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Positioner for positioning application in space environment, combines high axial and radial stiffness, lightness and thermo – mechanic stability.



VMP 60 – SEIS (Engineering model)

1 - Design

- The VMP 60-SEIS is driven by stepper motor. It provides an irreversible displacement through a high precision screw.
- The VMP 60-SEIS got an anti-rotation rod system, embedded to guidance, ensuring an easy application.
- Its embedded guidance provides a high radial stiffness and torsional.
- The VMP 60-SEIS is polarized under stress and enables operation under bidirectional load (on traction or on thrust) while keeping a stable positioning.
- The VMP 60- SEIS is characterized by a high thermo mechanic stability, despite its minimal weight.
- The positioner can operate in harsh environment: UVH, -80°C to + 60 °C
- Its high stiffness allows to support, without damage, vibration level during the launch.

2 - Applications

Positioning and accurate orientation on optical, sensors, samples

3 - Options

Redundant winding, sensors FDC, linear rule.....

4 - Technical Specifications

CHARACTERISTIC	SPECIFICATIONS
Travel :	60 mm
Resolution on displacement :	50 nm / steps
Repeatability :	< 0,5µm RMS without calibration
Nominal axial Load :	50 N
Axial stiffness :	3000 N/mm
Radial stiffness :	<ul style="list-style-type: none"> • 1500 N/mm position 50% output • 600 N/mm position 100% output
Travel limit :	Mechanical stop
Dimensions :	Ø26, length 185mm in input position
Qualifications level :	<ul style="list-style-type: none"> • Sinus : 0-21Hz : 11mm • 21-60Hz : 20g • 60-100Hz : 6g • Aléatoire : 20Hz : 0.03 g²/Hz • 50Hz : 3g²/Hz • 70Hz : 3g²/Hz • 200Hz : 0.006g²/Hz • 2000 : 0.006g²/Hz • Starting at -80°C • Operating at +60°C • UHV operating, baking at 120°C

5 - Dimensions (mm)

