

//SPEIRS ROBERTSON//

AM Series Airmounts

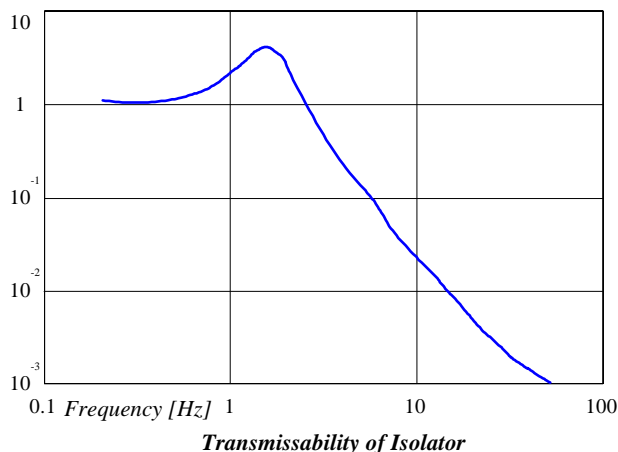
- **Highly efficient isolation of unwanted horizontal and vertical vibrations**
- **Sub 2 Hz natural frequency from rolling diaphragm airtspring.**
- **Ultra Thin ; 35mm.**
- **Simple, compact, easy to use and clean . Low cost**
- **Ideal for microscopes, balances, surface analysers and optical instruments**



THE NEED FOR ISOLATION

As the advances in technology demand the ability to make increasingly smaller measurements, the isolation of sensitive equipment from even the smallest disturbances has become essential. Our new AM Series of compact anti-vibration platforms has been specifically designed using state-of-the-art technology to remove these unwanted vibrations allowing microscopes to work to the limits of their capabilities.

The major source of these disturbances are vertical and horizontal floor movement and airborne vibrations. The latter are usually much less problematic and can be screened out. The former arise from many sources; road traffic, trains, lifts, machinery etc. and are much more difficult to remove , as frequencies as low as 3Hz can be expected.



CRITICAL DAMPING

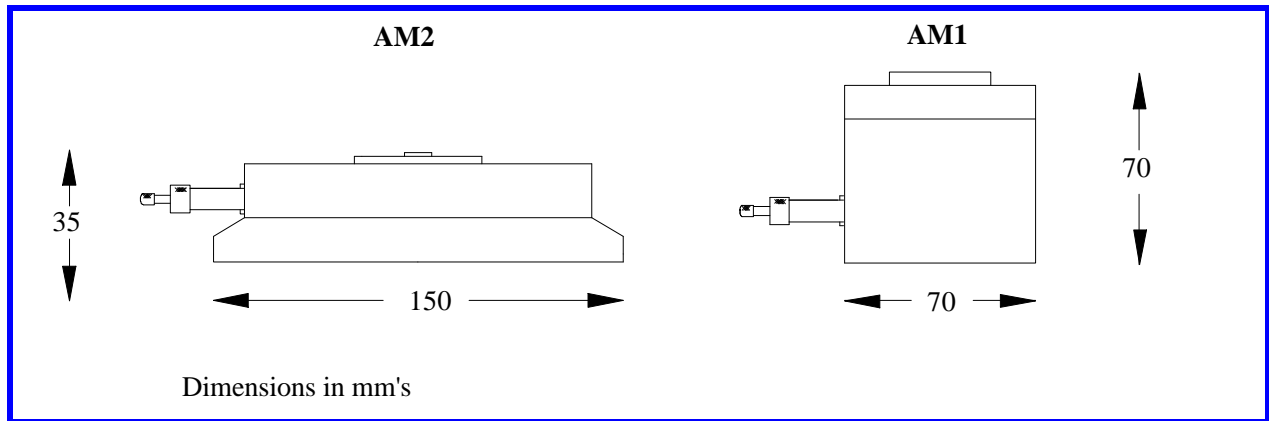
Our isolators also feature optimum damping. This means that although the top plate is softly suspended to the touch, essential for good isolation, large movements are rapidly damped away without overshoot. In our unique design (patent pending) a separate concentric integral damping chamber is connected via a pinhole to the smaller isolation chamber. Friction converts air oscillation energy into heat as it is forced through the pinhole, damping the system- a technique developed in much more expensive systems.

LOW FREQUENCY ISOLATION

It has long been accepted that the best isolation is achieved using pneumatic rolling diaphragm air isolators where the natural frequencies below 2Hz can be achieved , which means disturbances as low as 3Hz are isolated away.

Such systems have previously been both bulky and costly, however recent advances have enabled us to offer you the benefits of such sophisticated systems at a fraction of both size and cost.

Our AM Series of airmount incorporate pneumatic rolling diaphragm isolators which float loads away from disturbances. They are simple to inflate using a bicycle hand pump ;varying the pressure allows different weights to be isolated..



AIRMOUNT PROFILES & CAPACITIES

We offer a choice of airmount profiles to suit different requirements. The model AM1 has a small footprint, while still being only 70mm high allowing it to be incorporated into many equipment designs; whereas the model AM2 has a very low, 35mm, profile but a larger footprint making it ideal for placing it under existing equipment without affecting the working height. Both models support weights up to 50kgs which is more than ample for most applications (four mount supporting 200kgs).

ERGONOMICS

We put a lot of effort into ensuring the quality and appearance of our products, that they are both aesthetic to the eye and ergonomic. High quality aluminum alloy is used throughout to ensure low weight and high strength.

LABORATORY ENVIROMENTS

Laboratory environments demand careful choices of materials. Our platforms are suitable for biological and other laboratory work. All surfaces are easy to clean and resistant to contamination. They come as standard in a nickel finish but are also available with laboratory grade electroless nickel plating. They can be water and steam cleaned if required.

CLEAN ROOMS

These platforms are ideal for clean room use, with all components carefully selected to meet the most stringent requirements.

OPTIONS

We offer a choice of air connector. The standard fitment is a bicycle type valves; options include car (Schrader) valve and push in airline connectors. We are pleased to supply our customers with alternative fitting for use in OEM designs. Top fixing hole is either M6, 1/4-20 UNC or spigot. Please specify on ordering. The AM1 and AM2 come as standard with a zinc finish and are available as an option with a high quality electroless nickel finish.

OTHER PRODUCTS

We manufacture a large range of laboratory workstations, optical tables and vibration isolation systems as well as custom tables including vacuum tables, print tables, motorised systems and other specialist product, many made to customer specifications.

ORDERING

To place an order or for further technical assistance please contact us on the numbers listed below.

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