

OPTIMIZE fuel economy
and weight savings on the
Cascadia® by Freightliner®



Hendrickson's OPTIMAAX® system is an innovative 6x2 solution to help fleets save fuel cost, tire wear and weight with comparable handling to 6x4 tandem axle configurations. Operating as a liftable axle in the forward tandem position, this system provides versatility for fleets with variable loads. The OPTIMAAX system is ideal for fleets in need of additional flexibility for on-highway tractor applications.



To learn more about OPTIMAAX,
call 855.743.3733 or visit
www.optimaax.com

H HENDRICKSON
The World Rides On Us®

H OPTIMAAX[®] System Features and Benefits

- **OPTIMIZE Automated Controls**

Proprietary program logic controls lift axle movement, load transfer

- Fully automated controls eliminate driver intervention
- Automates axle lowering and lifting by sensing load capacities

- **OPTIMIZE Savings**

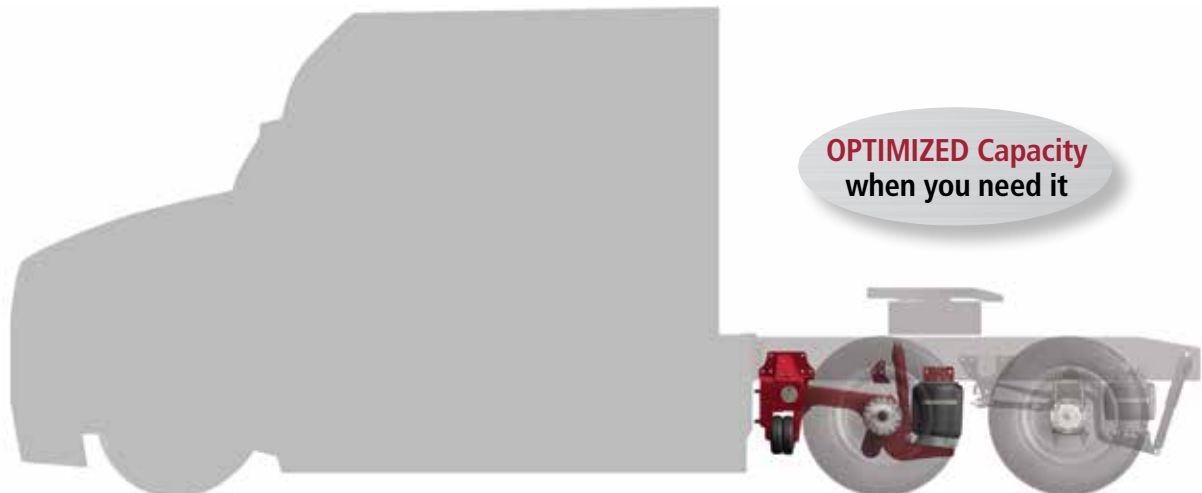
Axle configuration saves weight and can help improve fuel economy

- Save up to 400 pounds versus traditional 6×4
- Promotes fuel economy improvement through eliminating one drive axle (6×2 configuration)
- Helps provides fuel economy improvement through lifting the non-drive axle (4×2 configuration)
- Lifted axle saves on tire wear to help reduce tire maintenance costs
- Potential savings on toll charges

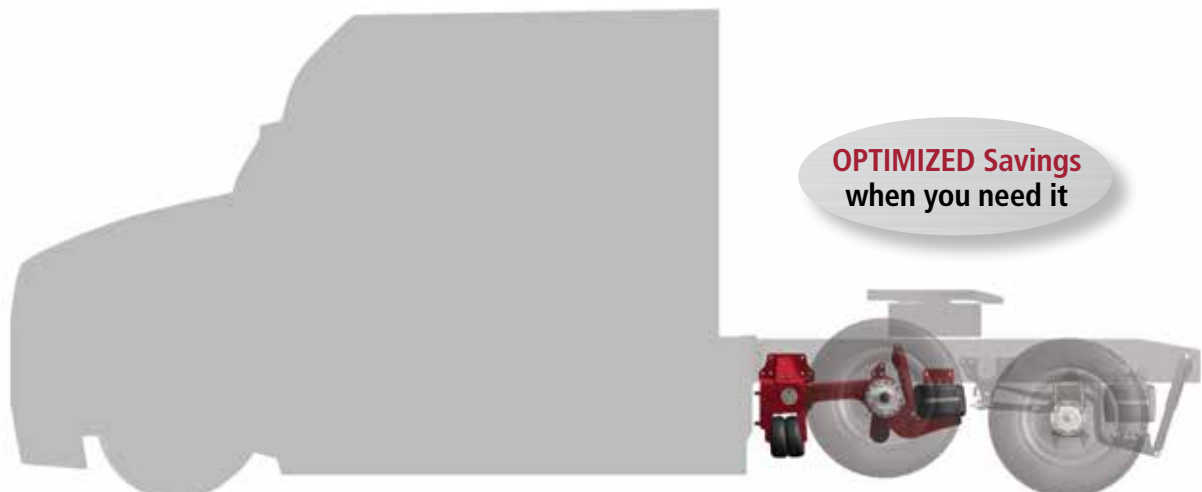
- **OPTIMIZE Traction and Handling**

Lifted axle provides increased traction by increasing drive axle load

- Improved traction when backing under trailers in soft soil or wet conditions versus traditional 6×2
- Maintains vehicle handling characteristics by keeping the drive axle behind the fifth wheel



Axle lowered for 6×2 configuration — The OPTIMAAX system senses higher load conditions and lowers the non-drive axle



Axle lifted for 4×2 configuration — The OPTIMAAX system senses lighter load conditions and lifts the non-drive axle

OPTIMAAX® Features and Benefits for Cascadia®

OPTIMAAX®

- Ideal for diminishing load carriers such as: bulk haulers, grocery, livestock, beverage or applications experiencing empty back hauls
- Includes integrated lift axle, suspension and automated controls

Axle

- Lifiable forward tandem 20,000 pound capacity
- 9-inch drop maximizes ground clearance

Shock Absorber

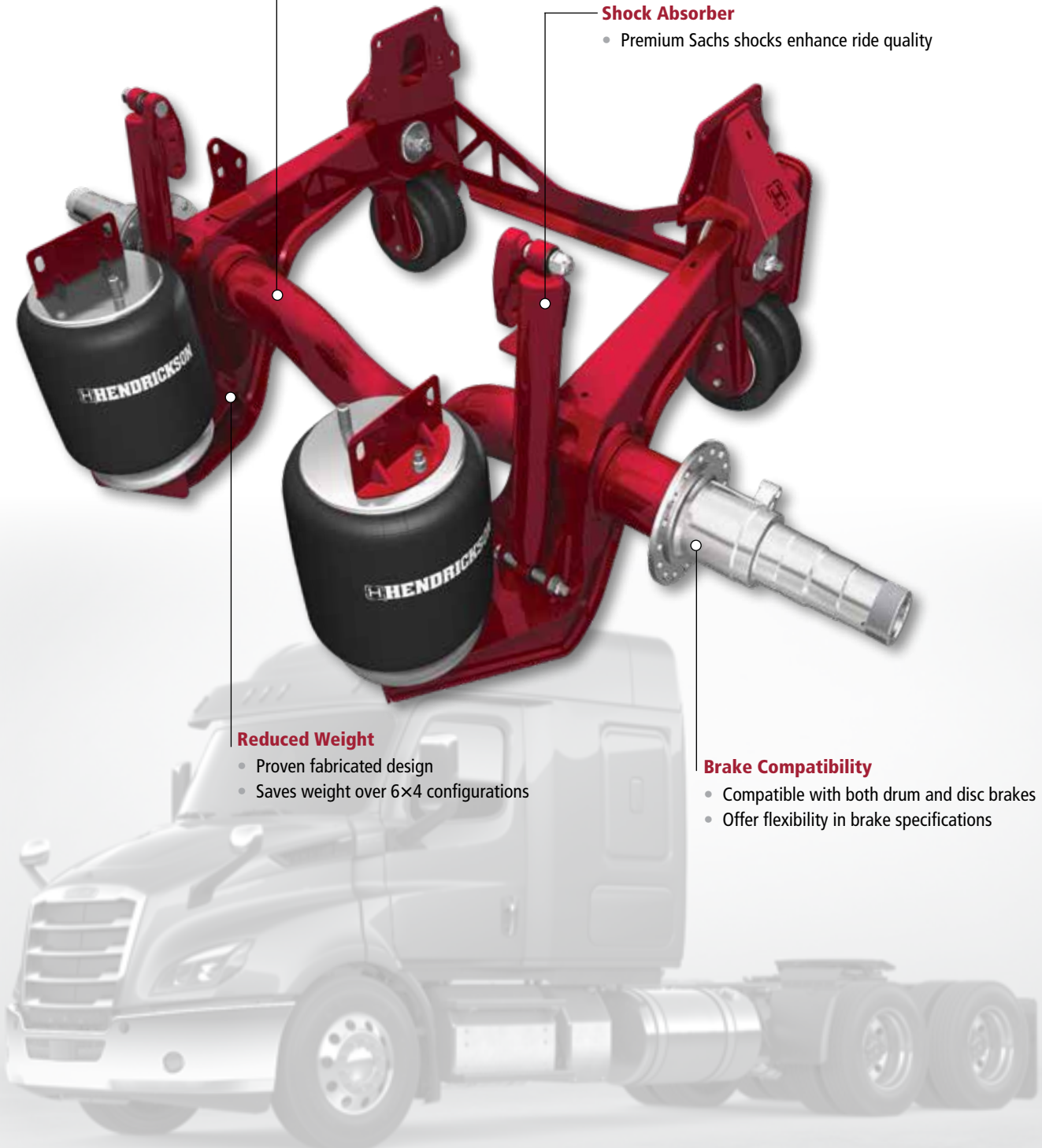
- Premium Sachs shocks enhance ride quality

Reduced Weight

- Proven fabricated design
- Saves weight over 6×4 configurations

Brake Compatibility

- Compatible with both drum and disc brakes
- Offer flexibility in brake specifications



OPTIMAAX® Application and Configuration Information

APPROVED APPLICATIONS	APPLICATION NOTES
General freight (van or flatbed)	
Refrigerated	No swinging meats
Livestock	
Bulk	Review weight on tractor tandem with empty trailer
Beverage	Review weight on tractor tandem with empty trailer

APPROVED REGIONS
USA
Mexico
South America

The Hendrickson OPTIMAAX® electronic control unit (ECU) is programmed to deploy / lower the liftable forward tandem axle when a fixed, pre-set drive axle load threshold is reached. The controller is pre-set at the vehicle OEM's factory for a truck's specific configuration. The deployment is designed to prevent the steer axle from becoming overloaded.

OPTIMAAX ECUs are available with deployment thresholds ranging from 13,000 to 20,000 pounds. The deployment threshold is dependent on the truck's specific configuration.

To maximize the benefits of the OPTIMAAX system, the truck should be configured to allow for the highest deployment threshold of the OPTIMAAX axle.

The following should be considered when configuring a truck to allow for the highest deployment threshold to be set by the vehicle OEM:

- Higher capacity steer axle (e.g. 13.3K AIRTEK® NXT)
- Restricting forward-most 5th wheel position
- Reducing fuel capacity
- Reducing overall weight



*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.



TRUCK COMMERCIAL VEHICLE SYSTEMS
800 South Frontage Road
Woodridge, IL 60517-4904 USA
855.RIDERED (743.3733)
630.910.2800 • Fax 630.910.2899



www.freightliner.com