Hendrickson’s OPTIMAAX® system is an innovative 6×2 solution to help fleets save fuel cost, tire wear and weight with comparable handling to 6×4 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.
### 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*
  - 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

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

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

Shock Absorber
- Premium Sachs shocks enhance ride quality

Brake Compatibility
- Compatible with both drum and disc brakes
- Offer flexibility in brake specifications
OPTIMAAX® Application and Configuration Information

<table>
<thead>
<tr>
<th>SUSPENSION MODEL</th>
<th>SYSTEM CAPACITY (pounds)</th>
<th>GCW APPROVAL (pounds)</th>
<th>SERVICE ON / OFF HIGHWAY</th>
<th>TRACTOR</th>
<th>STRAIGHT TRUCK</th>
<th>SITE RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTIMAAX</td>
<td>20,000</td>
<td>80,000</td>
<td>On-Highway</td>
<td>Yes</td>
<td>No</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**APPROVED APPLICATIONS**

- General freight (van or flatbed)
- Refrigerated
- Livestock
- Bulk
- Beverage

**APPLICATION NOTES**

- No swinging meats
- Review weight on tractor tandem with empty trailer
- 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 11,000 to 18,000 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 or greater)
- Restricting forward-most 5th wheel position
- Reducing fuel capacity
- Reducing overall weight

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

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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.hendrickson-intl.com

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