

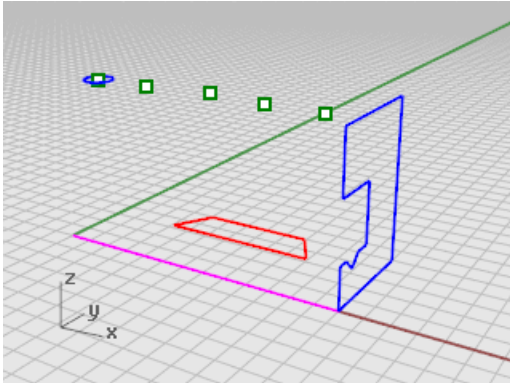
Chapter 20: Mechanical Part - Layouts

This example shows how to use Rhino to model a simple mechanical part. You will learn to create a layout with a title block for printing.



Open the tutorial model

1. From the Rhino **File** menu, click **Open**.
2. Browse to the **Tutorial Models** folder that you downloaded with the *User's Guide*.
3. Click **Toolblock.3dm** and then click the **Open** button.

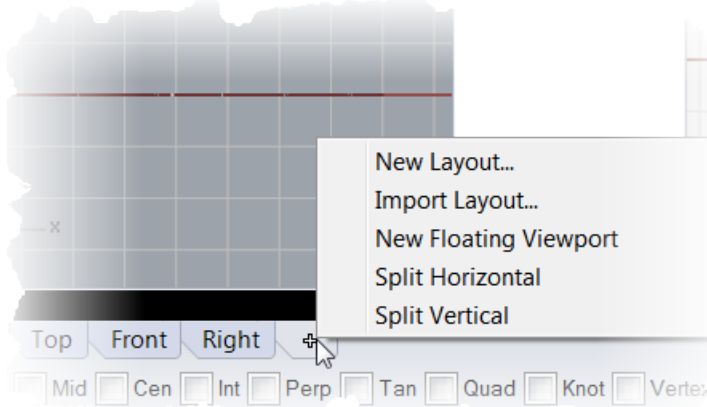


Layout viewports

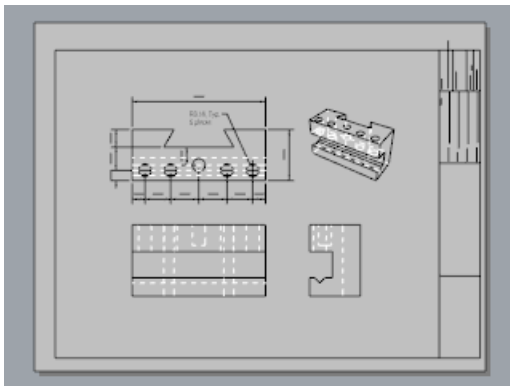
Use a layout to arrange the 2-D lines for printer.

+ Add viewport tabs

1. On the **Viewport tabs**, click the **Add new tab (+)** icon.
2. On the menu, click **New Layout**.



3. In the **New Layout** window, select the following:
 Orientation = **Landscape**
 Width = **11 inches**
 Height = **8.5 inches**
 Initial Detail Count = **1**
 Page 1 will appear in the viewport tabs.



Insert a title block

In this section you will add a title block and re-size the detail to fit.



Set up the layers

1. In the **Layers** panel, make the **Title Block** layer current.
2. Confirm that you are in layout space.



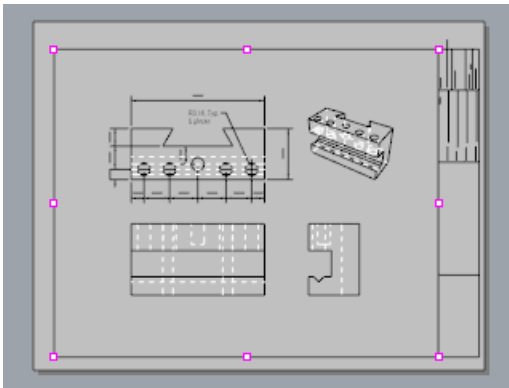
Insert the title block

1. On **Edit** menu, click **Block > Insert Block Instance**.
2. From the name list, select **Ansi_A_TB**.
3. Under **Insertion point**, check the **Prompt** box, and click **OK**.
4. **Select** the detail.



Note: Click on the detail edge to select it. Make sure the detail is not active.

5. On the **Edit** menu click **Control Points > Control Points On (F10)**.



6. Drag the control point in the lower left corner to re-size the detail to fit in the title block.
7. Press the **Esc** key to turn off the control points.



Lock the detail view

1. **Select** the detail.
2. On the **Edit** menu, click **Object Properties (F3)**.
3. In the **Properties** panel on the **Detail** page, under **Scale**, set the **inches on page** and **inches in model** to **1.0**.
4. Check the **Locked** box
This prevents future panning and zooming so the details stays the correct size.



Add print widths

1. In the status bar, right-click the **Layer pane** to open the **Layer** panel.
2. Click **Default** in the **PrintWidth** column, and set the values to the following:
Dimension = **.35**
Title Block = **.5**
Make2D > visible > lines = **.70**

The layout view displays a preview of the print widths as they will appear on the printed page.

