

- Less downtime
- Reduced weight
- Superior driver comfort



Top-Mount

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 190kg (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 Hendrickson or visit our global
websites for additional information.

HSDS® ADB Features and Benefits

QUIK-ALIGN® Pivot Connection

- Fast and easy axle alignment
- Requires no welding or special tools
- TRI-FUNCTIONAL® bushing

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 Pads

- 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

Seal

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

Air Disc Brake

- Wabco PAN22 Air Disc Brake System (pictured)
- Other Air Disc Brake types available

Value-Added Options

- UBL™ UNDER BEAM LIFT™ is a lightweight mechanism which offers cost savings and operational flexibility
- TIREMAAX® tire inflation system helps maximise tire life and maintain peak fuel mileage
- Heavy-duty down Stops



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.)	355 - 580mm (14 - 23 in.)	471 kg. (1,039 lbs.)
HSDS 12t	Top-Mount	12t (26,500 lbs.) at 6.0 Bar (87 psi)		370 - 580mm (15 - 23 in.)	521 kg. (1,149 lbs.)

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. For additional details regarding specifications, applications, capacities and service maintenance instructions, contact Hendrickson. Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

Call Hendrickson or visit our global websites for additional information.



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