

- Raise efficiency
- Lower cost per mile
- No driver interaction required



Intelligent System

Hendrickson-installed UBL is a modified, liftable VANTRAAX® integrated slider system that raises and lowers one axle without any driver interaction when paired with an automatic weight sensing lift system, provided by an ABS supplier.

The system is designed to optimize tire life and help increase fuel efficiency for fleets with fluctuating loads such as food service, beverage supply, LTL Less-Than-Truckload, or other multi-stop operations.

Proven Track Record and Established Reliability

The foundation for the liftable VANTRAAX system is Hendrickson's UBL™ UNDER BEAM LIFT™ lift mechanism.

Since its introduction in 1999, more than 200,000 UBL units have gone into service, earning a reputation for superior reliability and performance.



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

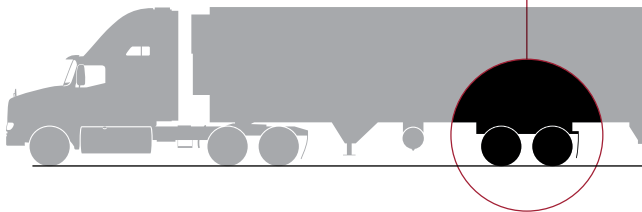
HENDRICKSON-INSTALLED UBL™ System Operation

Hendrickson's UBL™, when used in conjunction with an automatic lift controls system provided by an ABS supplier, activates with absolutely no interaction from the operator. It is designed to work with an automatic control system that regulates the position of the front trailer axle anytime the vehicle is operating. With the vehicle power on and the emergency brakes released, the UBL system paired with an automatic weight sensing control system raises or lowers the front axle on VANTRAAX® slider systems to provide the optimum axle configuration based on operating conditions.

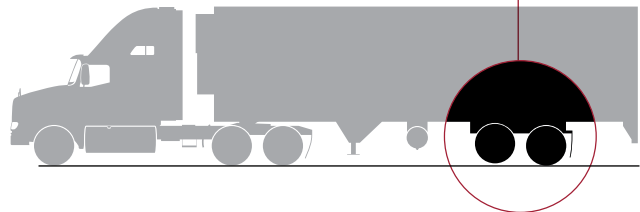
The pressure in the air springs is used to determine whether the front axle should remain on the ground or be raised to the lifted position. Based on this pressure, the suspension controls calculate the weight of the trailer load, and if the front axle is not required to support the load, the axle is automatically lifted.



FULLY LOADED TRAILER - ALL AXLES DOWN



PARTIALLY LOADED TRAILER - FRONT AXLE UP



Automatic Lift Controls System

Anytime the vehicle is powered off, and therefore not operational, the automatic lift controls that are paired with the UBL system automatically shift the front axle to the down position. This "down" axle arrangement is maintained anytime the emergency brake is set. This unique feature is designed to allow both axles to remain on the ground to provide stability when loading and unloading the trailer.

Under normal operating conditions, while the vehicle is moving, the system maintains the suspension's current axle position. The intelligent suspension control* logic prevents the axle from automatically changing position due to road inputs that affect the vehicle while it is in operation. If power is lost, the suspension controls revert to 'powered off' mode and automatically lower the lifted front axle to the ground, returning the trailer to a standard axle arrangement.



Raised mode

Lowered mode

* When combined with an ABS System that includes an Automatic Lift Control feature.

HENDRICKSON-INSTALLED UBL System Benefits

The UBL system paired with automatic lift controls allows the tires to be lifted off the ground when they are not required to carry the load which help offer significant benefits including:

- **Increased Fuel Efficiency**
- **Extended Component Life**
- **Extended Tire Life**
- **Reduced Road Tolls**

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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