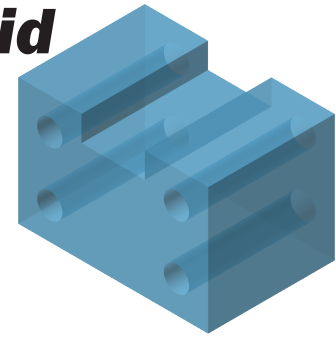



Channel Block Solid



A. Create Target Block.

Step 1. If necessary start a new Mastercam file, click **New**  on the Quick Access Toolbar QAT (**Ctrl-N**). Units **inches**.

Step 2. Change to the Isometric View. **Right click** in the graphics window and click  **Isometric (WCS)** (**Alt-7**).

Step 3. Confirm **CPLANE:TOP** in Status bar at bottom of the graphics window, **Fig 1**.

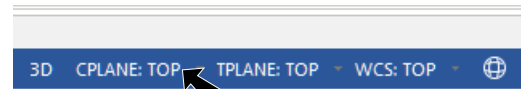
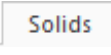



Fig. 1

Step 4. On the Solids tab  click **Block** .

Step 5. In the Primitive Block function panel:

- under Type, **Fig. 2**
- Solid**
- under Origin
- select **bottom left**
- under Dimensions
- Length 3**
- Width 2**
- Height 2** and press ENTER

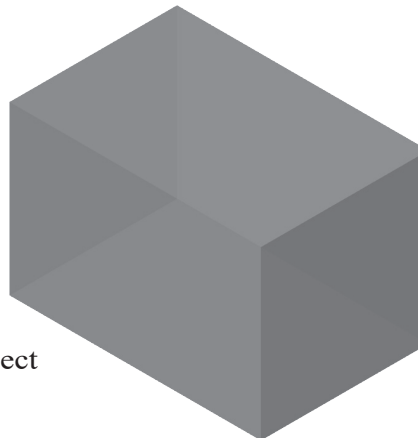


Fig. 3

Press **O** key on keyboard to select Auto Cursor **Origin** override and press ENTER.

Click OK .

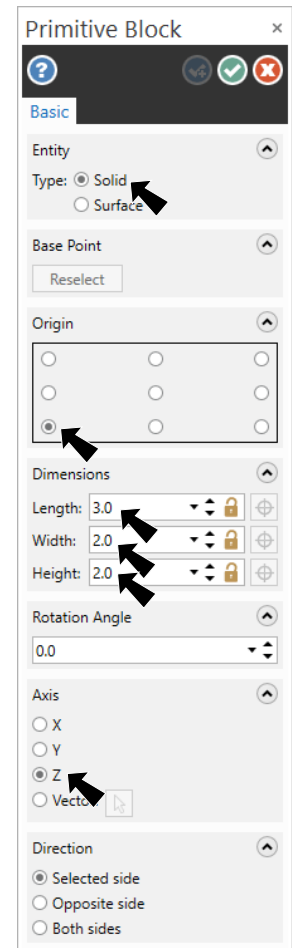


Fig. 2

Step 6. Use **Ctrl-T** to toggle **Translucency**.

B. Save As "CHANNEL BLOCK"

Step 1. Click **Save As**  (**Ctrl-Shift-S**) on the Quick Access Toolbar QAT.

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

C. Change Solid Color.

Step 1. Click the **solid body** to select it, **Fig. 4**.

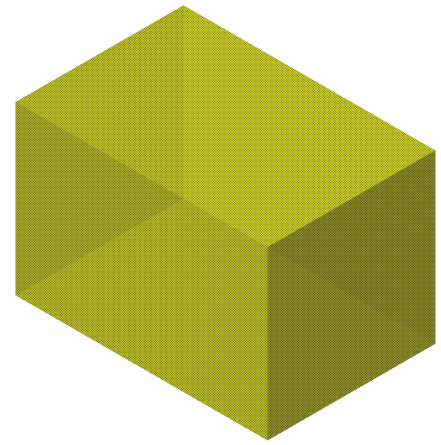




Fig. 4

Step 2. **Right click** in the graphics window and on the Mini Toolbar click **Solid Color**  drop down arrow, then click **More Colors**, **Fig. 5**.

Step 3. In the Color dialog box **key-in 69** in the Current color input box and click **OK** , **Fig. 6**.

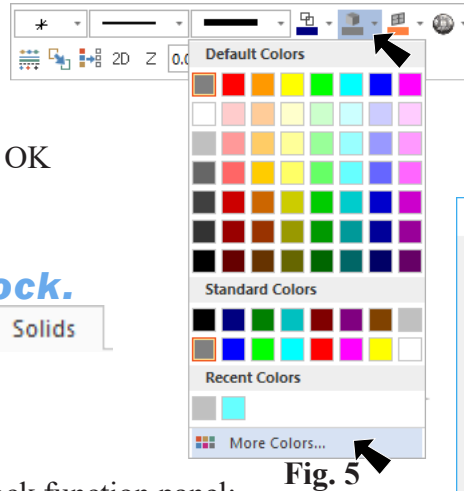
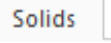



Fig. 5

D. Create Tool Block.

Step 1. On the Solids tab  click **Block** .

Step 2. In the Primitive Block function panel:
 under Type, **Fig. 7**
Solid
 under Origin
 select **bottom left**
 under Dimensions
Length 1
Width 2
Height .6 and press ENTER

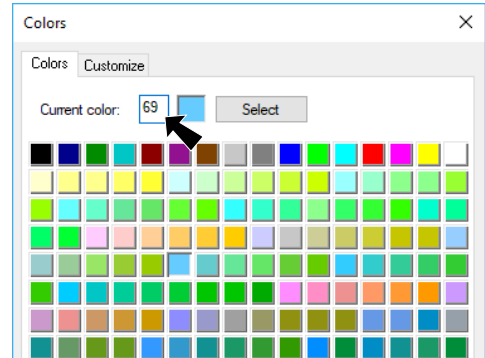


Fig. 6

Press **spacebar** to activate Auto Cursor **Fast Point** , key-in coordinate **1, 0, 1.6**  into Fast Point and press **ENTER**.

Click **OK** .

Step 3. Save  (Ctrl-S).

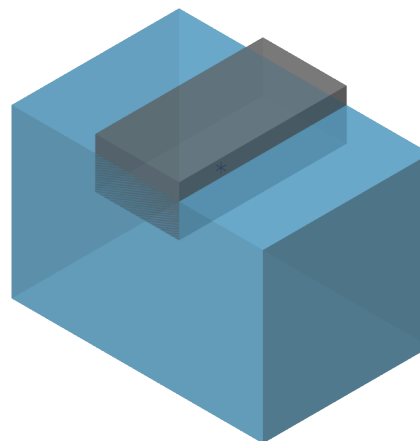


Fig. 8

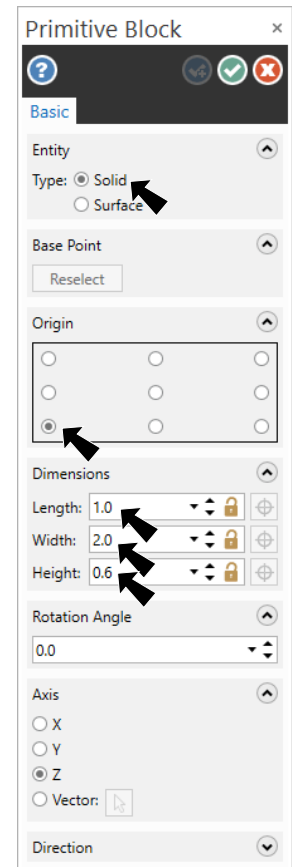
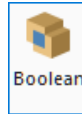


Fig. 7

E. Boolean Remove.

Step 1. On the Solids tab **Solids** click **Boolean**



Step 2. In the Boolean function panel:

Click the **big block** for **Target**, **Fig. 10**
under **Type**, **Fig. 9**
select **Remove**

Click **Add selection** **Fig. 9**
Click **small block** for **Tool**
Click **OK** in Solid
Selection dialog box.

Click **OK** .

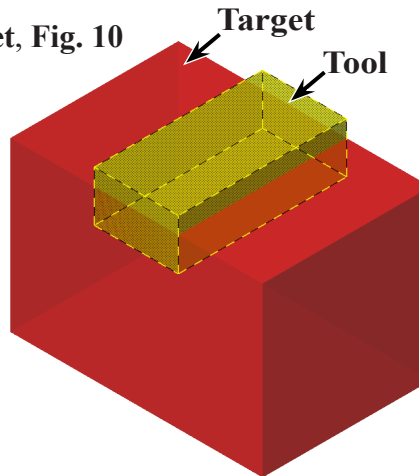


Fig. 10

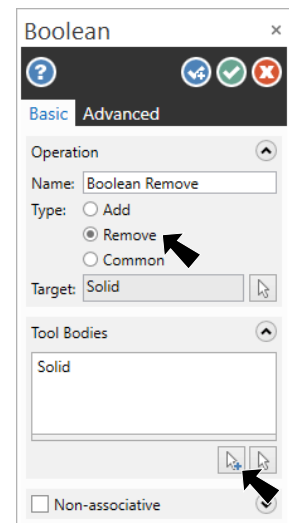


Fig. 9

Step 3. Save (Ctrl-S).

F. Set Grid and Snap .5.

Step 1. On the View tab **View** click

Show Grid and **Snap to**
Grid .

Step 2. Click the **Dialog Box Launcher**
 (Alt-G), **Fig. 13**.

Step 3. In the Grid Settings dialog box set:
under **Spacing**, **Fig. 14**

X and Y Spacing .5

Click **OK** .

Click **No.**

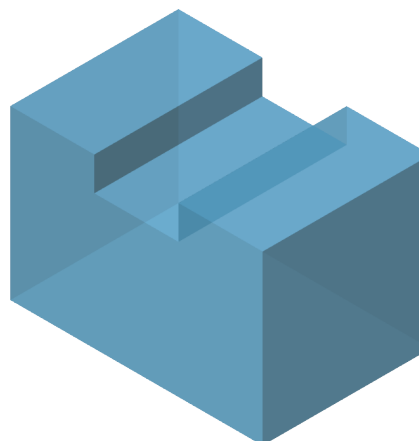


Fig. 12

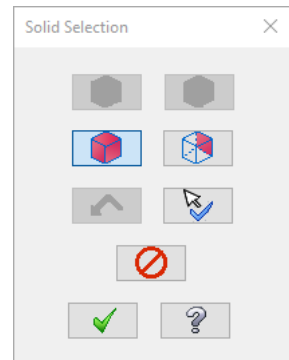


Fig. 11

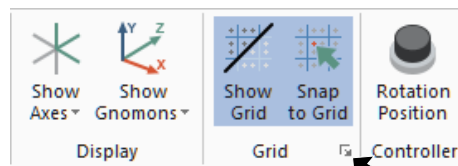


Fig. 13

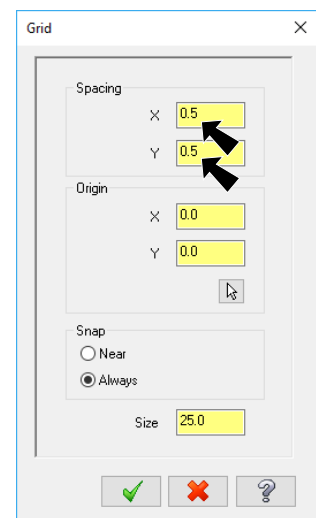


Fig. 14

G. Hole.

Step 1. Change to Front View. **Right click** in the graphics window and click  **Front** (Alt-2).

Step 2. On the Solids tab  click **Hole** .

Step 3. In the Hole function panel:
under Plane Orientation, **Fig. 15**

click **CPlane**  button

Cplane should set to **Front**

under Position

click **Add Auto Cursor Position**  button

click grid points shown in, **Fig. 16** and **press ENTER**.

under Depth

Through all

Type **Simple**

Diameter .4

Click OK .

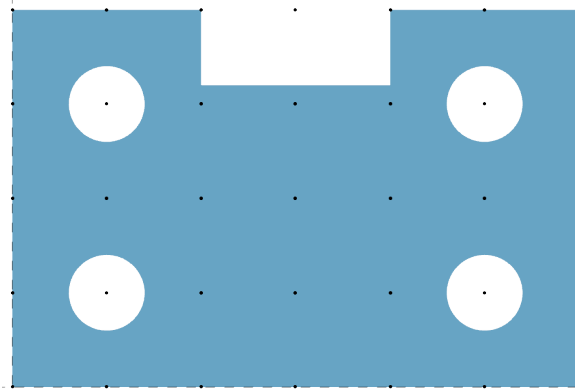


Fig. 16

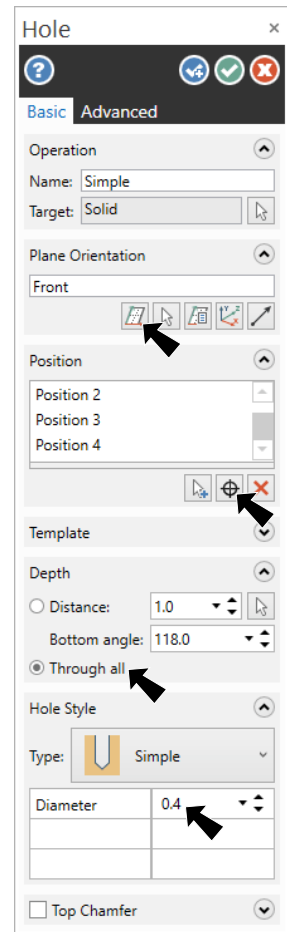
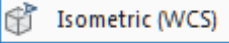

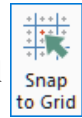


Fig. 15

Step 4. Change to the Iso-
metric View. **Right
click** in the graphics
window and click

(Alt-7).

Step 5. Turn off grid and snap. On the View tab 

unselect **Show Grid**  and **Snap to Grid** .

Step 6. Save  (Ctrl-S).

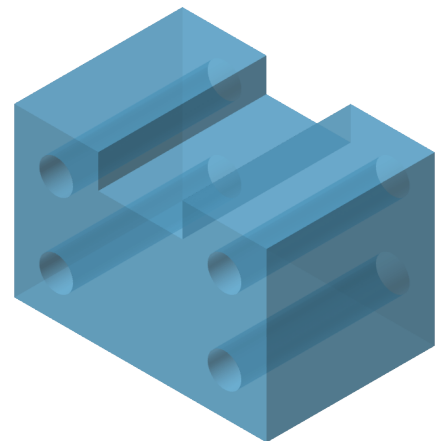


Fig. 17