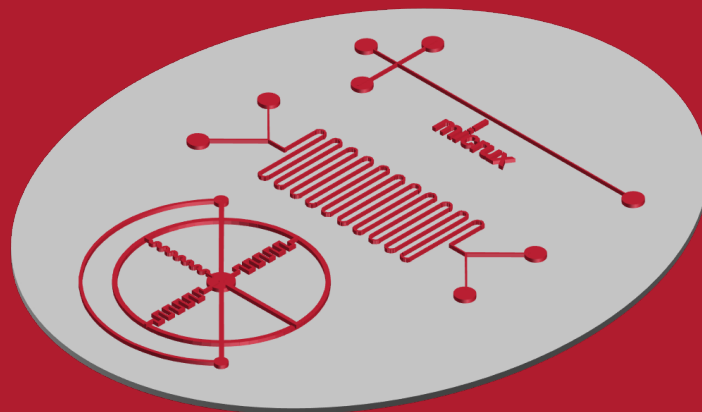
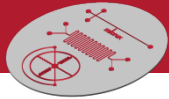




Multi-layer SU-8 Master Mold

-.- 3D Microfluidics -.-



Multilayer SU-8 resin **microstructures** can be manufactured on a **Silicon** wafer in order to get master Molds with high precision and resolution.

» Multi-layer Mold basic features

» Mold dimensions:	4 inch wafers (~100 mm). The effective area for the structures in the mold is 90 mm Ø.
» Substrate material:	Silicon (other substrates such as glass or polymers, may be available on demand)
» Structures material:	SU-8 resin
» Structures layers:	Up to 2 layers
» Typical aspect ratio:	1:1 (Width:Height). Other aspect ratio available on demand.
» Minimal features:	Height: 5 µm Width: 5 µm
» Tolerance:	Height: <10% Width: <2 µm

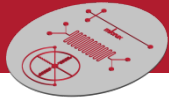
Up to two SU-8 layers (*3D microfluidics*) can be patterned with high aspect ratio on silicon substrates:



Silicon wafer could be cut on smaller rectangular pieces in order to get individual masters. Other technical features can be fulfilled under request.

» Applications

SU-8 master molds provide a cost-effective and useful tool for soft casting polymers (like PDMS) as well as hot-embossing processes.



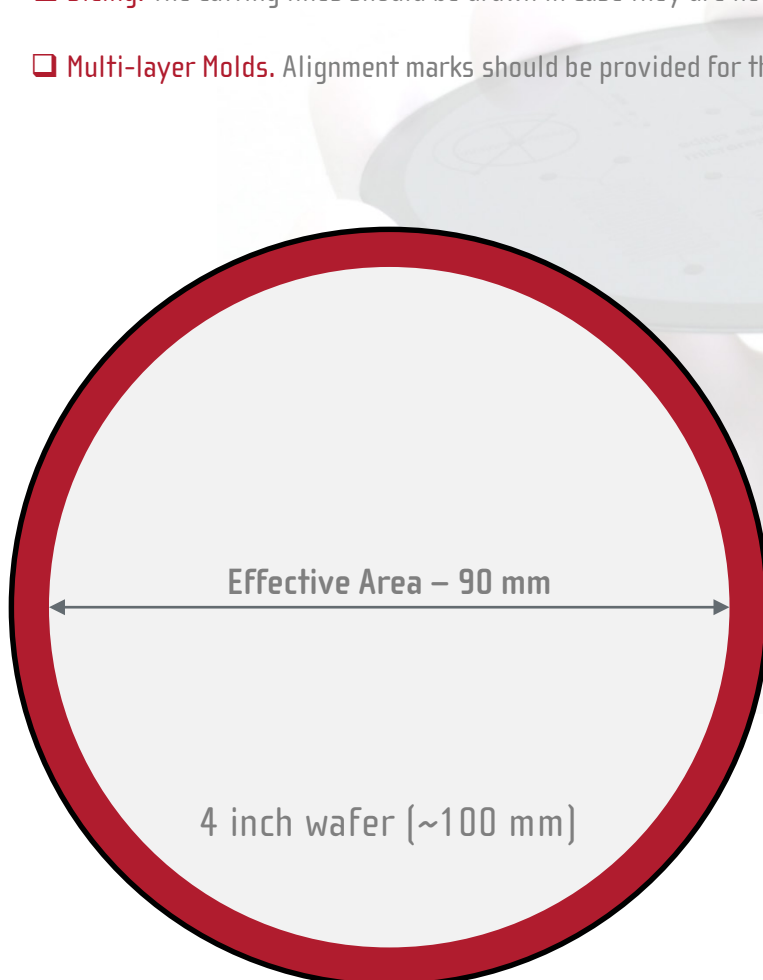
» Basic microstructure layout

Microstructure layout should be provided by customers in an appropriate file format (.CIF) or they can be adapted to a correct format by MicruX.

After the revision of the layout by MicruX, previously to the manufacturing, a pdf file will be provided to customer for the final approval of the design.

The main aspects to be considered in the design of the microstructures:

- ❑ **File format:** *CIF files*. Other formats as DXF may be accepted. All the structures should have closed contours. Any adaptation by MicruX of the provided file will bring an extra charge.
- ❑ **Effective area.** Layout must be fixed on *90 mm* diameter of the wafer.
- ❑ **Dicing.** The cutting lines should be drawn in case they are needed.
- ❑ **Multi-layer Molds.** Alignment marks should be provided for the different layers.



Request a quotation
for your multi-layer
Mold



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