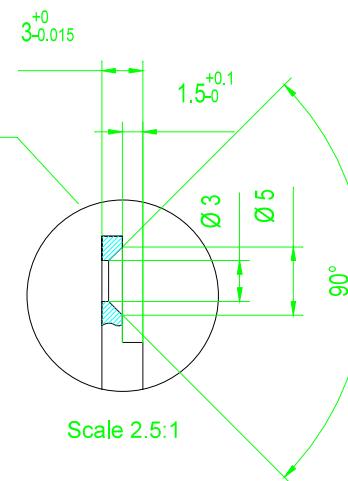
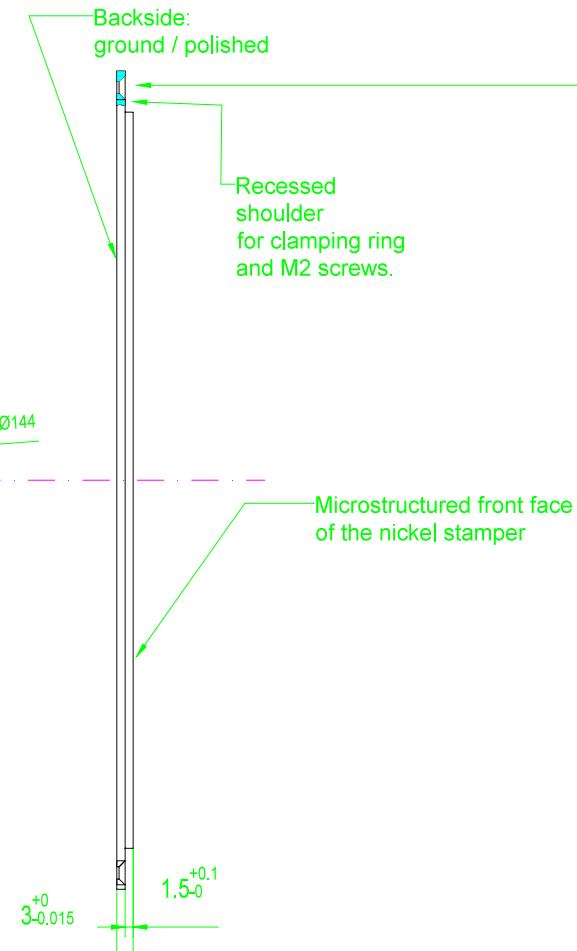
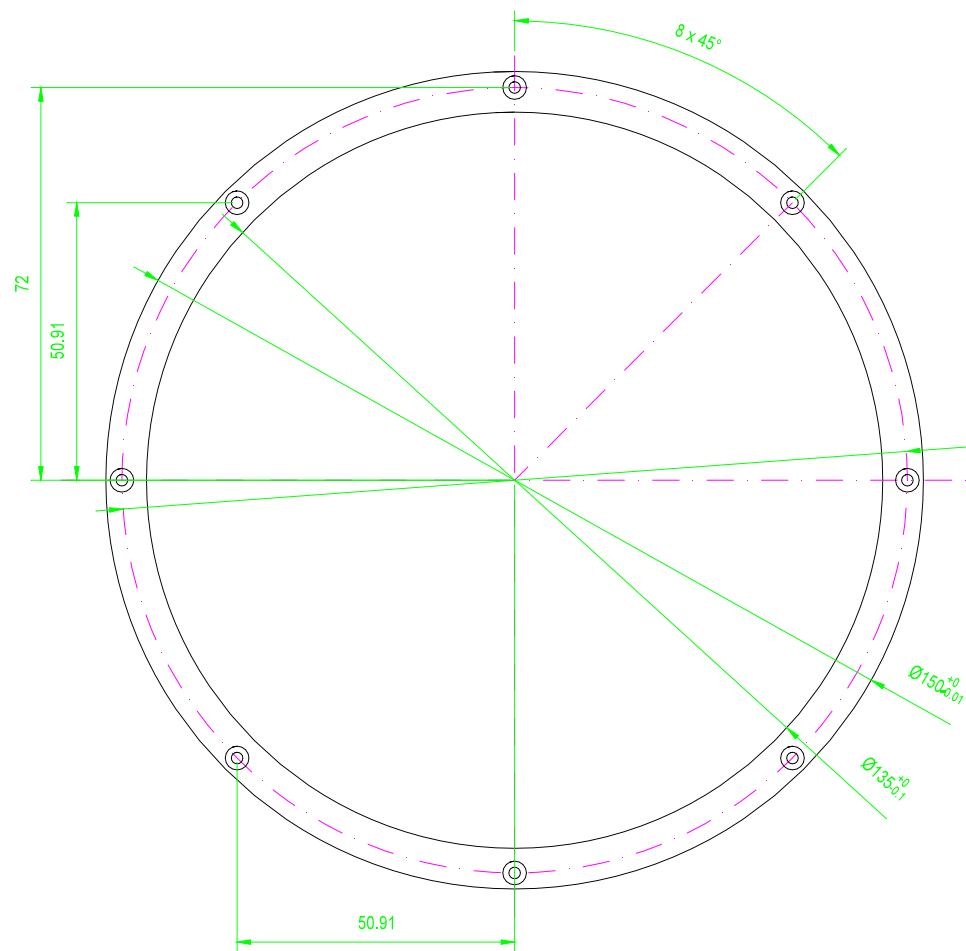


Hot embossing stamp: Specifications

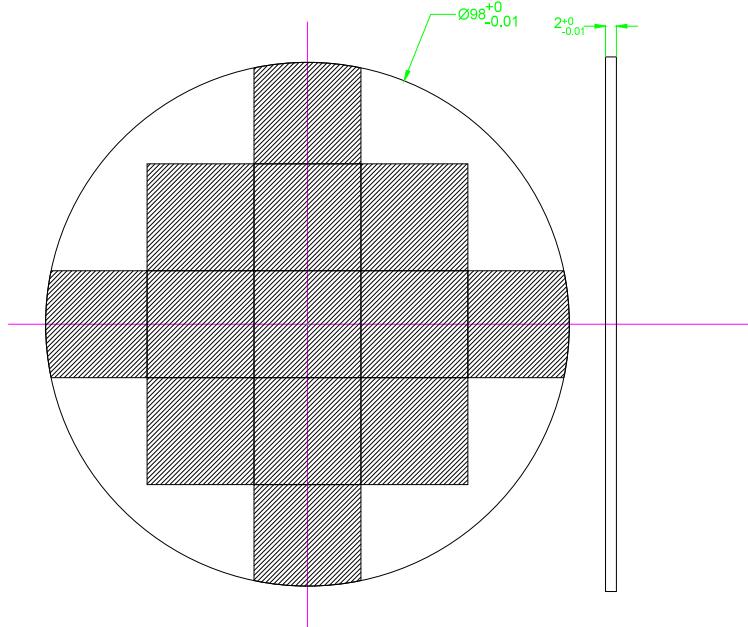
- Pattern depth range = 70nm - 500µm
- Pattern height uniformity = 3 – 5 %
- EXCLUSIVE: adjustable drafted sidewalls up to 15° (easy demolding)
- Manufacturing according to adapted LiGA-process
- Multilevel pattern available (micro+nano)
- Alignment-precision level-to-level $\leq 3\mu\text{m}$
- Alignment-precision micropattern to machined features $\leq 20\mu\text{m}$
- Stamp thickness = 0.5–3.0mm
- Maximal stamp dimensions = 300 x 300mm
- Maximal patterned area = 200 x 200mm
- Parallelism Frontside-to-backside $\leq 10\mu\text{m}$ (Backside surface grinded)
- Integration of mechanical mounting features
- Robust handling
- Ready-to-use stamps according to customer drawing
- Contour wire-electrodischarge machined (tolerance = $\pm 10\mu\text{m}$)
- Available antisticking-coating (fluoro-based)
- Available wear-protection coating (TiN)
- Compatibility to most patterning methods:
 - e-beam resists (PMMA, HSQ)
 - XIL- resists
 - UV-lithography AZ positive resists, MicroChem SU-8
 - Hot-embossed polymers, Thermal imprinting,...

Pos 1



1	1	pcs	electroformed Nickel	Microstructured nickel-stamper for hot embossing			
Pos.	Amount	Unit	Material		Description / Characteristics		
Replacement					Created	06.March 2020	R. Bischofberger
					Checked	06.March 2020	
					QA	06.March 2020	
					Released	06.March 2020	R. Bischofberger
			1 chamfer enlarged mounting holes	Replacement	Project-No.	06-03-2020	
					Substitute for	ams-27-09-05	Number of sheets
					Replaced for	n.a.	Sheet-No.
(c) 2020 microSWISS			Project				Drawing number
			Customer specific hot embossing tool				EVG-HET-17-01-2020

Pos 1



1	1		EF Nickel (Ø 100 x 2.0)	Nickel-shim	
Pos.	Menge	Einheit	Material	Benennung/Merkmale	
Aend			Aend	Erstellt: 06.March 2020 R. Bischofberger	Massstab
				Geprueft: 06.March 2020	
				Normgeprueft: 06.March 2020	
				Freigegeben: 06.March 2020 R. Bischofberger	
Ohne Zeichnung <input type="checkbox"/>			Auftrags-Nr: n.a.		
Zeichnung gleicher Nr: <input type="checkbox"/>			Ursprung: 06.March 2020	Anzahl Blatt: 1	Blatt-Nr: 1
Zeichnung anderer Nr: <input type="checkbox"/>			Ersatz fuer: none		
(c) 2020 microSWISS		Benennung: Jenoptik-HEX Stamp			Zeichnungsnummer: HEX-Stamp_06-03-2020