

## Engraving a Laminated Plastic Label

This chapter describes how to engrave a simple Laminated Plastic Label, using the optional Centre Vice.

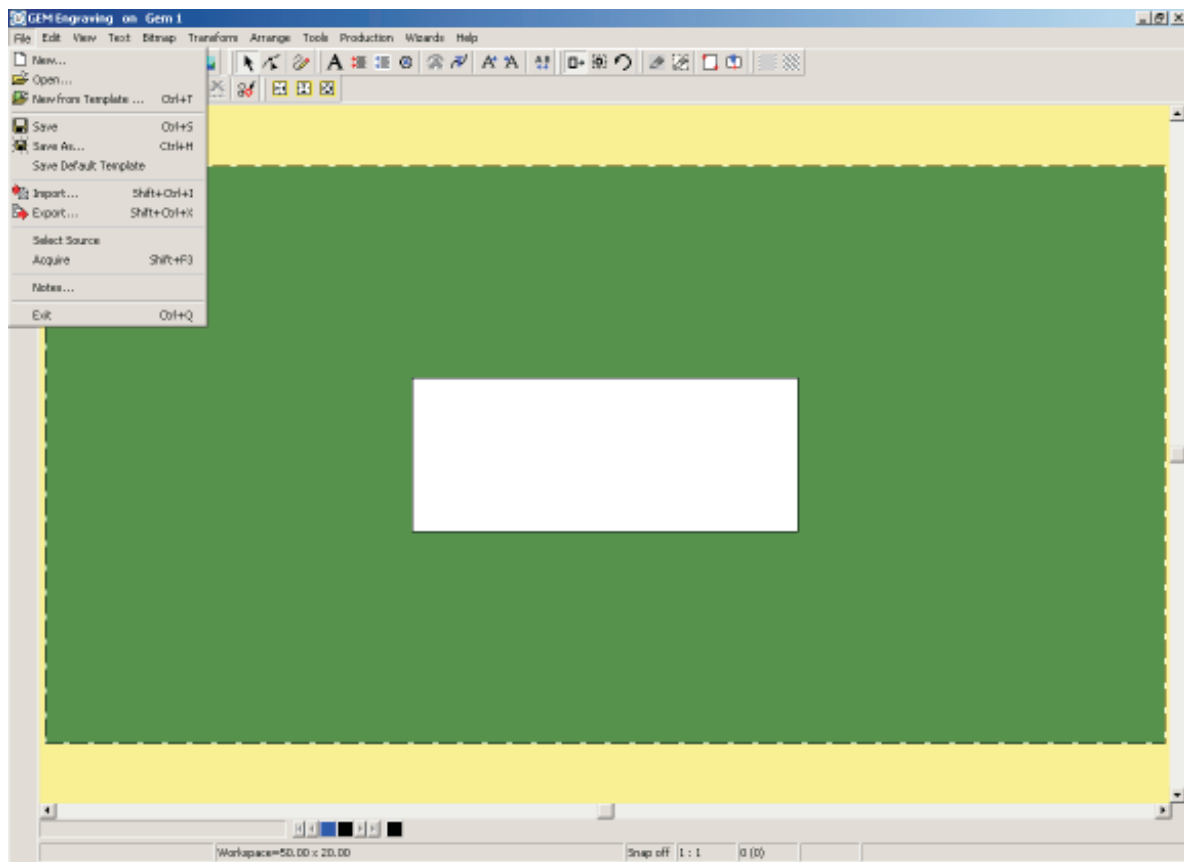


Figure 1

Left Click On "File", then Click On "New", see Figure 1.

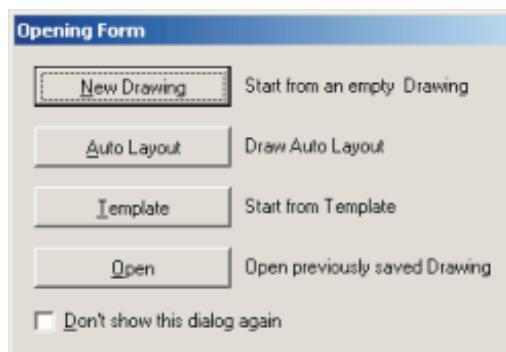


Figure 2

You will see the Opening Form, see Figure 2. Click On "Auto Layout". The Auto Layout Dialogue Box will now be shown, as we are doing a Flat Laminated Plastic Plate held within the Centre Vice, Click On the "Centre Vice" Icon.



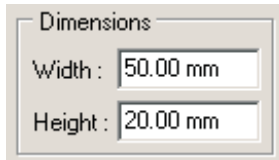
Centre Vice Icon

## Quick Start Guide

### Chapter 7 Engraving a Laminated Plastic Label

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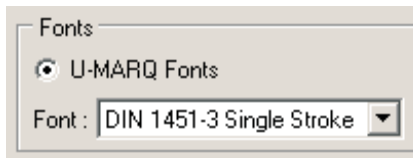
Then enter the dimensions of your plate, in the Dimensions Box., see Figure 3.

A dialog box titled "Dimensions" with two input fields. The "Width" field contains "50.00 mm" and the "Height" field contains "20.00 mm".

Dimensions  
Width : 50.00 mm  
Height : 20.00 mm

Figure 3

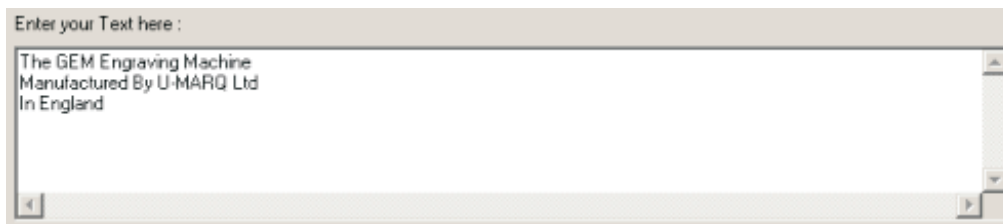
To select the Font you wish to use on your plate, Click On the arrow and then scroll through the Font List. Select your Font by Clicking on its name, see Figure 4.

A dialog box titled "Fonts" with a radio button selected next to "U-MARQ Fonts" and a dropdown menu showing "DIN 1451-3 Single Stroke".

Fonts  
 U-MARQ Fonts  
Font : DIN 1451-3 Single Stroke

Figure 4

Click in the Enter your Text here Box, then type in your text. Pressing "Enter" at the end of each line, see Figure 5.

A dialog box titled "Enter your Text here :" with a text area containing three lines of text: "The GEM Engraving Machine", "Manufactured By U-MARQ Ltd", and "In England".

Enter your Text here :  
The GEM Engraving Machine  
Manufactured By U-MARQ Ltd  
In England

Figure 5

When you are finished Click On "OK".

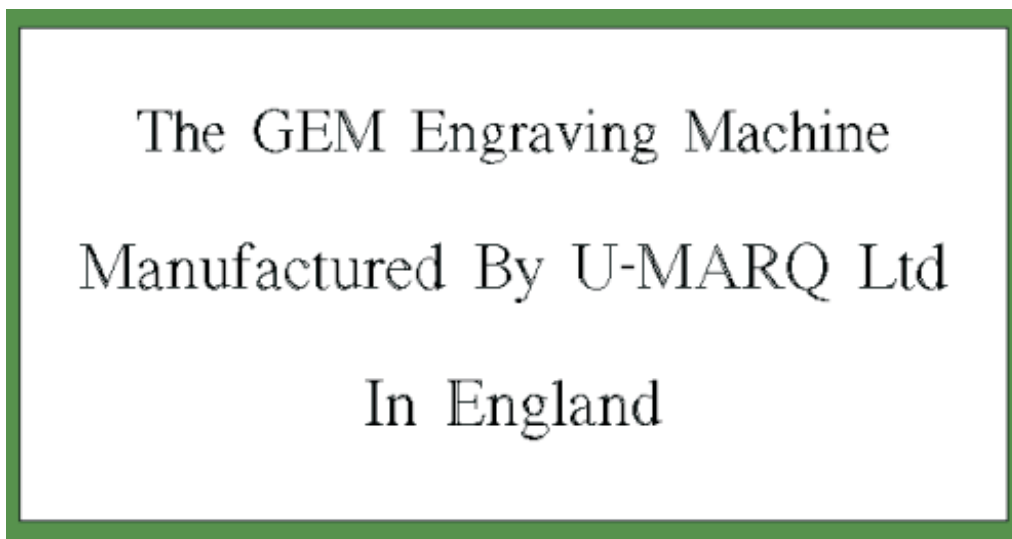


Figure 6

You will now see your Plate on the screen, it's now ready to be engraved, see Figure 6.

From the Main Menu Bar Click On "Production" then "Quick Production", see Figure 7.

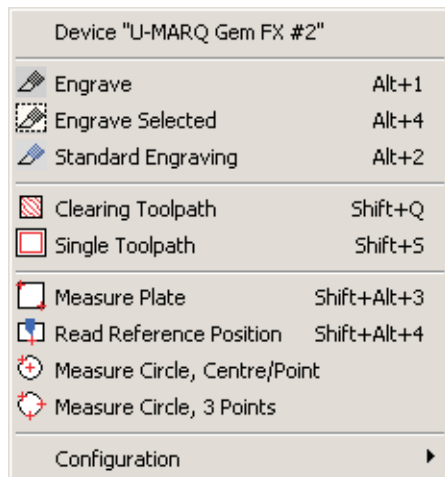


Figure 7

You will see a Dialogue Box called Processes. Change your Process by clicking on the arrow and selecting Engraving Plastic Using Nose Cone. Click On "OK", see Figure 8.

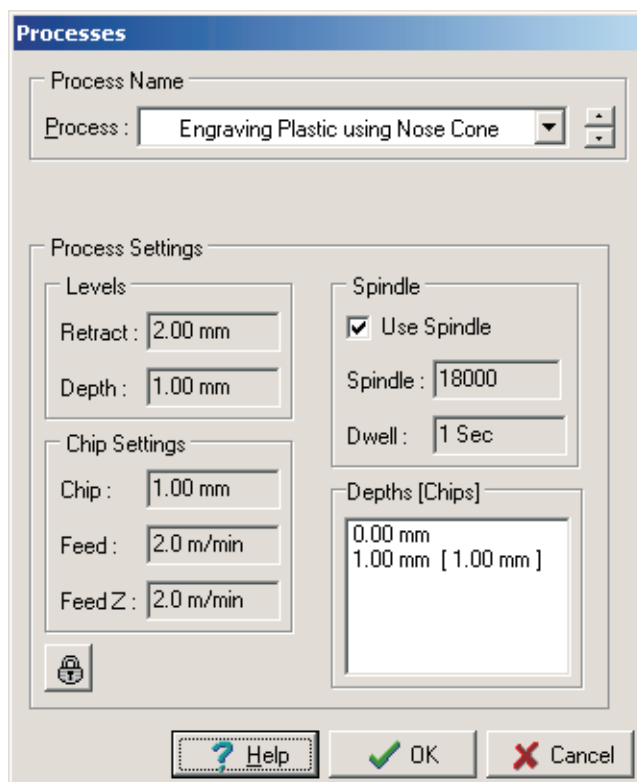


Figure 8

You now are asked if you wish to send your job to the GEM-FX Engraving Machine, Click On "Yes".

You are now informed that the jobs has been processed by the GEM-FX Engraving Machine and is ready to engrave. Click On "OK".

On your GEM-FX Engraving Machine you will notice that the "Start / Stop" Button is now lit. This indicates that the job has been downloaded to the machine.

Put your Standard Jigs onto your GEM-FX Engraving Machine, then place your laminate plate you wish to engrave, in the centre.

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Screw the Brass Cutter Knob anti-clockwise into the top of the spindle shaft. **DO NOT OVER-TIGHTEN - hand tight only**, see Figure 9.

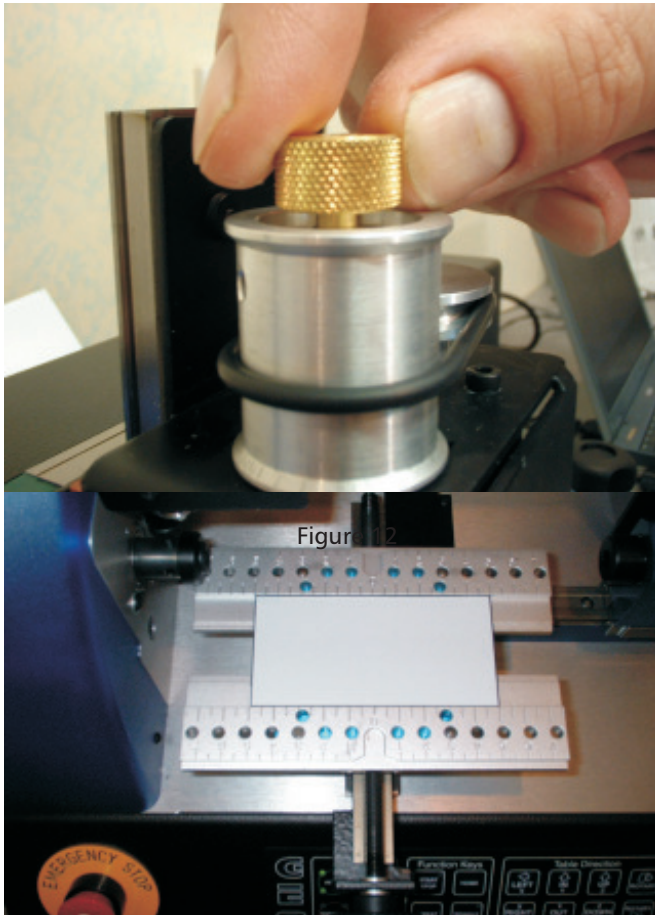


Figure 9

Screw your nose-cone onto the spindle shaft, turning anti-clockwise. Stop when you hear clicks.

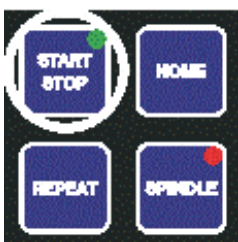


Figure 10



Figure 11

Press the "Start / Stop" Button on the Keypad, see Figure 10. The machine will move to the middle of the job. If necessary move the head of the machine using the Direction Keys visually until the cutter is in the centre of the laminate plate, see Figure 11. When you are satisfied, "Press" the "Start / Stop" Button, see Figure 10.

The machine now moves to the first cut of the engraving. Using the Z Down Key, lower the nose cone until it just touches the surface of the material. Insert the carbide cutter through the hole in the top of the brass cutter knob, until it touches the surface of the laminate plate. Gently tighten up grub screw on the brass cutter knob, with allen key provided.

Turn the nose cone around four or five clicks in an anti-clockwise direction. This gives you the cutting depth, by revealing the cutter tip. With time you will learn how many clicks to go for various material types.

Press the "Start / Stop" Button on the Keypad, see Figure 13. The GEM-FX Engraving Machine will start to engrave your Plate, see Figure 11.

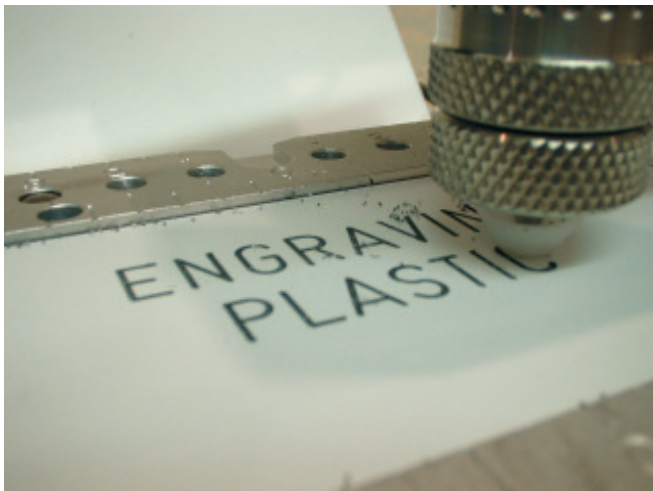


Figure 11

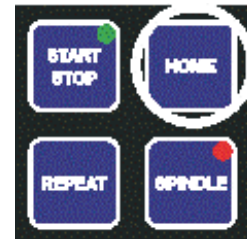


Figure 12

When the engraving has finished Press "Home" on the keypad, see Figure 12. The GEM-FX Engraving Machine will move to its top left position.

### Repeating the Job

To repeat a job on your GEM-FX Engraving Machine, is a simple process. Remove your already engraved item and replace with a new one. Press the "Start / Stop Button", then Press the "Repeat" Button so that the "Start / Stop" is lit by a green light. Press the "Start / Stop" Button, the machine will start to engrave. All parameters will remain exactly the same, as the original job that was sent down.

A useful point to note, is that you can re-engage over the same item using this function, if doing so do not remove the object from the vice. It is possible for you to Repeat the Job after pressing "Home", however you will need to reset the surface. This is done in exactly the same way as before using the "Z" Down Key on the Keyboard.

### Producing Only Selected Item

It is possible to produce only a portions of an engraving, this is accomplished by Select the parts by Left Clicking On I., Then Left Clicking On "Production" on the Main Menu Bar, then Selecting "Produce Selected". Choose your processes as normal and send to the GEM-FX Engraving Machine, as if you where engraving the whole job

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**Note :** If you turn an object blue by, selecting then Left Clicking On the blue square bottom of your screen, it becomes a design object and is not engraved.

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