In a market that requires durable, lightweight suspensions, Haulmaax® heavy-duty vocational suspension and Composilite® SC steerable or FX non-steerable lift axles deliver outstanding performance and reliability.
HAULMAAX® Heavy-Duty Vocational Rubber Suspension

**MAAXimize Payload and Durability**

Suspension weight is reduced for greater payloads and improved durability through innovative design, higher strength materials and advanced manufacturing methods. Proven with extensive vehicle durability and laboratory testing, HAULMAAX® delivers the reliability and quality you’ve come to expect from Hendrickson, the leader in suspension technology.

**Hendrickson Rods**
- Improve cornering by controlling lateral forces
- Transverse rods ensure maximum lateral axle control and straight line suspension stability
- Longitudinal rods engineered to optimize resistance to wind up during acceleration and braking

**Progressive Load Spring**
- Newly designed to always engage for smoother ride and additional stability
- Eliminates shim adjustments for lower maintenance**

**Premium Rubber Bolster Springs**
- The unique design works with the Progressive Load Spring to deliver unparalleled empty ride quality and loaded stability

**Saddle and Frame Bracket**
- Lightweight, modular design simplifies installation

**Equalizing Beam**
- Formed and robotically-welded beam provides a narrow profile for weight savings
- Distributes load equally between both axles for improved maneuverability, stability and handling
- Lowers the center of gravity to increase stability
- Establishes a solid axle connection for improved handling
- Center bushing eliminated for reduced maintenance

**Bar Pin End Connection**
- Rugged axle connection extends bushing life and allows easy axle alignment and serviceability

**Shock Absorbers**
- Provide additional driver comfort
- Required for tractor applications
- Available as production or aftermarket options

**46,000 lbs. Weight Comparison***

- **HAULMAAX®**
- **HN® Chalmers**
- **RT™**
- **Steel Spring Trunnion**

* Weight includes the suspension system and related components. Above data is based upon internal testing and/or published specifications. Actual product specifications and performance may vary depending upon suspension and vehicle configuration, operation, service and other factors.
** For most applications.
COMPOSILITE® SC was designed with features to assist both installers and end users alike. During installation, COMPOSILITE SC offers the versatility of a shorter, cleaner lift axle package for front discharge mixer configurations. In the field, end users get the benefits of increased payload due to the COMPOSILITE SC’s lightweight design. In addition, the PACE Award winning CTR Compliant Tie Rod provides reduced maintenance, less lubrication, less downtime, less replacement components and with built-in design features geared toward absorbing road undulations and improved maneuverability.

**Adjustable Frame Width Feature**
- Allows stocking of one suspension to meet frame width requirements of 33.5 to 34.5 inches

**Optimized Package Design**
- Allows for multi-axle configurations and provides drive-line clearance and free space for other vehicle obstructions
- 22.1-inch package space
- Shorter trailing arms
- Shorter side rail

**Integrated Knuckle**
- Adjustable for custom requests
- Provides weight reduction and allows for steering arm and tie rod manufacturing flexibility

**CTR with PerfecTrak™ Technology**
- Helps reduce the cost of ownership with less replacement items, less maintenance and less vehicle downtime
- Coil spring eliminated to improve damper life
- Winner of 2012 PACE Award for Innovation
- Reliable wheel-end centering
- Effectively resists permanent deformation
- Easy toe adjustments
- Lubrication-free connection
- 3-year limited warranty package*

**Adjustable Ride Height**
- Accommodates a 4-inch ride height range

**COMPOSILITE SC Steerable Turning Angle**
- 31°

* Contact your local Hendrickson representative for complete warranty terms, conditions and limitations.
## HAULMAAX® Specifications

**HMX 400**

<table>
<thead>
<tr>
<th>HMX 400</th>
<th>HMX 460</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Installed Weight</strong>&lt;sup&gt;1&lt;/sup&gt; (54 in. axle spacing)</td>
<td>855 lbs.</td>
</tr>
<tr>
<td><strong>Suspension Rating</strong></td>
<td>40,000 lbs.</td>
</tr>
<tr>
<td><strong>GVW Approval</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>73,000 lbs.</td>
</tr>
<tr>
<td><strong>GCW Approval</strong></td>
<td>160,000 lbs.</td>
</tr>
<tr>
<td><strong>Site Travel Rating</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>55,000 lbs.</td>
</tr>
<tr>
<td><strong>Diagonal Articulation</strong>&lt;sup&gt;4&lt;/sup&gt;</td>
<td>17 in.</td>
</tr>
<tr>
<td><strong>Lift Axles</strong></td>
<td>Approved</td>
</tr>
<tr>
<td><strong>Ride Heights (loaded)</strong>&lt;sup&gt;5&lt;/sup&gt;</td>
<td>9.5 in., 10.5 in., 11.5 in., 13.25 in., 15.5 in.</td>
</tr>
<tr>
<td><strong>Axle Spacing</strong>&lt;sup&gt;6&lt;/sup&gt;</td>
<td>52 in., 54 in., 60 in., 72.5 in.</td>
</tr>
<tr>
<td><strong>Shock Absorber Applications</strong>&lt;sup&gt;7&lt;/sup&gt;</td>
<td>Tractors, Logging</td>
</tr>
</tbody>
</table>

## COMPOSILITE® SC Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM CAPACITY (lbs.)</th>
<th>APPLICATION WEIGHT (lbs.)</th>
<th>RIDE HEIGHTS (inches +/- 1&quot;)</th>
<th>TRAVEL (inches)</th>
<th>LIFT (inches)</th>
<th>WHEEL CUT (degrees)</th>
<th>PACKAGING SPACE (inches)</th>
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<tbody>
<tr>
<td>SCT08</td>
<td>8,000</td>
<td>735</td>
<td>12.5 - 20.5</td>
<td>13</td>
<td>10</td>
<td>31</td>
<td>22.1</td>
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<tr>
<td>SCT10</td>
<td>10,000</td>
<td>735</td>
<td>12.5 - 20.5</td>
<td>13</td>
<td>10</td>
<td>31</td>
<td>22.1</td>
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<tr>
<td>SCT13</td>
<td>13,500</td>
<td>848</td>
<td>8.5 - 18.5</td>
<td>13</td>
<td>10</td>
<td>31</td>
<td>22.1</td>
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<tr>
<td>SCT20</td>
<td>20,000</td>
<td>1,357</td>
<td>9.5 - 13.5</td>
<td>12</td>
<td>9</td>
<td>25</td>
<td>26.5</td>
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<tr>
<td>SCH - High Lift</td>
<td>13,500</td>
<td>1,133</td>
<td>10.5 - 20.5</td>
<td>Up to 24</td>
<td>Up to 20</td>
<td>27</td>
<td>28.4</td>
</tr>
</tbody>
</table>

Hendrickson approves the use of HAULMAAX in the following vocational truck applications: dump, concrete mixer, refuse, logging, crane / boom, platform and fire / rescue. All such applications must comply with applicable Hendrickson specifications and must also be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.

1. Installed weight includes complete suspension, torque rods, axle brackets and frame brackets; add 31 lbs. for shock absorbers.
2. Contact Hendrickson for applications that may exceed GVW approval ratings.
3. Site travel rating — operators using vehicles equipped with liftable pusher or tag axles must not exceed published ratings. Ratings are limited to no more than five percent of vehicle operation at speed not to exceed five mph. Liftable pusher or tag axles should only be raised (or unloaded) to improve vehicle maneuverability in off-road use or when vehicle is empty. Site travel ratings are consistent with published axle manufacturer’s limitations. Axle and suspension site travel specifications must not be exceeded.
4. Suspension articulation may exceed vehicle’s capability and may be limited by vehicle manufacturer; vehicle manufacturer installed axle stops may restrict suspension’s articulation.
5. HAULMAAX ride height measurements are taken from the centerline of the axle to the bottom of the truck frame.
6. Contact Hendrickson for availability of beam lengths.
7. Shock absorbers are required in tractor and logging applications. Ride and traction may be improved in other applications with shock absorbers. Ride performance can be subjective and may be dependent on many factors beyond the suspension design such as cab suspension, road conditions, body/auxiliary equipment, frame specifications, etc. Contact Hendrickson or your truck manufacturer/dealer for further information.

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