

LST GROUP

GLASS PROCESSING

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WHAT THIS GUIDE IS ABOUT

This guide will provide some information about engraving glass in your Universal Laser System and how to setup your job to achieve a desirable finish to your project.

The contrast in glass engraving is achieved by creating micro-fractures in the surface of the glass though to avoid chips or flaking in the glass we can use the fine control of the Universal Laser System.

If you require further help with the information contained in this guide or have a question about your Universal Laser System, please contact the LST Group support department at support@lstgroup.com.au

ITEMS REQUIRED

- Glass
- HPDFO lens (optional)
- Inlay material

TIME REQUIRED

Time depends on the size of engraving, please use the UCP for a time estimation.

STANDARD ENGRAVING

1- Once you have created your design, modify the colour infill to 70% grayscale. The RGB value for this 75% percent grayscale is R:178 G:178 and B:178. This will force the UCP print driver to half tone image which produce a patterned engraving less likely to chip or fracture the glass.



2- Send the job through to the UCP using the appropriate settings for your particular glass and run the job through your Universal Laser System.

3- The engraved area should have a patterned appearance and should not flake or chip. If this does occur, lower the power setting and increase the speed using increments of 5% to achieve the desired look.

As you can see, the top logo has an inconsistent result while the bottom logo has a consistent pattern which can also be seen in the closeup view.



DEEP ENGRAVING

Using the HPDFO lens, a deep engraving can be achieved in glass.

- 1- Follow the above instructions for setting up your engraving job.
- 2- Send the job through to the UCP using the appropriate settings for your glass and run the job through your Universal Laser System.



3- Ensure you have selected the appropriate lens in the UCP by clicking on the **SYSTEM TAB** then choosing the HPDFO lens as shown.

4- Run your engraving.

5- Once the glass has been engraved, DO NOT move it! Start the job again to perform another pass.

6- Keep repeating the job until a desired depth has been reached.



INLAYING INTO GLASS

- 1- Measure the depth of your inlay material.
- 2- Run the above steps mentioned in the Deep Engraving section to achieve a depth equal to that of your inlay material.
- 3- Use your original file to create a cutting job to be performed on the inlay material.
- 4- Place the inlay into the glass engraving and use adhesive appropriate to the given materials.



CONTACT US

LST GROUP

109 Bonds Rd Punchbowl NSW 2196
Phone: 61 2 9584 9499 Fax: 61 2 9584 9550
LSTGroup.com.au
Sales: sales@lstgroup.com.au
Support: support@lstgroup.com.au

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