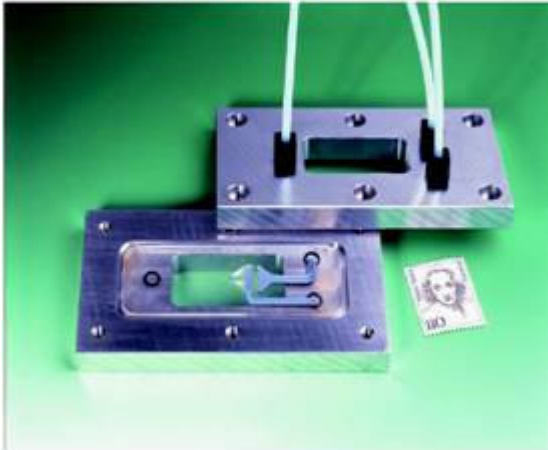


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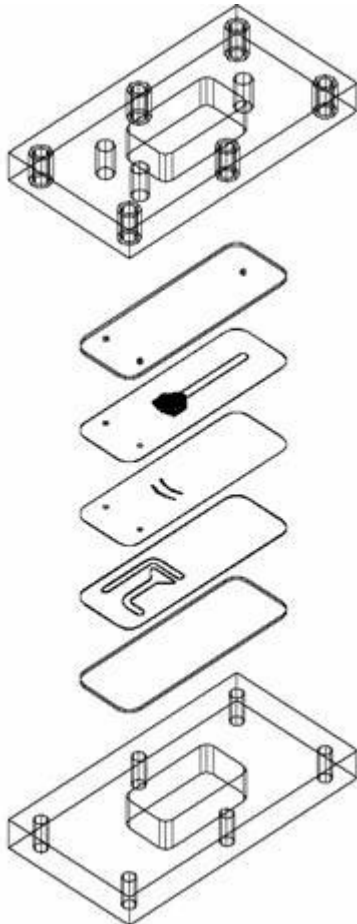
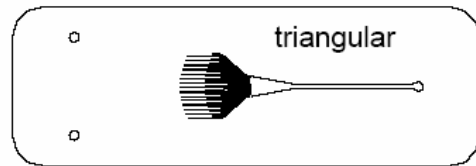
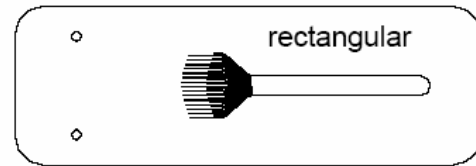


Mikroglas mixer Interdigital

mikroglas chemtech GmbH develops and manufactures microtechnological products made of glass (FOTURAN), as for example microreactor modules, such as static mixers, heat exchangers, or a combination of both. The material glass makes the reactor modules resistant against aggressive liquids. Due to its optical transparency, it is also possible to use the system for photochemical applications.



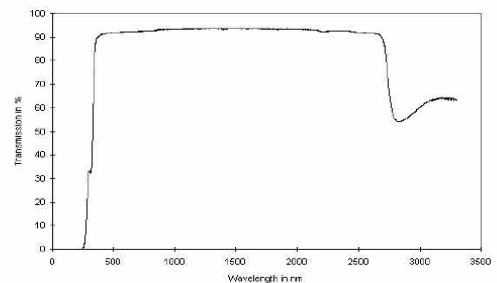
The mixer is available with two different designs of the mixing chamber:



Developed in co-operation with the
 Institut für Mikrotechnik Mainz GmbH

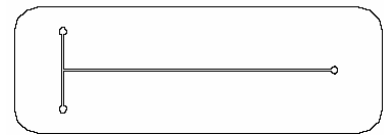
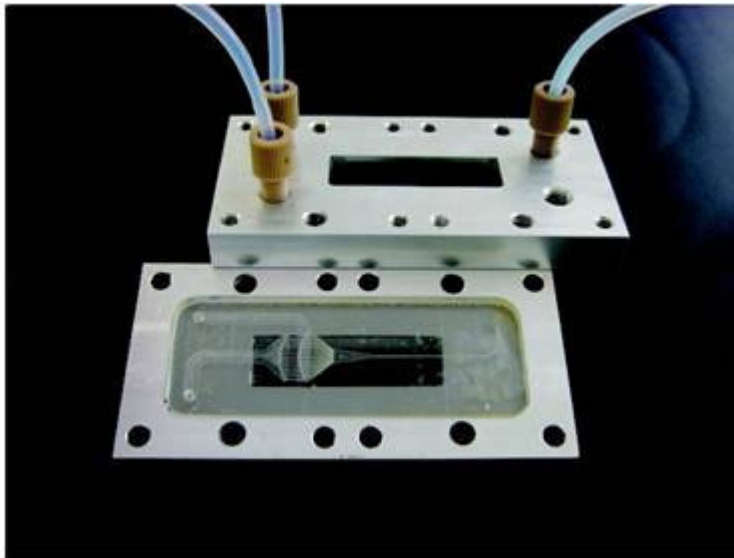
| specifications | |
|-----------------------------|---|
| number of layers | 5 |
| layer thickness | 150 µm - 1 mm |
| outer dimensions | 106 mm x 56 mm x 25 mm |
| number of reaction channels | 30 |
| channel dimensions (inlet) | height: 150 µm width: 50 µm |
| reaction channel | length: 25 mm |
| flow rate | up to 2000 ml/h |
| connection | by ready-made Teflon tubes (UNF thread 1/4") |

Transmission spectra FOTURAN glass (d=1mm)

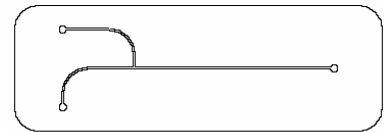


Mikroglas mixer T-mixer design

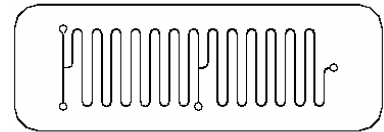
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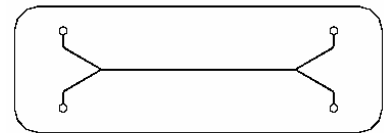
T-mixer design MMH 010



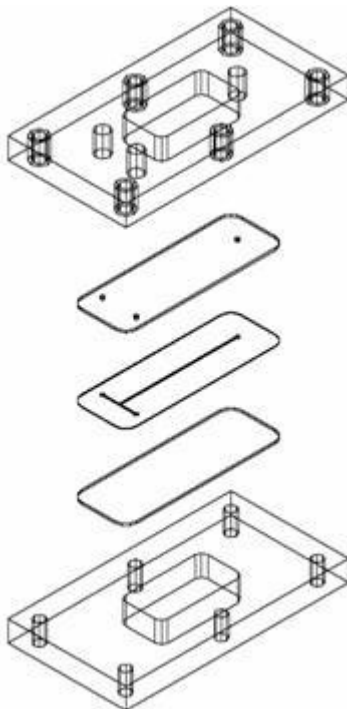
J-mixer design MMH 012



two step T-mixer design MMH 014



2 inlet / 2 outlet Y-mixer design MMH 016



specifications

| | |
|-----------------------------|---|
| number of layers | 3 |
| layer thickness | 0.4 mm - 1 mm |
| outer dimensions | 106 mm x 56 mm x 25 mm |
| number of reaction channels | 1 |
| channel dimensions | height: 0.15 mm - 0.4 mm width: 0.05 mm - 0.4 mm |
| reaction channel | length: 40 mm - 450 mm |
| flow rate | up to 5 l/h |
| maximum viscosity | appr. 22.5 mPas |
| connection | by ready-made Teflon tubes (UNF thread 1/4") |