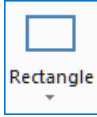



Block for Boat

A. Create Rectangle.

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

Step 2. On the Wireframe tab  click **Rectangle**



Step 3. In the Rectangle function panel:
under Dimensions, **Fig. 1**
Width 3
Height 9
and press ENTER
Press **O** key to select Auto Cursor Origin
override, **Fig 2**
Click OK .

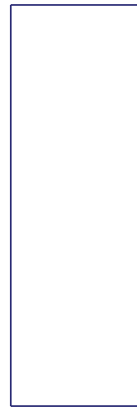
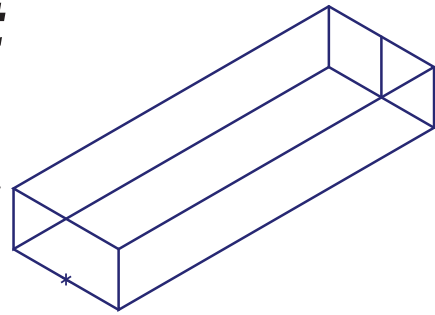


Fig. 2

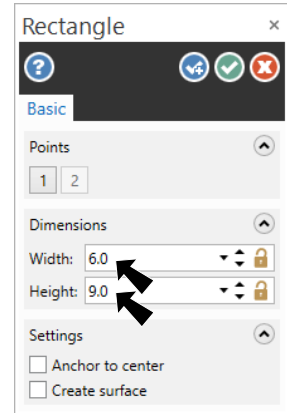

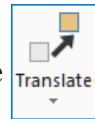



Fig. 1

B. Transform 3D Block.

Step 1. Change to the Isometric View. **Right click** in the graphics window and click  **Isometric (WCS)** (Alt-7).

Step 2. On the Transform tab  click **Translate**



Step 3. **Shift click** a line of rectangle to chain select rectangle and click **End Selection**  (ENTER) **Fig. 3**.

Step 4. In the Translate function panel set:
under Method, **Fig. 4**
select **Join**
under Delta
X 0
Y 2
Z 0 and press ENTER key.

Shift click to chain rectangle

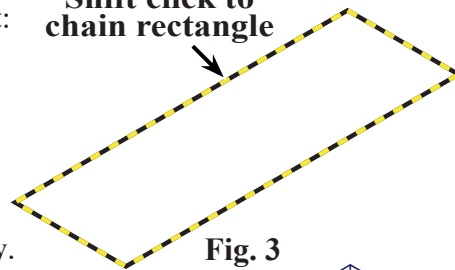



Fig. 3

Click OK .

Step 5. **Right click** the graphics window and click **Fit**  (Alt-F1).

Step 6. **Right click** the graphics window and click **Clear Colors**

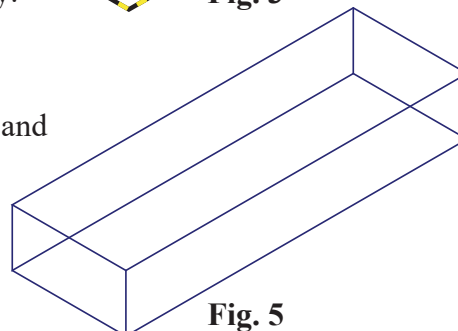


Fig. 5

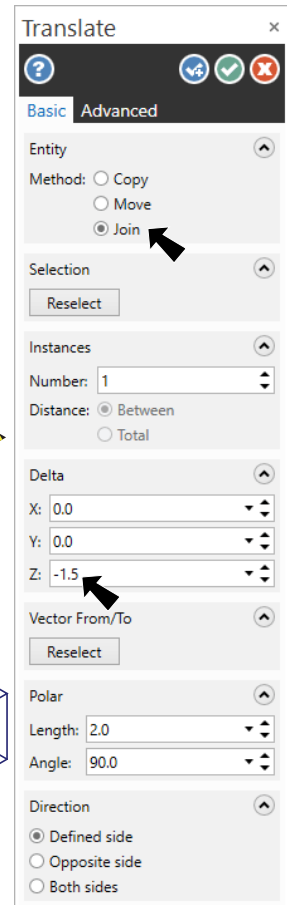


Fig. 4

C. Save As “BOAT BLOCK”



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

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

D. Draw Vertical Rear Centerline.

Step 1. On the Wireframe tab  click **Line**



Step 2. Sketch vertical line at midpoint of rear lines, **Fig. 6**. Auto Cursor will display midpoint icon  when at midpoint. You can also use M key for midpoint AutoCursor override or select Midpoint in the Line function panel. Click OK  when done.

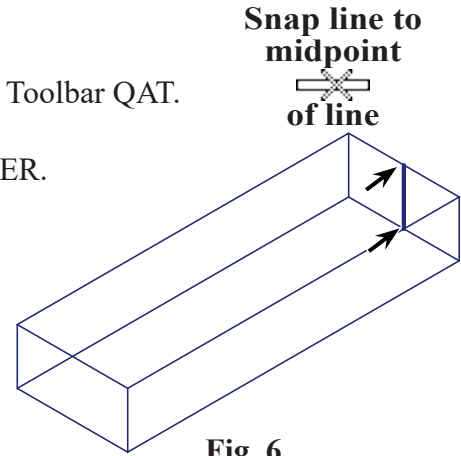


Fig. 6

E. Set Up Levels.

Step 1. Display Levels Manager. Use **Alt-Z**.

Step 2. In the Levels Manager:
Key-in **Block** in the Name field, **Fig. 7**.
Key-in **2** in the Number field and **Geometry** in the Name field, **Fig. 8**.

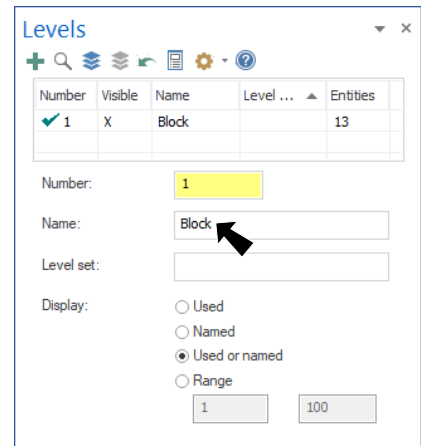


Fig. 7

F. Create Point.

Step 1. Sketch point **red**. **Right click** in the graphics window and on the Mini

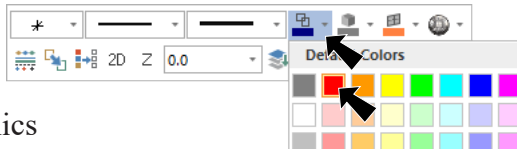
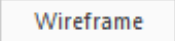
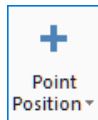




Fig. 9

Toolbar click **Wireframe Color**  drop down arrow and select **red**, **Fig. 9**.

Step 2. On the Wireframe tab  click **Point Position**



Step 3. Sketch Point on **bottom front line** of block. Auto Cursor will detect the midpoint , **Fig. 10**. Click OK  when done.

Step 4. Save  (Ctrl-S).

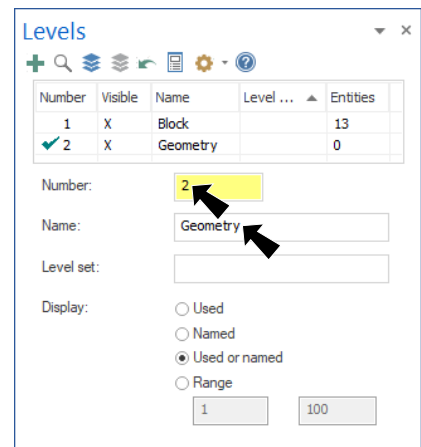


Fig. 8

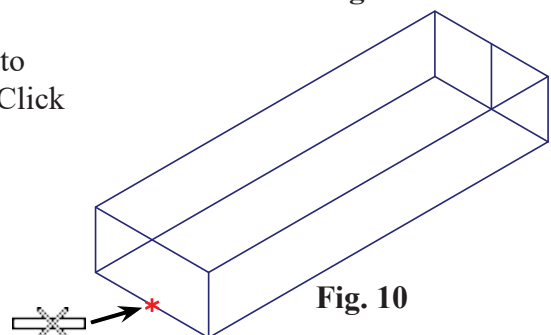


Fig. 10