

A. Create Rectangle.

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

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



- Step 3. In the Rectangle function panel:

under Dimensions, **Fig. 1**

Width 3

Height 1.5 and press ENTER

Press **O** key on keyboard to select

Auto Cursor **Origin** override, **Fig 2**

Click OK

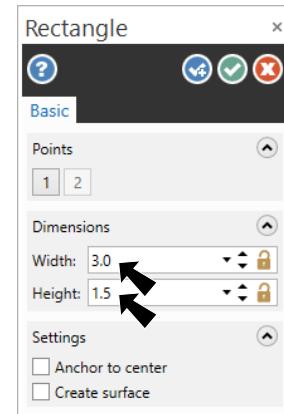
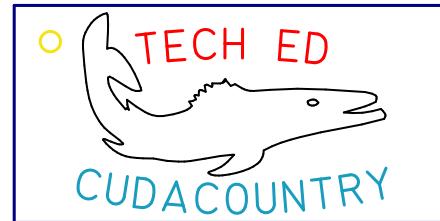


Fig. 1

B. Save As “CUDACOUNTRY AND CUDA”

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

- Step 2. Key-in **CUDACOUNTRY AND CUDA** for the filename and press ENTER.

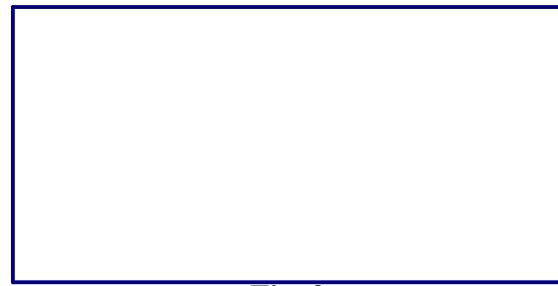


Fig. 2

C. Merge Cuda File.

- Step 1. Download **cuda2020.dxf** from Mastercam cudacountry web page. http://www.cudacountry.net/html/mastercam20_toc.html

- Step 2. Back in Mastercam 2020, click File Menu > Merge.

- Step 3. In the Open dialog box:

Set **Files of type** to

AutoCAD.DXF, **Fig. 3**

Select the **cuda2020.dxf** file and click Open.

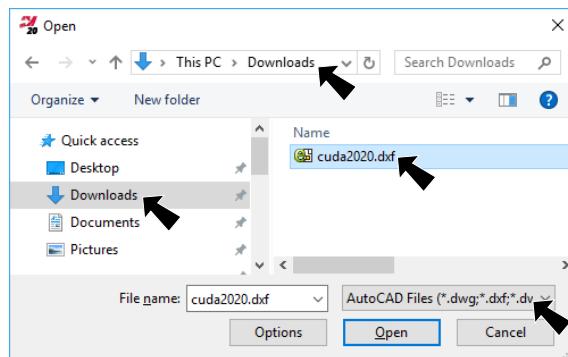


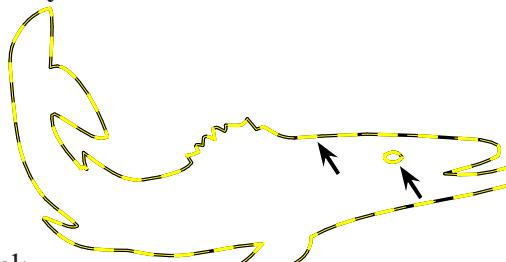
Fig. 3

- Step 4. Right click the graphics window and click **Fit**  (Alt-F1).

The cuda is very large so you can not see the rectangle.

Step 5. In the Merge Pattern function panel:
under Position, Fig. 4
click Scale button

Step 6. Shift-click cuda and cuda eye to select, then click End Selection
(ENTER).



Step 7. In the Scale function panel:
under Method, Fig. 6
select Move
under Reference point
unchecked Auto center

under Uniform
Scale .00023

Click OK and
click Cancel .

Step 8. Right click the graphics window and click
Fit (Alt-F1).

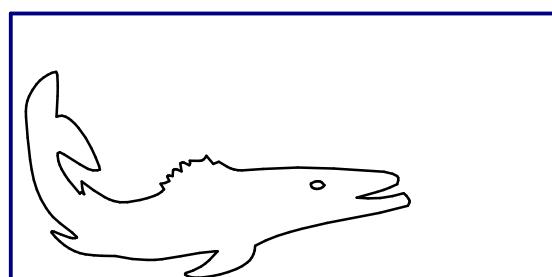
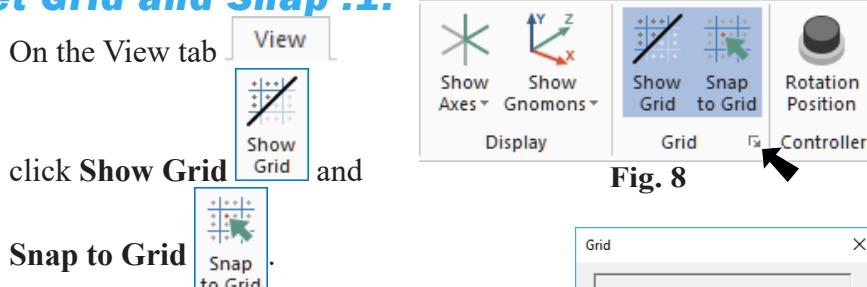


Fig. 7

D. Set Grid and Snap .1.

Step 1. On the View tab



click Show Grid and

Snap to Grid

Step 2. Click the Dialog Box Launcher (Alt-G), Fig. 8.

Step 3. In the Grid Settings:
under Spacing, Fig. 9
X and Y Spacing .1
Click OK
Click No.

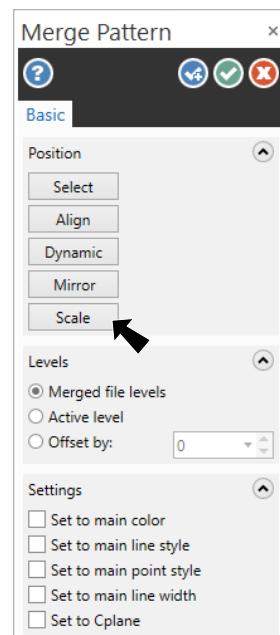


Fig. 4

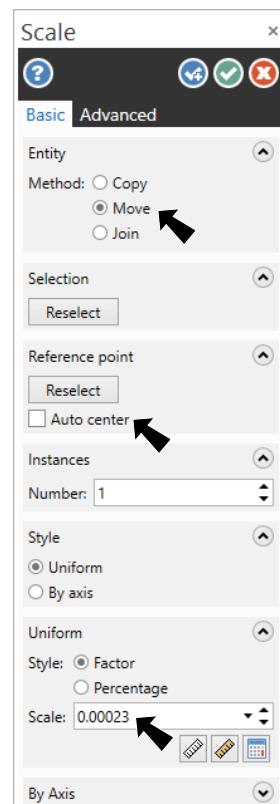


Fig. 6

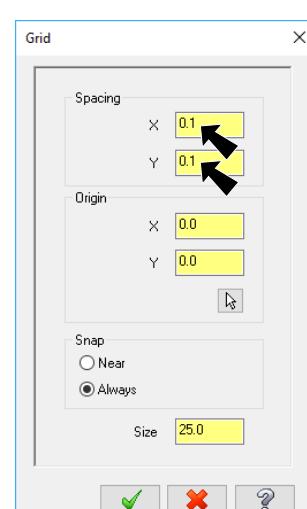
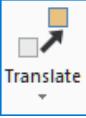


Fig. 9

E. Transform Move Cuda.

Step 1. On the Transform tab  click Translate .

Step 2. Drag a selection around the cuda and click End Selection

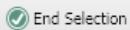
 (ENTER)

Fig. 10.

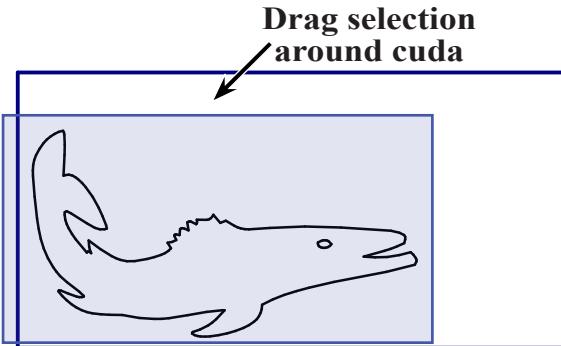


Fig. 10

Step 3. In the Translate function panel:

under Method, Fig. 11

select Move 

under Vector From/To

Click Reselect button

Click center point of cuda Fig. 12

Click X 1.5 Y .9 to translate to.

Use the tracking in Status Bar to determine location, Fig. 13.

And the grid, Fig. 14.

Click OK .

Step 4. Right click the graphics window and click

.

Step 5. Save  (Ctrl-S).

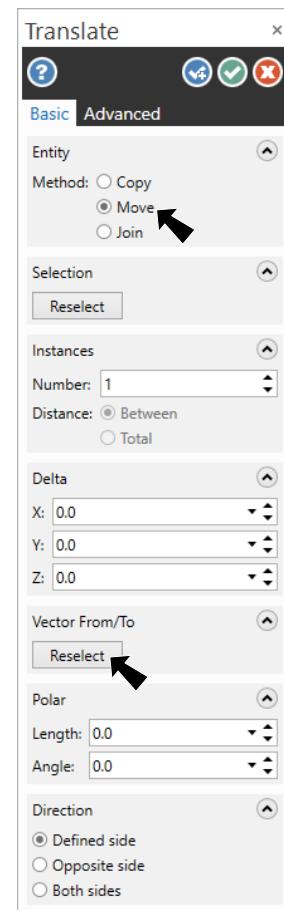


Fig. 11

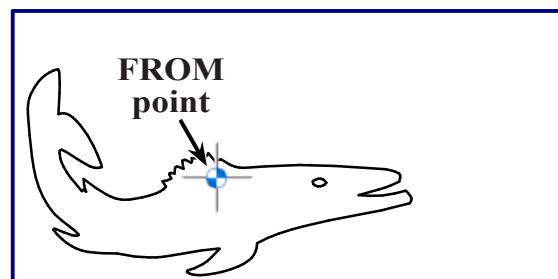


Fig. 12



Fig. 13

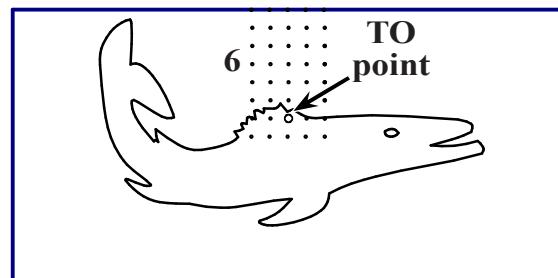


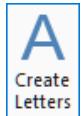
Fig. 14

F. Create TECH ED Text.

- Step 1. Create the TECH ED red. Right click in the graphics window and on the Mini Toolbar click **Wireframe Color**  drop down arrow, then click red, Fig. 15.



Fig. 15

- Step 2. On the Wireframe tab  click **Create Letters** .

- Step 3. In the Create Letters function panel:
under Font, Fig. 16

select **Mastercam (Box)**

under Letters

Lock Caps and key-in **TECH ED**

under Dimensions

Height .2

Spacing .07

under Alignment

select **Arc**

select **Top**

Radius 5

Press **spacebar** to activate Auto Cursor **Fast Point** 

Key-in **1.5, -3.85**  and press **ENTER**

Click **OK** .

- Step 4. Save  (Ctrl-S).

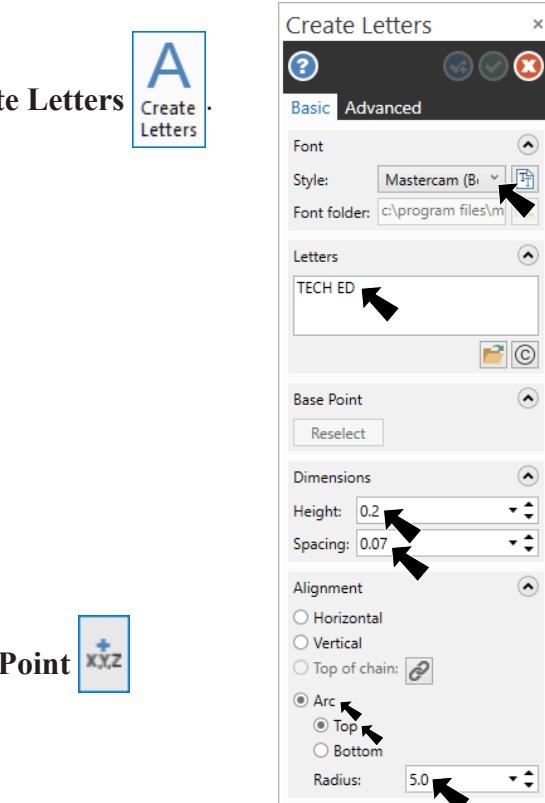


Fig. 16

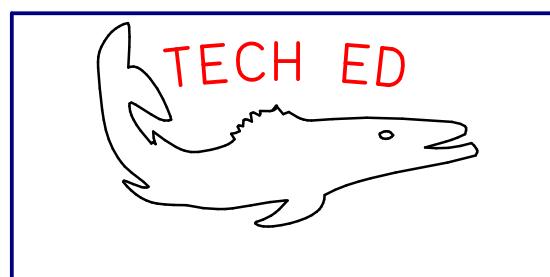


Fig. 17

G. Create CUDACOUNTRY Text.

Step 1. Create the CUDACOUNTRY cyan. Right click in the graphics window and on the Mini Toolbar click Wireframe Color  drop down arrow, then click cyan, Fig. 18.

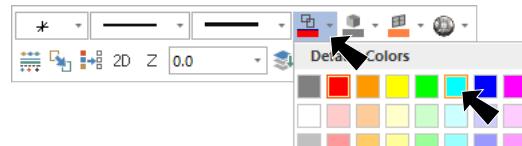


Fig. 18

Step 2. On the Wireframe tab  click Create Letters .

Step 3. In the Create Letters function panel:

under Font, Fig. 19

select Mastercam (Box)

under Letters

Lock Caps and key-in CUDACOUNTRY

under Dimensions

Height .2

Spacing .07

under Alignment

select Arc

select Bottom

Radius 5

Press spacebar to activate Auto Cursor Fast Point 

Key-in 1.5, 5.26  and press ENTER

Click OK .

Step 4. Save  (Ctrl-S).

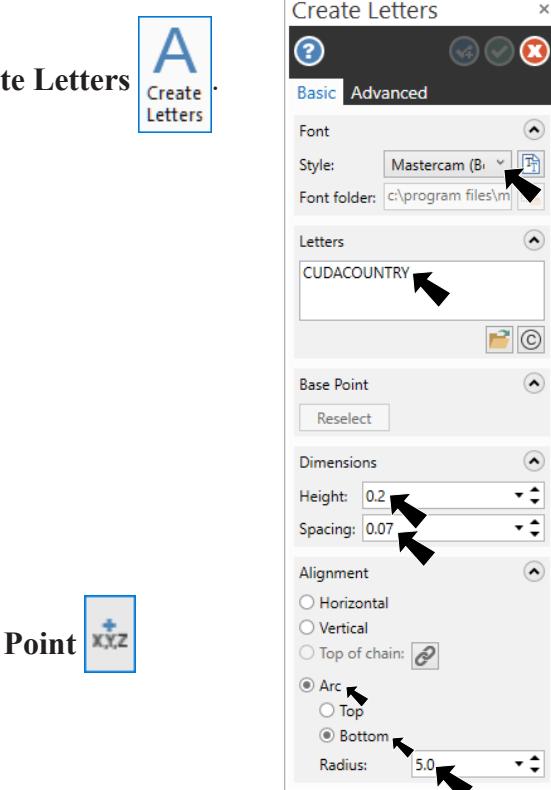


Fig. 19

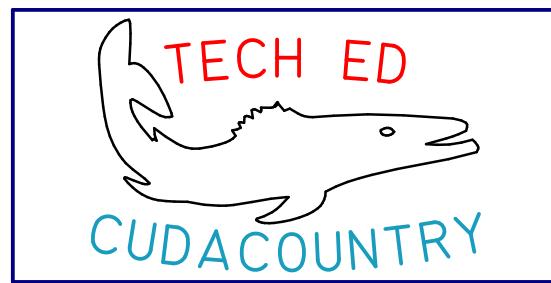


Fig. 20

H. Create Circle For Hole.

Step 1. Sketch circle yellow. Right click in the graphics window and on the Mini Toolbar click Wireframe Color  drop down arrow, then click yellow, Fig. 21.

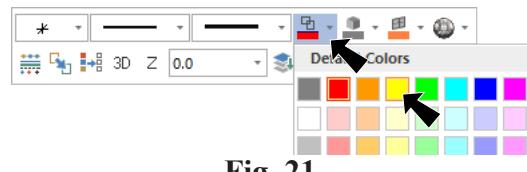
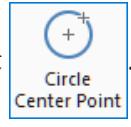


Fig. 21

I. Create Circle For Hole.

Step 1. On the Wireframe tab  click **Circle Center Point** .

Step 2. In the Circle Center Point function panel:
under Size, Fig. 22
Diameter .14 and press ENTER

Press spacebar to activate AutoCursor **Fast Point** 
Key-in **.25, 1.25**  into Fast Point and press ENTER twice.
Click OK .

Step 3. Save  (Ctrl-S).

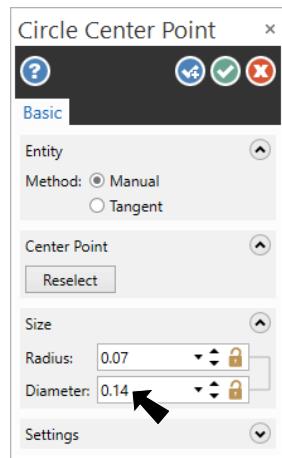


Fig. 22

(.25, 1.25)

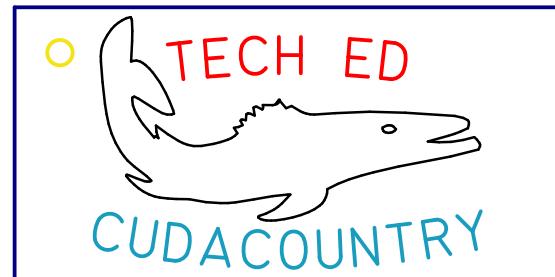


Fig. 23