

AM Series Anti-vibration Platforms and Workstations



- **2Hz Self Levelling or Pump up Anti-Vibration Platform**
- **Integral Design**
- **Low Cost**
- **Available in range of sizes**

Typical Applications:

Atomic Force Microscopes
Confocal Microscopes
Cell Injection systems
Semiconductor Bond testing
Microscopy in Bioscience

For full list contact our sales office

Vibration Free Workstations and Platforms

Vibrations cause problems in using many different types of equipment in numerous and diverse areas of technology. The need to remove vibrations to optimise performance is crucial. Our AM series of workstations and platforms gives the user a vibration free surface on which equipment can be placed. Workstations and platforms are available in a range of sizes to suit most applications, can support loads of up to 200kg and are supported with a wide range of accessories.

SPEIRS ROBERTSON Ltd
Oakley Road , Bedford MK43 8HY
Tel 01234 823410 Fax 01234 825819
Email sales@speirsrobertson.co.uk

The AM workstation consists of the AM anti-vibration platform and a frame which screws to the base of the platform. The AM platform is only 50mm deep and is supplied with rubber feet for use on existing work tops. It incorporates four unique pneumatic rolling diaphragm isolators with damping volumes (patent pending) giving high performance isolation and having an ultra low natural frequency of 2Hz vertically and horizontally. This frequency is critical as vibrations in buildings caused by such things as lifts, traffic, machinery and other sources of disturbance typically becoming problematic from 7Hz upwards, thus in order to achieve effective isolation, the natural frequency of the isolator needs to be several times lower than 7Hz.

Pump up versions are inflated using a standard bicycle pump
In the self levelling version each isolator incorporates an active self levelling unit. Operational height is adjustable by up to 6mm to an accuracy of 0.25mm . Air supply can be by airline (only 5 bar required for 200kg) , gas bottle or silent compressor . The platforms feature a seamless top tray which floats free from the base of the platform. This top surface is bonded inside to a dampening honeycomb ,giving great rigidity to the structure.

The frame which bolts to the AM anti-vibration platform to make up the AM workstation is available as standard in epoxy coated steel and optionally in stainless steel . The frame is supplied with four adjustable levelling feet and optionally with castor/levelling feet to allow the workstation to be easily moved around. Arm rests are available which bolt directly to the platform base and can be adjusted in height by the user. Both the workstations and the platforms are available in a range of finishes.

For further information please contact our sales office directly .

OPTIONS AND ACCESSORIES

We provide a wide range of options to compliment our platforms and frames ,these include:

Ferromagnetic Work surfaces

We can supply platforms with a ferromagnetic steel surface which allows magnetic clamps to be used to both securely fix and easily position components .

Mounting Holes

Ferromagnetic steel top with a standard pattern of mounting holes on a choice of M6 on 25mm centres or 1/4-20UNC on 1 inch centres.

Non-Magnetic

Platforms are available in aluminium, with a choice of either epoxy polyester or natural finishes.

Class 10 and 100 Clean room

Our standard epoxy polyester finish is suitable for both these categories of clean room. The white laminate top is preferable in some laboratory applications.

Class1 Clean room

We can supply platforms and frames in 316 dull polished stainless steel suitable for Class 1.

Arm rests

Proper arm support is essential for personnel working long hours at a workstation or platform. We offer a pair of ergonomically designed articulating arms which feature contoured arm pads. These attach the guard rail support bar and can be fully adjusted in both horizontal and vertical directions to suit individual users and to minimise the risk of RSI.

Platform guard

The platform guard is a sturdy rail that fully surrounds the platform. It is supported by two cross rails on which the platform rests. It can be used with on both platforms and workstations.

Sliding shelves

A choice of 230 or 300mm wide shelves which sit on the guard rail and are quick and easy to replace and remove. They are suitable for placing light loads next to equipment on the anti-vibration platform, such as mouse pad , notebooks .

Frame shelf

Our standard frame shelf provides a 300mm space below the platform base for storing equipment or materials and is the same width and depth as the frame. It features a white laminate surface and is supported by metal rails on front and back which bolt to the frame.

Monitor support

This padded platform will support monitors up to kg. It features 360 degree rotation of arm and platform as well as vertical height adjustment. The Keyboard shelf supports the keyboard . It attaches to the guard rail support bar

Retractable castors

These castors incorporate a foot which can be raised and lowered using a thumb wheel on the castor. This allows a workstation to be wheeled around and then securely placed on the floor and levelled using the feet.

SPECIFICATION

Platform

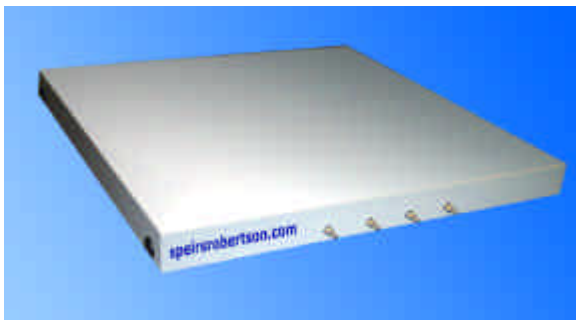
Sizes	From 300 x 300 to 900 x 1500mm
Top Thickness	50mm
Net Load Capacity	200kg (50kg/isolator)
Isolator Vertical Travel	9mm
Working Surface	Grey Epoxy Finish Optional: Ferromagnetic Stainless , Aluminium Non-conductive White Laminate , DP Stainless Stainless with 25mm grid of M6 threads
Core	Composite Honeycomb
Natural Resonant Frequency	2Hz Horizontal and Vertical
Air Pressure Required	5 to 7bar
Air Input	
Self levelling	6mm push in connector or 1/8 BSP (please specify)
Pump up	standard bicycle type (woods) valve

Frame

Height	800mm (to top of platform) as standard
Levelling feet	Nylon pad as standard, Optional: Stainless or Combo castor/foot
Material	Grey Epoxy Coated Steel : Optional Stainless steel

Platform and Frame Accessories

Platform Guard	Fits around platform
Sliding Shelf	Fits onto guard rails (requires platform guard) (requires Platform guard)
Articulating Arm Rests	Fits onto Frame (must be ordered with frame) (requires Platform guard)
Frame Shelf	
Monitor Support	
Retractable Castors	
Silent Compressor	240/220V Input , 5.5bar output



Pump Up Platform



Platform with Guard , Arm Rests and Shelves

OPTIONS AND ACCESSORIES

Platform

- AMP– Self Levelling type
- AMPT– Static (Pump up) type

Sizes available mm

- 600 x 600, 600 x 900, 600 x 1200
- 750 x 900, 750 x 1200, 750 x 1500
- 900 x 900, 900 x 1200, 900 x 1500

To specify platform add platform type to its size
e.g. AMP-750 x 900 is
Self Levelling platform size 750 x 900 mm

Options (add on to end of ordering code)

- Opt 02 Ferromagnetic top surface
- Opt 03 grid of 1/4-20 threads on 1" centres
- Opt 05 grid of M6 threads on 25mm spacings
- Opt 07 Aluminium top surface
- Opt 08 Laminate top surface
- Opt 09 Class 1 DP stainless top surface
- Opt 10 Articulated arm rests (requires Opt 15)
- Opt 11 Sliding shelf 230 mm(requires Opt 15)
- Opt 12 Sliding shelf 300mm (requires Opt 15)
- Opt 15 Platform Guard
- Opt 20 Monitor support

Frame

AMF Standard Frame for platform (if ordered separately from table specify table size)

Options

- F01 Class 1 stainless frame
- F02 Castor feet
- F10 Frame shelf

C01 Silent Air compressor

Example

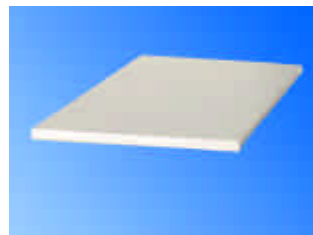
AMP– 750 x 900 Opt 07 Opt 15 Opt 11

AMF Opt F02

This is a 750 x 900 mm Self levelling anti vibration platform with Aluminium top surface , a platform guard and a 230mm sliding shelf along with a Frame with castor feet.



Articulating Arm Rest



Sliding shelf



Platform Guard



Platform and frame



Silent Compressor

USA Sales Office
Speirs Robertson Corp
Houston , Texas

Toll Free 1-800 747 4596

European Sales Office:
Speirs Robertson Ltd
Oakley Road , Bromham , Bedford MK43 8HY
Tel 01234 823410 Fax 01234 825819
Email sales@speirsrobertson.co.uk