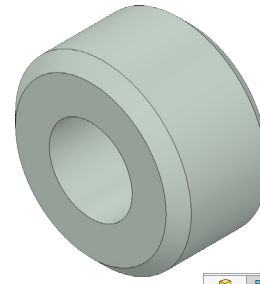




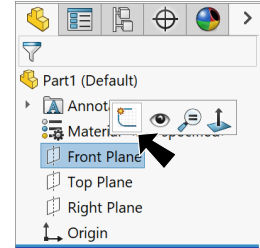
# Airmaster Collar



## A. Extrude.

Step 1. Click File Menu > New, click **Part Metric** and OK.

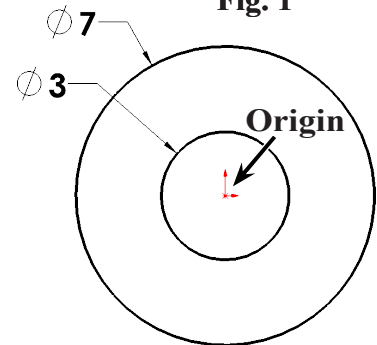
Step 2. Click **Front Plane**  in the Feature Manager and click **Sketch**  on the context toolbar, **Fig. 1**.



**Fig. 1**

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

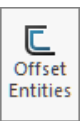
Step 4. Sketch two circles at **Origin** , **Fig. 2**.



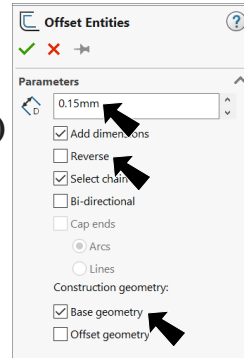
**Fig. 2**

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



Step 6. Dimension **diameters 7 and 3**, **Fig. 2**.

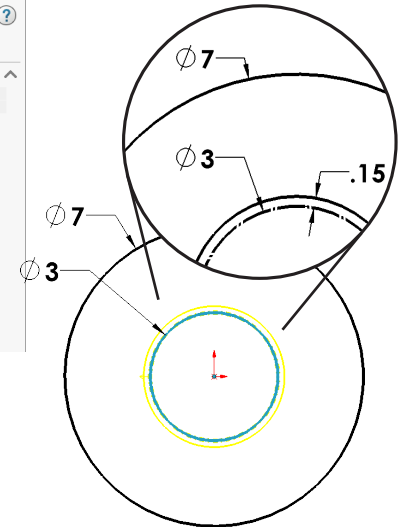
Step 7. Click **Offset Entities**  on the Sketch toolbar.

Step 8. In the Offset Entities Property Manager set:  
under Parameters, **Fig. 3**



**Fig. 3**

**Distance**  **.15 (clearance of Shaft)**  
 uncheck **Reverse**  
 under Construction geometry  
 check **Base geometry**  
 click **inside circle**, **Fig. 4**  
**Yellow offset circle on outside - base geometry (construction) on inside**  
 click OK .

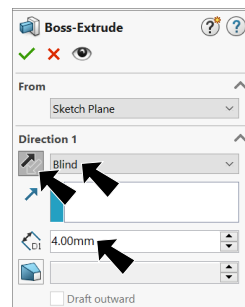


**Fig. 4**




Step 9. Click **Features**  on the Command Manager toolbar.

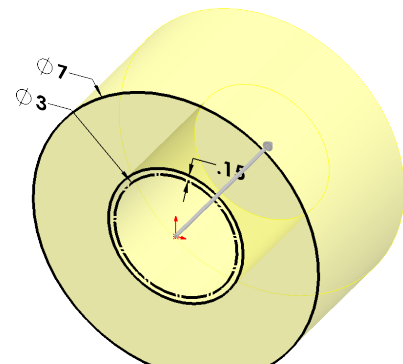
Step 10. Click **Extruded Boss/Base**  on the Features toolbar.

Step 11. In the Boss-Extrude Property Manager:  
under Direction 1, **Fig. 5**



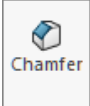
**Fig. 5**

End Condition **Blind**  
**Depth**  **4**  
**Reverse Direction**   
 click OK .



**Fig. 6**

## B. Chamfer.

Step 1. Click **Chamfer**  on the Features toolbar.

Step 2. In the Chamfer Property Manager set:  
under Chamfer Type, **Fig. 7**

select **Angle Distance**   
click both **outside circular edges**,  
**Fig. 8**

under Chamfer Parameters

Distance  .5

Angle  45°

click OK .

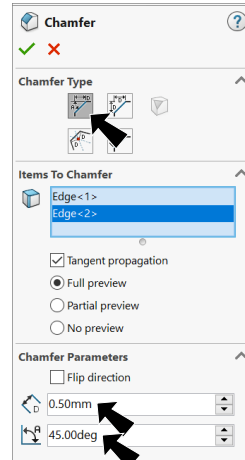


Fig. 7

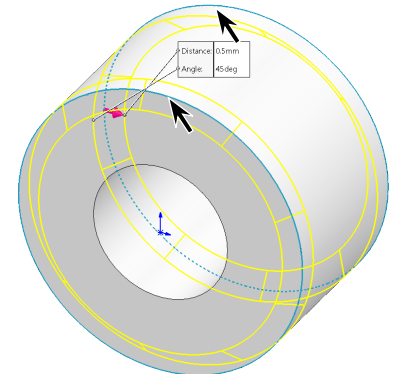




Fig. 8

## C. Save as "COLLAR".

Step 1. Click File Menu > Save As.

Step 2. Key-in **COLLAR** for the filename and press ENTER.

## D. Appearance: Light Green Satin Titanium.

Step 1. Click the part to select part, click **Appearances Callout**  on the context toolbar and click **COLLAR** , **Fig. 9**.

Step 2. In the Appearances Task pane, expand **Metal**, click **Titanium** and in the lower pane select **satin finish titanium**, **Fig. 10**.

Step 3. In the Appearances Property Manager set:  
under Color, **Fig. 11**

set **RGB values**

**R 185**

**G 198**

**B 189**

click OK .

Step 4. Save  (Ctrl-S).

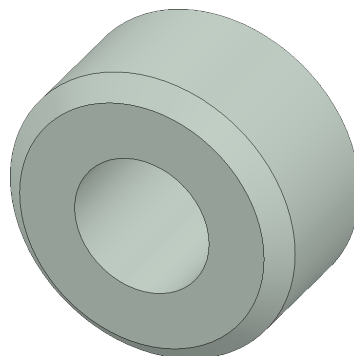


Fig. 12

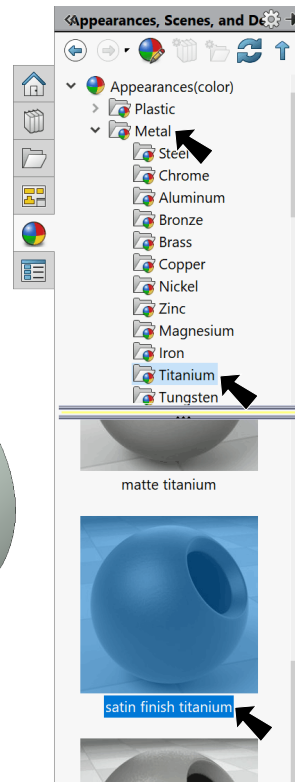


Fig. 10

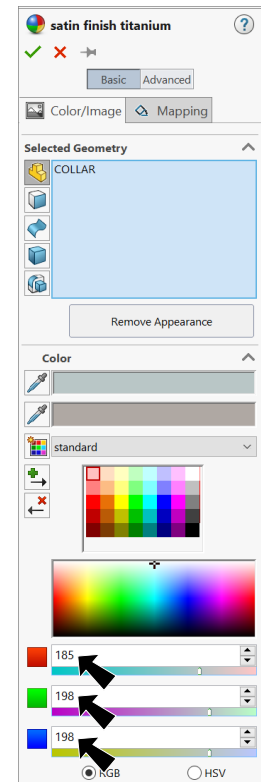


Fig. 11

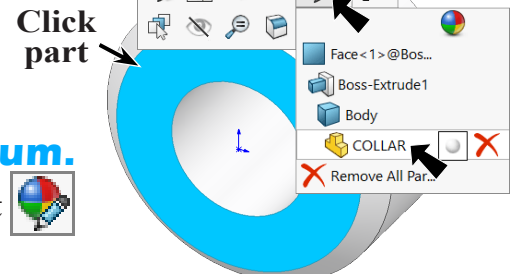


Fig. 9