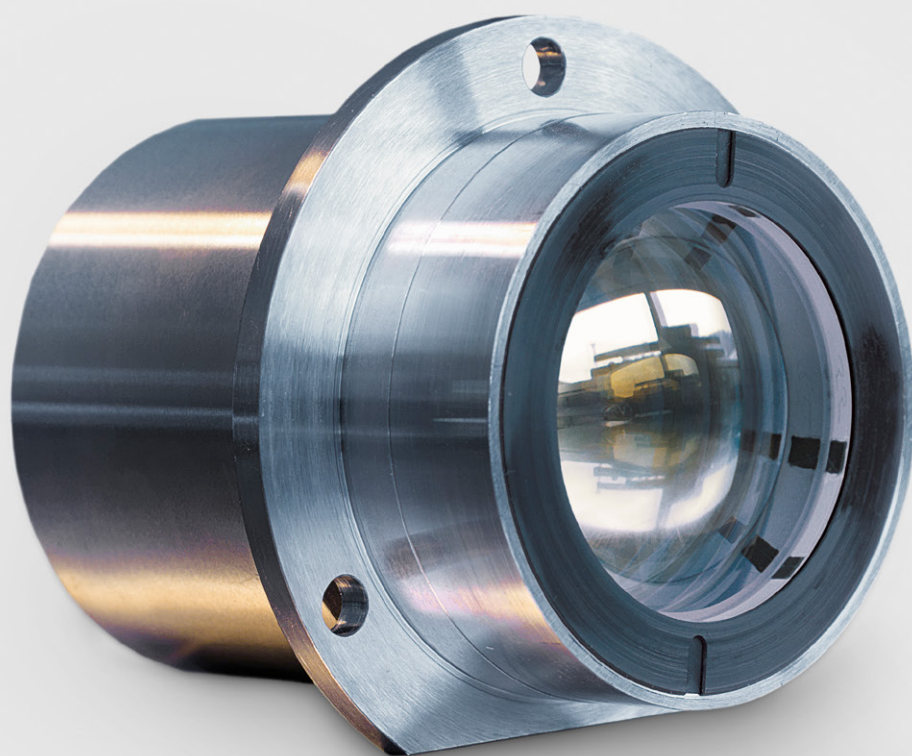


CUSTOMIZED LENSES.
FOR HIGH-PERFORMANCE
APPLICATIONS.



CUSTOMIZED LENSES.

APPLICATIONS

Fields of application:

- ▶ Illumination
- ▶ Focusing

Measurement procedures e. g.:

- ▶ Reticle inspection
- ▶ Wafer inspection
- ▶ Metrology
- ▶ Positioning
- ▶ Ablation

SPECIFICATIONS

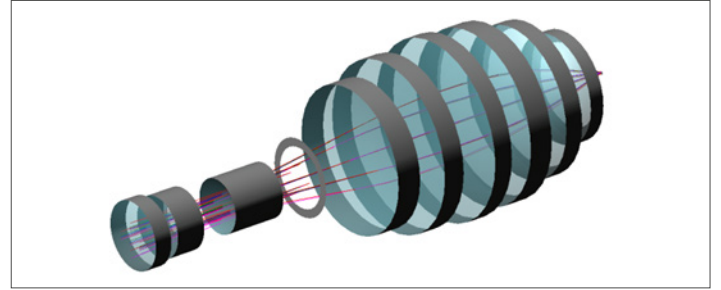
- ▶ Lens components \varnothing 5–300 mm
- ▶ Lenses for wavelength range 193–1,300 nm
- ▶ Focal length 8–100 mm
- ▶ Wavefront accuracy 0.04λ RMS (λ working wavelength)
- ▶ Diffraction limited

HOUSING

- ▶ According to customer specification
- ▶ Mechanic design inhouse
- ▶ Nitrogen or clean dry air flushed
- ▶ Lens built with compensation method

TEST & QUALIFICATION

- ▶ Lens qualification with customized metrology
- ▶ Qualification in operating position
- ▶ Compensation alignment



CUSTOMIZED METROLOGY

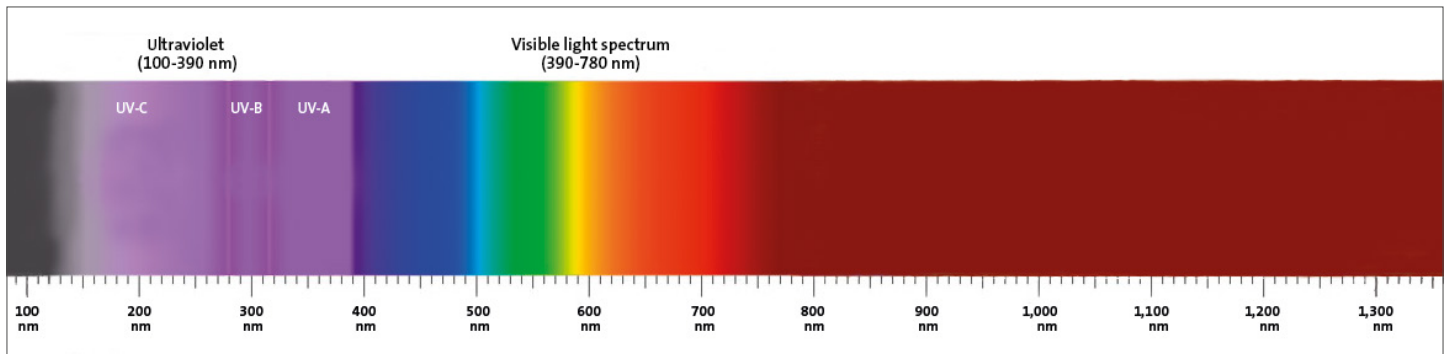
- ▶ Inhouse development
- ▶ Composition of measurement set-ups
- ▶ Measurement set-ups designed in function orientation
- ▶ Measurement of
 - ▶ Boresight errors
 - ▶ Distortion
 - ▶ Wavefront
 - ▶ Spectral reflection/transmission
 - ▶ Field of curvature
 - ▶ Focal length for field angle
 - ▶ Objective & image position
- ▶ Metrology for alignment

CLEAN ROOM PRODUCTION

- ▶ Assembly/Mounting
- ▶ Adjustment
- ▶ Measurement
- ▶ Clean room class ISO 5 with AMC* (VOC**)

* airborne molecular contaminations

** volatile organic compounds



Wavelength range