

## ASML Mask Making Guidelines

1. Use professional mask houses: Photronics, Toppan, Compugraphics, etc. Instruct vendor that this will be used on an ASML 5500/300 system. They have all outside templates for the mask. You just provide them the data you want printed at wafer scale (1X).
2. Reduction is 4X in ASML, mask makers will scale data to 4X size, which will determine price.
3. Masks must be Quartz, should be 0.25" thick.
4. Layer-to-layer alignment marks are provided by a calibration mask in our system. No need to put alignment marks on your mask.
5. Field Sizes Available (Wafer Scale):
  - a. For High Resolution 0.63 NA jobs: 21mm in X, 21mm in Y
  - b. For NA 0.57 and below: 22mm in X, 27mm in Y
6. Spacing between fields : 1mm of Chrome between fields (at wafer scale) in order to blank off unwanted areas.