



A Higher Level of Reliability

The Sperry

450

HI-RAIL DETECTOR CARS

S E R I E S

For superior technology, training, and reporting, the solution is Sperry.

Sperry Rail Service

a Rockwood Company

The Sperry 450 Series



Unmatched precision with the only 48-channel test system in the industry.

The Sperry 450 Series incorporates the latest technology for exceptional accuracy. Ideal for yard testing and transit systems, these cars are outfitted with the following standard equipment:

450 SERIES DETECTOR CAR STANDARD CONFIGURATION

1900 TEST SYSTEM

Sperry's 1900 test system is the only 48-channel test system available for the purposes of rail flaw detection. As new probe technology becomes available, our 1900 test system seamlessly integrates additional data streams into the testing process for a more complete picture of suspected defects.

FOUR UX-6 ULTRASONIC RSUs (TWO PER RAIL)

Named for its six discrete transducers (37, 3-70's, Sidelooker, and 0), the four UX-6 ultrasonic RSUs included in the standard configuration provide complete coverage of testable rail.

TWO X-FIRE ULTRASONIC RSUs (ONE PER RAIL)

X-Fire's ability to locate defects in spite of certain surface conditions such as head checking, shells, and worn rail profile is the most advanced available today, and is only available from Sperry. Obliquely angled probes call out flaws that are difficult to find with standard ultrasonics, such as reverse detail fracture and transverse defects before they become a liability.

GPS

A differential GPS unit is included and is linked to the test system for improved record keeping. The GPS "breadcrumb trail" of all tested areas is part of the B-Scan permanent record of test.

OPERATOR LATERAL CONTROLS

For more time-efficient inspections and safer operation, we have incorporated operator lateral controls inside the detector car, allowing the operator to maintain correct RSU positioning without stopping the vehicle and manually adjusting from the ground.

SPRING-LOADED DOVETAILS

Our spring-loaded dovetails allow RSUs to follow the rail surface, eliminating the possibility of bridging over surface irregularities, such as pumping joints or crushed heads.

OPTIONAL EQUIPMENT

VISION SYSTEM

Our vision system greatly enhances the operator decision-making process and efficiency by allowing interpretation of certain ultrasonic and induction responses from inside the vehicle. Plus, images are stored and easily recalled for further review.

TURNTABLE

Benefit from the ability to turn the vehicle on track in the absence of grade crossings/set-off points with our turntable option.



A complete solution from Sperry.

We believe that servicing our customers embodies more than supplying the most advanced technology in the industry: it is about providing a total solution that presents a more cost-effective and time-efficient way to operate.

Online access and flexible reporting capabilities

Do more with your data. Sperry is the first to offer secure web-enabled access to your test results online, anytime. Plus, customized reporting capabilities let you format the data according to your specific criteria.

Highlights of the Sperry Data Management System (SDMS) include:

- Monitor and predict future maintenance needs
- Extensive data mining capability
- Customer-configurable reporting
- Compatible with most ERP systems
- Seamless integration with PDA-based devices
- Integration with GIS services



Customer training programs

Sperry offers complete ultrasonic training and certification courses for our customers upon request. We can even tailor a program to meet your specific requirements. All courses are lead by an ASNT Level III-certified instructor and participants can achieve Level I and/or Level II certification upon successful completion. Designed to introduce ultrasonics and rail flaw detection, these one-to-two week courses include both classroom and hands-on training with Sperry's extensive rail sample collection.



Dedicated field management

A dedicated field manager with significant experience in rail testing and management supervises all Sperry 450 Series cars. In addition to expertly overseeing the quality, production, and performance of the crew, the field manager also personally responds to requests for follow-up work related to Sperry's rail flaw detection services.



Quality assurance program and service failure investigations

Sperry employs a dedicated team to address quality assurance and system integrity. Our QA staff thoroughly manages the following programs:

- Regular vehicle audits
- Rail failure investigation
- System Integrity audits
- Chief operator tape audits
- On-car library of updated procedures
- Interactive on-line training / educational program
- Rail breaking



Sperry is synonymous with safety.

Safety is part of our culture. It pervades every aspect of our operations, and is a critical component of everything we design. From rear-exit doors and under-mounted carriages on Sperry cars, to auditing programs that exceed industry standards, our commitment to a safe working environment is unparalleled.

For more information on the Sperry 450 Series, or any Sperry solution, visit www.sperryrail.com or contact one of our offices:

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