Industrial Vibration Isolation Products

Product Overview
The desire to control heavy equipment noise for enhanced operator comfort and equipment longevity has presented significant challenges for equipment manufacturers. Industry standard mounts often fail to take advantage of improved features and materials to optimize performance. Noise testing based on the 4-Pole Test method demonstrates that significant gains in noise isolation are available without sacrificing size, weight or load capacity.

Product Selection
ITT Enidine Incorporated now offers a line of isolators to provide optimal characteristics and attenuation for a variety of vehicle and equipment applications. Designed to accommodate a range of mounting configurations and load conditions, ITT Enidine Elastomer products can be used for engine mounts, operator cabin isolation and other equipment.

Typical Applications
• Operator Cab Isolation
• Dashboard Mounts
• Engine Isolators
• Accessory Equipment Mounts
• Panel and Gauge Isolators
• Electronic Equipment Isolators

Features and Benefits
• Exceptional Noise Attenuation Performance
• Fail Safe Low-Profile Design
• Interchangeable with Existing Isolators
• Multiple Elastomer Stiffnesses
• Available on the Same Envelope Size
• Expansive Library of Proprietary Elastomer compounds

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Industrial Products for Vibration Isolation and Noise Attenuation

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As experts in the field of structure borne noise for heavy equipment, ITT Enidine provide the following services:

**Presentation of In-situ Attenuation of Isolators**
Classical mass-spring-damper approach cannot be used to predict high frequency noise attenuation. ITT Enidine uses the four pole method to capture the dynamic performance of the isolator, and the attachment structure.

**Elastomeric material development**
Elastomeric compounds are formulated based on the requirement for the isolator. Desired noise attenuation, temperature extremes, loads, and fatigue life are important criteria when selecting and developing compounds for construction and ag equipment.

**Installation Requirements**
Ease of installation is critical in the manufacturing of construction and ag equipment, ITT Enidine considers this as part of the total value of the system. Our isolators have been molded directly to custom brackets to provide cost-effective customer solutions.

**Fatigue life**
ITT Enidine understands the requirements to provide an isolation system with long life. Fatigue life for elastomeric isolators is directly related to frequency and amplitude. ITT Enidine has the expertise to design and test your isolation systems to ensure longevity.

**Temperature Extremes**
The dynamic performance of the isolator is very dependent on the temperature at which it performs. ITT Enidine designs and tests the isolator for these specific temperatures.

**Static and Ultimate Loads**
ITT Enidine’s isolators are designed to provide optimal performance at the specified static loads. The isolators also incorporate a fail safe mechanism to ensure the ability of the isolator to resist ultimate loads.

**Custom solutions**
ITT Enidine has a dedicated group of engineers, supported by the required analytical, design, manufacturing, and testing resources focused on the design of heavy equipment isolators. We offer traditional metallic isolators, and isolators using plastic materials. As a leader in the field, ITT Enidine can also partner with you on the specification development for these isolators.

**Testing and Manufacturing**
ITT Enidine is your partner for standard and custom elastomeric isolation systems for heavy equipment noise control. Successful isolation systems account for vibration and noise properties of the equipment systems to which they attach. We have a proven engineering approach for high frequency noise attenuation, and the engineers, materials, and test capabilities that allow us to develop and qualify your system.

**Shock and Vibration Control**
- Noise Reduction
- Low Frequency Applications
- Standard Product Solutions
- Fail-safe Designs

**Drop Testing**
- Temperature Extremes
- Environmental Conditions

**Engine Isolation**
- Shock and Vibration Control
- Engine Sensing Electronics
- Turbines
- Internal Combustion Engines
- Motor/Generator Sets
- Off-Highway Equipment
- Truck and Bus

**Noise Attenuation**
- Low and High Frequency
- Custom Elastomers (Noise, Temperature, Smog and Toxicity)
- Structural Elements
- Alignment Forgiveness

**Transportation/Shipping**
- Drop Shock
- Off Road
- Smooth Highway
- Rail Transport

**Constrution Equipment**
- Shock and Vibration Control
- GPS Receivers/Transmitters
- Commercial Electronics
- Disk Drives
- Computer Consols
- Flat Panel Displays
- Communications Equipment
- Mobile Business Systems

**Applications**
- **TRACTOR/AGRICULTURE**
  - Cab Mounting
  - Electronic Equipment Isolation
  - Piping, Pumps and Motors

- **ENGINE ISOLATION**
  - PTO Drives
  - Engine Sensing Electronics
  - Turbines
  - Internal Combustion Engines
  - Motor/Generator Sets
  - Off-Highway Equipment
  - Truck and Bus

- **TRANSPORTATION/SHIPPING**
  - Shock and Vibration Control
  - Cab Mounting
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**Performance Specifications**
- **Elastomeric material development**
  - Standard Elastomer Products
  - High Damped Isolators
  - Cup Mounts
  - AV Mounts
  - Multi-planes
  - Dome Mounts
  - Fail Safe Designs

- **Elongation**
  - Custom Elastomers
    - Custom Design Expertise
    - Broad Temperature Range
    - Reliable Design Construction
    - Wire mesh expertise

- **Elastomeric compounds**
  - Standard Elastomer Products
    - Proprietary Compound Blends

- **Elastomeric compounds**
  - Corrosion Resistant
  - Standard Product Selection
  - Systems Analysis and Integration
  - Multi-Axis Isolation
  - Minimum Sway Space

- **Fatigue life**
  - Standard Elastomer Products
  - High Damped Isolators
  - Cup Mounts

- **Temperature Extremes**
  - Rugged Design and Construction
  - Long Life

- **Lyne and High Frequency**
  - Extreme Temperature
  - Large Displacement
  - Systems Analysis and Integration

- **Component Attachments**
  - Custom Design Expertise
  - Bolt-On Devices
  - Custom Tuned

- **Applications**
  - Reduces Vibration Amplitudes
  - Bolt-On Devices

- **Custom Elastomeric isolators**
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