



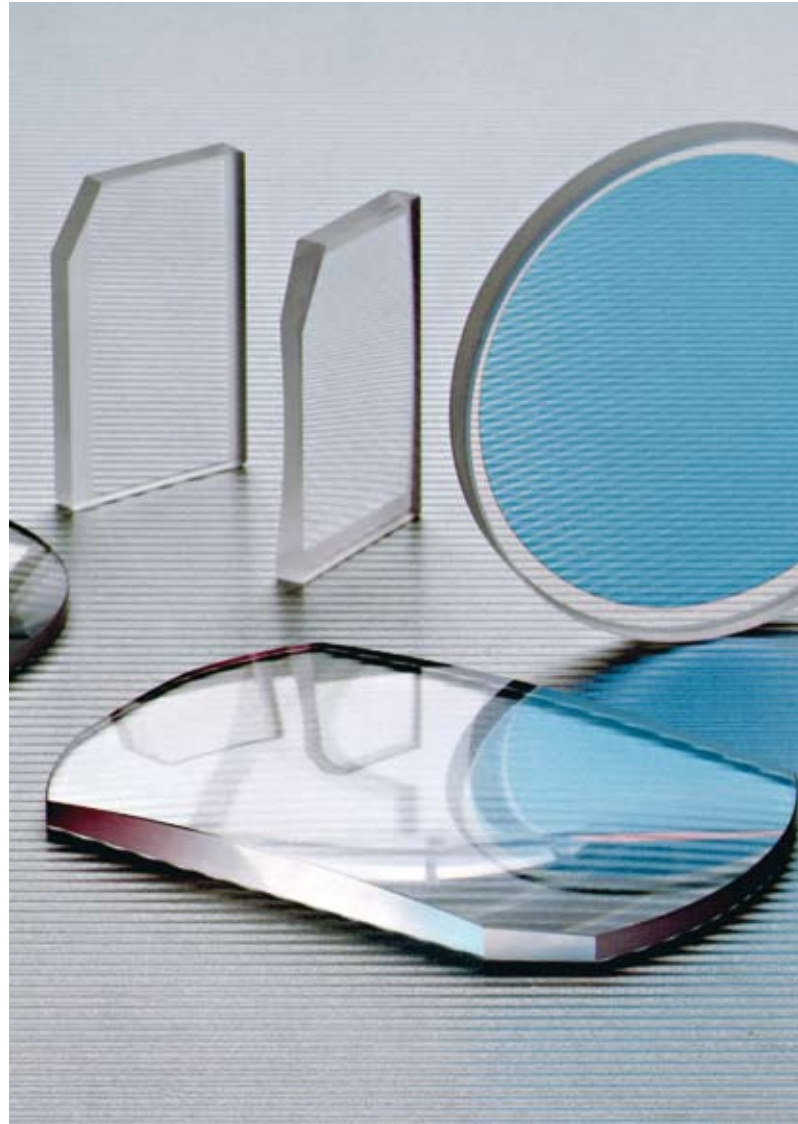
Precision Cylindrical Components

Computer Generated Hologram tested quality

Know-how:

- Technology und Manufacturing Equipment:
CNC grinding, conventional polishing,
CNC polishing, CCP, MRF
- Measurement:
2D/3D tactile,
interferometric (Computer Generated Hologram*)
- Design:
Optical Design Department
- Application:
Laser projection, holography, optical information
processing and computing, mirrors, imaging lenses

* Proprietary know-how and technology for design and manufacture of CGHs.



Precision Cylindrical Components

Specifications

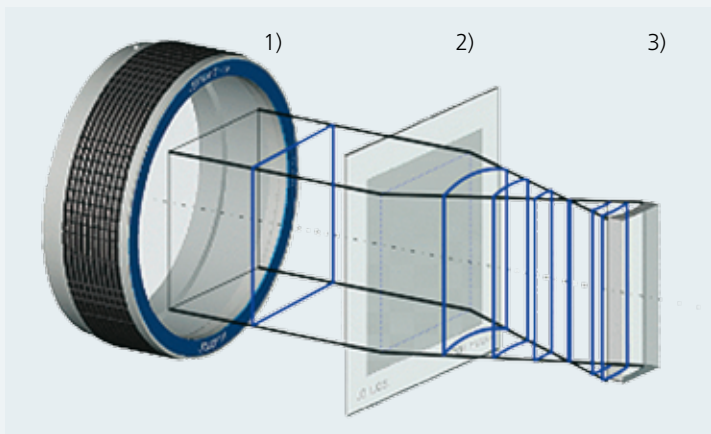
Manufacturing Range

Diameter:	20 mm - 200 mm
Dimension:	20 x 20 mm ² to 200 x 200 mm ²
Workpiece radius range:	cx hemisphere, cc >100 mm
Material:	Optical glasses, Zerodur®, fused silica, calcium fluoride, crystals, IR-materials
Edge Shape:	On customer's request

Manufacturing Tolerances

Attribute	Test range	Units of measure	Value
Total error root mean square of surface flaw	≤ 25 mm	nm	10
	> 25 mm	nm	15
	> 50 mm	nm	35
	> 100 mm	nm	50

Test wavefront transformation from planar to cylindrical.



- 1) Interferometrical Test-Lens JENfizar®
- 2) Cylinder CGH
- 3) Cylindrical Lens

It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.



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