

WE KEEP A CLEAR VIEW

Even in complex processes of development



High Precision Polishing

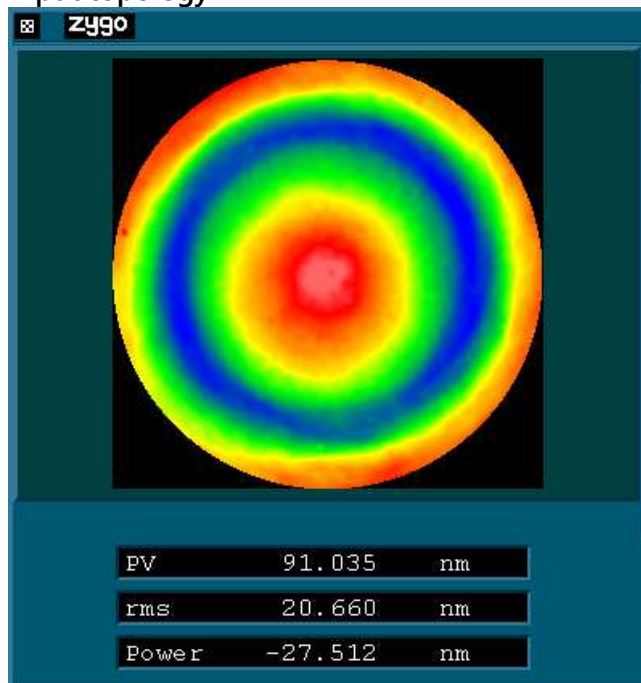
Scope: Reduce surface shape irregularities of miniaturized optical components with diameters smaller than 8.00mm to a minimum.

Realization: Creation of a two step production process.

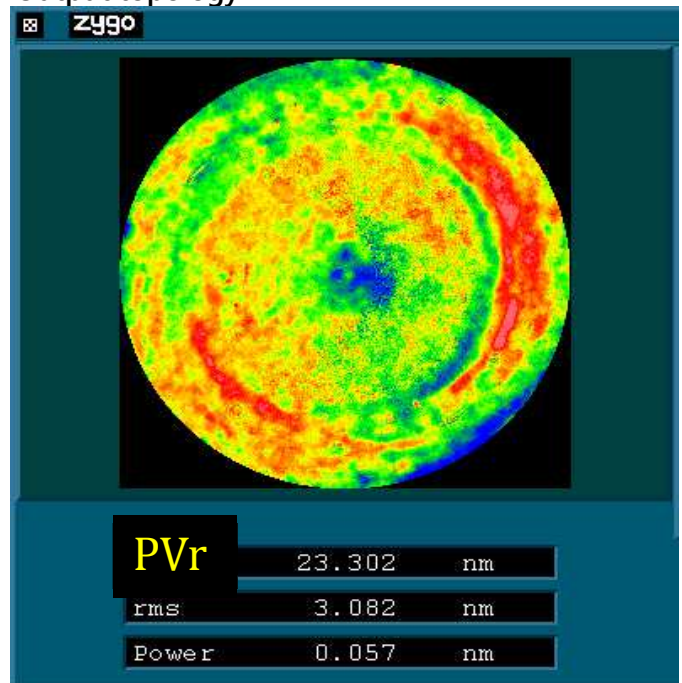
- 1.) Accurate pre- fabrication by CNC- and Hybrid- polishing process.
- 2.) Final- fabrication by Ion Beam Polishing *

Results: Optimized surface shape down to irregularities of only **PVr = 23.302nm**.
 Lens diameter = 4.02mm
 Radius = 3.698mm (concave!)

Input topology



Output topology



* The Ion beam polishing was done at NTG Neue Technologien GmbH & Co. KG, Gelnhausen, Germany.