

### APPLICATIONS

- > Large mirror for telescope
- > Fast steering mirror
- > Active stabilization

### KEY FEATURES

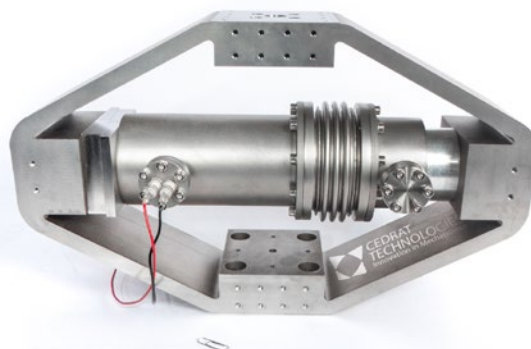
- > Long life high power piezo actuator
- > Amplified Piezoelectric Actuator
- > High voltage piezo ceramic
- > Hermetically sealed piezo stack
- > High force

### AVAILABLE OPTIONS

- > Vacuum compatibility

### AVAILABLE INTERFACES

- > On demand



| PARAMETER   | VALUE         | UNIT |
|---|---------------|------|
| <b>&gt; Quasistatic performances</b>              |               |      |
| Nominal Stroke                                    | 690           | µm   |
| Min stroke  | 650           | µm   |
| Blocked force                                     | 44229         | N    |
| Stiffness   | 64.1          | N/µm |
| <b>&gt; Dynamic performances</b>                  |               |      |
| Resonance frequency (free-free) <sup>(1)</sup>    | 1090          | Hz   |
| Resonance frequency (blocked-free) <sup>(2)</sup> | 300           | Hz   |
| Force limit <sup>(3)</sup>                        | 20000         | N    |
| <b>&gt; Control &amp; driving</b>                 |               |      |
| Voltage range                                     | -200 ... 1000 | V    |
| Capacitance <sup>(4)</sup>                        | 42            | µF   |
| <b>&gt; Dimensions &amp; interfaces</b>           |               |      |
| Height  | 215           | mm   |
| Length  | 367           | mm   |
| Width incl wires                                  | 176           | mm   |
| Mass  | 19            | Kg   |

### ANNOTATIONS

(1) Free-free: The actuator mounts are free

(2) Blocked-free: The actuator is fixed to a mechanical support assumed infinitely stiff

(3) Maximum pulling or pushing external force, valid up to 90% of the blocked-free resonance frequency of the actuator

(4) Capacitance +/- 20%, at 1 V RMS, low frequency, without load