TECHNICAL SERVICES
THAT KEEP YOUR RAILWAY
BUSINESS MOVING

AS A SERVICE COMPANY, STORK
STRIVES TO BE AN IMPORTANT FACTOR IN
THE SUCCESS OF ITS CLIENTS.
REACH Beyond Zero

Stork is fully committed to being recognised as a world leader in HSEQ. REACH Beyond Zero will help us achieve this goal.

REACH Beyond Zero is our HSEQ vision, to activate and engage all Stork employees to challenge themselves, to think and do more to improve our HSEQ culture and performance.

The REACH Beyond Zero vision is our catalyst to impact thinking, provide direction and to stimulate action for positive and lasting change at Stork.

By incorporating safety within our core values, REACH Beyond Zero provides us with the practical tools and support we need to help ensure we get every single employee home safely at the end of each and every shift.
## QUALIFICATIONS

<table>
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<th>Certification</th>
<th>Details</th>
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<tbody>
<tr>
<td>ISO 9001:2008</td>
<td>QUALITY MANAGEMENT CERTIFICATE.</td>
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<td>SCC**</td>
<td>SAFETY, HEALTH &amp; ENVIRONMENTAL CERTIFICATE FOR MAIN CONTRACTORS.</td>
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<td>DIN-EN15085-2, CL1 Welding Rail Vehicles and Components</td>
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Stork's history dates back to 1827 with the establishment of Werkspoor in the Netherlands.

Stork itself was founded in 1868, and in 1954 Stork and Werkspoor merged into Stork N.V.

From an initial focus on heavy capital goods, Stork transformed itself into a manufacturer of lighter industrial production equipment for niche markets and a technical services provider.
As a service company, Stork Railway Services strives to be an important factor in the success of its clients. Driven by a pro-active approach, Stork focuses on providing the best service to its customers.
OVERHAUL

- Preventive maintenance
- Flexible projects
- Thorough technical scope definition according maintenance manual
OVERHAUL - CASE

- Customer needed a compleet revision of 224 pcs of bogies according specification
- SRS realised a turnaround time 4 weeks per set of bogies
- Result: - Zero defects
  - Updated technology
  - Delivery on time
REPAIR

• Corrective maintenance

• Planned or unplanned service

• Delivery on time and certified quality
REPAIR - CASE

• Train was derailed due to unforeseen active rail switch during passing of the train
• SRS provided inspection and repair of the bogies (frame and components)
• Result: Detailed insight into to the state of the bogie and after a quick repair fully functional bogies, ready for a safe operation.
PITSTOP

- When turnaround time is important
- Planned optimal performance
- Guaranteed fast and reliable delivery
PITSTOP - CASE

- Customer needed quick service for change of axle bearings
- SRS worked out with the customer optimal turnaround time for service
- Result: Axle bearings have been changed during the morning in the afternoon the wheelset is assembled in the bogie and the train starts operation on the same day
ASSET MANAGEMENT

- Optimise the maintenance strategy
- Thorough analysis and research
- Achieve high reliability while minimizing cost and ensuring a safe operation
ASSET MANAGEMENT - CASE

• Customer wants to extend the bogie maintenance interval in an inexpensive and safe manner
• After detailed research of all bogie components (theoretical and practical) a proposal was made to optimize the bogie maintenance cycle
• Result: reduced maintenance cost per km and better control of the asset operation.
MAINTENANCE RESEARCH

• Investigating actual status bogie

• Optimal maintenance scope and innovative technical solutions

• Increase reliability and continued operation
• Customer needed a check on the configuration of close tolerance fit between wheel and axle

• SRS performed analysis of the close tolerance configuration

• Result: Improvement of the caractéristique of the close tolerance fit and increase of safety
FIELD SERVICE

• When an immediate problem occurs or onsite inspection is required

• Specialised mechanics and equipment are available to ensure a reliable solution and provide a quick continuation of your operation
FIELD SERVICE - CASE

• Customer needed to know the state of his gearboxes and monitor possible degradation over time
• SRS provided on-site vibration measurement, repeated over time
• Result: better insight in gearbox performance and gearbox maintenance before potential breakdown.
MAINTENANCE STAFF

• Experienced and qualified staff

• Integrated in the operation of the customer

• With the effectiveness and reliability that can be expected
MAINTENANCE STAFF - CASE

- Customer needed to quickly change wheel tyres to continue operations
- SRS put a team of 8 mechanics to work. In 9 weeks all bogies were ready
- Result: continuous and safe operation
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