

# ANTI VIBRATION MOUNTS



Mitutoyo Roundness Tester - RA 2200 with LC- 0.13nm installed on anti-vibration Table



# Dynemech

VIBRATION TECHNOLOGY

## ANTI VIBRATION TABLE



## Dynemech Anti Vibration Table



# SHOCK RESISTANT ANTI-VIBRATION TABLES



## Dynemech Anti-Vibration Tables

- **Dynemech's Anti-Vibration Tables** are ideal for Testing / Quality Laboratories co-located with industrial units having high vibration due to impact producing machines like presses, hammers, VMCs etc.
- An anti vibration table is designed for placing analytical and laboratory balances or control scales.
- Anti-Vibration Tables are designed with Granite Surface Plate with Grade-1 accuracy for critical measuring accuracies.
- Vibration damping in our Anti-Vibration tables are provided at two locations - below the granite table top and at the bottom using levelling feet which can help in proper leveling of the table as well as having insulation plate to remove any unwanted vibrations.
- Additionally, selection of Elastomeric, Pneumatic or Spring Based Damping depending upon the vibrations present in the Testing Laboratory.



## Applications of AV Tables

The **Vibration Isolated Table (VIT)** finds usage in critical areas where reading accuracy of instruments is affected by **unwanted vibrations**:

- Analytical Balances,
- Hardness Testers,
- Spectroscopes,
- Microscopes,
- Roughness Testers,
- Galvanometers,
- Profile Projectors,
- Atomic Force Microscopes,
- Roundness Testers,
- Electronic Microscopes ,
- Contour Measuring Machines,
- Atomic Absorption Spectrophotometers.



## Advantages of Anti-Vibration Benches

**The Anti-Vibration Work-Bench has the following advantages:**

- Grade 1 accuracy finish – Granite Surface Plate. This gives precision of 20 Microns on the surface plate.
- The surface plate will be completely isolated from all vibration using 4 stacks of 5 layered insulation sheets or pneumatic mounts.
- Vibration Isolators will absorb more than 90-95% vibration coming into the table.
- There are leveling feet at the bottom of the table for proper leveling of the table.
- The leveling feet will also have swivel and tilt feature to adjust to any surface slope.
- Castor wheels can be provided below the Anti-Vibration Table for easy movement.
- True Vibration Isolation – Making equipment on top of our tables truly isolated from any unwanted vibration.

## Advantages of Anti-Vibration Benches

- The Vibration Isolated Bench top platform offers 10 times better performance than a full size table. It also does this without any compressed air or electricity!
- This vibration isolation platform is extremely easy to use and offers extreme performance. It offers a 4-5Hz horizontal natural frequency.
- The Anti-Vibration Work-Bench is perfect for new generations of small SPM's and optical setups that require the highest performance in a very compact system.
- This AV Table Work-Bench the most portable, and most user-friendly isolator table ever offered that is capable of delivering this level of performance.



## Different Types of AV Tables

DYNEMECH Manufactures 3 Different Types of AV-Tables:

**VIBRATION ISOLATION TABLE**

Dual Layer Dp Insulation Sheet

2 Levels of Vibration Isolation

DLM MOUNTS for levelling & vibration isolation

**Anti-Vibration Table Isolated using Elastomeric material**

**DYNEMECH SHOCK RESISTANT ANTI VIBRATION TABLE**

Low Frequency Vibration Damping

Leveling Adjustment Slope Adjustment Low Frequency Vibration Damping

**Anti-Vibration Table VIT isolated using Pneumatic Air Springs**

**Anti-Vibration Table with Pneumatic Auto-Levelling Mounts**

Low Frequency Vibration Damping with Auto-Levelling

Leveling Adjustment Slope Adjustment Low Frequency Vibration Damping

**Anti-Vibration Table VIT with Auto-Leveling Pneumatic Mounts**

## Installation Examples

Mitutoyo Contracer CV- 3200 installed on Dynemech Anti-Vibration Table DIT-AL-02



Mitutoyo Roundtest RA 1600 on Dynemech Anti-Vibration Table- DIT AL-02

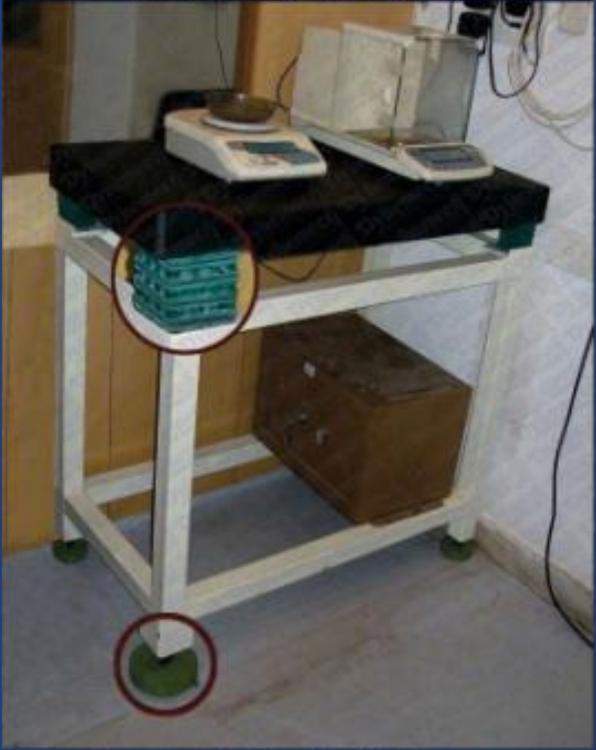


Electro Magnetic Force Compensation High Precision Analytical Balance with 0.01mg accuracy.



## Installation Examples

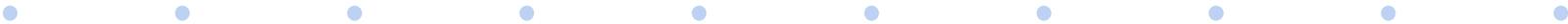
High Precision Laboratory Balance with readability 10mg



Atomic Force Microscope on DIT with Pneumatic Isolation

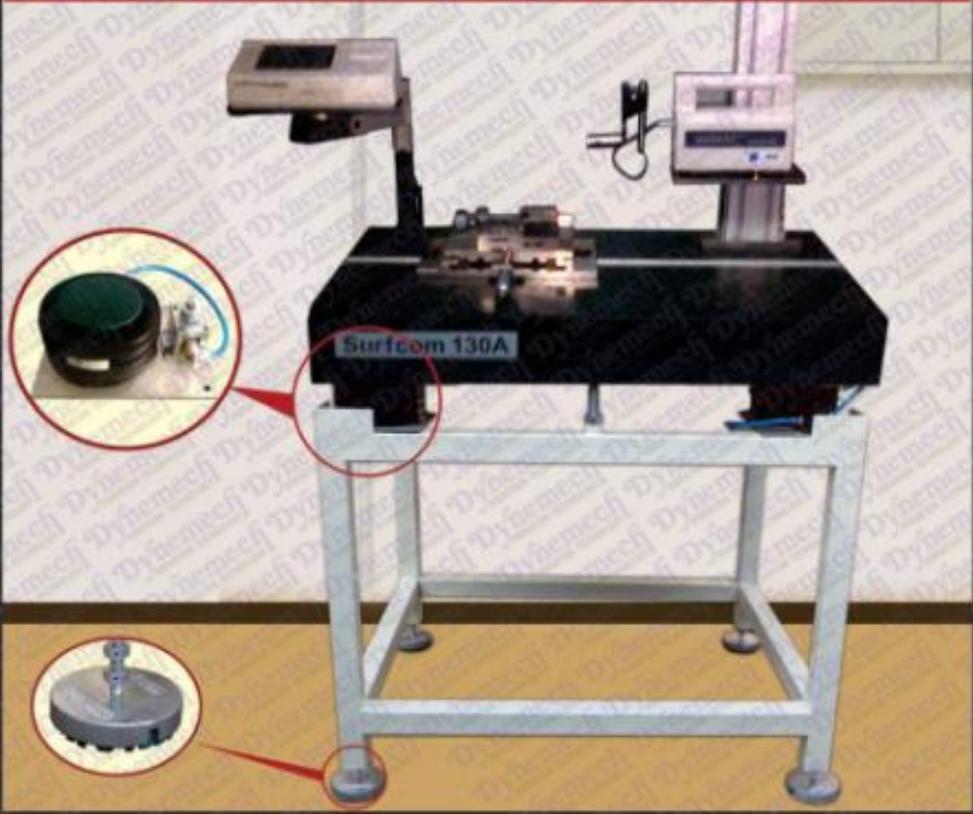


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## Installation Examples

**Zeiss SURFCOM on Pneumatic Auto-Leveling Mounts**



**Anti Vibration Table- VIT with Auto-Levelling Pneumatic Mounts (Demo @ Amtex Exhibition-2012)**



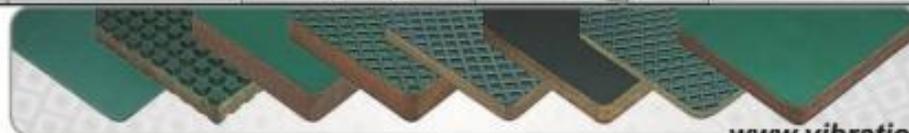
## THANK YOU !!

For More Details, visit our web:

<http://vibrationmountsindia.com>



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