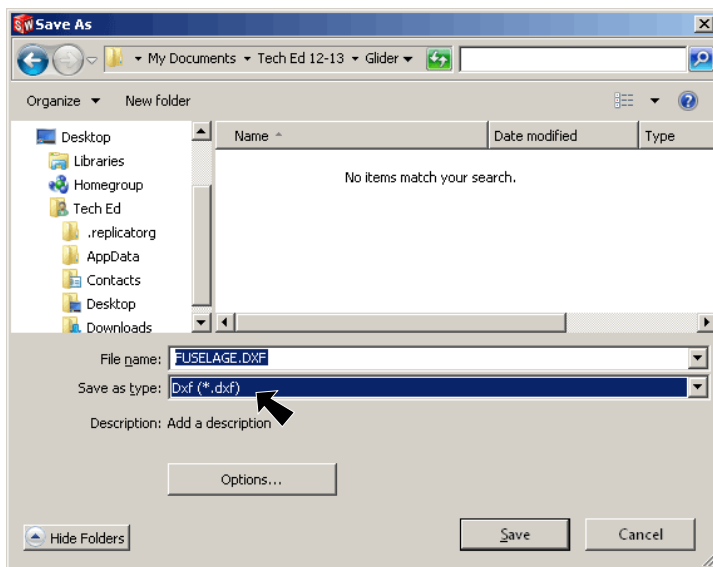


Fig. 4

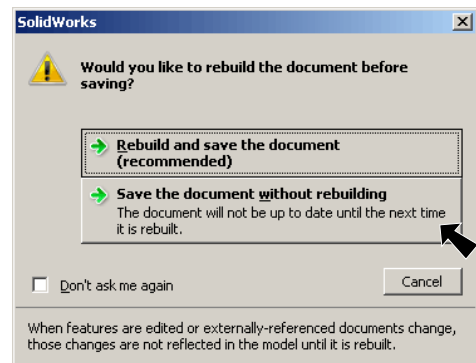


Fig. 5

Step 8. In the DXF/DWG Property Manager set:

under Export, **Fig. 6**
click **Annotation views**

under Views to Export
check **Current**

click OK .

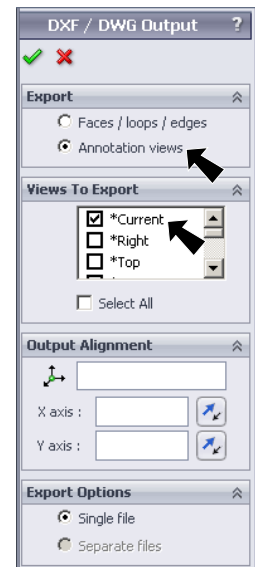



Fig. 6

Step 9. In the DXF/DWG Cleanup dialog box:

Use the **Zoom to Area**  in the View toolbar to drag a zoom window around the **front of fuselage**, **Fig. 7** and **Fig. 8**.

To **pan**, hold down **Ctrl** key and drag with middle mouse button (wheel).

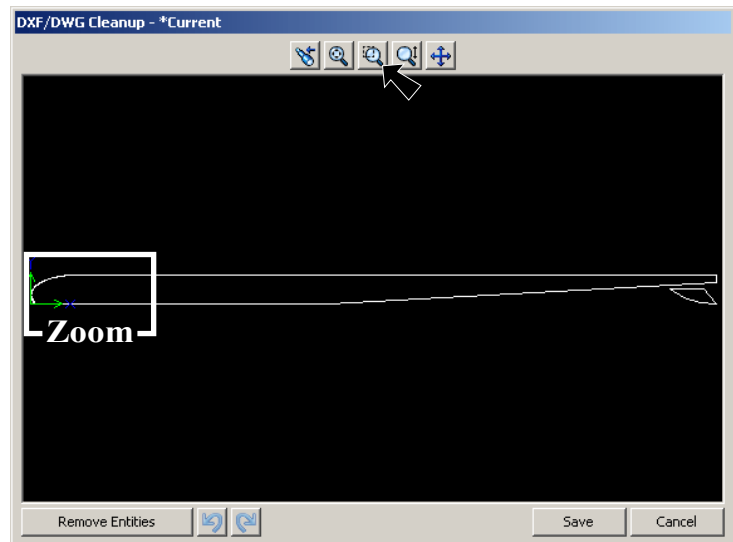


Fig. 7

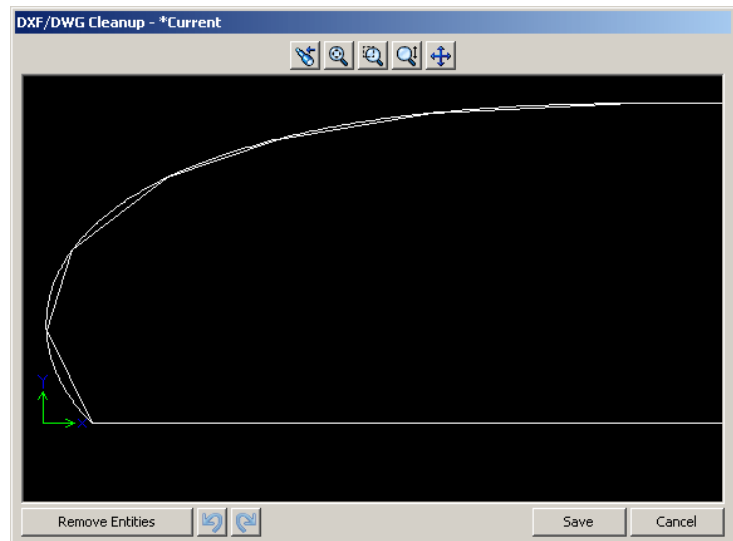


Fig. 8

Step 10. Remove the segmented spline.
 To remove, **select the segmented spline** and click **Remove Entities**, **Fig. 9** and **Fig. 10**.

Step 11. Click **Save**, **Fig. 10**.

Step 12. Close the Fuselage part file and **Don't Save**. Use File Menu > Close. **Don't** exit SolidWorks.

B. Open Fuselage DXF in CorelDRAW.

Step 1. Open your **FUSELAGE.DXF** file in CorelDRAW.

Step 2. In the Import AutoCAD file set:
 3D Projection **Top**, **Fig. 11**
 select **Metric** (1 unit = 1 mm)
 check **Auto-Reduce nodes**
 and click **OK**.

C. Set Units and Page Size.

Step 1. In the Property bar set:
 Units **millimeters**, **Fig. 12**

Page size

Width  300

Height  13

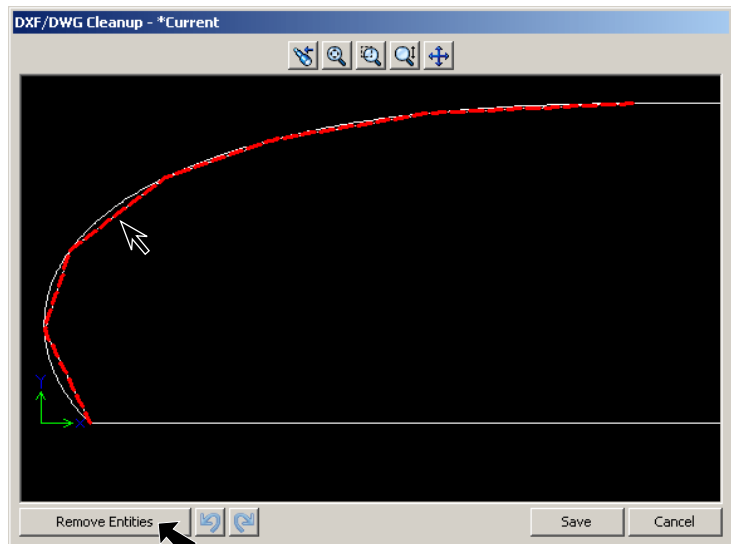


Fig. 9

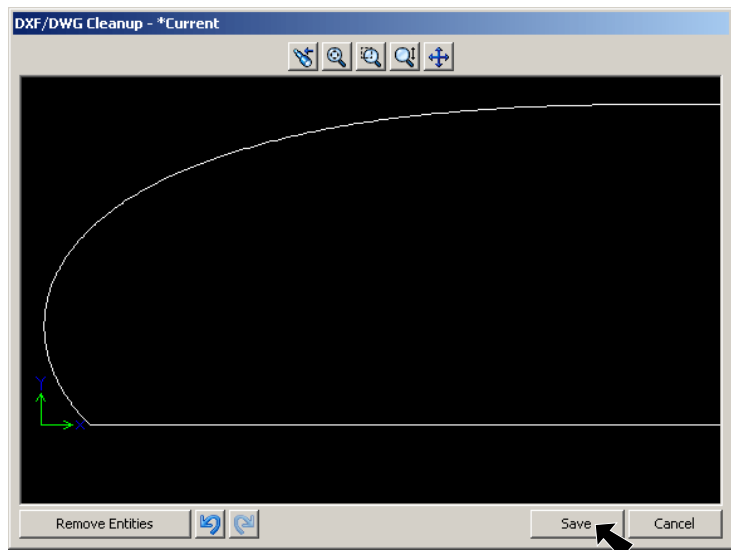


Fig. 10

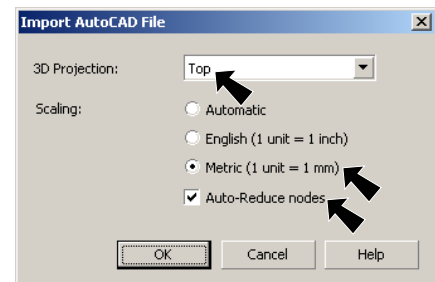


Fig. 11

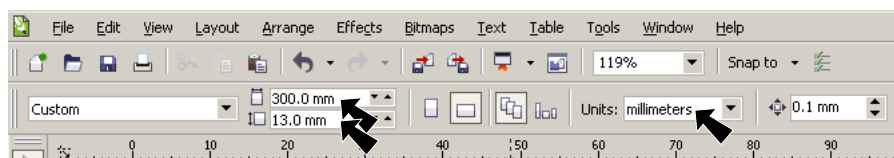


Fig. 12

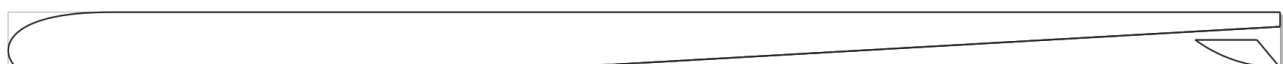
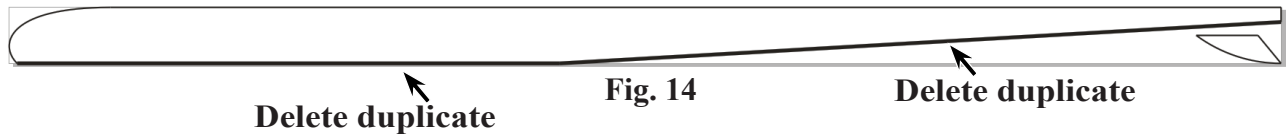


Fig. 13

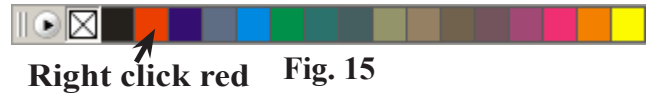
D. Delete Duplicate Lines.

Step 1. Delete **two** lines across bottom of Fuselage that are on top of lines (duplicate), **Fig. 14**. To delete, click a line and press Delete key on keyboard.

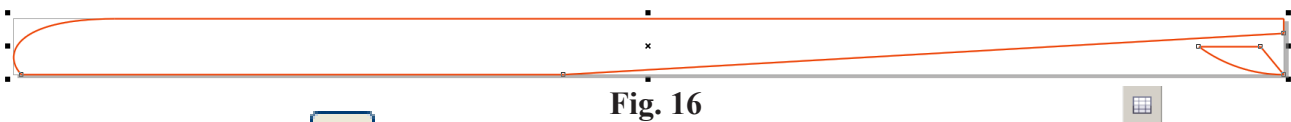



E. Set Color and Line Width.

Step 1. Use **Ctrl-A** to select all.

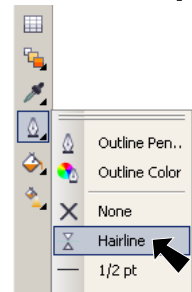


Step 2. **Right click red** in the **Color** palette to change the outline color to red, **Fig. 15**. Red is the cut color on laser.



Step 3. Click **Outline**  in the toolbox and **Hairline** from menu, **Fig. 17**. Hairline is the cut line width on laser.

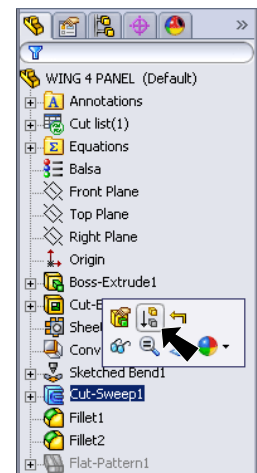
Step 4. Save the CorelDRAW file. Use **Ctrl-S** and click Save.



F. Export Wing as DXF".


Step 1. Back in SolidWorks, open your **WING** part file.

Step 2. Suppress features below the **SketchedBend1**. To Suppress, click **Cut-Sweep1** in the Feature Manager and click **Suppress**  from the Content toolbar, **Fig. 19**.



G. Mirror Sheet Metal.

Step 1. Click **Mirror**  on the Features toolbar.

- Step 2. In the Mirror Property Manager set:
- under **Mirror Face/Plane**, Fig. 20
 - right click top face of inboard panel** and click **Select Other** from the menu, Fig. 21
 - click root face of Wing**, Fig. 22
 - expand **Bodies to Mirror**
 - click the **Wing**, Fig. 23
 - click OK .

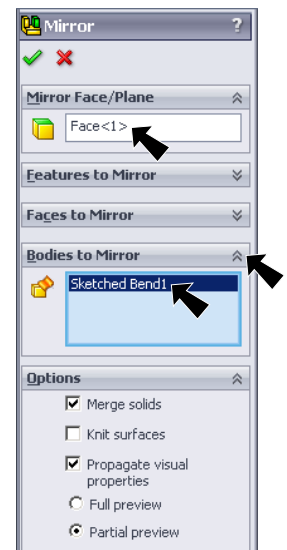


Fig. 20

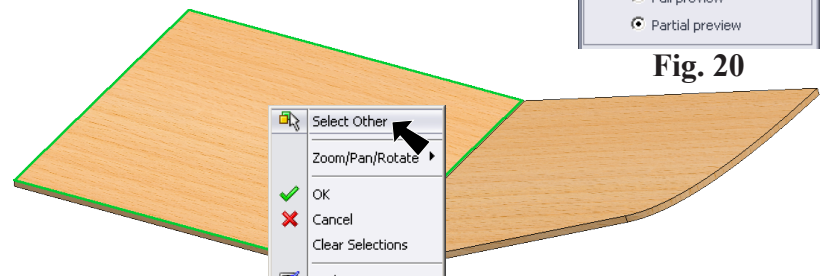


Fig. 21



Fig. 22

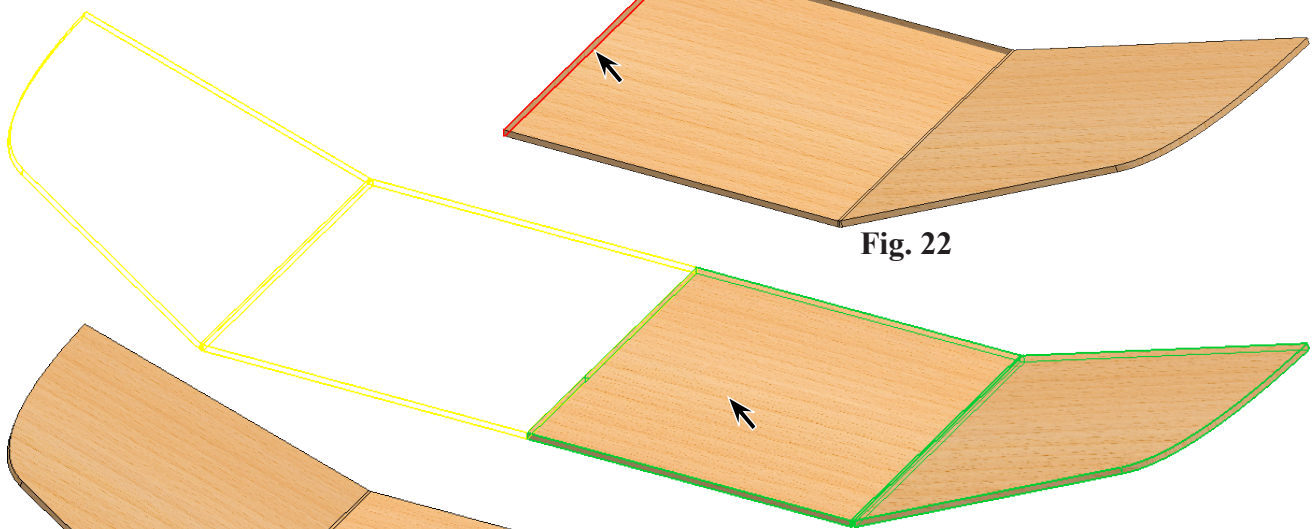


Fig. 23

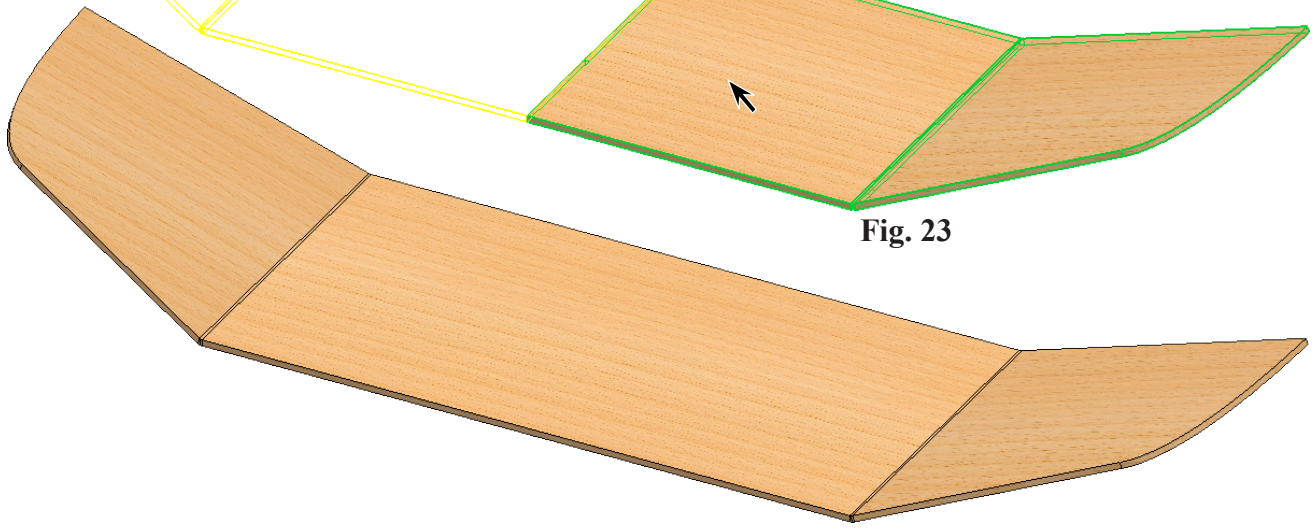



Fig. 24

H. Draw Line.

Step 1. Click the **top face of inboard panel** and click **Sketch**  on the Content menu, **Fig. 25**.

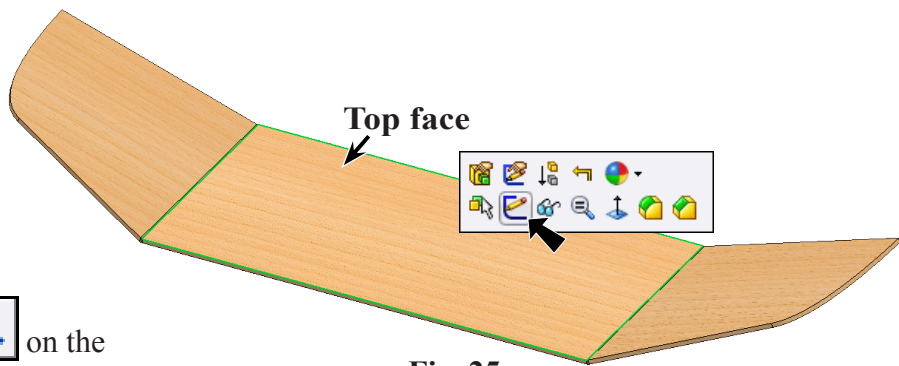



Fig. 25

Step 2. Click **Normal To**  on the Standard Views toolbar. (**Ctrl-8**)

Step 3. Click **Line**  (**L**) on the Sketch toolbar.

Step 4. Draw the vertical line (centerline) down through the Origin, **Fig. 26**. Start from the Midpoint of edge.

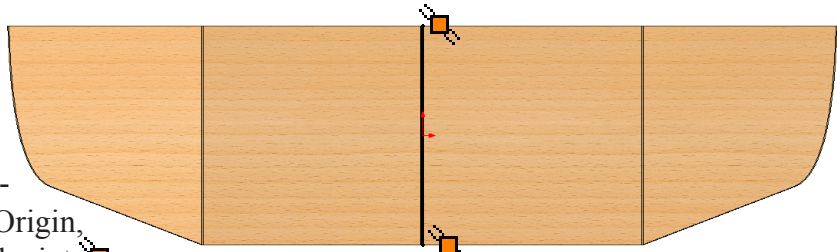


Fig. 26

Step 5. **Do not save Part file.**

I. Save As WING.DXF.

Step 1. Click File Menu > Save As.

Step 2. In the Save As dialog box:
change **Save as type:** to **Dxf** and click **Save**, **Fig. 27**.

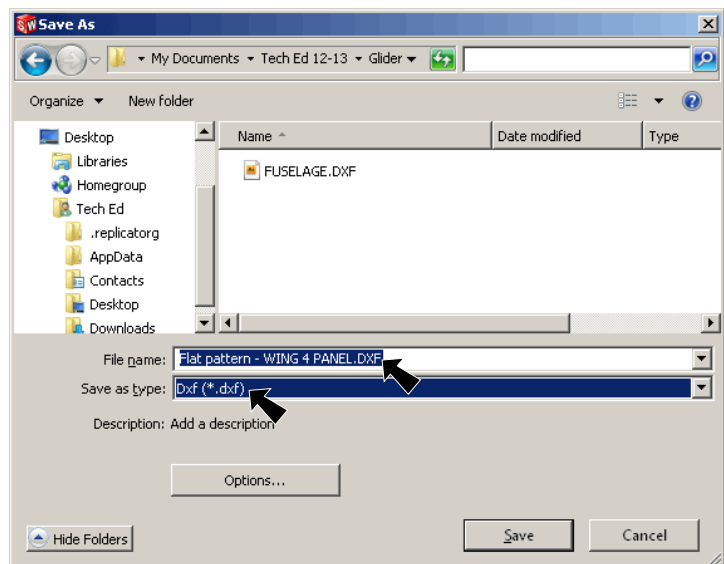



Fig. 27

Step 3. In the DXF/DWG Property Manager set:
 under Entities To Export, **Fig. 28**
 check **Bend lines**
 check **Sketches**
 click OK .

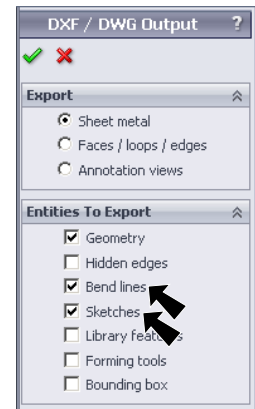


Fig. 28

Step 4. In the DXF/DWG Cleanup dialog box:
 Remove the extra line to the right of the centerline. To remove,
select line and click **Remove Entities**, **Fig. 29** and **Fig. 30**.

Step 5. Click Save, **Fig. 30**.

Step 6. Close the Wing part file and
Don't Save. Use File Menu >
 Close. **Don't** exit SolidWorks.

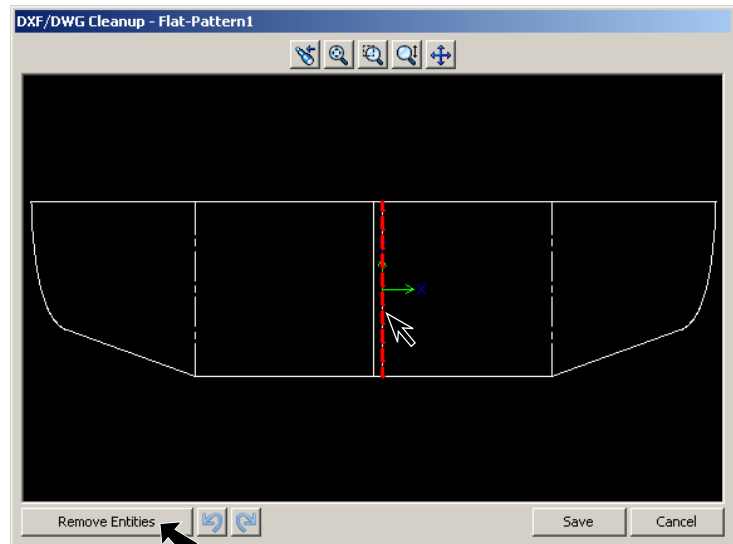


Fig. 29

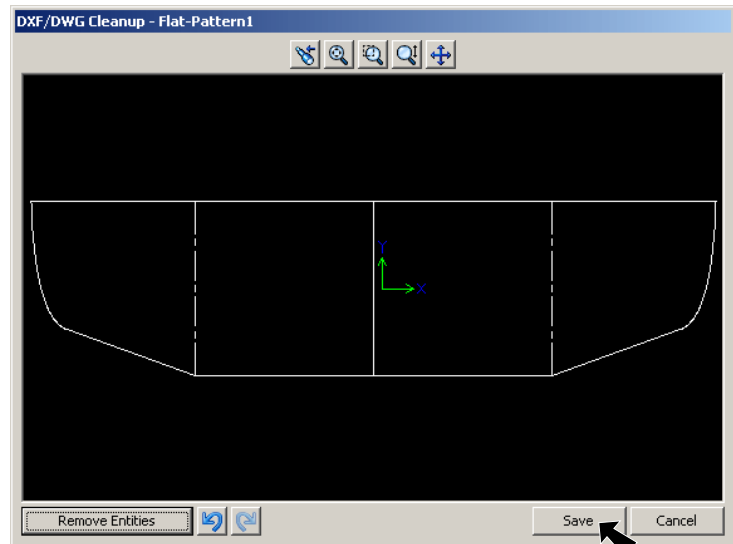


Fig. 30

J. Open Wing DXF in CorelDRAW.

Step 1. Open your **WING.DXF** file in CorelDRAW.

Step 2. In the Import AutoCAD file set:
 3D Projection: **Top**, **Fig. 31**
 select **Metric** (1 unit = 1 mm)
 and click OK.

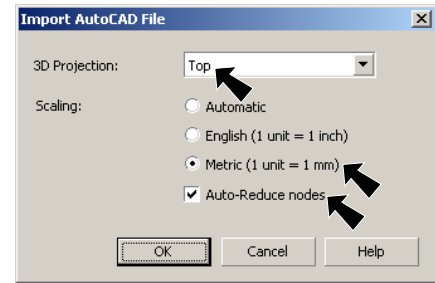


Fig. 31

K. Set Units and Page Size.

Step 1. In the Property bar set:

Units **millimeters**,
Fig. 32

Page size

Width **300**

Height **77**

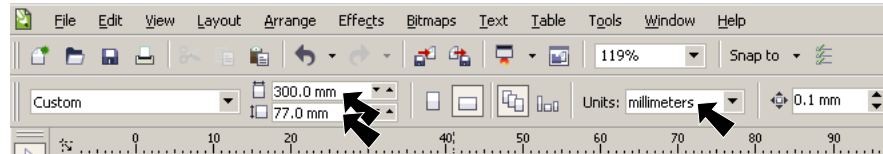


Fig. 32

L. Set Color and Line Width.

Step 1. Use **Ctrl-A** to select all.

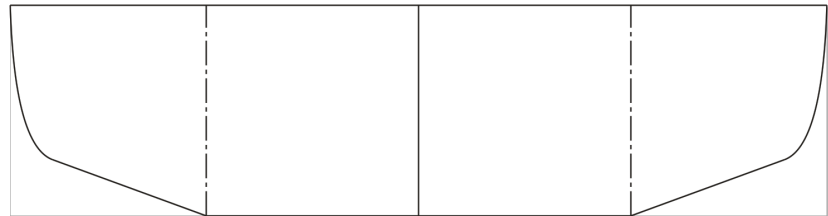


Fig. 33

Step 2. **Right click red** in the **Color** palette to change the outline color to red, **Fig. 34**. Red is the cut color on laser.



Right click red Fig. 34

Step 3. Click **Outline** in the toolbox and **Hairline** from menu, **Fig. 36**. Hairline is the cut line width on laser.

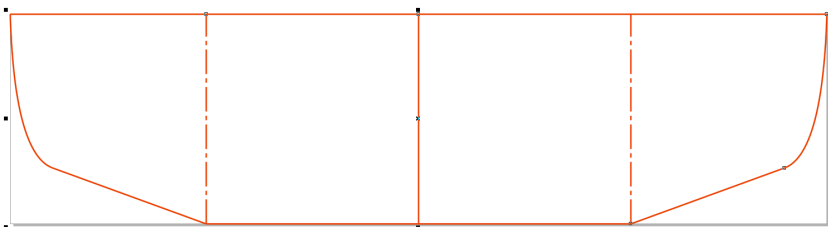


Fig. 35

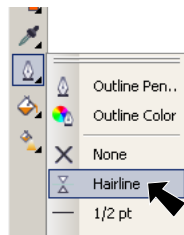


Fig. 36

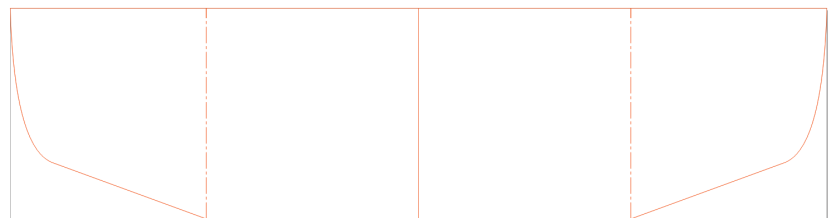


Fig. 37

Step 5. **Shift click both bend lines** and change to **Black 1/2 Stroke**, **Fig. 38**.

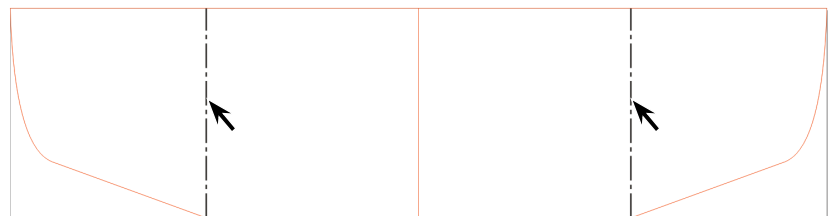



Fig. 38

Step 4. Save the CorelDRAW file. Use **Ctrl-S** and click Save.

M. Export Stabs as DXF".

Step 1. Back in SolidWorks, open your **H STAB** part file.

Step 2. Roll the rollback bar to below the **Cut-Extrude1**. To rollback, click **Fillet1** in the Feature Manager and click **Rollback**  from the Content toolbar, **Fig. 39**.

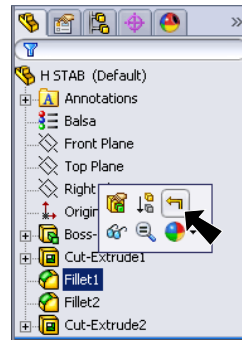


Fig. 39

Step 3. Click **Cut-Extrude1** in the Feature Manager and press **Delete** key on the keyboard, **Fig. 40**. Deleting the feature will prevent duplicate lines.

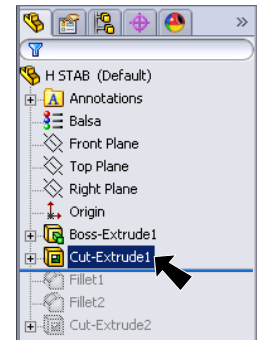



Fig. 40

Step 4. Click **Sketch2** in the Feature Manager and click **Edit Sketch**  on the Content menu, **Fig. 41**.

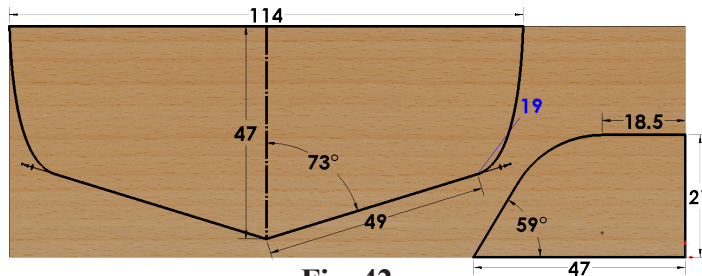


Fig. 42

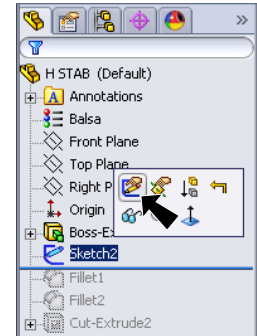



Fig. 41

Step 5. Click **Normal To**  on the Standard Views toolbar. (**Ctrl-8**)

Step 6. Click File Menu > Save As.

Step 7. In the Save As dialog box: key-in **STABS** for file name change **Save as type: to Dxf** and click Save, **Fig. 43**.

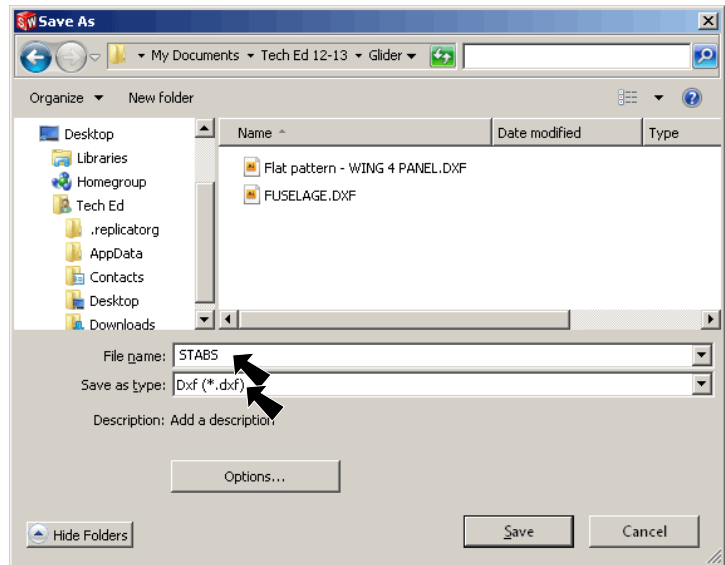


Fig. 43

Step 8. Click **Save the Document without rebuilding**, **Fig. 44**.

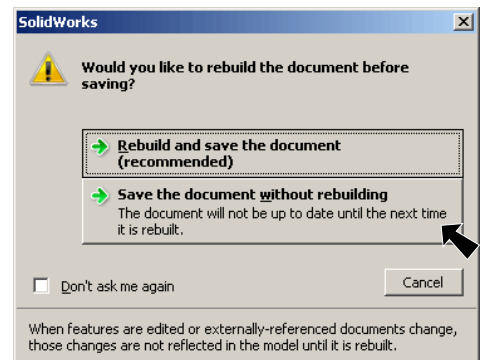



Fig. 44

Step 9. In the DXF/DWG Property Manager set:
under Export, **Fig. 45**
click **Annotation views**

under Views to Export
check **Current**
click OK .

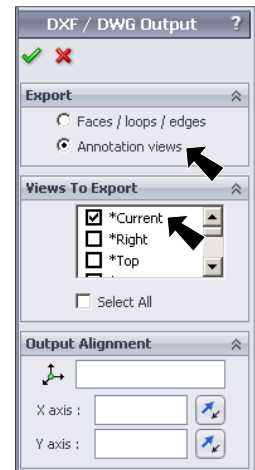


Fig. 45

Step 10. In the DXF/DWG Cleanup dialog box click Save, **Fig. 46**.

Step 11. Close the H Stab part file and **Don't Save**. Use File Menu > Close.
Don't exit SolidWorks.

N. Open Stabs DXF in CorelDRAW.

Step 1. Open your **STABS.DXF** file in CorelDRAW.

Step 2. In the Import AutoCAD file set:
3D Projection: **Top**, **Fig. 47**
select **Metric** (1 unit = 1 mm)
check **Auto-Reduce nodes**
and click OK.

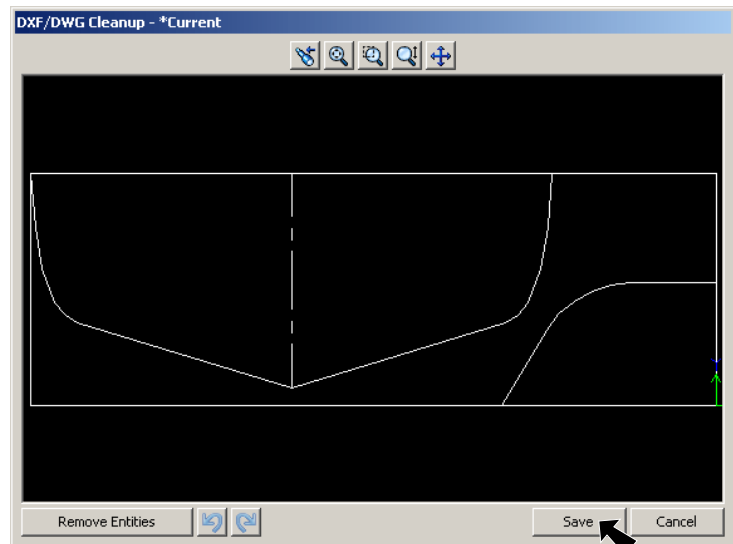


Fig. 46

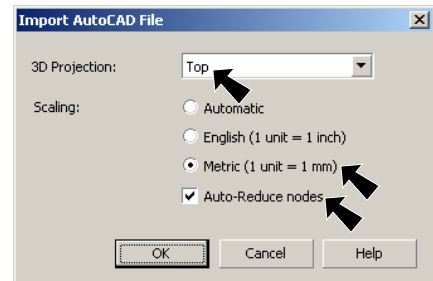


Fig. 47

