

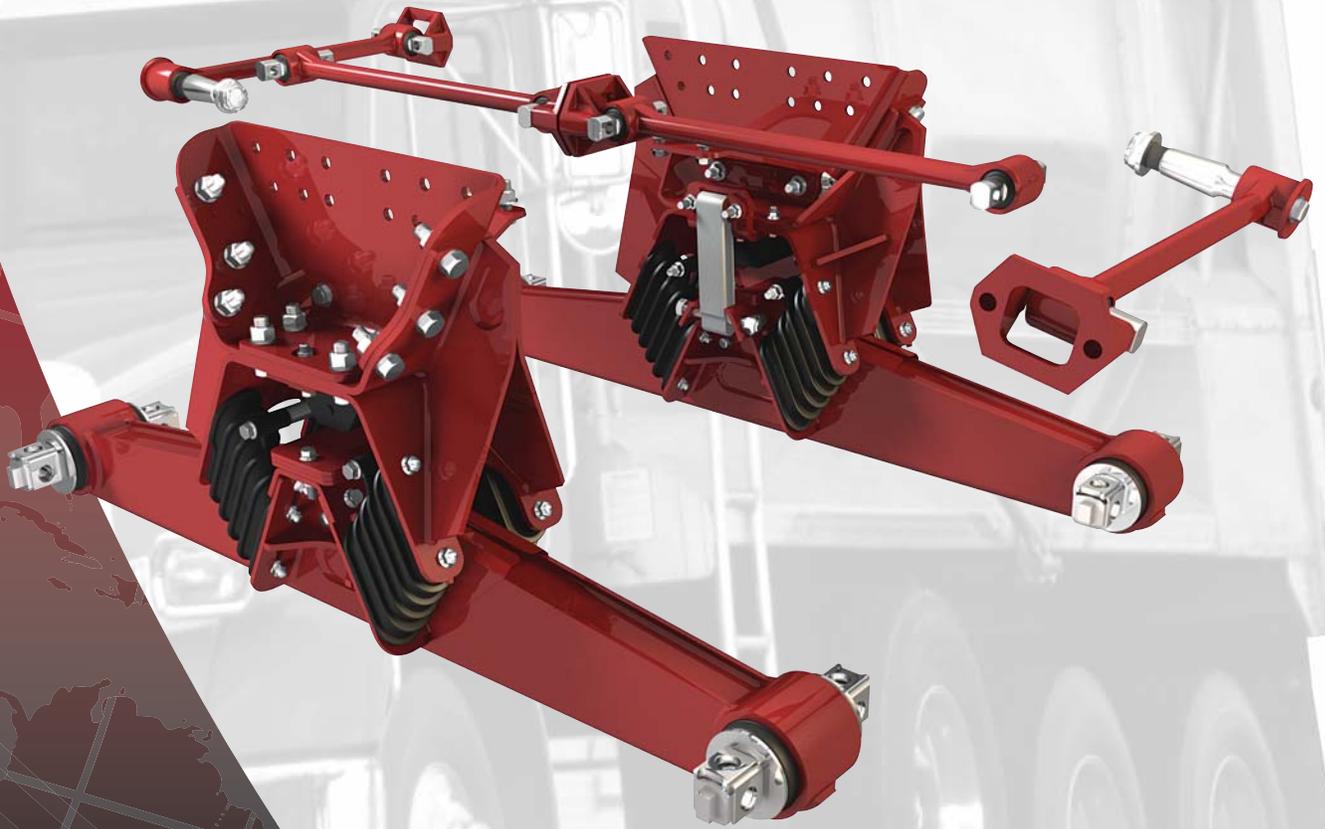
**H HAULMAAX<sup>®</sup>**  
Heavy-duty Suspension



**MAAX**imize payload

**MAAX**imize driver comfort

**MAAX**imize durability



**H HENDRICKSON**  
*The World Rides On Us<sup>™</sup>*

# MAXimize Payload and Durability

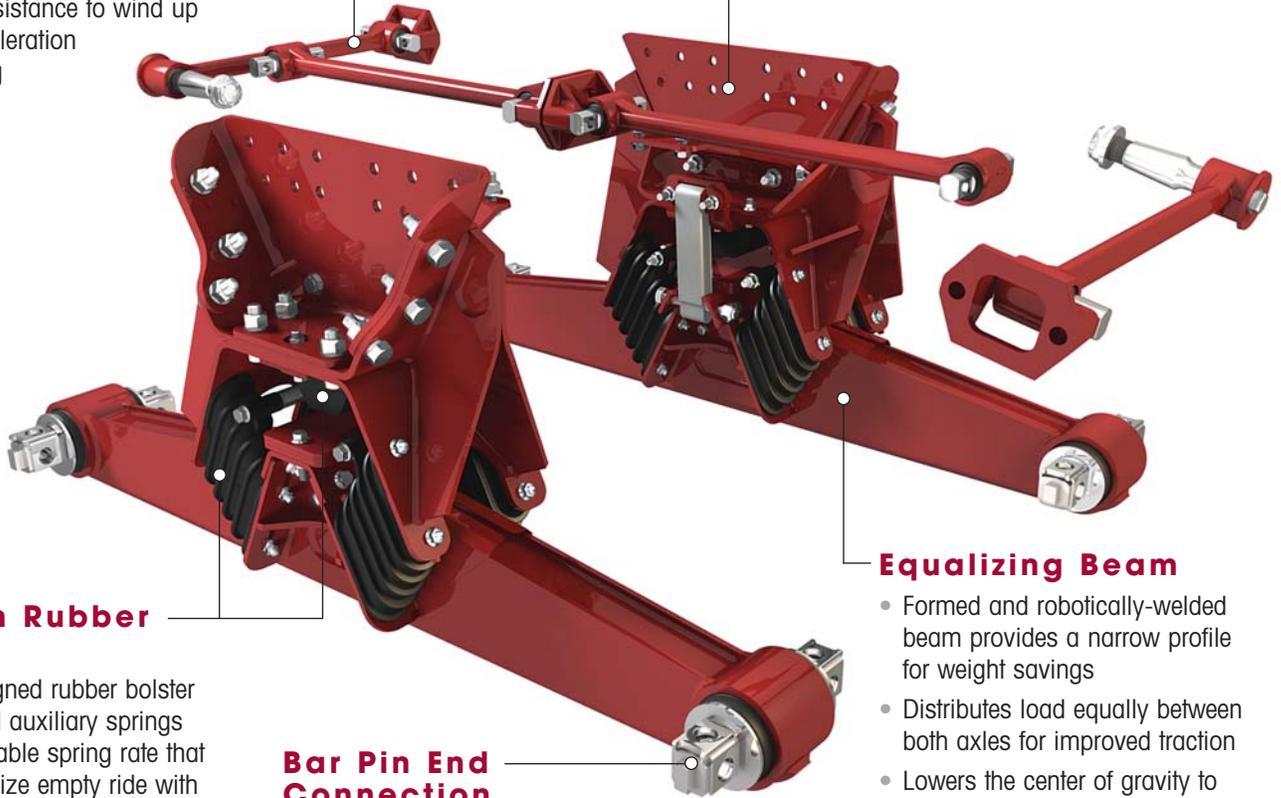
Suspension weight is reduced for greater payloads and improved durability through innovative design, higher strength materials and advanced manufacturing methods. Proven with extensive vehicle durability and laboratory testing, HAULMAAX® delivers the reliability and quality you've come to expect from Hendrickson — the leader in suspension technology.

## ULTRA ROD®

- Improve cornering by controlling lateral forces
- Transverse rods ensure maximum lateral axle control and straight line suspension stability
- Longitudinal rods engineered to optimize resistance to wind up during acceleration and braking

## Saddle and Frame Bracket

- Lightweight, modular design simplifies installation



## Premium Rubber Springs

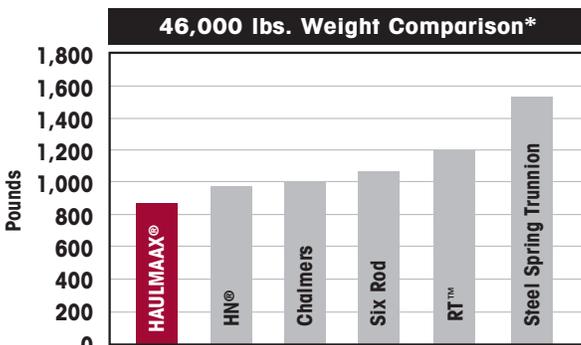
- Newly designed rubber bolster springs and auxiliary springs have a variable spring rate that helps optimize empty ride with loaded stability

## Bar Pin End Connection

- Rugged axle connection extends bushing life and allows easy axle alignment and serviceability

## Equalizing Beam

- Formed and robotically-welded beam provides a narrow profile for weight savings
- Distributes load equally between both axles for improved traction
- Lowers the center of gravity to increase stability
- Establishes a solid axle connection for improved handling
- Center bushing eliminated for reduced maintenance



\* Weight includes the suspension system and related components. Above data is based upon internal testing and/or published specifications. Actual product specifications and performance may vary depending upon suspension and vehicle configuration, operation, service and other factors.

## Shock Absorbers

- Provide additional driver comfort
- Required for tractor and logging applications



# MAAXimize Driver Comfort and Confidence

The unique spring system in HAULMAAX® adjusts to the load — delivering the preferred combination of empty-ride and loaded stability for vocational applications. Most importantly, this innovative suspension significantly reduces wheel hop by eliminating the fixed pivot point found in the center bushings of other walking-beam suspensions.

Extra wide spring centers and a unique auxiliary spring design give HAULMAAX exceptional stability for demanding applications such as refuse trucks, concrete mixers and dumps. Here's how it works:



Unloaded Condition

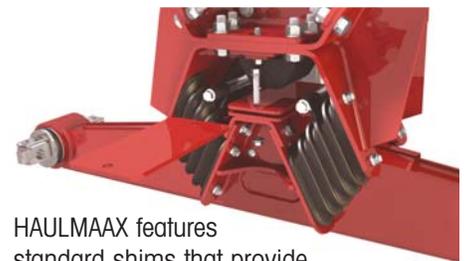
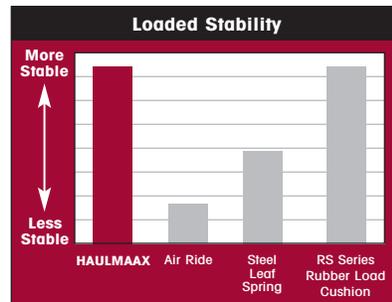
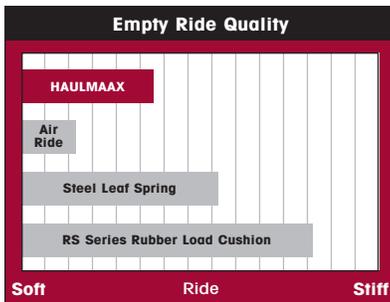
In the empty condition, the diagonally mounted rubber bolster springs act in shear and compression to help provide optimum spring deflection for outstanding ride quality. Bolster springs absorb vertical road inputs and fore /aft shock.



Loaded Condition

As payload increases, the bolster springs compress and increase in stiffness, while maintaining excellent ride quality. With higher loading, the high-density Hytrel® auxiliary spring engages, providing additional stability.

## MAAXimum Ride and Stability



HAULMAAX features standard shims that provide the ability to tune ride and handling for your specific application and body type. Shock absorbers are available to enhance performance in many applications.

Combining empty ride quality with loaded stability, HAULMAAX outperforms other suspension systems. Above data is based upon internal testing and/or published specifications. Actual product specifications and performance may vary depending upon suspension and vehicle configuration, operation, service and other factors.

## MAAXimize Uptime

Help reduce life cycle costs and increase the uptime of your vehicle:

- Improved ride reduces road shock and vibration to the vehicle for longer service life and fewer repairs to the cab, chassis and body equipment
- No lubrication requirements
- Fewer bushings to maintain — center bushing eliminated
- Rubber springs provide long service life and easy replacement
- Bar pin end bushing extends service life and provides alignment capability for longer tire life
- Ultra Rod® torque rod bushings provide longer service life than conventional bushings
- Hendrickson parts and service available at thousands of locations worldwide
- Comprehensive technical support, training and warranty

## MAAXimize Traction

HAULMAAX provides the versatility for demanding job-site or off-road conditions. When loaded, HAULMAAX delivers up to 17 inches\* of diagonal wheel articulation to keep load on all drive wheels. Unloaded articulation varies with vehicle configuration and empty body weight.

\* Suspension articulation may exceed vehicle's capability and may be limited by vehicle manufacturer; vehicle manufacturer installed axle stops may restrict suspension's articulation.

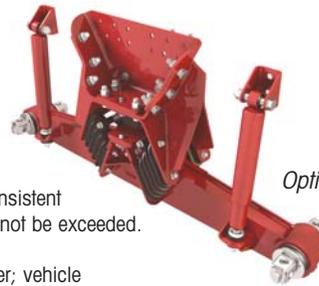


# HAULMAAX<sup>®</sup> Specifications

	HMX 400	HMX 460
Installed Weight <sup>1</sup> (54 in. axle spacing)	855 lbs.	861 lbs.
Suspension Rating	40,000 lbs.	46,000 lbs.
GVW Approval <sup>2</sup>	73,000 lbs.	80,000 lbs.
GCW Approval	160,000 lbs.	190,000 lbs.
Site Travel Rating <sup>3</sup>	55,000 lbs.	60,000 lbs.
Diagonal Articulation <sup>4</sup>	17 in.	17 in.
Lift Axles	Approved	Approved
Ride Heights	9.5 in., 10.5 in., 11.5 in., 13.25 in., 15.5 in.	9.5 in., 10.5 in., 11.5 in., 13.25 in., 15.5 in.
Axle Spacing <sup>5</sup>	52 in., 54 in., 60 in., 72.5 in.	52 in., 54 in., 60 in., 72.5 in.
Shock Absorber Applications <sup>6</sup>	Tractors, Logging	Tractors, Logging

Hendrickson approves the use of HAULMAAX in the following vocational truck applications: dump, concrete mixer, 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 complete suspension, torque rods, axle brackets and frame brackets; add 31 lbs. for shock absorbers.
2. Contact Hendrickson for applications that may exceed GVW approval ratings.
3. 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 off-road use or when vehicle is empty. Site travel ratings are consistent with published axle manufacturer's limitations. Axle and suspension site travel specifications must not be exceeded.
4. Suspension articulation may exceed vehicle's capability and may be limited by vehicle manufacturer; vehicle manufacturer installed axle stops may restrict suspension's articulation.
5. Contact Hendrickson for availability of beam lengths.
6. Shock absorbers are required in tractor and logging applications. Ride and traction may be improved in other applications with shock absorbers. Ride performance can be subjective and may be dependent on many factors beyond the suspension design such as cab suspension, road conditions, body/auxiliary equipment, frame specifications, etc. Contact Hendrickson or your truck manufacturer/dealer for further information.



Optional shock absorbers

**HENDRICKSON**  
Genuine Parts

*Hendrickson Genuine Parts provide 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 — Hendrickson.*

For additional details regarding specifications; applications; capacities; and operating, service and maintenance instructions, refer to applicable Hendrickson technical literature (available at [www.hendrickson-intl.com](http://www.hendrickson-intl.com)) or contact Hendrickson at 630-910-2800.

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

U.S. and foreign patents granted and/or pending

[www.hendrickson-intl.com](http://www.hendrickson-intl.com)

**HENDRICKSON**

Truck Systems Group  
800 South Frontage Road  
Woodridge, IL 60517-4904 USA

630.910.2800  
Fax 630.910.2899