



## Micro-Positioning actuator VMP 30-30-300-ISO5-VS

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### VMPMP 30-30-300 ensures high precision movement.

- The VMP 30-30-300 is driven by an hybrid step by step motor. It provides an irreversible translation motion through a precision screw.
- The VMP got an anti-rotation rod system ensuring an easy application.
- Its embedded linear ball bearings guide allows to support radial load
- Geometry and characteristic can be adapted upon customer's request.



Non contractual photo

**Applications:** Accurate positioning of optical and sensors

### Technical specifications :

#### Motorization:

Hybrid stepper motor, bipolar 400 steps/tn

Voltage	24 to 48V
Current	0.4 $\Omega$ /phase
Resistance	33 $\Omega$ /phase
Inductance	14 mH/phase

#### Technical specification:

Travel	30mm
Repeatability	0.5 $\mu$ m RMS
Resolution	55 nm/step motor
Linearity	<1%
Minimum increment control Recommended	3 steps motor

#### Positioner :

Standard Delivery with 3m of unshielded multi-conductors wiring ( 8x 0.25mm<sup>2</sup>) and A Sub-D plug 25 points connector

#### Stress resistance:

Axial : 300 N

Radial : 30 N

#### Embedded Options on LMJ Version:

2 NF limit contacts

Short term unidirectional repeatability for 10 operations:  $\pm$  10  $\mu$ m

**Cleanliness Class:** ISO5

**Operating temperature:** 20 to 22°C

**Mass:** 1.5 kg

#### Operation under high vacuum:

Provided for an high vacuum operation

