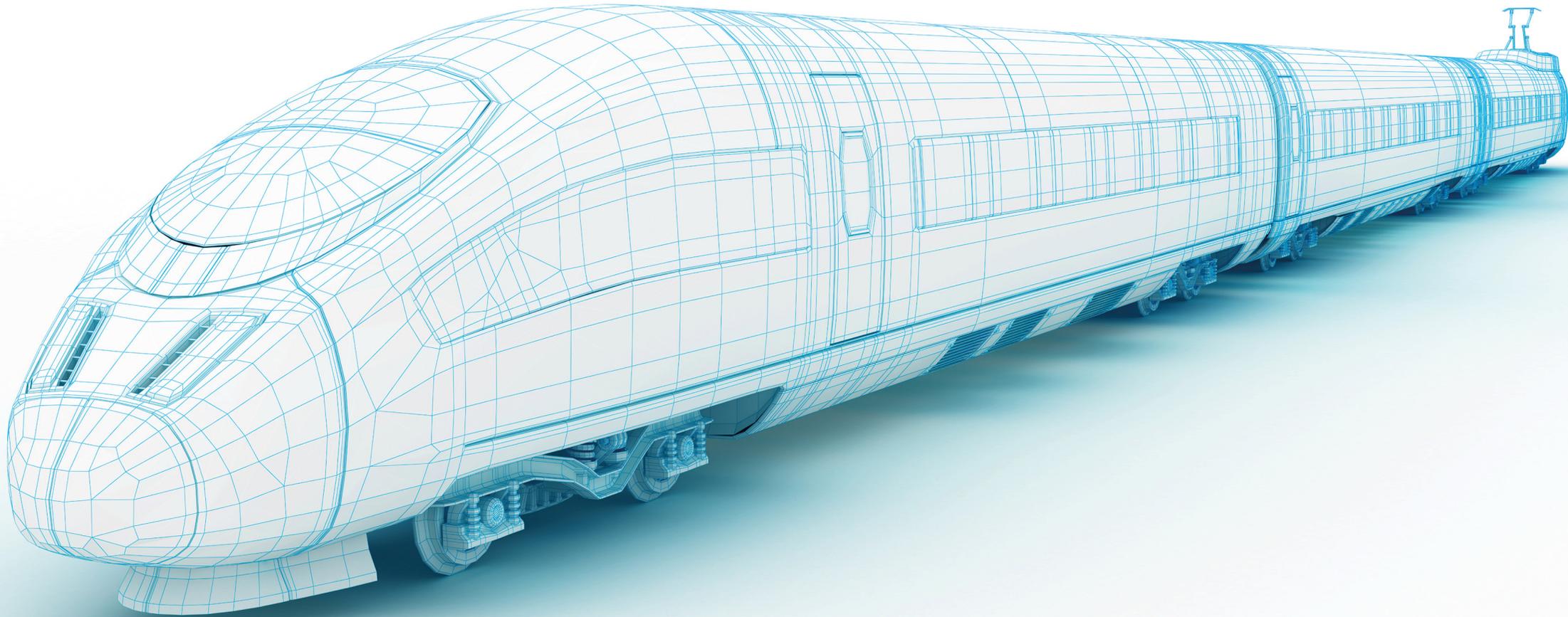


**T&RS**  
ENGINEERING



**Here to support you**

# ABOUT US

T&RS Engineering has been operating since 1999. Our team of flexible and mobile Engineers has a combined wealth of experience in the manufacture, maintenance and overhaul of railway vehicles and equipment. We are certified to ISO 9001:2015 for provision of Traction & Rolling Stock engineering consultancy services (to the rail industry).

Our experience extends beyond passenger traction & rolling stock to include freight and on track plant and machinery. We are centrally located in Doncaster and much of our experience has come from the rail heritage of the area.

We supply reliable and diverse engineering support to Train Operating Companies, Rolling Stock Leasing Companies and other Rail Service Providers.

We are able to achieve this through our flexible and responsive approach to quickly adapt to deliver the needs of our customers. We draw upon our broad extensive experience to manage and deliver innovative solutions.

From project management to condition assessments, supplier evaluation to component trials, continuous improvement to reliability centred maintenance, providing cost effective solutions tailored to each client's needs having ensured we understand their individual business requirements.

The team at T&RS Engineering look forward to hearing from you.

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# VEHICLE MAINTENANCE & OVERHAUL STRATEGY DEVELOPMENT



**Our understanding of operating environments and product duty cycles is fundamental to our analysis and solution development.**

We have extensive experience in the creation, issuing and updating of train maintenance and overhaul manuals VMOI's.

We also provide a service to clients where if there is an urgent requirement we will respond quickly to create and issue fleet technical bulletins.



Maintenance and overhaul strategies are developed based upon OEM requirements industry best practice, experience and following our optimisation principles.

- Franchise Bid Support
- Developing and implementing maintenance strategies
- Design for Maintenance (DFM) and Life Cycle Costings (LCC)
- Vehicle Maintenance Instructions (VMI's)
- Digital interactive manuals and fault finding guides
- Digital Data and Operational Maintenance Systems



# MAINTENANCE & OVERHAUL OPTIMISATION

**T&RS Engineering has extensive experience of maintenance and overhaul of all types of rail vehicles – from fleets of high speed trains to freight wagons and to on-track plant and equipment.**

This experience has been gained through being depot “hands-on”, working in depot management and through independent consultancy roles.

This, combined with our knowledge of vehicle maintenance and overhaul processes allows us to offer a full range of rail vehicle maintenance/overhaul assessment and optimisation.

Maintenance and overhaul optimisation can be provided complete with appropriate engineering change approvals, attestation statements and compliance to RIS-2700-RST certification, where applicable.

Our team of Maintenance and Overhaul Assessment Engineers can provide a bespoke service to vehicle maintainers, operators and owners, providing an opportunity for improvement of vehicle reliability and availability, in conjunction with cost reduction and optimised utilisation of depot staff and facilities.

- Safety & Reliability Improvement
- Digital Data and Operational Maintenance Systems
- Component Condition Assessment/Trials/Failure Investigations
- Continued Service Operation

# FLEET TECHNICAL SUPPORT

**We provide technical support to clients on any issues associated with the day to day requirements of maintenance or overhaul of their fleets or individual rail vehicles.**

T&RS Engineering has extensive experience of maintenance and overhaul of all types of rail vehicles – from fleets of high speed trains to freight wagons and to on-track plant and equipment.

This experience has been gained through either being depot “hands-on”, working in depot management and through independent consultancy roles. We supply fast, reliable and diverse engineering support to Train Operating Companies, Rolling Stock Leasing Companies and other Rail Service Providers at a very competitive price.

We can do this because we have the flexibility to adapt to the needs of our customers and to draw upon our in-house extensive experience to manage and deliver innovative solutions.

- Depot Capacity & Resource Planning
- Vehicle Acceptance Support
- Manage Engineering Change and Compliance
- Product and Performance Improvement
- Overhaul Interval Extensions (One Off Vehicles or Fleets).
- Vehicle Handback Inspections



# AUDITING

As an Independent company who specialise in Validation and Verification methods (IV&V), we can provide Lead Auditors to support your business through the following auditing services;

- RISAS and ECM Technical Assessing
- ISO 9001- 2015 Internal Quality Audits
- Safety Management System (SMS) Audits
- ISO 14001 Environmental Management
- Product and Process Audits
- Supplier Quality Assurance (SQA) Audits
- Product Quality and Validation Audits
- Depot and Asset Management Audits





# COMPONENT CONDITION ASSESSMENTS/TRIALS

**We have the technical engineering capabilities and experience to plan and run component or system condition assessments.**

Condition assessments/trials are used to understand the current health of assets with the aim of either increasing the life span or time between overhaul of components.



Assessments/trials are undertaken to produce a report on the current condition of the asset, areas of concern, and recommendations which can include improved maintenance or replacement activities.

We can either undertake or co-ordinate trials of the following methods.

- Oil and grease sampling analysis
- Metrology testing
- Product performance testing
- Air flow and pressure testing
- Strip down and condition assessment against reference standards



# PROJECT MANAGEMENT

**We have experienced Project Managers with the capability to plan, organise, secure, and manage resources to achieve our customers' requirements and deliver their unique goals and objectives.**

We ensure the agreed objectives are delivered to budget and within the agreed timescales.

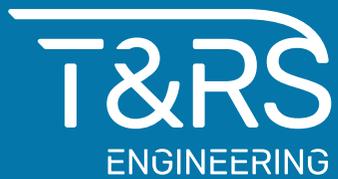
We employ the use of specialist project management software tools to control and deliver complex projects.

# JUST SOME OF THE CLIENTS WE ARE PROUD TO HAVE WORKED WITH



# OUR ACCREDITATIONS





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