

**960-0050V VACUUM COMPATIBLE MOTORIZED LINEAR STAGE**



Vacuum Compatible Motorized Linear Stage 960-0050V is a newly developed stage. It boasts a possibility to operate in any orientation, which means that the stage can be hung upside-down or be operated vertically with motor facing upward or downward.

Durability of stage was taken seriously into consideration, vertical load capacity is increased to 1 kg. Stage is spring preloaded to eliminate backlash.

Design of 960-0050V ensures more stable and precise motion over full translation range.

For vertical (Z axis) mounting we offer angle bracket 810-0155V. Angle brackets of custom design can be manufactured on request.

Two mechanical limit switches built into each translation stage used for emergency stop at ends of travel range or to establish a reference position with accuracy of several motor steps.

Motor position can be visually determined with accuracy of one step by reading a scale engraved on dial knob fitted on motor shaft. Body and platform of 960-0050V are made of aluminum. Functional parts are made of steel.

Stage is equipped with  $10^{-6}$  Torr vacuum compatible stepper motor, all mechanical parts are lubricated with High vacuum compatible grease. Aluminum parts are not anodized. Stages are cleaned in vacuum chamber and packed before dispatch, so that it can be immediately placed in vacuum chamber after purchase without spoiling the vacuum.

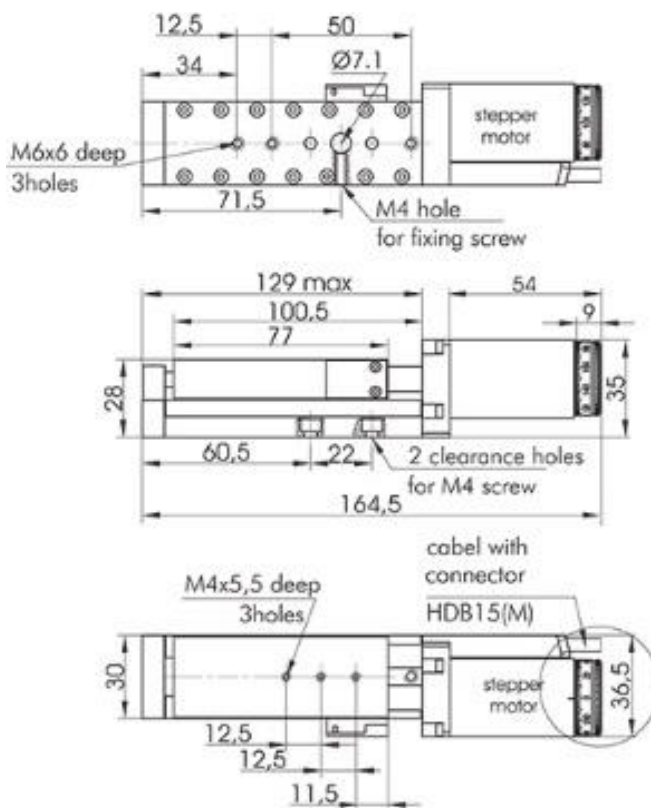
Cleaning and packing not included in price. Motorized vacuum stages are equipped with high vacuum compatible Sub-D, male, 9 pin connectors. The connectors are made of glass filled polymer with a stainless steel outer and suitable for High Vacuum ( $10^{-8}$  mbar) and temperatures up to 110°C.

**SPECIFICATIONS**

<b>Travel range</b>	50 mm
<b>Lead screw pitch</b>	0.25 mm
<b>Resolution in full step *</b>	1.25 $\mu$ m
<b>Max. speed *</b>	2.5 mm/s
<b>Load capacity</b> Horizontal Vertical	3 kg 1 kg
<b>Fleuroplastic cable</b>	integrated, 2m length

<b>Motor connector</b>	HDB15(M)
<b>Motor</b>	VSS42
<b>Weight</b>	0.55 kg
<b>Assemblies</b>	
X-Y	810-0250-01V
Z	810-0150-01V

### DRAWING OF 960-0050V



Code	Weight	Price
<b>960-0050V</b>	0.55 kg	Request