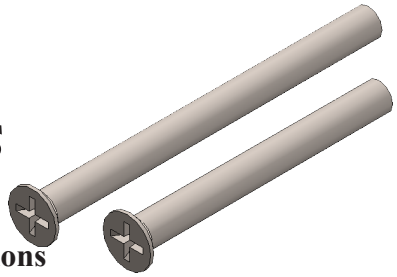
Chapter 12

Chair

Toolbox Screws



A. Enable Toolbox Library.

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

Step 2. Check **SOLIDWORKS Toolbox Library** to place a check in the both check boxes, then click OK, **Fig. 1**.

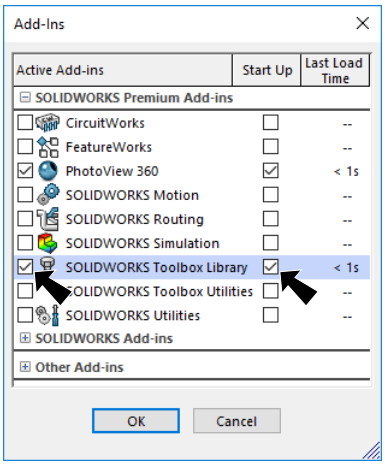
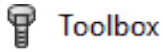
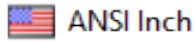


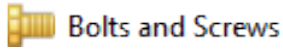
Fig. 1

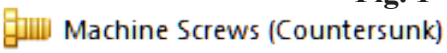
B. Design Library.

Step 1. Click the **Design Library** tab  in the Task Pane, **Fig. 2**.

Step 2. Expand the **Toolbox** 

Expand **ANSI Inch** folder 

Expand **Bolts and Screws** folder 

Click **Machine Screws (Countersunk)** folder 

Step 3. In the lower pane, **right click Flat Head Screw (100)** and click **Create Part**, **Fig. 2**.

Step 4. In the Property Manager set:
under Properties, **Fig. 3**
Size #8-32
Length 1.5
Drive Type Cross
click OK ✔ .

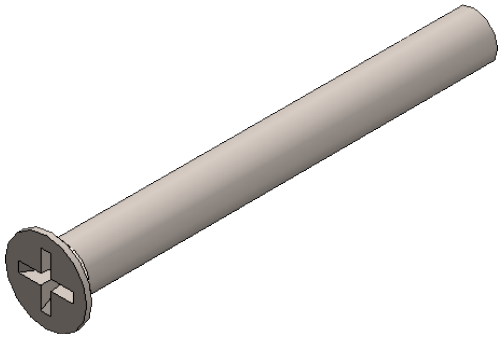


Fig. 4

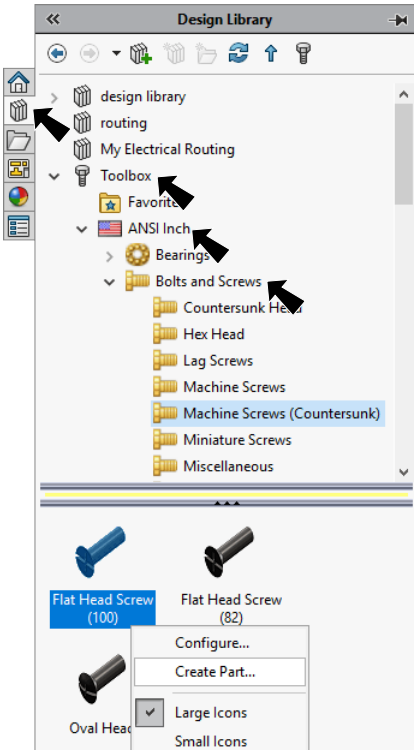


Fig. 2

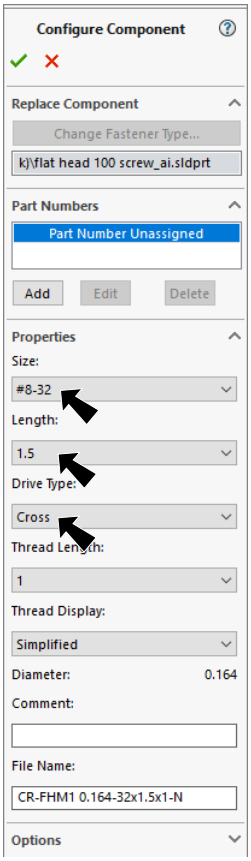


Fig. 3

C. Save As FLAT HEAD SCREW.

Step 1. Click File Menu > Save As.

Step 2. In the Save As dialog box: **Fig. 5**
key-in **FLAT HEAD SCREW** for the filename
in the Save in dialog box, **navigate to My Documents/Chair folder**
click Save button.

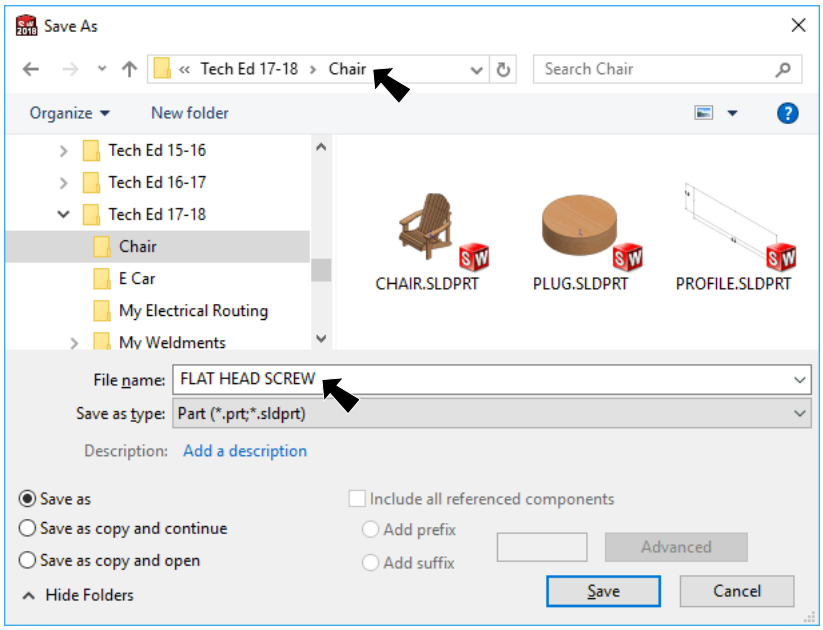


Fig. 5

D. Add Configuration.

Step 1. Click the Configuration Manager tab  at the top of the Feature Manager design tree, **Fig. 6**.

Step 2. **Right click** the configuration name  and click **Properties** from menu, **Fig. 6**.

Step 3. In the Configuration Properties Manager set:
under Configuration name, **Fig. 7**
select the **Configuration name and copy**, use **Ctrl-C**
under Description
key-in **1.5”**
check **Use in bill of materials**
click OK  .

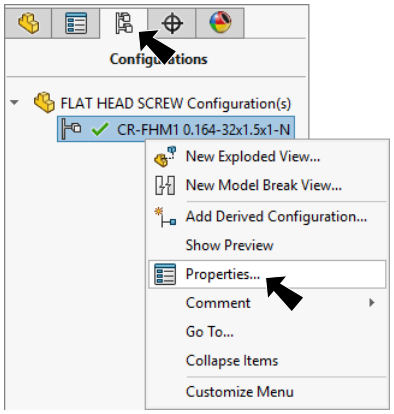


Fig. 6

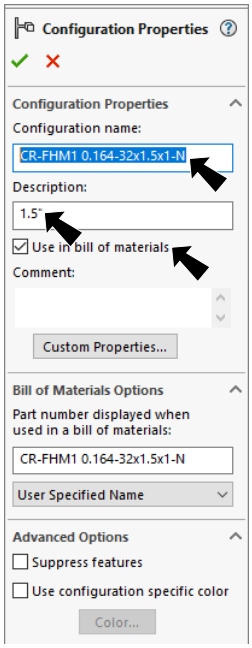


Fig. 7

E. Add Configuration for 2 Inch.

Step 1. **Right click FLAT HEAD SCREW** part name and click **Add Configuration** from menu, **Fig. 8**.

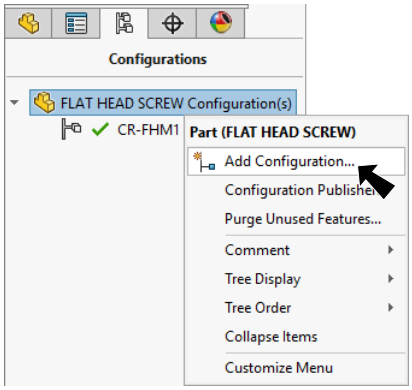


Fig. 8

Step 2. In the Add Configuration Manager set

under Configuration name, **Fig. 9**

click in the **Configuration name box and paste**, use **Ctrl-V**

change the 1.5 to 2 in the Configuration name

CR-FHM1 0.164-32x1.5x1-N

CR-FHM1 0.164-32x2x1-N

under Description

key-in **2”**

check **Use in bill of materials**

under Part number displayed when used in a bill of materials

select **Configuration Name**

click OK .

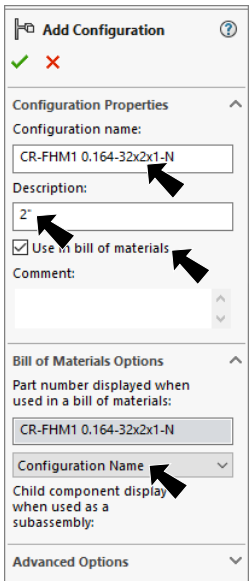


Fig. 9

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

F. Edit Sketch Length to 2 Inch.

Step 1. Click Feature Manager design tree tab at the top of the Configuration Manager, **Fig. 10**.

Step 2. Click **Base-Revolve** in the Feature Manager and click **Edit Sketch** on the context toolbar, **Fig. 10**.

Step 3. Change **length dimension from 1.5 to 2**, **Fig. 11**. To change dimension, double click the dimension and key-in new dimension, **Fig. 12**.

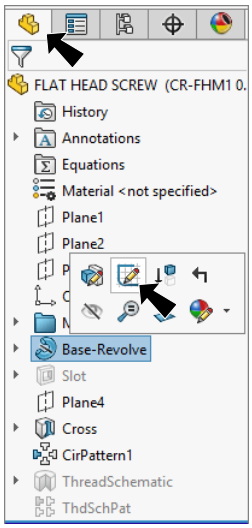


Fig. 10

Step 3. Click **Exit Sketch** on the Sketch toolbar.

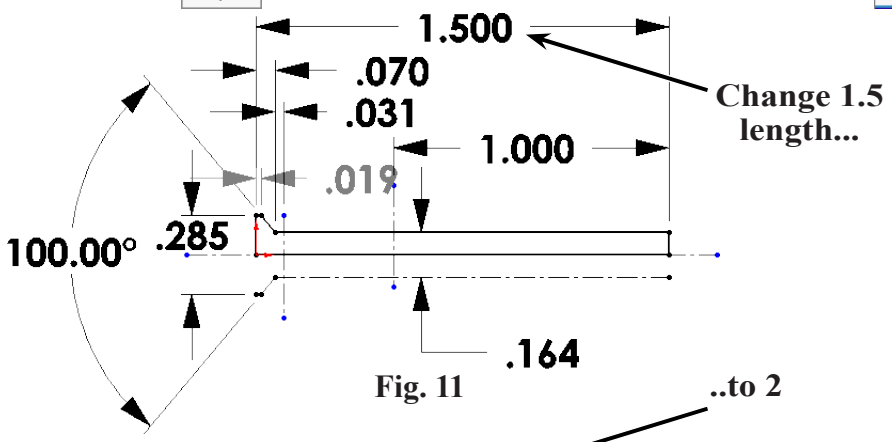


Fig. 11

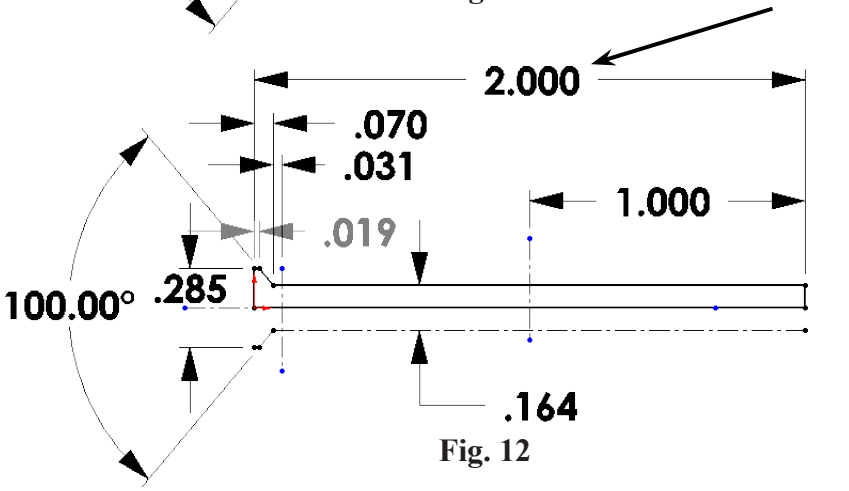


Fig. 12

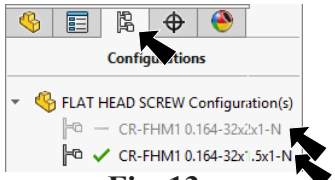


Fig. 13

G. Confirm Configurations.

Step 1. Confirm configurations. Click the Configuration Manager tab at the top of the Feature Manager design tree, **Fig. 13**.

Step 2. Double click on a configuration to switch configurations, **Fig. 13**. The length dimension changes in the graphic area, **Fig. 14**.

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

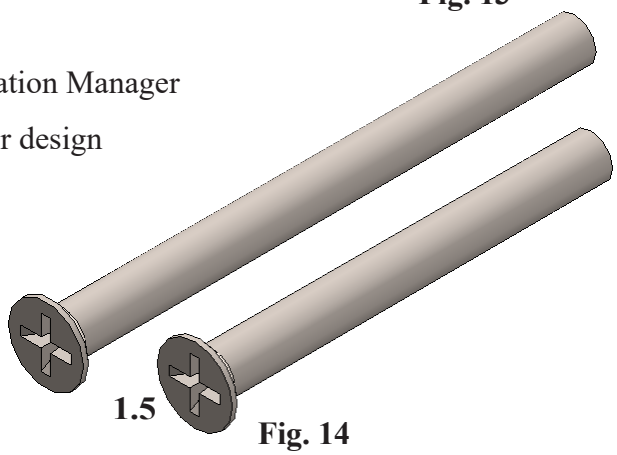


Fig. 14