

- Outstanding reliability
- Low-maintenance, long-life components
- Lightweight for increased payload
- Wide range of applications
- Superior ride quality



**Top Mount Drum
13.6t**



**Low Ride
Drum 12t**

Long-Life Wheel-Ends

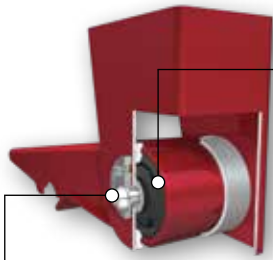


**Top Mount Disc
12t**



To learn more about HSDS, call Hendrickson or visit our global websites for additional information.

HSDS® Features and Benefits



TRI-FUNCTIONAL® Bush

- Controls vertical, horizontal and roll forces of trailer
- Optimises ride softness, control and stability
- Absorbs road shock while maintaining lateral tracking and superior roll resistance

Heavy-Duty Shock Absorbers

- Higher damping helps reduce road vibrations

QUIK-ALIGN® Pivot Connection

- Fast and easy axle alignment
- Requires no welding or special tools

Large Heavy-Duty Air Springs

- Mounted close to the axle
- Superior ride quality

Wheel-Hub

- Heavy-duty hub design

Outboard Mounted Brake Drum

- Allows brake service without disturbing wheel-end bearings and seals

High-Quality HXS™ Brake Lining

- High-quality, thicker HXS brake lining helps improve lining life and extend service intervals

Internally Vented Wheel-End

- Filter system to dissipate heat and to help prevent contamination from entering wheel-end

- Large volume of semi-fluid grease for extended bearing life

- Parallel spindle with large diameter, high-quality, heavy-duty bearings

PRECISION320® Nut System

- For ultra-precise bearing adjustment
- Extended bearing and wheel seal life



Cam Tube System™

- Grease retention and extended maintenance intervals
- Single, easy-access grease fitting
- Premium double-lip seals
- Helps protect against potential contamination

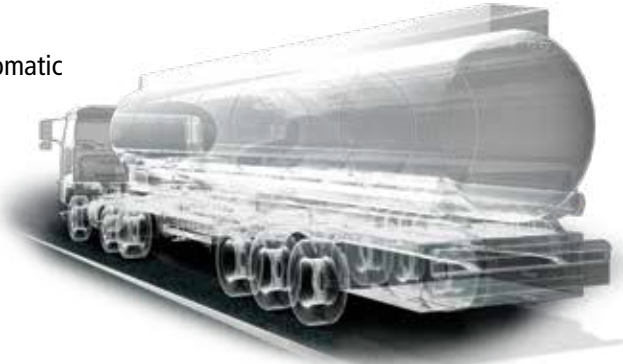
Low Cost of Ownership

Long-Life, Low-Maintenance

HSDS® is a low-maintenance and durable system that helps contribute to reduced lifecycle costs and less downtime in the following ways:

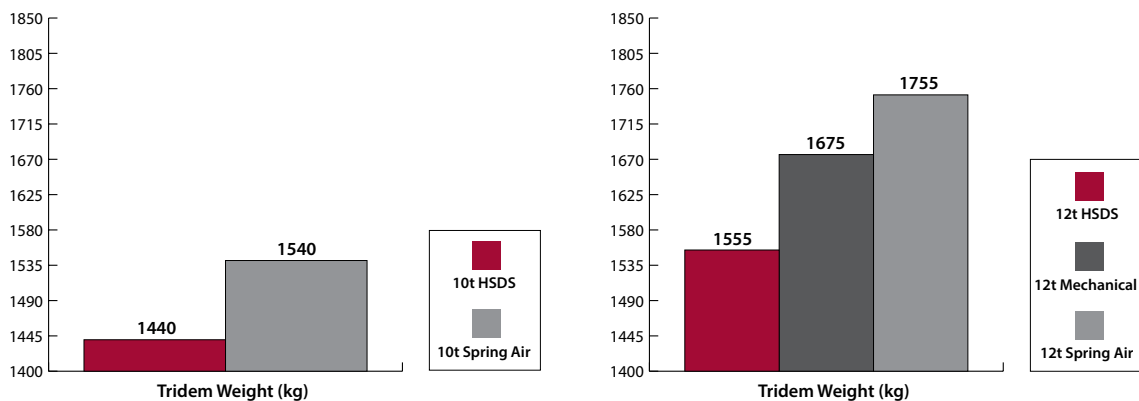
- Proven structural integrity based on decades of research and development
- High-quality, heavy-duty, low-maintenance wheel-end and brake systems
- Support for reducing tyre wear through the optional TIREMAAX® PRO automatic tire pressure control system
- Outboard mounted drum for easy and quick brake shoe changes
- Easy alignment system
- Progressive bush rate and semi-active air springs provide long service life
- Superior recommended maintenance intervals and warranty*

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



Lightweight for Higher Payloads and Fuel Savings

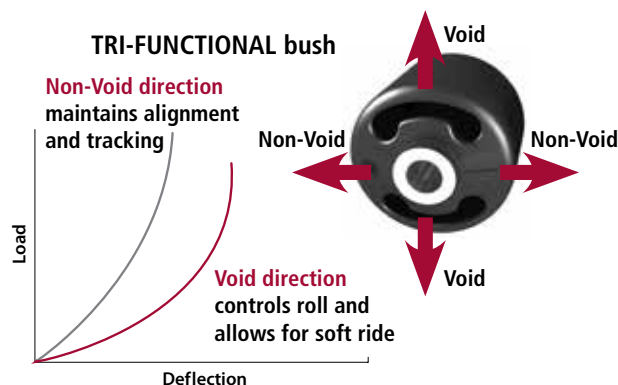
The HSDS system is designed to be lightweight without sacrificing reliability. Strong components with advanced engineering help save up to 293 kilograms per tridem installation compared to competitive mechanical or spring air suspensions. This helps support trailer fleets in their efforts to carry more payload and reach better fuel efficiency.



Above data is based upon internal testing and / or published specifications.

Excellent Ride Quality for Protection of Goods and Equipment

The HSDS system helps protect the trailer structure and the goods carried through a unique combination of the TRI-FUNCTIONAL™ bushes, as well as air springs and shock absorbers. The air springs are located close to the axle to support more of the load compared to competitive air suspensions. The bushings increase spring rate to match the operating conditions and heavy-duty shocks dampen additional vibrations. The result is HSDS's unique balance of empty and loaded ride quality and loaded stability, which not only helps improve driver comfort but also helps protect the cargo and chassis from damage.



HSDS® Specifications



HSDS 13.6t Top Mount Drum Brake



HSDS 12t Low Ride Drum Brake



HSDS 12t Top Mount Disc Brake

Flexible options to suit various applications and trailer designs

	MODELS				
	HSDS 10t	HSDS U 10t	HSDS 12t	HSDS U 12t	HSDS 13.6t
BEAM TYPE	Top-Mount	Underslung	Top-Mount	Underslung	Top-Mount
SUSPENSION CAPACITY¹ tonnes (lbs.)	10t (22,000 lbs.) at 6.9 Bar (100 psi)	10t (22,000 lbs.) at 5.0 Bar (72 psi)	12t (26,500 lbs.) at 6.0 Bar (87 psi)	12t (26,500 lbs.) at 6.1 Bar (88 psi)	13.6t (30,000 lbs.) at 6.9 Bar (100 psi)
AXLE DIAMETER mm (in.)	127 (5)				
RIDE HEIGHTS mm (in.)	355 - 580 (14 - 23)	140 - 390 (5.5- 15.5)	370 - 580 (14.5 - 23)	140 - 390 (5.5- 15.5)	370 - 580 (14.5 - 23)
AXLE TRACKS² mm (in.)	1,727 - 2,229 (68.0 - 87.75)				
AXLE SPACING mm (in.)	1,245 - 1,829 (49 - 72)				
AXLE CONFIGURATION	1, 2, 3 or 4 axles				
HUB PILOTED HUBS	10 studs × 11.25 in. (286 mm)		10 studs × 335 mm (13.2 in.)		8 studs × 275 mm (10.5 in.)
BRAKES mm (in.)	380 × 220 (15 × 8.625) HXS®		420 × 180 (16.5 × 7) HXS		420 × 220 (16.5 × 8.625) HXS
FRAME TYPES	Steel or Aluminum				Steel
SUSPENSION WEIGHT RANGE³ kg (lbs.)	465 (1,025) - 535 (1,179)	500 (1,124) - 569 (1,254)	504 (1,112) - 575 (1,267)	510 (1,124) - 580 (1,279)	542 (1,195) - 597 (1,317)

1. Suspension and axle rating only. Brakes rated separately.
2. Contact Hendrickson to discuss your design requirements.
3. Weight includes suspension, axle, brakes, wheel-ends and slack adjusters.

Value-Added Options

UBL™ UNDER BEAM LIFT™ is a lightweight lift axle system that offers cost savings and operational flexibility.

TIREMAAX™ PRO Automatic tyre pressure control system helps enhance fuel efficiency and tyre life. Balances pressure in all tyres, inflating or deflating as required to maintain optimum tyre pressure.

OFF-HIGHWAY ARL KIT Heavy-duty down stop chains recommended for high articulation and off-highway applications.

This product is covered by at least one or more U.S. and/or foreign patents and/or pending U.S. and/or foreign patent applications. See Hendrickson for details. 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 or visit our global websites for additional information.



840 South Frontage Road
Woodridge, IL 60517-4904 USA
+1.630.874.9700

Hendrickson Commercial Vehicle Systems Europe GmbH
Gussstahlwerkstraße 21
8750 Judenburg, Austria
+43 664 817 13 60
eu.hendrickson-intl.com

Hendrickson Truck Commercial Vehicle Systems
800 South Frontage Road
Woodridge, IL 60517-4904 USA
+1.855.743.3733
+1.630.910.2800
www.hendrickson-intl.com

Hendrickson Trailer Commercial Vehicle Systems
2070 Industrial Place SE
Canton, OH 44707-2641 USA
+1.866.743.3247
+1.330.489.0045
www.hendrickson-intl.com

Hendrickson Commercial Vehicle Systems Oceania
32-44 Letcon Drive
Dandenong South, Victoria,
3175 Australia
+61 3 8792 3600
aus.hendrickson-intl.com

Hendrickson Commercial Vehicle Systems China
No. 1668
North Section of Chunbo Road
East New Dist of Jinan High-Tech
Industrial Development Zone,
Jinan City, Shandong Province,
China, 250104
+86 531 8880 9055
china.hendrickson-intl.com

Hendrickson Commercial Vehicle Systems India
Plot No. 4 & 5, Gat. No. 679/2
Behind Hotel Gandharva
Alandi Kuruli Road, Kuruli (Chakan)
Taluka Khed, Pune 410501, India
+91 2135 662600
india.hendrickson-intl.com

Hendrickson Commercial Vehicle Systems UK
1-9 Booth Drive
Park Farm Industrial Estate
Wellingborough, NN8 6GR,
England
+44(0) 1604 493161
uk.hendrickson-intl.com