Global Ride Solutions

Hendrickson is a world-class global manufacturer and supplier of truck, tractor and bus suspensions and heavy-duty springs; trailer suspensions, controls and non-integrated axles; lift axles, and bumpers and trim components to the commercial transportation industry.
Our Commitment

At Hendrickson, we commit to serving the transportation industry with innovative products that improve productivity and profitability. Across the globe, our dedicated employees champion Hendrickson's proud heritage through creativity, integrity and superior service. Our legacy embodies more than 95 years as the leading innovator and manufacturer of suspension systems and components for the heavy-duty vehicle industry.

Commercial vehicles around the world benefit from our commitment to deliver advanced technologies that are reliable and cost-effective. Our leadership thrives on talented individuals with solid business practices, to develop superior, differentiated products that promote leading-edge manufacturing and distribution processes.

Hendrickson leads the advancement of suspension and component technology through unique partnerships derived from understanding the needs of fleet and OEM customers. These strategic relationships allow us to engineer and manufacture systems, modules and components that surpass commercial vehicle owners' demands for durability, weight savings and minimized maintenance.
Everyday around the world, millions of Hendrickson suspensions carry countless loads of freight and raw materials off-road and over the highways. We supply major North American, European and Australian heavy-duty truck and trailer OEMs, as well as many manufacturers in South America and Asia.

The World Rides On Us™ summarizes Hendrickson’s growing global position in the commercial transportation industry and the on-going drive to build relationships that benefit fleets, owner operators and truck and trailer manufacturers around the world.

As the global leader in the manufacture and supply of suspensions for the heavy-duty, commercial transportation industry, our new tagline not only reflects the spirit of the brand but Hendrickson’s 95-year plus legacy of engineering advancements and manufacturing excellence.
Hendrickson continues to build relationships benefiting fleets, owner operators and truck and trailer manufacturers around the world

**Global Networks**
Hendrickson utilizes its expanding global network of operations and suppliers as a resource to produce enhanced, more cost-effective solutions which help support our customers’ globalization activities.

Hendrickson is a leading supplier of suspension systems, springs and bumpers to heavy-duty truck and trailer OEMs around the globe.

We are comprised of 18 facilities and 12 manufacturing centers in the United States, Canada, Mexico, United Kingdom, Spain, Turkey, India, China and Australia.

**Driving Research and Development**
Hendrickson’s pioneering spirit led to a series of valuable “firsts” that have changed the industry and inspired growth.

From production of our first tandem walking-beam suspension in 1926 to the innovative design of today’s PRIMAAX® EX, heavy-duty vocational air suspension, Hendrickson’s approach to research and development continues to drive progress.

Today we focus our expertise on the development of smart characteristics for suspensions and components as intelligent vehicles emerge in the heavy-duty trucking industry. Elements such as brakes, electronics, automatic and remote controls, wheel ends and pneumatics hold tremendous promise for tomorrow’s fleets and owner operators.

Engaging and energizing the global trucking community, Hendrickson remains at the forefront in the development of superior and unique components for a new breed of trucks, tractors and trailers.

**Hendrickson Historical Timeline**

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<tr>
<td>Hendrickson Motor Truck Manufacturing Company founded</td>
<td>Invented our first tandem “walking-beam” suspension</td>
<td>Launched production of tandem suspensions for the entire trucking industry</td>
<td>Expanded into Europe, Australia and Mexico</td>
<td>Produced one-millionth truck “walking-beam” suspension</td>
<td>Introduced AERO CLAD® bumper</td>
<td>Launched HT™ trailer air suspension</td>
<td>Introduced INTRAAX®, first integrated trailer axle and suspension system in North America</td>
<td>Produced first fabricated lift axle, moving the industry from I-beam axles</td>
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Improved Durability / Lightweight / Outstanding Ride / Lower Maintenance Costs / Increased Resale Value / Extended Road Time / Greater Payload / Improved Mileage / Enhanced Cargo Protection

Autohaulers, B-Trains, Beverage, Bus, Cement Mixers, Container Chassis, Delivery, Dollies and Pups, Drop Deck, Dry Bulk, Dumps, Fire and Rescue, Flatbed, Forestry, Grain Hoppers, Liquid, Lowboys, Michigan Trains, Military, Reefers, Waste Haulers . . .

Delivering Product Excellence
Minimize costs and maximize payload with Hendrickson heavy-duty truck, tractor and trailer suspension systems; lift and steer axles; non-integrated trailer axles; bumpers and springs.

Hendrickson ride solutions, engineered and manufactured for durability and weight savings, reinforce efforts by fleets and owner operators to lower maintenance costs and boost the resale value of their vehicles.

Hendrickson teams with commercial vehicle and trailer manufacturers and fleets around the globe to further new product development and support the industry’s growing needs.

Service for the Long Haul
Hendrickson assists OEMs by providing advanced engineering services in the design, development and testing of equipment and parts for use in various commercial and specialty vehicle applications around the world. Further, we back our products by offering 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 enhance customer satisfaction.

Hendrickson Genuine Parts ensure the same performance as original Hendrickson components — all designed to help truckers successfully transport load after load no matter how long the haul.
**Parabolic Taper Springs**
Innovative spring designs and materials for front and rear suspensions

**AERO CLAD®**
Mirror-bright stainless steel clad aluminum bumper offers outstanding durability and aerodynamic efficiency

**HENDRICKSON AERO BRIGHT®**
“Chrome-like” and lightweight non-metal sunvisor

**COMPOSILITE™**
Lightweight lift axle suspension system

**HTB™ LT**
Lightweight non-torque reactive rear suspension for on-highway operation

**SOFTek®**
Lightweight monoleaf suspension and axle system

**HENDRICKSON AERO BRIGHT®**
“Chrome-like” and lightweight non-metal bumper

**HAULMAAX®**
Heavy-duty rubber suspension

**INTRAAX®**
Long-life integrated air suspension systems for vocational and on-highway applications

**PRIMAAX® EX**
Heavy-duty, drive-axle air suspension

**AIRTEK®**
Lightweight front axle and air suspension system with best-in-class ride and handling
HN® 402
Heavy-duty, lightweight tandem drive rubber suspension system

INTRAAX®
On-highway and off-road lightweight, integrated air suspension systems

HA4™
Premium four-bag, drive-axle air suspension system

MLA2™+
Lightweight mid-lift axle and air suspension system

VANTRAAX®
Lightweight integrated air suspension systems for on-highway operation

TIREMAAX®
Automatic tire inflation systems

HT™
Rugged construction, proven performance for off-road and on-highway

Parabolic Taper Springs
Innovative spring designs and materials for front and rear suspensions

PARAREV™
Self-steering lifting axle with air suspension

AIRTEK®
Lightweight front axle and air suspension system with best-in-class ride and handling

INTRAAX®
On-highway and off-road lightweight, integrated air suspension systems

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INTRAAX®
On-highway and off-road lightweight, integrated air suspension systems
**AIRTEK® (Truck - Global)**

*Industry’s first integrated front air suspension and fabricated steer axle*

- Improves ride by up to 30 percent and roll stability by up to 64 percent, compared to two-leaf spring suspension
- Up to 67 lbs. (30.4 kg) weight savings
- Incorporates the STEERTEK box section axle for increased stiffness
- For on-highway with up to 10 percent operation on unpaved, secondary roads
- Capacities of 12,000 to 14,600 lbs. (5.4 to 6.6 t)

**HTB™ LT (Truck - Global)**

*Lightest-in-class, non-torque reactive, on-highway, rear air suspension*

- Weight savings of up to 263 lbs. (119.3 kg) compared to other 40,000-lb. (18.1 t) 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. (18.1 t)

**SOFTEK® (Truck - Global)**

*Integrated front axle and single-leaf spring create the lightest front suspension*

- Save up to 92 lbs. vs. I-beam with two leaf suspension
- Precisely engineered for optimized ride and performance
- Heavy-duty design for durability and maintenance
- Optimized steering performance delivers up to 50-degrees of wheel cut
- Capacities up to 13,200 lbs. (6 t)

**HAS™ 400 (Truck - North America)**

*Tandem axle air suspension*

- Suitable for on-highway applications that require up to 10 percent off-highway travel
- Excellent ride quality
- Lightweight design
- Capacity of 40,000 lbs. (18.1 t)

**STEERTEK (Truck - Global)**

*Fabricated steer axle for on-highway applications*

- Designed as a building block for OEM proprietary and next generation front axle / suspension systems
- Formed and robotically welded axle assembly for lightweight design
- Box shaped cross-section is more rigid than traditional I-beam axles
- Two-piece knuckle reduces maintenance and downtime
- Available in capacities up to 14,600 lbs. (6.6 t)

**HA4™ (Truck - Europe)**

*Four-bag, drive-axle air suspension system*

- Suitable for medium and heavy-duty truck applications
- Non-torque reactive
- Rated up to 13 t
VANTRAAX® (Trailer - North America)

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

- Integrates INTRAAX® and K-2® slider technology for unmatched durability and industry leading weight savings
- Equipped with QUIK-DRAW® pneumatic pin-pull mechanism for easy wheel-base adjustments
- Dock Stabilizing Technology™ (DST®) and SURELOK® options available for stable and efficient payload transfer
- Soft coat finish available for lasting corrosion resistance
- Air disc brakes available

HKANT 23K
- Single-axle slider
- Up to 200 pounds lighter than most competitive systems
- Air disc brakes available
- 23,000-lb. (10.4 t) capacity

HKANT 40K
- Lightweight tandem slider
- Optimized for dry-freight and refrigerated vans
- Lightest 40,000-lb. capacity air suspension in the industry
- Air disc brakes available
- 40,000-lb. (18.1 t) capacity

HKANT 46K
- Tandem slider tailor-made for heavy-duty applications
- Up to 175 pounds lighter than similar 46,000-lb. capacity systems
- Air disc brakes available
- 20 percent stronger than prior models
- 46,000-lb. (20.9 t) capacity

HKANT 46K - Wide spread
- 121-in. spread tandem
- Saves more than 350 pounds when compared with equivalent systems
- Air disc brakes available
- 46,000-lb. (20.9 t) capacity

HKARL 46K
- Lightest ramp-ready air-ride slider in the industry
- Features 30 x 6.5-in. ramp bay
- Eliminates heavy, expensive spacer tubes
- 46,000-lb. (20.9 t) capacity

HKANL 23K
- Lightweight liftable single axle slider
- Designed for dry, refrigerated and specialty van market
- Increased suspension up travel for lift applications
- 23,000-lb. (10.4 t) capacity

HKAL 46K
- Low-ride-height tandem
- Suitable for drop-frame van applications
- 46,000-lb. (20.9 t) capacity

HKAT 50K
- Heavy-duty tandem slider
- Ideal for carrying heavy loads and running on secondary roadways
- Air disc brakes available
- 50,000-lb. (22.7 t) capacity

HKAT 69K23 / 69K25
- Lightweight tridem slider
- Designed for moving freight across North American borders
- Available in 60- and 72-in. axle spacing
- Air disc brakes available
- 69,000-lb. (31.3 t) capacity
VOCATIONAL and HEAVY-HAUL Suspension Systems

**PRIMAAX® EX** (Truck - Global)

*Revolutionary vocational air suspension*

- Ideal for heavy-haul, construction, logging, refuse, mixer and crane 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-road uses
- Up to 12.5 in. (318 mm) of diagonal wheel articulation for superior mobility
- Capacities of 23,000 and 26,000 lbs. (10.4, 11.8 t) (single), 46,000 and 52,000 lbs. (20.9, 23.6 t) (tandem), 69,000 and 78,000 lbs. (31.3, 35.4 t) (tridem)

**PRIMAAX** (Truck - Europe)

- 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
- Rated up to 10.5 t

**HAULMAAX®** (Truck - North America)

*Heavy-duty rubber suspension*

- Recommended for construction, refuse, mixer and logging applications
- Lightweight vocational tandem suspension
- Reduces maintenance with fewer bushings and no lubrication requirements
- VariRate® spring system provides superior combination of empty ride and loaded stability
- Up to 17 in. (432 mm) of diagonal articulation for greater off-road mobility
- Capacities of 40,000 and 46,000 lbs. (18.1 and 20.9 t)

**FIREMAAX® EX** (Truck - North America)

*Heavy-duty air suspension*

- Designed specifically 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 and 27,000 lbs. (10.9, 12.2 t) (single) and 48,000 and 54,000 lbs. (21.8, 24.5 t) (tandem)

**HN®** (Truck - Global)

*Heavy-duty rubber suspension*

- Applications include construction, refuse, mixer and logging
- HN® FR variant for fire and rescue applications
- VariRate® system results in excellent loaded stability and unloaded ride quality
- Up to 17 in. (432 mm) of diagonal articulation contributes to outstanding traction
- Reduced maintenance with fewer bushings and no lubrication requirements
- HN capacities of 40,000, 46,000 and 52,000 lbs. (18.1, 20.9 and 23.6 t) — for truck applications
- HN FR capacities of 42,000, 48,000, 54,000 and 58,000 lbs. (19.1, 21.8, 24.5 and 26.3 t) — for fire and rescue applications

**HN FR Literature reference - 45745-318**

**HN Literature reference - 45745-087**

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Literature reference - 45745-178

Literature reference - 45745-172

Literature reference - 45745-328

Literature reference - 45745-172

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8
**TRUCK**

**VOCATIONAL and HEAVY-HAUL Suspension Systems**

**AR2™** (Truck - Global)
*Original equipment or retrofit truck air suspension*
- Applications include dump, crane / boom and platform
- Converts most RT / RTE steel spring suspensions to an air suspension
- Better ride, longer component life, reduced weight and improved durability
- High articulation capabilities for on-/ off-road applications
- Capacities of 40,000, 46,000 and 52,000 lbs. (18.1, 20.9 and 23.6 t)

**HAS™ (402, 460)** (Truck - Global)
*Tandem axle air suspension*
- Suited for both on- and off-highway applications
- Excellent ride quality
- Approved for up to 25 percent off-highway use
- Approved for use with lift axles
- Optional inboard shocks available
- Approved for use in 40,000- and 46,000-lb. (18.1 and 20.9 t) applications

**PARASTEER™ HD** (Truck - North America)
*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
- System design results in more flexibility in the turn for ease of mobility
- Over-sized rubber bushings require no lubrication
- Available in capacities of 14,600 - 20,000 lbs. (6.6 - 9.1 t) per axle

**R™/RS™** (Truck - Global)
*Severe-service, walking-beam suspension*
- Recommended for mining, mixer, refuse and logging applications
- R Series solid mount is an extra heavy-duty suspension where maximum roll stability is essential
- RS Series maximizes payload in severe-service applications
- Capacities up to 120,000 lbs. (54.5 t)

**RT™/RTE™** (Truck - Global)
*Durable steel leaf spring, walking-beam suspension*
- Well suited for dump, refuse, mixer and military applications
- RT Series engineered with low maintenance bushings and spring assemblies
- RTE Series features extended leaf spring for improved unloaded ride and loaded stability
- RT capacities up to 65,000 lbs. (29.5 t) and RTE capacities up to 50,000 lbs. (22.7 t)

**6 ROD** (Truck - Europe / India)
*Premium double drive suspension system*
- Suitable for tractor and rigid truck on- / off-road
- Provides very high articulation and superb traction on all wheels
- High roll resistance, lower ride frequency with rubber bolsters and long-life, heavy-duty ‘V’ links and torque rods
- Rated at 19, 21, 23, 26, and 32 t
INTRAAX® AANT 23K (Trailer - Global)
Narrow-bushing, tapered-beam, air suspension / axle / brake system
- Lightest integrated trailer suspension on the road today — at least 50 lbs. lighter than AAT 23K
- Optimum performance for straight-frame platforms, container chassis, tankers, bottom dumps and livestock trailers
- Hendrickson Large-Diameter Axle (LDA™) provides the straightest and most consistent trailer axle in the industry
- Installation efficiency — tapered hangers allow installation without additional gussets on trailer frames as narrow as four inches
- Air disc brakes available
- Ride heights from 12 to 17 in. (305 to 432 mm)
- 23,000-lb. (10.4 t) capacity

INTRAAX® AAL 23K / 25K / 30K (Trailer - Global)
The first fully integrated top-mount air suspension / axle / brake system
- Designed for platforms, tankers, dumps, loggers, grain, livestock and specialty trailers for on- and off-road applications
- The original integrated suspension system — setting the industry standard for weight savings, reduced maintenance and outstanding durability
- Ride heights from 13.5 to 19 in. (343 to 483 mm)
- Raised-center axle available
- Air disc brakes available
- Capacities of 23,000, 25,000 and 30,000 lbs. (10.4, 11.3 and 13.6 t)

INTRAAX® AANT 23K / 25K / 30K (Trailer - Global)
Low-ride-height / liftable air suspension / axle / brake system
- Optimal for drop-decks and liftable applications on lowboys, platforms, tankers and specialty trailers for on- and off-road applications
- One of the lightest low-ride height trailer suspensions on the road today — at least 75 lbs. lighter than AAL 23K
- Hendrickson Large-Diameter Axle (LDA™) provides the straightest and most consistent trailer axle in the industry
- Ride heights from 6.5 to 17 in. (165 to 432 mm)
- Air disc brakes available
- 23,000-lb. (10.4 t) capacity
**TRAILER**

**VOCATIONAL and HEAVY-HAUL Suspension Systems**

**INTRAAX® AAEDT 30K (Trailer - Global)**

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. (356 to 432 mm)
- 30,000-lb. (13.6 t) capacity

Literature reference - L741

**INTRAAX® AANLS 20K (Trailer - Global)**

Delivers all of the advantages of system integration in a highly compact, low-ride-height system

- Compact system ideal for the tight confines of autohaulers, moving vans and drop-frame trailers
- Up to 120 lbs. (54 kg) lighter than comparable air suspensions
- Offers a choice of 15-in. (381 mm) brakes needed for 19.5-in. (495.3 mm) tires or conventional 16.5-in. (419 mm) brakes
- Ride heights from 6.25 to 12 in. (159 to 305 mm)
- 20,000-lb. (9.1 t) capacity

Literature reference - L817

**INTRAAX® AAEDL 30K (Trailer - Global)**

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

- 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. (229 to 483 mm)
- 30,000-lb. (13.6 t) capacity

Literature reference - L741

**INTRAAX AAEDT 30K (Trailer - Global)**

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. (356 to 432 mm)
- 30,000-lb. (13.6 t) capacity

Literature reference - L792

**INTRAAX AAZ 23K/46K (Trailer - North America)**

Platform slider designed with INTRAAX 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 17 in. (165 to 432 mm)
- Available in both top-mount and low-ride models
- Air disc brakes available
- 23,000-lb. (10.4 t) capacity single-axle and 46,000-lb. (20.9 t) capacity tandem-axle configurations

Literature reference - L792

**INTRAAX AANLE 9 t / 10 t (Trailer - Global)**

Underslung air suspension / axle / brake system

- Designed specifically for the European trailer market
- For curtainsiders, container carriers, tipper trailers, chemical tankers, tipping silos, fuel tankers, low loaders and specialty trailers for on- and off-road applications
- One of the lightest underslung trailer suspensions on the road today
- Hendrickson Large-Diameter Axle (LDA™) provides the straightest and most consistent trailer axle in the industry
- Ride heights from 8.25 to 16.75 in. (210 to 425 mm)
- Standard with air disc brakes
- Capacities of 9 and 10 t (20,000 and 22,000 lbs.)
Suspension-through-wheel-end systems deliver low maintenance, durability and reduced weight with the convenience of a single-source supplier

**Hendrickson Long-Life System™ (HLS™)**
- 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
- Five-year / 500,000-mile structural warranty
- Off-the-shelf replacement parts

**Hendrickson Value System™ (HVS™)**
- Available in 20,000, 23,000, 25,000 and 30,000-lb. (9.1, 10.4, 11.3 and 13.6 t) capacities
- Ride heights from 12 to 23 inches
- High control versions available for certain models of all capacities
- Some models available for use with steerable axles
- Some models available for use with air disc brakes

**Literature reference - HNP - L919**

**QUAANTUM™ Package**
- Available on INTRAAX® and VANTRAAX® air suspensions
- Exclusive full five-year limited warranty — parts and labor
- HNP™ ADI hub system — includes premium bearings, PRECISION320™ nut system and extended service seal
- Long life shocks
- Long life air springs
- Hendrickson Extended Service™ (HXS®) brakes

**Top Mount**
- Available in 20,000, 23,000, 25,000 and 30,000-lb. (9.1, 10.4, 11.3 and 13.6 t) capacities
- Ride heights from 7.5 and 9 inches
- For use in conjunction with HT250US or other suspensions on applications such as lowboys, etc.
- QUIK-ALIGN® option to be available in 2009
- Coming Soon — “Next-generation” robotically welded version

**Underslung**
- Available in 20,000, 25,000 and 30,000-lb. (9.1, 10.4, and 13.6 t) capacities
- Ride heights from 3.5 to 17 inches
- High control versions available for certain models of all capacities
- Some models available for use with steerable axles

**Lifts**
- UBLs available for use on HT230, HT250T and HT300 suspensions
- CL, HTCL, VCL and HTBL lifts available for use on other models with 23,000 to 30,000-lb. capacities

**Literature reference - L823**

**WHEEL ENDS and PACKAGE OPTIONS**

**Vocational / Heavy-Haul / On-Highway**

Fully integrated solutions that help minimize operating costs and improve performance

**Y-Beam**
- 25,000-lb. (11.3 t) capacity
- Field serviceable with Hendrickson approved components

**Lifts**
- Available for use on any of our axle products

**Literature reference - L823**
Lightweight lift axle mechanism adds operational flexibility, helps extend tire life and improves maneuverability

- Combine with INTRAAX®, VANTRAAX® and some HT models
- No chains, cables or metal-on-metal parts to wear or bind

Literature reference - L727

Optional UNDER BEAM LIFT™ (UBL™)

Responsive and consistent stopping power

- Foundation brake geometry designed for less S-cam windup and greater brake efficiency
- 16.5- and 15-in. sizes fit 22.5-, 24.5- and 19.5-in. wheel equipment
- Hendrickson Extended Service™ (HXS™) and wide HXS help increase operating efficiencies by extending intervals between brake services
- The industry’s first standard Cam Tube System™ for trailer suspensions helps extend the life of brake camshafts and bushings

Air Disc Brakes

- Provide consistent braking during extended braking application cycles such as descending long grades
- Improve stopping distances at high speeds
- Unique torque plate accommodates multiple disc brake designs
- Compatible with other advanced technologies such as roll stability systems (RSS) and electronically controlled braking systems (ECBS)

Literature reference - L889

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 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

Literature reference - L961
**COMPOSILITE™ FBC** (Truck - North America)
*Light-duty steerable lift axle system*
- Adjustable ride height and frame width feature allows stocking of one suspension for multiple vehicle requirements
- 31-degrees of wheel cut provides outstanding maneuverability
- Hub options available with six-hole or eight-hole hub accommodating a 17.5-in. or 19.5-in. tire
- Capacities up to 10,000 lbs. (4.5 t)

Literature reference - H669

**COMPOSILITE ST** (Truck / Trailer - North America)
*Lightweight steerable lift axle system*
- Adjustable ride height and frame width feature allows stocking of one suspension for multiple vehicle requirements
- 31-degrees of wheel cut provides outstanding maneuverability
- In-line air springs maximize packaging space and provide additional protection from road debris
- Capacity of 13,500 lbs. (6.1 t)

Literature reference - H650

**PARAREV™** (Truck - Global)
*Reverse steering lift axle system*
- Revolutionary system allows truck to steer automatically in both forward and reverse
- Increased maneuverability to help extend tire life
- Capacity rated up to 15,600 lbs. (7.1 t)

**PARALIFT™** (Truck - North America)
*Steerable lift axle system*
- Adjustable ride height and frame width feature allows stocking of one suspension for multiple vehicle requirements
- Single lift bag design provides greater maneuverability and improved performance
- Zero-torsion bushings help eliminate bushing windup and provide more consistent down force with reduced lift force resistance
- Available in kit form with no axle
- Capacity up to 20,000 lbs. (9.1 t)

Literature reference - H688

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**VOCATIONAL and HEAVY-HAUL Lift Axle Systems / Steerable**
COMPOSILITE™ FX (Truck / Trailer - North America)
*Lightweight, non-steer lift axle system*
- Compact package reduces space needed for operation
- Fabricated axle reduces suspension weight and maintains durability
- 13,500-lb. (6.1 t) capacity

Literature reference - H684

HLM-2™ (Truck / Trailer - North America)
*Heavy-duty, non-steer lift axle system*
- QUIK-ALIGN® reduces alignment time
- TRI-FUNCTIONAL® bushings for increased life span
- Self-shearing Torq-Rite nut to assure proper clamp load
- Capacities up to 25,000 lbs. (11.3 t)

Literature reference - H638

HLR™ Series (Truck - North America)
*High lifting, non-steer tag lift axle systems*
- High lift design provides significant ground clearance
- Ride springs protected by axle location
- Design allows greater clearance of vehicle undercarriage
- Capacities up to 13,000 lbs. (5.9 t)

Literature reference - H654

COMPOSILITE RO (Truck - North America)
*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 hanger improves clearance around the cylinder
- Also available in steerable version
- Capacities up to 13,500 lbs. (6.1 t)

Literature reference - H703

MLA2™+ (Truck - Europe)
*Lightweight mid-lift axle and air suspension system*
- The industry standard 6×2 solution
- Significant weight savings over twin-steer options with greatly reduced operating costs
- Wheel sizes 22.5, 19.5 and 17.5-in. on disc or drum brake axle applications
- Rated up to 8 t (18,000 lbs.)

Literature reference - H605

Value-added Options

**Lock Straight** — Locks suspension straight when vehicle is placed in reverse.

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

**Air Control Systems**
- Higher airflow delivers better response when air controls are activated
- Color-coded connections provide easy identification and reduce installation time
- Inside-the-cab, outside-the-cab and separated units available
PARASTEER™ (Global)
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
- 14,600-lb. (6.6 t) capacity

Literature reference - 45745-124

AIRTEK® (North America)
Integrated front axle and air suspension 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 RVs on the road and out of the shop
- Up to 55-degrees of wheel cut greatly improves maneuverability
- 10,000 to 14,600-lb. (4.5 to 6.6 t) capacity

Literature reference - 45745-194

SOFTEK® (North America)
Integrated front suspension and robotically welded steer axle 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
- 8,000 to 14,600-lb. (3.6 to 6.6 t) capacity

Literature reference - 45745-303

IFS™ (North America)
Independent front suspension designed for premium ride and handling for motorhome chassis

- Up to 57-degrees of wheel cut for exceptional maneuverability
- Shock and spring travel directly proportional to wheel travel, resulting in superior ride and handling
- Compatible with both disc and drum brakes
- Capacities of 12,600 and 14,600 lbs. (5.7 and 6.6 t)

Literature reference - 45745-303
COMFORT AIR® (Global)
Single-axle, rear air suspension designed for passenger and driver comfort in various bus applications
- Wide footprint of frame hanger reduces stress to the frame
- Suspension geometry improves ride and handling
- QUIK-ALIGN® simplifies axle alignment
- Capacities ranging from 15,000 to 23,000 lbs. (6.8 to 10.4 t)

HAS™ (Global)
Single-axle, rear air suspension
- 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 21,000 lbs. (9.5 t) for air configurations and 17,500 lbs. (7.9 t) for mechanical configurations

H-TAS™ (Europe)
Lightweight, two-bag, drive axle, air suspension system
- Suitable for medium-duty tractor and rigid applications
- Reduced weight, incorporating new technologies and materials
- Optional stabilizer bar for improved roll control in demanding applications
- Rated up to 7.5 t (16,500 lbs.)

HWS™ (Europe)
Lightweight, two-bag, drive axle, air suspension system
- Suitable for medium-duty rigid and tractor unit applications
- Reduced weight, incorporating new technologies and materials
- Optional stabilizer bar for improved roll control in demanding applications
- Rated up to 7.5 t (16,500 lbs.)

HTB™ (Global)
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 21,000 lbs. (9.5 t) for air configurations and 17,500 lbs. (7.9 t) for mechanical configurations

HAS™ Single-axle (Global)
Rear air suspension
- Range of models for medium-duty tractors, pick-up / delivery, beverage, bus and RV applications
- Excellent ride quality
- Durable bushings provide quiet operation and require no lubrication
- Low ride heights available
- Capacities ranging from 12,000 to 23,000 lbs. (5.4 to 10.4 t)
**Product Features**

**Parallelogram Suspension Technology —**
Parallelogram design* significantly controls suspension windup and corresponding frame rise. Driveline angles are maintained throughout axle travel, thereby helping to eliminate suspension induced driveline vibration and extend component life.

**Optimized System Geometry —**
To address growing demand for air suspensions across vocational applications, the suspension geometry is optimized to provide improved roll stiffness and handling for demanding applications like rear discharge concrete mixers.

**Easy Axle Alignment —**
Hendrickson’s proven QUIK-ALIGN® axle alignment system helps save time and money — offers a fast method to ensure proper alignment for improved tire life.

**STEERTEK Axle* —**
The box-shaped cross section resists horizontal, vertical and twisting forces more effectively than traditional I-beam axles. STEERTEK’s unique design provides significant weight savings compared to a traditional forged axle.

**Axle to Suspension Integration —**
The STEERTEK axle easily integrates with a variety of suspension configurations, allowing STEERTEK to serve as the platform for many proprietary and next generation front suspension systems.

**Two-piece Knuckle* —**
The unique two-piece design eliminates the need to remove the kingpin to service the knuckle. Steering and tie-rod arm attachments are integrated for increased strength and durability.

**VariRate® Spring System —**
The unique spring system in HAULMAAX® adjusts to the load — delivering the preferred combination of empty ride and loaded stability for vocational applications.

**D-pin Axle Connection —**
Decreases torsional axle stress for reduced maintenance and increased joint integrity.
- Integrated axle stop contact pads reduce axle stress
- Maintains clamp load to reduce the need for re-torque
- Axle welding eliminated for reduced axle stress

**Bar Pin End Connection —**
Hendrickson’s unique bar pin beam end connection extends service life and offers axle alignment capability for accurate wheel tracking and improved tire life.

*U.S. and foreign patents granted and / or pending.
Hendrickson features the largest and most diverse selection providing painted, brushed, polished and anodized aluminum — chromed and/or painted steel — solid stainless steel — AERO CLAD® and non-metal HENDRICKSON AERO BRIGHT® bumpers to the market place.

HENDRICKSON AERO BRIGHT®
Industry’s solution to a “chrome-like” non-metal bumper
- Brilliant “chrome-like” mirror finish
- High impact resistance and durability
- Lightweight and aerodynamic for better fuel economy
- Easy installation to factory mounts

AERO CLAD®
Stainless clad aluminum
- Lightweight for better fuel economy
- Bright mirrored finish — 10 times thicker than chrome plating
- Resists corrosion, cracking, pitting, peeling, rusting or fading
- Minor abrasions can be buffed
- Full five-year limited warranty

Hendrickson also provides a diverse offering of grill surrounds, sunvisors and bezels

Grill Surrounds

Sunvisors

Bezels

Also available in silver argent and paintable models
Protect your investment with **Hendrickson Genuine Parts**

Fleets and owner operators rely on Hendrickson quality from ride and stability to weight savings and dependability.

Whether it’s bushings, torque rods, air springs, shock absorbers, steel springs or bumpers, Hendrickson Genuine Parts and aftermarket components deliver the same quality and durability as those installed in OEM production models.

Hendrickson’s PRO-GENUINE™ service facility affiliation program consists of high-impact branded marketing material, comprehensive product training information, on-going technical support and periodic promotional opportunities — all designed specifically for the professional installer of Hendrickson Genuine Parts.

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**STEEL SPRINGS**

Hendrickson has been designing and manufacturing leaf springs for heavy-duty transportation applications since the 1920’s. From those first simple designs, Hendrickson emerged as the leader in reducing weight and improving ride quality, reliability and performance. Decades of engineering innovation and dedication to quality established Hendrickson as a leading global supplier of heavy-duty springs.

Hendrickson manufactures a diverse variety of parabolic, taper-leaf and multi-leaf springs designed to meet the rigid standards of OEMs all over the world.

**AIR SPRINGS**

Hendrickson is the world’s largest combined OE production installer and aftermarket re-distributor of air springs. We maintain our own brand of air springs to service Hendrickson truck, tractor and trailer suspensions and lift axle systems. Our air springs optimize the performance of each of our suspension models.

Visit [www.hendrickson-intl.com](http://www.hendrickson-intl.com) for all your aftermarket needs including our bumper and lift axle configurators, or call 1-866-755-5968.

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**SHOCKS**

Hendrickson shock absorbers are available worldwide to service Hendrickson truck, tractor and trailer suspensions and lift axle systems.

Hendrickson shocks provide specific strokes, seal designs, bore diameters and damping characteristics to enhance the performance of the entire system.

**BUSHINGS**

Hendrickson engineers all of our trailing-arm and beam-assembly bushings to provide peak system performance and maintain integrity with other suspension system components.

- **TRI-FUNCTIONAL® bushings** — Pioneered by Hendrickson, the unique bushing designs and material composition are critical to controlling horizontal, vertical and roll forces.

- **Walking-beam bushings** — Hendrickson offers a complete line of genuine center bushings, each designed for specific applications to help ensure maximum system performance. The unique Hendrickson bar pin beam end connection enhances service life and allows up to 3/8-in. axle alignment at the beam end to help improve tire life.

**AIR / ELECTRONIC VEHICLE CONTROLS**

Hendrickson manufactures innovative suspension systems for the commercial vehicle industry, so we insist on providing leading-edge air and vehicle controls. A variety of pneumatic and electronic controls are available.

**BRAKE COMPONENTS**

Hendrickson offers a wide variety of industry brake linings for trailer suspensions, including Hendrickson Extended Service™ (HXS®) linings for increased operating efficiencies for INTRAAX® and VANTRAAX®. Hendrickson offers a more efficient braking system utilizing a shorter S-cam and beam-mounted hardware. Standard on INTRAAX and VANTRAAX, Hendrickson’s Cam Tube System™ extends brake life and improves responsiveness by locking out contaminants.

**PIVOT CONNECTIONS**

Hendrickson trailer suspensions and select truck suspensions use pivot connection systems featuring QUIK-ALIGN® for long-life service and axle alignment precision.

**TORQUE RODS**

ULTRA ROD® torque rods were developed by Hendrickson engineers using the latest in technology and field experience to meet demanding OE standards. ULTRA ROD torque rods come in one- and two-piece configurations to meet your needs.
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Global Ride Solutions

Hendrickson is a world-class global manufacturer and supplier of truck, tractor and bus suspensions and heavy-duty springs; trailer suspensions, controls and non-integrated axles; lift axles, and bumpers and trim components to the commercial transportation industry.

www.hendrickson-intl.com


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