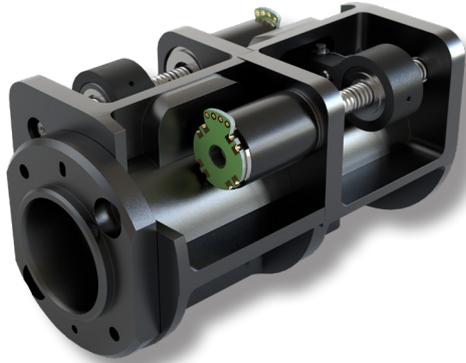


COAXIAL LENS ACTUATOR



KEY FEATURES

- Accurate positioning system
- Low friction motorized mechanism
- Innovative and compact mechanical design
- Key solution for lens displacements with perfect alignment
- Bespoke design

OVERVIEW

This optomechanical platform, is a highly accurate motorized solution for the linear displacement of lenses sharing a common optical path. Thanks to an innovative mechanical design composed of two precise guiding bearing perfectly adjusted inside a common

shared hole, amazing lateral positioning repeatability are achieved. Thought as a technical solution for any optical system requiring very low optical axis deviation and high compactness, a large panel of customizations are possible and welcomed.

TECHNICAL SPECIFICATIONS

| Specification | | |
|--|--------|--------------------|
| Number of lens holder | | 2 |
| Max Stroke (per lens) - Ball screws | [mm] | 8 |
| Max Stroke (per lens) - Cam | [mm] | 3 |
| Max. lens diameter | [mm] | 12.7 (½") |
| Optical aperture | [mm] | 11 |
| Z- Pos. unidirectional repeatability | [µm] | +/- 5 |
| X,Y lateral repeatability | [µm] | +/- 1 |
| Lens holder tilts repeatability | [mrad] | 0.1 |
| X, Y mismatch accuracy between both lens holders | [µm] | < 5 |
| Nominal Speed | [mm/s] | 5 |
| Motor type | | Stepper |
| Motor reference | | Faulhaber DM1220 |
| Drive mechanism | | Ball screws or cam |
| Motor regulation | | Open loop |
| Frame design | - | On request |
| Mechanical dimensions | [mm] | 78 x 42 x 42 |

Remark: Device under development, values subject to modification
 * Please feel free to contact us for any customization request