



LASER CUTTING SERVICE

GENERAL INFORMATION

The service is only available by booking by email.

To book the service please send an email to laserstampa3D-ACL@polimi.it specifying 'TAGLIO_LASER_person code' as the SUBJECT of the email.

The staff will reply within three working days after receiving the email to arrange an appointment.

MATERIALS

We can cut paper, cardboard, woodboard, wood, plywood, textiles and materials of natural origin, plexiglass (PMMA only).

Maximum thickness we can process is 5 mm.

At POLIPRINT, CANSON Mi-Tenses 160g/m², CANSON COLORLINE 220g/m², CORDENONS 300g/m² or 450g/m² cardboards and 0.5 mm, 1 mm, 1.5 mm, 2 mm woodboard are available. In case of third-party materials, the staff reserve the right to assess the suitability of the material supplied before starting the processing.

MAXIMUM MATERIAL SIZE

The machine worktable can handle panels up to a maximum size of 102x70cm, the maximum cutting area is 61x98cm. Regardless of the size, leave at least 1 cm between the edge of the panel and the pieces to be cut.

HOW TO CREATE THE FILE

Download the template 'POLIPRINT_Layout_MATERIAL.dwg'

The file must be set up with a layer for each machining operation to be performed:

- CUT: all graphics to be cut through on **RED** layer
- ENGRAVING: vector graphics to be superficially engraved on a **YELLOW** layer
- SOLID COLOUR/RASTER ENGRAVING: the areas to be painted on a **CYAN** layer

The unit of measurement in the file is mm and should not be changed.

Layers are pre-set and should not be changed or renamed.

Once the design is finished, it is necessary to explode BLOCKS, HALFTONE SCREENS and TEXTS.

Check for overlapping lines: use the -OVERKILL control to remove them.

The pieces to be cut should be optimised on the worktable, bringing them closer together and organising them to prevent wasting space. The pieces may touch each other, but overlapping lines must be removed.

The file must be saved in .dxf format and must be named 'person code_MATERIAL_thickness' according to one's data and the material to be cut.

PRICE

The cost of the service is € 1.70 per minute + € 4.00 for machine loading.

The quote will be based in a cutting simulation using dedicated software.