

## NARROW MOTORIZED TRANSLATION STAGES

- **Narrow (30 mm)**
- **Compact design**
- **High guide way accuracy**
- **Resolution 0.156 µm (1/8 step)**
- **X-Y-Z configurations available**

Motorized translation stage 960-0050 is a newly developed stage, which incorporates all the improvements and modifications implemented since its predecessor 960-0060-05 was launched. 960-0050 replaces older stage 960-0060-05.

It boasts 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 and now you can apply grease directly to the screw without disassembling the stage. Vertical load capacity is increased to 3 kg. Stage is spring preloaded to eliminate backlash. Design of 960-0050 ensures more stable and precise motion over full translation range.

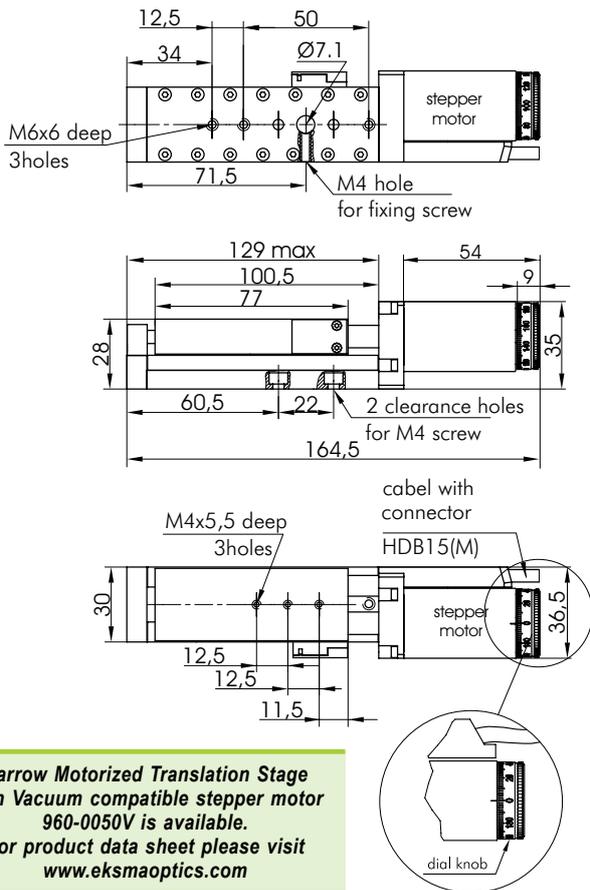
For vertical (Z axis) mounting we offer angle bracket 810-0150-01. Angle brackets of custom design can be manufactured on request.

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 (use Encoder for monitoring exact position using PC).

Body and platform of 960-0050 are made of black finished aluminum. Functional parts are made of steel.

### 960-0050 NARROW MOTORIZED TRANSLATION STAGE WITH STEPPER MOTOR



#### SPECIFICATIONS

Travel range	50 mm
Lead screw pitch	0.25 mm
Resolution in full step*	1.25 µm
Max. speed*	5 mm/s
Load capacity	
Horizontal	5 kg
Vertical	3 kg
Cable	integrated, 1.6 m length
Motor connector	HDB15(M)
Stepper motor	28
Weight	0.5 kg
Assemblies:	
X-Y	810-0250-01
Z	810-0150-01

**Narrow Motorized Translation Stage with Vacuum compatible stepper motor 960-0050V is available.**  
For product data sheet please visit [www.eksmaoptics.com](http://www.eksmaoptics.com)

Code	Price, EUR
960-0050	599

**\*Test condition:**  
• 980-0030 controllers;  
• Power supply – 36 V.

#### RECOMMENDED CONTROLLERS

• 980-0040-USB	see page 8.189
• 980-0030-RS232	see page 8.188

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