

//SPEIRS ROBERTSON//

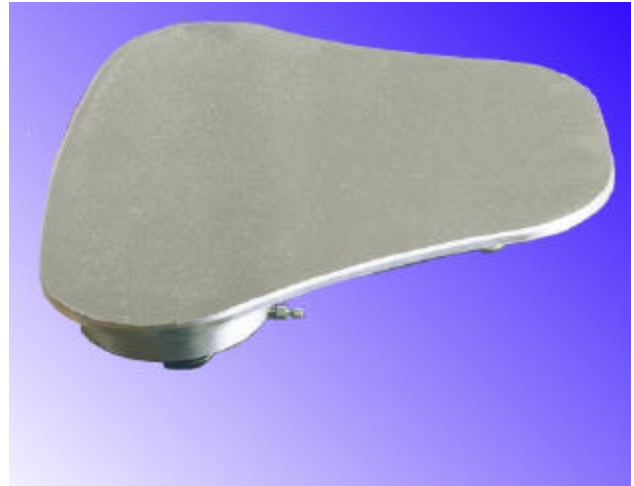
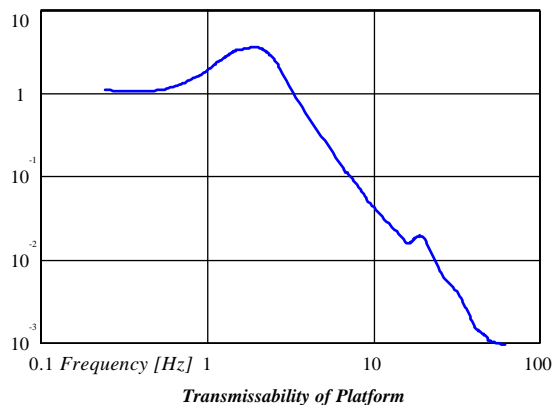
2000 Series IsoPlatform

- **Highly efficient isolation of unwanted horizontal and vertical vibrations**
- **Ideal for microscopes, balances, surface analysers and optical instruments.**
- **Suitable for cleanrooms, hospital and biological laboratories.**
- **Simple, compact, easy to use and clean . Low cost**
- **Low profile; 50mm (2 inches).**

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 2000 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

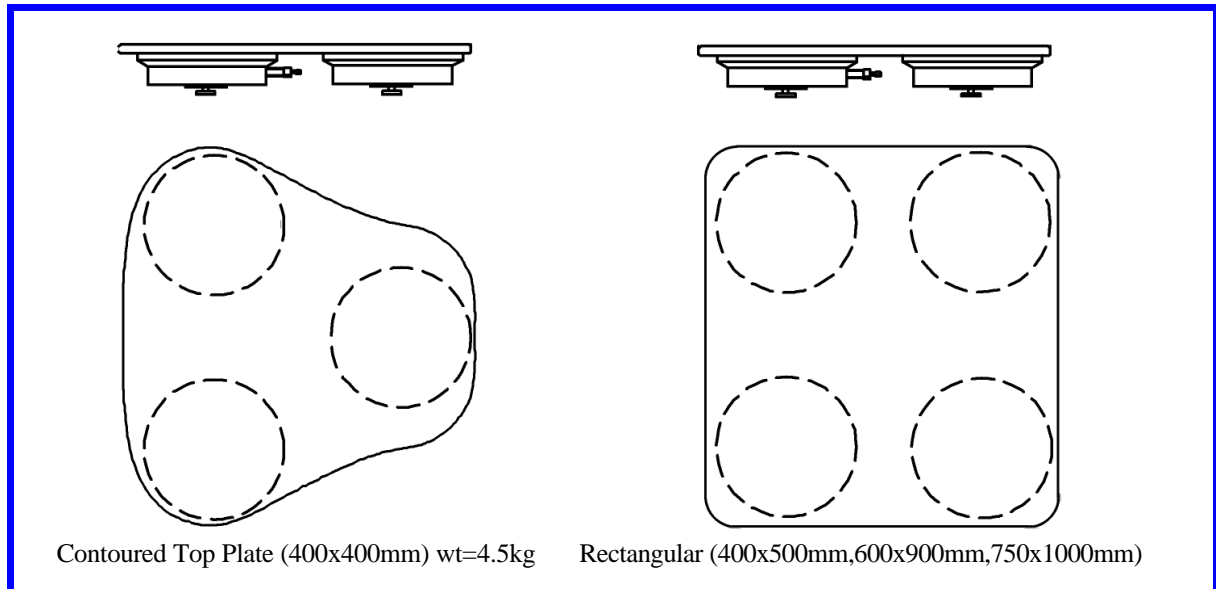
Our isolators also feature optimum damping. This means that although the top plate is softly suspended to the touch, essential for good isolation, large movements are rapidly damped away without overshoot. In our unique design (patent pending) a separate concentric integral damping chamber is connected 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 2000 Series of boards incorporate three or four pneumatic rolling diaphragm isolators which float our rigid top plates away from disturbances. They are simple to inflate using a hand pump, varying the pressure required according to the weight to be isolated and to level the system.



VERY LOW PROFILE- HIGH LOAD CAPACITY

Most isolation boards are used on desks or laboratory work tops which are at a convenient working height. The low 50mm profile of our boards means this comfortable working height is not compromised. The standard 400x400mm (16x16 in) contoured profile allows most instruments to fit on top while taking up minimal space in the working environment. The 150Kg capacity is more than ample in most applications.

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. Our top plate is shaped both to support the microscope and to allow easy access to controls. 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 and feature 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 range of alternative platforms and bases to accommodate larger instruments and also can supply stand alone isolators to use under existing rigid bases to isolate products. Polished granite and stainless works surfaces are optional . For details please contact us at the address below.

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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