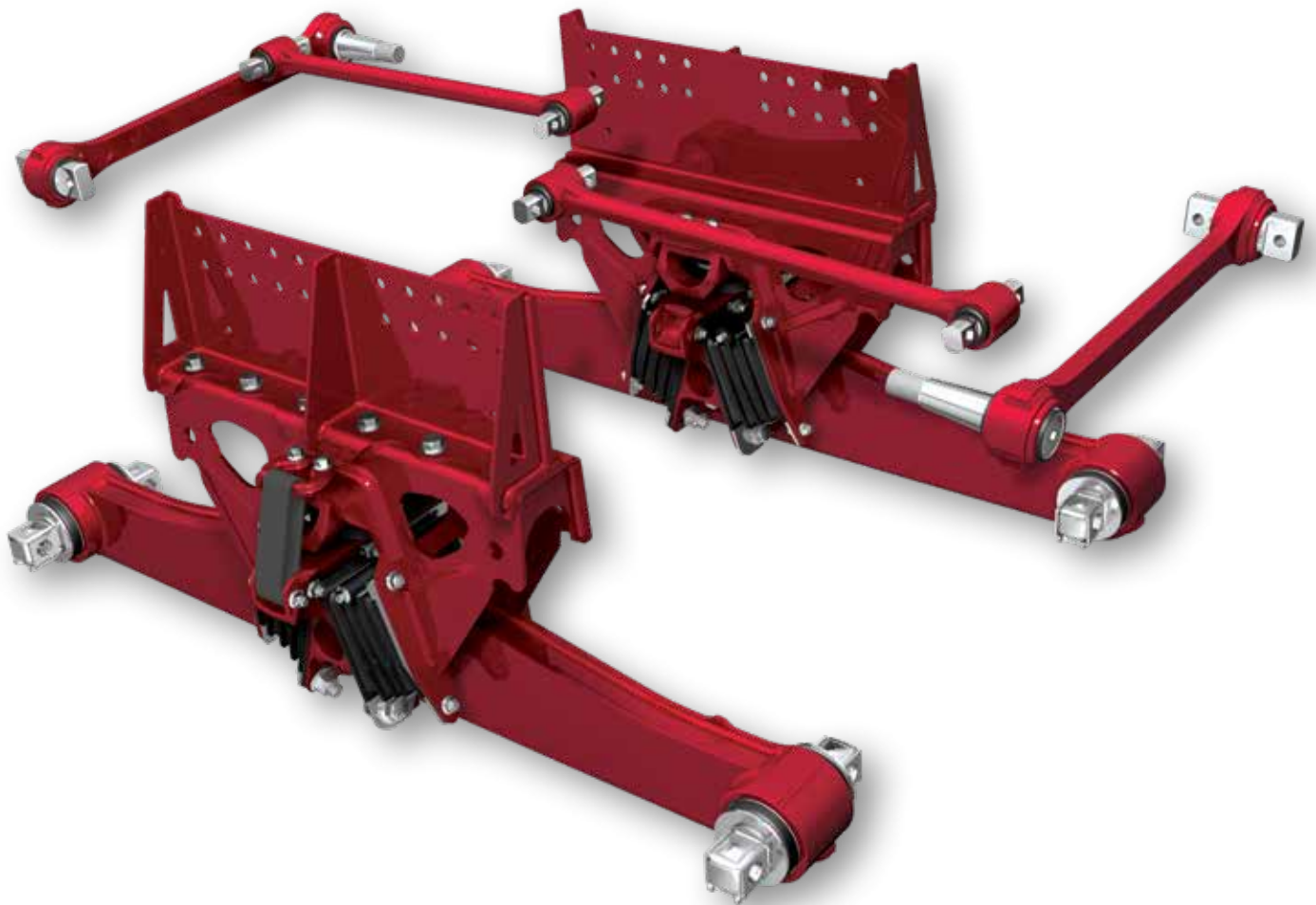


HAULMAAX[®] EX Heavy-Duty Rubber Suspension

- MAAximize payload
- MAAximize performance
- MAAximize durability



To learn more about HAULMAAX EX,
call 855.743.3733 or visit
www.hendrickson-intl.com

 **HENDRICKSON**
The World Rides On Us[®]



HAULMAAX® EX

Heavy-Duty Rubber Suspension

MAAXimize Payload and Durability

Suspension geometry is optimized to provide better site rating, increased capacity ranges and improved durability. Utilizing industry leading validation techniques, high strength materials, and advanced manufacturing methods, HAULMAAX® EX meets the increasing rigorous application demands by delivering the reliability and quality you've come to expect from Hendrickson, the leader in suspension technology.

Hendrickson TRAAX ROD™ – Torque Rods

- Fabricated heavy-duty torque rods provide greater durability over conventional rods
- Enhance handling during cornering by controlling lateral forces to maintain axle position

Hendrickson Longitudinal Rods

- Longitudinal rods engineered to optimize resistance to wind up during acceleration and braking

Saddle and Frame Bracket

- Lightweight, modular design simplifies installation

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
- Eliminates shim adjustments for lower maintenance

Premium Rubber Bolster Springs

- The unique design works with the Progressive Load Spring to deliver exceptional empty ride quality and loaded stability
- Optimized angle allows bolster springs to carry the majority of the payload and still react to braking and accelerating forces with minimal displacement

Dual Strap Kit

- Provides additional bolster spring protection
- Required on vehicles equipped with outriggers
- Available as production or aftermarket options

Bar Pin End Connection

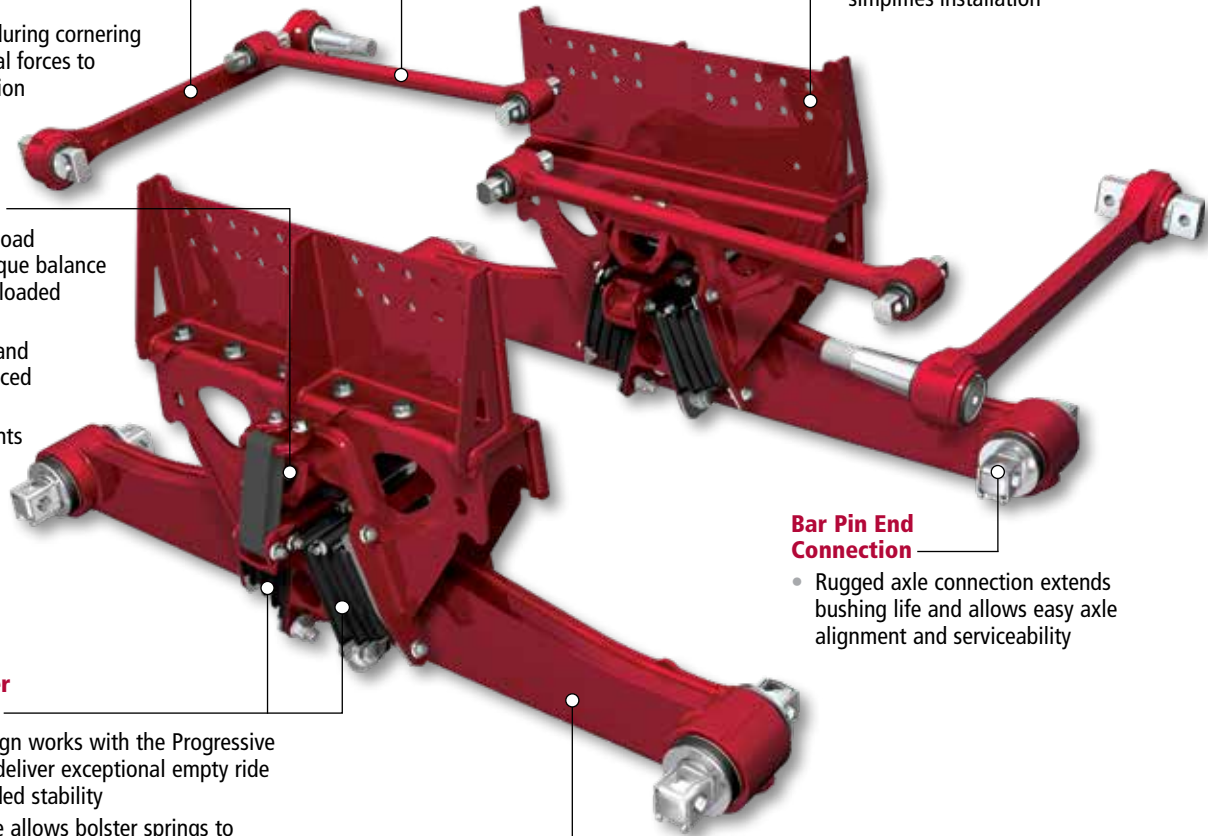
- Rugged axle connection extends bushing life and allows easy axle alignment and serviceability

Equalizing Beam

- Formed and robotically-welded beam provides a narrow profile for weight savings
- Distributes load equally between both axles for improved maneuverability, stability and handling
- Lowers the center of gravity to increase stability
- Narrow, offset beam allows for better packaging and increased tire clearance
- Center bushing eliminated for reduced maintenance

Shock Absorbers

- Provide additional driver comfort
- Required for tractor and logging applications
- Available as production or aftermarket options



MAAXimize Performance

HAULMAAX® EX features a unique spring design that balances empty-ride quality and loaded stability. Angled bolster springs and a unique progressive load spring provide exceptional stability for demanding applications such as refuse, concrete mixers and dumps.

How it Works:



Unloaded

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



Loaded

- As payload is added and the vehicle center of gravity increases, the progressive load spring compresses and increases in stiffness to provide additional stability without abrupt changes in ride.



Fully Loaded

- Once fully engaged, the progressive load spring is supported by an integrated jounce stop; protecting the rubber components from over-compression.

MAAXimize Uptime

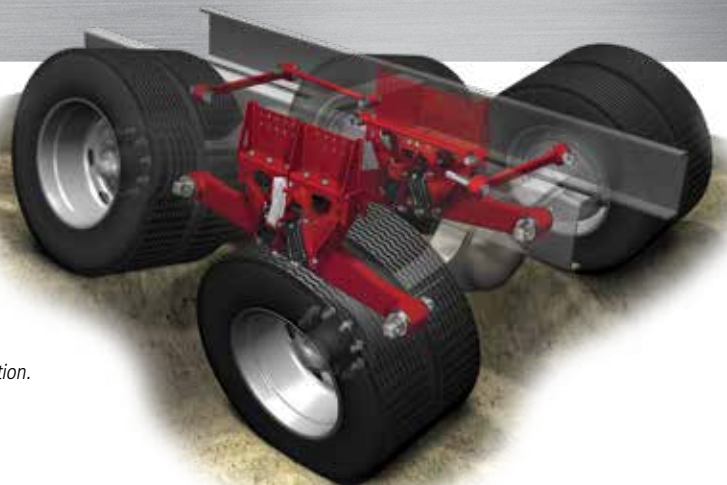
Help reduce life cycle costs and increase the uptime of your vehicle:

- Superior 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 bushings extend service life and provide alignment capability for longer tire life
- Hendrickson torque rod bushings provide longer service life than conventional bushings
- Hendrickson parts and service available at thousands of locations worldwide
- Comprehensive technical support and training

MAAXimize Mobility and Traction

HAULMAAX EX provides the versatility for demanding job-site conditions. When loaded, HAULMAAX EX 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. In addition, unlike other walking-beam suspensions, the innovative HAULMAAX EX design eliminates fixed center bushing pivot points to reduce wheel hop.

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

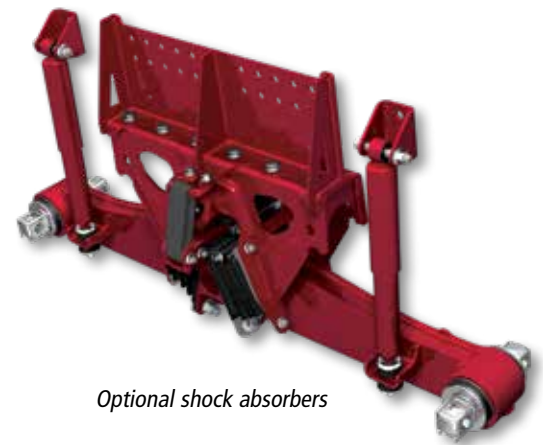


HAULMAAX® EX Specifications

Model	HMX EX 400	HMX EX 460	HMX EX 520
Installed Weight ¹ (lbs.)	855	864	958 ⁸
Suspension Rating (lbs.)	40,000	46,000	52,000
GVW Approval ² (lbs.)	83,000	88,000	93,000
GCW Approval (lbs.)	160,000	190,000	245,000
Job-Site Travel Rating ³ (lbs.)	60,000	70,000	75,000
Diagonal Articulation ⁴ (in.)	17	17	17
Lift Axles	Approved	Approved	Approved
Ride Heights ⁵ (in.)	9.5 – 13.25	9.5 – 13.25	9.5 – 13.25
Axle Spacing ⁶ (in.)	52 and 54	52 – 72.5	52, 54, 60
Shock Absorber Applications ⁷	Tractors, Logging	Tractors, Logging	Tractors, Logging

Hendrickson approves the use of HAULMAAX® EX in the following vocational truck applications: dump, concrete mixer, refuse, logging, crane / boom, platform and fire / rescue.

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. Job-site travel rating — operators using vehicles equipped with liftable pusher or tag axles must not exceed published ratings. Job-site ratings are limited to no more than five percent of vehicle operation at speeds not to exceed five mph. Liftable pusher or tag axles should only be raised (or unloaded) to improve vehicle maneuverability in job-site applications 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.
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. HAULMAAX EX ride height measurements are taken from the centerline of the axle to the bottom of the truck frame.
6. Contact Hendrickson for availability of beam lengths.
7. 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.
8. 52K installed weight includes complete suspension, double rebound straps, longitudinal torque rods, Hendrickson TRAAX ROD™ transverse torque rods, axle brackets and frame brackets; add 31 lbs. for shock absorbers.



Optional shock absorbers

Technical literature available at www.hendrickson-intl.com or contact Hendrickson at 855.743.3733.

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-intl.com

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 at **630.910.2800** or **855.RIDERED (743.3733)** for additional information.



www.hendrickson-intl.com

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