Hunting Truck Detector (HTD)

Prevention of Lading Damage, Vehicles and Infrastructure

MARKET

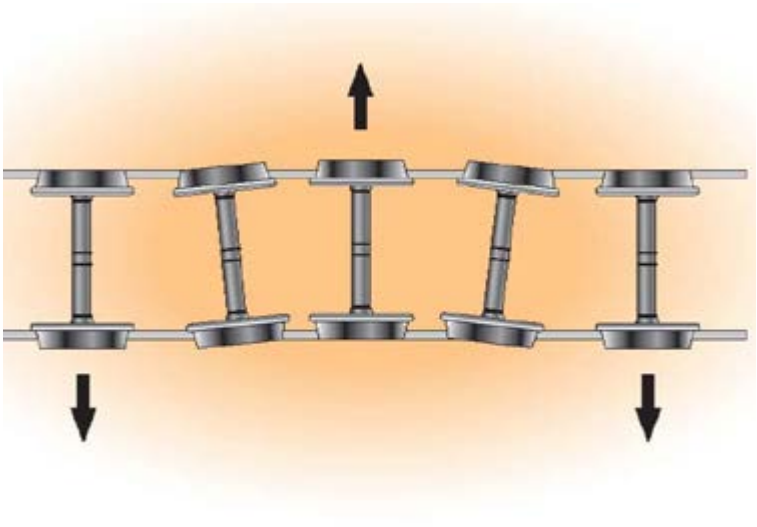
Rail Infrastructure

AVAILABLE

Worldwide

L.B. Foster has developed a state-of-the-art Hunting Truck Detector (HTD) building on the solid foundation that the Wheel Impact Load Detector (WILD) has provided the industry for more than 20 years. Customers are implementing the HTD to prevent lading damage, as well as damage to vehicles and infrastructure.

Hunting trucks underneath rail cars can violently oscillate from one rail to the other as they traverse tangent track. This motion can induce excessive lateral forces that significantly contribute to the accelerated wear of rail and vehicles. This particular type of degraded vehicle performance is a leading cause of damage to delicate lading and customer complaints about ride quality. Hunting trucks also cause increased fuel consumption and result in severe damage to truck components which can cause derailments.



KEY BENEFITS

- Monitor Individual Vehicle Stability
- Monitor Fleet Performance
- Improve Safety
- Reduce Track Damage
- Reduce Operating Costs
- Prevents Lading Damage

KEY DESIGN FEATURES

- Hunting Truck Index
- Bi-Directional Traffic
- Automatic Car Counting and Identification (With Valid Car Library)
- Robust Hardware
- Automated Alarm Notifications
- Self-Diagnostics
- The only Hunting Truck Detector that implements AAR Rule 46

Tel: (614) 792-5800 information@salientsystems.com lbfoster-salientsystems.com

LB Foster® Salient Systems

FUNCTIONALITY & APPLICATION

The HTD measures lateral forces on the track by hunting truck on a passing train. L.B. Foster's unique design accounts for the dynamic relationship between vertical and lateral loads - the system compares simultaneous readings from a WILD and a HTD to identify critical instances where the wheel flange and rail gauge face geometry may promote flange-climb derailments.

These measurements are processed through a highly sophisticated proprietary algorithm and transformed into a Hunting Index to identify and alarm on vehicles that exhibit excessive side-to-side motion. If the forces exceed an acceptable threshold, an automatic report notifies the customer which truck requires action based on their configured alarm thresholds.

TECHNICAL SPECIFICATIONS

- Operating Speeds – 30 mph to 180 mph (50 to 300 km/h)
- Measurement Zone – 50 feet (16 meters)
- Hardened Electronics in 19" rack
- Power – 120/220 volts AC or 24 volts DC
- Power – Approximately 4 amps at 24 volts DC
- System Operating Temperature -40° to 158° F (-40° to 70° C)
- Bungalow (Inside) Electronic Components 32° to 131° F (0° to 55° C)

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