

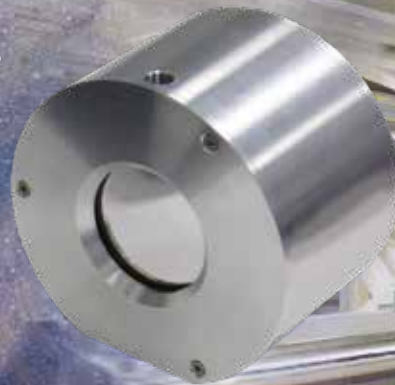
Monomorph Deformable Mirrors for High Power Lasers

Ensuring the highest wavefront correction performances, CILAS monomorph mirrors are perfectly suited for high intensity and ultra-fast laser systems to obtain an aberration-free laser beam. When positioning a monomorph mirror in the path of the laser, the distortions can be efficiently reduced leading to a significant improvement of the Strehl ratio.

A team of experts is at your service to define, customize, and manufacture the most appropriate deformable mirrors to your specific laser beam correction needs.

Major references for High Power Laser Chains

100TW laser ELFIE of LULI
Vacuum femtosecond lasers of LOA
2PW laser ORION of AWE
150TW laser DRACO of HZDR



■ DESIGN

- Pupil diameter : from \varnothing 25 mm to \varnothing 250 mm as catalog / larger diameters available upon request
- Number of cells: 63

■ TYPICAL PERFORMANCES

- Maximum stroke: $\pm 50 \mu\text{m}$ PtV wavefront
- No print-through effect
- No heat dissipation
- Very high correction of the Zernike modes up to the 9th order

■ OPTICAL FEATURES

- Optical quality < 10 nm RMS wavefront
- State-of-the-art dielectric coatings with high LIDT

■ ENVIRONMENT

- Compatible with ultra-high vacuum

■ ELECTRONIC DRIVER

- Digital electronic driver is supplied with deformable mirror

■ ADAPTIVE OPTIC LOOP

- Wavefront sensor and control loop can be supplied