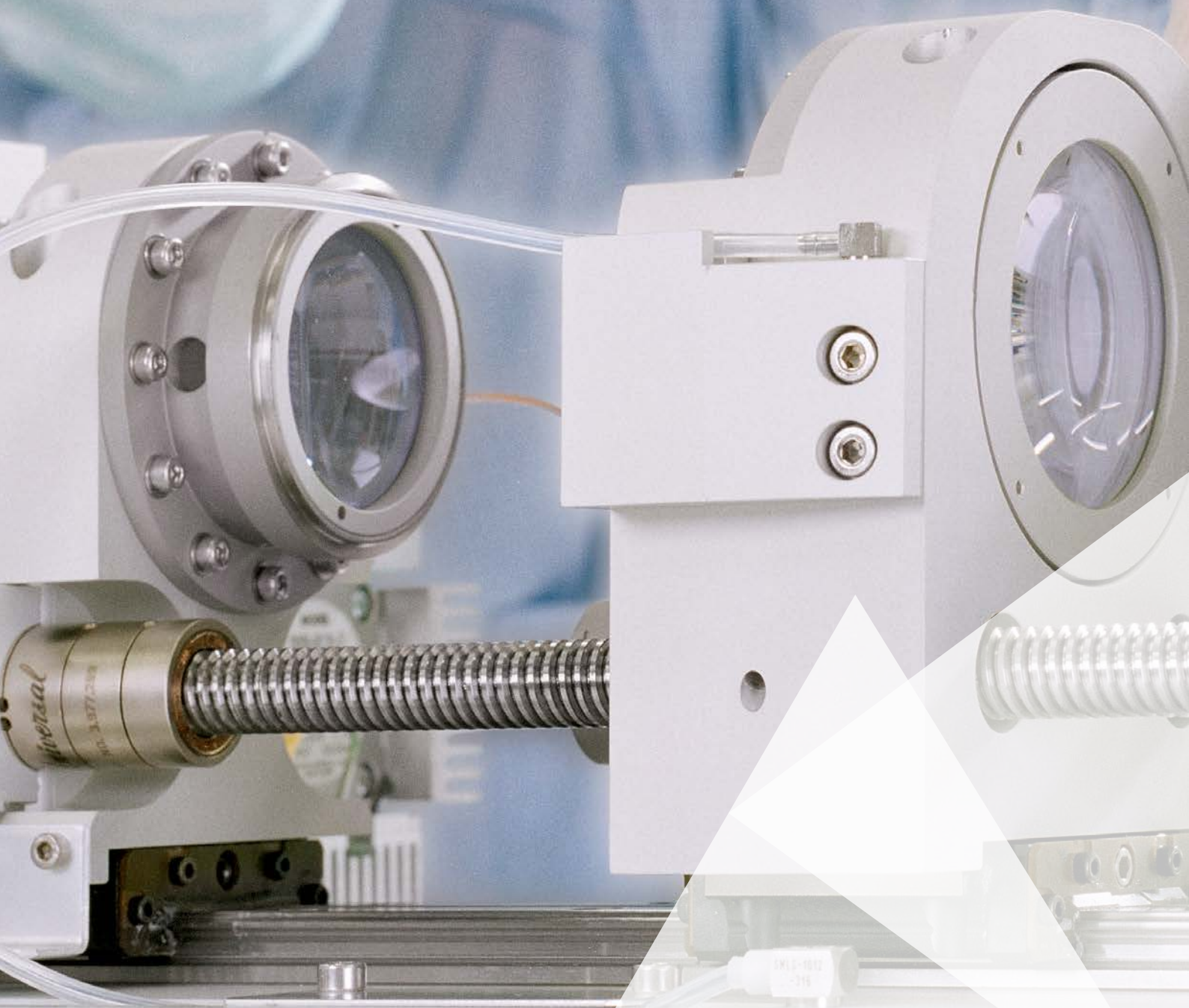


**CUSTOMIZED MODULES.**  
HIGH-PERFORMANCE FOR  
ILLUMINATION AND IMAGING.



# CUSTOMIZED MODULES.

## APPLICATIONS

### Fields of application:

- ▶ Illumination
- ▶ Imaging

### Products e. g.:

- ▶ Zoom modules
- ▶ Relay optical systems
- ▶ Beam conditioners
- ▶ Homogenizers
- ▶ Condensers
- ▶ Telescopes
- ▶ Lenses

## SPECIFICATIONS

- ▶ Module sizes up to 500 mm
- ▶ Mobile components which can be shifted pneumatically or via piezo technology
- ▶ Modules can include polarization optics
- ▶ Integration of optical bonding
- ▶ Wavelength 193-1,500 nm

## HOUSING

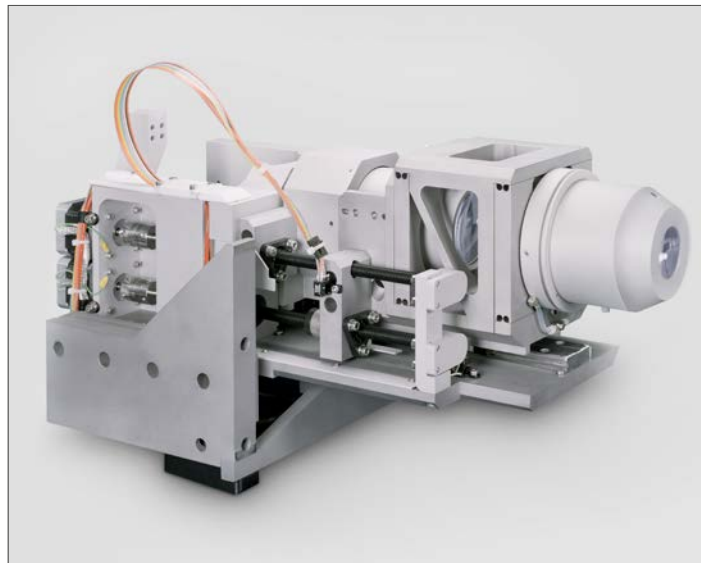
- ▶ Materials: Aluminum, steel, stainless steel, titan and nickel plated aluminum
- ▶ Nitrogen or clean dry air flushed

## TEST & QUALIFICATION

- ▶ All test & qualification inhouse
- ▶ Qualification in operating position
- ▶ Optimization
- ▶ Alignment

## CUSTOMIZED METROLOGY

- ▶ Measurement development inhouse
- ▶ Measurement of
  - ▶ Boresight errors
  - ▶ Distortion
  - ▶ Wavefront
  - ▶ Spectral reflection/transmission
  - ▶ Field of curvature
  - ▶ Focal length for field angle
  - ▶ Objective & image position
- ▶ Metrology for alignment
- ▶ Magnification
- ▶ All measurements in function orientation



## CLEAN ROOM PRODUCTION

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

\* airborne molecular contaminations

\*\* volatile organic compounds