

## Microstructured endoscopic components: Specifications

- Pattern size > 5 $\mu$ m
- Nozzle thickness = 20 - 500 $\mu$ m
- Material: Nickel-Phos12, stainless
- Aspect ratio = 5 - 6
- **EXCLUSIVE:** adjustable pattern-tapering up to 15°
- Manufacturing according to adapted LiGA-process
- Multilevel pattern available
- Alignment-precision level-to-level  $\leq$  3 $\mu$ m
- Maximal patterned area = 200 x 200mm
- Parallelism Frontside-to-backside  $\leq$  10 $\mu$ m
- Available PVD-coating (e.g. noble metals, wear-resistant coatings)
- Compatible photoresists for UV-Lithography:
  - AZ positive resists, MicroChem SU-8