

Put double-sided tape on the stock bottom

Import the design

output to Otherplan



Fix the stock on the spoil board using double-sided tape



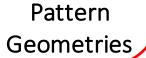
Insert the appropriate endmill to the CNC-mill



Tap the ports for fluid introduction



Screw in barbed connectors for fluid introduction





Mix the polymer and cross-linker with a [1:10] ratio



Vacuum for 15 minutes to remove air bubbles





Pour the mix on a glass slide, wait for an even surface, then Bake it for 1 hour at 100 degrees centigrade

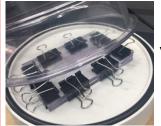


Peel off the PDMS layer, and cut the size of interest using X-acto knife





Sandwich the elastic membrane with the control and flow layers use binder clips to fix the layers



Vacuum the chip for 15 minutes





Connect the tubes to connectors





Connect the tubes to syringe pumps and run the experiment

Assemble and Bond