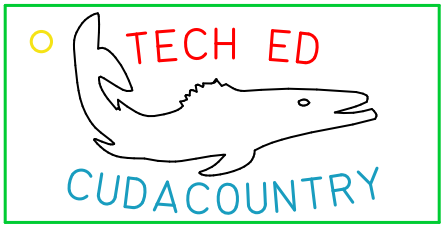
Chapter 17 Cudacountry and Cuda

A. Create Rectangle.



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

Step 2. On the Wireframe tab WIREFRAME 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 AutoCursor **Origin** override, **Fig 2**
Click OK .

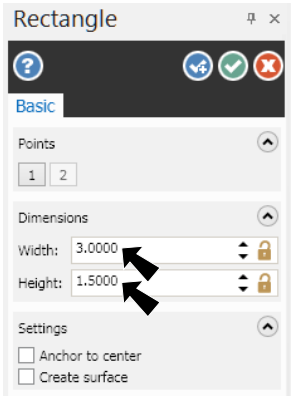


Fig. 1

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 **cuda.dxf** from Mastercam cudacountry web page. http://www.cudacountry.net/html/mastercam17_toc.html

Step 2. Back in Mastercam 2017, click File Menu > Merge.

Step 3. In the Open dialog box:
Set **Files of type** to **AutoCAD.DXF**, **Fig. 3**
Select the **cuda.dxf** file and click Open.

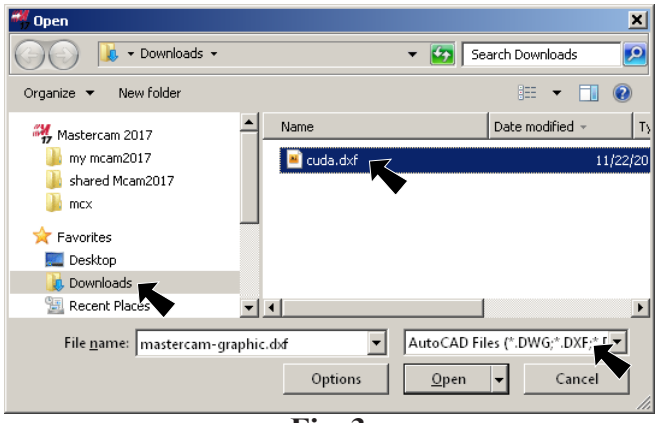


Fig. 3

http://www.cudacountry.net email:cudacountry@hotmail.com

Step 3. In the Merge Pattern function panel:
Scale .00023, **Fig. 4**
Rotation 0
Click OK .

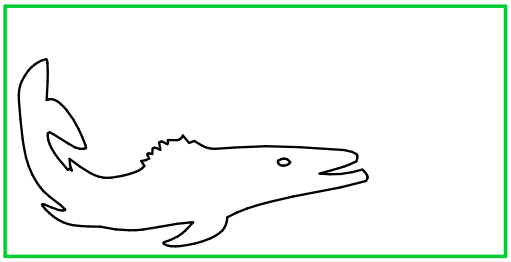


Fig. 5

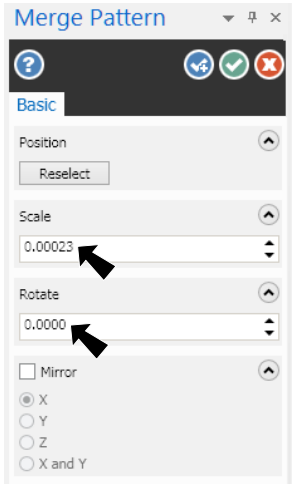


Fig. 4

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

D. Set Grid and Snap .1.

Step 1. On the View tab VIEW click **Show Grid** and **Snap to Grid** .

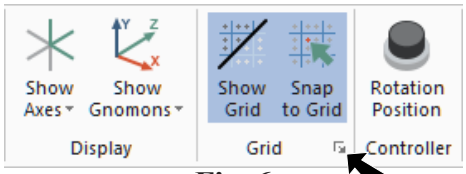


Fig. 6

Step 2. Click the **Dialog Box Launcher** (**Alt-G**), **Fig. 6**.

Step 3. In the Grid Settings dialog box:
under Spacing, **Fig. 7**
X and Y Spacing .1
Click OK .

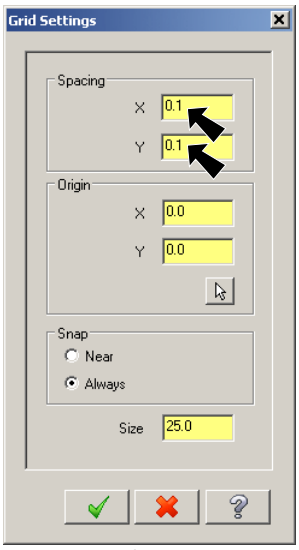
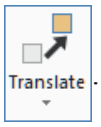
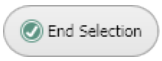


Fig. 7

E. Transform Move Cuda.

Step 1. On the Transform tab TRANSFORM click **Translate** 

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

(ENTER) Fig. 8.

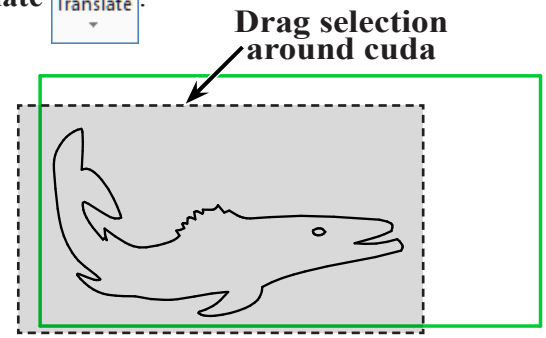


Fig. 8

Step 3. In the Translate dialog box:

Select **Move** , **Fig. 9**

Click **Select FROM point** 

Click **center point of cuda Fig. 10**

Click **X 1.5 Y .9** to translate to.

Use the tracking in Status Bar to determine location, **Fig. 11**.

And the grid, **Fig. 12**.

Click OK  .

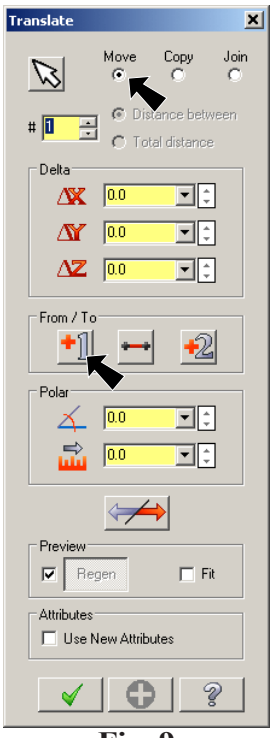


Fig. 9

Step 4. **Right click** the graphics window and click **Clear Colors**  .

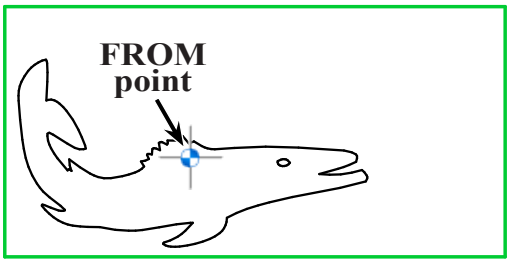


Fig. 10

Fig. 11

Step 5. Save  **(Ctrl-S)**.

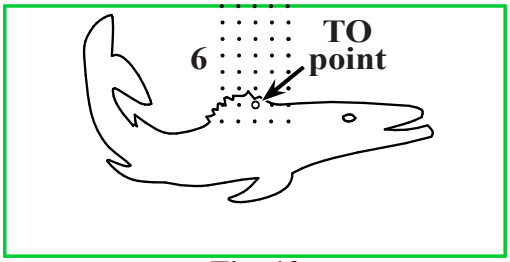


Fig. 12

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. 13**.

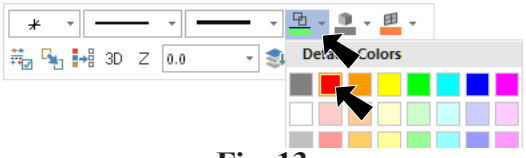


Fig. 13

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

Step 3. In the Create Letters dialog box, **Fig. 14**
Lock Caps and key-in **TECH ED**
Select **Top of Arc**
Height .2
Arc Radius 5
Spacing .07
Click OK.

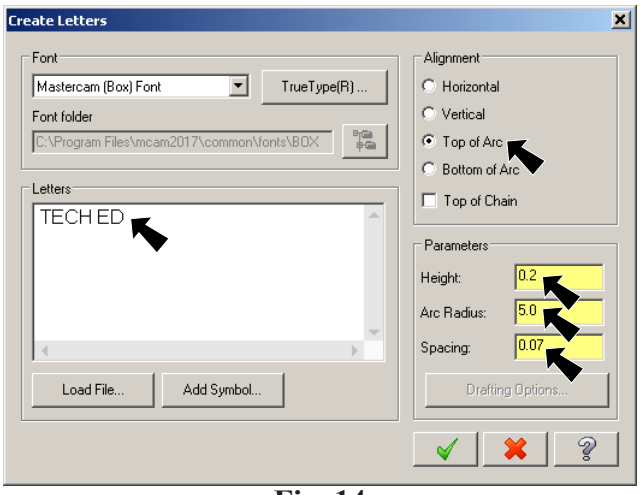


Fig. 14

Step 4. Press **spacebar** to activate AutoCursor
Fast Point
Key-in **1.5**, **-3.85** 1.5,-3.8 and press ENTER

Step 5. Save (**Ctrl-S**).

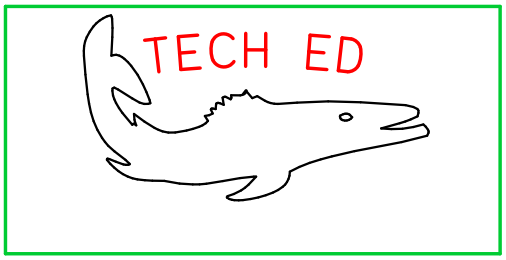


Fig. 15

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. 16**.

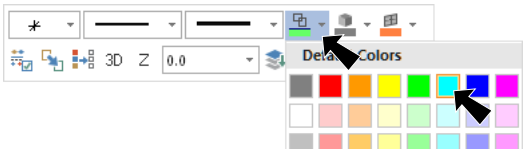


Fig. 16

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

Step 3. In the Create Letters dialog box, **Fig. 19**
Lock Caps and key-in
CUDACOUNTRY
Select **Bottom of Arc**
Height .2
Arc Radius 5
Spacing .07
Click OK.

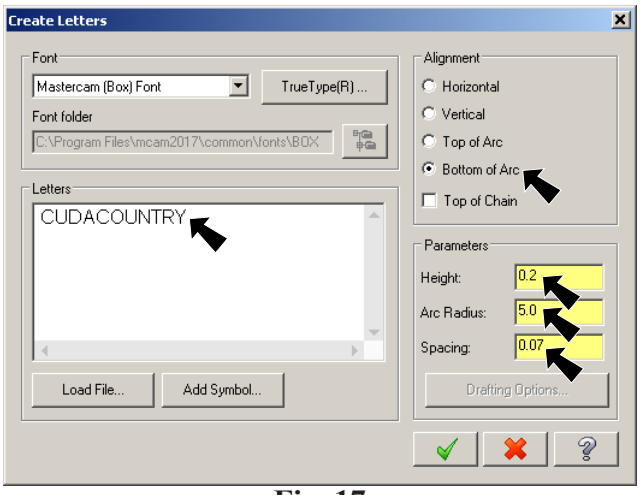


Fig. 17

Step 4. Press **spacebar** to activate AutoCursor
Fast Point
Key-in **1.5**, **5.26** 1.5,5.26 and press ENTER

Step 5. Save (**Ctrl-S**).

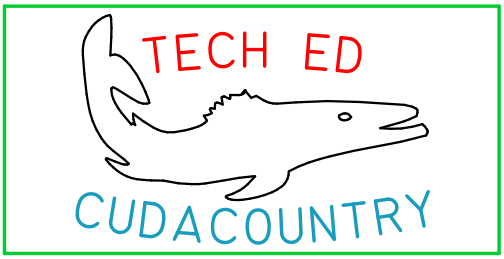


Fig. 16

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. 17**.

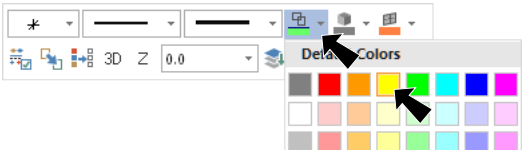


Fig. 17

I. Create Circle For Hole.

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

Step 2. In the Circle Center Point function panel:
under Size, **Fig. 10**
Diameter .14 and press ENTER

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

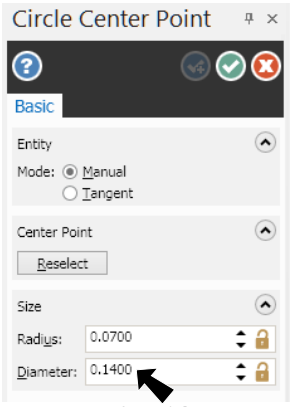


Fig. 18

Step 3. Save (**Ctrl-S**).

Use Chapter 16 for toolpaths.

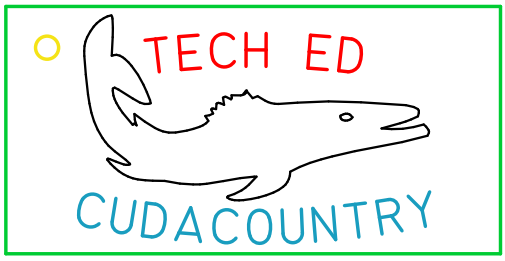


Fig. 19