
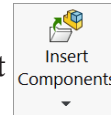


**A. New Component Part.**

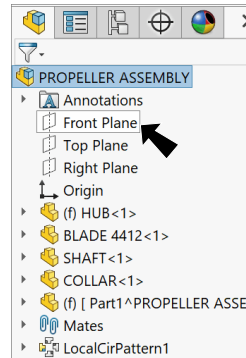
Step 1. Open your PROPELLER ASSEMBLY file.

Step 2. Click **New Part**  in the **Insert Components flyout** toolbar.



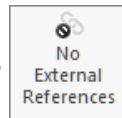
on the Assembly

Step 3. Click **Front Plane**  in the Feature Manager, **Fig. 1**.

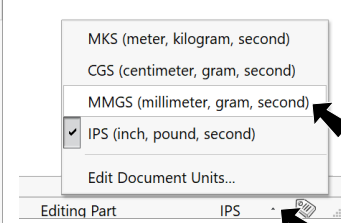


**Fig. 1**

Step 4. Confirm **No External References** on the Sketch toolbar should not be on (button should not be depressed).



Step 5. Set **document units to Millimeters**, **Fig. 2**. To set units, in the status bar at bottom right corner of the display, click Unit System, then select **MMGS** (millimeter, gram, second). Note that this will exit the sketch.






**Fig. 2**

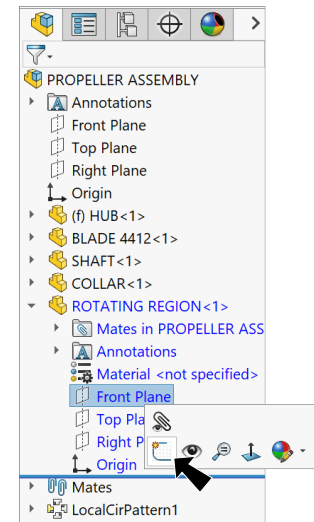
**B. Save as "ROTATING REGION".**

Step 1. Click File Menu > Save As.


Step 2. Key-in **ROTATING REGION** for filename and press ENTER.

**C. Extrude.**


Step 1. Expand **ROTATING REGION**  part in the Feature Manager, click **Front Plane**  and click **Sketch**  on context toolbar, **Fig. 3**.

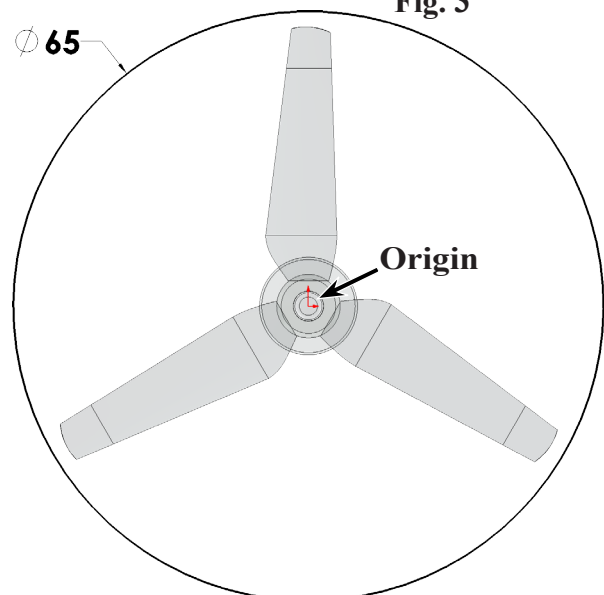


**Fig. 3**

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

Step 3. Click **Circle**  (**S**) on the Sketch toolbar.

Step 4. Sketch circle at the Origin , **Fig. 4**.




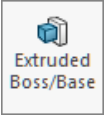
**Fig. 4**

Step 5. Click **Smart Dimension**  (**S**) on the Sketch toolbar..

Step 6. Dimension **diameter 65**, **Fig. 4**.

Step 7. Click **Right**  on the Standard Views toolbar. (**Ctrl-4**)

Step 8. Click **Features**  on the Command Manager toolbar.

Step 9. Click **Extruded Boss/Base**  on the Features toolbar.

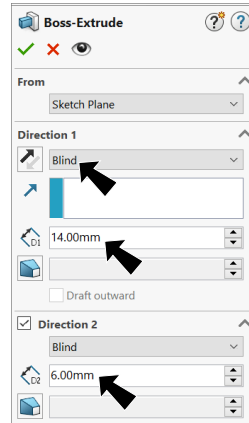
Step 10. In the Boss-Extrude Property Manager set:

under Direction 1, **Fig. 5**  
End Condition **Blind**

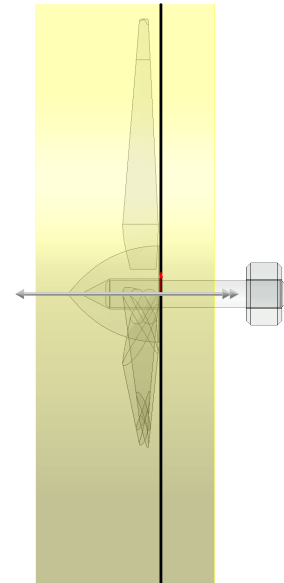
**Depth**  **14**  
under Direction 2

End Condition **Blind**

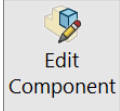
**Depth**  **6**  
click OK .




**Fig. 5**




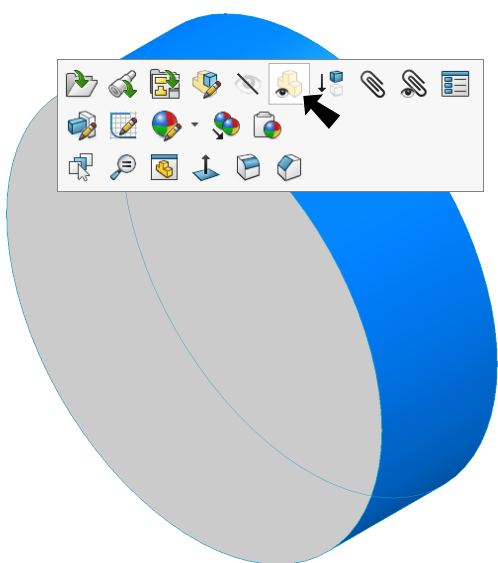
**Fig. 6**

Step 11. Click **Edit Component**  on the Features toolbar to exit.

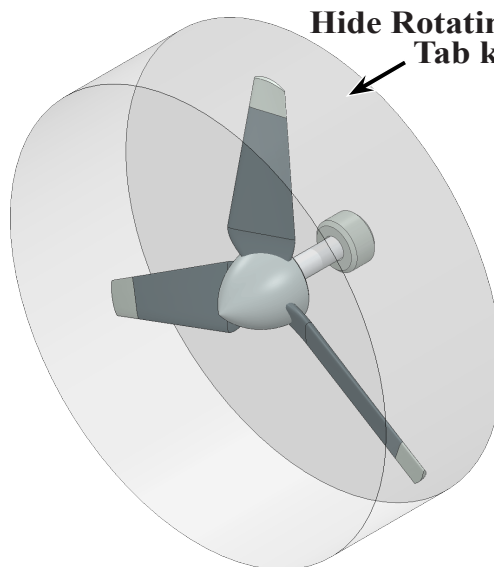
Step 12. Click **Isometric**  on the Standard Views toolbar. (**Ctrl-7**)

Step 13. **Change Transparency of Rotating Region**  part. To change, click the Rotating Region in graphics area and click **Change Transparency**  on the context toolbar, **Fig. 7**.

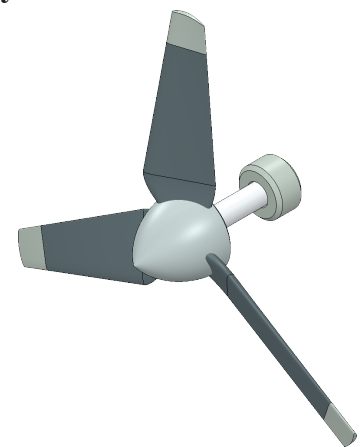
Step 14. **Hide Rotating Region**  part. To hide, move cursor over the part and press **Tab** key, **Fig. 8**.



**Fig. 7**



**Fig. 8**



**Fig. 9**

Step 15. Save All  (**Alt-F L**). File Menu > Save All.