

**MAAX**IMIZE STABILITY

**MAAX**IMIZE EQUIPMENT PROTECTION

**MAAX**IMIZE DURABILITY

**Higher Capacities  
Now Available  
27K Single Axle  
54K Tandem Axle**



**H FIREMAAX™**  
Heavy-duty Air Suspension



*For The Road Ahead™*

**H HENDRICKSON**

# **FIREMAAX™** Heavy-duty Air Suspension

## Genuine Hendrickson Torque Rods

- Three-rod configuration per axle reduces axle stress, welding and complexity
- Maintain axle position and pinion angle throughout axle travel
- Premium rubber bushings increase service life
- Designed for optimum wheel-end clearance and articulation

## Inboard Air Spring Support Brackets

- Protect air springs during extreme maneuvers or when outriggers are used

## Air Springs

- Large volume, low frequency design for improved ride
- Equalize load between axles in uneven terrain

## Support Beams

- Rugged forged design for peak loading and greater durability
- Robust rubber bushing designs improve service life and eliminate lubrication requirements

## QUIK-ALIGN®

- Allows for easy axle alignment without shims
- Reduces maintenance time and helps extend tire life

## Axle Connections

- D-pin axle connection decreases torsional axle stress for reduced maintenance and increased joint integrity
- Integrated axle stop contact pads reduce axle stress
- Axle welding eliminated for reduced axle stress

## Shock Absorbers

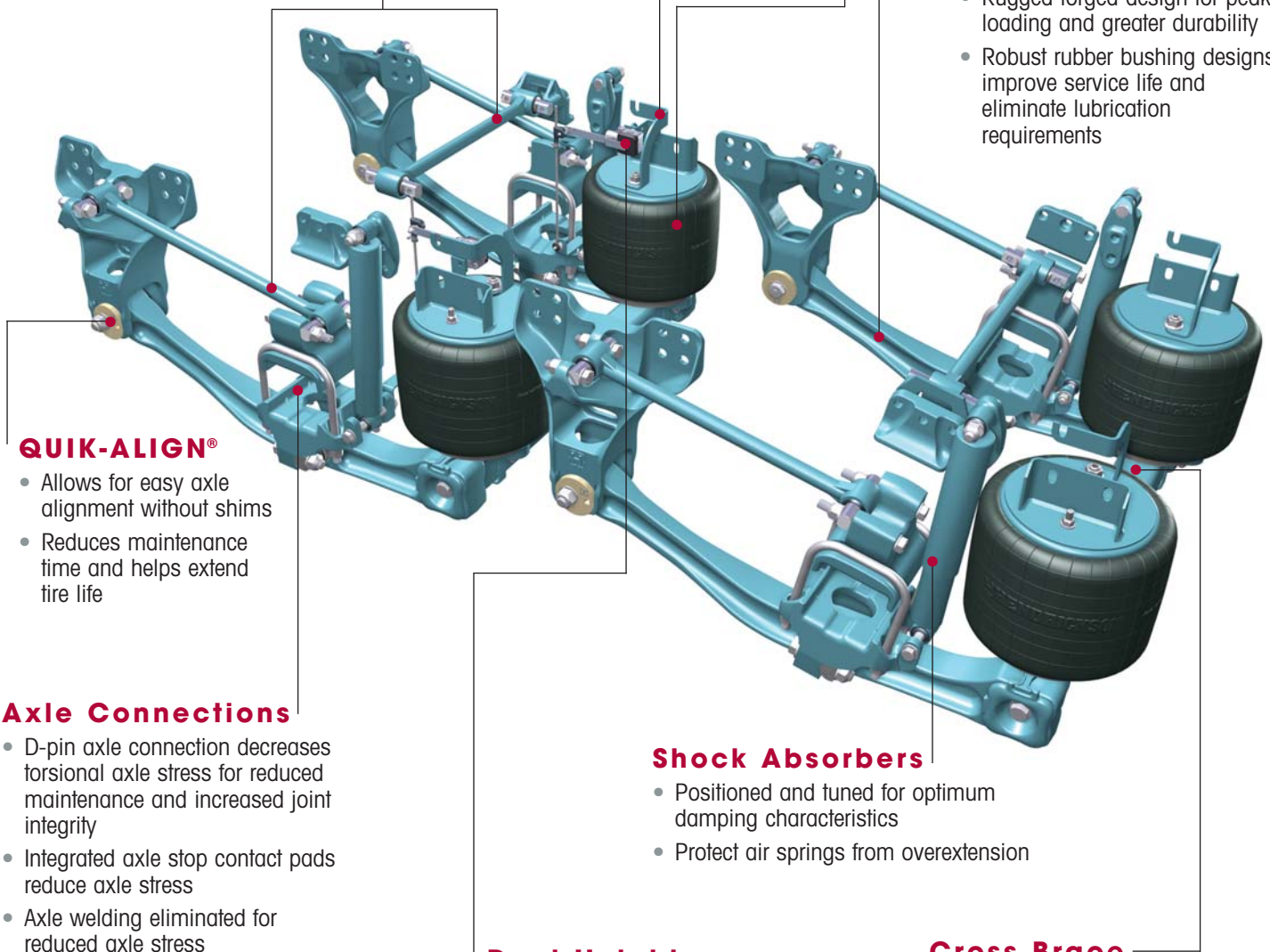
- Positioned and tuned for optimum damping characteristics
- Protect air springs from overextension

## Dual Height Control Valves

- React quickly to maintain proper ride height for shifting loads

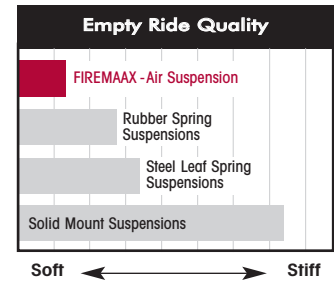
## Cross Brace

- Seamless drawn fabrication technology forms a robust torsion system with forged support beams, improving stability
- Integrated air spring mounts



# MAXIMIZE Ride Comfort and Vehicle Protection

The FIREMAAX™ heavy-duty rear air suspension provides a package of benefits previously unavailable in any one emergency vehicle air-ride suspension. Its outstanding ride produces superior driver and passenger comfort while helping to protect critical, life-saving equipment and costly electronic components from excessive vibration and road shock.



# MAXIMIZE Stability and Handling



Stabilizer System

FIREMAAX provides enhanced stability for demanding fire / rescue vehicle applications, delivering up to twice the roll stiffness as other air-ride suspensions.

Forged support beams and a square cross brace interact through a robust connection to form a rigid torsion and stabilizer system. This integrated feature delivers greater stability and improved control during tight road maneuvers and lane changes.

# MAXIMIZE Maintenance and Durability



Parallelogram Design

- Unique suspension geometry — Parallelogram design significantly controls suspension windup and corresponding frame rise. Driveline angles are maintained throughout axle travel, thereby reducing suspension-induced driveline vibration
- 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



QUIK-ALIGN® — By rotating the eccentric collar clockwise or counter-clockwise, the suspension's axle is moved fore or aft ± 1/2 inch.

- D-pin axle connection and clamp group — Reduce stress input into the axle housing by transferring the torsional loads to the integrated stabilizer system, which helps extend axle and joint service life
- Axle stop — Engages clamp group top pad, reducing axle forces and stresses
- Large volume air springs — Reduce noise, vibration and harshness to cab, chassis and body equipment for reduced total vehicle maintenance
- Air spring and shock absorbers — Designed to package within the envelope of the tire for protection against damage



Heavy-duty bushing

- Heavy-duty torque rods and bushings — Performance tested for longer service life
- Heavy-duty rubber bushings — Improve service life and eliminate lubrication requirements



Protected shock and air spring (shown with 11R 22.5 tire)

# FIREMAAX™ Specifications

	FMX 240	FMX 270	FMX 480	FMX 540
Capacity	24,000 lbs.	27,000 lbs.	48,000 lbs.	54,000 lbs.
Installed Weight <sup>1</sup>	510 lbs.	650 lbs.	1,013 lbs.	1,300 lbs.
Axle Configuration	Single	Single	Tandem	Tandem
Axle Travel <sup>2</sup>	8 in.	8 in.	8 in.	8 in.
Ground Clearance <sup>3</sup>	10.75 in.	10.75 in.	10.75 in.	10.75 in.
Ride Heights <sup>4</sup>	8.5 in. - 15.5 in.	8.5 in. - 10.5 in.	8.5 in. - 15.5 in.	8.5 in. - 10.5 in.
Engine Torque Restrictions	None	None	None	None
Axle Spacing	N/A	N/A	52 in. to 72.5 in.	54 in. to 72.5 in.

- FIREMAAX™ capacity rating applies to fire and rescue market only
- FIREMAAX may be referred to as PRIMAAAX® by some OEMs
- Refer to Hendrickson's technical literature for complete operating details

1. Installed weight includes complete suspension, torque rods, axle and frame brackets and all hardware. Published weight is based on a standard FIREMAAX suspension using 10.0-inch ride height. Other configurations may change weight.

2. Axle travel may be limited by vehicle manufacturer; axle stop settings and shock stroke may restrict suspension's articulation.

3. Ground clearance is based on a standard FIREMAAX suspension with 11R22.5 tire size.

4. For different options, please contact Hendrickson (630.910.2800), your truck manufacturer or your dealer for further information.

U.S. and foreign patents granted and pending.

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



*Hendrickson Genuine Parts are the same quality components installed in Hendrickson original equipment suspensions — consisting of the same design, construction, performance and durability. There's only one way to maintain and protect your suspension's original performance. Ask for the name that is synonymous with the finest manufactured suspensions in the world — Hendrickson.*

[www.hendrickson-intl.com](http://www.hendrickson-intl.com)



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