

- Outstanding durability
- Increased payload
- Superior ride quality







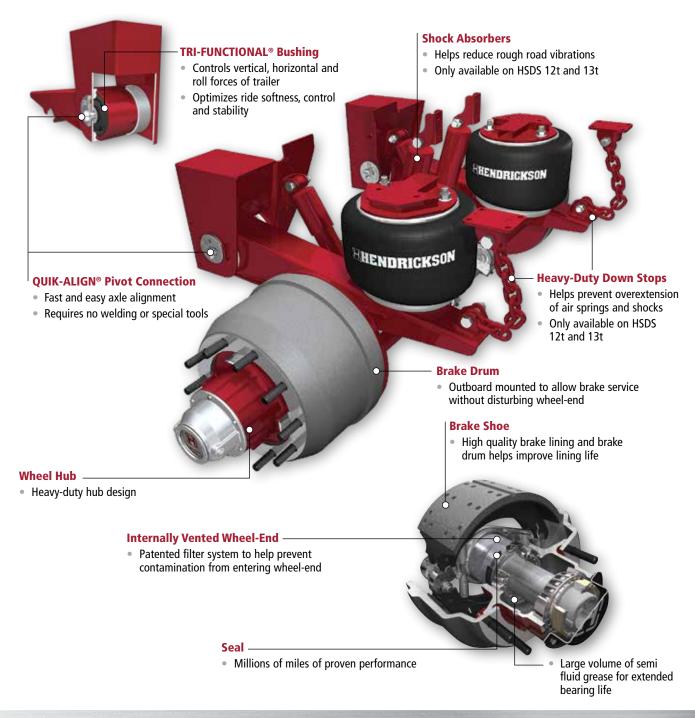




To learn more about HSDS, call 866.743.3247 or visit www.hendrickson-intl.com



HSDS[™] Features and Benefits



Value-Added Options

- UBL[™] UNDER BEAM LIFT[™] is a lightweight mechanism which offers cost savings and operational flexibility
- Air disc brakes available
- TIREMAAX® tire inflation system helps maximize tire life and maintain peak fuel mileage

Keeping You on the Road Longer

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. With nearly ten years of service in severe environments, the HSDS is a low maintenance and durable system that helps contribute to **reduced life cycle costs** and **less down time** in the following ways:

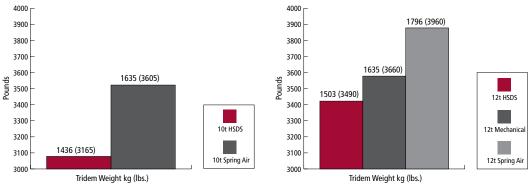
- · High quality, heavy-duty, low-maintenance, easy to service wheel-end and brake system
- Progressive bushing rate and semi-active air springs provide long service life
- Easy alignment system
- · Hendrickson parts and service readily available
- Comprehensive technical support and training available



Severe real world application

Less Weight = More Payload

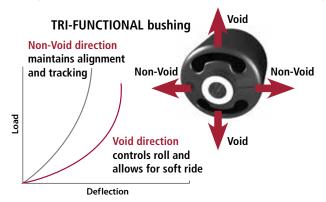
The unique features and components of the HSDS system help balance uncompromising durability with lightweight design. Hendrickson engineers use their experience to design rugged yet lightweight components that help save up to 470 lbs. per tridem installation compared to competitive mechanical or spring 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.

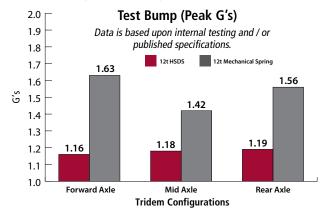


Above data is based upon internal testing and / or published specifications.

Superior Driver Comfort and Equipment Protection

The ingenuity behind the HSDS system is found in the unique combination of the TRI-FUNCTIONAL® bushing, air springs and shock absorbers. The trailer is supported by the TRI-FUNCTIONAL bushings and the air springs, which work together to absorb road irregularities. The air spring is a semi-active device which adjusts its spring rate to match the load it carries. It is located very close behind the axle and supports a majority of the load. The bushing also increases 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 empty and loaded ride quality and loaded stability which not only helps protect the driver, but also cushions the load and helps protect the chassis and cargo from excessive vibration due to potholes and other road inputs. The HSDS suspension is compliant with the regulation that requires 75 percent or more of the spring action be provided by the air spring.





HSDS[™] Specifications









	MODELS					
	HSDS 10t	HSDS U 10t	HSDS 12t	HSDS U 12t	HSDS 13t	HSDS U 13t
BEAM TYPE	Top-Mount	Underslung	Top-Mount	Underslung	Top-Mount	Underslung
SUSPENSION CAPACITY ¹ 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)	13t (28,700 lbs.) at 6.5 Bar (95 psi)	13t (28,700 lbs.) at 5.2 Bar (75 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)	140 - 430 (5.5 - 17)
AXLE TRACKS ² 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.)	$380 \times 220 \text{ (15 x 8.625) HXS}^{\circ}$ $310 \times 190 \text{ (12.25 x 7.5) HXS}$ $420 \times 180 \text{ (16.5 x 7) HXS}$ $420 \times 220 \text{ (16.5 x 8.625) HXS}^{\circ}$					
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)	526 (1,159) - 596 (1,315)

- 1. Axle structure rating only. Brakes rated separately.
- 2. Contact Hendrickson for non-standard options.
- 3. Weight includes suspension, axle, brakes, wheel-ends and slack adjusters.

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

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