



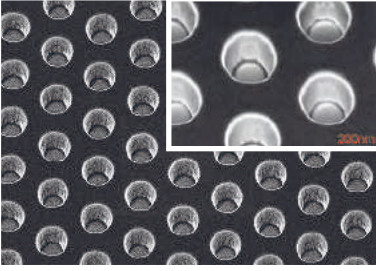
PRECISION ON GLASS

# IMT Glass Microfluidics for Life Science and Diagnostics

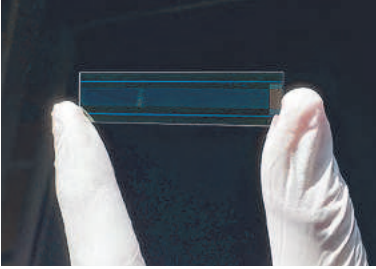
Flexible process offerings that enable microfluidic solutions in glass: design consultancy, prototyping, and scalable manufacturing

More informations?  
Contact us:  
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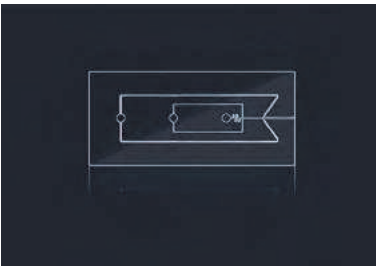




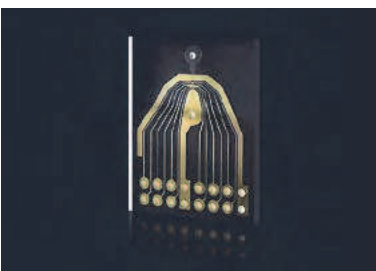
Nanopatterning enabling high-throughput multiplex assays and next generation sequencing



Structured waveguides enabling signal-to-noise reduction



Complex glass structuring enabling multiple-emulsion droplet generation



Electrode integration enabling pathogen detection

## Applications

NGS flow cell, organ-on-a-chip, lab-on-a-chip, single-cell analysis, cell enrichment, sample preparation and many more

## Advantages of microfluidics in glass

- Selection of available glass types
- Bioinert
- Excellent chemical, mechanical, and optical properties
- Outstanding surface properties
- Cost-efficient scaling from prototyping to mass manufacturing

## Processes

- Nano-scale patterning of glass down to 350 nm
  - Pillars, wells, channels
- Electrode integration
  - Materials: Au, Pt, ITO, Ti
  - Features sizes down to 2  $\mu\text{m}$
- Biocompatible bonding
- Structured Bio-functionalisation
- ISO 9001 : 2015

## About IMT

- Foundry for optical, electrical and microfluidic structures and components
- Fast prototyping through in-house mask manufacture
- Staff of 110 employees
- 1600 m<sup>2</sup> clean room

# IMT

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