

KinetiX

Inspection
Technologies



RailBAM

BEARING ACOUSTIC MONITOR

Using advanced beam-forming technology, the RailBAM bearing acoustic monitor detects early and advanced bearing defects, including extended surface, cone, cup, roller, and audible faults on rolling stock wheels during train pass-by at line speed.

Collected data is analysed and forwarded to the user in alert, tabular, graphical, and historical formats. Together with these reports and the associated wave files, bearings are able to be scheduled for change out in a systematic and cost-effective manner.



RAILBAM SYSTEMS

The advanced FleetONE™ database is user friendly, with automated report functions and scenario settings for bearing and fleet analysis.

RailBAM uses two cabinets, sleeper mounted auxiliary sensors, and a signal processing electronics rack located in a wayside enclosure.

Monitoring bearing condition in a dynamic environment ensures that maintenance is able to be systematically planned – providing maximum asset performance and security.

The RailBAM data is presented in a web interface enabling users throughout your enterprise to seamlessly receive vehicle details in “real time” and at their fixed or mobile workstations.

User configured alerts allow the system administrator to adapt your reports to the specific needs of stakeholders.

GENERAL FEATURES

Beam forming technology

Minimal traffic interruption for system installation

Multiple bearing classes

Web-based trending database

Bearing fault alerts

Wheel diameter measurement

Axle count

AAR rules compliant

Automated system health checks

Mixed traffic environment

Ability to issue alarms and alerts to system stakeholders

Early and consistent fault detection

Reliably detects bearing faults

Provides accurate fleet-wide statistical data



KINETIX

RailBAM

GENERAL SPECIFICATIONS

Capacity: Train length – unlimited

RF Tags: Suitable for RF tagged vehicles (or virtual tagging reports)

Alarms: User configurable, delivered via SMS, email or message to Central Train Control

Operating environment: Main Line/Depot

Fleet: Mixed fleet – heavy haul, inter-modal and passenger

Bearing type: Package, Axle Box and Passenger

Environment: Rail hardware and wayside hut equipment suitable for arctic, tropical and desert environment

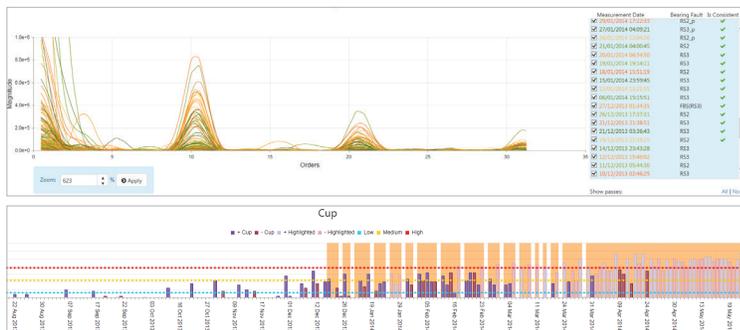
Rail hardware IP65 or greater

Database: RailBAM information presented by the FleetONE database

General: DC/AC power compatible, TCP/IP data transfer, suitable for electrified environment, all hardware isolated from the rail

Compliance: Outputs in compliance with AAR rules and CE compliant

Standards: Manufactured to EN 50125 quality standard



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