



Foot Stool Dowel Pin



A. Dowel Pin.

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

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

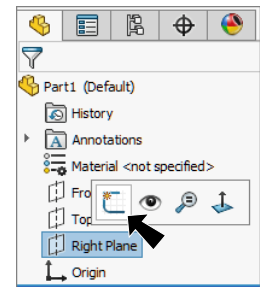


Fig. 1

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

Step 4. Sketch a circle starting at the Origin , **Fig. 2**.

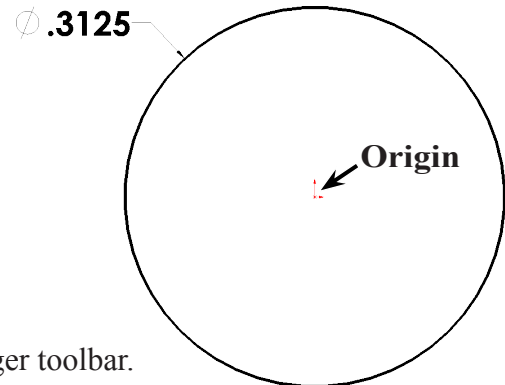


Fig. 2

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

Step 6. Dimension circle **diameter 5/16**, **Fig. 2**. The dimension will convert to decimal .3125.

Step 7. Click **Features**  on the Command Manager toolbar.

Step 8. Click **Extruded Boss/Base**  on the Features toolbar.

Step 9. In the Boss-Extrude Property Manager set:
under Direction 1, **Fig. 3**
End Condition **Mid Plane**

Depth  **1.3**
click OK .

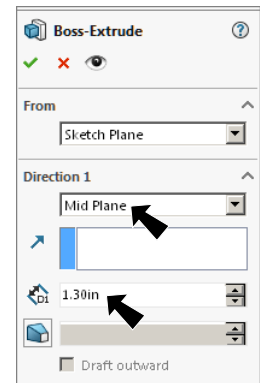


Fig. 3

Step 10. Click **Zoom to Fit**  (F) on the View toolbar.

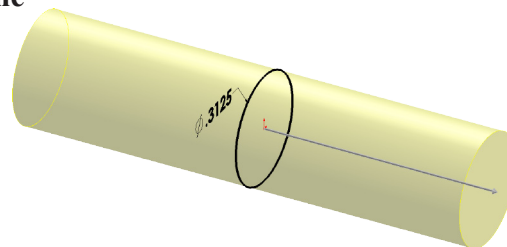


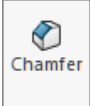
Fig. 4

B. Save as "DOWEL PIN".

Step 1. Click File Menu > Save As.

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

C. Chamfers.

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

Step 2. In the Chamfer Property Manager set:
under Chamfer Type, **Fig. 5**

select Angle Distance
click **both edges**, **Fig. 6**
under Chamfer Parameters

Distance  .04

Angle  45°

click OK .

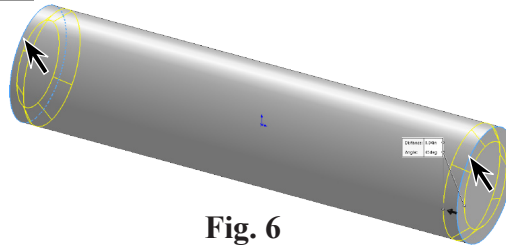


Fig. 6

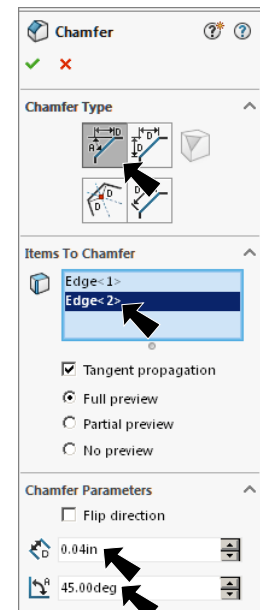



Fig. 5

D. Mate References.

Step 1. Click **Right Plane**  in the Feature Manager to select Plane, **Fig. 7**.

Step 2. Click **Reference Geometry**  on the Features toolbar and **Plane** from the menu.

Step 3. In the Mate Reference Manager:
under **Primary Reference Entity**, **Fig. 8**

set **Mate Reference Type**  **Coincident**
click OK .

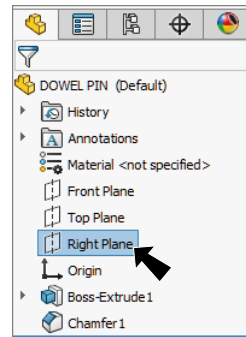


Fig. 7

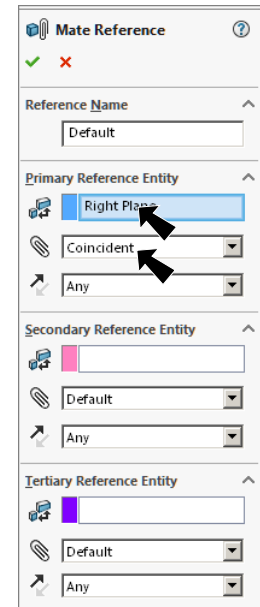


Fig. 8

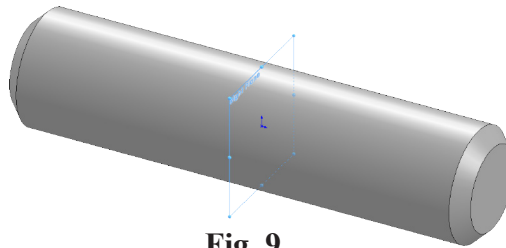


Fig. 9

E. Material Maple.

Step 1. **Right click** **Material**  in the Feature Manager and click **Edit Material**, **Fig. 10**.

Step 2. Expand **Woods** in the material tree and click **Maple**. Click **Apply** and **Close**, **Fig. 11**.

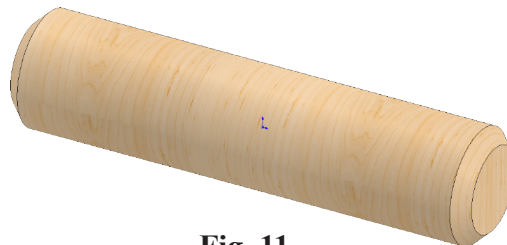


Fig. 11

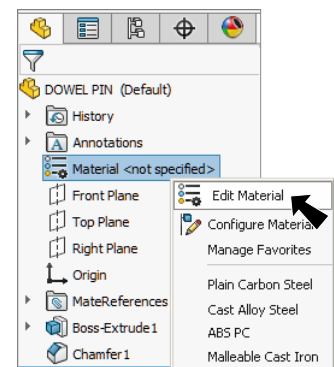


Fig. 10

F. Enable PhotoView 360.

Step 1. If necessary, turn on PhotoView 360, click the **flyout of Options**  on the Standard toolbar and click **Add-Ins**.

Step 2. In the dialog box for **PhotoView 360** check in the check box under **Active Add-Ins** and **Start-Up**, **Fig. 12**. Click OK.

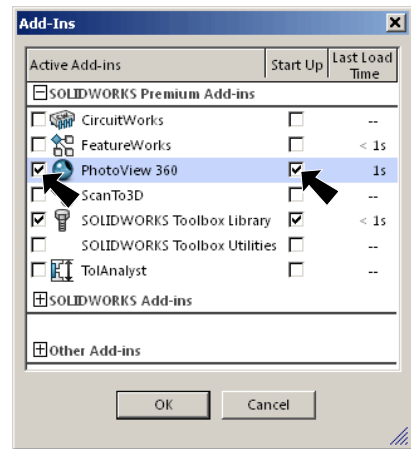
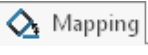



Fig. 12

G. Rotate Mapping.

Step 1. Click PhotoView 360 Menu > Edit Appearance.

Step 2. In the Property Manager:
click **Mapping tab** , **Fig. 13**
under Mapping controls
Rotation 90
click OK .

Step 3. Save. Use **Ctrl-S**.

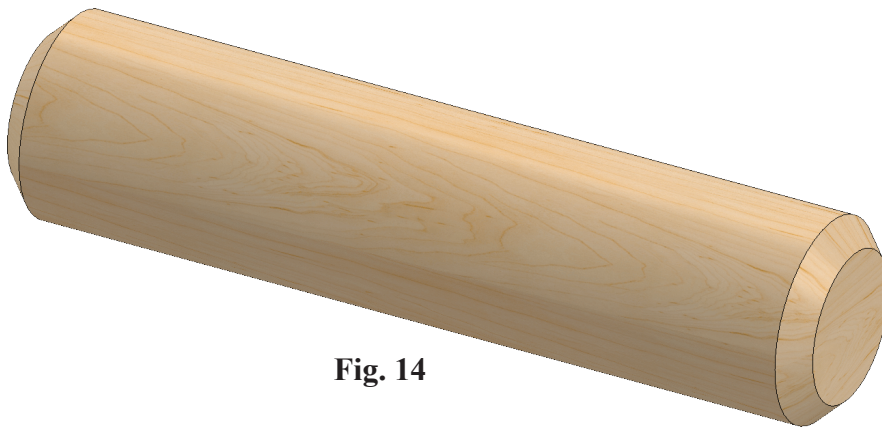


Fig. 14

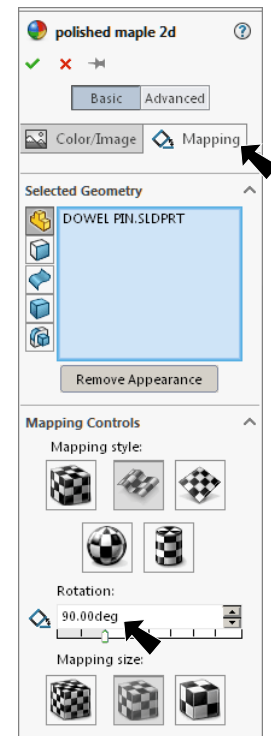


Fig. 13