



LASER MACHINE MANUFACTURER
MICROSTEP DISTRIBUTOR

How to Make Your Own Focus Gauge

TMX range of CO2 laser machines

To create your own focus gauge if you do not have a focus gauge to work from, please carry out the following steps.

1. Draw a rectangle in the laser software, either to the specific dimensions supplied by CTR, or to the default (standard) dimensions of 13.8mm x 60mm.

2. Place the piece of material in the laser bed.

We recommend using acrylic, but you could use wood, or another sturdy material if you prefer. It is not advised to use a material which has a low melting point, or which is <3mm thick, or which is flexible i.e. foam, as the focus gauge may become distorted and affect the cutting and engraving quality of your machine.

3. OPTION ONE:

Loosen the lens nozzle and, using a ruler, position the bottom of the lens nozzle 13.5mm from the top surface of the material.

Tighten the lens nozzle in place so that it holds this height. Remove the ruler.

Proceed to step four.

OPTION TWO:

Manually measure and cut a piece of card to 13.5mm height. As with step one, use this piece of card to locate the lens nozzle to the correct height from the surface of the top surface of the material you will cut your focus gauge from. Proceed to step four.

4. Download the focus gauge file to the laser machine.

5. Set the speed and power of the laser to settings which are suitable to cut through your chosen material.

6. Cut the focus gauge.

7. You now have a focus gauge that you can use to set the correct focus height for your materials. You can use this focus gauge to make more copies as required.

Information on how to download files and run a job on your laser machine can be found on the relevant tutorial instruction sheet.

This will be found on your original software disk, or can be downloaded from the CTR website.

For further assistance, please contact your supplier.

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