



iCOM - Advanced Diagnosis and Maintenance System



APPLICATIONS

iCOM is adaptable to all types of rail vehicles from different car builders and applicable to all vehicle system architectures. The iCOM solution can be integrated into new vehicles or applied as an upgrade and retrofit.

KNORR-BREMSE



DESCRIPTION

Knorr-Bremse iCOM (intelligent Condition Oriented Maintenance) is an integrated platform consisting of an on-board device which is wirelessly connected to a Knorr-Bremse BackOffice / KB cloud. The goal of iCOM is to enable condition-based maintenance as a maintenance strategy via prognosis of the maintenance needs for all Knorr-Bremse and third-party products. iCOM is thus suitable for different subsystems and also integrates an entire fleet consisting of different rail vehicles.

OPTIMIZED USE OF MATERIALS

- replacement of parts only when necessary and deteriorated – iCOM avoids waste
- iCOM enables the efficient use of parts and materials
- the design of the iCOM onboard unit represents lean and modular system architecture

ENHANCED MAINTAINABILITY

- iCOM enables the maintainer to forecast maintenance capacities and activities and includes all Knorr-Bremse and third-party products
- optimization of maintenance processes in maintenance depots for reduced repair time and effort
- iCOM consists of standardized components and flexible software architecture and can be quickly replaced in the event of obsolescence

IMPROVED TRAFFIC MANAGEMENT / SAFETY

- prevention of unexpected breakdowns during service of vehicles and their subsystems – increased availability and reliability
- iCOM onboard is a non-safety-relevant system
- the operator is given valuable information regarding the current state of the vehicles to ensure reliable and punctual operation

LESS LIFECYCLE COSTS

- not safety-relevant, so replacement of the iCOM onboard unit in the event of obsolescence is fast and cost-efficient
- no system homologation effort necessary
- reduction of LCC of rail vehicles via optimization of maintenance processes

INCREASED ENERGY EFFICIENCY

- iCOM system saves energy via additional functions (e.g. geofencing of auxiliaries or energy consumption overview of subsystems)

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