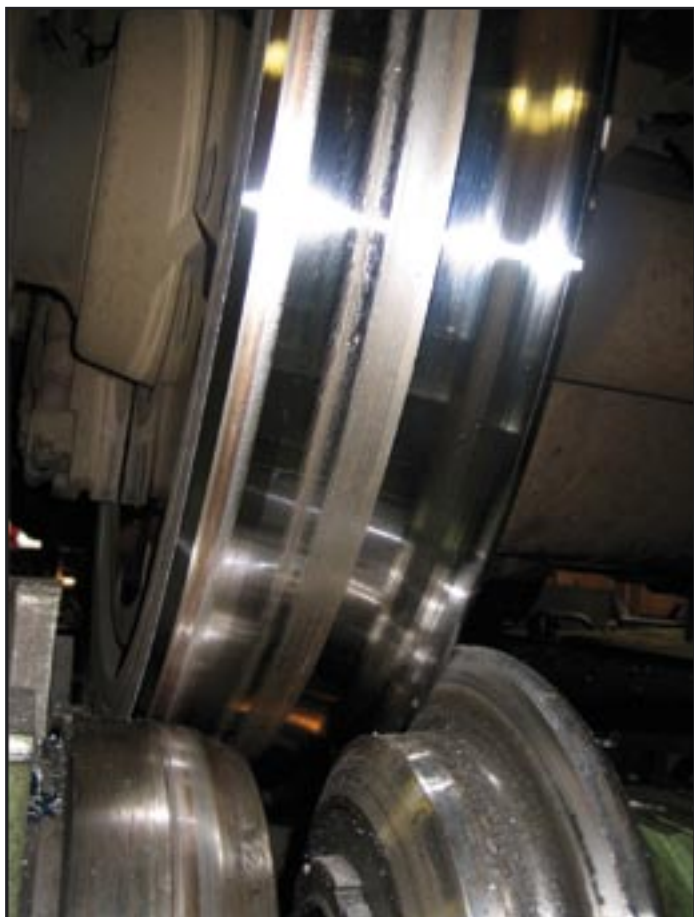


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Wheelset Management Application



System Overview

Nexala provide a comprehensive and powerful Wheelset Management Application as part of our strategy to bring cost saving applications to Rail companies.

Nexala's Wheelset Management Application provides Rail Maintainers with major cost savings, wheelset maintenance plans and improved fleet availability. The application monitors wheelset wear behaviour across the fleet in line with expected target wears. It notifies maintenance staff on deviations within specific tolerances over and above the target wears for immediate action and damage/cost limitation. In addition, it forecasts scrap, turn and last turn

dates for each individual wheelset for maintenance planning.

Nexala's wheelset planning application provides Rail Maintainers with dramatic cost savings and improved efficiencies through maximised wheelset utilisation.

The application outputs are fully interactive and allow maintainers to look at the wheelset historical (actual and target) behaviour and also detailed forecasts by class, motor/trailer, mileage, diagram, period and so on.

Features

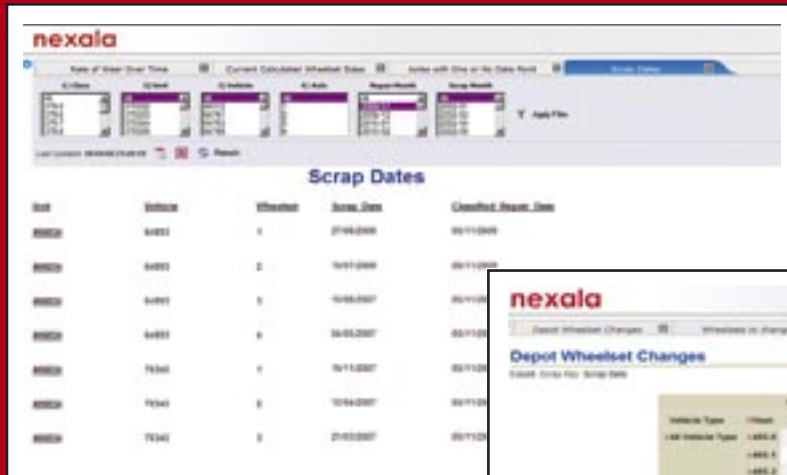
- Analysis of wear by wheelset, class, unit, date.
- Forecast next turn, last turn, scrap dates by wheelset, unit, vehicle, class, year, period etc.
- Identification of rogue wheelsets (wear over targets & tolerances)
- Automated notifications and exception report generation
- Pre-Built Rail system, data and hardware adaptors & processes
- Automatic generation of Jobcards and work reports (where applicable)
- Data quality exception analysis & reporting

Benefits

- Dramatically reduce unnecessary degradation
- Maximise wheelset life cycle & utilisation
- Forecast wheelset maintenance turning and scrap dates
- Reduce maintenance capacity bottlenecks
- Reduce / Eliminate units waiting for wheelsets
- Predict Wheelset Life
- Accurately predict wheelset budgets and align purchasing
- Automate data collection and analysis

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The application consists of a number of modules which combine to deliver a functionally rich solution which helps the Train Maintainer optimise wheelset performance.



Application Modules:

- Performance Analysis & Reporting Module – A comprehensive web based reporting dashboard for both users and power users to analyse wheelset performance
- Forecasting Model - The application includes a forecasting engine which determines next turn dates, last turn dates, scrap dates by period, Class, Wheelset and so on.
- Business Rules Module – This is used to monitor and manage the operation, for example, it monitors wear behaviour over time Vs. targets and then depending on the situation can trigger processes / actions
- Business Process Management – This enables the coordination of tasks and resources to automate processes and can for example trigger orders and update 3rd party systems
- Notification Engine – Used to inform, notify and escalate when necessary by email, sms and via the Nexala dashboard
- System & Data Integration Engine – Nexala comes with pre-built interfaces to 3rd party devices and systems

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