

Rail Technologies



Innovative solutions for the rail industry

ENSCO, Inc. is an international leader in the design, manufacturing and operation of track and vehicle safety assessment systems. For more than 40 years, the company has delivered leading edge rail safety solutions. ENSCO supplies both commercial rail and government entities with engineering solutions to meet their needs. Our engineers have pioneered the use of technologies to improve track maintenance such as advanced rail inspection sensors, high resolution imaging technology and autonomous inspection systems. These technologies provide customers with the best possible tools to ensure track and rolling stock safety, increase productivity and efficiency and reduce operating costs.

ENSCO understands the complexities facing the railroad community today. With rising fuel costs, environmental concerns and an ever-expanding need for transportation, the world is increasingly dependent on rail services. Railroads must increase their efficiency and productivity to meet rising demand. Using its broad portfolio of engineering solutions, ENSCO enables its customers to effectively meet their programmatic, operational and strategic challenges.

ENSCO understands track inspection

ENSCO is a recognized producer and pioneer in the field of track inspection vehicles and measuring systems. It is the sole supplier and operator for all track inspection vehicles used by the Federal Railroad Administration (FRA) to enforce track safety standards on American railroads. ENSCO's state-of-the-art solutions have been delivered throughout the world on both high-speed and conventional railroads.

ENSCO knows the relationship between the vehicle and the track

ENSCO employs one of the largest groups of vehicle/track interaction specialists in the world – leading the way in vehicle acceptance testing, vehicle dynamics analysis and derailment prevention. ENSCO's close understanding of the relationship of the vehicle/track interaction and regulation enables it to deliver comprehensive, cost-saving recommendations when upgrading lines to higher speeds, implementing corrective actions to improve ride quality and vehicle stability and optimizing wheel/rail profile design.





ENSCO meets specific needs through customized approaches

ENSCO is unique in its ability to deliver a comprehensive range of railway safety solutions including high-speed, non-contact rail and track measurement systems, tools for track inspectors, asset management systems, comprehensive vehicle/track condition assessment consulting services and rail safety and security services. ENSCO's track inspection specialists are dedicated to the development of new technologies to improve the safety and efficiency of rail transportation. Customers benefit not only from decades of acquired experience and practical knowledge, but also from direct access to emerging technologies tailored to fit customers' needs. Rail customers come to ENSCO because of its solid reputation for research, development and innovation. ENSCO continually strives to deliver flexible and adaptable solutions that take advantage of developing technology advances.

ENSCO offers comprehensive services and solutions to the rail industry including:

- Track Inspection Vehicles
- Track Measurement Systems
- Track Inspection Services
- Machine-Vision based Track Imaging Systems
- Vehicle/Track Interaction Consulting Services
- Asset Management Products



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