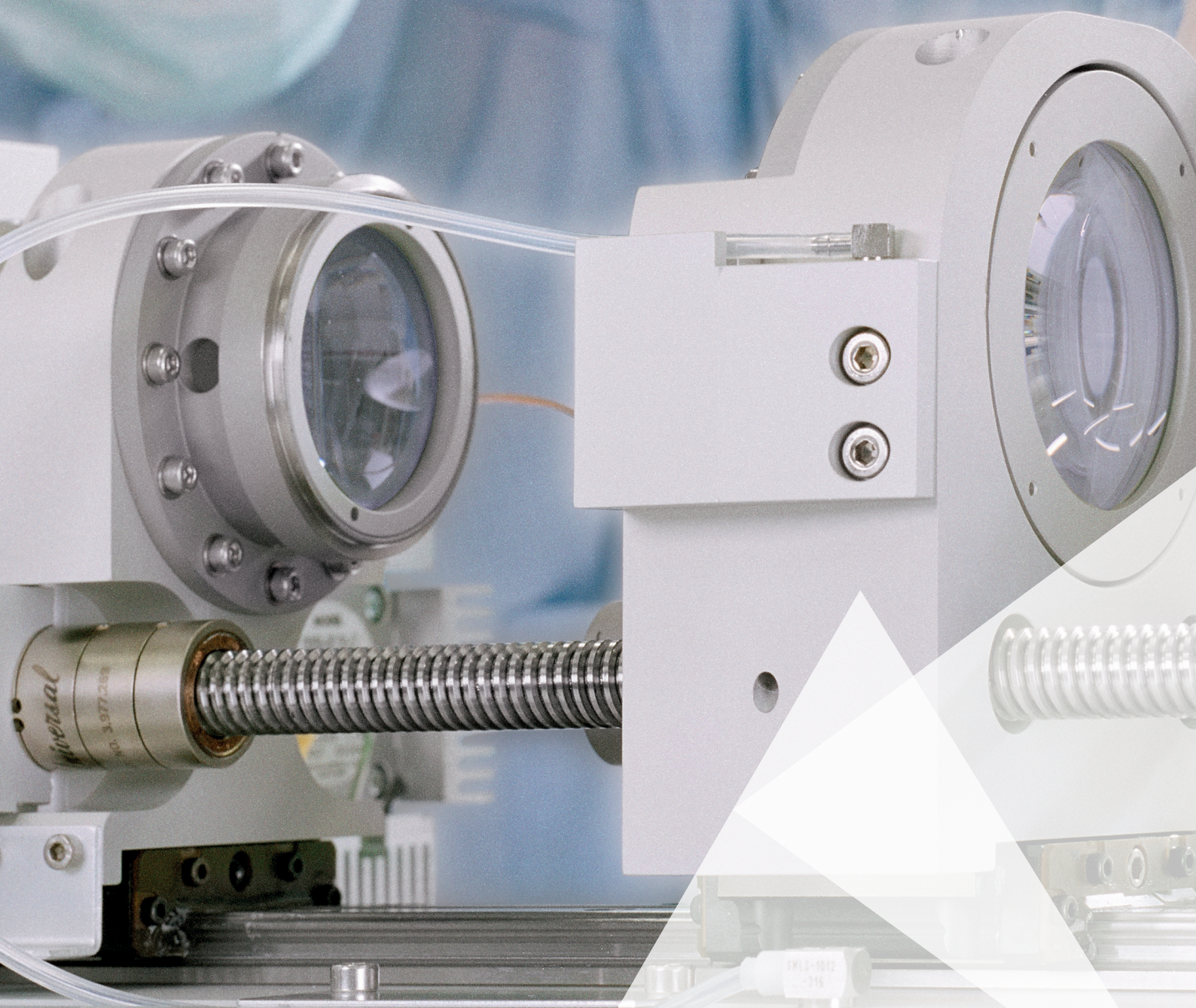


CUSTOMIZED MODULES HIGH-PERFORMANCE FOR ILLUMINATION AND IMAGING



CUSTOMIZED MODULES

APPLICATIONS

Fields of application

- ▶ Illumination
- ▶ Imaging

Products e.g.

- ▶ Zoom modules
- ▶ Replay 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

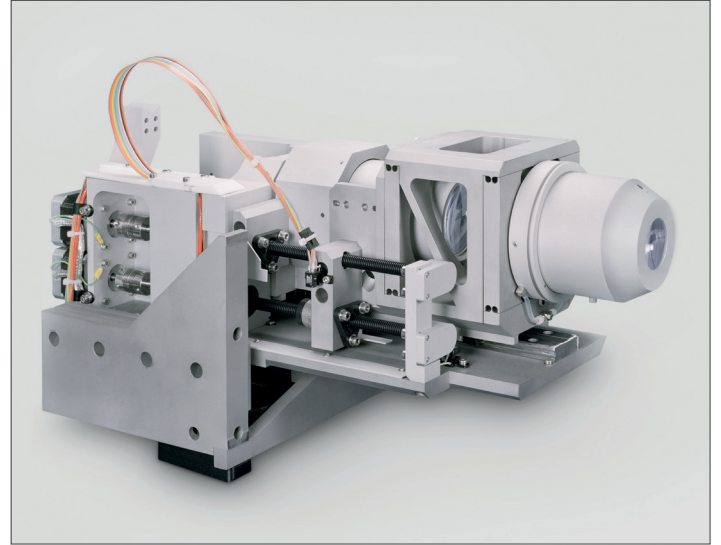
- ▶ Materials: Aluminium, steel, stainless steel, titan and nickel plated aluminium
- ▶ Nitrogen or clean dry air flushed

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
 - ▶ Filed 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