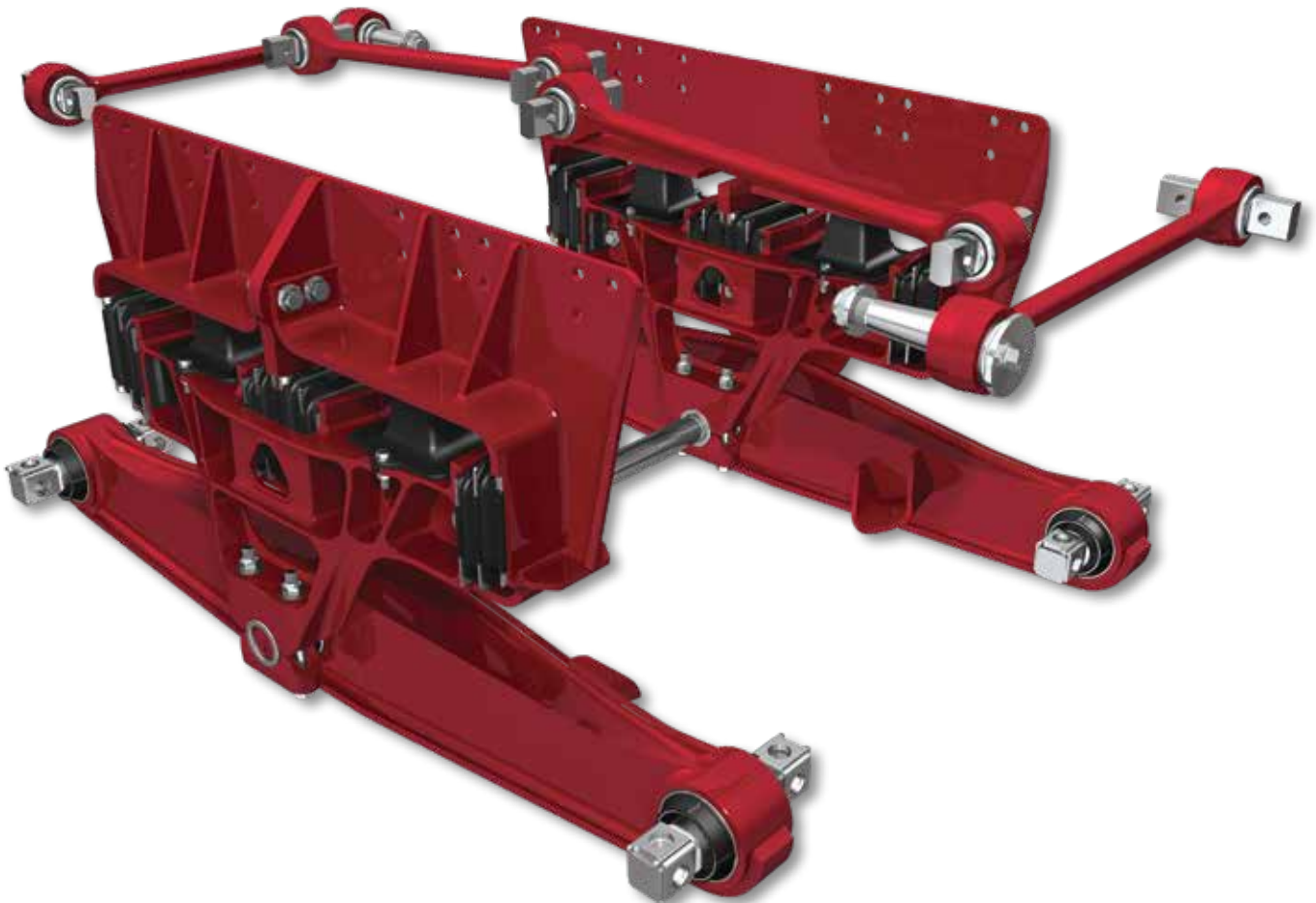




**ULTIMAAX<sup>®</sup>**

Advanced Severe-Duty Rubber Suspension

- Outstanding durability
- Progressive roll stability
- Low life-cycle costs
- Lighter than a range of mechanical suspensions in the same class



To learn more about ULTIMAAX,  
call Hendrickson or visit  
[www.hendrickson.com.au](http://www.hendrickson.com.au)

**HENDRICKSON**  
*The World Rides On Us<sup>®</sup>*

*Drawing on over 100 years of experience, Hendrickson employs the latest engineering advancements and expertise to develop the ULTIMAAX<sup>®</sup> severe-duty rubber suspension, designed for outstanding durability, empty ride quality, loaded stability and mobility.*

### **Progressive Load Spring**

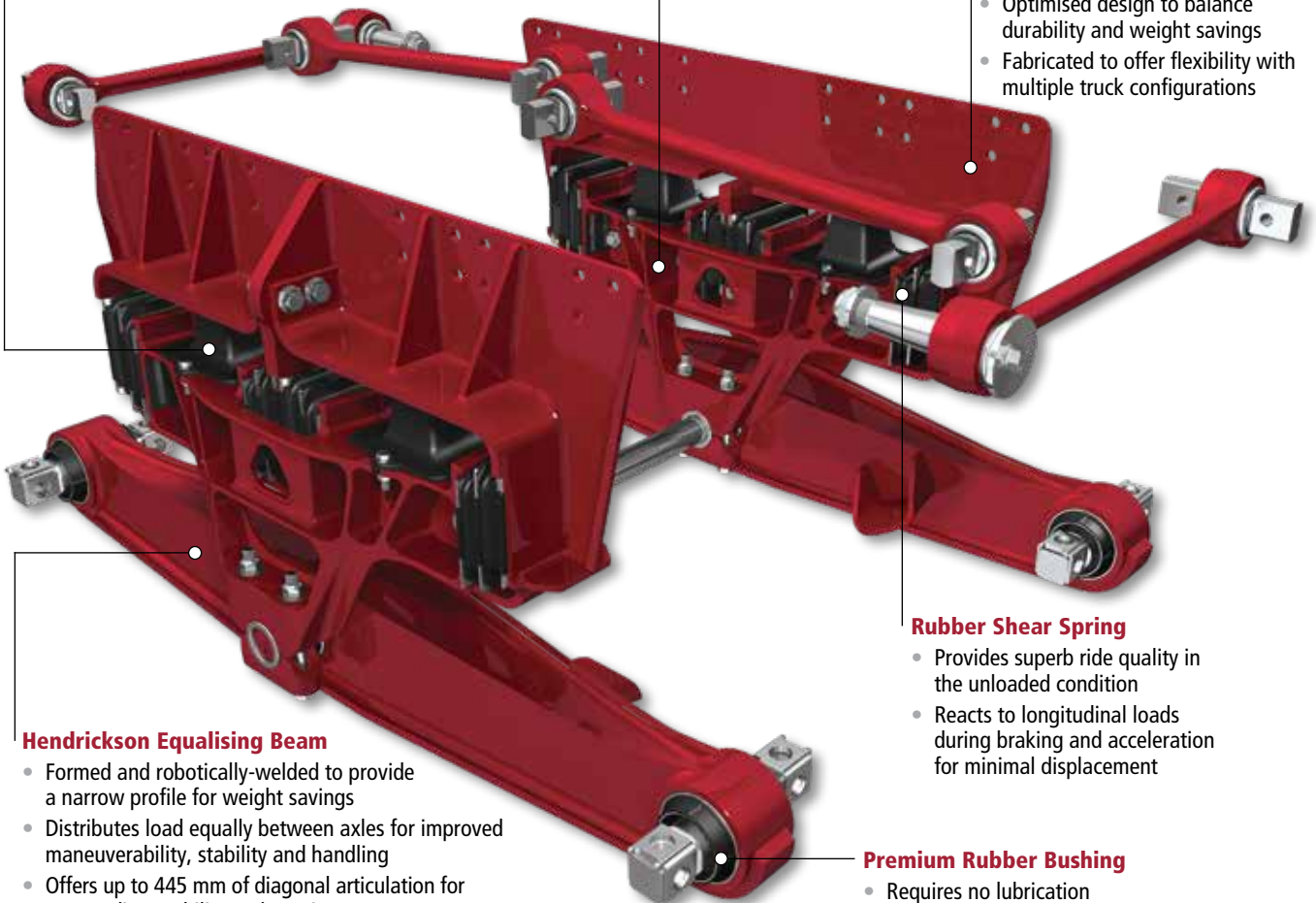
- Increases stiffness as the load increases, providing a unique balance of empty ride quality and loaded stability
- Provides long service life and easy replacement for reduced down time
- Contributes to high-roll stability characteristics of the suspension

### **Saddle**

- Triangular geometry provides structure and durability
- Increases payload with its lightweight design offering a considerable weight savings versus competitive suspensions

### **Frame Hanger**

- Optimised design to balance durability and weight savings
- Fabricated to offer flexibility with multiple truck configurations



### **Hendrickson Equalising Beam**

- Formed and robotically-welded to provide a narrow profile for weight savings
- Distributes load equally between axles for improved maneuverability, stability and handling
- Offers up to 445 mm of diagonal articulation for outstanding mobility and traction
- Lowers the center of gravity to increase stability
- Increases ground clearance with flat bottom design

### **Rubber Shear Spring**

- Provides superb ride quality in the unloaded condition
- Reacts to longitudinal loads during braking and acceleration for minimal displacement

### **Premium Rubber Bushing**

- Requires no lubrication
- Extend service life and reduce re-bush time with rugged bar pin axle connection



*Optional shock absorbers*



*Weld on design per application*

## MAAXimise Performance

### For outstanding stability, driver comfort and equipment protection

ULTIMAAX® features a unique spring design that balances empty ride and loaded stability. This not only helps to protect the driver, but also to cushion the load and protect the chassis, cargo and body equipment from excessive vibration and road shock due to potholes, rugged terrain and other inconsistencies in the road.



*In the empty condition, the suspension rides primarily on the diagonal rubber shear springs which help absorb road inputs and fore/aft shock for outstanding ride quality.*



*As payload is added and the vehicle center of gravity increases, the progressive load springs compress and increase in stiffness to provide additional stability without abrupt changes in ride.*

## MAAXimise Uptime

### To help keep you on the road longer

Extensive testing in our state-of-the-art lab and using challenging proving grounds, ULTIMAAX is designed to provide extreme durability in harsh terrain.

In addition to providing a reliable system for maximum uptime, ULTIMAAX is a low maintenance system that contributes to reduced life-cycle costs and less down time in the following ways:

- Superior ride results in reduced road shock and vibration to the vehicle, contributing to longer service life of the cab, chassis and body equipment
- No lubrication requirements
- Progressive load springs provide long service life and are easy to replace
- Bar pin end bushings designed to extend service life and reduce re-bush time
- Hendrickson parts and service available at thousands of locations worldwide
- Comprehensive technical support and training available



## MAAXimise Mobility and Traction

### In extreme environments



The ULTIMAAX system is capable of extremely high articulation for demanding job-site and off-highway conditions. When loaded, ULTIMAAX delivers up to 445 mm of diagonal wheel articulation to keep load on all drive wheels. The equalising beam design contributes to excellent traction, utilising a central pivot point to distribute load between the axles and help the tires maintain contact with the road or worksite surface.



# ULTIMAAX<sup>®</sup> Specifications

<b>Suspension Rating</b>	21,000 kg	23,500 kg	27,000 kg
<b>Suspension Weight<sup>1</sup></b>	535 kg	543 kg	638 kg
<b>GVM Approval<sup>3</sup></b>	Contact vehicle OEM <sup>2</sup>	Contact vehicle OEM <sup>2</sup>	Contact vehicle OEM <sup>2</sup>
<b>GCM Approval</b>	Contact vehicle OEM <sup>2</sup>	Contact vehicle OEM <sup>2</sup>	Contact vehicle OEM <sup>2</sup>
<b>Job-Site Travel Rating<sup>4</sup></b>	32,000 kg	34,000 kg	36,500 kg
<b>Diagonal Articulation<sup>5</sup></b>	445 mm	445 mm	445 mm
<b>Ride Heights</b>	241 - 330 mm	241 - 330 mm	241 - 330 mm
<b>Axle Spacing<sup>6</sup></b>	1321, 1372, 1422, 1524 mm	1321, 1372, 1422, 1524 mm	1372, 1422, 1524 mm

Hendrickson approves the use of ULTIMAAX<sup>®</sup> in the following vocational truck applications: tipper, concrete agitator, refuse, logging, crane / boom, platform and fire / rescue. All such applications must comply with applicable Hendrickson specifications and must also be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration. Contact Hendrickson and the respective vehicle manufacturer for approval of additional applications.

1. Installed weight includes full suspensions with torque rods and without shocks.
2. Suspension must be paired with appropriate axle rating.
3. Contact Hendrickson for applications that may exceed GVM approval ratings.
4. Job-site travel rating – operators using vehicles equipped with liftable pusher or tag axles must not exceed published ratings. Ratings are limited to no more than five percent of vehicle operation at speed not to exceed five mph. Liftable pusher or tag axles should only be raised (or unloaded) to improve vehicle maneuverability in job-site use or when vehicle is empty. Job-site travel ratings are consistent with published axle manufacturer's limitations. Axle and suspension job-site travel specifications must not be exceeded.
5. Suspension articulation may exceed vehicle's capability and may be limited by vehicle manufacturer; vehicle manufacturer installed axle stops may restrict suspension's articulation.
6. Contact Hendrickson for availability of additional beam lengths.

Technical literature available at [www.hendrickson.com.au](http://www.hendrickson.com.au) or contact Hendrickson at (03) 8792 3600.

**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 that is synonymous with the finest manufactured suspensions in the world.

Extended Warranty options available at [www.hendrickson.com.au](http://www.hendrickson.com.au)

*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 web site for additional information.



[www.hendrickson.com.au](http://www.hendrickson.com.au)

#### Hendrickson Asia Pacific

32-44 Letcon Drive  
Dandenong South, Victoria,  
3175 Australia  
Phone (03) 8792 3600  
Fax (03) 8792 3699  
Email [sales@hendrickson.com.au](mailto:sales@hendrickson.com.au)

#### Hendrickson New Zealand

Unit P, 24 Allright Place  
Mount Wellington, Auckland  
Phone (09) 9570 471  
Fax (09) 9570 4816  
Email [sales@hendrickson.co.nz](mailto:sales@hendrickson.co.nz)

#### Hendrickson Japan

Marine Building 6F, 4-23 Kaigandori  
Naka Ward, Yokohama City  
Kanagawa Prefecture, Japan 231-0002  
Phone +81 90 6464 3069  
Email [jp-customerservice@hendrickson.co.jp](mailto:jp-customerservice@hendrickson.co.jp)