



- Less downtime
- Reduced weight
- Superior driver comfort



Top-Mount



Underslung

Less Downtime

The HSDS™ system is designed to be lightweight without sacrificing durability. From component and suspension simulation modeling to rigorous real-world testing scenarios in Hendrickson's state-of-the-art facility to demanding test cycles and high-articulation events on challenging proving grounds courses, the HSDS system withstands extensive test environments. The HSDS is a low maintenance and durable system that helps contribute to reduced life cycle costs and less down time.

Reduced Weight

The unique features and components of the HSDS system help balance uncompromising durability with lightweight design. Hendrickson engineers use their experience to design rugged yet lightweight components that help save up to 470 lbs. per tridem installation compared to competitive mechanical or spring air suspensions. This allows trailer fleets to carry more payload in weight-critical hauling situations. In addition, numerous industry studies have linked lighter weight trailers with better fuel efficiency.

Superior Driver Comfort

The ingenuity behind the HSDS system is found in the unique combination of the TRI-FUNCTIONAL® bushing, air springs and shock absorbers. The air springs are located very close behind the axle and support the majority of the load. The bushings and air springs increase the spring rate as it is loaded to match the load conditions while heavy duty shocks absorb additional vibrations. The result is HSDS's unique balance of ride quality and stability which not only helps protect the driver, but also cushions the load and helps protect the chassis and cargo from excessive vibrations from road inputs.



To learn more about HSDS, call 866.743.3247 or visit www.hendrickson-intl.com

HSDS™ Features and Benefits

QUIK-ALIGN® Pivot Connection

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

Shock Absorbers

- Helps reduce rough road vibrations
- Heavy duty shock absorbers

Large Heavy-Duty Air Springs

- Mounted close to the axle for superior ride performance

Brake Shoe

- High quality brake lining and brake drum helps improve lining life

Internally Vented Wheel-End

- Patented filter system to help prevent contamination from entering wheel-end

Heavy-Duty Down Stops

- Helps prevent overextension of air springs and shocks
- Only available on HSDS 13t

Brake Drum

- Outboard mounted to allow brake service without disturbing wheel-end

Seal

- Millions of miles of proven performance
- Large volume of grease for extended bearing life

Value-Added Options

- UBL™ UNDER BEAM LIFT™ is a lightweight mechanism which offers cost savings and operational flexibility
- WABCO PAN22 air disc brake systems available
- TIREMAAX® tire inflation system helps maximize tire life and maintain peak fuel mileage

See TIREMAAX PRO Brochure - L1199 • UBL UNDER BEAM LIFT Flyer - L727



Specifications

MODEL	BEAM TYPE	SUSPENSION CAPACITY	AXLE DIAMETER	RIDE HEIGHTS	SUSPENSION WEIGHT
HSDS 10t	Top-Mount	10t (22,000 lbs.) at 6.9 Bar (100 psi)	127mm (5 in.)	390 - 570 mm (14 - 23 in.)	481 kg. (1,060 lbs.)
	Underslung				
HSDS 12t	Top-Mount	12t (26,500 lbs.) at 6.0 Bar (87 psi)		370 - 580 mm (15 - 23 in.)	526 kg. (1,160 lbs.)
	Underslung				
HSDS 13t	Top-Mount	13t (28,700 lbs.) at 6.5 Bar (88 psi)		370 - 580 mm (15 - 23 in.)	567 kg. (1,250 lbs.)
	Underslung				

1. Axle structure rating only. Brakes rated separately.
2. Weights in range of ride heights. Weight includes suspension, axle, brakes, wheel-ends, slack adjusters and brake chambers.

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 330.489.0045 or 866.RIDEAIR (743.3247) for additional information.



www.hendrickson-intl.com

TRAILER COMMERCIAL VEHICLE SYSTEMS

2070 Industrial Place SE
Canton, OH 44707-2641 USA
866.RIDEAIR (743.3247)
330.489.0045 • Fax 800.696.4416

Hendrickson Canada

250 Chrysler Drive, Unit #3
Brampton, ON Canada L6S 6B6
800.668.5360
905.789.1030 • Fax 905.789.1033

Hendrickson Mexicana

Circuito El Marqués Sur #29
Parque Industrial El Marqués
Pob. El Colorado, Municipio El Marqués,
Querétaro, México C.P. 76246
+52 (442) 296.3600 • Fax +52 (442) 296.3601

L1184 Rev B 06-20

© 2011 - 2020 Hendrickson USA, L.L.C. All Rights Reserved. All trademarks shown are owned by Hendrickson USA, L.L.C., or one of its affiliates, in one or more countries. Information contained in this literature was accurate at the time of publication. Product changes may have been made after the copyright date that are not reflected.

Printed in United States of America