

Global Ride Solutions

for
**ENGINEERED
EFFICIENCY™**

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H HENDRICKSON
The World Rides On Us®

Hendrickson is a leading global manufacturer and supplier of medium- and heavy-duty mechanical, elastomeric and air suspensions; integrated and non-integrated axle and brake systems; tire pressure control systems; auxiliary lift axle systems; parabolic and multi-leaf springs; stabilizers; bumpers; and components to the global commercial transportation industry. Everyday around the world, millions of Hendrickson suspensions carry countless loads of freight and raw materials both on- and off-highway. We supply durable, lightweight, high-performing suspension systems and components to the major North and South American, European, Asian and Australian medium- and heavy-duty truck and trailer OEMs and fleets. Hendrickson's growing global position in the commercial transportation industry and its on-going drive to provide products and services benefits truck and trailer manufacturers, fleets and owner operators around the world. Our tagline, ***The World Rides On Us®***, not only reflects the spirit of the brand but also Hendrickson's 100 plus years of engineering for efficiency.



for ENGINEERED EFFICIENCY™

ADVANCED RESEARCH AND DEVELOPMENT

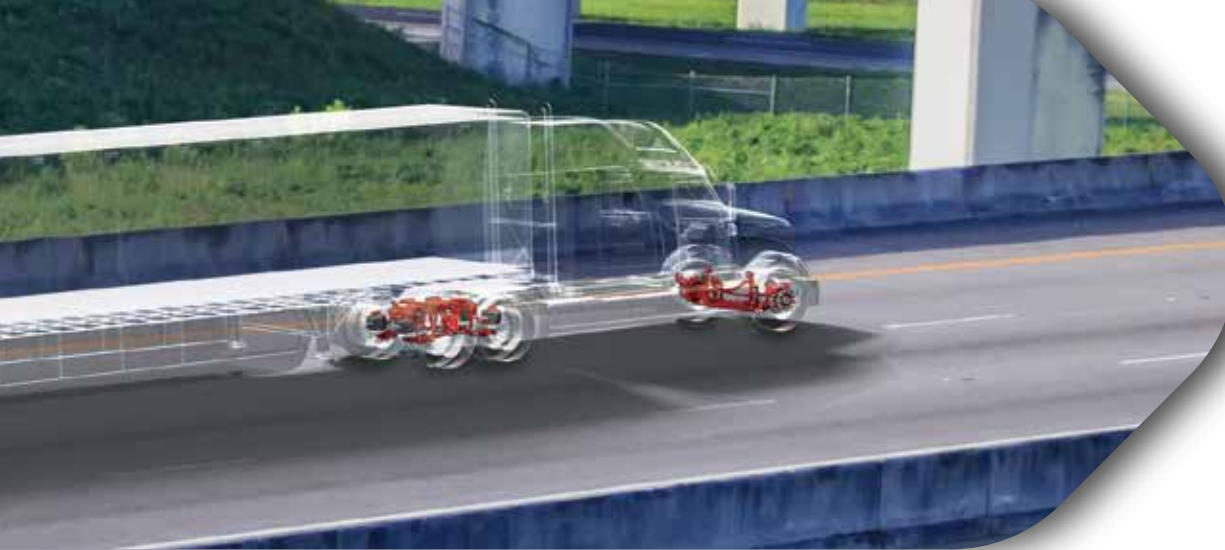
Hendrickson's entrepreneurial spirit has led to a series of valuable "firsts" that have changed the industry and inspired growth. From production of our first tandem walking-beam suspension to the innovative designs of today's ULTIMAAX® advanced severe-duty vocational truck suspension and ULTRAA-K® axle / air slider suspension system, Hendrickson's approach to research and development continues to drive innovation. Hendrickson's **Engineered for Efficiency™** philosophy drives next generation technology for suspensions and components that integrate with emerging intelligent vehicles in the medium- and heavy-duty trucking industry. Elements including brakes, remote sensors, wheel-ends and pneumatic controls hold tremendous promise for the trucks and trailers of tomorrow. Engaging and energizing the global trucking community, Hendrickson remains at the forefront in the development of superior and unique suspensions and components that deliver value to our customers.



INNOVATIVE PRODUCT DEVELOPMENT

Hendrickson does not just innovate for innovation's sake, we innovate for functional superiority. Help minimize costs and maximize payloads with Hendrickson medium- and heavy-duty truck, tractor and trailer suspension systems; lift axle systems; truck and trailer axles and components; brakes; tire pressure control systems; bumpers; springs and stabilizers. Hendrickson develops ride solutions that are engineered and manufactured for durability and weight savings, reinforcing efforts by fleets and owner operators to help lower maintenance costs and boost the resale value of their vehicles. Hendrickson works closely with fleets and commercial truck and trailer manufacturers around the globe to advance new product development and support the industry's expanding requirements.





OUTSTANDING CUSTOMER SERVICE

Our customers demand and deserve quality service.

The World Rides On Us® symbolizes our commitment to the customer. At Hendrickson that commitment begins early and runs deep. It starts by providing OEMs advanced engineering services to assist in the design, development and testing of equipment specific to their applications.

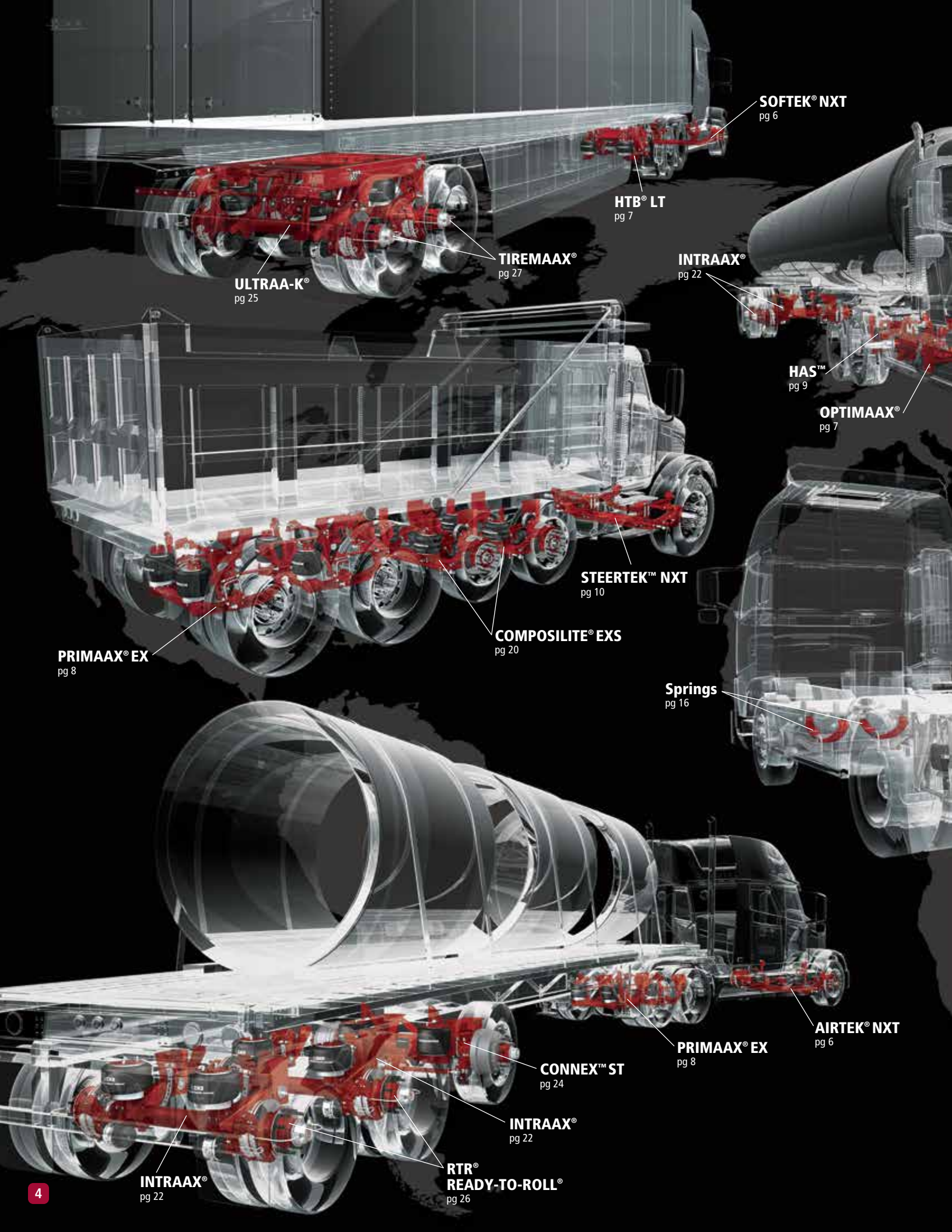
We support our products through extensive technical support and training services to help ensure the proper installation, operation, service and maintenance of Hendrickson equipment and aftermarket components. Under the Hendrickson PRO-GENUINE™ affiliation program, we provide comprehensive product training, ongoing technical support and marketing-related services to assist professional truck service providers to ensure customer satisfaction. Whether it's Hendrickson Genuine Parts or original Hendrickson components, we stand behind our products and components every step of the way.



OUTREACHING GLOBAL NETWORKS

Wherever a customer is in need, Hendrickson is there. Our **Engineered for Efficiency™** philosophy spans our global network of operations and employees. Hendrickson is prepared to provide and support cost-effective ride solutions to meet the world's demands. We presently have sales and distribution facilities and / or state-of-the-art manufacturing centers in the U.S., Mexico, Canada, Colombia, United Kingdom, Germany, Austria, Romania, France, Poland, Turkey, India, China, Japan, Thailand, South Africa, Australia and New Zealand. Collectively, these facilities give Hendrickson the reach to service the entire commercial vehicle market and create a network that is truly global.

HENDRICKSON
The World Rides On Us®



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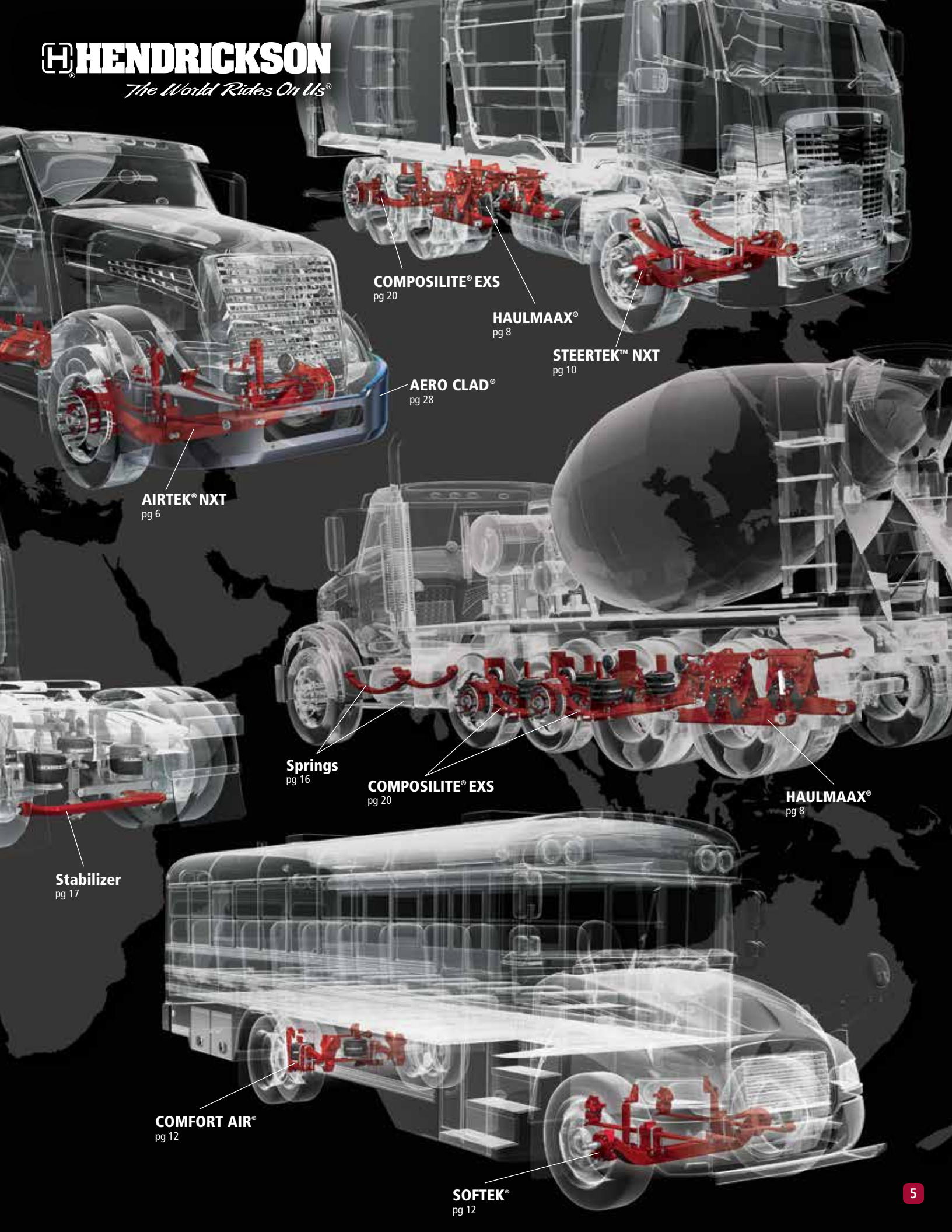
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ON-HIGHWAY

SUSPENSION SYSTEMS

STEERTEK™ NXT

Fabricated steer axle for on-highway applications

- Designed as a platform for OEM proprietary and next generation front axle / suspension systems
- Fabricated axle assembly for lightweight design
- Box shaped cross-section is more rigid than traditional I-beam axles
- Two-piece knuckle reduces maintenance and downtime
- Standard 10-year limited warranty*
- Compatible with drum and disc brakes
- Also available with integrated air disc brake knuckle for additional weight savings (12,500 - 13,200 lb. capacity)
- Capacity up to 14,600 lbs.



* Warranty applies to US and Canada applications only. Contact your local Hendrickson representative for complete warranty terms, conditions and limitations.

AIRTEK® NXT

Next generation integrated front air suspension and fabricated steer axle system

- Combines STEERTEK™ NXT axle and air suspension technology with an advanced integrated clamp group design
- Provides superb ride, driver comfort and roll stability
- Up to 131 lbs. weight savings
- Compatible with drum and disc brakes
- Capacities of 12,500 to 13,300 lbs.



AIRTEK®

Integrated front air suspension and fabricated steer axle system

- Integrated design provides superb ride, driver comfort and roll stability compared to traditional two-leaf spring suspension
- Up to 97 lbs. weight savings
- Exclusive STEERTEK™ NXT axle for increased roll stiffness
- Integrated axle seat to improve ground clearance and reduce part complexity
- Compatible with drum and disc brakes
- Capacities of 12,500 to 14,600 lbs.



SOFTEK® NXT

Integrated monoleaf suspension and steer axle system

- Combines STEERTEK™ NXT axle and monoleaf technology with an advanced integrated clamp group design
- Saves over 100 lbs. vs. traditional two-leaf spring and I-beam axle systems
- Also available with integrated air disc brake knuckle for additional weight savings
- Capacities of 12,500 to 13,200 lbs.



HAS™ Series

Tandem axle air suspension

- Suitable for on-highway applications that require up to 25 percent off-highway travel
- Excellent ride quality
- Lightweight design
- Capacities of 40,000 and 46,000 lbs.



HTB® LT

Lightweight, non-torque reactive, on-highway, rear air suspension

- Weight savings of up to 305 lbs. compared to other 40,000 lb. capacity suspensions
- Non-torque reactive suspension maintains driveline pinion angles and significantly controls frame rise
- Large-volume air springs support the entire load to create a superior ride experience
- Unique, maintenance-free torque box system improves multi-axial stability and control
- Capacity of 40,000 lbs.



OPTIMAAX®

Liftable forward tandem axle and suspension system

- Saves over 350 lbs. and can help improve fuel economy by 3–5 percent vs. 6×4 configurations
- Designed for variable load carriers such as bulk haulers, grocery, livestock, beverage or applications experiencing empty back hauls
- Includes integrated lift axle, suspension and automated controls
- Compatible with drum and disc brakes
- Capacity of 20,000 lbs.



COMFORT AIR®

Rear air suspension designed for passenger and driver comfort in various on-highway applications

- Main support member designed for optimized roll stiffness and handling
- Air springs adjust to changing road conditions to deliver superior ride quality
- Capacities ranging from 15,000 to 23,000 lbs. (single axle), 40,000 to 46,000 lbs. (tandem axle)

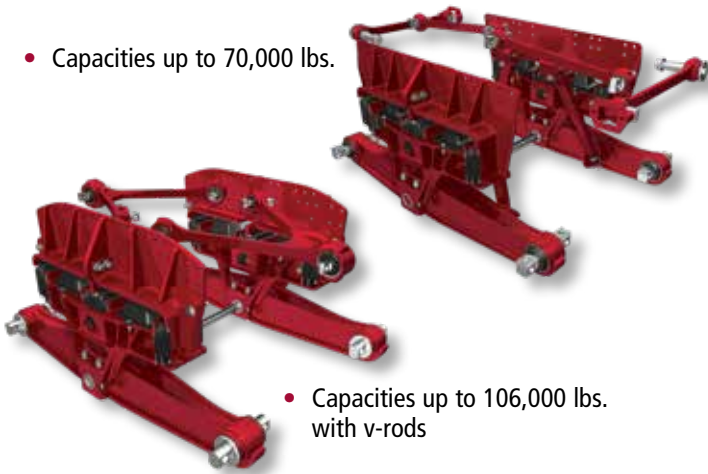
VOCATIONAL / HEAVY-HAUL

SUSPENSION SYSTEMS

ULTIMAAX®

Advanced severe-duty rubber suspension

- Recommended for dump, logging, refuse, mixer, oil field and mining applications
- Optimized design to balance robust durability and weight savings
- Progressive load springs provide a unique balance of unloaded ride quality and loaded stability
- Fabricated walking beam design equalizes axle loading while providing optimal clearance, axle travel and weight



- Capacities up to 106,000 lbs. with v-rods

HAULMAAX®

Heavy-duty lightweight rubber suspension

- Hundreds of pounds lighter than competitive suspensions
- Provides superior combination of empty ride and loaded stability
- Reduced maintenance with fewer bushings and no lubrication requirements
- Up to 17 in. of diagonal articulation for greater work site mobility
- Recommended for dump, refuse, mixer, logging and military applications
- Capacities of 40,000 and 46,000 lbs.



PRIMAAX® EX

Severe-duty vocational air suspension

- Ideal for dump, logging, refuse, mixer, crane, oil field, military and heavy-haul applications
- Optimized configuration helps improve handling and roll stiffness for expanded 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-highway use
- Up to 12.5 in. of diagonal wheel articulation for superior mobility
- Capacities of 23,000 and 26,000 lbs. (single axle), 46,000 and 52,000 lbs. (tandem axle) and 69,000 and 78,000 lbs. (tridem axle)



HN®

Heavy-duty rubber suspension

- Applications include dump, refuse, mixer, logging and military
- 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.





HAS™ (402,460)

Tandem axle air suspension

- Suited for both on- and off-highway applications
- Large-volume air springs deliver excellent ride quality and cargo protection
- Approved for up to 25 percent off-highway use
- Approved for use with lift axles
- Optional inboard shocks available
- Capacities of 40,000 and 46,000 lbs.



AIRTEK® NXT

Integrated front air suspension and fabricated steer axle system for truck crane applications

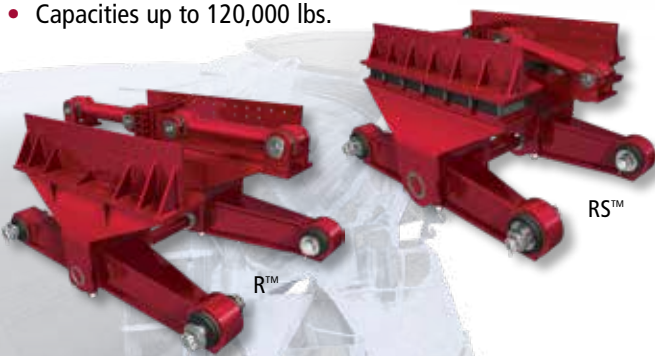
- Single or twin front steer featuring STEERTEK™ NXT axle
- Trailing or leading arm configuration
- Up to 52 in. axle spacing
- Capacities up to 26,000 lbs. (single axle) and 52,000 lbs. (tandem axle)



R™ / RS™

Severe-service, walking-beam suspensions

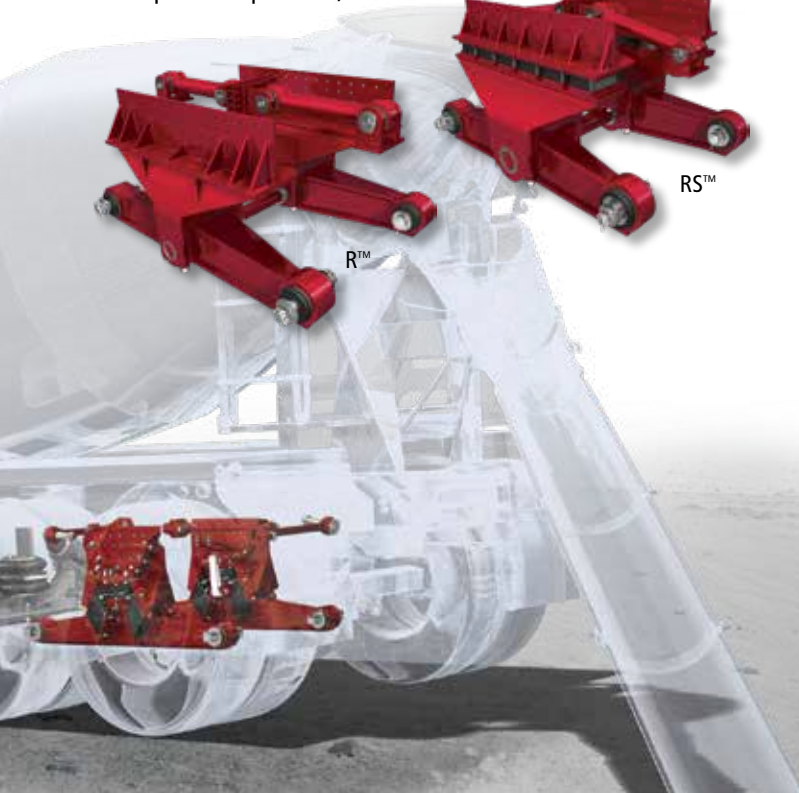
- Exceptional performance in mining, oil field, mixer, refuse, logging and other specialty applications
- R solid mount is an extra heavy-duty suspension where maximum roll stability is essential
- RS rubber load cushions absorb shock and provide high stability for severe-service applications
- Capacities up to 120,000 lbs.



ROADMAAX™

Rear air suspension system for truck crane applications

- Up to 72 in. axle spacing
- Eliminates torque rods for lower maintenance
- Capacities up to 30,000 lbs. (single axle) and 60,000 lbs. (tandem axle)



VOCATIONAL / HEAVY-HAUL

SUSPENSION SYSTEMS

FIREMAAX® EX

Heavy-duty air suspension for fire and rescue applications

- Improved ride for firefighter comfort and equipment protection
- Superior handling for greater driver control during lane changes and tight road maneuvers
- Integrated stabilizer design results in greater stability compared to other air suspensions
- Dual height control valves maintain proper suspension ride height for shifting or uneven loads
- Capacities of 24,000, 27,000 and 31,000 lbs. (single axle) and 48,000, 54,000 and 62,000 lbs. (tandem axle)



HN® FR

Heavy-duty rubber suspension for fire and rescue applications

- Ratings approved for fire and rescue applications
- VARIRATE® spring system delivers the ideal combination of stability, ride quality and articulation
- Equalizing beams distribute load equally between both axles for improved traction
- System can be tailored to meet the specific needs of unique vehicle applications
- Capacities of 42,000, 48,000, 54,000 and 58,000 lbs.



ROADMAAX™

Heavy-duty air suspension for fire and rescue applications

- Main support member designed for optimized roll stiffness and handling
- Air springs adjust to changing road conditions for improved ride for firefighter comfort and equipment protection
- Featuring TRAAX ROD™ torque rods for exceptional performance life
- Capacity of 35,000 lbs.



STEERTEK™ NXT

Fabricated front steer axle for heavy-duty applications

- Designed as a platform for OEM proprietary and next generation front axle and suspension systems
- Fabricated axle assembly for lightweight design
- Box shaped cross-section is more rigid than traditional I-beam axles
- Withstands increased brake torque requirements resulting from 2011 F.M.V.S.S. stopping distance regulations
- Compatible with drum and disc brakes
- Capacities ranging from 15,430 - 24,250 lbs.



PARASTEER™ HD

Single- twin- and tri-steer axle air suspension

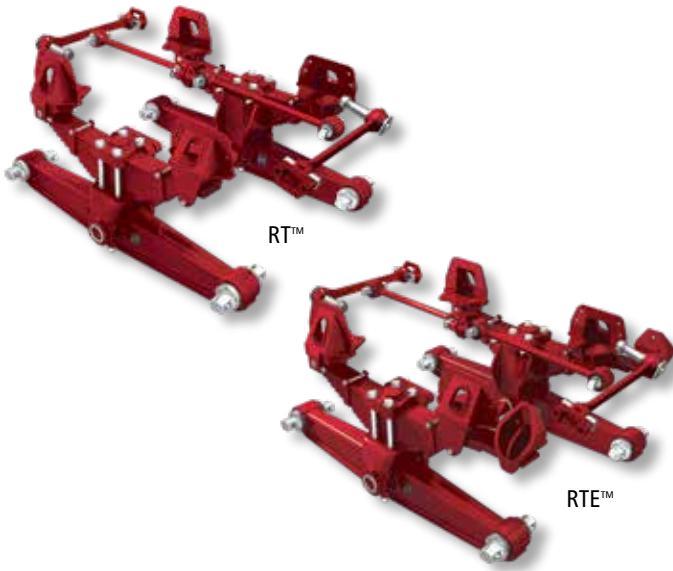
- Applications include crane, concrete, oil field and specialty
- No fixed steer axle spacing constraints, providing excellent axle spacing flexibility
- Air springs equally support one hundred percent of the vertical load for excellent ride quality
- Kneeling capability for improved driver ingress / egress
- System weight remains constant as steer axle spacing increases
- Heavy-duty rubber bushings require no lubrication
- Capacities of 14,600 - 20,000 lbs. per axle



RT™/RTE™

Durable steel leaf spring, walking-beam suspensions

- Well suited for dump, refuse, mixer, mining and military applications
- Proven reliability for over 85 years
- RTE features extended leaf spring for improved unloaded ride quality and loaded stability
- RT capacities up to 65,000 lbs. and RTE capacities up to 50,000 lbs.



AR2™

Original equipment or aftermarket replacement 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-highway applications
- Capacities of 40,000 and 46,000 lbs.



COMFORT AIR®

Heavy-duty air suspension

- Main support member designed for optimized roll stiffness and handling
- Air springs adjust to changing road conditions to deliver superior ride quality
- Featuring TRAAX ROD™ torque rods for exceptional performance life
- Capacities of 26,000 lbs. (single axle), 42,000 and 52,000 lbs. (tandem axle)



TRUCK / BUS / MOTORHOME

SUSPENSION SYSTEMS

AIRTEK®

Integrated front air suspension and steer axle system designed for comfort and improved performance

- High-volume air springs provide superb ride and driver comfort
- Low maintenance design helps keep trucks, buses and motorhomes on the road
- Up to 55 degrees of wheel cut greatly improves maneuverability
- Capacities ranging from 10,000 to 14,600 lbs.



SOFTEK®

Integrated front mechanical suspension and steer axle system designed for passenger and driver comfort

- Highly engineered for optimized ride and performance
- Robust design for high durability and low maintenance
- Efficient design contributes to a smooth and quiet ride
- Optimized steering performance delivers up to 55 degrees of wheel cut
- Capacities ranging from 8,000 to 14,600 lbs.



HAS™ Single-Axle

Rear air suspension

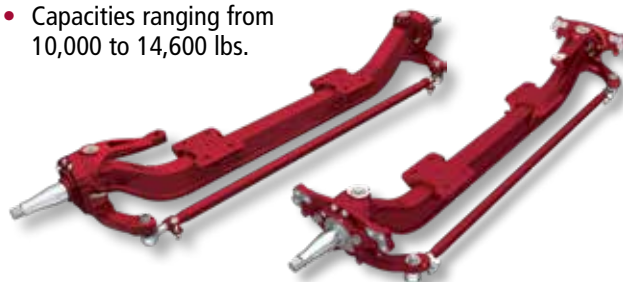
- Range of models for medium-duty tractors, pick-up / delivery, beverage, bus and motorhome applications
- Excellent ride quality
- Low ride heights available
- Capacities ranging from 12,000 to 23,000 lbs.



STEERTEK™ NXT

Fabricated steer axle for on-highway applications

- Designed as a platform for OEM proprietary and next generation front axle / suspension systems
- Fabricated axle assembly for lightweight design
- Box shaped cross-section is more rigid than traditional I-beam axles
- Two-piece knuckle reduces maintenance and downtime
- Standard 10-year limited warranty*
- Compatible with drum and disc brakes
- Also available with integrated air disc brake knuckle for additional weight savings (12,500 - 13,200 lb. capacity)
- Capacities ranging from 10,000 to 14,600 lbs.



* Warranty applies to US and Canada applications only. Contact your local Hendrickson representative for complete warranty terms, conditions and limitations.

HTS™

Single drive-axle, spring suspension system

- Frame hanger is lightweight and designed for maximum durability
- Horizontal torque rod absorbs braking and acceleration forces
- Wide axle seats with heavy-duty U-bolts for secure connection
- Shock absorbers provide additional driver comfort
- Capacities up to 31,000 lbs.



COMFORT AIR®

Single-axle, rear air suspension designed specifically for cut-away and speciality vehicles

- Optimized configuration provides improved driver feel for increased handling and confidence when performing maneuvers
- Designed to achieve 3.5 in. of kneel
- Designed to reduce roll forward during kneeling operation
- Capacity up to 10,000 lbs.



COMFORT AIR®

Single-axle, rear air suspension designed for passenger and driver comfort in various medium-duty truck, bus, ambulance and motorhome applications

- Wide footprint of frame hanger reduces stress to the frame
- Suspension geometry improves ride and handling
- Capacities ranging from 15,000 to 23,000 lbs.



PRIMAAX® / PRIMAAX® EX

Revolutionary air suspension system

- Suitable for tractor and rigid applications
- Non-reactive to brake and acceleration torque
- Roll-resistant design simplifies installation and maintenance
- Superior ride and handling provide enhanced driver comfort and protection to vehicle loads and body
- Single-axle capacities up to 26,000 lbs.



HTB®

Single-axle, rear air or mechanical suspension designed for stability and ride comfort

- Available in both air and mechanical configurations
- Patented torque box system[▲] provides roll stability and lateral / longitudinal control
- Flexible design balances roll stiffness and articulation without compromising ride performance
- Capacities up to 22,000 lbs. for air configurations and 17,500 lbs. for mechanical configurations

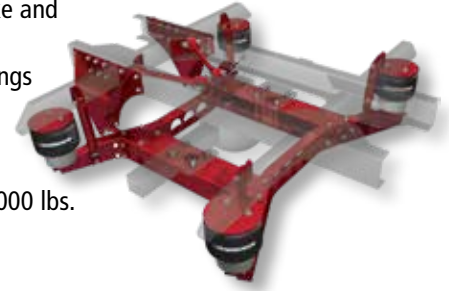


[▲] This product is covered by at least one or more U.S. and/or foreign patents and/or pending U.S. and/or foreign patent applications. See Hendrickson for details.

LUXAIR™

Premium lightweight drive axle air suspension for transit and coach bus applications

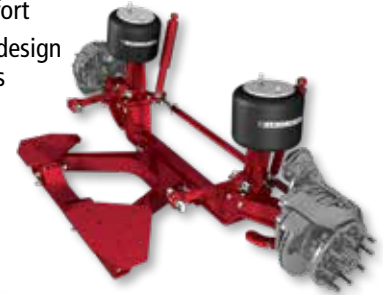
- Robust fabricated construction for exceptional reliability in various road conditions
- Multiple shock and air spring combinations available
- Non-reactive to brake and drive torque
- High volume air springs provide outstanding level of passenger comfort
- Capacities up to 31,000 lbs.



AIRTEK®

Integrated front air suspension and steer axle system designed for transit bus applications

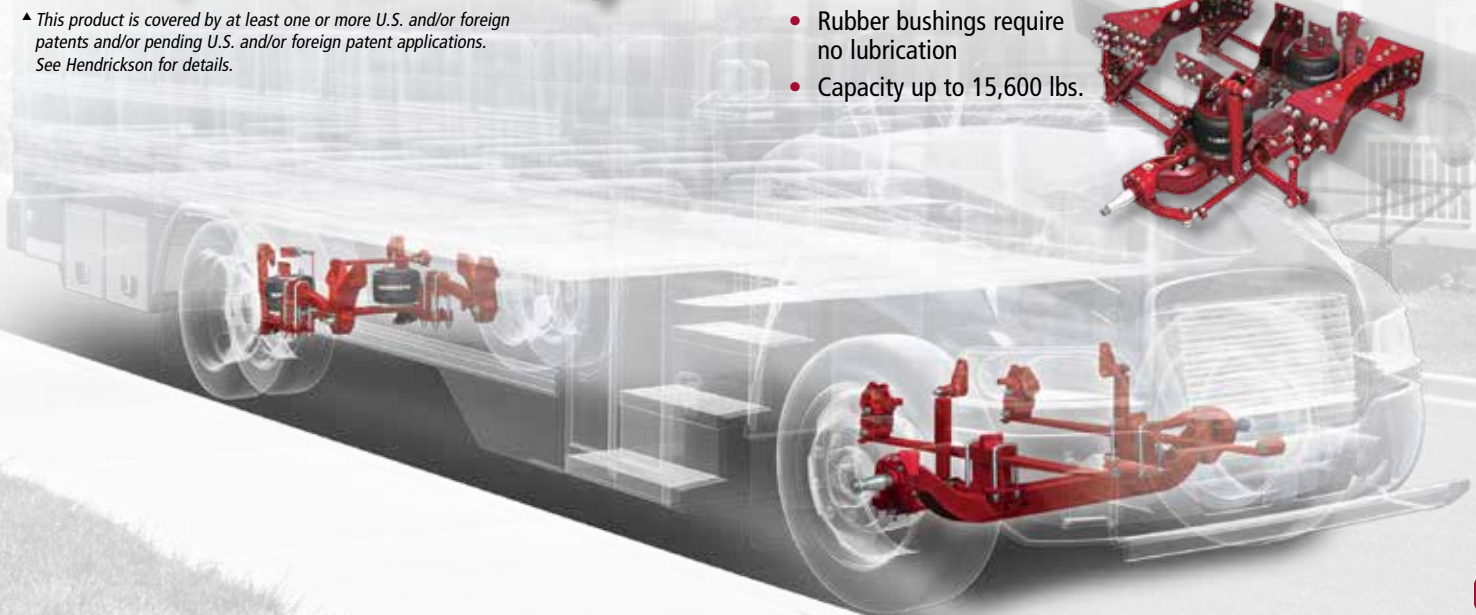
- High-volume air springs provide superb ride along with passenger and driver comfort
- Unique integrated system design achieves lower ride heights to ease passenger entry and exit
- Capacities ranging from 16,000 to 20,000 lbs.



PARASTEER™

Front axle air suspension system designed specifically for bus and motorhome applications

- Four-bar parallelogram linkage provides outstanding ride, steering and handling qualities
- Rubber bushings require no lubrication
- Capacity up to 15,600 lbs.



MILITARY

SUSPENSION SYSTEMS

For over a century, Hendrickson's products have carried countless loads of freight and raw materials both on- and off-highway. Our expertise as a global manufacturer and supplier of heavy-duty suspensions doesn't stop there – based on our commercial vehicle suspension technology, we also supply products for robust military vehicles that support and protect armed forces around the world.

Hendrickson has supported military applications for over 80 years through various programs including the M915 and M916 tractors and the HEMTT, HET, PLS, MVT, MTRV, LVSR, MRAP, HMMWV and the Army Heavy Dump Truck vehicles.

Through our experience and strengths in design and development, we understand that each military application is demanding, and thus, requires proven technology. Our involvement early in the process enables Hendrickson to deliver reliable, durable and innovative suspension systems to help support and protect those who protect us.

PRIMAAX® EX

Severe-duty vocational air suspension

- Optimized geometry contributes to high roll stiffness characteristics
- Axle connection and torque rods help reduce torsional axle stress and driveline vibration
- Large-volume, low frequency air springs help smooth the ride in rugged conditions
- Up to 12.5 in. of diagonal wheel articulation for superior mobility
- Capacities of 23,000 and 26,000 lbs. (single-axle), 46,000 and 52,000 lbs. (tandem-axle) and 69,000 and 78,000 lbs. (tridem-axle)



HPAS™

High performance air suspension

- Complete ride height with spring damper control system, improves vehicle handling and increases roll stability
- Reduced packaging size and easy vehicle retrofit packages
- Debris and environmental resistance
- Provides raising and lowering capability
- Multiple ride height capability
- Adaptable to multiple load range requirements, increasing payload capability while maintaining ride quality at all load ranges and multiple axle combinations



HAULMAAX® / ULTIMAAX®

Heavy-duty and severe-duty rubber suspensions

- Load springs offer tremendous roll stability for vehicles traveling in harsh environments and are adjustable to help improve ride quality for different body and equipment configurations
- Up to 17 in. of diagonal articulation helps keep the axle in traction for greater off-highway mobility
- Reduced maintenance with fewer bushings and no lubrication requirements
- Systems can be tailored to meet the specific requirements for frame width, ride height and axle spacing for unique vehicle applications
- HAULMAAX® heavy-duty suspension is available in tandem capacities up to 46,000 lbs. — ULTIMAAX® severe-duty suspension is available in capacities up to 105,000 lbs.



HAULMAAX®



ULTIMAAX®



Long Travel Trailing Arm Air Suspension

Severe-duty air suspension

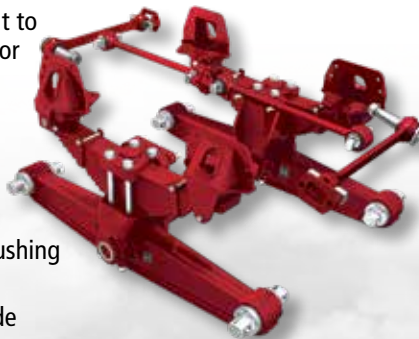
- Fully customizable design allows for a variety of packaging, ride heights, ride tuning and stability requirements
- Large-volume, low frequency air springs or optional heavy-duty coil springs help smooth the ride in rugged conditions
- Over 12 in. of wheel travel for superior mobility
- Compatible with HPAS™ for active ride height control and load leveling
- Capacities up to:
 - 27,000 lbs. (single-axle)
 - 54,000 lbs. (tandem-axle)
 - 81,000 lbs. (tridem-axle)



RT™

Durable steel leaf spring suspension

- Genuine Hendrickson springs are made from high-strength steel and are heat-treated and shot-peened for exceptional fatigue life
- Equalizing beams utilize a central pivot point to help maintain tire contact with the ground for improved traction
- Suspension design provides a low center of gravity for increased stability
- Up to 15 in. of diagonal articulation for outstanding traction and mobility
- Rugged beam-to-axle connection extends bushing life and allows easy axle alignment
- Optional shock kit available for improved ride
- Tandem capacities up to 65,000 lbs.



Leaf Spring Capabilities

Parabolic and multi-leaf springs

- **Parabolic Taper-leaf**
Custom designed for a variety of on- and off-highway applications
- **Monoleaf**
Innovative spring designed to optimize steering kinematics and significantly save weight
- **Off-Highway Bogie**
Rear heavy-section parabolic springs designed and produced for a variety of off-highway applications
- **Multi-Leaf**
Rugged yet efficient design to suit a variety of demanding applications



Sustaining Member



SPRINGS

Committed to Advancing Global Spring Technology

As a leader in the industry, we are committed to advancing global spring technology. In proprietary, state-of-the-art research and design centers, our engineers develop products for today and ride solutions for future generations. Advanced Hendrickson proprietary processing allows us to achieve maximum hardness in springs, for extended fatigue life and higher strength to withstand demanding braking requirements. We've reduced the number of leaves required for many of our spring products, leading to lower cost and weight; benefits that customers come to expect.

We continue vertical integration by manufacturing many of our own spring bushings. This gives us better quality control of the entire spring assembly and ensures overall performance. Hendrickson engineers work with vehicle manufacturers to design and model innovative prototypes and conduct rigorous testing in the lab and in real-world conditions; providing you with smart, efficient and cost-effective solutions.

A Leaf Spring for Every Need

Hendrickson offers a wide range of leaf springs from monoleaf to multi-leaf springs to customized solutions. We design springs for light- through heavy-duty commercial vehicles; with spring thicknesses ranging up to 2.5 in. and a maximum length of 8 ft. Hendrickson manufactures springs weighing from 15 to 882 lbs. Our weight-saving solutions can total up to 220.5 lbs. saved per truckload; we understand every pound counts in the transportation industry. Whatever the end user requires – reliability, durability, weight reduction or innovative designs – Hendrickson is the world's spring provider for your transportation needs.

8t Monoleaf



3D Airlink



Heavy-Duty Parabolic Leaf Spring



Superlight Monoleaf



Monoleaf Airlink



Heavy-Duty Multi-leaf



V-Shaped Monoleaf



I-Shaped Airlink



Bogie Parabolic Spring



Composite Monoleaf Spring



Multi-Kicked Monoleaf Airlink



7.5t Composite Monoleaf



I-Shaped Monoleaf Airlink



V-Shaped 3D Airlink



V-Shaped Bogie Parabolic



STABILIZERS

Refining Vehicle Stability, Handling and Comfort

More than 30 years of expertise in stabilizer design allows Hendrickson to further enhance commercial vehicle stability, handling and comfort. Stabilizers play a key role in many truck and bus suspension designs and are becoming increasingly important in weight-critical applications for the next generation of trucks.

Stabilizer Design and Testing

Each customized component is designed, prototyped and tested by our engineers to meet both vehicle manufacturer requirements and Hendrickson stringent criteria. Each stabilizer design is tested in our lab and in real-world conditions, to provide the end user with innovative and cost-effective solutions. These proprietary competencies enable us to continuously improve our manufacturing quality and production processes for all our components and suspension systems.

Lighter and Value Added

Hendrickson tube stabilizers are up to 45 percent lighter than solid stabilizers and enable significant reduction in both unsprung and total weight savings. Our stabilizers help the end user meet today's fuel consumption challenge and the expectations of higher payloads.

Our expertise lies in medium to large diameter stabilizers. Hendrickson delivers state-of-the-art tube stabilizers with diameters up to 2.6 in. and wall thickness of .39 inches. In addition, our advanced two-stage coating line ensures anti-corrosion surface protection, resulting in superior durability and added value for the end users.

Whatever your spring or stabilizer requirements are, Hendrickson holds the solution for your transportation needs. Hendrickson has over 100 years of experience in the global heavy-duty commercial vehicle industry, that's why . . . *The World Rides On Us*®.

Tube Stabilizer



IFS Stabilizer Bar



Solid Rear Stabilizer



Bus Welded Stabilizer



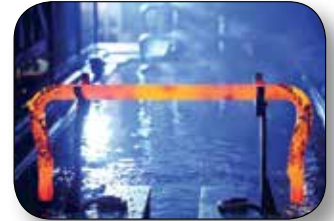
Heavy-Duty Welded Stabilizer



U-BOLTS

Europe's leader in the production of U-bolts

Hendrickson produces suspension U-bolts, wheel studs and threaded bolts using advanced technologies, especially in the key manufacturing processes of thread rolling, heat treatment, bending and GEOMET anti-corrosion protection. Our design and quality standards meet or exceed strict OEM customer requirements. Our dedicated, highly-qualified employees and advanced technologies ensure these standards are met. We are continuously advancing our manufacturing technologies to further increase the quality we provide and to expand our selection of U-bolts. Decades of experience and technical expertise enable us to design, test and produce tough and durable component solutions.



TORQUE RODS / TORQUE ROD BUSHINGS

Through unrelenting pursuit of innovation and quality for the past century, Hendrickson remains a pioneer in the commercial vehicle industry. We are a leader in the advancement of suspension and component technology as a result of more than sixty years of development and over twenty years of elastomer manufacturing experience. These accomplishments allow us to fully integrate systems, modules and components that meet commercial vehicle demands for durability, weight savings and low life cycle costs.

TRAAX ROD™ – Family of Torque Rods

- Extended Life**
 Advanced bushings and flat rod body construction work together to provide up to 5 times* longer life than competitive torque rod and conventional double shot bushing assemblies.
- Weight Efficiency with High Strength**
 No castings needed. Manufactured using high-strength materials utilizing Hendrickson's expertise in robotically-welded fabrications.
- Packaging**
 Available in a variety of lengths and hub sizes.
- Durability**
 Rod body and bushing designs meet rigorous testing parameters required for all Hendrickson products.
- Flexibility**
 Available with straddle or taper pin bushing design.
- Broad Application**
 Bushing and rod bodies specifically designed for each capacity and application criteria.

* Based on internal testing of bushing walkout, retention and durability. Actual product performance may vary depending on component and vehicle configuration, operation, service and other factors.



TRAAX ROD™ Torque Rod Bushings



Light-duty



Heavy-duty



Severe-duty



Taper Pin



Rate Ring

Offering a wide variety of bushing designs to meet global application or attachment requirements. From light-duty on-highway to demanding vocational applications, our designs are tailored solutions to deliver extended performance and restrict walk out. Whatever the application requires – reliability, outstanding durability, articulation, innovative designs – we are pushing the boundaries of torque rod performance for your transport needs.

Additional Torque Rod offerings

ULTRA ROD® and ULTRA ROD® PLUS Torque Rods

Forged or cast rod body construction with unique bonded bushings. Both forged and cast rod bodies provide structural integrity, while the unique bonded bushings reduce the friction and heat that can damage ordinary bushings – providing longer life and greater payload.



ELASTOMERS

Hendrickson's unique elastomer design capabilities result in higher performing, more durable maintenance-free components.

Why use rubber in heavy truck suspensions?

- Reduce overall suspension weight
- Lower component costs
- Increase durability in harsh operating environments
- Ease of service and replacement
- Reduce maintenance – requires no lubrication
- Provide isolation and damping through energy absorption
- Add system compliance for greater articulation and mobility

Spring Eye Bushings

Spring eye bushings are designed as a system providing enhanced spring performance in the areas of roll stability, ride and durability.



Thru Bolt



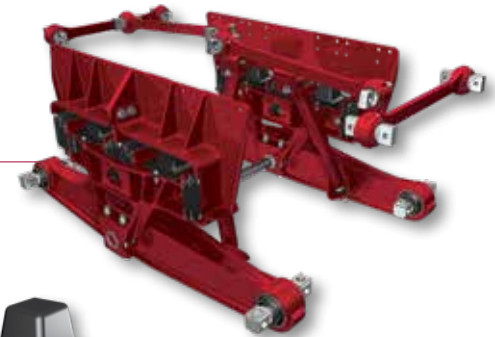
Rate Ring Cartridge



Bar Pin

Rubber Springs

Our advanced components have re-defined the way rubber spring suspensions perform. The innovative, high grade rubber designs withstand heavy loads in rugged applications.



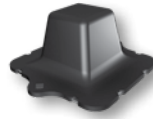
Shear Spring (ULTIMAAX®)



Progressive Spring (ULTIMAAX® 40T)



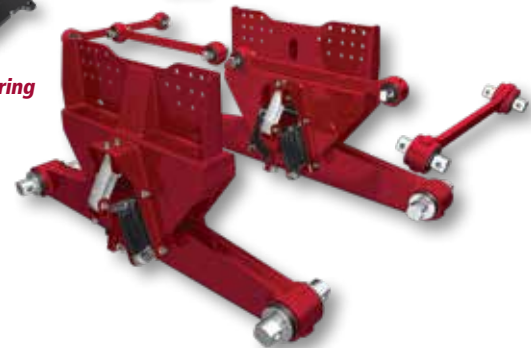
Progressive Spring (ULTIMAAX® 32T)



Progressive Spring (ULTIMAAX® 460/600)



Progressive Spring (HUV®)



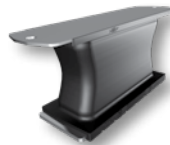
Bolster Spring (HAULMAAX®)



Progressive Spring (HAULMAAX®)



Bolster Spring (HAULMAAX®)



Progressive Spring (HAULMAAX®)

Beam Bushings

Premium rubber beam end bushings provide enhanced flexibility between the beam and the axle to absorb braking and accelerating forces and provide designed articulation / compliance to help ensure high-mobility demands. Equalizing beam center bushings are designed for specific types of Hendrickson walking beam suspension capacities and configurations to maximize system performance.



Rate Ring End Bushing



Spherical End Bushing



Voided Center Bushing



TRI-FUNCTIONAL® III Trailer Bushing



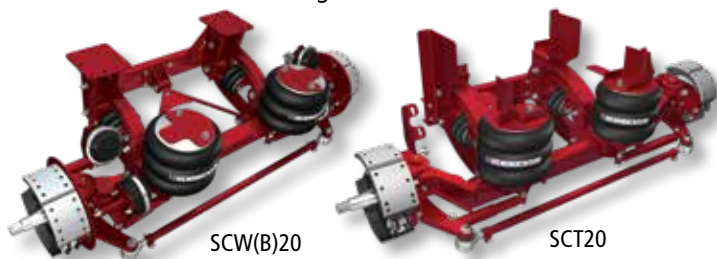
VOCATIONAL / HEAVY-HAUL

LIFT AXLE SUSPENSION SYSTEMS

COMPOSILITE® SC

Lightweight *steerable* lift axle platforms for truck and trailer

- Adjustable ride height and frame width feature allows stocking of one suspension for multiple vehicle requirements
- Up to 31 degrees of wheel cut on the 8,000, 10,000 and 13,500 lb. models provide outstanding maneuverability
- In-line air springs maximize packaging space and provide additional protection from road debris
- Truck applications available up to 8,000, 10,000, 13,500 and 20,000 lbs.
- Trailer applications available up to 13,500 and 20,000 lbs. as weld-on or bolt-on configurations



COMPOSILITE® EXS

Lightweight *steerable* lift axle systems for truck and trailer

- Inset lower beams for improved lateral stiffness
- Weld free hanger design minimizes stress risers
- Zero-torsion rubber bushings
- STEERTEK™ axle technology with weld-free axle connection
- Traditional tie rod – with CTR option for tag positions
- Bolt-on axle seats for easy serviceability
- Structural warranty coverage increase of Hendrickson made components – from 5 to 7 years*
- Available in 2019 — EXS in 8,000, 10,000, 13,500 and 20,000 lb. capacity models replacing the SC steer models



COMPOSILITE® EXF

Lightweight *non-steer* lift axle systems for truck and trailer

- Inset lower beams improve lateral stability
- Longer life zero-torsion rubber bushings
- Extended bump stops added for extreme axle loading conditions
- INTRAAX® axle technology with axle wrap design
- Available in 2019 - EXF in 13,500 lb. capacity models replacing the FX non-steer models



COMPOSILITE® SCO

Lightweight *steerable* lift axle systems for roll-offs

- Beams are spaced inboard one-inch for additional clearance and unique air spring plates mount to the inside frame rail
- Adjustable ride height and frame width feature allow stocking of one suspension for multiple vehicle requirements
- Integrated knuckle is adaptable for custom requests and results in a lighter weight
- Scalloped hanger improves clearance around the cylinder beams
- SCO13 capacities up to 13,500 lbs.
- SCO20 capacities up to 20,000 lbs.



COMPOSILITE® SCH

High-lifting *steerable* lift axle system

- High lift tag axle for the mixer market
- Provides up to 24 in. of travel
- Fabricated knuckle with integrated brake
- Capacity up to 10,000 lbs.



COMPOSILITE® FX

Lightweight *non-steer* lift axle system

- Compact package reduces space needed for operation
- Fabricated axle reduces suspension weight and maintains durability
- Integrated brakes
- Capacity up to 13,500 lbs.



COMPOSILITE® FXO

Lightweight *non-steer* lift axle system for roll-offs

- Beams are spaced inboard one-inch for additional clearance and unique air spring plates mount to the inside frame rail
- Scalloped hangers improve clearance around the cylinder beams
- Also available in steerable version
- Integrated brakes
- Capacity up to 13,500 lbs.



TOUGHLIFT® FM

Heavy-duty *non-steer* lift axle systems

- QUIK-ALIGN® axle alignment system simplifies axle alignment
- TRI-FUNCTIONAL® bushings for increased life span
- Self-shearing TORQ-RITE® nut to assure proper clamp load
- Capacities up to 25,000 lbs.



TOUGHLIFT® FMO

Heavy-duty *non-steer* lift axle system for roll-offs

- Fits as flat to the frame as possible providing maximum clearance from cylinder beams and other sliding components
- Scalloped hangers improve clearance around the cylinder
- Ride spring components are positioned inside the frame rails
- Beams are spaced inboard for additional clearance
- Upper air spring mounting plates moved to inside of frame rail for clearance – in similar fashion to FXO 13K roll-off version
- Capacity up to 25,000 lbs.



TOUGHLIFT® FR

High lifting *non-steer* tag lift axle systems

- High lift design with round axles provide significant ground clearance
- Ride springs protected by axle location
- Design allows greater clearance of vehicle undercarriage
- Capacities of 13,000, 16,000 and 18,000 lbs.



TOUGHLIFT® LK

Dual tire *steerable* lift axle system

- Lockstraight mechanism
- Protected lift air springs
- Fabricated knuckle design
- Adjustable tie rod
- Self-centering steering dampers
- Available for Truck applications
- Capacity up to 25,000 lbs.



Auxiliary Loose Axles

- Hendrickson's lightweight auxiliary axles are durable and available for use with other approved vocational suspension systems
- Drop center configurations feature industry-standard spindles and provide flexibility for a variety of vehicle applications



Value-added Options

Air Disc Brakes

- Maintain stability
- Reduce brake fade
- Greater downhill performance
- Symmetrically balanced left and right brake power
- Brake pad changes and adjustments are quicker



Pre-plumbed Integrated Air System — reduces installation time through pre-located air tanks, hoses and valves

Full line product brochures available at:
www.hendrickson-intl.com/Auxiliary

H769 Truck Model Applications • H770 Trailer Model Applications



VOCATIONAL / HEAVY HAUL / ON-HIGHWAY

SUSPENSION SYSTEMS

INTRAAX®

Integrated air suspension / axle / brake system

- LDA™ Large-Diameter Axle reduces weight, improves performance and increases stiffness*
- TRI-FUNCTIONAL® Bushing - up to a five-year limited warranty**
- QUIK-ALIGN® axle alignment system standard
- Available with UBL™ UNDER BEAM LIFT™ kits*
- 10-year warranty on axle / beam connection**
- Air disc brakes available including Hendrickson's MAXX22T™ optimized trailer air disc brake*
- Available with TIREMAAX® automatic tire inflation systems

* Available on most models ** Contact your local Hendrickson representative for complete warranty terms, conditions and limitations.

INTRAAX® AANT 23K

Narrow-bushing, tapered-beam air suspension / axle / brake system

- Lightweight integrated trailer suspension solution
- Optimum performance for straight-frame platforms, container chassis, tankers, bottom dumps, grain and livestock trailers
- Installation efficiency — tapered hangers allow installation without additional gussets on trailer frames as narrow as 4 in.
- ZMD® ZERO MAINTENANCE DAMPING® shockless ride technology available
- Hendrickson MAXX22T™ optimized trailer air disc brake available
- Ride heights from 12 to 19 in.
- Galvanized frame bracket option for bolt-on frame brackets
- Capacity of 23,000 lbs.



INTRAAX® AANL 23K

Low-ride height / liftable air suspension / axle / brake system

- Optimal for low-ride height drop-decks, lowboys and liftable applications on platforms, tankers and specialty trailers for on- and off-highway applications
- One of the lightest low-ride-height / liftable trailer air suspensions on the road today by an average of 75 lbs.
- Hendrickson MAXX22T™ optimized trailer air disc brake available
- Ride heights from 6.5 to 17 in.
- Galvanized frame bracket option for bolt-on frame brackets
- Capacity of 23,000 lbs.



Shown with optional UBL™ UNDER BEAM LIFT™

INTRAAX® AAT 23K / 25K / 30K

Fully integrated top-mount air suspension / axle / brake system

- Hendrickson's first integrated trailer suspension system — setting the industry standard for weight savings, reduced maintenance and outstanding durability
- Designed for platforms, tankers, dumps, grain, livestock and specialty trailers for on- and off-highway applications
- Ride heights from 13.5 to 19 in.
- RCA raised-center axle available in 5 in. axle diameter only
- Hendrickson MAXX22T™ optimized trailer air disc brake available
- Galvanized frame bracket option for bolt-on frame brackets
- Capacities of 23,000, 25,000 and 30,000 lbs.



INTRAAX® AAL 23K / 25K / 30K

Low-ride-height / liftable air suspension / axle / brake system

- For drop-decks, lowboys, platforms, tankers, vans and specialty trailers in on- and off-highway applications
- All the advantages of INTRAAX® including low weight, high durability and integrated system performance with minimal maintenance
- Ride heights from 6.5 to 19 in.
- RCA raised-center axle available in 5 in. axle diameter only
- Hendrickson MAXX22T™ optimized trailer air disc brake available
- Galvanized frame bracket option for bolt-on frame brackets
- Capacities of 23,000, 25,000 and 30,000 lbs.



INTRAAAX® AAEDT 30K

Top-mount system for extreme-duty applications

- Tames the grueling demands of loggers, chip vans, dumps, tankers, platforms and specialty trailers
- Low-pressure air springs with steel pistons
- High-damping, extended-service shock absorbers
- Heavy-duty options including rear-mount shocks and chain down stops
- Ride heights from 14 to 17 in.
- Galvanized frame bracket option for bolt-on frame brackets
- Capacity of 30,000 lbs.

Shown with optional chain down stops and rear-mount shocks



INTRAAAX® AAEDL 30K

Low-ride-height / liftable system for extreme-duty applications

- Designed for the tough demands of loggers, chip vans, dumps, tankers, straight and drop-deck platforms and specialty trailers
- Low-pressure air springs with steel pistons and full bottom plate coverage
- High-damping, extended-service shock absorbers
- Heavy-duty options include rear-mount shocks and chain down stops
- Ride heights from 9 to 19 in.
- Galvanized frame bracket option for bolt-on frame brackets
- Capacity of 30,000 lbs.

Shown with optional chain down stops and rear-mount shocks



INTRAAAX® AANLS 20K

Complete integrated system in a highly compact, low-ride-height assembly

- Compact system ideal for the tight confines of autohaulers, moving vans and other drop-frame van trailers
- Up to 120 lbs. lighter than comparable air suspensions
- Offers a choice of 15 in. brakes needed for 19.5 in. tires or conventional 16.5 in. brakes
- Hendrickson MAXX22T™ optimized trailer air disc brake available
- Ride heights from 6.25 to 12 in.
- Capacity of 20,000 lbs.



INTRAAAX® SP AAZNT 23K / 46K / 69K AAZL 23K / 46K

Platform sliders designed for flatbed and drop-deck trailers

- Fully-integrated, air suspension slider system features outstanding weight savings and high durability with minimal maintenance
- Ride heights from 6.5 to 18 in.
- Available in both top-mount and low-ride models
- Hendrickson MAXX22T™ optimized trailer air disc brake available (top-mount models only)
- Capacity of 23,000 lbs. (single-axle) configurations, 46,000 lbs. (tandem-axle) configurations and 69,000 lbs. (tri-axle) configurations



SPECIALTY / VOCATIONAL / HEAVY HAUL

SUSPENSION SYSTEMS

CONNEX™ ST CXST 25K

Trailer steerable suspension system

- Ideal for multi-axle trailer applications
- Assists with compliance to Ontario SPIF regulations
- Helps increase maneuverability
- Standard with RTR® READY-TO-ROLL® wheel-end packages, HXL3® or HXL5®
- Available with TIREMAAX® automatic tire inflation systems
- Ride heights from 14 to 19 in.
- Capacity of 25,000 lbs.



CONNEX™

Unitized air suspension and axle system

- Ideal for low-ride height applications that require 12.25 and 16.5 in. drum brake packages
- Available with TIREMAAX® automatic tire inflation systems
- Standard with RTR® READY-TO-ROLL® wheel-end package, HXL5®
- Standard with QUIK-ALIGN® pivot connection
- Capacities of 23,000 and 25,000 lbs.



CXU 23K / 25K

- Galvanized frame bracket option for bolt-on frame brackets
- Ride heights from 5.5 to 9 in.

CXY 23K / 25K

- Yoke-type suspension; ideal for applications such as lowboys
- Designed to be used in conjunction with CXU suspensions
- Ride heights from 6.5 to 9 in.

HT™ Series

Reliable, affordable and flexible air suspensions

- Designed for use with multiple brake sizes including 12.25 in.
- Multiple brake chamber orientations available
- TRI-FUNCTIONAL® Bushing with up to a five-year limited warranty*
- QUIK-ALIGN® axle alignment system standard on most models
- 5-year / 500,000-mile structural warranty*
- Off-the-shelf replacement parts

Top-Mount Air Suspensions (HT190T, HT230T, HT250T and HT300T)

- Ride heights from 12 to 23 in.
- High control versions available for certain models of all rated capacities
- Some models available for use with steerable axles and air disc brakes
- Capacities of 20,000, 23,000, 25,000 and 30,000 lbs.



Underslung Air Suspensions

(HT190U, HT250US and HT300US)

- Ride heights from 3.5 to 17 in.
- High control versions available for certain models of all rated capacities
- Some models available for use with steerable axles
- Capacities of 20,000, 25,000 and 30,000 lbs.



Y-Beam Air Suspensions

(HT250YS and HT300YB)

- Ride heights of 6.5, 7.5 and 9 in.
- For use in conjunction with HT250US and HT300US or other suspensions on applications such as lowboys, etc.
- Capacities of 25,000 and 30,000 lbs.



HSDS®

Hendrickson severe-duty system

- Delivers rugged dependability and outstanding ride quality and control for curtainsiders, platform trailers, tippers, tankers and container chassis
- Patented beam-to-axle connection[▲] for rugged performance and durability in severe operating environments
- Ride heights from 14.5 to 23 in.
- Quad shocks and rebound limiter available
- Lift kits available for certain ride heights
- Capacities up to 30,000 lbs.



HSDS 13t

[▲] This product is covered by at least one or more U.S. and/or foreign patents and/or pending U.S. and/or foreign patent applications. See Hendrickson for details.

TRLAXLE®

Non-integrated trailer axles

- Lightweight and durable non-integrated trailer axles are available for use with HT series suspensions and other approved suspension systems, both air and mechanical
- Straight axle configurations featuring industry-standard spindles for a variety of vehicle applications
- Available with industry-standard drum brakes in various sizes, Hendrickson linings and wheel-end arrangements
- Hendrickson MAXX22T™ optimized trailer air disc brake available
- Available with TIREMAAX® PRO and CP automatic tire inflation systems



ON-HIGHWAY

SUSPENSION SYSTEMS

VANTRAA[®] / ULTRAA-K[®]

Low-maintenance slider systems for dry-freight, refrigerated and specialty van trailers

- Integrates INTRAA[®] suspension and K-2[®] slider box technology for enhanced durability and industry leading weight savings
- Equipped with QUIK-DRAW[®] pneumatic pin-pull mechanism for easy wheel-base adjustments
- DST[®]* Dock Stabilizing Technology[™] and SURELOK[®] system options available for stable and efficient payload transfer
- LDA[™] Large-Diameter Axles provide heavy-duty performance from an ultra-light axle
- Hot dip wax and soft coat finish available for lasting corrosion resistance
- Hendrickson MAXX22T[™] optimized trailer air disc brake available*



QUIK-DRAW[®]



SURELOK[®]

*DST and air disc brakes not available on HKANL and HKAL.

ULTRAA-K[®] UTKNT 40K

- Stronger than VANTRAA[®] 40K HD model
- Lightweight tandem slider technology
- ZMD[®] ZERO MAINTENANCE DAMPING[®] shockless ride technology
- Pivoting mud flap brackets help prevent mud flap damage
- Protected height control valve mounting location
- Hot dip wax, exclusive to ULTRAA-K[®], provides a limited ten-year structural corrosion warranty**
- Capacity of 40,000 lbs.



HKANT 23K

- Single-axle slider
- Up to 200 lbs. lighter than competitive systems
- Capacity of 23,000 lbs.



HKANT 40K

- Lightweight tandem slider
- Engineered for dry-freight and refrigerated vans
- Capacity of 40,000 lbs.



HKANT 46K

- Tandem slider tailor-made for heavy-duty applications
- Up to 175 lbs. lighter than similar 46,000 lb. capacity systems
- Capacity of 46,000 lbs.



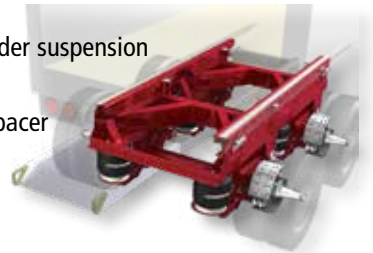
HKANT 46K - Wide spread

- 121 in. spread tandem
- Saves more than 350 lbs. when compared with equivalent systems
- Capacity of 46,000 lbs.



HKARL 46K

- Lightweight ramp-ready air slider suspension
- Features 30x6.5 in. ramp bay
- Eliminates heavy, expensive spacer tubes
- Capacity of 46,000 lbs.



HKANL 23K

- Lightweight liftable single axle slider
- Designed for dry, refrigerated and specialty van market
- Increased suspension up travel for lift applications
- Capacity of 23,000 lbs.



HKAL 46K

- Low-ride-height tandem
- Suitable for drop-frame van applications
- Capacity of 46,000 lbs.



HKAT 50K

- Heavy-duty tandem slider
- Ideal for carrying heavy loads and running on secondary roadways
- Capacity of 50,000 lbs.



HKANT 69K23 / HKAT 69K25 / HKAT 75K25

- Lightweight tridem slider
- Designed for moving freight across North American borders
- Available in 60 and 72 in. axle spacing – 49 in. axle spacing is available for HKANT 69K23 only



** Contact your local Hendrickson representative for complete warranty terms, conditions and limitations.

WHEEL-END / BRAKE OPTIONS

VOCATIONAL / HEAVY-HAUL / ON-HIGHWAY

With RTR® READY-TO-ROLL® wheel-end packages, Hendrickson offers fully integrated solutions that help minimize operating costs and improve performance. RTR wheel-end packages are available on INTRAAX®, INTRAAX® SP, VANTRAAX®, ULTRAA-K®, CONNEX™ and CONNEX™ ST integrated air suspension systems and TRLAXLE® non-integrated axles.

Hendrickson wheel-end systems deliver low-maintenance, durability and reduced weight with the convenience of a single-source supplier.

HXL7®, HXL5® and HXL3® Wheel-ends

- Field serviceable with Hendrickson approved components
- Cost-effective, extended service option that delivers durability and outstanding performance
- Standard with Hendrickson's patented wheel-end ventilation system[▲]
- Available with TIREMAAX® PRO tire pressure control system
- Set at light preload for improved bearing and seal life
- Tamper deterrent
- PRECISION240® and PRECISION320® spindle nut systems allow for ultra-precise bearing adjustment
- Extended service seal resists leaking and helps prevent contamination ingress
- Ductile iron, aluminum or Dura-Light Hub® available



[▲] This product is covered by at least one or more U.S. and/or foreign patents and/or pending U.S. and/or foreign patent applications. See Hendrickson for details.

HXL7® Hendrickson Extended-Life 7-Year System™

- 7-year limited warranty*
- Semi-fluid grease
- Corrosion resistant hubcap



PRECISION320®
nut system

HXL5® Hendrickson Extended-Life 5-Year System™

- 5-year limited warranty*
- Semi-fluid grease
- Die cast aluminum hubcap



HXL3® Hendrickson Extended-Life 3-Year System™

- 3-year limited warranty*
- Affordable oil-bath wheel-end
- Die cast aluminum hubcap



Hendrickson MAXX22T™

Optimized trailer air disc brake system

- Proprietary Hendrickson MAXX22T™ brake caliper
- Lightweight rotor and torque plate deliver unparalleled weight savings over ductile iron designs
- Enhanced weight savings with the Dura-Light Hub® option
- Bolt-on dust shield for easier installation and maintenance
- The only ADB system offered with Hendrickson comprehensive warranty* coverage



FEATURES / OPTIONS

VOCATIONAL / HEAVY-HAUL / ON-HIGHWAY

Superior Axle Design



- LDA™ Large-Diameter Axles featured on most INTRAAX® and VANTRAAX® suspension systems
 - Up to 31 lbs. lighter than comparable 5 in. axle, allowing more cargo per load
 - Bending and torsional stiffness increased by as much as 22 percent for reduced deflection
 - Axle wrap, spindle and spider mounting surfaces are machined in one step to ensure precise brake geometry and wheel positioning
 - Brake hardware attached to trailing arms rather than welded to axle, minimizing axle stress

Low Maintenance and Convenience

Time and money saving features

- Simple, functional design uses fewer parts — that means fewer parts to wear out
- QUIK-ALIGN® — fast and easy axle realignment system requires no welding or special tools
- TRI-FUNCTIONAL® Bushings — proven technology for miles of dependable service
- Single source for comprehensive technical support, training and warranty



TIREMAAX® PRO

Advanced tire pressure control system

- Automatically inflates tires using the trailer air supply
- Prevents over-inflation by relieving air from the tires back through the controller
- Patented controller[▲] is designed to recognize normal pressure increase due to operation
- Constantly equalizes tire pressure across all wheel positions



[▲] This product is covered by at least one or more U.S. and/or foreign patents and/or pending U.S. and/or foreign patent applications. See Hendrickson for details.

UBL™ UNDER BEAM LIFT™

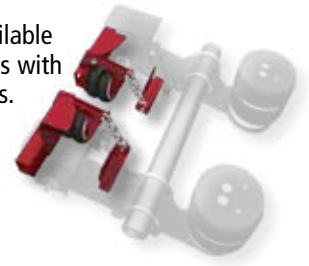
Adds operational flexibility and helps extend tire life, improve maneuverability and increase fuel economy

- Combine with INTRAAX®, VANTRAAX® and some HT™ Series suspension models
- No chains, cables or metal-on-metal parts to wear or bind
- Bolt-on UBL feature is compatible with galvanizing and improves installation efficiency



Lift Kits

- CL, HTCL, VCL and HTBL lifts available for use on select HT Series models with capacities of 23,000 to 30,000 lbs.
- SBL® SIDE BEAM LIFT® and CL center lift kits available for HT250US models



ZMD® ZERO MAINTENANCE DAMPING®

Hendrickson exclusive ride technology

- Reduces suspension maintenance by eliminating shocks
- Air spring performs damping function by exchanging pressurized air through channels
- Uniform damping levels
- Robust chain down stop provides maximum durability
- Reduces risk of CSA violations from leaking or worn shocks
- Superior driver comfort, ride quality and cargo protection
- Standard on ULTRAA-K® and available as an option on select VANTRAAX® and INTRAAX® models



Corrosion Protection / Coatings

Hendrickson coatings help protect your investment

- **Hot Dip Wax:** Exclusive to ULTRAA-K®, a self-healing, pliable coating that re-seals itself in areas with minimal damage. Entire slider box is coated for exceptional coverage and comes with a 10-year structural corrosion warranty.*
- **Black or Grey Soft-Coat:** A self-healing, pliable, water resistant coating that re-seals itself in areas with minimal damage
- **Hot-Dipped Galvanized:** Zinc coating for improved chip and corrosion resistance. Available on INTRAAX® bolt-on frame brackets and limited VANTRAAX® and ULTRAA-K® slider boxes
- **Black Primer:** Uses a multi-stage cleaning and preparation process for high adhesion
- **AAXTREME COAT®:** Premium brake shoe coating provides superior corrosion protection in tough environments
- **E-coat:** All Hendrickson brake shoes are standard with high quality e-Coat for improved resistance to rust-jacking

* Contact your local Hendrickson representative for complete warranty terms, conditions and limitations.

Brake Options

Extend intervals between brake service

- HXS® Hendrickson Extended Service™ brakes with thicker lining blocks extend brake life
- Wide HXS 16.5 × 8.625 in. brakes can help increase miles between lining changes
- Cam Tube System™ for trailer suspensions helps extend life of brake camshafts and bushings

BUMPER and TRIM

VOCATIONAL / ON-HIGHWAY

Hendrickson has the industry's leading comprehensive product offering of heavy-duty truck bumpers for OEM and aftermarket needs. Hendrickson products feature advanced materials specifically designed for bumpers and flexible manufacturing technology to provide customers value through durability, weight reduction and fuel economy.

Bumper Materials and Finishes

- AERO CLAD® stainless steel clad aluminum
- Steel thickness up to 3/8 in.
- Aluminum thickness up to 1/4 in.
- E-coat and top coat finishes
- Polished or brushed finishes
- Chrome and anodized finishes

OEM Bumper Designs and Modules

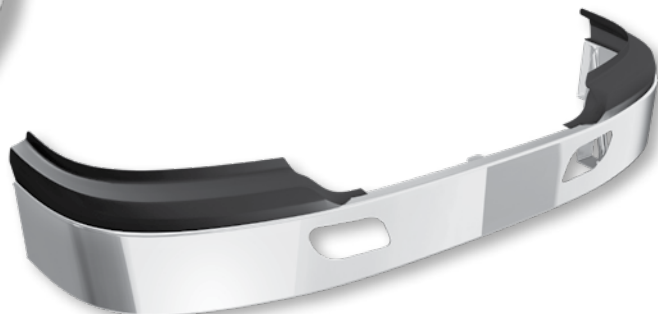
- New complex shapes achieved with advanced forming technologies
- AERO Dynamic Forming Process provides cost effective tooling for multiple materials and finishes
- Line sequencing of bumper modules including trim, lights, wiring, hardware and other components
- Precision assembly and torque control
- In-house die simulation
- Various materials and finishes including exclusive AERO CLAD®

AERO CLAD®

Stainless steel clad aluminum bumpers

- Lightweight design for better fuel economy
- Bright mirrored finish — 10 times thicker than chrome
- Resists corrosion, cracking, pitting, peeling, rusting or fading
- Full 5-year limited warranty*

* Contact your local Hendrickson representative for complete warranty terms, conditions and limitations.





Genuine Hendrickson - All Makes Program

Hendrickson's All Makes Bumper Program offers aftermarket replacement bumpers designed to be a less expensive alternative to the original equipment. The All Makes Program provides parts personnel a wider variety of bumpers than those available through an OEM.

- Comprehensive line of materials and finishes
- New catalog with photos and features / benefits
- Build a bumper configurator available on Hendrickson's web site
- Premium grade materials for high quality and finishing
- Free mobile app for more popular bumper selections
- Hundreds of bumper options
- Metal and non-metal bumpers

Full product line product brochure available at:

www.hendrickson-intl.com/Bumper

– C154 All Makes Bumper Catalog



VOCATIONAL / HEAVY-HAUL

LIFT AXLE AND SUSPENSION SYSTEMS



Watson & Chalin is a brand of Hendrickson

SL — Steerable Lift Axles

- Capacities from 8,000 - 20,000 lbs.
- Parallelogram design for a constant axle caster
- Versatile, adjustable ride height and frame width features
- Minimized packaging space up to 22.1 in.
- Configurations available for all authorized lift axle applications
- Custom engineering available for specific customer requirements
- Backed by a 5-year limited warranty*

* Contact your local W&C representative for complete warranty terms, conditions and limitations.

SL8K

Lightweight compact design, steerable lift axle suspension system

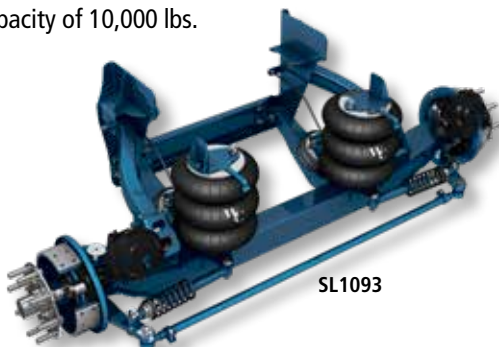
- Ride heights up to 19 in.
- Six stud hub for 17.5 in. wheels
- Capacity of 8,000 lbs.



SL10K

Lightweight compact design, steerable lift axle suspension system

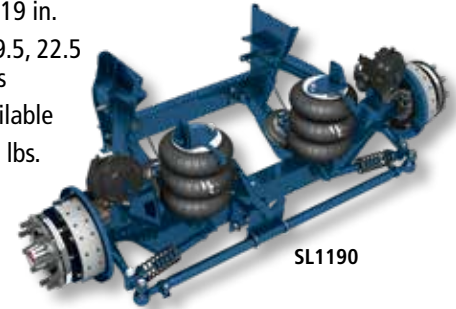
- Ride heights up to 19 in.
- Eight stud hub for 19.5 in. wheels
- Capacity of 10,000 lbs.



SL13K

Our most popular capacity steerable lift axle suspension system

- Ride heights up to 19 in.
- Ten stud hub for 19.5, 22.5 and 24.5 in. wheels
- Air disc brakes available
- Capacity of 13,500 lbs.



SL20K

Robust and innovative steerable lift axle suspension system

- Ride heights up to 14 in.
- Compatible with 445/65R22.5 tires
- Hub face of 89 in. for better body clearance
- Capacity of 20,000 lbs.



SL25K

Steerable lift axle suspension system designed for use with dual or super single tires

- Ride heights up to 14 in.
- Compliant with Ontario, Canada "SPIF" regulations
- Capacity of 25,000 lbs.



AL — Non-Steerable Lift Axle

AL25K

Lift axle suspension system with outstanding performance and proven durability

- Ride heights up to 15 in.
- Two-pin axle connection with rubber bushings
- Positive axle stop straps
- Capacity of 25,000 lbs.





TA — Trailer Air Suspensions

Primary trailer air suspension systems that deliver rugged performance and excellent ride quality

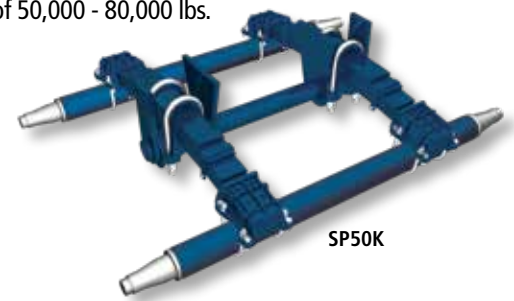
- Ride heights up to 19 in.
- Proven technology for a wide range of applications
- Available as suspension kit or as an assembly with axles
- Special axle tracks available
- ALIGN-TRAC™ — Quick, easy alignment system
- 5-year limited warranty*
- Capacities of 25,000 - 30,000 lbs.



SP — Single Point

Strong spring suspension for on- and off-highway trailer applications

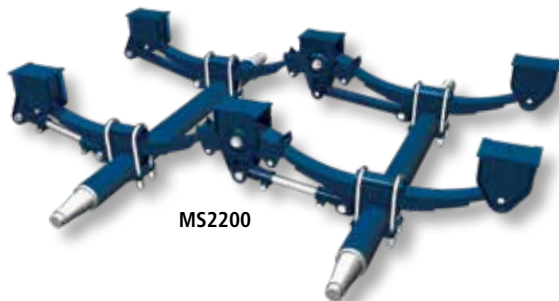
- Straddle mount or trunnion mount
- Severe-duty straddle plate available
- Optional trunnion lengths available
- Available as suspension kit or as an assembly with axles
- Applications: End Dump, Side Dump, Belly Dump, Logger, Container Chassis and more
- 5-year limited warranty*
- Capacities of 50,000 - 80,000 lbs.



MS — Multi-Spring Suspensions

Rugged multi-spring trailer suspension for on- and off-highway applications

- Single, tandem or tridem axle configuration
- Fabricated hangers and equalizers
- Up to 49 in. axle spacing
- 5 in. diameter axle seats
- 1-year limited warranty*
- Capacities up to 30,000 lbs. per axle



Trailer Loose Axles

Offering a full line of axles which helps to finalize the full line of trailer suspensions such as the TA, Single Point and Multi-Spring families

- Straight, 6- or 9 in. drop
- Axle tracks: 71.5- and 77.5 in. standard
- Axle wall: 1/2-, 5/8- and 3/4 in.
- N or P spindles
- Air disc brakes available
- Special axle tracks available
- Tire inflation system available
- Axle capacity up to 25,000 lbs.



W&C Value-Added Options

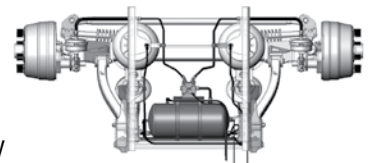
Air Disc Brake

- Better stopping power
- Higher and consistent brake torque output
- Increased service intervals (depending on the application)
- Better uptime while servicing brake pads



Pre-Plumbing System (only on truck lift axles)

- Fewer fittings reduces leak potential
- Better response when air is engaged
- Saves time and money during the installation
- 100 percent leak tested at the factory



* Contact your local W&C representative for complete warranty terms, conditions and limitations.

COMPONENTS / AFTERMARKET

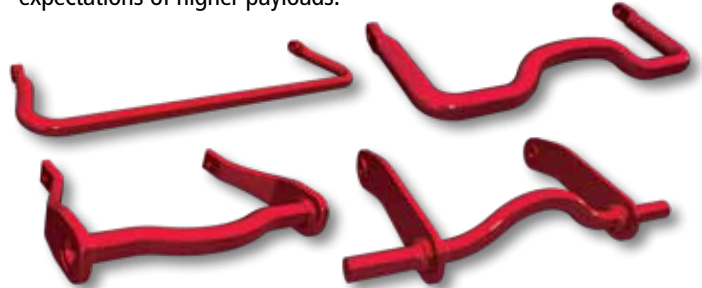
SPRINGS

Hendrickson offers a wide range of leaf springs from monoleaf to multi-leaf springs to customized solutions. We design springs for light- through heavy-duty commercial vehicles; with spring thicknesses ranging up to 2.5 in. and a maximum length of 8 ft. Hendrickson manufactures springs weighing from 15 to 882 lbs. Our weight-saving solutions can total up to 220 lbs. per truckload.



STABILIZERS

Hendrickson tube stabilizers are up to 45 percent lighter than solid stabilizers and enable significant reduction in both unsprung and total weight savings. Our stabilizers help the end user meet today's fuel consumption challenge and the expectations of higher payloads.



TRAAX ROD™

Family of fabricated torque rods

Advanced bushings and flat rod body construction work together to provide up to 5 times* longer life than competitive torque rod and bushing assemblies.

No castings needed. Manufactured using high-strength materials utilizing Hendrickson's expertise in robotically-welded fabrications.



ULTRA ROD® and ULTRA ROD® PLUS*

Torque rods

Forged or cast rod body construction with unique bonded bushings. Both forged and cast rod bodies provide structural integrity, while the unique bonded bushing reduces the friction and heat that can damage ordinary bushings – providing longer life and greater payload.

** Available in 1-piece or 2-piece rod body construction.*



** Based on internal testing of bushing walkout, retention and durability. Actual product performance may vary depending on component and vehicle configuration, operation, service and other factors.*





ELASTOMERS

Hendrickson's unique elastomer design capabilities provide higher performing, more durable maintenance-free components.

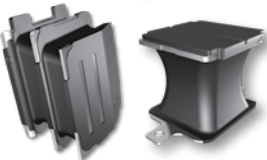
Spring Eye Bushings

Spring eye bushings are designed as a system providing enhanced spring performance in the areas of roll stability, ride and durability.



Rubber Springs

Our advanced components have re-defined the way rubber spring suspensions perform. The innovative, high grade rubber designs withstand heavy loads in rugged applications.



Beam Bushings

Premium rubber beam end bushings provide enhanced flexibility between the beam and the axle to absorb braking and accelerating forces and provide designed articulation / compliance to help ensure high mobility demands.



Why Use Rubber in Heavy Truck Suspensions?

- Reduce overall suspension weight
- Lower component costs
- Increase durability in harsh operating environments
- Ease of service and replacement
- Reduce maintenance – requires no lubrication
- Provides isolation and damping through energy absorption
- Add system compliance for greater articulation and mobility

U-BOLTS

Europe's leader in the production of U-bolts

Hendrickson produces suspension U-bolts, wheel studs and threaded bolts using advanced technologies, especially in the key manufacturing processes of thread rolling, heat treatment, bending and GEOMET anti-corrosion protection. Our design and quality standards meet or exceed strict OEM customer requirements. Our dedicated, highly-qualified employees and advanced technologies ensure these standards are met. We are continuously advancing our manufacturing technologies to further increase the quality we provide and to expand our selection of U-bolts. Decades of experience and technical expertise enable us to design, test and produce tough and durable component solutions.



Protect your investment with **HENDRICKSON** Genuine Parts

Hendrickson views education and knowledge as paramount attributes in an industry where equipment uptime is the primary metric. To facilitate these attributes, Hendrickson offers a vast array of tools to support parts and service personnel, along with do-it-yourselfers.

Hendrickson's website is the single point of entry to our information and educational highway. Part sell sheets, tech tips, parts lists and technical publications are only key strokes away. With the endless and dynamic change in our industry, more complex tools are required. Hendrickson's website offers access to lift axle and bumper configurators, **Parts Look Up System (PLUS+)** and on-line educational videos from the **Hendrickson Academy**. With the combination of Hendrickson Genuine Parts and support tools, fleets and owner-operators can perform with confidence knowing Hendrickson systems and components support their efforts to help achieve maximum uptime.



Original parts. Original fit. Original performance.

Visit www.hendrickson-intl.com for all your aftermarket needs or call 1-866-755-5968.

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OUR COMMITMENT

ENGINEERED FOR EFFICIENCY™ builds upon our legacy as innovators and manufacturers of suspension systems and components for the global medium- and heavy-duty commercial vehicle industry.

Serve the transportation industry with innovative products that deliver improved productivity, profitability and value.

Supply the commercial vehicle industry around the world with durable and cost-effective, advanced ride solution technologies.

Champion dedicated leadership and employees who uphold our proud heritage through creativity, integrity and superior service.

Develop superior, differentiated products that promote leading-edge manufacturing and distribution processes.

Forge strategic relationships that allow us to engineer and manufacture systems, modules and components that meet commercial vehicle owners' needs for durability, weight savings and minimized maintenance.

Advance the design of suspension and component technology by working cooperatively to exceed the demands of our fleet and OEM customers.





for ENGINEERED
EFFICIENCY™





is a leading global manufacturer
and supplier of medium- and heavy-duty
mechanical, elastomeric and air suspensions;
integrated and non-integrated axle and brake systems;
tire pressure control systems; auxiliary lift axle systems;
parabolic and multi-leaf springs; stabilizers;
bumpers; and components to the
global commercial
transportation industry.



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Watson & Chalin is a brand of Hendrickson

Weights and rated capacities in this publication are listed in pounds (lbs.).

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

All applications must comply with applicable Hendrickson / Watson & Chalin specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.

Contact Hendrickson / Watson & Chalin for additional details regarding specifications, applications, capacities, operation, service and maintenance instructions.

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