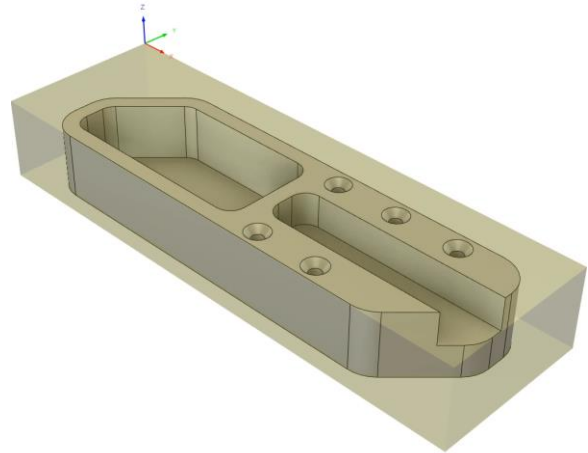


Lesson: Review a CAM Setup for a CNC Mill

In this lesson, you'll change a body's material and update a CAM setup.

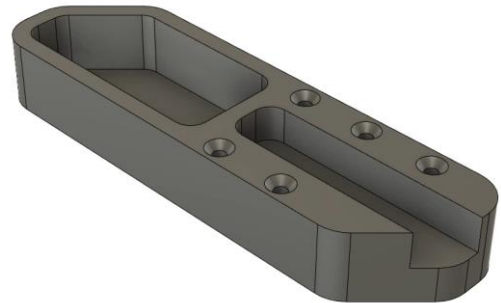
Learning Objectives

- Modify the physical material of a part.
- Edit a CAM setup.



The completed exercise

1. Upload and open the supplied *Introduction to Milling.f3d* file.



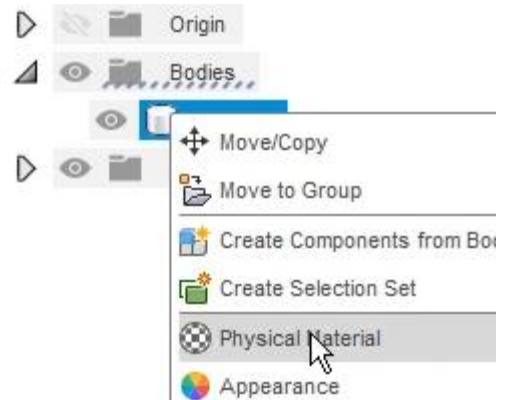
2. In the Browser, expand the Bodies folder and select Body1. Right-click it and choose Properties from the menu.



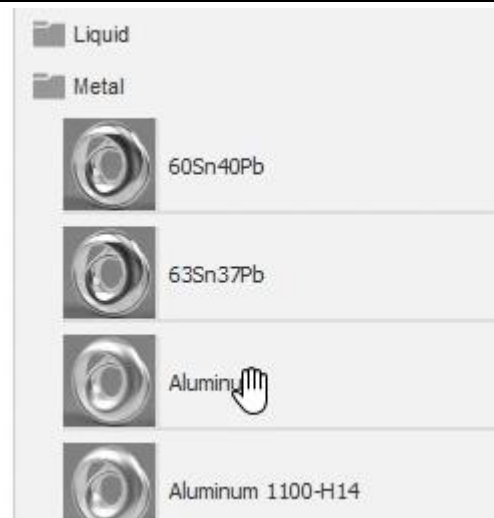
3. In the Properties dialog, note that the body's material is set to steel and the appearance has a satin steel look. Click OK to close the dialog.

Density	4.538 ounce-mass / in ³
Mass	34.651 ounce-mass
Volume	7.636 in ³
Physical Material	Steel
Appearance	Steel - Satin

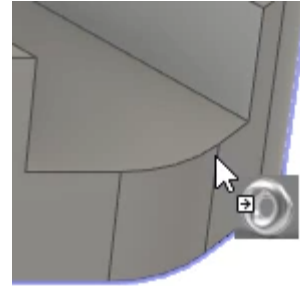
4. A body or component's material can be edited. Select Body1, right-click it, then choose Physical Material from the menu.



5. Navigate to the dialog's Library section, then expand the Metal folder. Locate the Aluminum material.



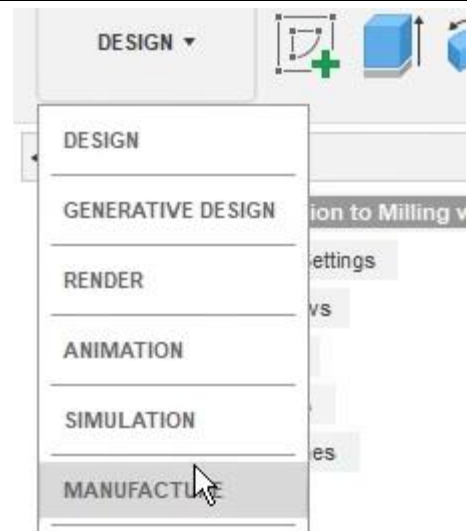
6. The Aluminum material can be applied to the body by dragging its icon and dropping it onto the body in the Canvas. Alternately, the icon could be dropped onto Body1 in the Browser. A third way to apply the material is to drag and drop it into the dialog's In This Design section. Choose one of these methods to apply the Aluminum material to the body, then click the dialog's Close.



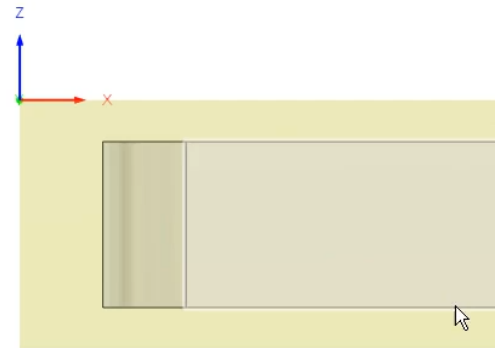
7. Select the top level the Browser, right-click it, then choose Properties from the menu. Notice the material has been changed to aluminum and the mass is significantly less. Click OK to close the dialog.

Area	55.087 in^2
Density	1.561 ouncemass / in^3
Mass	11.918 ouncemass
Volume	7.636 in^3
Physical Material	Aluminum

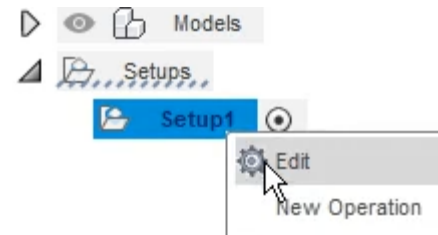
8. Navigate to the Manufacture workspace and notice that the file already has a setup.



9. Rotate to a front view and notice that the part has a lot of extra stock on all sides.



10. Use the Browser to edit Setup1.



11. In the Stock tab, decrease the Height (Z) value to **1.25**, choose the **Offset from bottom** option from the Model Position menu, then enter **0** into the Offset field. Inspect the stock and notice that all of the stock's extra height is added to the part's top.



12. Continue to the Post Process tab and enter **30001** into the Program Name/Number field. Click OK to accept the modifications to the setup. Save the file and continue to the next module.

