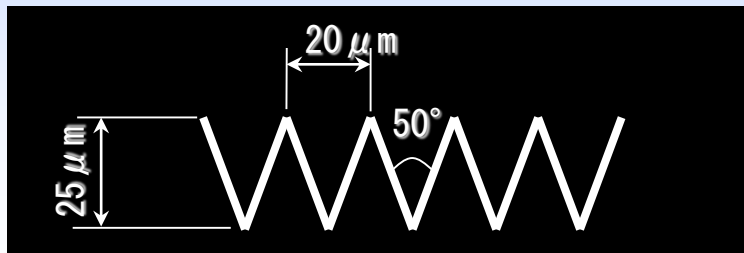
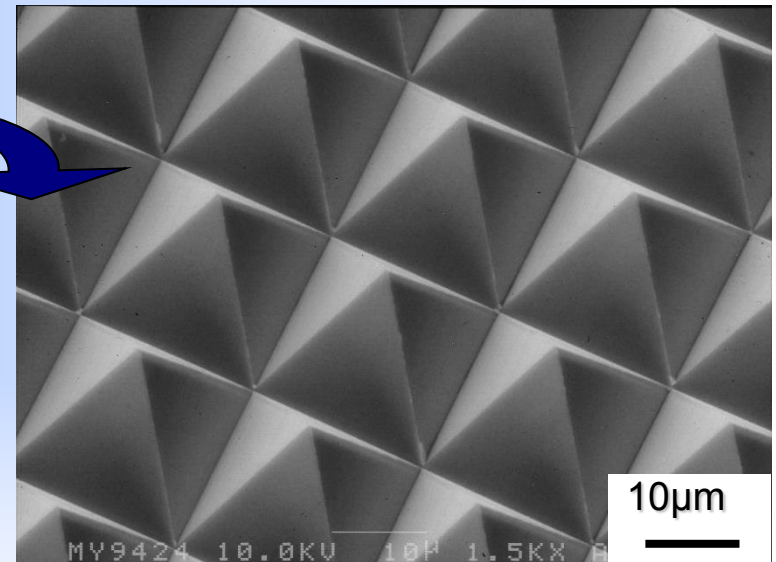
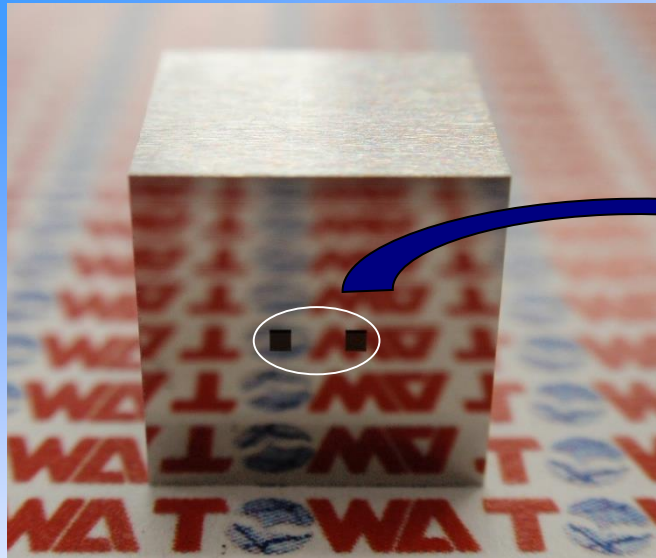


Ultra-Precision, Micro-fabrication Technologies

Mold processing case

Cross Groove

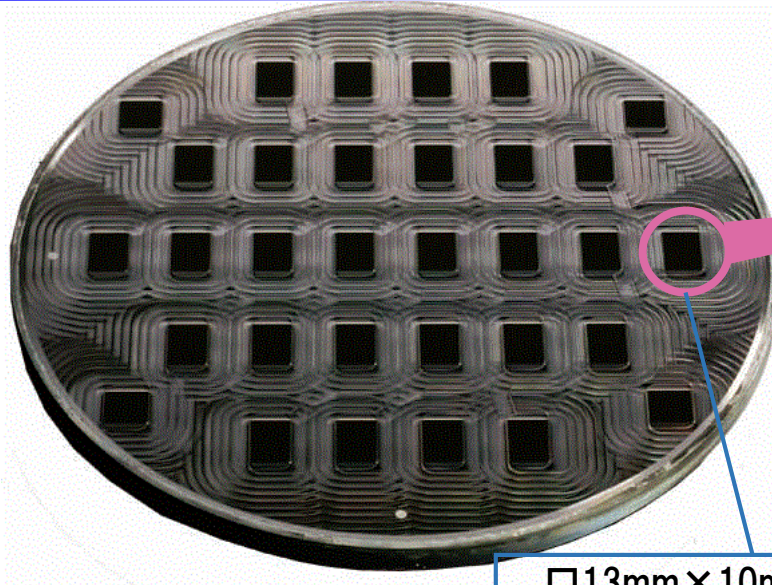


Material : Ni-P

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Mold processing case

Ultra-fine Shaping Mold

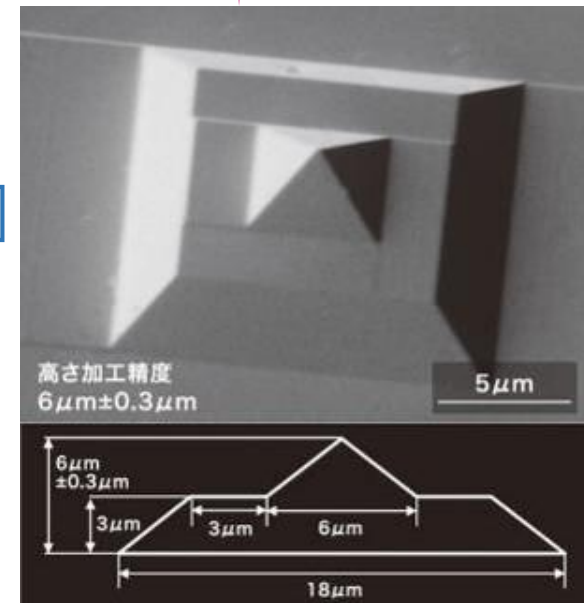
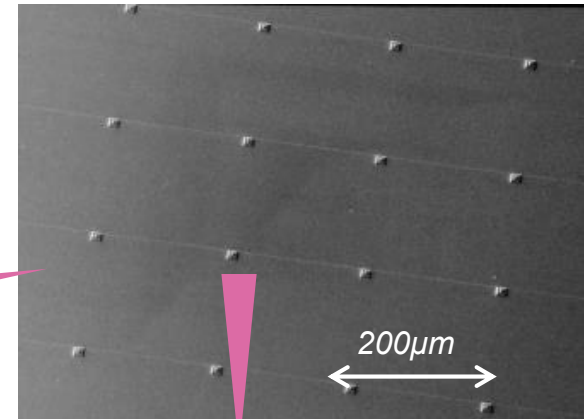


□13mm×10mm ×28pcs

Material:Hardening Stainless Steel+Ni-P

Provide pyramid shapes (Height $6\mu\text{m}$ 50,000 pcs in total) on whole area($\Phi 220\text{mm}$)

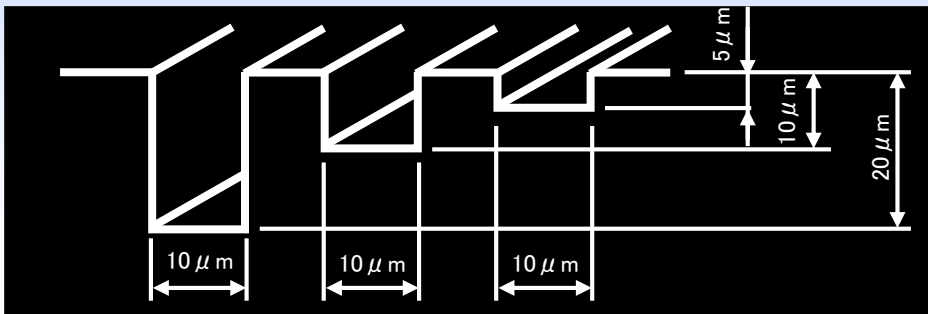
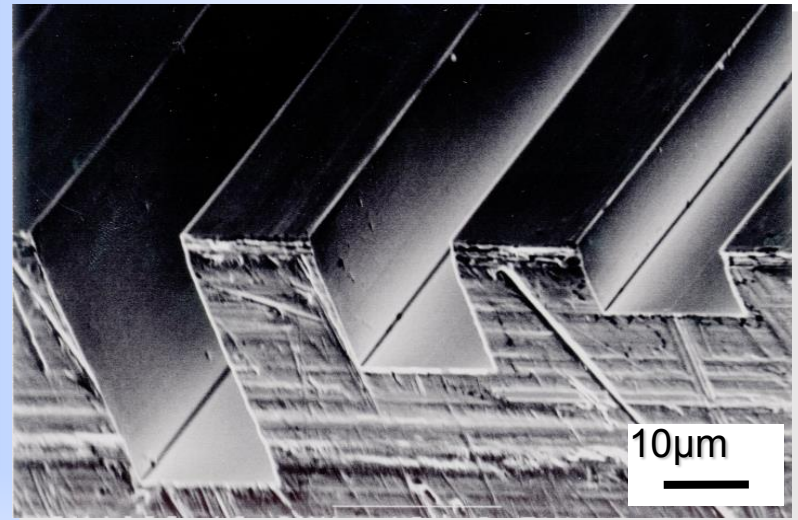
Realize excavated processing on height accuracy $0.3\mu\text{m}$ or less



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Mold processing case

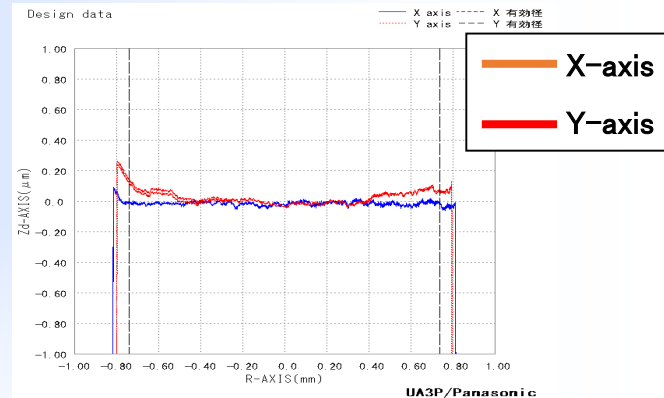
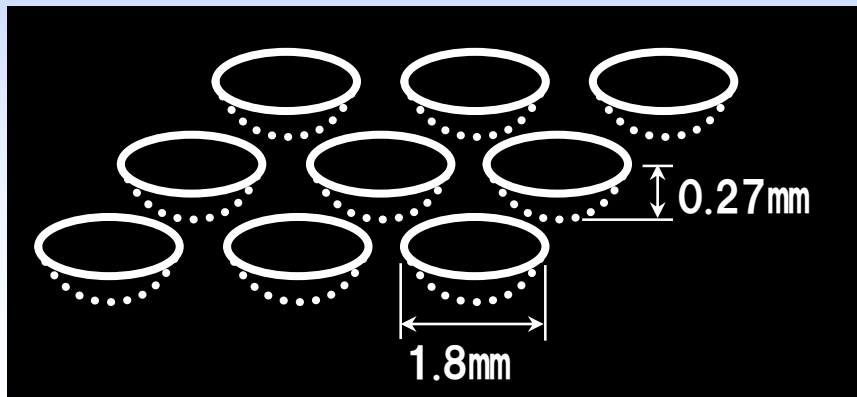
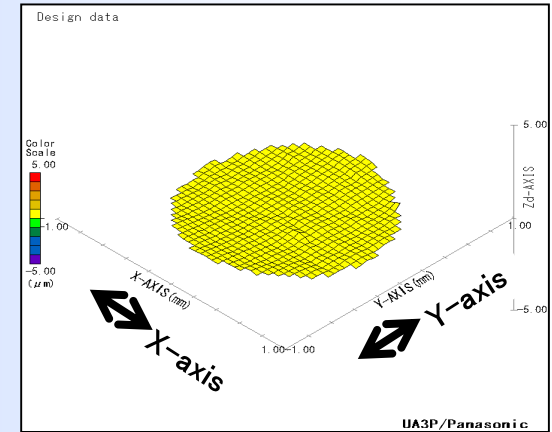
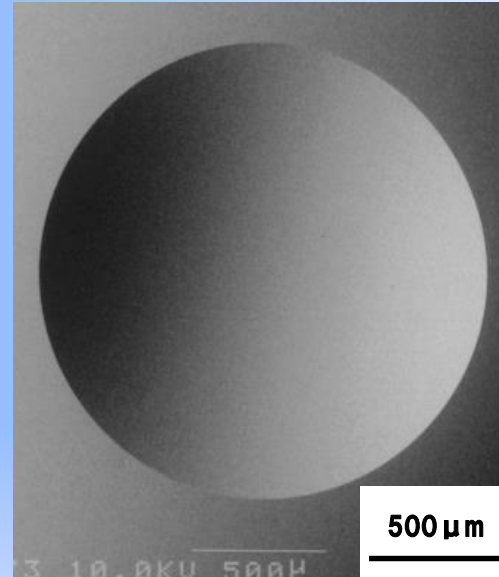
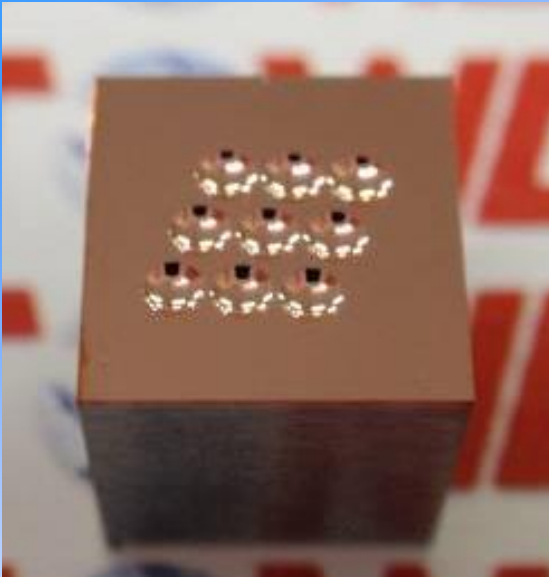
Nano Groove



Material : Ni-P
angle accuracy : 0.1deg or lower

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Aspherical Lens Mold



X軸・Y軸差分データ

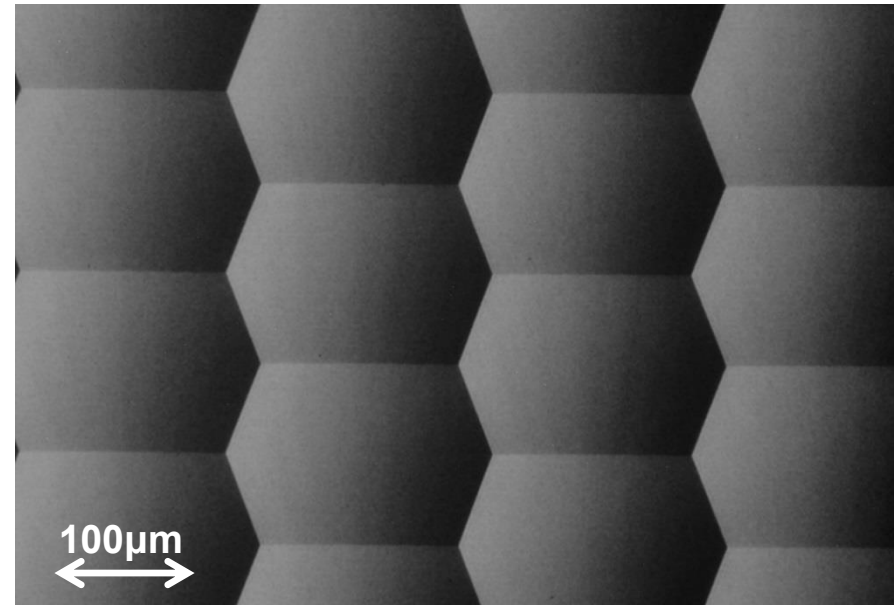
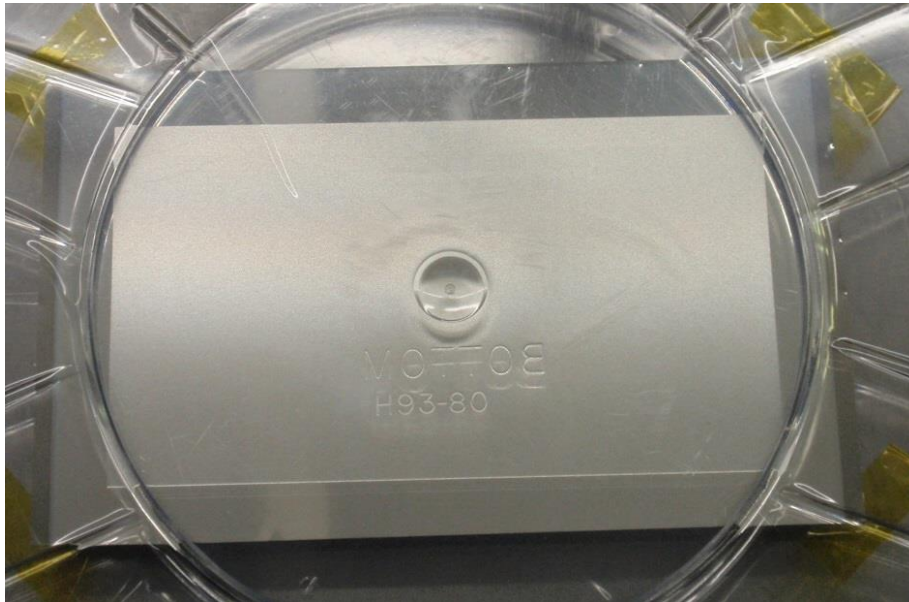
Contour Shape Accuracy in
Lens P-V=0.1940 (μm)

Material : Hardening Stainless Steel +Cu coat

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Mold processing case

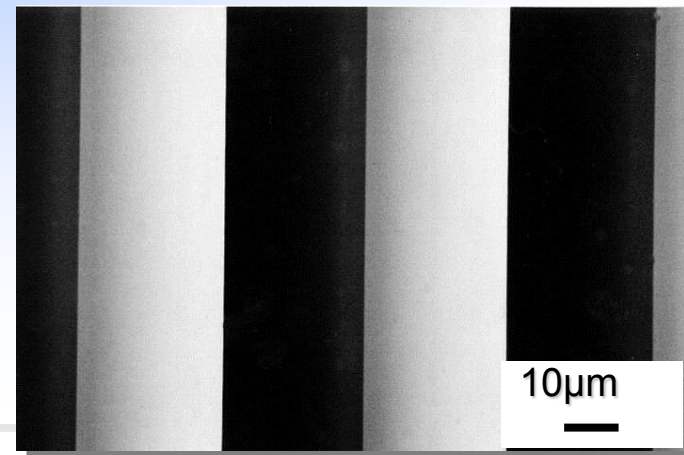
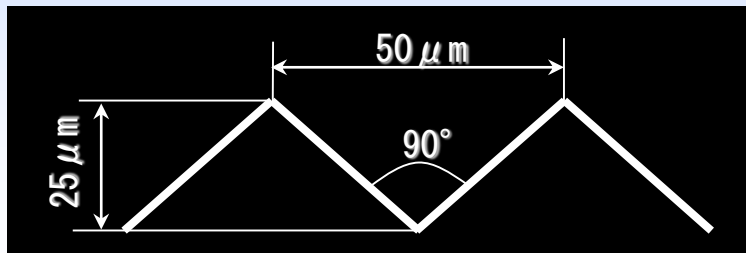
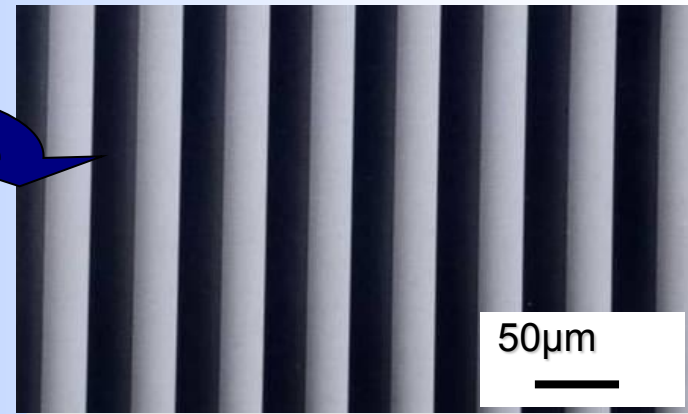
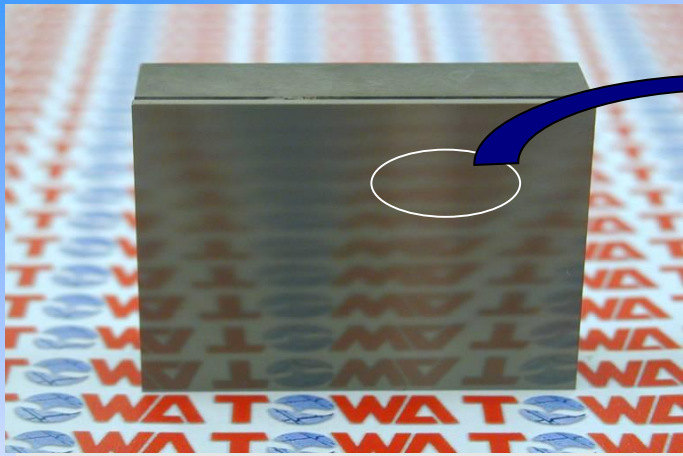
MLA Die



- Lens Curvature : $R250\mu m$ □
- Lens Pitch : $150\mu m(x) \times 100\mu m(y)$
- Lens surface roughness : $4nmRa/1 \sim 500,000pcs$
- Lens aperture ratio(FF Level): 100%
- Material of Stamper : Ni

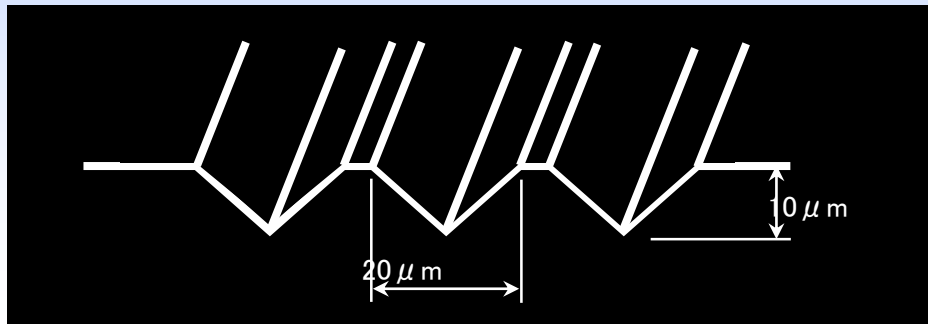
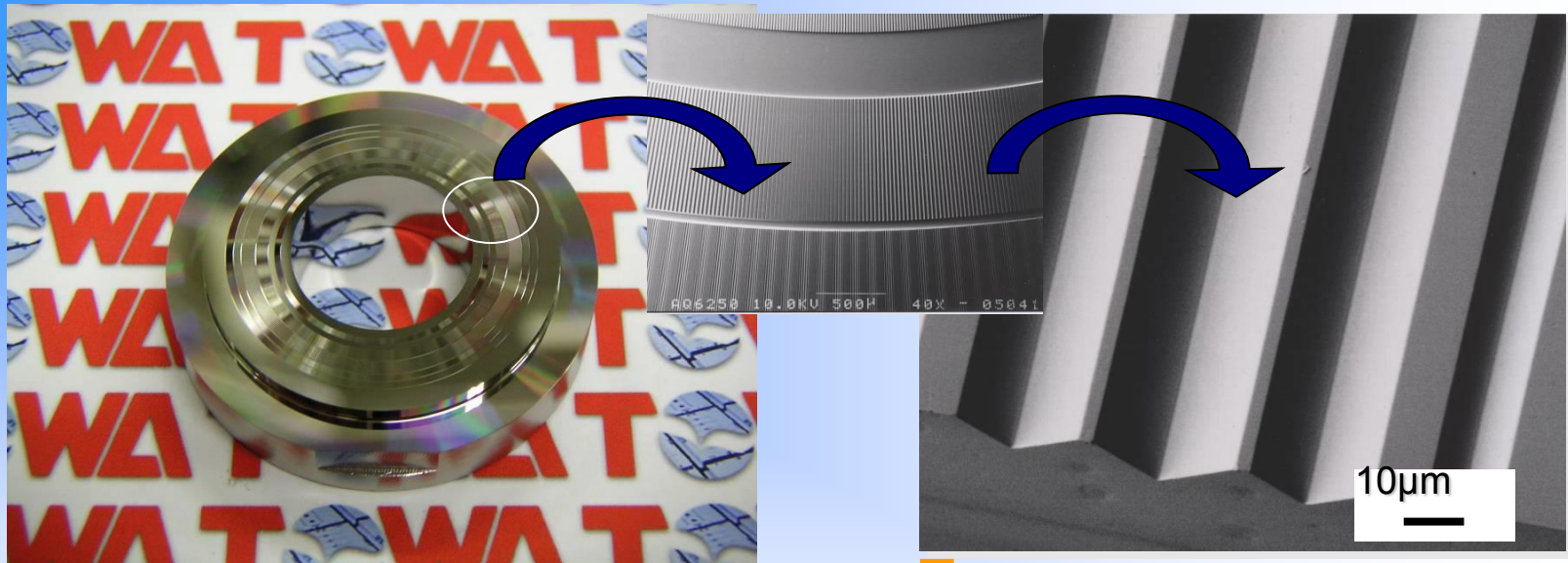
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V Groove



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Micro Encoder



Micro Encoder