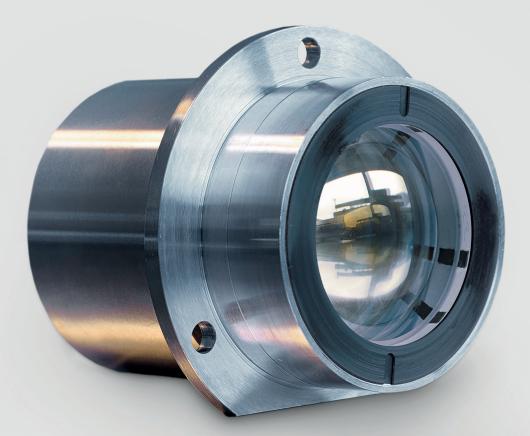
# **CUSTOMIZED LENSES** FOR HIGH-PERFORMANCE APPLICATIONS





# **CUSTOMIZED LENSES**

#### APPLICATIONS

#### **Fields of application**

- Illumination
- Focusing

#### Measurement procedures e.g.

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

#### SPECIFICATIONS

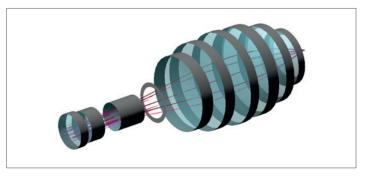
- ▶ Lens components Ø 5-300 mm
- Lenses for wavelength range 193–1'300 nm
- ► Focal length 8–100 mm
- Wavefront accuracy 0.04  $\lambda$  RMS ( $\lambda$  working wavelength)
- Diffraction limited

### 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



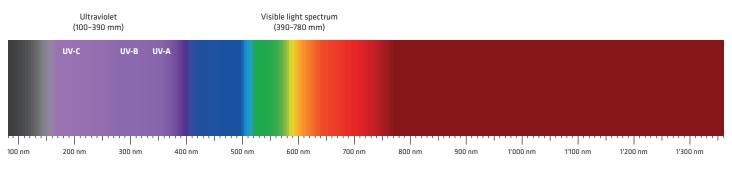
### **CUSTOMIZED METROLOGY**

- ▶ Inhouse development
- Composition of measurement set-ups
- Measurement set-ups designed in function orientation
- Measurement of
  - Boresight errors
  - Distortion
  - Wavefront
  - Spectral reflection/transmission
  - ▶ Filed 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

