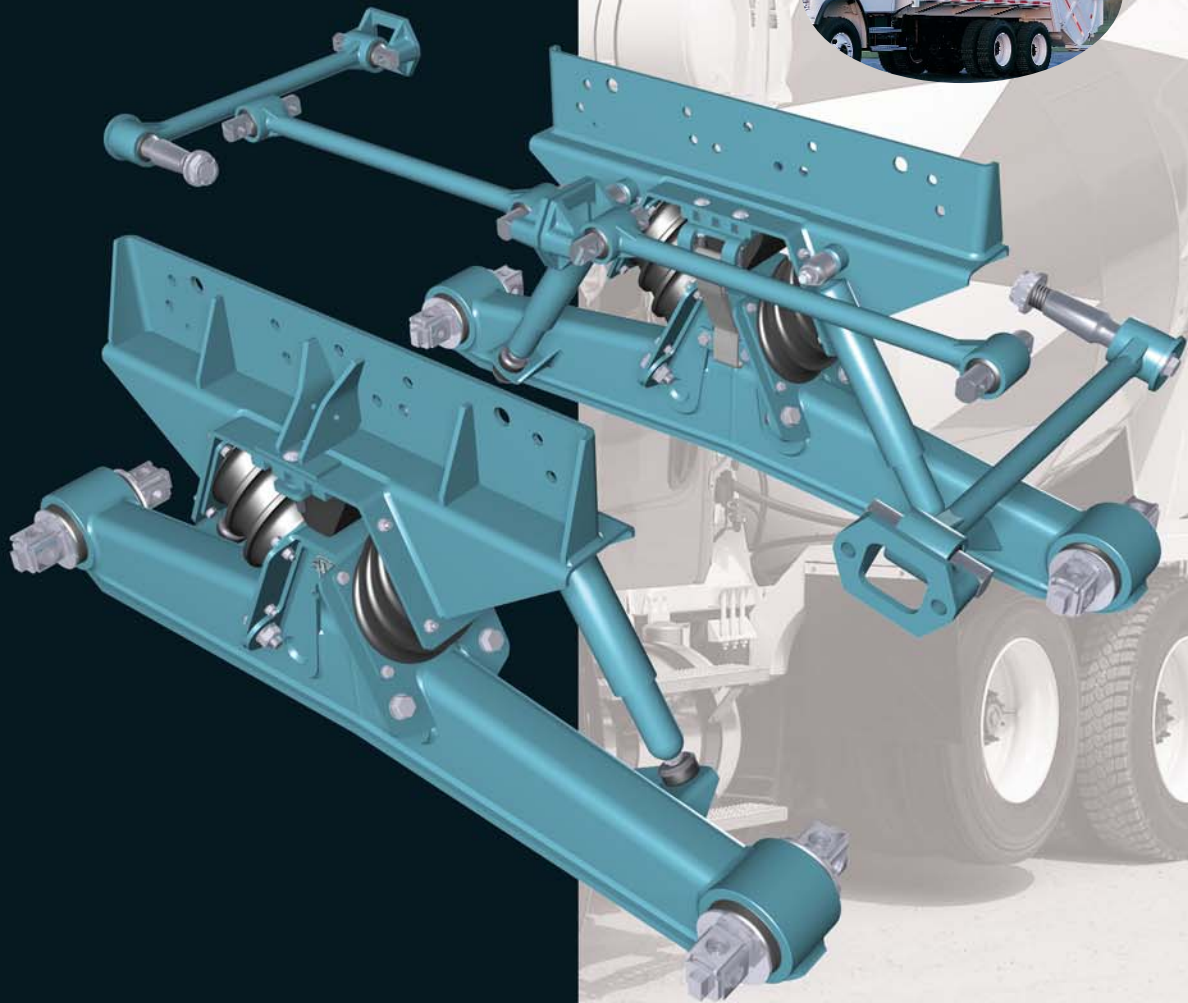


MAXIMIZE PAYLOAD

MAXIMIZE DRIVER COMFORT

MAXIMIZE DURABILITY

**H** **HN<sup>®</sup> SERIES**  
VariRate Spring System



*For The Road Ahead™*

**H** **HENDRICKSON**

# HN<sup>®</sup> SERIES

Lightweight for increased payload

## VARI RATE SPRING SYSTEM

Delivers a combination of superior stability, articulation and ride.

## RUBBER BOLSTER SPRINGS

- Lightweight, diagonally mounted rubber bolster springs deliver a smooth ride and outstanding articulation in empty or lightly loaded conditions
- Wide spring centers enhance stability and eliminate need for cross tube

## SADDLE

Weight-saving, high-strength design increases payload capacity and durability.

## ULTRA ROD<sup>®</sup>

- Improves 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

## BAR PIN END CONNECTION

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

## SHOCK ABSORBERS

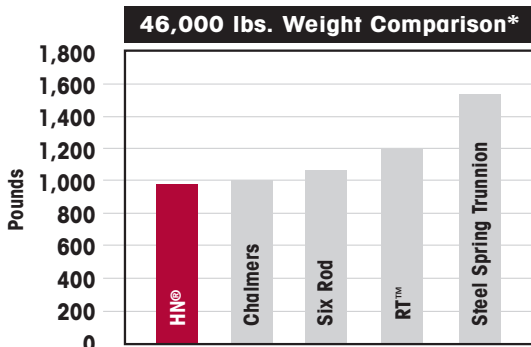
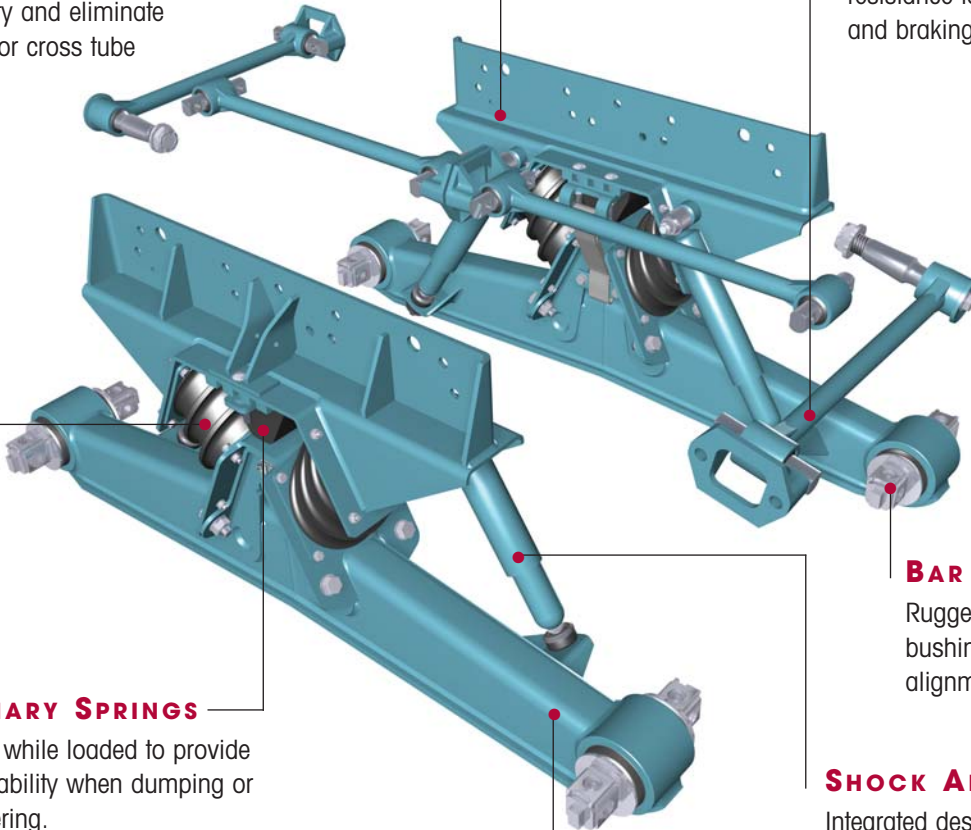
Integrated design reduces axle hop and enhances ride quality.

## AUXILIARY SPRINGS

Engages while loaded to provide added stability when dumping or maneuvering.

## EQUALIZING BEAM

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



\*OEM databook weights may vary.

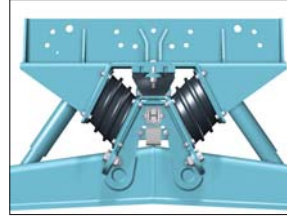
# MAXIMIZE DRIVER COMFORT AND CONFIDENCE

The heart of the HN® Series suspension is the VariRate spring system. In the empty or lightly loaded condition, the unique diagonally mounted rubber bolster springs deliver superior ride quality. Extra wide spring centers and the Hytrel® auxiliary springs provide outstanding stability under challenging conditions — especially when dumping or maneuvering while loaded. This innovative spring system allows the equalizing beam to pivot without lubricated or rubber center bushings. Subsequently, the HN Series suspensions reduce scheduled maintenance, which lowers operating costs.



Unloaded Condition

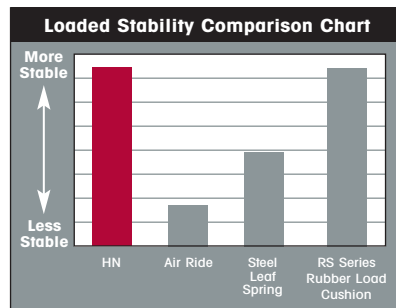
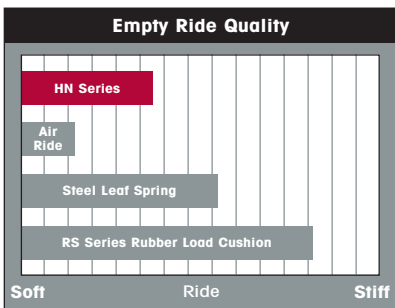
Diagonally mounted rubber bolster springs act in compression and shear to provide optimum spring deflection for outstanding ride quality.



Loaded Condition

As payload increases, the bolster springs compress and increase in stiffness, while maintaining excellent ride quality. When loaded, the Hytrel® auxiliary spring engages to provide additional stability.

# MAXIMUM RIDE AND STABILITY

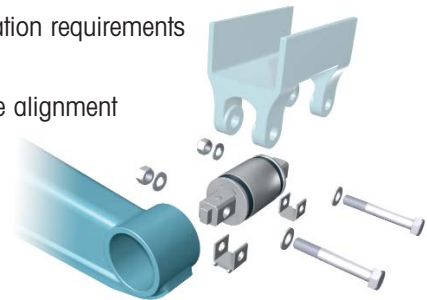


Combining empty ride quality with loaded stability, Hendrickson's VariRate Spring System outperforms other suspension systems.

# MAXIMIZE UPTIME

## Reduced Maintenance Through Advanced Design

- The robotically welded equalizing beam design eliminates center bushings and lubrication requirements — significantly reducing scheduled maintenance
- Hendrickson's unique bar pin beam end connection extends service life and offers axle alignment capability for accurate wheel tracking and improved tire life
- Ultra Rod®'s unique bonded bushing greatly increases its service life. By eliminating the outer metal sleeve, Hendrickson made rebushing faster and easier
- Hendrickson parts and service are available at thousands of locations worldwide



Bar Pin End Connection

# MAXIMIZE TRACTION

## Excellent Traction for Outstanding Off-road Mobility

The HN Series' unique combination of the equalizing beam and VariRate technology provides excellent traction on punishing job sites. When loaded, HN suspensions allow 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.

# HN<sup>®</sup> Series Specifications

	HN 402	HN 462	HN 522
Installed Weight <sup>1</sup> (54-in. axle spacing)	935 lbs.	948 lbs.	955 lbs.
Suspension Rating	40,000 lbs.	46,000 lbs.	52,000 lbs.
GVW Approval <sup>2</sup>	73,000 lbs.	80,000 lbs.	80,000 lbs.
GCW Approval	160,000 lbs.	190,000 lbs.	245,000 lbs.
Site Travel Rating <sup>3</sup>	55,000 lbs.	60,000 lbs.	65,000 lbs.
Diagonal Articulation <sup>4</sup>	17 inches	17 inches	17 inches
Lift Axles	Approved	Approved	Approved
Axle Spacing	52, 54, 60, 72.5 inches	54, 60, 72.5 inches	54, 60 inches
Wheel Base Restrictions	None	None	None

HN Series suspensions are intended for a wide range of applications, including dump, refuse, mixer and logging. If you have any questions, contact Hendrickson or your local truck dealer.

<sup>1</sup> Installed weight includes complete suspension, torque rods, axle brackets, shock absorbers and frame brackets.

<sup>2</sup> Contact Hendrickson for applications that may exceed GVW approval ratings.

<sup>3</sup> 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 5 percent of vehicle operation at speed not to exceed 5 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.

<sup>4</sup> Suspension articulation may exceed vehicle's capability and may be limited by vehicle manufacturer; vehicle manufacturer installed axle stops may restrict suspension's articulation.

**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.*

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

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

**HENDRICKSON**

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