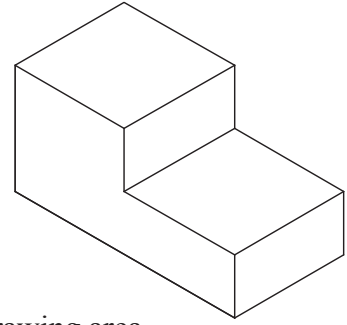


Chapter 9

STEP BLOCK



A. Create A Rectangle.

Step 1. If necessary create a new Mastercam file, click File Menu > New.

Step 2. Change to the **Front View**. Use  or **Alt-2**. Graphic View is changed to **GVIEW = FRONT** at the bottom left corner of the drawing area.

Step 3. Click Create Menu > Create Rectangle.

Step 4. Key-into the ribbon bar:


4 for **Width** 

2 for **Height** 

and press ENTER, **Fig. 1**.



Fig. 1

Step 5. Click the down arrow in the Auto Cursor ribbon bar and click **Origin**  to place the rectangle, **Fig. 2**.

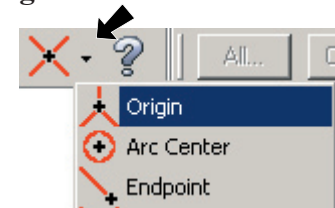


Fig. 2

Step 6. Press ESC to close the ribbon bar.

Step 7. Click **Fit**  or use **Alt-F1** to fit the rectangle on the screen.

B. Draw Lines In Front View.

Step 1. Click Create Menu > Line > Create Line Endpoint. Or click the Line Tool  in the toolbar.

Step 2. Draw the lines in **Fig. 3**. Use the grid to determine the location of the lines.

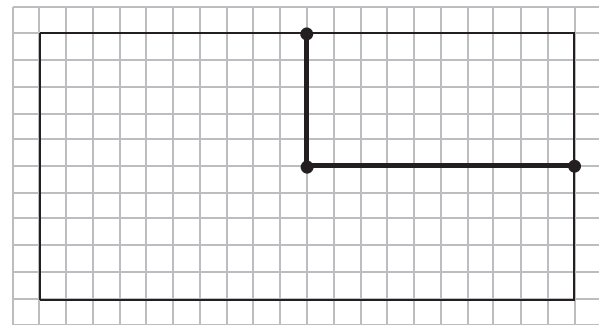


Fig. 3

C. Save Your File.

Step 1. Click File Menu > Save As.

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

D. Trim Lines.

Step 1. Click Edit Menu > Trim/Break > Trim/Break.

Step 2. Click the Trim 1 Entity button  in the ribbon bar.

Step 3. Trim lines to form a step. To trim part of a line, click the line to trim at Position 1, **Fig. 4**.

Fit on Screen ALT-F1	Delete F5	Repaint F3	Zoom In F1	Unzoom Page Down
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Then, click the line to trim to at Position 2. Repeat at other line. That is, click the part of the line you are keeping, Position 1, then trim to Position 2.

Step 4. Press ESC to close the ribbon bar.

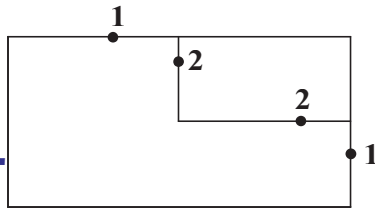


Fig. 4

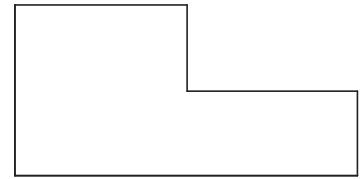



Fig. 5

E. Create 3rd Dimension.

Step 1. Change to the Isometric View.

Use  or **Alt-7**.

Step 2. Click Fit  or use **Alt-F1**.

Step 3. Click the down arrow of the Set Planes button  in the toolbar and click Set Planes to **TOP** relative to your WCS, **Fig. 6**.

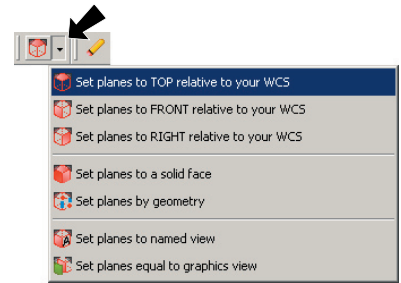
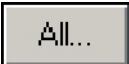


Fig. 6

Step 4. Click Xform Menu > Xform Translate.



Fig. 7

Step 5. Click the All button  in the General Selection ribbon bar, **Fig. 7**.

Step 6. Click All Entities Button in the Select All dialog box, **Fig. 8**.

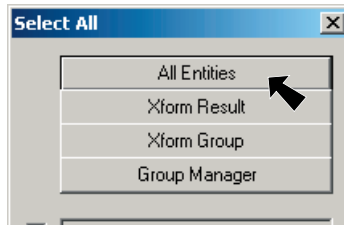



Fig. 8

Step 7. Press ENTER.

Step 8. Set: **Join**  **Y to 2**  and press ENTER, **Fig. 9**.

Step 9. Click OK button  to close the Translate dialog box.

Step 10. **Right click** the drawing area and click Clear Colors  from the menu or use **Alt-R C**.

Step 11. Save your drawing. Use **Alt-F S**.

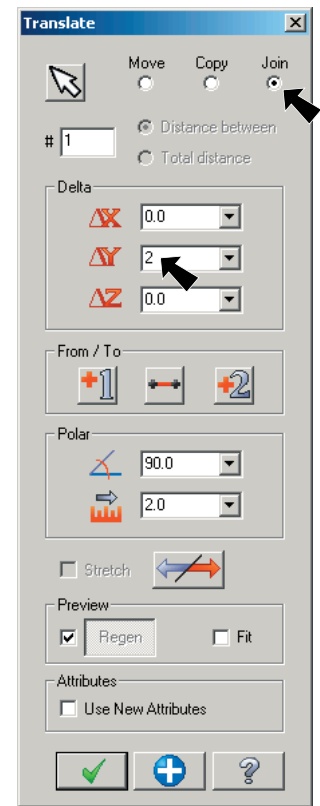
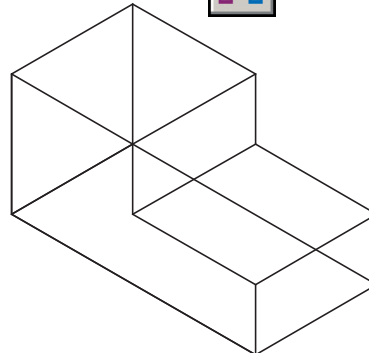



Fig. 9

Fit on Screen ALT-F1	Delete F5	Repaint F3	Zoom In F1	Unzoom Page Down
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F. Check Out Other Views.

Step 1. Take a look at the other views. Change to the **Front View**. Use  or **Alt-2**.

Try Dynamic View. Try Dynamic View, click the Dynamic View button  and click your drawing. Move the cursor to change the view. Click to stop.

G. Delete Hidden Lines.

Step 1. Change to the Isometric View. Use  or **Alt-7**.

Step 2. Delete the hidden lines. Use Delete  or **F5**. Then, click the three hidden lines and press **F5**, **Fig. 10**.

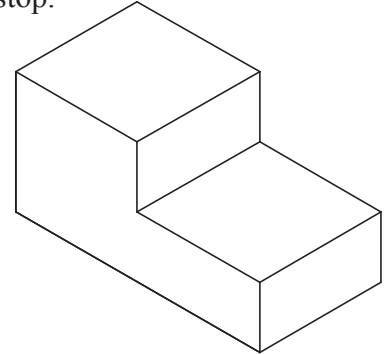


Fig. 10

H. Set Construction Plane To Graphic View.

Step 1. Click the down arrow of the Set Planes button  in the tool bar and click **Set planes to named view**, **Fig 11**.

Step 2. Click **Iso** from the View Selection dialog box and click OK

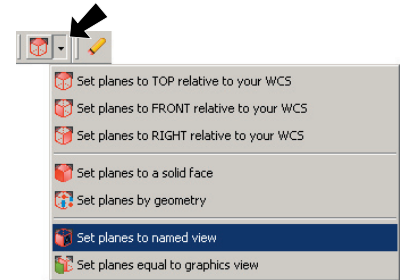


Fig. 11

I. Add Your Name and Period To Drawing.

Step 1. Use **Page Down** to reduce the drawing. Use **Create Menu > Drafting > Create Note** to add your names and period to the drawing.

Step 2. Save your drawing. Use **Alt-F S**.