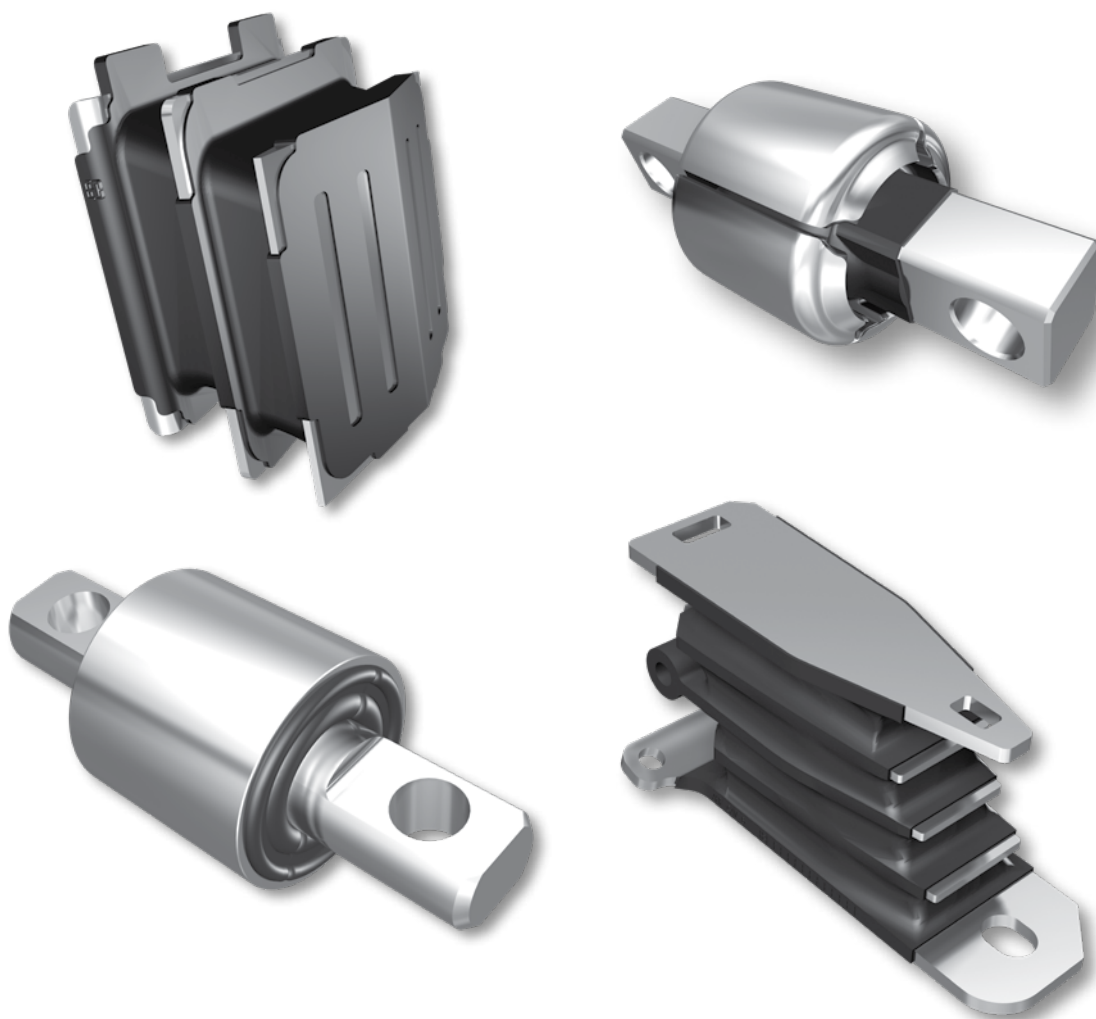


- Increased fatigue performance
- Weight efficiency
- Reduced maintenance
- Improved ride quality



Hendrickson leads the advancement of suspension and component technology as a result of more than 60 years of elastomer development and over 35 years of elastomer manufacturing experience. These accomplishments allow us to fully integrate components, modules and systems that meet commercial vehicle owners' demands for durability, weight savings and low life cycle costs.

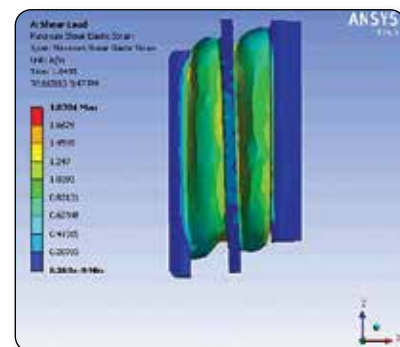
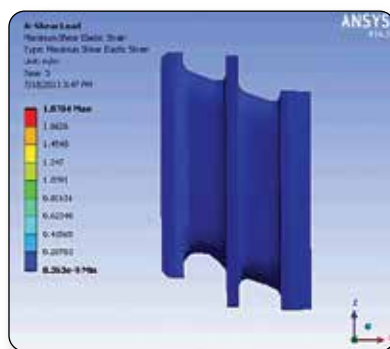
*To learn more about Elastomer Products,  
call Hendrickson or visit our global  
websites for additional information.*

# ELASTOMERS

## Durability Tested to Hendrickson's Rigorous Standards

Component development begins with state-of-the-art engineering software to identify stress points and simulate suspension performance in various real-world road and load conditions.

Initial designs are built and tested in our advanced research lab, then installed on vehicles for validation in the field.



ULTIMAAX®

## Optimised System Performance and Weight to Meet Specific Applications

All components are designed with strict product requirements, just like our full spring assemblies and suspension systems. We understand the importance of designing each component for current and future application needs.



ULTIMAAX®

## Integrated Component Development Alongside Suspensions and Springs

Our labs feature advanced test equipment that can test a full range of products from specific components to full suspension systems.

These simultaneous testing and design capabilities lessen time to market and increase suspension system quality.



HAULMAAX® EX



## Elastomer Products

Hendrickson's unique elastomer design capabilities result in higher performing, more durable, maintenance-free bushings.

### SPRING EYE BUSHINGS

Spring eye bushings are designed as a system providing enhanced spring performance in the areas of roll stability, ride and durability.



**Thru Bolt**



**Rate Ring Cartridge**



**Bar Pin**



### ELASTOMER SPRINGS

Our advanced components have re-defined the way elastomer spring suspensions perform. The innovative, high-grade rubber designs withstand heavy loads in rugged applications.



**Shear Spring  
(ULTIMAAX®)**



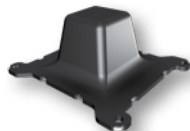
**Progressive Spring  
(ULTIMAAX® 48t)**



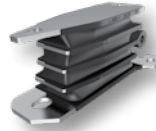
**Progressive Spring  
(ULTIMAAX® 37t)**



**Progressive Spring  
(ULTIMAAX® 21t)**



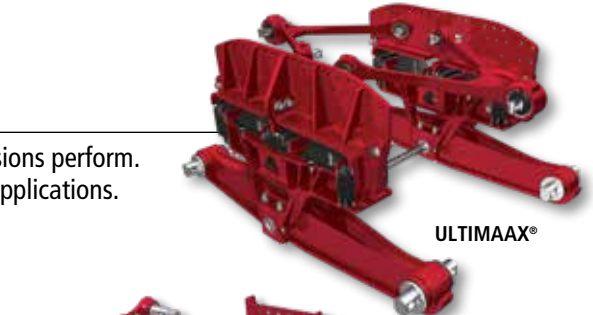
**Progressive Spring  
(HUV®)**



**Bolster Spring  
(ULTIMAAX® 21t)**



**Bolster Spring  
(ULTIMAAX® 21t)**



**ULTIMAAX®**



**HAULMAAX® EX**

### TORQUE ROD BUSHINGS

Unique bonded torque rod bushing designs reduce the friction and heat that often damage ordinary bushings – for longer life and greater load capacity. A wide variety of bushing configurations are available to meet various application and attachment needs.



**Severe-Duty**



**Split Ring**



**Taper Pin**



**Heavy-Duty**



**Standard-Duty**



### BEAM BUSHINGS

Premium elastomer beam end bushings provide enhanced flexibility between the beam and the axle to absorb braking and accelerating forces and provide designed articulation / compliance to help ensure high-mobility. Equalising beam center bushings are designed for specific Hendrickson walking beam suspension capacities and configurations to maximise system performance.



**Rate Ring End Bushing**



**Spherical End Bushing**



**Voided Center Bushing**



**Tri-Functional® II  
Vocational Trailer Bushing**



**Tri-Functional® III  
On-Highway Trailer Bushing**



**Quad-Functional® I  
Severe-Duty On-Highway  
Trailer Bushing**



**Quad-Functional® II  
Road-Friendly Vocational  
Trailer Bushing**

## Elastomer Products

### ZERO TORSION BUSHINGS

Hendrickson's "Zero Torsion" (ZT) bushings provide the right combination of high radial load and high torsional angle capacity required for many commercial vehicle applications. The design range of Hendrickson's ZT bushings includes smaller diameter suspension link bushings up to large pivot bushings for numerous vocational applications.



**Zero-Torsion II  
Small-Diameter  
Pivot Bushing**

**Zero-Torsion I  
Large-Diameter  
Pivot Bushing**

**Bridge Axle Bushings**

### HYBRID / EV ISOLATORS

Hendrickson leverages many years of isolator design experience to help vehicle manufacturers with their hybrid and electric vehicle component isolation needs. Isolation systems include motors, pumps, batteries and other critical components associated with hybrid and electric vehicles.

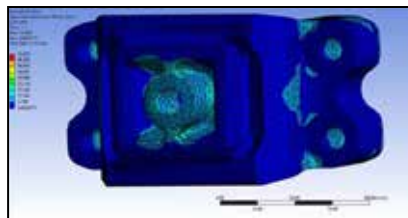
Advanced analysis methods ensure optimised product performance and reduced development time. Hendrickson has developed "Universal" isolator designs to keep prototype costs low and help accelerate development timing.



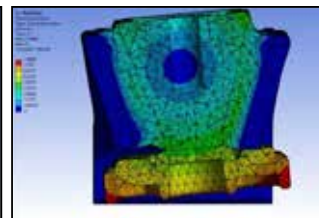
**Universal Block Design**



**Universal Bushing  
Design**



**Advanced Analysis**



**Hendrickson Genuine Parts** are the same quality components installed in Hendrickson original equipment suspensions — consisting of the same design, construction, performance and durability. There's only one way to maintain and protect your suspension's original performance. Ask for the name synonymous with the finest manufactured suspensions in the world.

*Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.*

*All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration. Contact Hendrickson for additional details regarding specifications, applications, capacities, and operation, service and maintenance instructions.*

**Call Hendrickson or visit our global websites for additional information.**



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