DYNAMIC OPTICS

ADAPTIVE OPTICS TECHNOLOGIES

Beam Shaping module

The right solution to improve high power laser processes in manufacturing



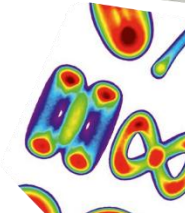












Ideal for

HIGH-POWER LASERS

LASER BEAM SHAPING

ADDITIVE MANUFACTURING

LASER WELDING AND PROCESSING

Dynamic Optics S.r.l. | P.IVA 02527820209
Via Savelli 72, 35129, Padova, Italy
https://www.dynamic-optics.it/

For more info

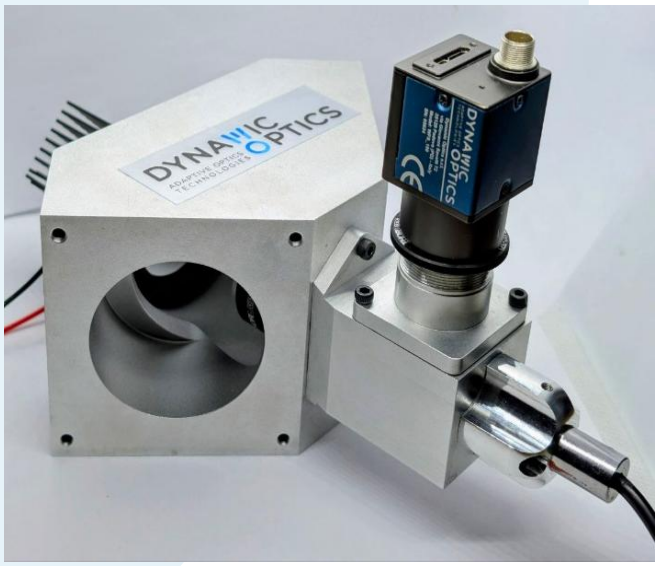
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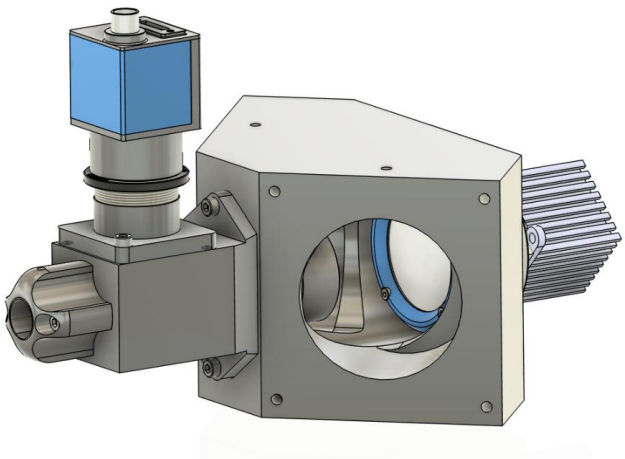
Key features

- Compatible with any type of laser
- Compatible with gaussian, super-gaussian and flat-top collimated beams
- Easy mechanical interface: 4xM4 square flange 64.5 mm center to center distance
- Beam shaping control through dedicated GUI

Technical specs

Wavelength	Coating could be designerd for any wavelegth
Angle of incidence	45° with respect to the mirror
Input beam diameter	25 mm
Beam shape on focal plane	Line, triangle, rhomboidal, ring
Deformable mirror	32 actuators
Stability	15 nm accuracy on deformable mirror shape
Maximum laser power	6 KW

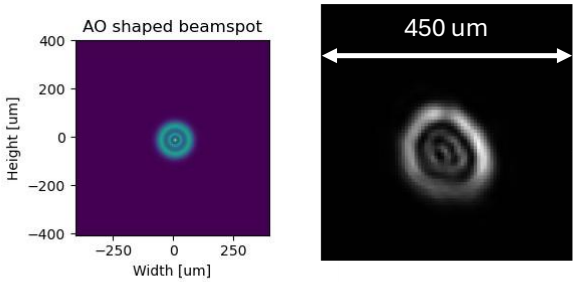




For more info

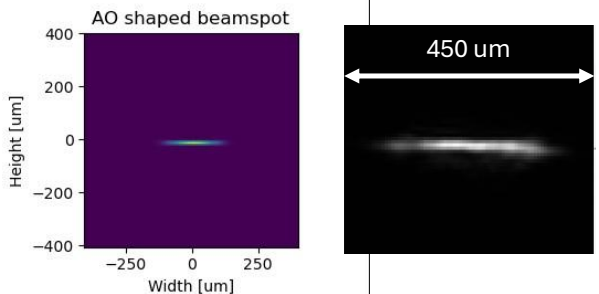
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Ring : z_4 = 0.7, z_{12} = -0.05



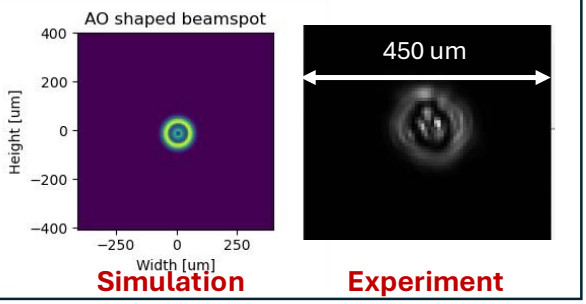
Simulation Experiment

Line : z_4 = 0.5, z_5 = 0.7



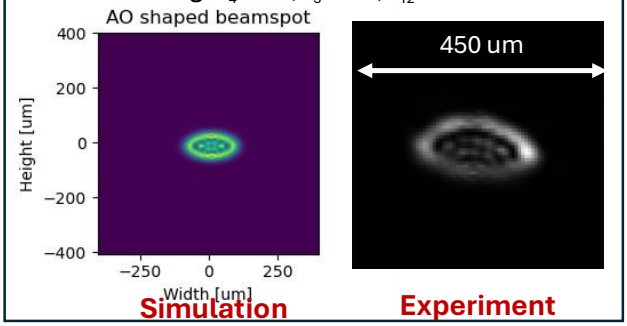
Simulation Experiment

Ring : z_4 = 0.6, z_{12} = -0.1



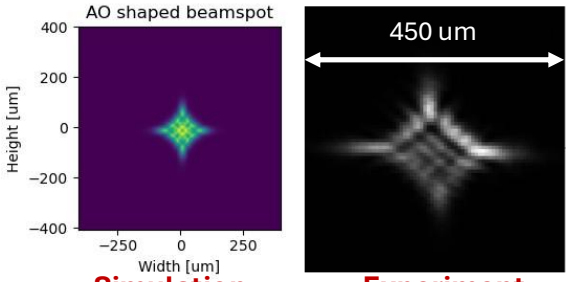
Simulation Experiment

Ring : z_4 = 0.7, z_5 =-0.3, z_{12} = -0.05



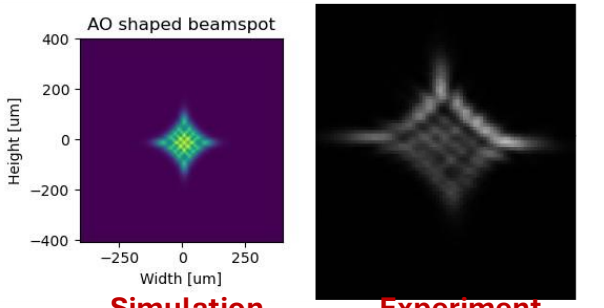
Simulation Experiment

Rhombus : z_4= 0.7, z_{14}=0.15



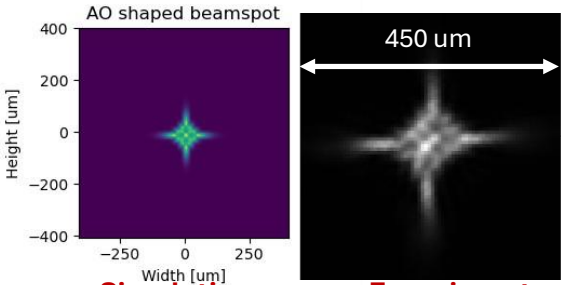
Simulation Experiment

Rhombus : z_4=0.8, z_{14}= 0.15



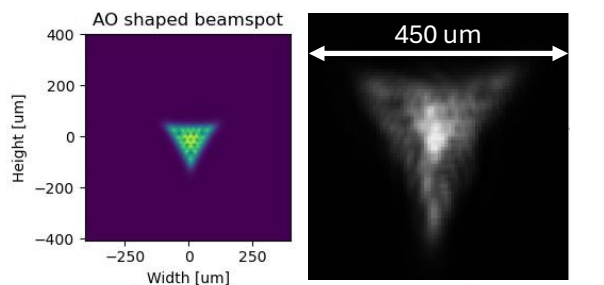
Simulation Experiment

Rhombus : z_4= -0.6, z_{14}= -0.2



Simulation Experiment

Triangle : z_4= -0.7, z_6=-0.2



Simulation Experiment

For more info