

## High-definition Watch components: Specifications

- Pattern size > 5 $\mu$ m
- Thickness of watch components = 20 - 500 $\mu$ m
- Material: Nickel-Phos12, stainless, non-magnetic
- Aspect ratio = 5 - 6
- **EXCLUSIVE: adjustable pattern-tapering up to 15°**
- Manufacturing according to adapted LiGA-process
- Multilevel pattern available (e.g. for gearwheel-systems)
- 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