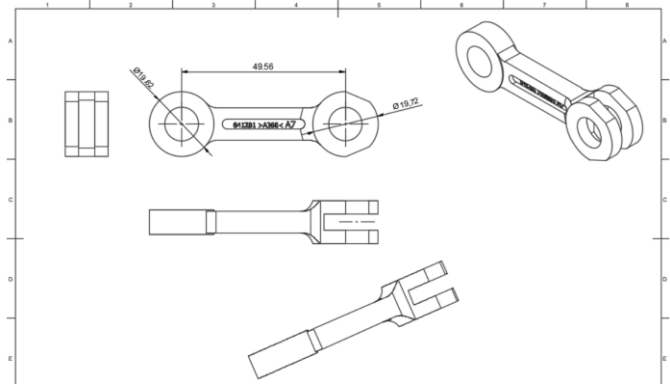


Practice exercise: Technical drawings

Create a detailed drawing with projected views.

Learning objectives:

- Create a 2D drawing.
- Place views on a drawing sheet.



The completed exercise

1. Open the supplied dataset **projected view.f3d**.



Figure 1. Uploaded design.

2. Create a new detailed drawing by accessing the workspace dropdown and selecting Drawing > From Design. Click OK to create the drawing.

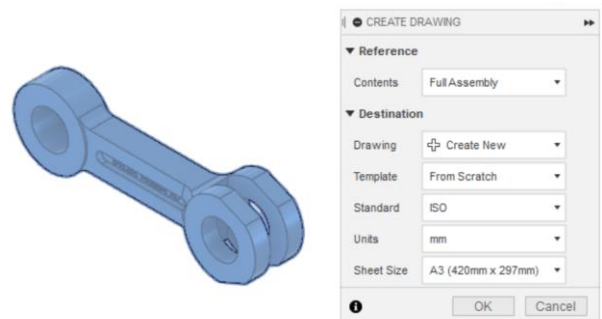


Figure 2. Create a new drawing

3. In the Drawing View dialog, change the Scale to be 2:1 for the initial base view. Set the Tangent Edges to be Full Length. Place the view in the upper-left corner of the drawing sheet. Click OK to confirm.

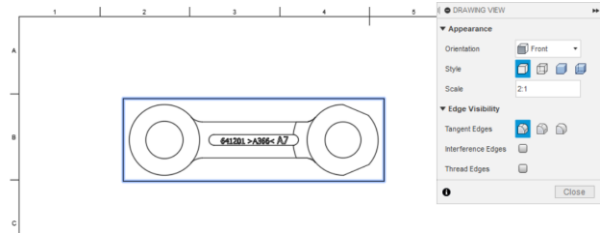


Figure 3. Insert base view

4. Use the Create > Projected View tool to add the projected views as shown.

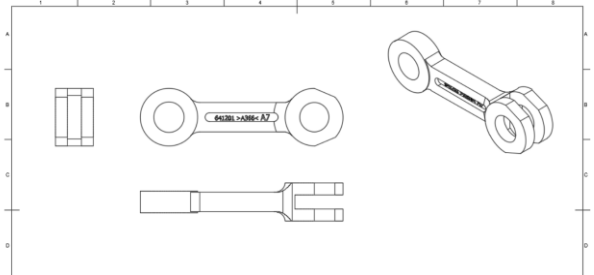


Figure 4. Show/Hide components in the Browser

5. Use Create > Auxiliary to create an auxiliary view angled from the bottom right edge of the initial base view as shown in Figure 5.

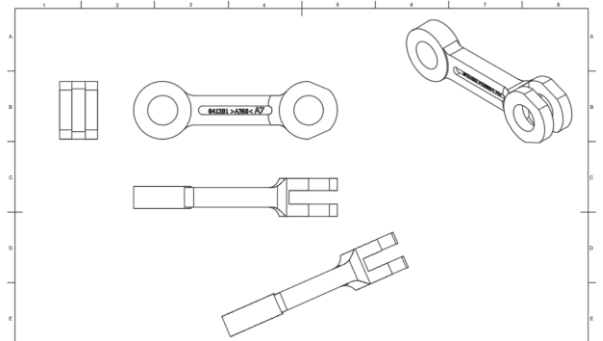


Figure 5. Apply As-built Revolute joint

6. Place a Centerline on the lower projected view.

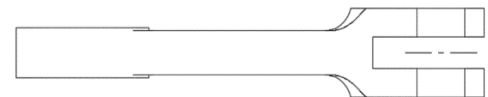


Figure 6. Add Centerline

7. Add center-marks to the base view hole locations

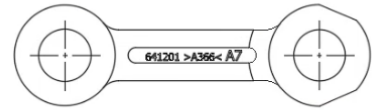


Figure 7. Add Center-Marks

8. Insert the dimensions to the base view as pictured in Figure 8 using the Dimension tool.

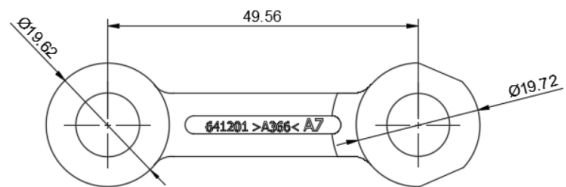


Figure 8. Insert dimensions

9. Explore the additional drawing elements available and save the design.

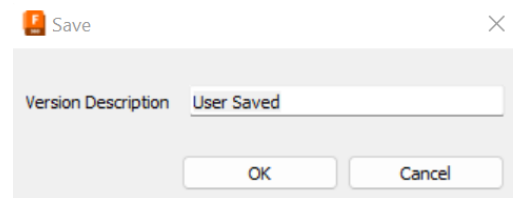


Figure 9. Save