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Working with ALine

- ◆ We'll discuss your application and requirements and provide guidance on materials and design options, integration of glass slides, silicon sensors or other optical components.
- ◆ If required, we'll sign a Mutual Non-Disclosure to Protect Confidential Information, standard EULA for use of our technology.
- ◆ **Minimum feature size: 50 micron in Z-axis, 250 micron in x-y plane.**
- ◆ **Standard connectors: leur, hose barb, tube stub, or reservoir.**
- ◆ Drop-in designs available for valves and pumps,
- ◆ You provide a schematic or layout in ppt, word, pdf or dxf and we'll provide a quote.
- ◆ Fabrication and assembly with 7 to 10 day turnaround time,

Pricing for Typical Batch Size

Initial run:

Batches of 10 to 30 parts
Cost: per batch \$2500-5000 USD

Includes set-up of fabrication file, second batch does not incur design charges if design modifications are minor.

Higher volume pricing

Batches of 100 – 200
Cost per unit: \$10-200 USD

Batches of 3000- 6000
Cost per unit: \$2-25 USD

Volumes >10,000 units
Cost per unit: \$1-15 USD

CUSTOM DEVICES THAT WORK

Schematic Design to Microfluidic Device in 7 to 10 days

We combine techniques including:

- ◆ Engineered Laminates
- ◆ Machining
- ◆ Silicone Molding
- ◆ 3D Printing
- ◆ Injection Molding

Provide us with a design or a schematic of your desired fluid workflow, indicate the location of on-board valves, vents and pumps, and we'll create a microfluidic device that is reliable, and functional.

Engineering support for actuation routines for fluid control with the ADEPT pneumatic controller is available to speed your work.



INTEGRATE OTHER COMPONENTS

- ◆ Incorporate electrodes, membranes, on-board valves & pumps
- ◆ Integrate optical and electro-active sensors; PCBs, silicon and glass
- ◆ Integrate injection molded components and blister packs
- ◆ Reagent deposition
- ◆ Pop-on fluidic components that interface to a fluidic 'motherboard'

Material	Thickness
PMMA	.002" to .177"; 50 microns to 4.5 mm
ACETAL	.005" to .125"; 125 microns to 3 mm
PET	.0005" to .010"; 12.5 to 250 microns
POLYCARBONATE	.005" and .010"; 125 and 250 microns
POLYSTYRENE	.0002" to .005"; 6 to 125 microns
POLYPROPYLENE	.002" to .040"; 50 to 1 mm
COP	.002" and .007"; 50 and 175 microns
SILICONE	.005" to .060"; 125 micron to 1.5 mm
POLYIMIDE	.001" to .005"; 25 to 125 microns
FLUOROPOLYMERS: FEP, PTFE, PVDF	.001" to .010"; 25 to 250 microns