



- Front steer axle systems
- Rear suspension systems
- Advanced spring technology



Suspension Solutions

Hendrickson is a leading manufacturer and supplier of premium fire / rescue suspension components to global fire / rescue markets. Our legacy embodies over 100 years as a leading innovator and manufacturer of suspension systems and components for the global transportation industry. Utilizing world class design, testing and validation capabilities, Hendrickson provides robust solutions that feature the ride quality, vehicle handling and stability required for fire / rescue applications around the world.

FIREMAAX® EX

Heavy-duty rear air suspension system for fire and rescue applications

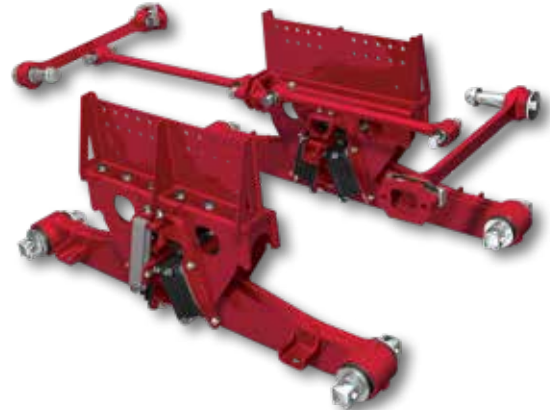
- Premium, heavy-duty rubber bushings require no lubrication
- Air springs and shock absorbers designed to package within tire envelope for protection from external damage
- Improved ride for equipment, vehicle and passenger protection
- Exceptional handling for greater control during road maneuvers
- Delivers up to twice the roll stiffness compared to other air suspensions
- Capacity up to 62,000 pounds



HAULMAAX® EX

Heavy-duty lightweight rear rubber suspension for fire and rescue applications

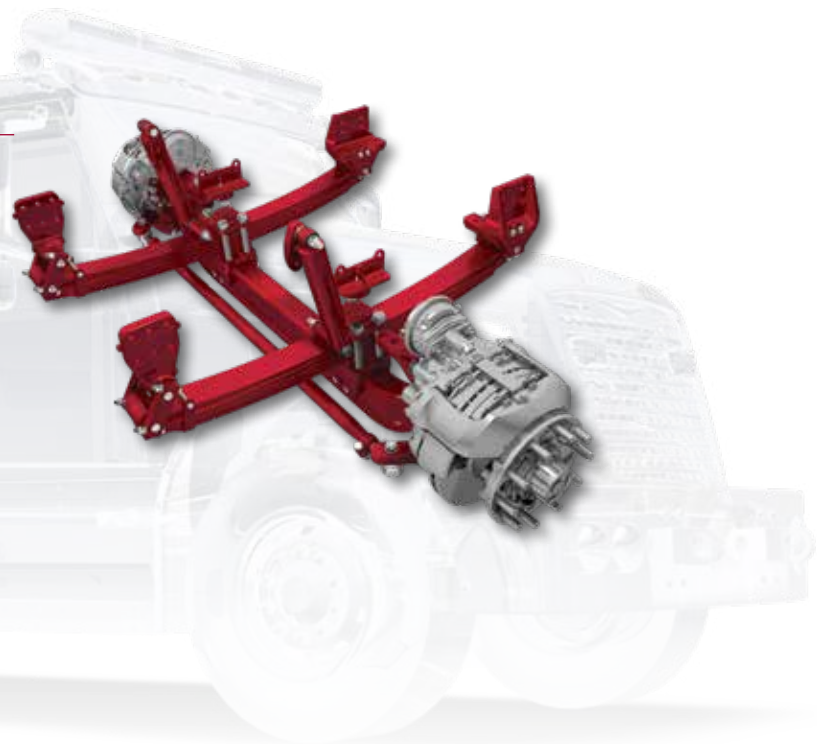
- Unique spring design that balances ride quality and apparatus stability
- Equalizing beams distribute load equally between both axles for improved traction
- Lightweight design is hundreds of pounds lighter than competitive suspensions
- Ratings approved for fire and rescue applications
- Capacity up to 54,000 pounds



STEERTEK™ NXT

High-capacity front steer axle and suspension system for fire and rescue applications

- Designed as a platform for next generation front axle and suspension systems
- Full system designed for optimal control under heavy braking, providing increased wheel travel and lower spring rate to improve ride quality
- Compatible with drum and disc brakes
- Provides weight savings vs. traditional forged I-Beam axles with multi-leaf spring packs
- Proprietary threaded pin bushings increase roll stiffness
- Capacity up to 24,000 pounds

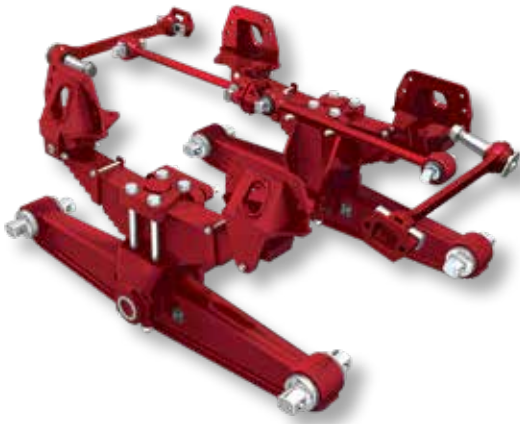


Suspension Solutions

RT™

Heavy-duty rear air suspension system for fire and rescue applications

- Equalizing beams distribute loads equally between both axles for improved traction
- Consistent spring rate for longer spring life
- Well suited for dump, refuse, mixer, mining and military applications
- Capacities of 40,000 and 46,000 lbs.



ROADMAAX®

Heavy-duty rear air suspension system for fire and rescue applications

- Provides consistent ride quality with varying vehicle loads
- Optimized configuration provides improved driver feel for increased handling and confidence when performing maneuvers
- Inboard or outboard shock options available
- Featuring TRAAX ROD® torque rods for exceptional performance life
- Capacities up to 35,000 pounds (single axle) and up to 70,000 pounds (tandem)



Steel Springs

Parabolic and Multi-Leaf

- Advanced materials developed by Hendrickson help maintain spring rate without degrading vehicle performance
- Spring designs that reduce weight by as much as 70 percent over conventional multi-leaf (flat) springs
- Uniquely tempered with proprietary heat treating process
- Reduced spring interleaf friction
- Numerous springs available to meet your application requirements



Important Factors to Consider When Selecting a Suspension



Handling

The vehicle's ability to perform double lane changes, tight turns and other emergency maneuvers.



Durability / Required Maintenance

Decreased downtime means less time in the repair shop and more time saving lives.



Ride Quality

The comfort of the driver, as well as a reduction in the wear and tear on the vehicle.



Road and Environmental Conditions

Poor roads and extreme environmental conditions have varying effects on suspension systems.



Chassis / Equipment Protection

Off-highway driving and road debris can expose suspension components to increased wear and tear.



Loaded to Unloaded Weight Difference

The correct suspension system will maintain excellent quality and performance under a variety of loading conditions.



	REAR SPRING SUSPENSION	REAR RUBBER SUSPENSION	REAR AIR SUSPENSION
Advantages	<ul style="list-style-type: none"> • Low cost • Readily available parts • Good serviceability • Can be used without transverse torque rods 	<ul style="list-style-type: none"> • Lower life cycle cost • Lower maintenance • Durability • Better corrosion protection • Improved ride quality over leaf spring design • Walking beams provide load sharing • Lighter weight than leaf spring design 	<ul style="list-style-type: none"> • Better equipment protection • Better ride quality • Similar ride quality for loaded or empty • Built in side-to-side leveling (no lean) • Maintain constant ride height
Considerations	<ul style="list-style-type: none"> • Durability and maintenance • Reduced equipment protection • Ride quality • Side-to-side load balancing may be required • Heavy 	<ul style="list-style-type: none"> • More expensive initial cost than leaf spring designs • Ride quality is less than air suspensions but greater than spring suspensions • Weight sensitive (loaded vs. unloaded) 	<ul style="list-style-type: none"> • More expensive than spring and rubber suspensions • Airbags are wear components • More complex installation
Application Suggestions	<ul style="list-style-type: none"> • Areas with roads well maintained • Empty to loaded axle weight is less than 10 percent 	<ul style="list-style-type: none"> • Ideal for harsh road and environmental conditions • Empty to loaded axle weight is less than 15 percent 	<ul style="list-style-type: none"> • Ideal for vehicles requiring premium equipment protection • Vehicle with large loaded to unloaded weight differences

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors. All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration. Contact Hendrickson for additional details regarding specifications, applications, capacities, operation, service and maintenance instructions.

Call Hendrickson at **630.910.2800** or **855.RIDERED (743.3733)** for additional information.



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