

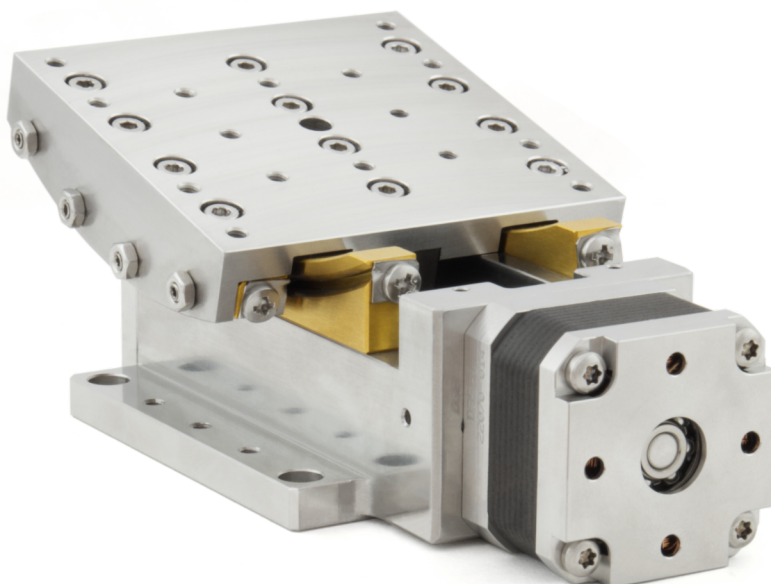
VSM17-G-070 Goniometer Stage

Modular UHV Goniometer Stage

AML ultra high vacuum compatible goniometer stage with $\pm 15^\circ$ travel, provides rotation on a transverse axis above the table.

Can be used standalone or as part of a complex motion system when combined with other VSM17 modular stages. It is possible to build a Euler goniometer with a common centre of rotation when combined with a VSM17-G-114.

The VSM17-G features rigid construction to allow for high load capacity whilst maintaining smooth motion through the full range of travel. They are manufactured with UHV compatible material and construction methods and utilise AML UHV stepper motors.



FEATURES

- $\pm 15^\circ$ travel
- 0.005° resolution in full steps
- Rotation centre to table 70 mm
- Suitable for use to 1×10^{-10} mBar
- Bakeable to 200°C
- 40 kg centred load capacity
- Features AML D35.1 stepper motor
- Can optionally be fitted with limit switches
- High torque and radiation resistant versions available
- Compatible with most VSM17 modular stages
- May be customised for specific requirements

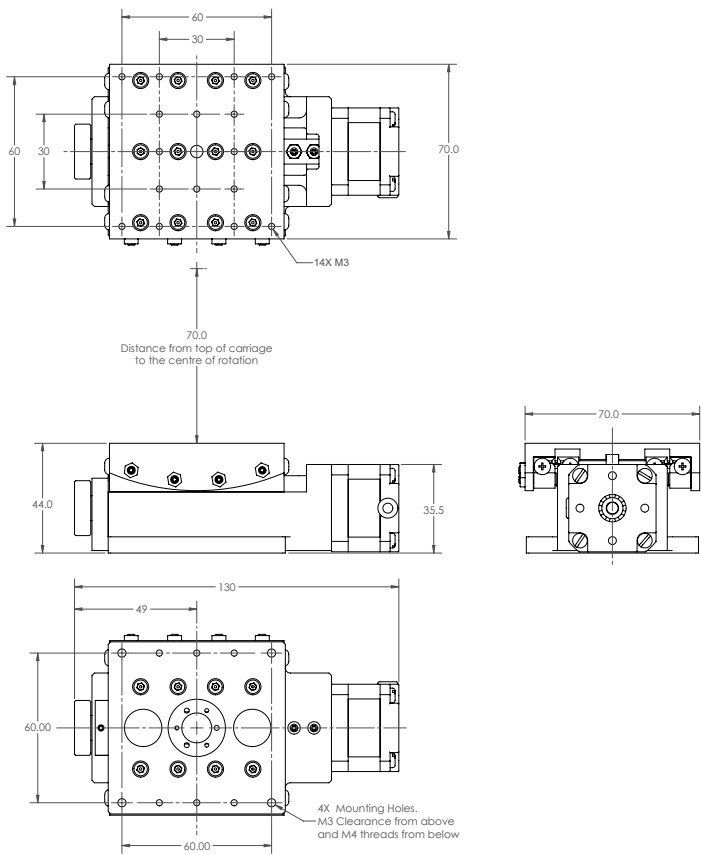
SPECIFICATIONS

Specification	VSM17-G-070
Travel	±15°
Resolution in Full Steps	0.005°
Work Distance (Rotation Centre to Table)	70 mm
Maximum Loaded Speed	25 °/s
Table Size	70 x 70 mm
Maximum Torque	5 Nm
Bi-Directional Repeatability	±110 µrad
Centred Load Capacity (Normal)	40 kg
Transversal Compliance	30 µrad/Nm
Vacuum	1 x 10 ⁻¹⁰ mBar
Maximum Temperature	200 °C
Motor	D35.1
Mass Including Motor	1.38 kg
Cable Length	1.5 m

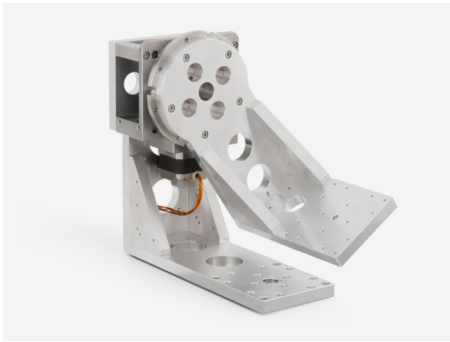
NOTES

LUBRICATION: Running surfaces are dissimilar materials or dry lubricated with molybdenum disulfide. Leadscrews are lubricated with Nyetorr® 6300 UHV grease. Dry lubrication can be specified.

DIMENSIONS



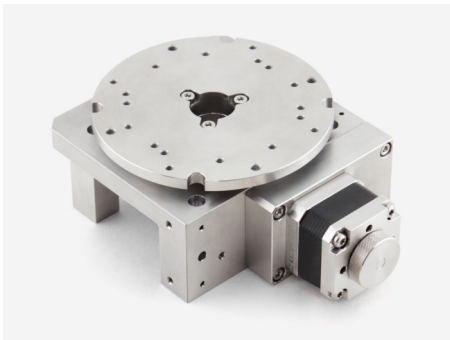
RELATED PRODUCTS



VSM17-G-114

High Performance, Modular UHV Compatible Goniometer Stage.

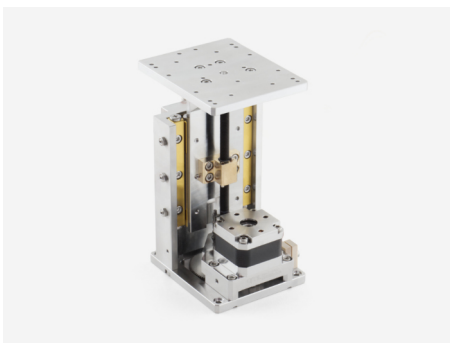
Provides a second rotation with the same pivot point. 0.005° resolution with $\pm 180^\circ$ rotation.



VSM17-R

High Performance, Modular UHV Rotation Stage.

Rotation stage suitable for use in UHV. Can support loads of up to 100 kilograms. Resolutions from 0.1° to 0.005° with 360° of continuous rotation.



VSM17-Z

High Performance, Modular UHV Stage for Z-Axis Translation.

Linear vertical translation stage suitable for use in UHV. Can support loads of up to several kilograms and travel from 50 mm. Designed specifically for Z-axis translation with its high load capacity.

ORDERING INFORMATION

Order Code	
VSM17-G-070	0.005° resolution
VSM17-G-070-LS	With 2 x limit switches
VSM17-G-070-HT	High torque (20 Nm, fitted with D42.1 motor)
VSM17-G-070-R	Radiation resistant



Arun Microelectronics Ltd.
Unit 2, Bury Mill Farm
Bury Gate
PULBOROUGH
RH20 1NN
United Kingdom

Tel: +44 (0)1903 884141
Email: sales@arunmicro.com

AML pursues a policy of continuous improvement and reserves the right to make detail changes to specifications without consultation. E and OE.