

H PRIMAAX® EX / COMPOSILITE® EXS

Air Suspension Solutions
for Front Discharge Mixers

In a market that requires durable, lightweight suspensions, PRIMAAX® EX severe-duty vocational air suspension and COMPOSILITE® EXS steerable lift axle suspension systems deliver outstanding performance and reliability. Rugged, dependable and extensively tested in challenging applications, PRIMAAX EX and COMPOSILITE EXS set a strong foundation for suspension technology.



PRIMAAX® EX



COMPOSILITE® EXS



To learn more about PRIMAAX EX
and COMPOSILITE EXS, visit
www.hendrickson-intl.com

H HENDRICKSON
The World Rides On Us®

H PRIMAAX[®] EX Severe-Duty Vocational Rear Air Suspension

PRIMAAX[®] EX is a severe-duty vocational air suspension designed to provide uncompromising durability, roll stiffness and vehicle protection in demanding mixer applications. The versatile, weight-efficient system adjusts to variations in load and road conditions for optimal ride and performance. Utilizing a structurally robust design with optimized suspension geometry, PRIMAAX EX delivers greater stability and handling in tight road maneuvers and increased traction for off-highway mobility.

Genuine Hendrickson Torque Rods

- Three-rod configuration reduces axle stress, welding and complexity
- Optimized configuration helps improve handling and roll stiffness
- Premium retained rubber bushings for increased service life
- Designed for optimum wheel-end clearance and articulation
- Alternative rods available for disc brake applications

Air Springs

- Large volume, low-frequency designed for improved ride
- Advanced design air springs lift and support the load with less air pressure

Cast Structural Beams

- Utilize premium materials to improve durability
- Maintenance-free connection with the cross beam for increased uptime
- Integrated end caps for increased reliability
- Robust rubber bushings improve service life and eliminate lubrication requirements
- Designed for increased disc brake clearance and compatibility

QUIK-ALIGN[®] Pivot Bushing

- 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
- Torque rod bar-pin connection increases reliability and reduces maintenance time

Height Control Valve

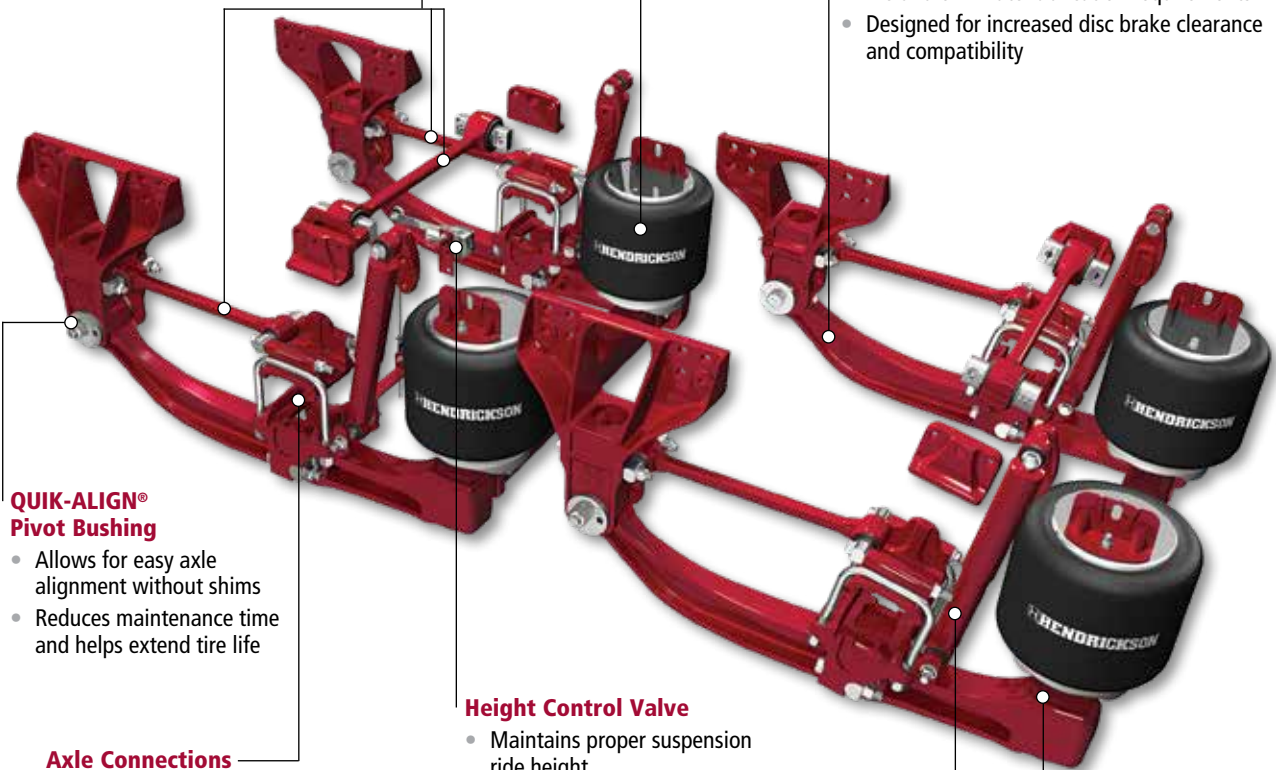
- Maintains proper suspension ride height
- Twin height control valves available for improved leveling (if required)

Heavy-Duty Shock Absorbers

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

Cross Beams

- Seamless fabrication technology forms a robust torsion system with cast structural beams, improving stability
- Integrated air spring mounts
- Increased ground clearance versus similar air suspensions



H COMPOSILITE® EXS Steerable Lift Axle Suspension

The COMPOSILITE® EXS series of lift axle suspensions deliver the advantages haulers have come to expect with Hendrickson products, with features and benefits that provide reliability, cost-effectiveness and innovation. Hendrickson has implemented an inset lower beam design to provide built-in lateral stiffness. A traditional tie rod comes standard. The popular Compliant Tie Rod System (CTR™) is available as an option, specifically for lift axles in the tag or rear position of the chassis.

COMPOSILITE® EXS Suspension Systems

EXS13K

Inset Lower Beams

- Optimized lateral stiffness
- Eliminates the need for V-rod

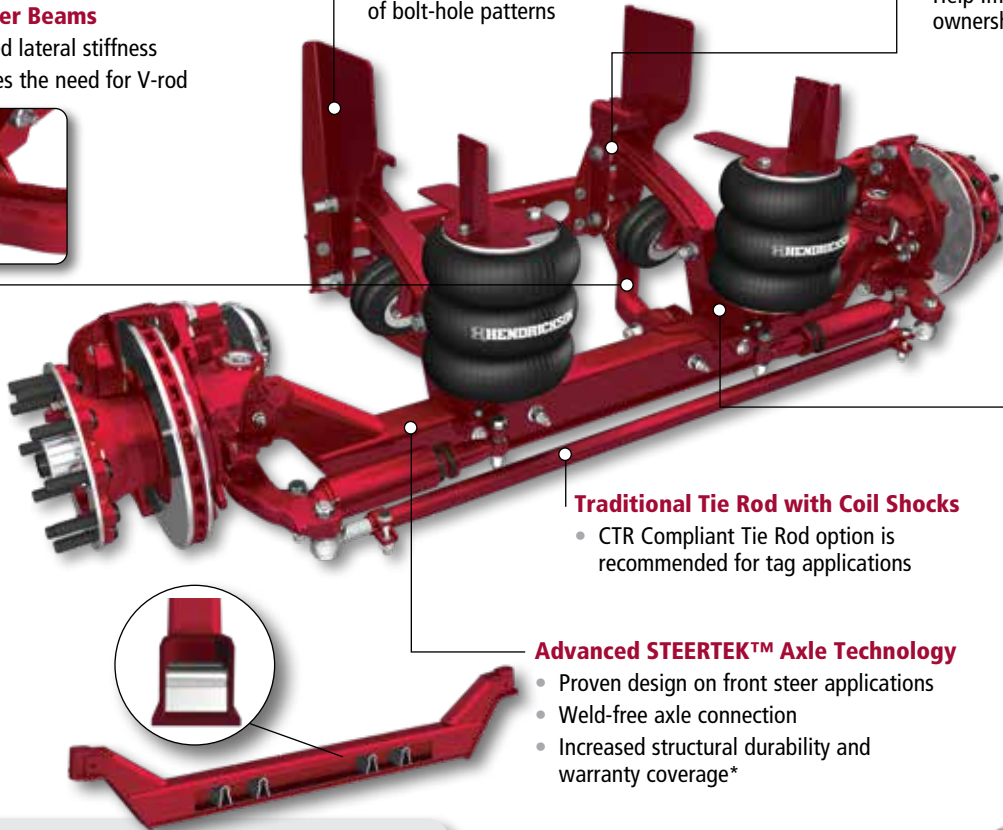


Weld-Free Hanger Design

- No welding on front side rail hangers minimizes stress risers
- Flat hanger design allows for flexibility of bolt-hole patterns

Zero-Torsion Rubber Bushings

- Offer increased durability and bushing life
- Help Improve overall cost of ownership with less downtime



Traditional Tie Rod with Coil Shocks

- CTR Compliant Tie Rod option is recommended for tag applications

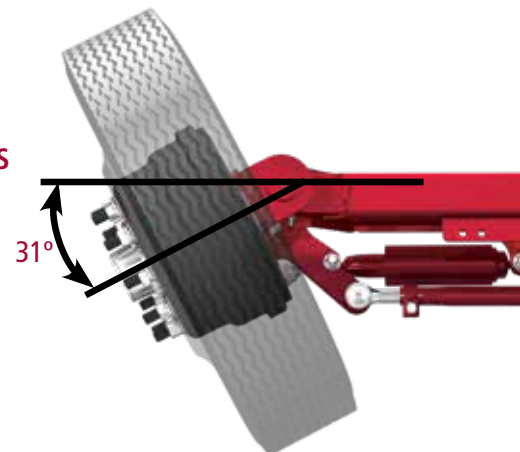
Bolt-On Axle Seats

- Easier serviceability for ride height changes or altering tire sizes
- Less costly repairs — change seats, not axle
- Help Lower cost of ownership

Advanced STEERTEK™ Axle Technology

- Proven design on front steer applications
- Weld-free axle connection
- Increased structural durability and warranty coverage*

COMPOSILITE EXS Wheel Cut



EXS13K Specifications

Capacity:	Up to 13,500 pounds
Weight:	922 pounds
Travel:	13 inches
Lift:	10 inches
Wheel Cut:	31 degrees
Packaging Space:	22.1 inches

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

PRIMAAX® EX Suspension Specifications

	PAX 462	PAX 522
Capacity	46,000 lbs.	52,000 lbs.
Installed Weight ¹	1,078 lbs.	1,292 lbs.
Axle Configuration	Tandem	Tandem
Job Site Travel Rating ²	60,000 lbs.	66,000 lbs.
Axle Travel ³	8 in.	8 in.
Ground Clearance	10.75 in.	10.5 in.
Lift Axles	Approved	Approved
Ride Heights ⁴	8.5 - 10.5 in. 12.5 - 15.5 in.	8.5 - 10.5 in. 12.5 - 15.5 in.
Engine Torque Restrictions	None	None
Axle Spacing	52 to 72.5 in.	54 to 72.5 in.



PRIMAAX EX is approved for vocational and heavy-haul vehicle applications, including front discharge mixers. 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 and the vehicle manufacturer for approval of additional applications.

1. Installed weight includes complete suspension, torque rods, axle and frame brackets and all hardware. Published weight is for standard PRIMAAX EX suspension using 15.5-inch ride height. Other configurations may change weight.
2. Job site travel rating — operators using vehicles equipped with liftable push or tag axles must not exceed published ratings. Ratings are limited to no more than five percent of vehicle operation at a speed not to exceed five mph. Liftable or tag axles should be raised (or unloaded) to improve vehicle maneuverability in off-road use or when vehicle is empty. Job site travel ratings are consistent with specifications and must not be exceeded.
3. Axle travel may be limited by the vehicle manufacturer; axle stop settings and shock stroke may restrict suspension's articulation. Varying ride heights and configurations may restrict travel.
4. Ride heights shown are for PRIMAAX EX Tall configurations. For different ride height options, please contact Hendrickson, your truck manufacturer or dealer for further information.

For additional details regarding specifications, applications, capacities, and operating, service and maintenance instructions, refer to applicable Hendrickson technical literature (available at www.hendrickson-intl.com) or contact Hendrickson at 630-910-2800.

COMPOSILITE® EXS Suspension Specifications

MODEL	MAXIMUM CAPACITY (lbs.)	APPLICATION WEIGHT (lbs.)	RIDE HEIGHTS (inches +/- 1.0")	HANGER TO AXLE SPACING (inches)	Wheel Cut (degrees)
EXS08	8,000	831	8.5 - 20.5	22.1	25
EXS10	10,000	872	8.5 - 20.5	22.1	25
EXS13	13,500	972	8.5 - 20.5	N/A	31
EXS20	20,000	1,470	8.5 - 20.5	25.5	22



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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, and operation, service and maintenance instructions.

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



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