

960-0060V VACUUM COMPATIBLE MOTORIZED STAGES



Vacuum Compatible Motorized Stages are equipped with vacuum compatible stepper motor.

Stages stack in X-Y configurations directly using M6 screws. Angle Bracket 810-0160V is used to mount stages for vertical translation; it is also used for X-Y-Z configurations.

To mount stages on a flat surface you will need 820-0115V base plate.

- Compact design
- Resolution 0.31 μm (1/8 step)
- High guide way accuracy
- Lead screw pitch 0.5 mm
- X-Y-Z configurations available
- Non-vacuum version available

SPECIFICATIONS

Lead screw pitch	0.5 mm
Resolution in full step	2.5 μm
Max. speed	5 mm/s
Load capacity	
Horizontal	8 kg
Vertical	3 kg
Vacuum, Torr	10^{-6}
Motor connector	DB9(M)
Stepper motor	VSS42
Wiring scheme of the motor VSS42	bipolar
Design Voltage of the motor VSS42, V	42
Phase Current of the motor VSS42, A	1.2
Holding Torque of the motor VSS42, Nm	0.13
Detent Torque of the motor VSS42, mNm	5

Phase Resistance of the motor VSS42, Ohm	1.7
Inductance of the motor VSS42, mH	3
Steps/Revolution of the motor VSS42	200(1.8°)
Assemblies of the motor VSS42:	
X-Y	directly
Z	810-0160V
To flat surface	820-0115V
Snap-action limit switch	two end switches
Type	Pushed is "closed"

Code	Description	Weight	Price
960-0060V-06	travel range - 50 mm	1 kg	2225 €
960-0060V-08	travel range - 100 mm	1.5 kg	2323 €
960-0060V-10	travel range - 150 mm	1.5 kg	2553 €
960-0060V-12	travel range - 200 mm	1.6 kg	2991 €
820-0115V	base plate for mounting to optical tables	0.3 kg	72 €
810-0160V	angle bracket for Z axis assembly	0.45 kg	102 €