

## Practice

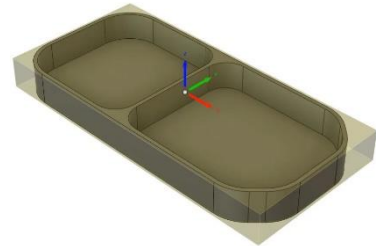
Practice: Create a new milling setup and a 2D contour operation with multiple finishing passes.

- Create a milling setup.
- Create a 2D contour operation.
- Use multiple finishing passes on an operation.
- Simulate a toolpath.

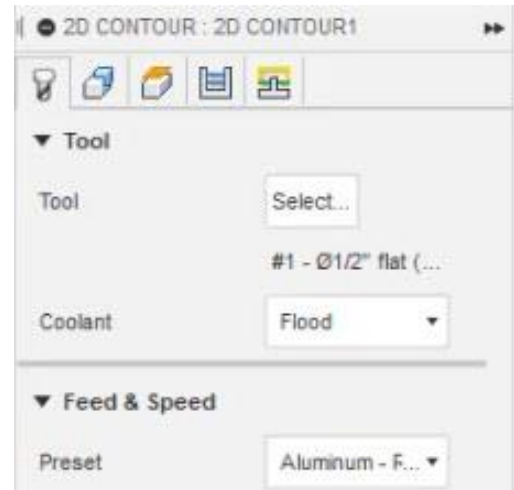
1. Upload the supplied dataset *spring pass* – *pe.f3d*.



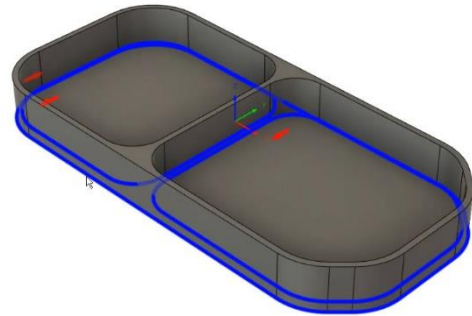
2. Navigate to the Manufacture Workspace and ensure the units are set to inch. Create a new milling setup with the WCS located at the top-center of the part with the stock being offset only on the sides of the part.



3. Create a 2D contour operation with a 1/2" flat endmill using the appropriate roughing defaults for the tool.



4. Set the geometry to both inside lower pocket edges and the outside boundary edge.



5. Set the passes to create multiple finishing passes. Set the number of finishing passes to 2 with a 0.05" stepover. Allow for multiple depths with a maximum roughing stepdown of 0.5".

2D CONTOUR : 2D CONTOUR1

Passes

Tolerance 0.0004 in

Sideways Compensi... Left (climb r...

Compensation Type In computer

Minimum Cutting Rad... 0 in

Finishing Smoothing ... 0 in

Multiple Finishing Pas... ☒

Number of Finishing ... 2

Stepover 0.05 in

Leads on all Finishin... ☐

Finish Feedrate 126.051 in/min

Repeat Finishing Pass ☐

Finishing Overlap 0 in

Lead End Distance 0 in

Outer Corner Mode Roll around c...

Tangential Fragment ... 0 in

Preserve Order ☐

Both Ways ☐

☐ Roughing Passes

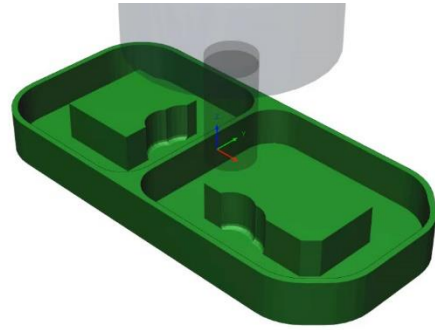
☒ Multiple Depths

Maximum Roughing E... .5 in

Finishing Stepdowns 0

Finishing Stepdown 0.008 in

6. Preview the operation.



7. Save the design.

