

## High-Speed and Intercity Rail Safety Solutions



Providing the most comprehensive track inspection technologies and reliable vehicle testing services on the market

**E**NSCO, Inc. provides unmatched expertise and a breadth of capability in vehicle/track interaction, track inspection, vehicle evaluation, data management and Federal Railroad Administration (FRA) Track Safety Standards. Whether your needs include upgrading track for higher operating speeds, evaluating new or existing vehicles for high-speed service or navigating the FRA approval process, ENSCO can provide a solution that prioritizes safety, efficiency and reliability.

### A complete and accessible solution

**ENSCO's Vehicle/Track Interaction Solutions** include a full range of testing, troubleshooting and analysis services, making ENSCO the only source you need for such wide-ranging considerations as:

- Consulting services for upgrading lines to higher speed
- Wheel/rail profile optimization
- Vehicle/track dynamic modeling
- Instrumented wheelset fabrication and testing
- Vehicle stability and ride quality evaluation
- Vehicle performance/acceptance testing
- Derailment investigations and prevention, including low-speed flange climb scenarios
- Cab signaling system evaluations

**ENSCO Track Inspection Services** provide reliable and timely information regarding geometry, rail wear and rail cant for determining improvements necessary for operating at higher speeds or assessing maintenance requirements for safe operations.





**ENSCO Vehicle Testing and Evaluation Services** provide crucial data and analysis to verify vehicle performance and safe operation for waiver and qualification approvals.

**ENSCO Data Management Solutions** support efficient decision making regarding critical maintenance and improvement issues as railroad management, engineering and maintenance-of-way personnel are afforded a valuable window into actual infrastructure conditions.

### The ENSCO advantage

ENSCO provides critical analysis to the standards development for next-generation equipment through the FRA's Rail Safety Advisory Committee. This role in the development of the FRA Track Safety Standards and assessment of vehicles for high-speed operations translates to an in-depth understanding of unique requirements, qualifications and approval processes. We are able to fully extend and leverage this knowledge to the benefit all ENSCO customers to reach full compliance and enhance rail operations.

## Safety

## Efficiency

## Reliability

Cost effectively meeting your needs with the most advanced track inspection technologies and reliable vehicle testing services on the market.

ENSCO has invested its breadth of capability in a wide variety of projects. We have played a significant technical role in the implementation of the high-speed operations of:

- Amtrak Acela Express
- Amtrak/Maryland Transit Administration High-Horsepower Locomotive

ENSCO has supported evaluation and approval of intercity service speeds for:

- Maryland Transit Administration MARC III Car
- Amtrak Talgo trainsets on the Pacific Northwest Rail Corridor
- North Carolina Heritage Cars
- California Metrolink Multi-Level Car
- New Jersey Transit ALP-46 and PL42-AC locomotives as well as its Comet V and Multi-Level Commuter Car
- Amtrak AEM-7, P32 and P42 locomotives as well as its Horizon, Amfleet and Metroliner Cab Cars
- VIA Rail modified F-40 locomotives
- Caltrain's F40PH and MP36PH locomotives as well as its Bombardier BiLevel and Gallery Cars



800-ENSCO-VA  
info@ensco.com  
www.ensco.com