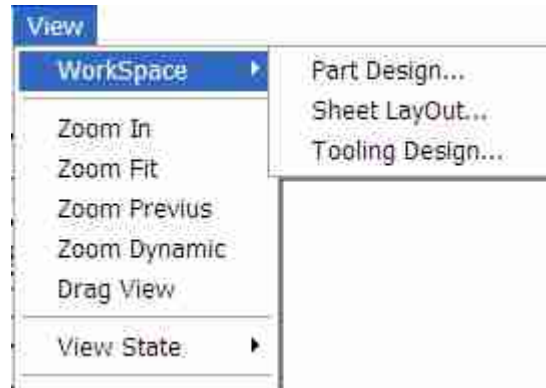
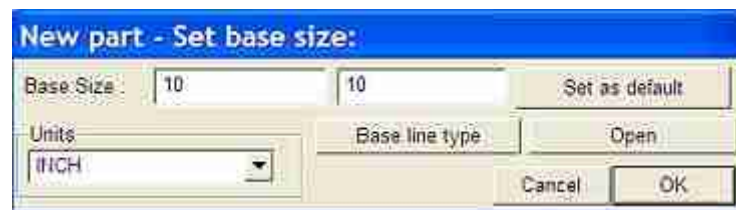


# GPUNCHER WORK SPACE AREAS

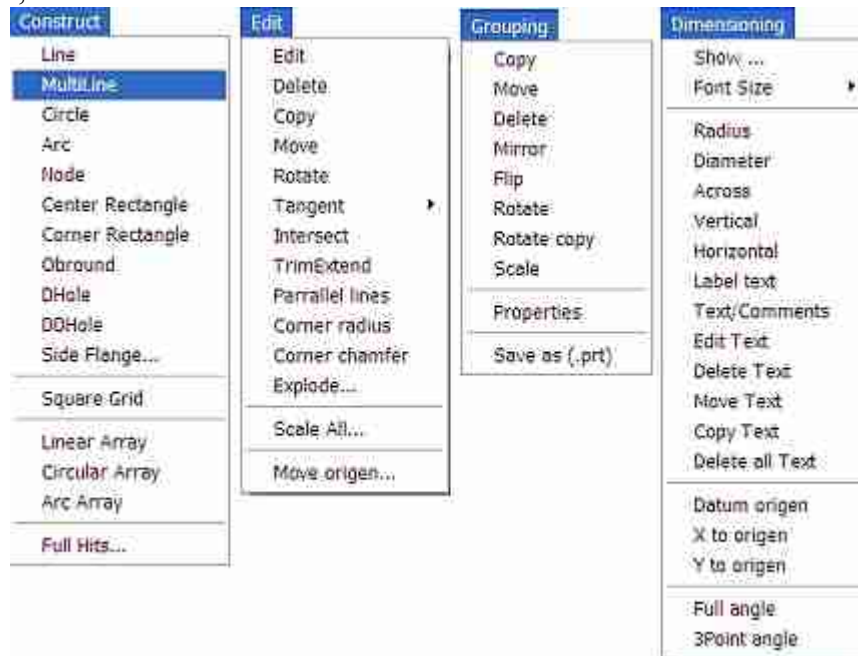


## 1. Part Designing Area

This is the default entrance of the GPuncher. The initial dialog box is to start with your part base size, enter the type of units either inch or metric as shown below.



The part designing area has all the tools to develop the most demanding sheet metal flat pattern, some shown below.



Use the Construct menu to develop your flat pattern and add lines, circles, rectangles and sheet metal shapes as Obrounds, D-holes, DD-holes plus special tools hits when Full Hits command is selected, develop your lay out adding flange by flange when the Side Flange is active.

If you need to change the properties, position or shape of an entity use the Edit pull down menu to move copy, rotate, scale any object in your part.

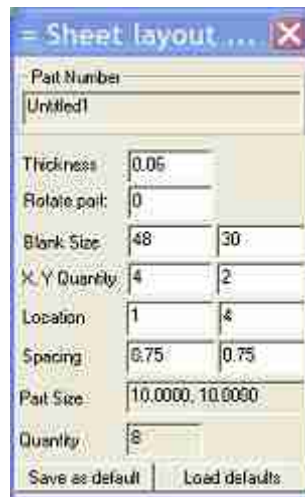
For group of entities use the Grouping pull down menu to change properties or move, rotate, flip all in one move.

If your part need dimensions for better understanding and description add dimension to it with the pull down menu Dimensioning.

## 2. The Sheet Layout Area

Tip: to switch between work spaces press the tab key in your keyboard or pull down menu View-WorkSpace.

The Sheet Layout Area is where you going to grid your part in a sheet a metal and you do so by activating that part thru pull down menu Blank-Part grid/Activate to show the grid box as shown below.



Change the grid box values to get as many part as you need.

## 3. The Tool designing Area

Here you draw all of your special tools. Add objects from the Construct menu just as you would when drawing a part and add your tool information in the properties box as shown below.



To add tools to the turret the tool has to be in your tool inventory as well, you have to do this before you can assign tools to your part pattern. The tool has to be in the turret as shown below.

The screenshot shows the 'NC-TURRET' software window with a menu bar and a tool inventory table. The table lists various tools with their specifications and coordinates.

NO.	NAME	LEN	DIAM	TOOL TIP	TOOL TIP	TOOL TIP	TOOL TIP
130	SDR42 0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
131	SDR42 0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
132	SDR42 0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
133	SDR42 0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
134	RECTANGLE 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
135	RECTANGLE 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
136	RECTANGLE 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
137	RECTANGLE 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
138	CIRCLED 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
139	CIRCLED 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
140	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
141	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
142	CIRCLED 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
143	CIRCLED 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
144	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
145	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
146	CIRCLED 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
147	CIRCLED 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
148	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
149	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
150	CIRCLED 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
151	CIRCLED 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
152	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
153	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
154	CIRCLED 0.125x0.125	0.500	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
155	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
156	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
157	CIRCLED 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
158	CIRCLED 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
159	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
160	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
161	CIRCLED 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
162	CIRCLED 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
163	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
164	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
165	CIRCLED 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
166	CIRCLED 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
167	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
168	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00
169	CIRCLED 0.125x0.125	1.250	0.000	0.00,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
170	CIRCLED 0.125x0.125	1.250	0.000	0.00,100.070,0.0,0.0	72.440	-0.333,72.226,-0.333	0.00,0.00,0.00
171	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,71.811,1.191	0.00,0.00,0.00
172	CIRCLED 0.125x0.125	0.500	0.000	0.0,0.0,0.0,0.0	72.440	-0.333,70.226,-0.333	0.00,0.00,0.00