

H HN SERIES
VariRate Spring System

NEED A

LIGHTWEIGHT

SUSPENSION

SUPERIOR

RIDING

MAINTENANCE

FREE?

For The Road Ahead

H HENDRICKSON

**HN SERIES WITH THE VARI RATE SPRING SYSTEM
DELIVERS PREMIUM PERFORMANCE FOR THE
TOUGHEST APPLICATIONS.**



For more than 80 years, Hendrickson has consistently met the needs

of vocational truck operators and fleets. We know in today's

competitive market, you need a suspension that delivers premium ride performance,

requires no maintenance, is lightweight, and does not sacrifice stability or durability.

These characteristics make our new HN Series an outstanding performer for dump,

refuse, ready-mix, logging, and many specialty applications.



The HN Series features our exclusive VariRate technology

that offers you premium ride quality – for driver comfort and equipment protection – and

outstanding stability while loaded. The VariRate spring system,

combined with our proven walking beam design, also provides

exceptional mobility under tough off-road conditions. The innovative HN Series design

eliminates center bushings and lubrication requirements, which reduces maintenance.

And, it is the lightest weight series of vocational suspensions available, which means more

payload and higher profits.

The HN Series is ideal for use with lift axles, including our



lightweight, compact ParaLift steerable or our full line of non-steer models.

HN SERIES. LIGHTWEIGHT FOR INCREASED PAYLOAD.
RIDE PERFORMANCE FOR DRIVER COMFORT, STABILITY
AND TRACTION. MAINTENANCE FREE FOR LOWER
OPERATING COSTS.

VARI-RATE SPRING SYSTEM.
Delivers a combination of superior stability, articulation, and ride

HN 402

RUBBER BOLSTER SPRINGS.

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

SADDLE.

Weight-saving design increases payload capacity.

REBOUND CONTROL STRAP.

Protects bolster spring from severe rebound tension.

**TORQUE RODS/
TRANSVERSE RODS.**

Enhance handling during braking and cornering.

AUXILIARY SPRING.

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

EQUALIZING BEAM.

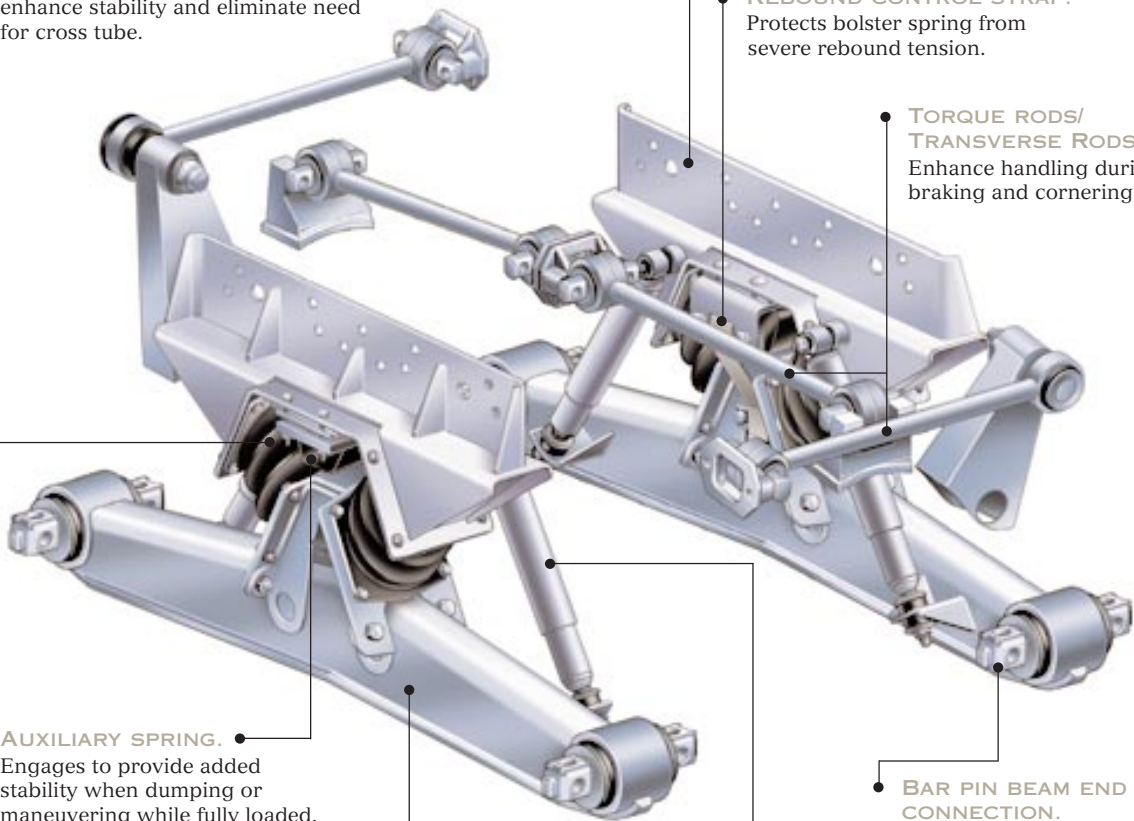
New, robotically-welded, boxed beam design delivers an extremely high strength to weight ratio.

SHOCK ABSORBERS.

Integrated design eliminates axle hop and enhances ride quality.

BAR PIN BEAM END CONNECTION.

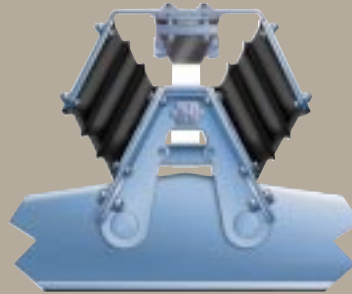
Extends service life and allows axle alignment capability for improved tire life.



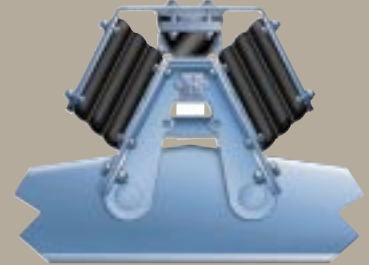
HENDRICKSON'S VARI RATE SPRING SYSTEM.

SUPERIOR SUSPENSION TECHNOLOGY.

The heart of the HN Series suspension is the VariRate spring system, an innovative bonded rubber spring and shock absorber system that provides a smooth comfortable ride for enhanced equipment protection and reduced fatigue – a plus in retaining



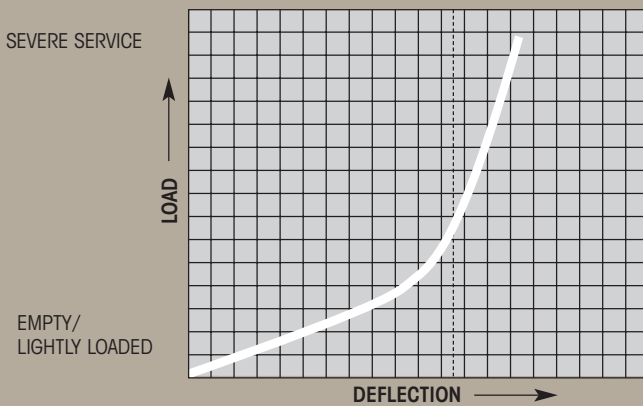
UNLOADED CONDITION.
Diagonally mounted rubber bolster springs act in compression and shear to provide optimum spring deflection for outstanding ride quality.



LOADED CONDITION.
As payload is increased, the bolster springs compress and increase in stiffness, while maintaining excellent ride quality. When fully loaded the Hytrex auxiliary spring engages, to provide additional stability.

good drivers. In the empty or lightly loaded condition, the unique diagonally mounted rubber bolster springs act in compression and shear to deliver superior ride quality. Extra wide spring centers and the Hytrex® auxiliary spring provide outstanding stability under challenging conditions – especially when dumping or maneuvering while fully loaded. Because

HN SERIES VARI RATE TECHNOLOGY



Flatter curve (high deflection) indicates smooth ride. Steep curve (low deflection) indicates stability.

this innovative spring system allows the equalizing beam to pivot without lubricated or rubber bushings, HN Series suspensions require no scheduled maintenance, which reduces your operating costs.

**17" OF LOADED DIAGONAL ARTICULATION FOR
OUTSTANDING OFF-ROAD MOBILITY.**

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

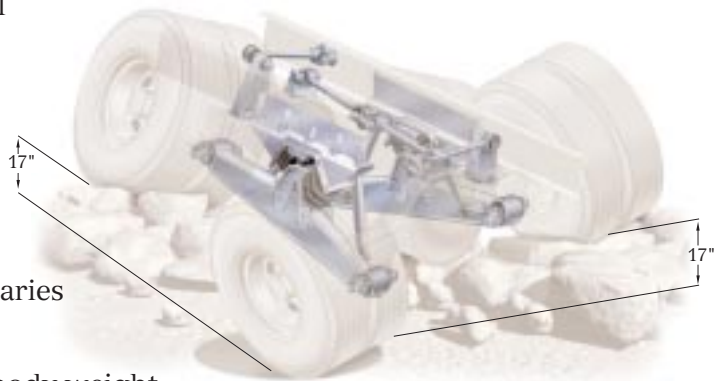
HN suspensions allow 17" of diagonal

wheel articulation to keep load on all

drive wheels, except when limited by

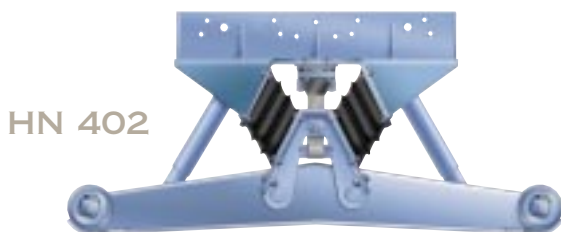
vehicle design. Unloaded articulation varies

with vehicle configuration and empty body weight.



HN 462

**HN SERIES SUSPENSIONS RATED TO 40,000 LBS.
AND 46,000 LBS. TO MEET YOUR REQUIREMENTS
FOR THE ROAD AHEAD.**

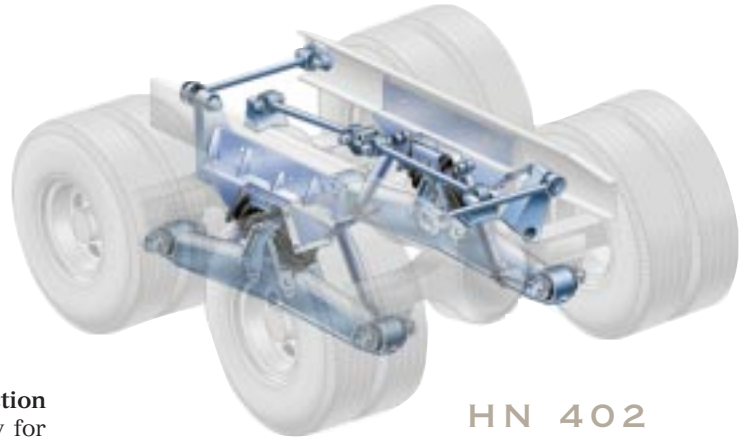
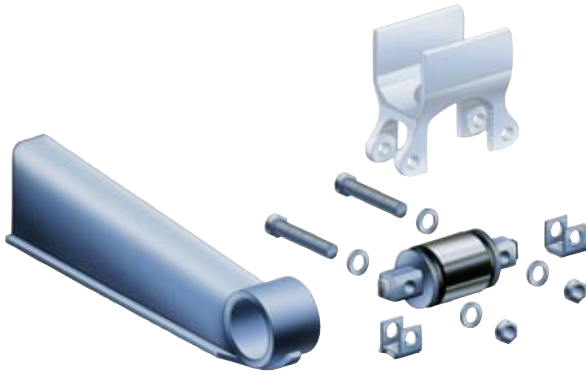


HN 402



HN 462

Hendrickson offers the HN 402, with a 40,000-lb. capacity and an installed weight of 920 lbs. The new 46,000-lb. capacity HN 462 features a more robust equalizing beam and installed weight of 933 lbs.



HN 402

Hendrickson's unique Bar Pin Beam End Connection extends service life and offers axle alignment capability for accurate wheel tracking and improved tire life.

SPECIFICATIONS	HN 402	HN 462
Installed Weight ¹ (54" axle spacing)	920 lbs.	933 lbs.
Suspension Rating	40,000 lbs.	46,000 lbs.
GVW Approval	73,000 lbs.	80,000 lbs.
GCW Approval	160,000 lbs.	190,000 lbs.
Site Travel Rating ²	55,000 lbs.	60,000 lbs.
Diagonal Articulation ³	17"	17"
Lift Axles	Approved	Approved
Axle Spacing	52", 54", 60", 72.5"	54", 60", 72.5"
Wheel Base Restrictions	None	None

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

¹ Installed weight includes complete suspension, torque rods, axle brackets, and frame brackets.

² **SITE TRAVEL RATING** – Operators using vehicles equipped with liftable tag or pusher axles must not exceed published ratings. Ratings are limited to no more than 5% of vehicle operation at speed not to exceed 5 mph.

Liftable tag or pusher axles should only be raised (or unloaded) to improve vehicle maneuverability in off-road use or when vehicle is unloaded.

Site travel ratings are consistent with published axle manufacturer's limitations. Axle and suspension site travel cannot be exceeded.

³ May be limited by vehicle manufacturer.



A Boler Company