

SUPER POLISHING

LOW SCATTERING



SUPER POLISHING

EXCEEDING YOUR EXPECTATIONS



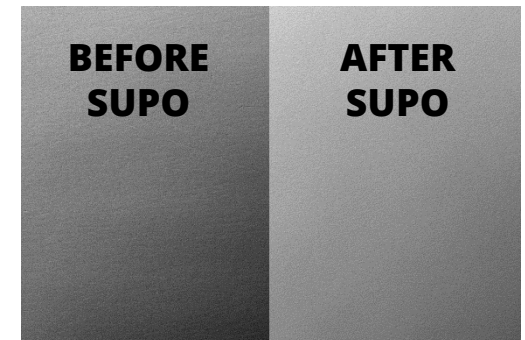
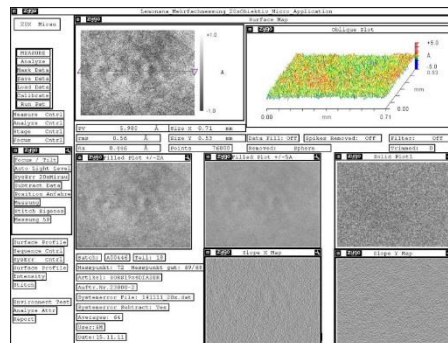
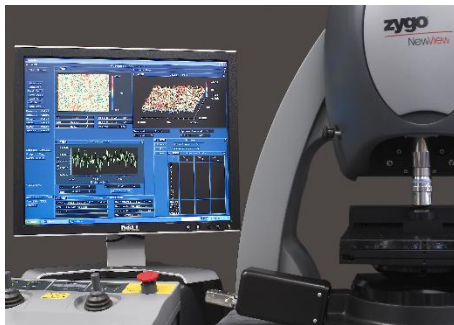
ROUGHNESS

Roughness: < 0.6 Årms measured with Zygo NewView 6300 over an area of 0.75mm x 0.5mm

Type: Plano and radius surfaces

ROC: > 1000mm

In development: ROC < 1000mm



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SCATTER

Scatter:

< 5ppm @ 633nm

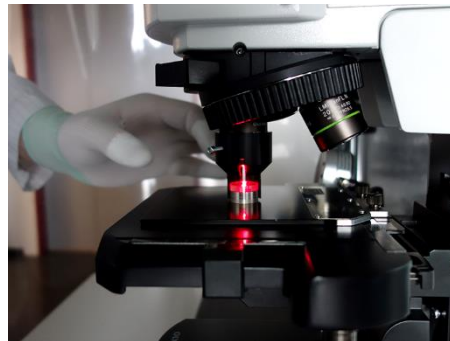
< 10ppm @ 633nm for a yield of more than 95%

Area:

1mm x 1mm

In development:

Scatter measurement device for different wavelength
(543nm, 1064, ...)



**BEFORE
SUPO**

**AFTER
SUPO**



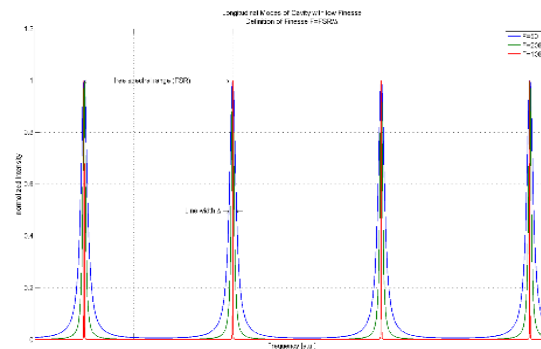
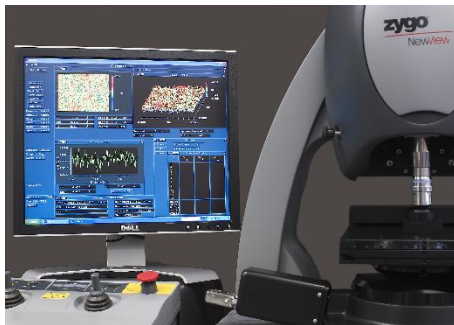
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FINESSE

Finesse: > 100 000 @ 1550nm
In development: > 200 000 @ 1550nm



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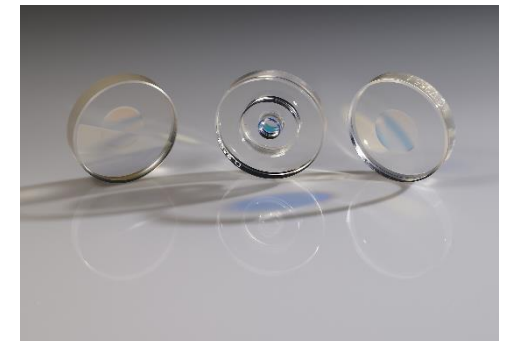
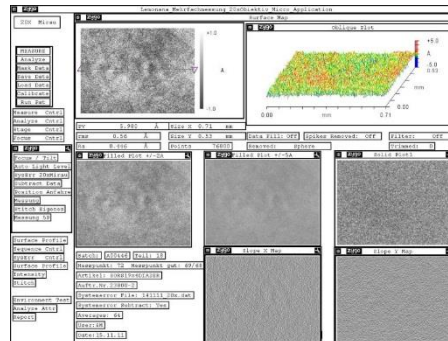
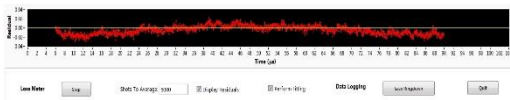
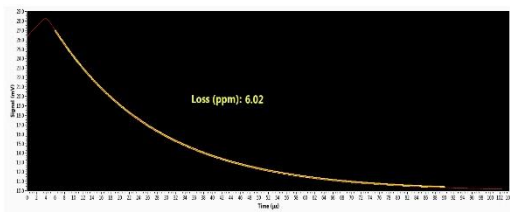
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HIGH REFLECTIVITY

Refectivity:
Highlight:

> 99.999% @ 633nm
Extreme low loss coatings



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BLOCKS

Angle: < 5 arc sec angle tolerance
Measurement: Hexagon 3D Optiv Performance 443
Shape: Rectangular, Triangular, Special shape



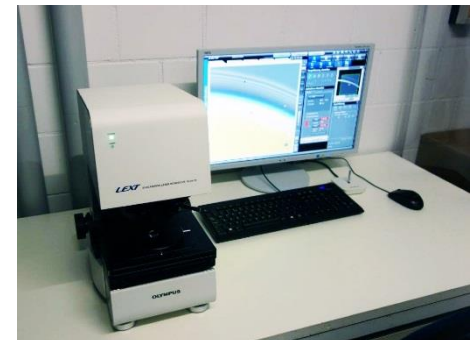
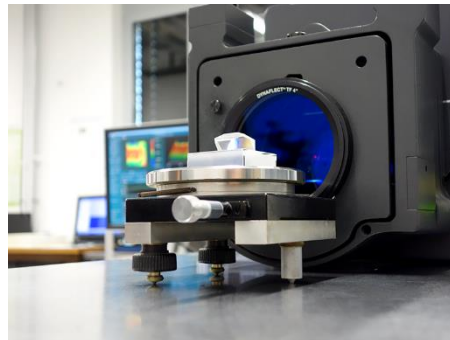
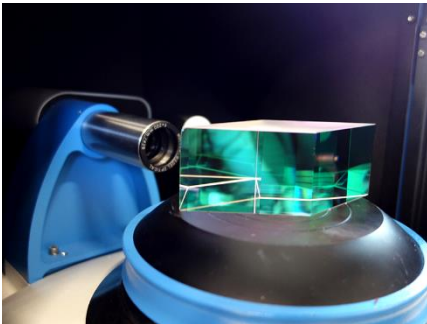
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METROLOGY

Parallelism: < 1 arc sec
Flatness: < $\lambda/20$
Surface quality: < S:D 5:1



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NEW – HEXAGON OPTIV 443

Measurement area: 400 x 400 x 300 mm
Measurement accuracy: X: $1.9 + 4L/1000$ (μm)
Y: $1.9 + 4L/1000$ (μm)
Z: $1.9 + 5L/1000$ (μm)

