

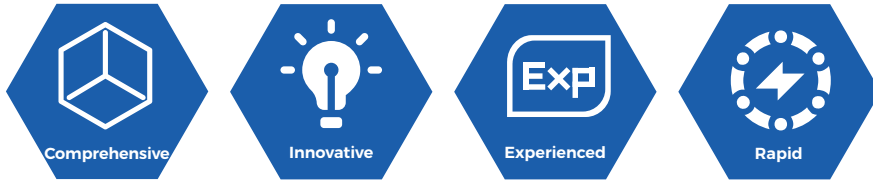


**Designed for science
 Made for accuracy**

About Us

Established in 2014, HiComp Microtech stands as a premier original design manufacturer specializing in advanced microfluidics products and laboratory consumables. Our solutions boost precision, efficiency, and reliability from prototyping to mass production. Quality, performance and affordability are our priorities.

Why Choose Us



What We Do

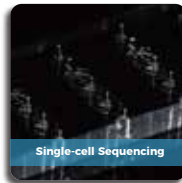
- Product Design
- CNC Micro Milling
- MEMS Manufacturing
- Large Scale PDMS Manufacturing
- Cleanroom Injection Molding
- Surface Functionalization
- Reagent Storage and Lyophilization
- Bonding and Sealing
- Assembly and Automation

Show Case

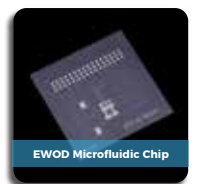
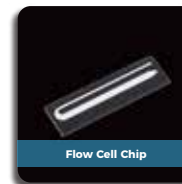
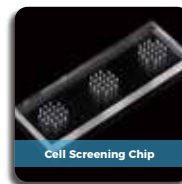
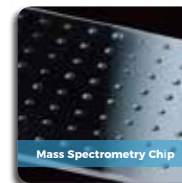
Injection Molding



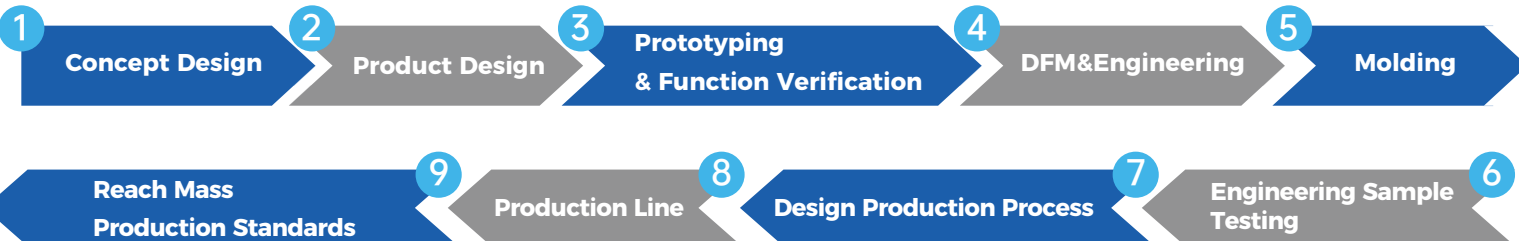
PDMS



MEMS & Glass



Service Workflow





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Microfluidics Capabilities

MEMS Fabrication

Photolithography
Etching
Film deposition
TSV

Bonding and Sealing

Ultrasonic welding
Thermal-compression bonding
Laser welding
Adhesive membrane
Solvent bonding

Reagent Storage

Blister pouches for liquid storage
Reagent lyophilization
Covalent binding of molecules

PDMS Fabrication

Micro-channel PDMS chip
Multi-layer bonding
PDMS membrane
Surface flatness(<math><2\mu\text{m}</math>)
Colored PDMS
Integration of metal electrodes
Large scale PDMS manufacturing

Injection Molding

ISO 7 Cleanroom | Class 10,000
Material : COC, COP, PP, PS, PMMA, PC, ABS, silicone rubber
Two-shot injection molding
Micro pillar array
Micro channel
Hydrophilic treatment
Hydrophobic treatment
Assembly & Automation

Portfolio Cases

Clinical Diagnosis

DNA extraction chip
DNA amplification chip
Droplet generator
CRISPR chip
PCR cartridge
LAMP cartridge
Digital PCR cartridge
Lateral flow immunoassay
ELISA cartridge
Digital ELISA cartridge
Biochemical cartridge
Hematology analyzer cartridge
Liquid biopsy cartridge
Sperm separation chip

Life Sciences

Exosome capture chip
Extracellular vesicles isolation and analysis chip
Cell sorting chip
Tumor cell capture chip
Single cell sequencing and analysis chip
Single cell proteomic analysis chip
Organ-on-chip
Flow cell
Gene sequencing chip
Gene synthesis chip
Drug screening chip
Drug delivery devices
Microarrays

Quick Facts

- 500+ clients in clinical diagnostics & life sciences
- 100+ successful commercialization projects
- 30,000 ft² ISO 7 cleanroom
- 3,000 ft² ISO 6 cleanroom
- ISO 9001 / ISO 13485 certificated
- FDA registered

