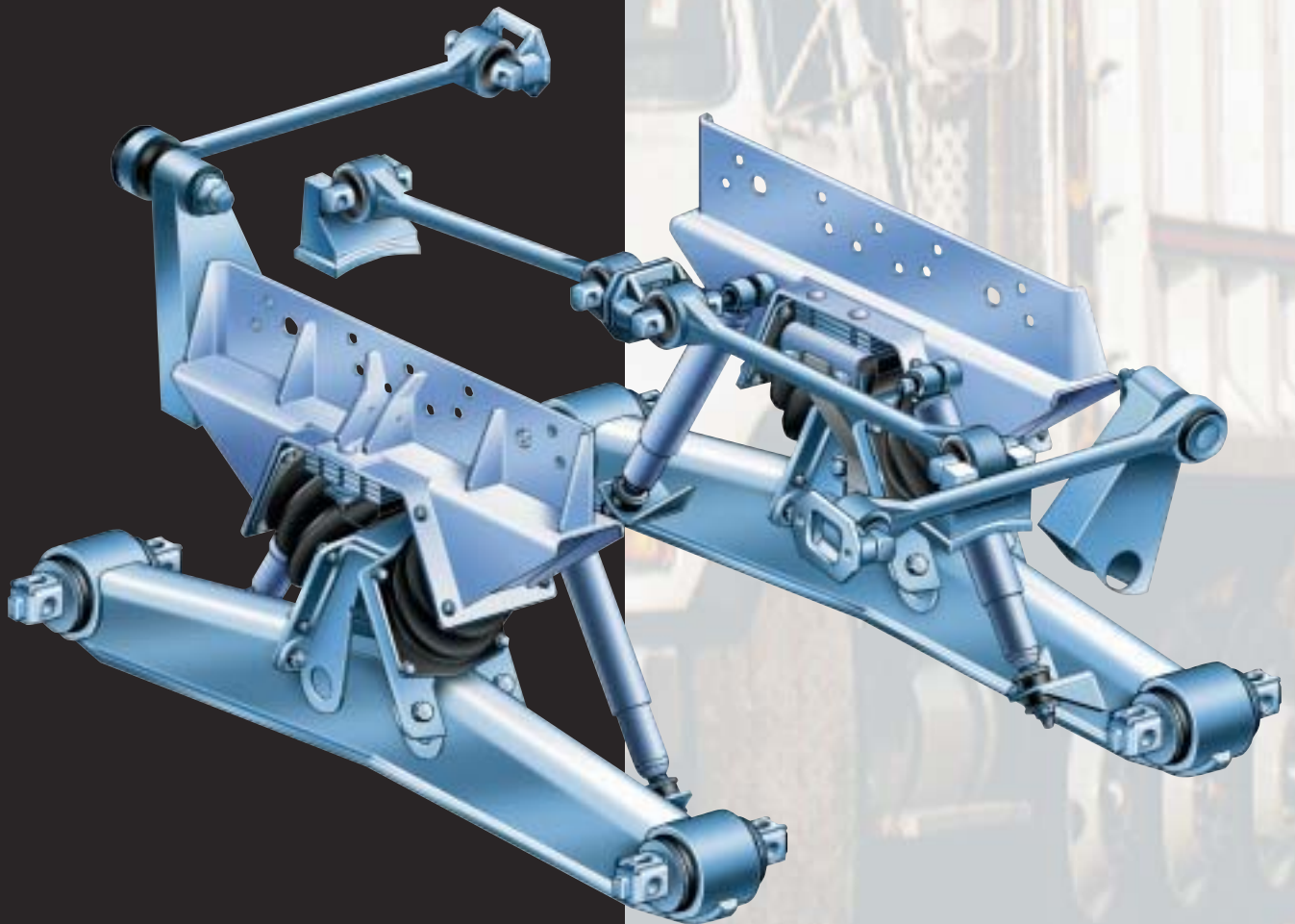


SUPERIOR

SUSPENSION

TECHNOLOGIES

H HN SERIES
VariRate Spring System



For The Road Ahead

H HENDRICKSON

HN SERIES

LIGHTWEIGHT FOR INCREASED PAYLOAD

HN 402

• 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.

• AUXILIARY SPRING •

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

• EQUALIZING BEAM •

New, robotically-welded, fabricated beam design distributes weight equally between both axles for improved traction, lowers the center of gravity to increase stability and provides a solid axle connection to improve handling.

• SADDLE

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

• REBOUND CONTROL STRAP

Protects bolster spring from severe rebound tension.

• ULTRA RODS™

Lightweight and durable Ultra Rods enhance handling during braking and cornering.

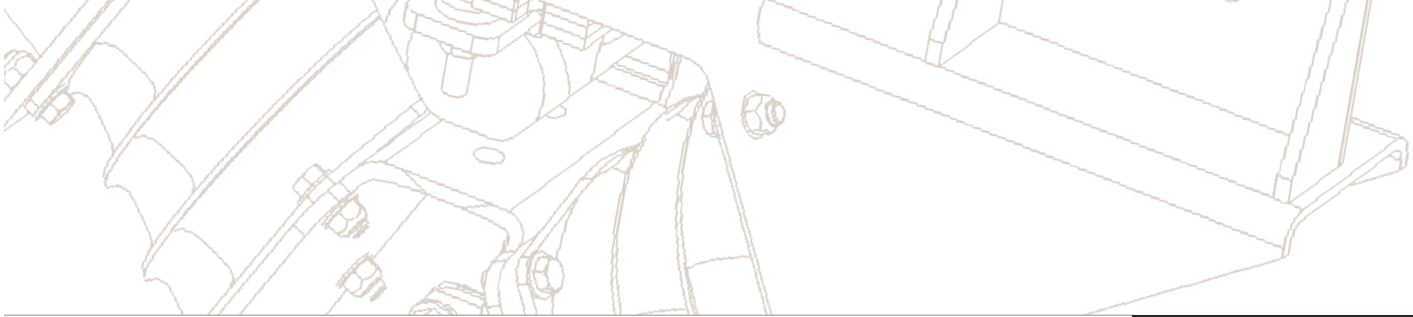
• BAR PIN BEAM END CONNECTION

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

• SHOCK ABSORBERS

Integrated design reduces axle hop and enhances ride quality.

HUNDREDS OF POUNDS LIGHTER THAN STEEL LEAF SUSPENSIONS



EXCELLENT TRACTION FOR OUTSTANDING OFF-ROAD MOBILITY

17" DIAGONAL
ARTICULATION

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.



HN 462

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

EXCELLENT DURABILITY WITH HENDRICKSON'S INNOVATIVE ULTRA ROD™ **

ULTRA ROD'S
UNIQUE BUSHING



Through computer optimized structural design, Hendrickson has reduced the Ultra Rod's weight and size as compared to conventional torque rods, while improving its structural integrity. Its unique bonded bushing greatly increases service life, and by eliminating the outer metal sleeve, Hendrickson has made rebushing faster and easier.

**See your local truck dealer for availability.

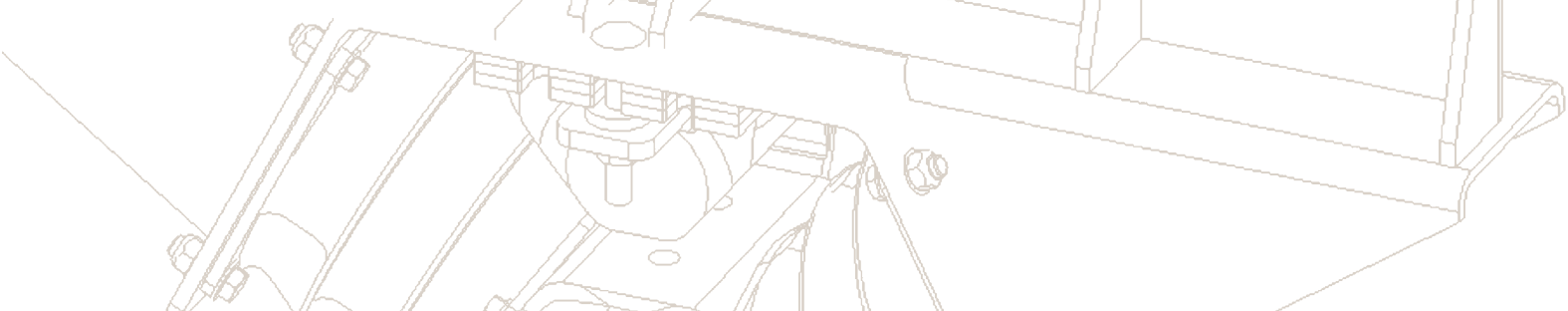


BONDED BUSHING

The exclusive Hendrickson bonded bushing outlasts conventional bushings to reduce maintenance.

EASY TO REBUSH

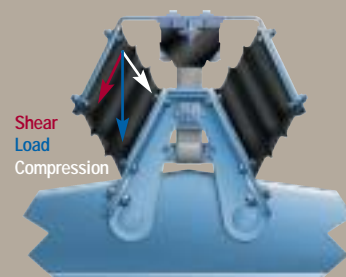
Rods are easy to rebush and can be used with existing rod inventory.



HENDRICKSON'S VARIRATE SPRING SYSTEM DELIVERS SUPERIOR RIDE AND STABILITY

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 spring 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.



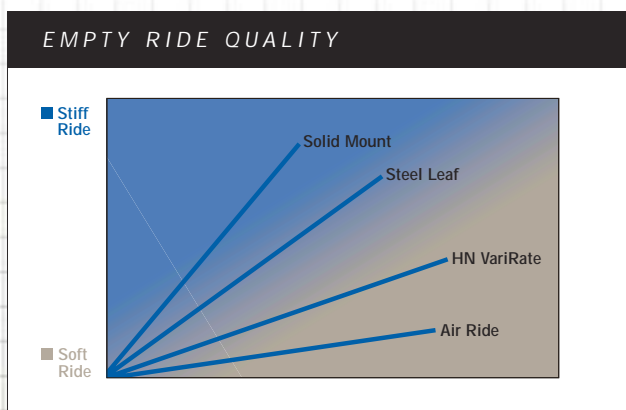
UNLOADED CONDITION

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

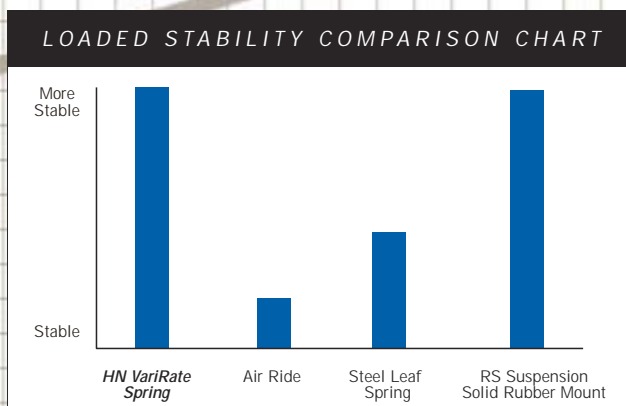


LOADED CONDITION

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.



Combining its Empty Ride Quality with Loaded Stability, Hendrickson's VariRate Spring System outperforms other suspension spring systems.

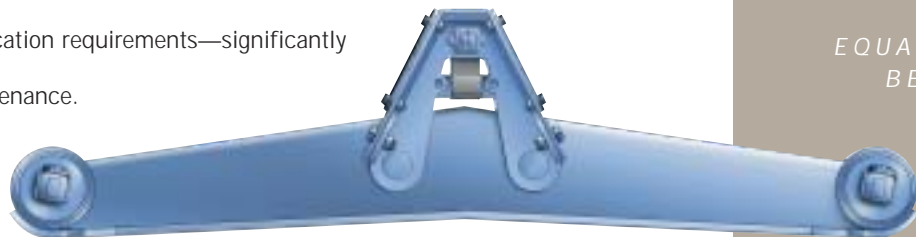




REDUCED MAINTENANCE THROUGH ADVANCED DESIGN

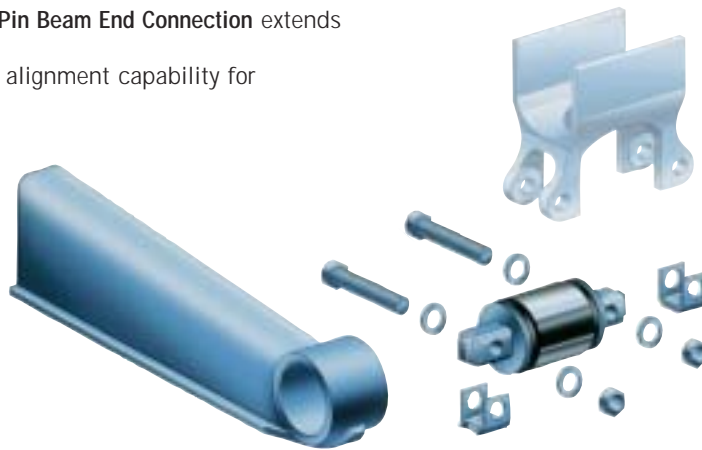
*INNOVATIVE
COMPONENTS*

The robotically-welded **Equalizing Beam** design eliminates center bushings and lubrication requirements—significantly reducing scheduled maintenance.



*EQUALIZING
BEAM*

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



*BEAM END
CONNECTION*

Ultra Rod's Unique Bonded Bushing greatly increases its service life. By eliminating the outer metal sleeve, Hendrickson has made rebushing faster and easier.



ULTRA ROD

*HENDRICKSON PARTS AND SERVICE AVAILABLE
AT THOUSANDS OF LOCATIONS WORLDWIDE*

HN SPECIFICATIONS

	HN 402	HN 462	HN 522
Installed Weight ¹ (54" axle spacing)	935 lbs.	948 lbs.	955 lbs.
Suspension Rating	40,000 lbs.	46,000 lbs.	52,000 lbs.
GVW Approval ²	73,000 lbs.	80,000 lbs.	80,000 lbs.
GCW Approval	160,000 lbs.	190,000 lbs.	245,000 lbs.
Site Travel Rating ³	55,000 lbs.	60,000 lbs.	65,000 lbs.
Diagonal Articulation ⁴	17"	17"	17"
Lift Axles	Approved	Approved	Approved
Axle Spacing	52", 54", 60", 72.5"	54", 60", 72.5"	54"
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.

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

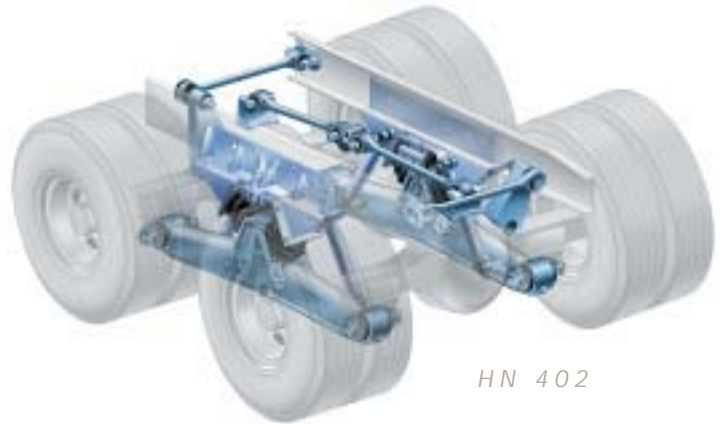
² Contact Hendrickson for applications that may exceed GVW approval ratings.

³ **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.

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.



HN 402

Information contained in this literature was accurate at the time of publication. Product changes may have been made after the copyright date that are not reflected.

