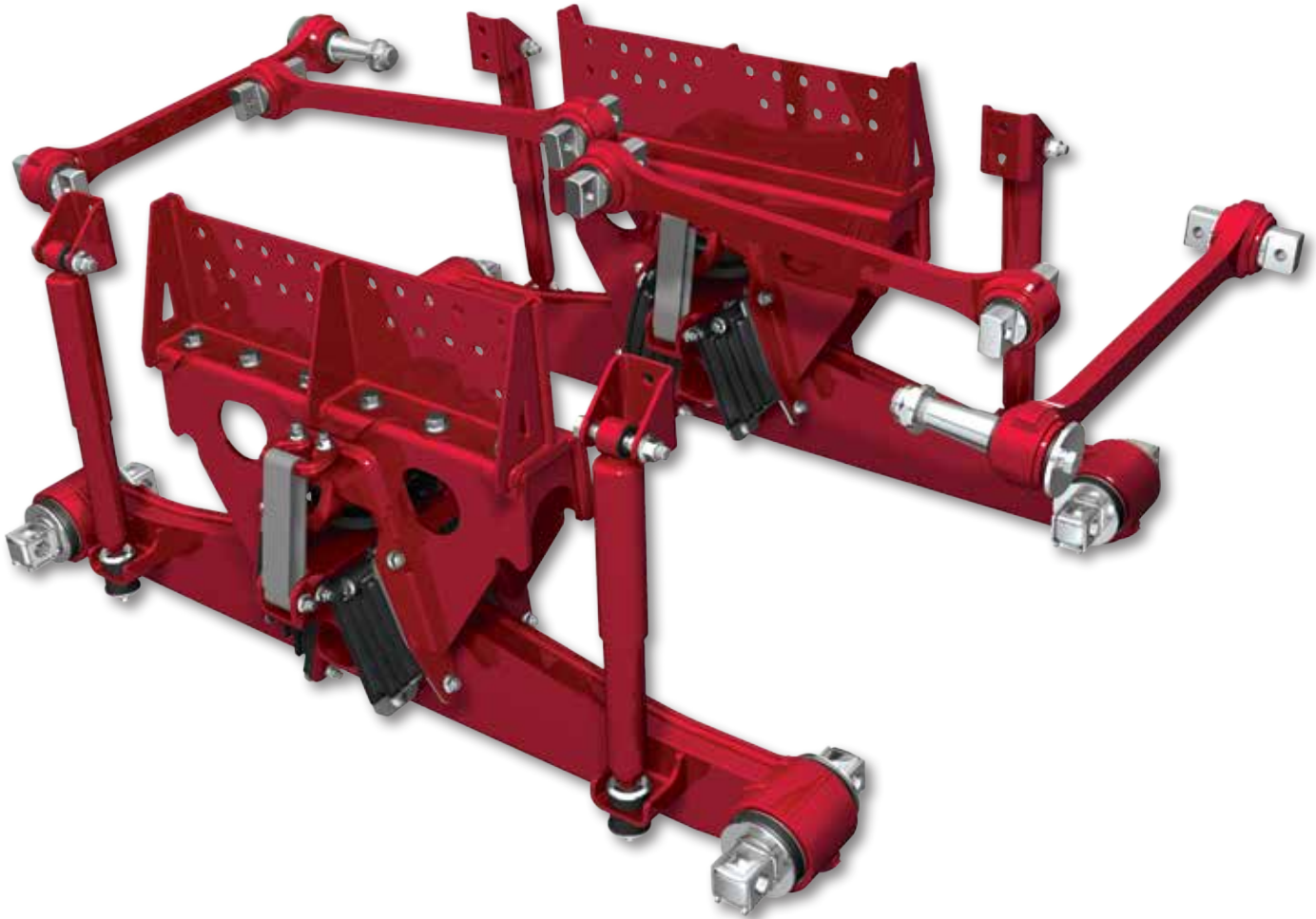


HAULMAAX™ EX

Heavy-Duty Lightweight Truck Rear Rubber Suspension System



- MAAximise payload
- MAAximise performance
- MAAximise durability



Suspension geometry is optimised to provide better jobsite rating, increased capacity ranges and improved durability. Utilising industry leading validation techniques, high-strength materials and advanced manufacturing methods, HAULMAAX™ EX, meets the increasingly rigorous application demands by delivering the reliability and quality you've come to expect from Hendrickson, the leader in suspension technology. 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 tippers. HAULMAAX EX is available in capacities from 18,000 to 23,500 kg.

To learn more about HAULMAAX EX,
visit www.hendrickson.com.au

HENDRICKSON
The World Rides On Us®

HAULMAAX™ EX

Heavy-Duty Lightweight Truck Rear Rubber Suspension System

MAAXimise Payload and Durability

Suspension geometry is optimised to provide better jobsite travel rating, increased capacity ranges and improved durability. Utilising industry-leading validation techniques, high-strength materials and advanced manufacturing methods, HAULMAAX™ EX meets increasingly rigorous application demands by delivering the reliability and quality you've come to expect from Hendrickson, a 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
- Required in transverse torque rod position
- Optional in longitudinal torque rod position

Hendrickson Longitudinal Torque Rods

- Longitudinal torque rods engineered to optimise 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 downtime
- 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
- Optimised angle allows bolster springs to carry the majority of the payload and still react to braking and accelerating forces with minimal displacement

Dual Rebound Straps

- Provides additional bolster spring protection
- Required on vehicles equipped with outriggers
- Standard for 52K suspensions
- Available as a production or aftermarket option

Bar Pin End Connection

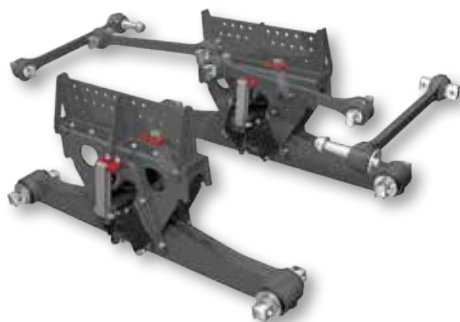
- Rugged axle connection extends bush life and allows easy axle alignment and serviceability

Equalising Beam

- Formed and robotically-welded beam provides a narrow profile for weight savings
- Distributes load equally between both axles for improved manoeuvrability, stability and handling
- Lowers the centre of gravity to increase stability
- Narrow offset beam allows for better packaging and increased tyre clearance
- Centre bush eliminated for reduced maintenance

Shock Absorbers

- Provide additional driver comfort
- Required for prime mover and logging applications
- Available as a production or aftermarket option



MAAXimise 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 (PLS) provide exceptional stability for demanding applications such as refuse, concrete mixers and tippers.

How it Works:



**Lightweight Body
(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



**Heavy Body
(e.g. mixer - unloaded)**

- In the empty condition, when using a heavy body, the progressive load spring will be compressed and no gap will be visible



Loaded

- As payload is added and the vehicle's weight increases, the progressive load spring compresses and increases in stiffness to provide additional stability



At Jobsite Rating

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

After the first 2 to 6 months of use, the spring system may exhibit a reduced PLS gap or none at all, which is normal, even with rubber components in good condition.

MAAXimise Uptime

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

- Superior ride reduces road shock and vibration to the vehicle to promote longer service life and fewer repairs to the cab, chassis and body equipment
- Integrated jounce stop protects rubber components from compressing beyond their operating range, extending durability and service life
- No lubrication requirements
- Fewer bushes to maintain — centre bush eliminated
- Rubber springs provide long service life and easy replacement
- Bar pin end bushes help extend service life and provide alignment capability for longer tyre life
- Hendrickson torque rod bushes provide enhanced performance over conventional bushes
- Hendrickson parts and service available at thousands of locations worldwide
- Comprehensive technical support and training

MAAXimise Mobility and Traction

HAULMAAX EX provides the versatility for demanding jobsite conditions. When loaded, HAULMAAX EX allows up to 430 mm* 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 centre bush pivot points to reduce wheel hop.

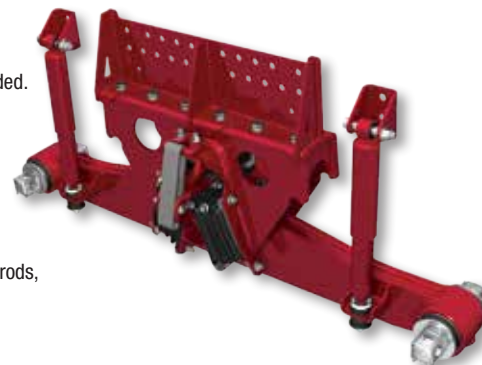
* Suspension articulation may exceed vehicle's capability and may be limited by vehicle manufacturer; vehicle manufacturer installed axle stops may restrict suspension's articulation.



	HAULMAAX™ EX		
Suspension Rating (kg)	18,000	21,000	23,500
Installed Weight¹ (kg)	379	383	426 ⁶
GCM Approval (kg)	72,500	86,000	111,000
Jobsite Travel Rating² (kg)	27,000	31,000	34,000
Diagonal Articulation³ (mm)	430	430	430
Lift Axles	Approved	Approved	Approved
Ride Heights⁴ (mm)	203 – 337	203 – 470	241 – 337
Axle Spacing⁵ (mm)	1321, 1372 and 1524	1321, 1372, 1524 and 1842	1321, 1372 and 1524

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, frame brackets and shock absorbers.
2. Jobsite travel rating — operators using vehicles equipped with liftable pusher or tag axles must not exceed published ratings. Jobsite ratings are limited to no more than five percent of vehicle operation at speeds not to exceed eight kilometres per hour. Liftable pusher or tag axles should only be raised (or unloaded) to improve vehicle manoeuvrability in jobsite applications or when vehicle is empty. Jobsite travel ratings are consistent with published axle manufacturer's limitations. Axle and suspension jobsite travel specifications must not be exceeded.
3. Suspension articulation may exceed vehicle's capability and may be limited by vehicle manufacturer; vehicle manufacturer installed axle stops may restrict suspension's articulation.
4. HAULMAAX EX ride height measurements are taken from the centreline of the axle to the bottom of the truck frame.
5. Contact Hendrickson for availability of beam lengths.
6. HAULMAAX EX 520 installed weight includes complete suspension, double rebound straps, longitudinal torque rods, Hendrickson TRAAX ROD™ transverse torque rods, axle brackets, frame brackets and shock absorbers.



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.

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, operation, service and maintenance instructions.

Call Hendrickson or visit our website for additional information.



www.hendrickson.com.au



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