

Engraving a Laminated Plastic Label

This chapter describes how to engrave a simple Laminated Plastic Label.

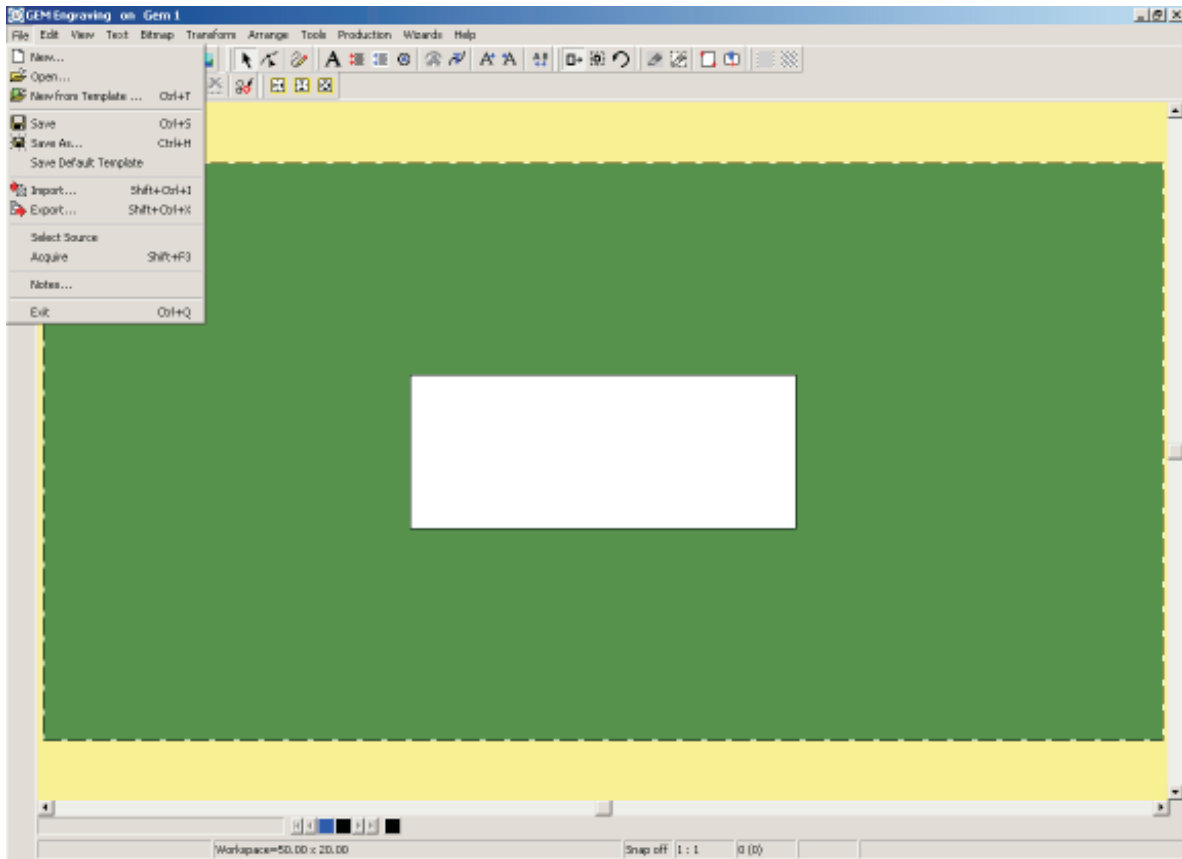


Figure 1

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

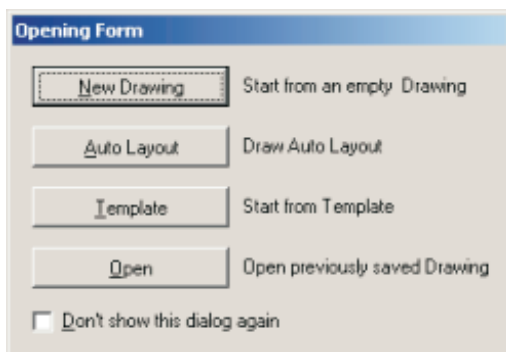


Figure 2

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

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

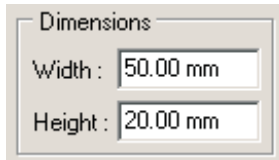
A dialog box titled "Dimensions" with two input fields. The first field is labeled "Width:" and contains the text "50.00 mm". The second field is labeled "Height:" and contains the text "20.00 mm".

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.

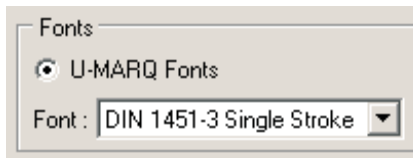
A dialog box titled "Fonts" with a radio button next to "U-MARQ Fonts" and a dropdown menu labeled "Font:" containing the text "DIN 1451-3 Single Stroke".

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.

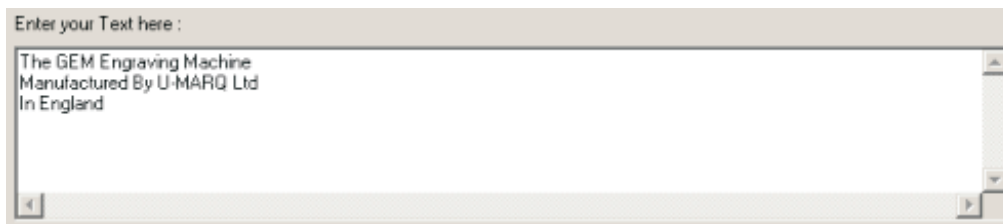
A dialog box with a text area titled "Enter your Text here :". The text area contains three lines of text: "The GEM Engraving Machine", "Manufactured By U-MARQ Ltd", and "In England".

Figure 5

When you are finished Click On "OK".

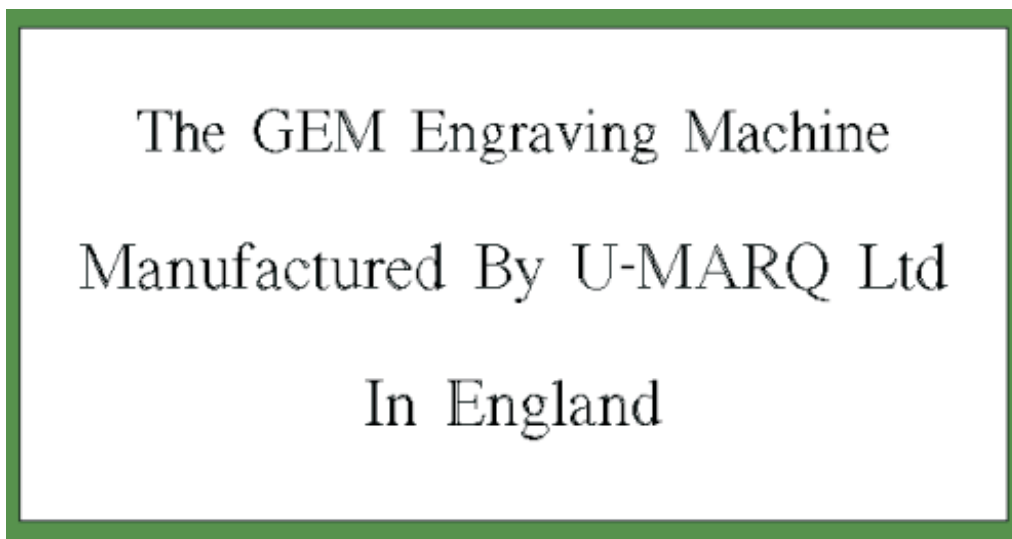


Figure 6

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.

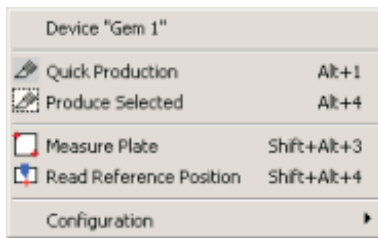


Figure 7

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.

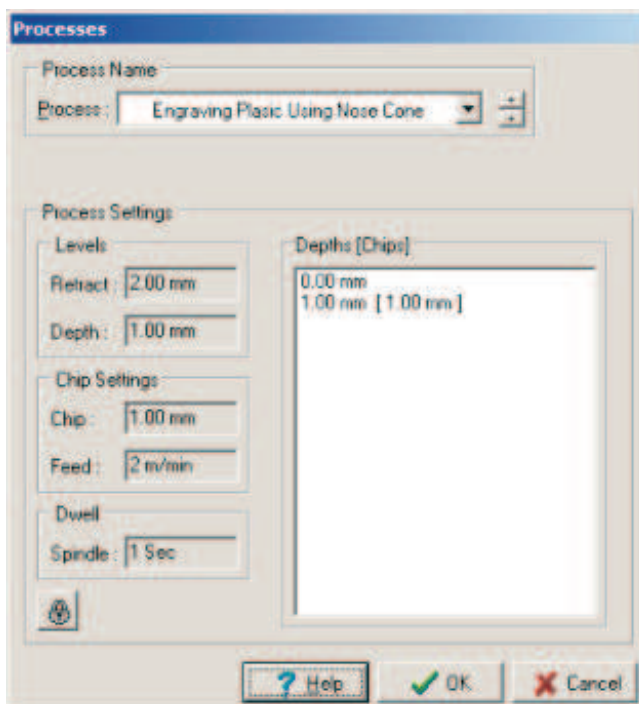


Figure 8

You now are asked if you wish to send your job to the GEM-RX Engraving Machine, Click On "Yes", see Figure 9.

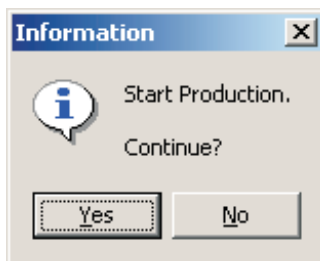


Figure 9

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

Quick Start Guide

Chapter 7 Engraving a Laminated Plastic Label

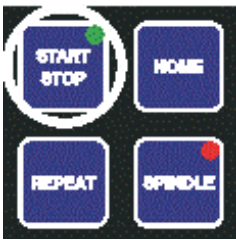


Figure 10

On your GEM-RX Engraving Machine you will notice that the "Start / Stop" Button is now lit. This indicates that the job has been downloaded to the machine, see Figure 10.

Put your Standard Jigs onto your GEM-RX Engraving Machine, then place your laminate plate you wish to engrave, in the centre, see Figure 11.

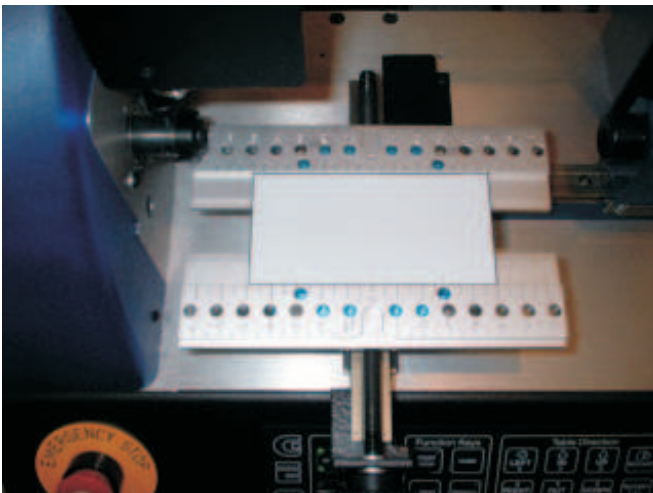


Figure 11

Screw the Brass Cutter Knob anti-clockwise into the top of the spindle shaft. **DO NOT OVER-TIGHTEN - hand tight only**, see Figure 12.



Figure 12

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

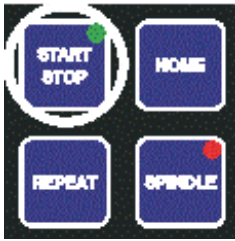


Figure 13

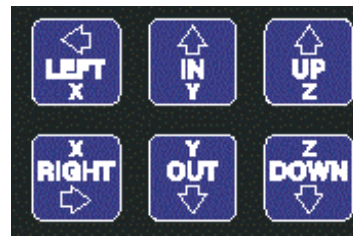


Figure 14

Press the "Start / Stop" Button on the Keypad, see Figure 13. 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 14. When you are satisfied, "Press" the "Start / Stop" Button, see Figure 13.

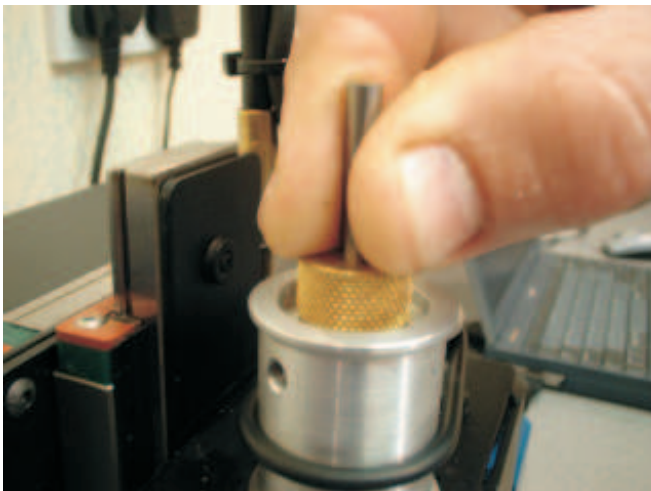


Figure 15



Figure 16

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, see Figure 15. Gently tighten up grub screw on the brass cutter knob, with allen key provided, see Figure 16.



Figure 17

Turn the nose cone around four or five clicks in an anti-clockwise direction, see Figure 17. 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-RX Engraving Machine will start to engrave your Plate, see Figure 18.

Quick Start Guide

Chapter 7 Engraving a Laminated Plastic Label

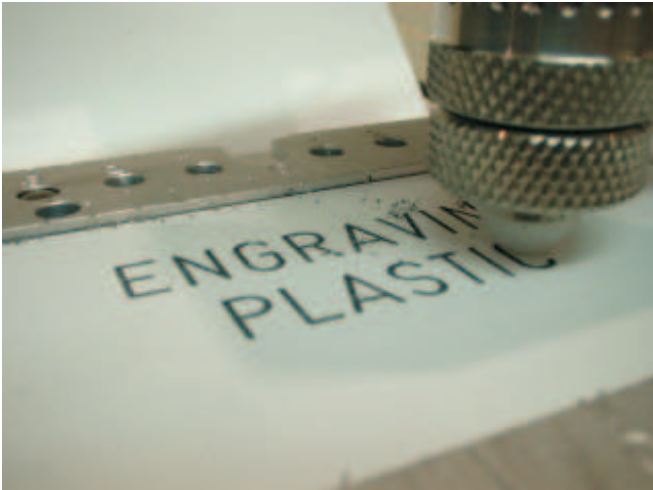


Figure 18

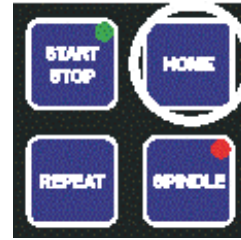


Figure 19

When the engraving has finished Press "Home" on the keypad, see Figure 18. The GEM-RX Engraving Machine will move to its top left position.

Repeating the Job

To repeat a job on your GEM-RX 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-RX Engraving Machine, as if you where engraving the whole job

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.
