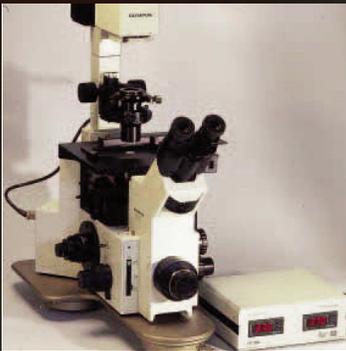




Creating the best environment
for your laboratory

Vibration Isolation Products

High performance
anti-vibration platforms
and workstations



**Electron
Microscopy
Sciences**



Vibration Isolation Products

High performance anti-vibration platforms and workstations

Creating the best environment for your laboratory

Overview

Vibrations limit the performance of sensitive instruments in numerous applications. Thus the need to remove vibrations to optimize performance has become crucial. We have spent many years developing state-of-the-art workstations and platforms, which provide the user with a truly vibration free surface on which the user can place equipment. Our products are available in a wide range of sizes and shapes to support instruments of varying weights and footprints.

Features

- 2Hz natural frequency built-in air isolators
- Active self leveling and passive pump up versions
- Highly rigid laminated construction with damping core
- Low cost, easy to install and free from maintenance
- Ideal for laboratories and clean rooms, will meet Class 10 (Class 1 available)
- Simple, compact, easy to use and clean
- Wide range of sizes, options and accessories

Confocal Laser Microscope



Theory

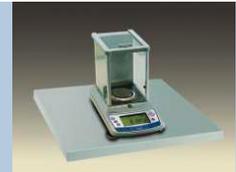
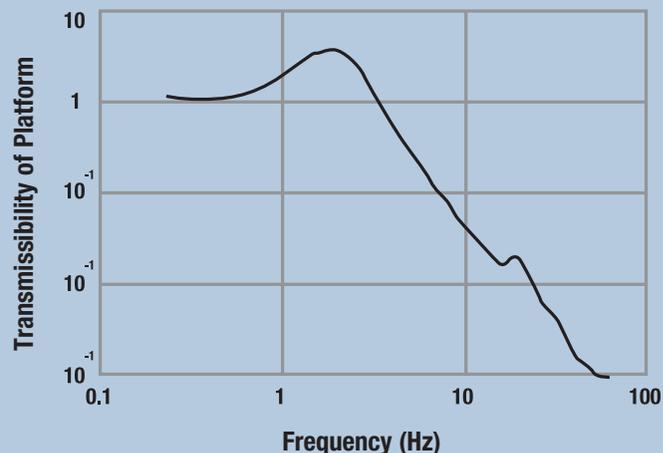
Elimination of movements from a working surface is achieved by isolating it from any external influences such as the floor and the structure itself is rigid and damps out any induced surface movements (fans etc.). The major sources of external disturbances are vertical and horizontal floor movements.

Floor vibrations arise from many sources; road traffic, trains, large machinery, lifts and building sway are among common examples. Typically building vibrations peak in the region of 7 Hz, however a metal frame building of height H has a resonance of roughly $46/H$ hertz, which means that on the fifth floor of a building you can expect horizontal and vertical displacements as low as 3 hertz. Floors almost never exhibit periodic vibrations in the 1 to 3Hz band.

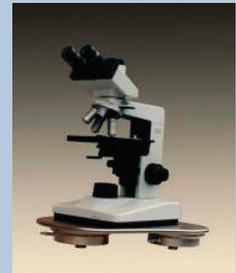
The measure of the effectiveness of an isolation system is given by its transmissibility (below). As an approximate rule isolators start to become effective at between two to three times their own natural resonant frequency. Thus to remove vibrations at 7Hz an isolator with a natural frequency of about 2Hz is required.

The performance of an isolator depends on its stiffness and the mass it is supporting. In general isolator performance improves as mass is increased and for optimum performance one should work close to the maximum load an isolation system is designed to support. As an example, it is bad practice to place a 50kg load on a table designed to support 500kg, whereas a load of 200kg or more would be suitable.

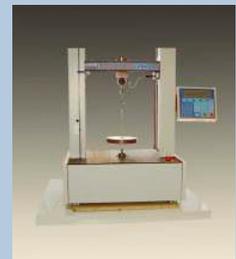
The load supported by an isolator is calculated by multiplying the air pressure inside the isolator by the area of the piston it is supporting. Thus a piston of 15cm^2 surface area will support 25kg at 2 Bar. As (pressure) x (volume) for an isolator is a constant at any given temperature, increasing the load on an isolator will cause the piston to drop until the pressure has risen sufficiently to support the load. If one wishes to return the platform to its original level, then one must introduce more air into the isolator at the new pressure.



Analytical Balance



Laboratory Microscope



Materials Tester



Semiconductor Bond Tester

Construction

Our platforms combine a highly rigid damped table with an excellent vibration isolation system in one unique package.

It has long been accepted that the best isolation is achieved using pneumatic isolation chambers, which utilize high performance rolling diaphragms. All our isolators contain such a specially designed diaphragms.

Our isolators are also connected to a damping volume via a tuned restrictor. The restrictor absorbs system energy by converting air movements into heat as it is forced through the restrictor. This removes the overshoot and oscillations, which occur in isolators without dampening chambers and highly specialized restrictors such as ours.

We use a low isolation volume to damping volume ratio, which means that the working surface appears stiff to the touch (as all large low frequency disturbances are rapidly damped away). Small higher frequency disturbances are removed by the isolator chamber, these have a resonant frequency (dependant on version and load) typically in the range 1.5 to 2Hz. and whose characteristics are given in the transmissibility curves.

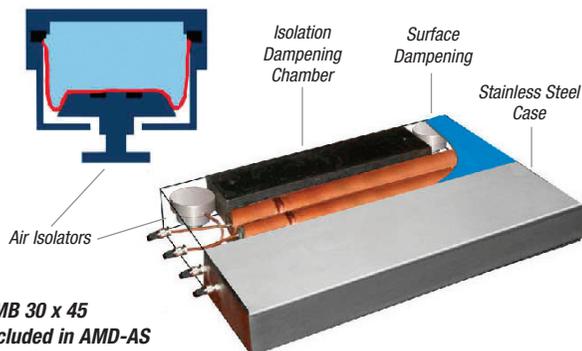
Our platforms feature a seamless steel top finished in either a grey epoxy powder coat or optionally made from dull polished stainless steel. Both finishes meet the Class 10 requirements. The stainless finish may be required in certain environments and we would be pleased to advise on this. The tops are formed by laminating a highly damping core between two steel plates using high strength aerospace grade adhesives, a technique we developed in producing our range of high performance optical tables and breadboards.

Four isolators, airflow restrictors and damping volumes are integrated into the platforms, which allow the working surface to float freely away from its base during operation. The natural frequency is typically 2Hz both vertically and horizontally and is suitable for all but the most sensitive instruments, where our low frequency option should be selected. We offer a choice of active and passive platform versions.

In active platforms, each isolator is connected to a self-levelling arm, which can be externally adjusted to set the height of the platform and level it. They should be chosen when the load on a table is expected to vary frequently. These platforms require a continuous supply of air. This can be provided by a compressor or using a gas bottle (suitable for months of normal operation and ideal for clean room uses).

Passive platforms are designed for applications where load does not vary. This includes balance tables, which are designed for light loads where the platform is weighted to give good performance.

Platforms are manufactured in one location using state-of-the-art automated machinery to guarantee high tolerances and consistency while keeping costs low. Our products are assembled by a highly skilled workforce and rigorous quality control is applied throughout the manufacturing process.



Excellence in design

Great care has been taken in the design of our products to ensure they achieve the highest levels of performance while being easy to use and to clean thoroughly. With isolation design optimized for use in microscopy and surface design optimized for easy cleaning, our tables are ideal solutions for use in general purpose microscopy to cleanrooms and Biohazard areas.

- Excellent working environment
- Comfortable ergonomic design
- 240grade silicon stainless steel surface available

A better working environment

Platforms and workstations improve the environment for microscopes with all the features necessary to make your work easier. Workstations provide a tailored working environment as well as featuring an isolation platform built into the work surface, making working with a microscope both faster and easier, leading to more reliable measurements in your laboratory. Platforms can also be used stand alone beneath microscopes to isolate them from external disturbances and speed up measurement.

Vibration control

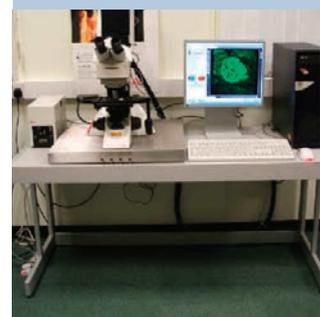
The AMF and AMP platforms offer the ultimate performance, incorporating four 2Hz damped rolling diaphragm air isolators, efficiently isolating frequencies from 6Hz and upwards. The AMS tables incorporate Sorbothane isolators, giving excellent isolation with a natural frequency of less than 1Hz. Our isolators considerably outperform both simple air cushion and rubber isolators, shortening stabilization times and speeding up measurements.

Flexible solutions

We offer a range of workstations and platforms to suit different environments and microscope performance levels. Workstations feature a platform mounted on a study steel frame with height adjustable leveling feet and guards to protect the table from accidental knocks during use.

Ergonomic design

The ergonomic workstation design minimizes user stress. With the active area option microscope platforms sit flush with the work surface and the surrounding area is useable for general work without disturbing measurements. Frames have height adjustable leveling feet, for excellent stability and user comfort with retractable castor feet, frame shelf and monitor support optional.



Platforms

To select a platform you must first decide on the size of the working surface you require, the load it needs to support and the sensitivity of the equipment to vibrations; from this you can determine the class of product you require. You then need to decide whether you will require it to be floor mounted and what type of air supply would be best suited. We would be pleased to assist you and answer any questions you may have.

AMF Series Active Air Isolation Platforms

High Performance anti-vibration platforms for microscopes



- Unique air damped rolling diaphragm sub 2Hz frequency isolator removes up to 99 percent of vibrations
- Stainless steel version meets stringent cleanliness requirements and is resistant to almost all forms of chemical attack
- Sound deadened construction eliminates unwanted surface vibrations

These platforms are self-leveling and ideal for use when loads on the platform are likely to change. They can support up to 160kg and are available in a range of standard sizes from 60x60cm up to 150x90cm. Their low 6cm working height and low weight makes them ideal for use on desks and benches.

Specifications

Platform Working Height (mm)	60
Load Capacity	100kgs
Level Adjustment (mm)	+/-15mm
Surfaces	white epoxy or stainless steel
Isolators	4off damped rolling diaphragm, active air self-levelling
Isolation Performance	
50Hz	97 percent
100Hz	99 percent
Natural Frequency	2Hz
Air Supply	5 bar (max 7) via 6mm push-fitting
Working Temperature	-20°C to 160°C

Ordering Information

Choose White Epoxy or Stainless Steel.

Cat No. White Epoxy	Cat No. Stainless	Mfr.'s Code	Description	Qty
6200	6200-SS	AMF-60x60	60 x 60 cm	each
6250	6250-SS	AMF-60x90	60 x 90 cm	each
6260	6260-SS	AMF-60x120	60 x 120 cm	each
6261	6261-SS	AMF-75x75	75 x 75 cm	each
6270	6270-SS	AMF-75x90	75 x 90 cm	each
6280	6280-SS	AMF-75x120	75 x 120 cm	each
6290	6290-SS	AMF-75x150	75 x 150 cm	each
6300	6300-SS	AMF-90x90	90 x 90 cm	each
6310	6310-SS	AMF-90x120	90 x 120 cm	each
6320	6320-SS	AMF-90x150	90 x 150 cm	each

AMP Series Passive Air Isolation Platforms

High Performance anti-vibration platforms for microscopes



- Unique air damped rolling diaphragm sub 2Hz frequency isolator removes up to 99 percent of vibrations
- Stainless steel version meets stringent cleanliness requirements and is resistant to almost all forms of chemical attack
- Sound deadened construction eliminates unwanted surface vibrations

These passive platforms are designed to be pumped-up and left alone. Simple to use, they are ideal for use with fixed loads or in applications where pressurized air or gas cannot be used. They support loads up to 160kg and sizes range from 60x60cm to 150x90cm with a 6cm working height.

Specifications

Platform Working Height (mm)	60
Load Capacity	100kgs
Level Adjustment (mm)	+/-15mm
Surfaces	white epoxy or stainless steel
Isolators	4off damped rolling diaphragm, passive air pump-up
Isolation Performance	
50Hz	97 percent
100Hz	99 percent
Natural Frequency	2Hz
Air Supply	Pumped via 4 woods cycle valves
Working Temperature	-20°C to 160°C

Ordering Information

Choose White Epoxy or Stainless Steel.

Cat No. White Epoxy	Cat No. Stainless	Mfr.'s Code	Description	Qty
6330	6330-SS	AMP-60x60	60 x 60 cm	each
6340	6340-SS	AMP-60x90	60 x 90 cm	each
6350	6350-SS	AMP-60x120	60 x 120 cm	each
6351	6351-SS	AMP-75x75	75 x 75 cm	each
6360	6360-SS	AMP-75x90	75 x 90 cm	each
6370	6370-SS	AMP-75x120	75 x 120 cm	each
6380	6380-SS	AMP-75x150	75 x 150 cm	each
6390	6390-SS	AMP-90x90	90 x 90 cm	each
6400	6400-SS	AMP-90x120	90 x 120 cm	each
6410	6410-SS	AMP-90x150	90 x 150 cm	each

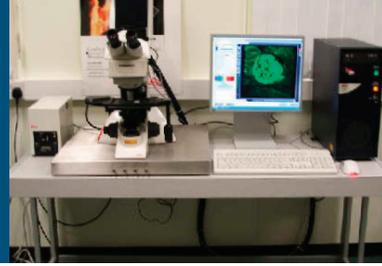
Packaging Options for AMF and AMP Series

Crates Platform and with Frame

Cat #	Description
6480	Up to and including 90 x 60cm
6490	Crates larger Platform and Frame

Modular Accessories — for more information, see page 10

Cat #	Mfr.'s Code	Description	Cat #	Mfr.'s Code	Description
6500	F01	Medium Frame for Platform	6570	F10	Flat Screen Monitor Arm
6510	F02	Frame Shelf	6580	F15	Gel Arm Rest
6520	F03	Platform Guard	6590	F27	Active Area Plate (40x50cm)
6530	F04	Platform Shelf	6600	F28	Active Isolation Area Top Plate
6540	F05	Monitor Stand (needs guard)	6610	C01	Silent Compressor
6550	F06	Retractable Castor Feet	6620	C02	Air Preparation Unit
6560	F08	Arm Rest Bar	6630	C03	Mini Compressor



AMB Series Passive Air Isolation Platforms

High Performance anti vibration platform for balances

- 30 x 45cm isolation platform for analytical balances
- Unique rolling diaphragm 2Hz natural frequency isolator design removes up to 90 percent of unwanted vibrations
- Tuned dampening mass built in
- Pharma stainless steel version meets stringent cleanliness requirements and is resistant to almost all forms of chemical attack
- Sound deadened layer construction eliminates surface vibrations



These passive platforms are weighted to 25kg and are for use with light instruments such as balances. They support loads to 120kg and are available in three sizes, 45x30cm, 40x50cm and 60x60cm. Their small footprint also makes them ideal for use when space is at a minimum. Working height is 6cm.

The AMB Series pneumatic platform incorporates four 2Hz natural frequency rolling diaphragm damped isolators. The platform surfaces are manufactured from Pharma grade stainless steel, which is seamlessly welded, ground and finished along the corners to produce a perfectly smooth surface which can be cleaned thoroughly. Tuned dampening chambers and masses are incorporated to maximize stability and performance. The table is simply inflated via adjustable valves using a standard bicycle pump.

Specifications

Platform Working Height (mm)	60
Load Capacity	100kgs
Isolator Surface	Pharma grade stainless steel
Isolator Type	Pneumatic air
Isolation Performance	
50Hz	97 percent
100Hz	99 percent
Natural Frequency	2Hz
Dimensions (LxWxH)mm's	300 x 450 x55
Working Temperature	-20°C to 120°C
Bacterial Resistance	No growth
Fungal Resistance	No growth
Heat Aging	Stable

Ordering Information

Choose White Epoxy or Stainless Steel.

Cat. No. White Epoxy	Cat. No. Stainless	Mfr.'s Code	Description	Qty.
6640-WE	6640-SS	AMB-45x30	45 x 30 cm	each
6650-WE	6650-SS	AMB-50x40	50 x 40 cm	each
6660-WE	6660-SS	AMB-60x60	60 x 60 cm	each
Cat. No.	Description			Qty.
6670	Crate for Above			each

AMS Series Sorbothane Isolation Platforms

Available for balances or instruments



- Unique Sorbothane isolator design removes up to 98 percent of unwanted vibrations
- Custom Damped Sorbothane low frequency isolators built in
- Pharma grade stainless meets stringent cleanliness requirements and is resistant to almost all forms of chemical attack
- Sound deadened layer construction eliminates surface vibrations

Sorbothane elastomer isolators have outstanding damping performance compared to isolators that use springs, rubber, or neoprene and so eliminate any rocking or wobble that is a major problem with other brands of platform. Sorbothane rapidly damps down disturbances to the microscope, such as when it is being touched during operation. It greatly improves image quality by protecting microscopes from both horizontal and vertical vibrations emanating from sources such as floors, walls and benching and caused by traffic, elevators, rotating machinery and numerous other sources.

The seamless design and pharma grade stainless steel featured in the AMS series makes these tables ideal for use laboratories and cleanrooms and in Medical and Biological environments.

Specifications

Platform Working Height (mm)	55
Load Capacity	Balance 25 kgs Instrument 200 kgs
Isolator Surface	Pharma grade stainless steel
Isolator Type	4off sorbothane (thermoset polyester based polyurethane)
Isolation Performance	
50Hz	95 percent
100Hz	98 percent
Natural Frequency	7Hz
Working Temperature	-20°C to 160°C
Bacterial Resistance	No growth
Fungal Resistance	No growth
Heat Aging	Stable

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
AMS Sorbothane Balance Platforms, Stainless Steel			
6870	AMS-30x45	30 x 45 cm	each
6870-40	AMS-40x50	40 x 50 cm	each
6870-60	AMS-60x60	60 x 60 cm	each
AMS Sorbothane Instrument Platforms, Stainless Steel			
6875-75	AMS-75x75	75 x 75 cm	each
6875-90	AMS-75x90	75 x 90 cm	each
6875	AMS-75x120	75 x 120 cm	each



AMC Series Contoured Platforms

Contoured shape ideal for use with microscopes

- Rolling diaphragm isolator removes up to 99 percent of vibrations
- Electroless nickel surfaces meet Class 1
- Easy to use and clean
- Ideal for laminar flow cabinets, biohazard areas, cleanrooms

These light and compact passive platforms have been specially designed for instruments such as microscopes. Their T-shaped profile allows users to place their arms on either side of the platform while the width at the rear is large enough to support a wide range of instruments.

The AMC Series is available in two different construction materials. Starting with the AMC-12, -12S, and 13, these platforms are made entirely from electroless Nickelplated aluminium parts and is suitable for Class 1 requirements. The top plate is 1cm thick with three damped isolators mounted to the underside.

The AMC-7 platform is made from high grade steel parts welded together for rigidity and coated with a tough epoxy powder white finish. It is resistant to most forms of biological and chemical attack and isolators are simply removed making cleaning easy. The platform top plate incorporates three elastomeric isolators which remove over 97 percent of horizontal vibrations at 50Hz and over 95 percent of vertical vibrations greatly improving instrument performance. These isolators are available in two load ranges, up to 25kgs and from 25 to 75 kgs. Isolators are simply secured by a single thumbscrew and require no adjustments for varying loads.



AMC-1



AMC-7

AMCU Series High-Load Platforms

High Performance anti-vibration platforms for instruments

- Satinless steel finish
- Integrated cushion air isolators remove 95% of vibrations
- Range of available sizes
- Optimized for Loads up to 1000 kgs

The seamless design and stainless steel featured in the AMCU series makes these platforms ideal for use in laboratories and cleanrooms.

Integrated cushion air isolators remove 95% of vibrations.

These platforms are specifically designed for high load applications and will support weights up to 1000kgs.

Typical applications include large spectrometers, high-load weighing machines, and material testing machines.

Specifications

Load Capacity	1000kgs
Level Adjustment (mm)	6mm
Isolator Surface	Pharma grade stainless steel
Isolators	4off cushion air isolators (hand pumped via Schrader valve)
Isolation Performance	
50Hz	97 percent
100Hz	98 percent
Natural Frequency	3 to 5Hz
Working Temperature	-20°C to 160°C
Bacterial Resistance	No growth
Fungal Resistance	No growth
Heat Aging	Stable
Weight	55kgs

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
6953	AMCU-75x75	75 x 75 cm	each
6954	AMCU-75x90	75 x 90 cm	each
6955	AMCU-90x90	90 x 90 cm	each

Specifications

	AMC-1	AMC-7
Dimensions LxWxH (mm)	580x380x55	565x380x45
Platform Working Height (mm)	60mm	25kgs; 75kgs with Option L
Load Capacity	100kgs	25kgs; 75kgs with Option L
Level Adjustment (mm)	5	
Isolators	3off air rolling diaphragm damped. Pumped up	3 off elastomeric
Isolation Performance		
50Hz	97%	97% horiz.; 95% vert.
100Hz	98%	99% horiz.; 98% vert.
Natural Frequency	2Hz	2Hz horizontal; 7Hz vertical
Surface Finish	Electroless Nickel	White powder epoxy
Construction	Aluminum	Steel
Bacterial Resistance	No growth	No growth
Fungal Resistance	No growth	No growth
Heat Aging	Stable	Stable
Working Temperature	-20°C to 160°C	-20°C to 160°C
Weight	5Kgs	10Kgs

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
6719	AMC-7	Microscope Platform	each
6732		L-Option for AMC-7, 75kg capacity	each
6710	AMC-13	Pump Up Isolator Plate	each
6720	AMC-12	Passive Profiled Plate	each
6730	AMC-12S	Active Profiled Plate	each

NEW

AM-DVIA Electronic Platforms

Features

- Level and vibration free worksurface
- Vibration isolation in 6 deg of freedom
- Fully automatic one switch operation



Overview

The new AM-DVIA series of active vibration isolation platforms feature high performance digitally controlled electrodynamic actuators and sensors which rapidly sense and respond to changes in position of the worktop to keep it precisely level and free from vibrations. A highly advanced electronic control system senses and responds to the smallest of changes in system parameters to remove problems caused by environment and noise, which limit the performance of sensitive scientific instruments.

Performance

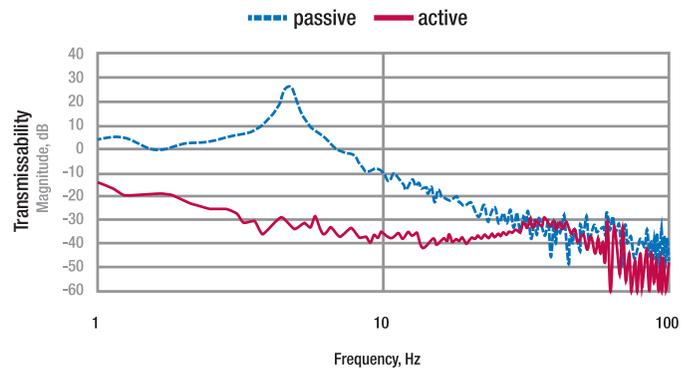
Only the on/off switch is required to operate the platforms. They are auto self -levelling and are auto-locking when moved. When switched on they maintain the working surface level and remove vibrations from as low as 0.5Hz to 100Hz Major disturbances settle within fractions of a second leading to higher rates of productivity being achievable ..

Applications

Applications are highly diverse encompassing: optical microscopy, electron microscopy (including AFM, SPM, Confocal, Raman, SEM and TEM microscopes) and associated products such as Ultramicrotomes. High resolution measurement instruments such as Interferometers, Profilometers and Micro Hardness testers and weighing instruments such as high performance analytical balances. Other applications high precision positioning systems and micromanipulation .

Technical Details

The DVIA range of platforms are very simple to use and no set up is required other than placing them on a solid table. Once switched on the onboard control system will sort out the rest. It automatically horizontally adjust the top to level it and isolates the working top plate from disturbances such as vibrations and level changes from changes in temperature and other environmental factors. Its ability to handle very low frequency disturbances means it outperforms air tables and can deal with building sway and traffic (people and vehicles). The rapid settlement time increases productivity. The autolocking feature prevents the platform being damaged if it is moved for any reason. The front display confirms the status of the vibration isolation



Specifications

Model	AMD-DVIA-40-50	AMD-DVIA-50-60	AMD-DVIA-60-70	AMD-DVIA-70-80
WxDxH (mms)	420x500x93	500x600x93	600x700x93	700x800x93
Load Capacity	90kgs	90kgs	90kgs	80kgs
Surface	Aluminium, Optional hole pattern			
Isolator Type	Electromagnetic, 6 deg of freedom			
Isolation Performance	95% at 2Hz 99% at 10Hz	95% at 2Hz 99% at 10Hz	95% at 2Hz 99% at 10Hz	97% at 2Hz 99% at 10Hz
Settling Time	Less than 0.5 secs			
Active Control Range	0.5 to 100Hz			
Working Temp Range	5°C to 50°C			
Humidity Range	20-90%			
Electrical Requirements	AC 85-264/ 50-60Hz 36 Watts			

Options & Accessories

M6x25 hole pattern worktop, 1/4-20x1in hole pattern top, Table for hood/platform, Arm rest bar for table, Table shelf, Keyboard shelf on table, Side tables, Retractable castor/feet, Monitor stands, Temperature control

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
7500	AMD-DVIA-40x50	42 x 50 cm	each
7501	AMD-DVIA-50x60	50 x 60 cm	each
7502	AMD-DVIA-60x70	60 x 70 cm	each
7503	AMD-DVIA-70x80	70 x 80 cm	each

Workstations



AMD Series Workstations

AMD-SB and AMD-ST Balance Workstations

Standard table has a white powder epoxy table top surface incorporating a AMT-30x40 granite platform featuring four sorbothane isolators. It improves balance performance and is ideal for balances up to 4 to 5 digit.



The smooth seamless table shape ensures thorough and easy cleaning removing risks such as cross contamination. The stainless steel versions feature 240 satin silicon steel with a very low Ra of 0.4 making them ideal for cleanrooms and as well as being resistant to almost all forms of biological and chemical attack. The frame is produced using tubular ERW steel which combines high rigidity with a closed profile that allows easy and thorough cleaning. Tilting leveling feet ensure it sits perfectly in contact with the floor.

Specifications

Load Capacity	100kgs
Surface Finish	Stainless Steel, White Epoxy
Isolators	4 air rolling diaphragm, Active Air
Isolation Performance	50Hz 97 percent 98Hz 99 percent
Height Adjustment Range	735–765mm
Natural Frequency	2Hz
Weight	55Kgs

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
6680	AMD-ST	Sorbothane Isolation Granite/White, 75x75	each
6690	AMD-SS	Sorbothane Isolation Stainless Top, 75x75	each
6700	AMD-SB	Air Stainless Top, 75x75	each
6758	AMD-SB	Air Stainless Top, 90x75	each
6759	AMD-SB	Air Stainless Top, 120x75	each

AMD-SS Balance Workstations

This Stainless version features an AMS-30x45 platform with four 7Hz sorbothane isolators which give an excellent 95 percent isolation at 50Hz. A unique sound deadening core soaks up surface borne vibrations and ensures our tables outperform simple granite and steel tables by up to 20dB. 240 silicon satin stainless ensures our tables meet all the requirements for use in stringent environments such as cleanrooms and biohazard areas.

Specifications

Load Capacity	100kgs
Surface Finish	Stainless Steel
Isolators	4 sorbothane, passive
Isolation Performance	50Hz 95 percent 98Hz 98 percent
Height Adjustment Range	735–765mm
Natural Frequency	7Hz
Weight	55Kgs

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
6690	AMD-SS	Sorbothane Isolation, Stainless Top, 75x75	each

AMD-AS Balance Workstations

This stainless air table features our AMB-30x45 pneumatic platform. It incorporates four low 2Hz natural frequency rolling diaphragm damped isolators and the platform and table top feature 240 ground satin stainless steel. The isolators are simply inflated via adjustable valves using a bicycle pump.

Specifications

Load Capacity	100kgs
Surface Finish	Stainless Steel
Isolators	4 air rolling diaphragms, passive pump up
Height Adjustment Range	735–765mm
Natural Frequency	2Hz
Weight	55Kgs

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
6705	AMD-AS	Air Isolation Area, Stainless Top, 75x75	each

AMD-SM and AMD-SR Microscope Workstations

- Unique Sorbothane isolator design removes up to 98 percent of unwanted vibrations
- SR Workstation have a load capacity of 200kgs, suitable for instrumentation

Specifications

	AMD-SM	AMD-SR
Height	750mm	
Load Capacity	75kgs	200kgs
Surface Finish	stainless steel	white epoxy or stainless steel
Isolators	4off sorbothane isolators	
Isolation Performance	50Hz 95 percent 100Hz 98 percent	
Natural Frequency	7Hz	
Shipping Weight	60 kgs	



Ordering Information

AMD-SM Microscope Workstation			
Cat #	Mfr.'s Code	Description	Qty
7506	AMD-SM-75x75	75x75	each
7507	AMD-SM-90x75	90x75	each
7508	AMD-SM-120x75	120x75	each

AMD-SR Instrument Workstation				
Cat No. White Epoxy	Cat No. Stainless	Mfr.'s Code	Description	Qty
7509	7522	AMD-SR-75x75	75x75	each
7510	7523	AMD-SR-90x75	90x75	each
7511	7524	AMD-SR-120x75	120x75	each

AMD Series Workstations (cont.)

AMD-FH, AMD-MF, AMD-MA, and AMD-MP Microscope Workstations

These isolation tables support most of the larger microscopes and their support equipment. The air isolation platform effectively removes most vibrations. The rigid frame has levelling feet which ensure the table is in excellent contact with the floor. The damped rolling diaphragm isolators have a low natural frequency of 2Hz which effectively isolates out vibrations above 6Hz, well below the frequencies at which typical building vibrations begin to occur. Options include: monitor arms, castors, frame and platform shelves and silent air compressors.



AMD-FH

- Ferromagnetic stainless worktop with M6x26 holes on 25mm grid
- Full Active table with self-levelling automatically adjusts to load changes
- Includes platform guards



AMD-MF, AMD-MA

- Full width table guards protect the table against accidental knocks
- Stainless steel meets stringent cleanliness requirements and is resistant to almost all forms of chemical attack
- AMD-MA features an active 35x55cm isolation area built into the worktop



AMD-MP

- Simply pumped up via cycle valves on a front panel
- Full width table guards protect the table against accidental knocks

Specifications

Load Capacity	100kgs
Level Adjustment	+/-15mm
Isolators	4off damped rolling diaphragm active air isolators
Isolation Performance	50Hz 97 percent 100Hz 99 percent
Natural Frequency	2Hz
Working Temperature	-20°C to 160°C
Shipping Weight	70 kgs

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
AMD-FH Microscope Workstation			
7512	AMD-FH-75x75	75 x 75 cm	each
7513	AMD-FH-90x75	90 x 75 cm	each
7514	AMD-FH-120x75	120 x 75 cm	each
AMD-MF Microscope Workstation			
7515	AMD-MF-78x78	78 x 78 cm	each
7516	AMD-MF-93x78	93 x 78 cm	each
7517	AMD-MF-123x78	123 x 78 cm	each
7518	AMD-MF-153x78	153 x 78 cm	each
7519	AMD-MF-93x93	93 x 93 cm	each
7520	AMD-MF-123x93	123 x 93 cm	each
7521	AMD-MF-153x93	153 x 93 cm	each
AMD-MA Microscope Workstation with Isolation Area			
7711	AMD-MA-90x75	90 x 75 cm	each
7712	AMD-MA-120x75	120 x 75 cm	each
AMD-MP Microscope Workstation			
7713	AMD-MP-75x75	75 x 75 cm	each
7714	AMD-MP-90x75	90 x 75 cm	each
7720	AMD-MP-120x75	120 x 75 cm	each

High Load Workstations: AMH Series



- Active isolation table for heavy instruments up to 500kgs standard or 1500kgs for Hi Spec versions
- 1Hz high performance rolling diaphragm damped air isolator design removes 98 percent of vibrations at 15Hz
- Double top skin and damped top plate construction eliminates surface vibrations
- Stainless steel surface meets stringent cleanliness requirements and is resistant to almost all forms of chemical attack
- High rigidity worktop with aluminium honeycomb core ensures highest stiffness to weight

These workstations are designed for heavy instruments such as electron microscopes, cryostats, hardness testers, profilers, interferometers, spectrometers among many others. They comprise a highly rigid platform supported on a very strong frame with built in ultra low frequency 1Hz active damped self-levelling air isolators. The platform features a seamless construction in stainless steel, which makes it both highly durable and easy to clean. It is suitable for biohazard areas and clean rooms.

Specifications

Load Capacity	600kgs (1500kgs Hi-Spec)
Level Adjustment	10 mms
Isolators	4off air rolling diaphragm damped. Self levelling
Isolation Performance	6Hz 90 percent/95 percent high load 15Hz 98 percent/99 percent high load
Natural Frequency	1.5Hz (1Hz)
Surface Finish	Powder white/ black
Worktop Construction	5mm stainless top skins on honeycomb core
Frame	120x120 steel box epoxy powder white
Air Supply	5 bar min. 10 bar max via 6mm airline
Shipping Weight	160Kgs

Ordering Information

Cat #	Mfr.'s Code	Description	Qty
7560	AMH-75x75	75x75	each
7561	AMH-90x75	90x75	each
7562	AMH-120x75	120x75	each
6740	AMH-90x90	90x90	each
6750	AMH-120x90	120x90	each
6760	AMH-150x90	150x90	each
7715	AMH-120x120	120x120	each
7716	AMH-180x120	180x120	each
6770	AMH-240x120	240x120	each

1Hz Isolation Option (load over 200kg)		
7719		each

Hi-Spec 1Hz Air Isolation Legs		
6780	Hi-Spec 1195	Non-Magnetic Legs (3pcs)
6790	Hi-Spec	Isolation Legs (4 pcs)
7736		Active Self-Leveling Option

Components — for more information, see page 10			
6800	AM2	Concentric Isolator	each
6810	AM3	OEM Isolators	each
6820	AM5	Dampening Volume	each
6830	AM7	Hi Load Isolator	each
6840	AM9	Leveling Arm	each
6850	AM12	Isolator	each
6860	AM12S	Leveling Isolator	each

Options, Accessories, & Components

Hi-Load Components: *See ordering information on page 9.*

Concentric Airmount AM2: This low profile airmount has a working height of only 40mm. Our unique design incorporates an isolation chamber surrounded by a concentric damping chamber. The chambers are connected by a tuned airflow restrictor which gives optimum damping with no overshoot while isolating out floor vibrations.



Concentric Airmount AM3: This low cost isolator has a very small footprint and is designed for incorporation into instruments. It is used in conjunction with a damping chamber, which can be placed at some distance from the isolator, as required by the user.



High Load Isolator AM7: These high load isolators are capable of supporting loads up to 400kg and have a very low natural frequency as low as 1.1Hz. They are ideal as mounts for heavy sensitive instruments such as electron microscopes



Leveling Arm AM9: High load isolators are capable of supporting loads up to 400kg and have a very low natural frequency as low as 1.1Hz. They are ideal as mounts for heavy sensitive instruments such as electron microscopes.

AMT Series Side Tables

These laboratory tables feature a rigid frame with levelling feet which ensure the table is in excellent contact with the floor. Available with White Epoxy, Stainless Steel or Trespa top. Options include: monitor arms and castor feet.



Specifications

Working Height	750mm / 900mm optional
Load Capacity	200kgs
Table Feet	4 x floor levelling feet with nut lock
Shipping Weight	40kg

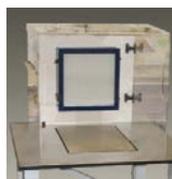
Cat No. White Epoxy	Cat No. Stainless	Cat No. Trespa	Mfr.'s Code	Description	Qty
6900	8900	9900	AMT-75x75	75x75	each
6910	8910	9910	AMT-90x75	90x75	each
6920	8920	9920	AMT-120x75	120x75	each
6930	—	—	AMT-150x75	150x75	each
6940	—	—	AMT-90x90	90x90	each
6950	—	—	AMT-120x90	120x90	each
6960	—	—	AMT-150x90	150x90	each



ALSC Acoustic Hoods

Remove the airborne vibrations that limit the performance of sensitive instruments. A unique construction using interlocking acrylic panels gives complete visibility during work operations. Front panel with portholes for hand access, lifts off to allow easy cleaning of acrylic panels and stainless worktops

Cat No.	Mfr.'s Code	Description	Qty
9962	ALSC-75x75	Acoustic Hood, 75x75	each
9963	ALSC-90x75	Acoustic Hood, 90x75	each
9964	ALSC-120x75	Acoustic Hood, 120x75	each



ALSC Safety Cabinets

Provide a safe environment for working with hazardous substances. A variable speed fan draws air through a HEPA filter, safely removing hazardous materials. Smooth acrylic and stainless surfaces can be thoroughly cleaned. The hinged hood tilts back to allow cleaning of the stainless base and the sides of the hood.

Cat No.	Mfr.'s Code	Description	Qty
9965	ALSC-1	Class 1 Safety Cabinet	each
9966	ALSC-2	Safety Cabinet AMS-30x45	each
9967	ALSC-3	Safety Cabinet AMB-30x45	each
9968		HEPA Replacement Filter	each

Modular Accessories

Frame: Frames bolt directly to the platforms and are feature a hard grey epoxy powder finish. They are supplied with four leveling feet, giving 3cm of adjustment to ensure the frames stability on the most uneven floors. Frame height 71cm, going to a working height of 78cm.



Frame Shelf: Made from 2cm laminated board and are suitable for supporting equipment such as computers

Platform Guard: The platform guard is a sturdy rail (with side rail option) that fully surrounds the platform and protects it against accidental knocks, which would otherwise disturb instruments on the platform



Platform Shelf: A 30cm wide shelf, which sits on the guard rail over the platform and is quick and easy to remove and replace.



Retractable Castors: These castors incorporate a foot, which can be raised and lowered using a thumbwheel, allowing the workstation to be wheeled around and then securely mounted to the floor in a new location.



Monitor Stand: Supports monitors weighing up to 30kg. It features 360 degree rotation of the arm as well as height adjustment. It mounts to the platform guard.



Flat Screen Monitor Arm: The LCD monitor post bolts to the back guard at position of either the right or left support bar. It has an adjustable multi directional arm that allows the user to place the screen at the height and position most comfortable for use. It will support most standard monitor brackets. They also bolt directly to the AMT table tops (version shown)



Keyboard Shelf: Attaches to the base of the platform and is pulled out as required. It measures 50x35cm (WxD) and will accommodate most keyboards



Platform Guard with **Arm Rest Bar** and **Gel Rest** on AMF-120x75 table

Silent Compressor: These compact and oil free air compressors are virtually silent (30dB/A) versions and suitable for running several platforms.



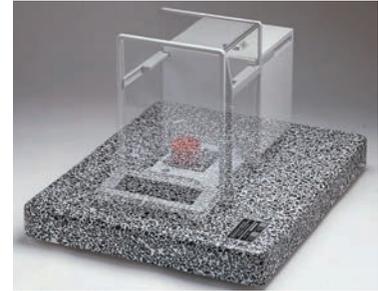
Air Preparation Unit: An air preparation unit should be used if compressed air is used which may be damp or contain small particles. The unit will ensure the air supply is properly cleaned and dry before entering the platforms.

Mfr.'s				Mfr.'s			
Cat No.	Code	Description	Qty.	Cat No.	Code	Description	Qty.
6500	F01	Medium Frame for Platform	each	6581-KS	F17	Keyboard Shelf	each
6510	F02	Frame Shelf	each	6581-FG	F18	L-AMSM Front Guard	each
6520	F03	Platform Guard	each	6581-TD	F19	Table Drawer	each
6530	F04	Platform Shelf	each	6590	F27	Active Area Plate (40x50cm)	each
6540	F05	Monitor Stand (needs guard)	each	6600	F28	Active Isolation Area Top Plate	each
6550	F06	Retractable Castor Feet	each	6610	C01	Silent Compressor	each
6560	F08	Arm Rest Bar	each	6620	C02	Air Preparation Unit	each
6570	F10	Flat Screen Monitor Arm	each	6630	C03	Mini Compressor	each
6580	F15	Gel Arm Rest	each				

Vibration Damping Mounts – Vibrasorb®

- Isolate sensitive analytical balances and other instruments from disturbing vibrations.
- Economical space saving alternate to full size balance tables.
- Polishes surface resists scratches and chemical attack.
- Molded from dense black & white terrazzo.
- Platform 64mm (2½") thick.
- 4 Vibro-Absorber™ cushions and neoprene feet.
- Supports up to 16 kg (35 lbs).
- Overall height 76mm (3").

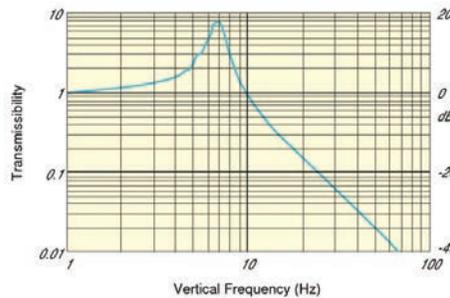
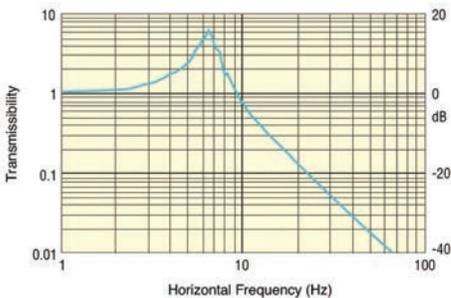
Cat. No.	Description	Qty.
67120-01	Vibrasorb® 45 x 56cm (18 x 22")	each
67120-02	Vibrasorb® 35 x 35cm (13¾ x 13¾)	each



Vibration Isolation Platform – VIP Series 320

VIP Series 320 isolation technology is superior to air technology. First, these vibration isolation platforms are passive, mechanical and maintenance free. There are no air hoses or supporting hardware required. Second, Vistek bearings isolate effectively for the horizontal and vertical vibration components. The superior performance of the Vistek bearings in all six degrees of freedom makes this isolation platform the best choice for eliminating unwanted vibrations.

Virtually any type of scientific instrument may be positioned on the Series 320 Vibration Isolation Platform. Units such as microscopes, hardness testers, measuring devices, digital imaging systems, AFMs, and Analytical balances are all applications for a bench top or tabletop platform. Standard sizes are 12" x 18", 18" x 24", and 24" x 30", for general use. Custom shapes, sizes and colors are available on request. Transmissibility Curve for the VIP Series 320 1/6th Hertz Vibration Isolation Bearing.



Technical information:

Natural Frequency
Horizontal: 0.3 Hz
Vertical: Varies with payload

Payload Range Spectrum

Min	Middle	Max
3%	3%	2%

Material

Bearing: Nickel-plated alloy steel with clear anodized aluminum
Plate: Black anodized aluminum

Dimensions, in. (mm)

Payload Range, lb (kg)

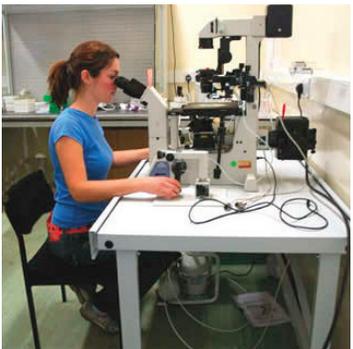
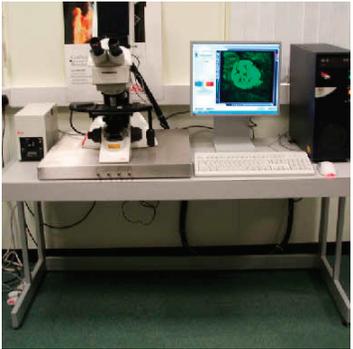
Cat. No.	Dimensions, in. (mm)				Payload Range, lb (kg)		Shipping Weight	Qty.
	X	X1	Y	Y1	Min	Max		
67120-12	12 (305)	19 (483)	18 (457)	21.5 (546)	10 (4.5)	35 (15.9)	24lb (11kg)	each
67121-12	12 (305)	19 (483)	18 (457)	21.5 (546)	15 (6.8)	55 (24.9)	24lb (11kg)	each
67122-12	12 (305)	19 (483)	18 (457)	21.5 (546)	55 (24.9)	90 (40.8)	24lb (11kg)	each
67123-12	12 (305)	19 (483)	18 (457)	21.5 (546)	135 (59.9)	210 (95.3)	24lb (11kg)	each
67120-18	18 (457)	25 (635)	24 (610)	27.5 (698)	20 (9)	40 (18)	24lb (15kg)	each
67121-18	18 (457)	25 (635)	24 (610)	27.5 (698)	30 (13.6)	70 (31.8)	24lb (15kg)	each
67122-18	18 (457)	25 (635)	24 (610)	27.5 (698)	35 (16)	75 (34)	24lb (15kg)	each
67123-18	18 (457)	25 (635)	24 (610)	27.5 (698)	50 (22.7)	105 (47.6)	24lb (15kg)	each
67124-18	18 (457)	25 (635)	24 (610)	27.5 (698)	70 (31.8)	140 (63.5)	24lb (15kg)	each
67125-18	18 (457)	25 (635)	24 (610)	27.5 (698)	95 (43.1)	180 (81.6)	24lb (15kg)	each
67127-18	18 (457)	25 (635)	24 (610)	27.5 (698)	150 (68)	350 (158.8)	24lb (15kg)	each
67120-24	24 (610)	31 (787)	30 (762)	33.5 (851)	20 (9.1)	75 (34)	60lb (27kg)	each
67122-24	24 (610)	31 (787)	30 (762)	33.5 (851)	40 (18.1)	110 (49.9)	60lb (27kg)	each
67123-24	24 (610)	31 (787)	30 (762)	33.5 (851)	65 (29.5)	120 (54.4)	60lb (27kg)	each
67125-24	24 (610)	31 (787)	30 (762)	33.5 (851)	140 (63.5)	320 (145.1)	60lb (27kg)	each
67127-24	24 (610)	31 (787)	30 (762)	33.5 (851)	275 (124.7)	400 (181.4)	60lb (27kg)	each

The Richter Anti-Vibration Pad

- Cost Effective – Inexpensively dampens vibrations from lab equipment.
- Non-Slip – Creates a stable surface that will keep equipment in place
- Versatile – Fits a variety of bench-top vortexes, shakers, rockers and microscopes
- Portable – Small, lightweight design makes transportation easy.
- Configurable – Pads can be stacked for heavier units or laid side-by-side for larger equipment.

Cat. No.	Description	Qty.
67118-10	Richter Anti-Vibration Pad, 7" x 8.5"	2/pk.
67118-20	Richter Anti-Vibration Pad, 8.5" x 11"	2/pk.
67118-30	Richter Anti-Vibration Pad Combo Pack	2/pk.





Electron Microscopy Sciences



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