

# FAC Lenses

## AOC (Advanced Optical Components)

### taking the lead through quality ...

FISBA OPTIK manufactures customized FAC lenses with almost diffraction limited collimation, best coating performance and high surface quality. These features ensure highest beam quality and efficiency.

#### Just-in-time-delivery

- decreases your storage costs and increases your scheduling flexibility

#### No receiving inspection necessary

- due to documented quality control at FISBA

#### Quick delivery of your prototypes

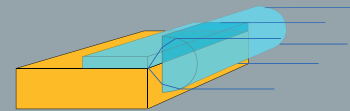
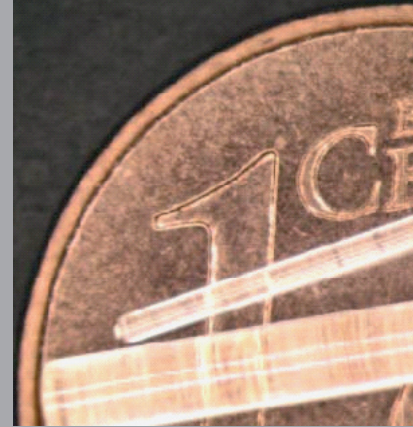
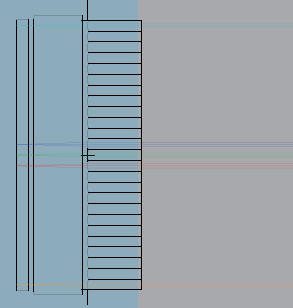
- reduces time spent on development and testing (time-to-market)

#### Coatings optimized for your application

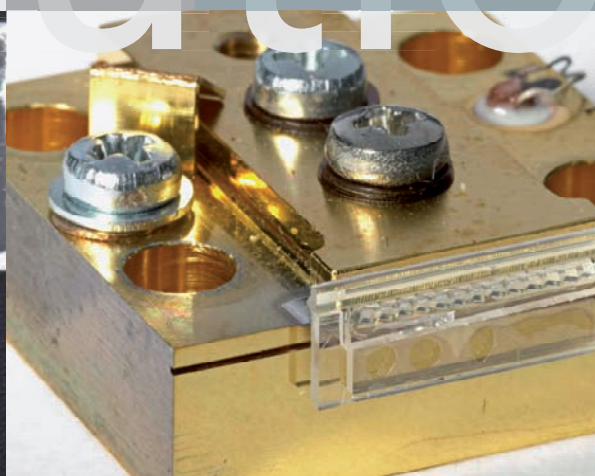
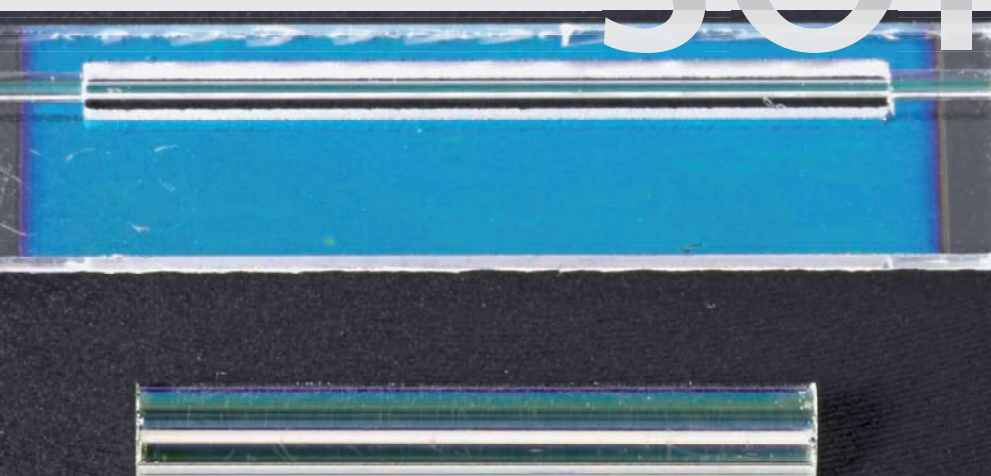
- due to our in-house coating know-how and capabilities

#### Higher beam energy per divergence angle

- due to optimized design on optical performance and coating



custom  
solution



# Putting our know-how to good use for you

Features	Units	FAC900	FAC600	FAC300
Numerical Aperture	-	0.8		
Focal Length	micron	900	600	300
Wave Length Range	nm	800-1'000		
Transmission	%	≥ 98		
Back Focal Length	micron	100	150	50
Residual divergence @ 85% Power	mrad	≤ ±1.0	≤ ±1.5	≤ ±2.5
Dimensions	mm	1.6 x 1.5	1.0 x 0.8	0.5 x 0.5
Length	mm	customized		

Other focal lengths and wave lengths available on request

## Our specific advantages:

- nearly diffraction limited collimation leads to high beam quality
- high surface quality to avoid scattering
- customized optical design and focal lengths to meet your system requirements
- mass reproducibility due to scalable manufacturing processes
- optimized coating design for optimal transmission
- FAC lenses with customized tabs available
- in-depth know-how in micro optics for laser beam shaping

## Quality assurance:

- Quality is guaranteed through measurement setups developed at FISBA OPTIK, based on state-of-the-art equipment. These measuring instruments allow measurement and documentation of the relevant parameters of the FAC lens, such as the effective focal length and the residual divergence.

## Applications:

- collimation of high-power diode-laser bars
- laser illumination sources
- anamorphic systems
- light focusing sensors

We specialize in providing made-to-measure optical solutions for your specific needs. Just let us know your requirements for your FAC lenses.