

Teaming Up for Comfort & Safety

We make it **possible**

“Optimizing Bus Noise & Vibration Isolation Systems from Bumper to Bumper”



Engines / Transmissions

- Custom designed to maximize performance and durability under highway speed and loading conditions
- Developed in partnership with bus manufacturers to achieve vehicle-level noise, vibration, and harshness (NVH) limits
- “Tunable” stiffness to accommodate multiple powertrains
- Integral motion limiting features to handle high torque loads
- Designs can be tailored to vehicle specific NVH goals
- Backed by Hutchinson technical support throughout the product lifecycle

Cooling Systems

- Offerings for base mounted, side mounted or engine mounted cooling modules
- Range of stabilizer rod designs with integrated isolators
- Family of designs to meet medium and heavy duty applications
- Protects heat exchanger cores from damaging vibratory inputs

Capabilities

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Body Mounts

- Isolates bus body from chassis structure-borne noise and vibration.
- Rugged and durable isolators with captive/fail-safe design.
- Tunable stiffness and dampening to meet NVH objectives.
- Geometry and installation customized to address available packaging space.



Exhaust

- Material options available for various applications: high-temperature elastomers and metal mesh solutions.
- Design configurations: exhaust hangers, bushing mounts and tube mounts.
- Metal Mesh Exhaust Isolators:
 - Wide temperature range (-130 ° F to +500 ° F)
 - Resistant to aging
 - Corrosion resistant
 - Impervious to ozone and chemicals
 - Available in a wide range of shapes and sizes

Suspension Components

- Rugged construction for application in primary suspensions.
- Load and deflection capacity to withstand suspension articulation.
- Reduces road noise, vibration and harshness.
- Elastomeric Spring Eye Bushing featuring fatigue-resistant rubber that provides:
 - Longer life than conventional pins with lubricated bearings
 - Typically last the life of the suspension
 - Maintenance free operation
 - Ease of installation

A Wide Range of Products and Solutions Available

Standard Solutions: include a broad range of passive noise and vibration isolation systems.

Active Vibration Control Systems: Use proprietary technology to control vibration by electronically sensing the disturbance and taking a compensating action.

Wide Range of Materials: Utilizing elastomers, metals and other substances that deliver dynamic performance under a broad range of temperature, chemical and other environments.

Custom Solutions: Designed and manufactured to meet your special noise and vibration requirements.

Manufacturing Capabilities

- ISO/TS 16949:2009 Certified.
- Multiple manufacturing locations in several countries.
- Mold custom designs using proprietary formulations.
- Manufacturing flexibility for quick responsiveness.

Engineering Design & Manufacturing Services

- Expert analysis to solve complicated noise and vibration problems.
- FEA and proprietary analytical tools for systems and components.
- Vibration Test Lab
- Extensive Materials Lab for developing custom elastomers.
- Custom Solutions developed to meet specific application requirements.
- Engineering and field sales support available for on-site visits.