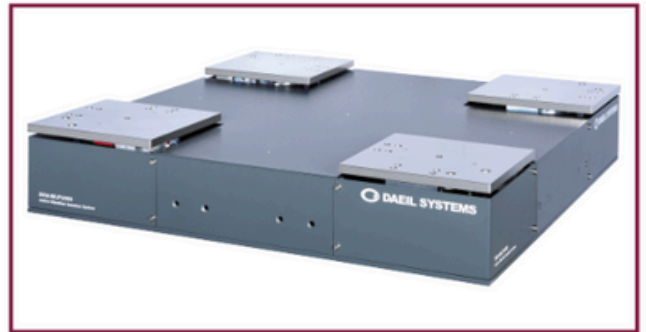


DAEIL SYSTEMS DVIA-MLP LOW-PROFILE

DESCRIPTION

The DVIA-MLP is a customized active vibration isolation system for Thermo Fisher Scientific and other SEM manufacturers. It uses a side-push installation method, avoiding a microscope lift requirement while increasing the microscope height by only a few centimeters. This design maintains ergonomics and compatibility with both OEM and aftermarket enclosures. The DVIA-MLP delivers the same outstanding performance as the MB model.



KEY FEATURES

Easy to Install

The DVIA-MLP slides directly underneath the microscope and mounts to the instrument frame inside the microscope feet. Using simple blocking and the adjustable microscope feet, the DVIA-MLP slides underneath the microscope using casters, requiring only minimal lift of the microscope itself. The result is a simpler and more cost-effective installation process.

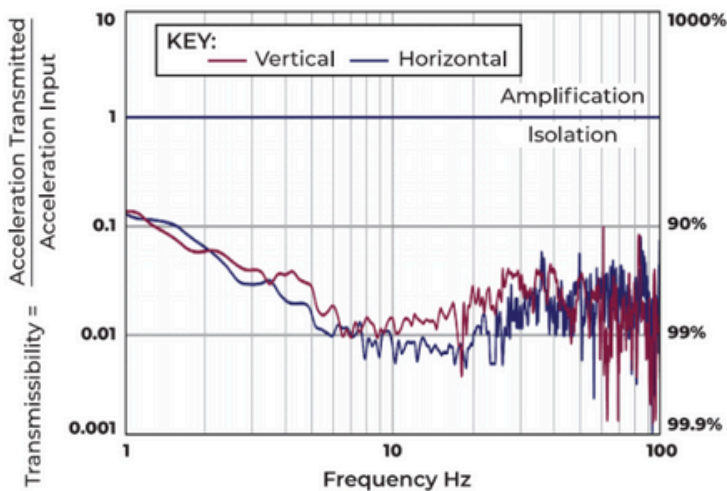
Exceptional Low & High-Frequency Active Vibration Isolation

The DVIA-MLP achieves an impressive 80 - 90% vibration isolation efficiency at 1 Hz, starting its isolation effectiveness from as low as 0.5 Hz, thanks to its state-of-the-art active vibration control algorithms.

Out-of-the-Box Feed Forward Control

Our DVIA isolation systems are equipped with advanced feedforward controls on all models. These controls, utilizing real-time ground sensor measurements, detect and preemptively cancel vibrations before they reach the isolated mass. The dynamic control adapts seamlessly to changing vibration levels and self-optimizes, ensuring consistent outstanding performance.

VIBRATION TRANSMISSIBILITY



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DAEIL SYSTEMS DVIA-MLP LOW-PROFILE

LESS SENSITIVE TO VARIATIONS IN FLOOR STIFFNESS

The DVIA-MLP series uses a pneumatic passive component and feedforward control for active isolation, making it less dependent on floor stiffness than piezoelectric systems.



CUSTOM DESIGNED VIBRATION ISOLATION SYSTEM

Compatible with the following
Thermo Fisher Scientific SEM Models:

Apreo	Prisma	Teneo
Hydra	Versa 3D	Verios 5
Quattro	Helios 5	Centrios
Scios	Nova NanoSEM 450	

The above list is not exclusive – contact us
about your specific instrument.

TECHNICAL SPECIFICATIONS

Model No.		DVIA-MLP1000
Dimensions (WxDxH)	Isolator Unit	887 x 846 x 164 mm
	Platform	Custom-Made
Maximum Load Capacity		1700 kg
Actuator		Electromagnetic Actuator
Maximum Actuator Force		Vertical: 40 N, Horizontal: 20 N
Active Isolation Range		0.5 - 200 Hz
Degrees of Freedom		6 Degrees
Vibration Isolation Performance		80 - 90% at 1 Hz
Input Voltage (V)		100 - 260V AC / 50-60 Hz
Power Consumption (W)		Maximum 110W, Below 50W in normal operation
Operating Range	Temperature (°C)	5-50 °C
	Humidity (%)	20-90%
Required Air Pressure		4-6 kg/cm ²
Settling Time		≤0.3 sec*

*0.3 sec settling time is measured after 90% reduction of input. (The settling time varies with several conditions, such as payload, force, natural frequency, etc.)



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