

HENDRICKSON TRUCK

REAR SUSPENSIONS FIT

THE STANDARD FOR

PERFORMANCE, RIDE

AND DURABILITY

H **SUSPENSION
CONVERSIONS**
Truck Suspension Systems

HAULMAAX®



AR2™



PRIMAAX®



HN®



HAS™



RTE™



For The Road Ahead™

H **HENDRICKSON**

SUSPENSION CONVERSIONS

Hendrickson will aid you in the selection of a rear suspension kit to meet your vehicle requirements. Suspension conversions, glider kit installations, and custom truck applications are made simple with Hendrickson's suspension conversions.

AR2™ — Original Equipment or Retrofit Truck Air Suspension

- Applications include dump, crane/boom, and platform
- Converts most RT™/RTE™ steel spring suspensions to an air suspension
- Better ride, longer component life, reduced weight and improved durability
- High articulation capabilities for on and off road applications
- Capacities of 40,000, 46,000 and 52,000 lbs.



PRIMAAX® — Vocational Air Suspension

- Ideal for heavy-haul, construction, logging, refuse and mixer applications
- Axle connection and torque rods help reduce torsional axle stress and driveline vibration
- Large-volume, low frequency air springs provide a smooth ride for on and off road uses
- Up to 12.5 in. diagonal wheel articulation for superior mobility
- Capacities of 23,000 and 26,000 lbs.(single), 46,000 and 52,000 lbs.(tandem), 69,000 and 78,000 lbs. (tridem)



HAULMAAX® — Heavy-duty Rubber Suspension

- Applications include construction, refuse, mixer and logging
- Lightweight vocational tandem suspension
- Reduces maintenance with fewer bushings and no lubrication requirements
- VariRate® spring system provides superior combination of empty ride and loaded stability
- Up to 17 in. of diagonal articulation for greater off road mobility
- Capacities of 40,000 and 46,000 lbs.



HAS™ — Air Suspension

- Suited for on and off-highway applications
- Excellent ride quality
- Approved for up to 25 percent off-highway use
- Approved for use with lift axles
- Optional inboard shocks available
- Approved for use in 12,000 and 23,000 lbs. (single), 40,000 and 46,000 lbs. (tandem) applications



HN® SERIES — Heavy-duty Rubber Suspension

- Recommended for construction, refuse, mixer and logging applications
- VariRate® system results in excellent loaded stability and unloaded ride quality
- Up to 17 in. of diagonal articulation contributes to outstanding traction
- Reduced maintenance with fewer bushings and no lubrication requirements
- Capacities of 40,000, 46,000 and 52,000 lbs.



RT/RTE SERIES — Walking beam Suspension

- Well suited for dump, refuse, mixer and military applications
- RT Series engineered with low maintenance bushings and spring assemblies
- RTE Series features extended leaf spring for improved unloaded ride and loaded stability
- RT capacities up to 65,000 lbs. and RTE capacities up to 50,000 lbs.



SUSPENSION CAPACITIES RANGE FROM:

- 34,000 lbs. to 120,000 lbs. on walking beam suspensions
- 12,000 lbs. (single axle) to 52,000 lbs. (tandem axle) 78,000 lbs. (tridem axle) on air suspensions
- Inquire about additional capacities

WALKING BEAM SUSPENSION KITS INCLUDE:*

- Beams at standard axle spacing lengths as supplied to OEM's
- Standard frame mounting brackets as supplied to OEM's
- Standard ride heights

- All suspension components less axle beam hangers and torque rod axle brackets
- ULTRA ROD® torque/ transverse rods with frame brackets, if applicable

NOTE:

- * Axle beam hanger and torque rod axle brackets are to be supplied by the respective axle manufacturer

INQUIRE ABOUT:

- Optional capacities, ride heights and axle spacings
- Air suspension conversion and a list of required modifications

AR2™ SPRING AIR

Suspension weight is reduced through innovative design, higher strength materials and advanced manufacturing methods for greater payloads and improved durability. AR2™ delivers the reliability and quality you've come to expect from Hendrickson — the leader in suspension technology and the experts in walking beams.

TRANSVERSE TORQUE RODS

Heavy-duty transverse rods ensure maximum lateral axle control and straight line suspension stability.

LONGITUDINAL TORQUE RODS

Engineered to optimize resistance to axle wind-up during acceleration and braking.

HEIGHT CONTROL VALVE

Zero delay operation with minimum dead band helps maintain constant ride height.

HEAVY-DUTY SHOCK ABSORBERS

Standard for optimal ride and cargo / body protection.

LIGHTWEIGHT FRAME HANGER

Controls acceleration, braking, and vertical forces for longer hanger and bushing life.

TRAILING ARM/SADDLE ASSEMBLY

Replaces spring/saddle assembly of existing RT/RTE suspensions. The heavy-duty trailing arm/saddle assembly provides lighter weight, good articulation and optimal ground clearance.

LARGE VOLUME AIR SPRINGS

Rolling lobe design provides variable spring rates to deliver superior ride quality.

CROSS TUBE

Made from rigid steel to deliver lateral suspension support and enhanced stability.

BAR PIN RUBBER END BUSHING

Provides longer bushing life and adds axle alignment capability. Three-piece adapter-beam end connection also available.

EQUALIZING BEAM/WALKING BEAM

AR2 is compatible with most Hendrickson RT/RTE walking beams. If required, robust lightweight fabricated beams are available separately.

Hendrickson beams are highly engineered for efficiency and extensively tested for durability.

U.S. Patents Granted. Foreign Patents Granted and Pending.

SPECIFICATION AND ORDER PROCESS

SPECIFICATION PROCESS

Call Hendrickson Truck Sales Engineering at 630.910.2800 to obtain a Suspension Application form (available online at www.hendrickson-intl.com).

Fill out and fax the fully completed Suspension Application form to Hendrickson Sales Engineering at 630.910.2097.

Hendrickson develops a Suspension Kit "Bill of Material" and delivers this information to you for the ordering process.

ORDER PROCESS

Contact your local truck dealer or authorized Hendrickson distributor with the bill of material part number provided.

Delivery of suspension kit will typically be within 3 – 4 weeks.

FOB Hendrickson Kendallville, Indiana.

Visit our web site for more information on Hendrickson products www.hendrickson-intl.com.

SUSPENSION PERFORMANCE RATING*

	AR2	PRIMAAX	HAULMAAX	HAS	HN	RT	RTE
Ride Quality– Loaded	9	10	8	10	8	7	7
Ride Quality–Unloaded	9	10	8	10	8	5	7
Mobility/Articulation	9	8	10	5	10	9	9
Stability Off-Highway	5	8	8	6	8	7	7
Durability	8	8	9	5	8	10	10

RATING SCALE

Ride Quality — describes how well the suspension absorbs road shock as the truck encounters bumps, potholes, and other road irregularities.

9-10 Minimal bounce, fore/aft, and lateral movement

7-8 Some bounce, fore/aft, and lateral movement

4-6 Considerable bounce, fore/aft, and lateral movement

Mobility/Articulation — describes how well the suspension provides traction and maneuverability, especially the ability to maneuver over obstacles and avoid getting stuck.

9-10 Loaded cross articulation is greater than 12"

7-8 Loaded cross articulation is 8"-12"

5 Loaded cross articulation is 7"

Stability Off-Highway — describes how well the suspension resists vehicle leaning in lower speed operations on job sites, particularly during loading and unloading.

9-10 Comfortable to dump gravel or maneuver across steep grade

7-8 Comfortable to dump or maneuver across moderate grade.

5-6 Comfortable to dump or maneuver across level ground or shallow grade

Durability — describes the ability of a suspension to withstand rigorous operation over the life of the vehicle.

9-10 Designed for more than 50% off-highway operation fully loaded

7-8 Designed for 30-50% off-highway operation, fully loaded

4-6 Designed for 15-30% off-highway operation

* These ratings are intended for reference and comparison purposes only, and are not based on actual measurements. Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

HENDRICKSON GUIDELINES

Rubber or Bronze Center Bushing Applications (applicable to AR2, RT and RTE suspensions).

The use of rubber or bronze center bushings is dependent on a variety of factors dictated by the operating conditions and geographic location of the vehicle. These factors can best be determined by the prior experience of the operator. Our general guidelines are to be used for 34,000 lbs. to 52,000 lbs. capacity suspension applications in which such prior operator experience is limited.

- A. 34,000 lbs. Rubber 06664-000 — This the standard 34K bushing offered by Hendrickson. It is our most economical bushing, requiring no maintenance and providing satisfactory life for a variety of applications.
- B. 34,000 lbs. Bronze 30240-001 — This bushing can provide extended service life for tight cornering conditions. Proper preventive maintenance is required. Do not use transverse rods.

- C. 40,000 lbs. Rubber 49400-000 — This High Confinement Bushing is the standard 40K bushing offered by Hendrickson, providing excellent service life for a variety of applications without required maintenance.
- D. 46–52,000 lbs. Rubber 29483-005 — This bushing is designed specifically to stand up to higher capacities and severe service where maintenance is not performed at regular intervals. This bushing requires the use of transverse rods.
- E. 40-52,000 lbs. Bronze 30240-002 — This is the standard release bushing offered by Hendrickson, providing long service life in severe applications. Requires routine lubrication. Do not use transverse rods.

CAPACITY		ON-HWY	LOGGER	DUMP	TRANSIT MIXER	REFUSE PACKER	OFF-HWY
34,000 lbs.	Standard	A	A	A	B ²	B ²	B ²
	Optional	B ²	B ²	B ²	A ¹	A ¹	A ¹
40,000 lbs.	Standard	C	C	C	E ²	E ²	E ²
	Optional	E ²	E ²	E ²	C ¹	C ¹	C ¹
46,000–52,000 lbs.	Standard	E ²	E ²	E ²	E ²	E ²	E ²
	Optional	D ¹	D ¹	D ¹	D ¹		

¹ Transverse rods are mandatory with this option.

² Does not use transverse rods.

www.hendrickson-intl.com



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