

MAJ : 05/04/2024



Non contractual picture

μAME 17 actuator has an astatic design, it generates bidirectional forces with a very high resolution.

1 - Description

- Its patented design is cost effective and robust.
- The system is driven by a stepper motor. It permits a stable and constant force application without power supply thanks to its irreversible mechanics.
- The output rod with its floating head allows angular and radial misalignments without generating any parasitic torque not friction.
- The actuator can be customized upon customer request

2 – Possible applications

- Mirror deformation for wavefront correction
- Application of forces with high resolution
- Static actuator with controlled force

3 – Technical specifications

Motor:

Stepper motor

Supply voltage	24V
Starting current	0.5 A

Specifications:

Force resolution	0.5 mN/step
Force range	± 17 N
Linearity (after calibration)	0,1%
Hysteresis	1%
Repeatability	0.01 N RMS
Accuracy (after calibration)	0.02 N RMS

Duty ratio:

According to application, Please ask.

Speed:

Up to 4N/s

Working temperature:

20 to 22 °C

Actuator mass:

About 60 g

Options:

- Low outgassing version
- Dedicated connector
- Controller
- Interface for fixation to a mirror

