

# AVT 700 Series and Dark Boxes

## Vibration Isolation Tables

## Standard and Electrically Shielded Enclosures



*AVT 700 Series self-leveling, pneumatic anti-vibration tables are an ideal platform for precision work. The addition of a standard or electrically shielded enclosure provides a controlled environment in which to obtain isolated measurements.*

### Anti-Vibration Tables for Precision Work

The AVT 700 Series vibration isolation tables are self-leveling, pneumatic, anti-vibration tables that provide highly stable and level work surfaces for precision work. AVT 700 Series support systems are available in 5 sizes and are ideally suited for applications as diverse as: semiconductor manufacturing; research and development; photographic workshops; chemical and drug industries; forensic science laboratories; medical institutions and other applications where data integrity might be compromised by uncompensated vibration.

The AVT 700 Series design is adaptable to a bench mounted version, without legs.

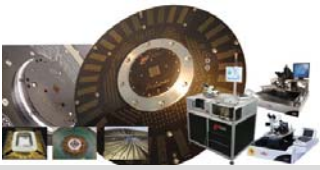
- Suitable for a variety of applications
- Increased efficiency with increasing vibration frequency
- 50 mm bench shroud overlap on surface plate for effective work surface dimensions
- Sensor controlled, automatic compensation of surface vibration
- Specialized versions for unique applications

### Dark Boxes

Wentworth offers two types of enclosures commonly referred to as dark boxes:

1. Standard Dark Box – creates a self-contained environment ideal for testing light-sensitive semiconductors requiring an enclosed, darkened environment. A standard dark box is also recommended as a safety enclosure when conducting any laser work.
2. Electrically Shielded Enclosure – an enclosure in which all edges are masked with special conductive foam, thereby electrically shielding the enclosure and ensuring it is isolated so that reliable measurements can be taken for analytical applications. An electrically shielded enclosure acts as a Faraday cage.

Wentworth dark boxes are designed to help you maintain the integrity of your test setup. Wentworth Standard and Electrically Shielded Enclosures offer smooth gliding action when opening or closing the doors from either left or right. In addition, Wentworth dark boxes are designed with selectable side or rear cable entry. These features ease the test setup and enable you to conveniently access the chamber for quick adjustments.



Wentworth Laboratories offers vertical probe card solutions for both memory and logic applications, advanced cantilever probe cards, complete custom probe card design, and a full complement of probers for applications up to 300mm. For more about Wentworth's full turnkey solutions, please visit us on the web at <http://www.wentworthlabs.com>.

## AVT 700 Series and Dark Boxes Specifications

### ANTI-VIBRATION TABLES (AVT)

| AVT 700 SERIES VIBRATION ISOLATION TABLES |  |                                  |                                |  |
|---|--|----------------------------------|--------------------------------|--|
| AVT Type                                  | Overall Dimensions<br>WxDxH (including legs) | Work Surface<br>Dimensions * WxD | Maximum<br>Equipment<br>Load** | Compatible with these Wentworth Systems and<br>vibration sensitive microscope work |
| AVT-701                                   | 900 mm x 630 mm x 760 mm                     | 800 mm x 530 mm                  | 150 kg                         | Aspect L1 Series   |
| AVT-701A                                  | 900 mm x 630 mm x 160 mm                     | 800 mm x 530 mm                  | 150 kg                         | Aspect L1 Series, microscope work  |
| AVT-702                                   | 1200 mm x 780 mm x 760 mm                    | 1100 mm x 680 mm                 | 150 kg                         | PML8000, Pegasus S200 Series, Pegasus S2000  |
| AVT-703                                   | 1250 mm x 945 mm x 760 mm                    | 1150 mm x 845 mm                 | 150 kg                         | Pegasus 300S   |
| AVT-704                                   | 1210 mm x 1021 mm x 760 mm                   | 1110 mm x 921 mm                 | 150 kg                         | Pegasus 300FA  |

\*Bench shroud overlaps the surface plate by 50mm all around

\*\*Maximum equipment load is based on a pressure of 70 psi and even distribution of the load.  
For lower supply pressures, deduct 74 kg for every 10 psi reduction

#### AVT Services

Air 80 psi (max), filtered and regulated shop or bottled air

#### AVT Comments

Consult factory for bench mounted version, other bench surface materials and special geometries

Efficiency increases with increasing vibration frequency

Typical amplitude reduction of a 10 Hz disturbance: 90/95%



### ENCLOSURES

| DARK BOX ENCLOSURES             |  |
|---------------------------------|--|
| Dark Box                        | Overall Dimensions WxDxH   |
| Bench mounted                   | <u>1200 mm x 870 mm x 1080 mm</u><br>1200 mm x 1045 mm x 1080 mm |
| With AVT-702                    | 1200 mm x 870 mm x 1840 mm                                       |
| With AVT-703                    | 1200 mm x 1045 mm x 1840 mm                                      |
| ELECTRICAL SHIELDING ENCLOSURES |  |
| Dark Box – Shielded             | Overall Dimensions WxDxH   |
| Bench mounted                   | <u>1200 mm x 870 mm x 1080 mm</u><br>1200 mm x 1045 mm x 1080 mm |
| With AVT-702                    | 1200 mm x 870 mm x 1840 mm                                       |
| With AVT-703                    | 1200 mm x 1045 mm x 1840 mm                                      |



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