Wabtec CORPORATION

RailBAM system benefits include:

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

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.

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.

Track IQ
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RailBAM®

FleetONE Web Application
Intelligent Software

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 allows the system administrator to adapt your reports to the specific needs of stakeholders.

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 ISO 9001/EN 50125 quality standard

Specifications are subject to change without notice.
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