

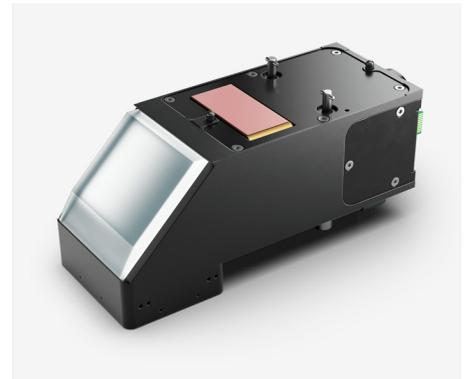
Customized Optical Systems

From concept to serial production

Complex optical solution build-to-print, build-to-spec or build-to-idea.

Your Benefits

- Design for manufacturing and design to cost consulting services.
- Conceptual support, requirement- and system engineering.
- Product life cycle management.
- Supply chain management ensuring sustainable product supply.
- Established quality control based on ISO 9001 and 13485, consistent traceability and consequent change management.



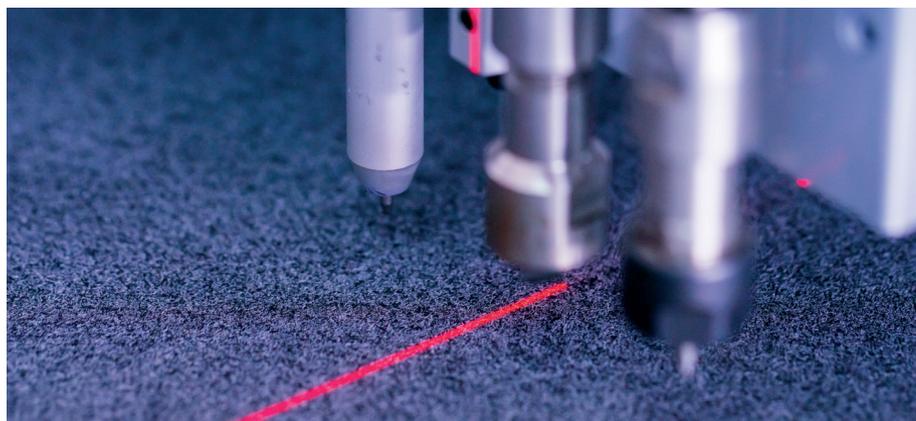
Customized machine vision module

Capabilities

- Optical and mechanical design of imaging and illumination systems
- Asphere design, fabrication and integration
- Adhesive bonding used for robust miniaturized objective and illumination assemblies
- Alignment turning used for precision lens assemblies
- Active CMOS adjustment for camera and prism subassemblies
- Advanced cementing and active front lens adjustment on compound prisms
- Validation by mechanical destructive testing, vibration testing, pressure testing, temperature storage and cycling
- Validation of optical performance with and without sensor



Customized laser writing system



Applications

- Medical Technology
- Endoscopy
- Diagnostics
- Machine Vision
- Aerospace & Defense