STORK GEARS & SERVICES

YOUR EXPERT PARTNER FOR GEARBOX REPAIRS AND OVERHAULS.
WHY GEARS & SERVICES

FULL SERVICE OFFERING FOR GEARBOXES - WITH UNRIVALLED SPEED

Stork product line Gears & Services is a brand independent, world class solutions provider for gearboxes, delivering a customer centered service with unrivalled speed for Oil & Gas, Chemicals, Power, Marine and Wind industry.

We have decades of experience with our maintenance and repair program, the development of custom-built gearboxes and gearbox components. With an impressive machining workshop and leading edge engineering department, Stork is able to develop customised, effective and efficient solutions. At an unrivalled speed and with 24/7 availability.

Speed:
We combine years of experience with modern manufacturing facilities and an extensive inventory to deliver fast and impeccable service.

Full service:
From on-site services like inspections, maintenance and commissioning, right up to gearbox repair, manufacturing of gears and gearbox components. Working to the tightest deadlines, all types of gearboxes and drives can be repaired.

Experience:
We designed and manufactured hundreds of specified gearboxes. Naturally within the shortest delivery time possible. From first initial contact to final commissioning, our engineers will work with you to find a solution that is best for your application.

Innovation:
The engineering capabilities within Stork resulted in a patented innovative repair design (laser cladding).

How we add value:
- 24/7 availability
- Extensive experience in brand-independent repairs
- One-stop shop – the full range of services for your gearbox repair
- Over 50 years of experience in manufacturing from drawings, specifications and reverse engineering from samples
- Custom-built gearboxes
- OEM of Rademakers, Brevo, Kuypers and Conrad
- Stock program for direct availability of components
- Award-winning in-house safety program
- Award-winning repair techniques
- Service hubs in all major regions
- Customer-centered repair approach
- Unique repair solutions for re-use of existing components
OUR MAINTENANCE SERVICE

24/7 repair and maintenance service by a reliable service provider

Your gearbox challenge
Maintaining rotating equipment is an important aspect for improved performance and reliability. Well-maintained equipment will have a longer lifetime, which benefits your revenues and reduces the risk of unplanned downtime.

How we can help
Stork has developed a gearbox maintenance program consisting of a diagnostics phase, inspection phase (in-shop or on-site) and a repair service, available 24/7.

Our proven maintenance program is set up to minimise downtime and is supported by our in-house diagnostic department, our machining department and our in-house component manufacturing.

We have proven capabilities in a wide variety of international projects, more than 4000 inspections performed with a track record of more than 20 years.

Your benefit:
24/7 availability and a proven, brand-independent gearbox maintenance program.
OUR MANUFACTURING SERVICES

Leading edge knowledge and capabilities for high quality – custom made gearboxes

Your gearbox challenge
When you are in need of a special gearbox for your installation or vessel, a custom built gearbox is sometimes the only option if you do not want to change the design of your application.

How we can help
Stork is able to build a custom gearbox that fits seamlessly into your design with no adjustments.

Our service-oriented mindset allows us to design and manufacture high quality gearboxes much faster than other gearbox manufacturers.

As a result of our history as an original equipment manufacturer, we have the complete design specifications for Rademakers, Conrad, Kuypers and Brevo gearboxes. Stork is the official original equipment manufacturer for these brands.

Your benefit:
A custom specific gearbox that fits seamlessly into the design.

Your gearbox challenge
Balancing downtime, maintenance cost control with quality is a challenge for all major industries. Combined with missing drawings of a broken gearbox component the challenge becomes even bigger.

Storks unique combination of expertise and experience enables us to re-engineer gearbox components with unrivalled speed.

How we can help
We are able to offer enormous flexibility in terms of the size and weight of components. We can make numerous modifications.

The technical skills of our in-house engineering department combined with our effective reverse engineering capabilities, provides us with all the information required to successfully replicate and improve any part, whatever the damage is. This results in the design and manufacturing of parts which meet or exceed the specifications of the original.

Our machining department is set up to offer fast delivery.

Your benefit:
Best possible delivery time with a cost level competitive to OEM parts at an unrivalled speed.

Gearbox component manufacturing with unrivalled speed
**Optimised repair procedure**
We are able to deliver high quality gearbox repair services through our standardised repair procedure.

The first step is to establish the condition of the gearbox with gear clearances, contact patterns and bearing settings, all being carefully recorded before the gearbox is dismantled. After the investigation is completed, the best available option will be discussed with the client; a standard overhaul or a complete repair. If necessary, a team of specialists will investigate the cause of any complicated malfunctions.

Each gearbox will be subjected to a complete test run in our workshop. Not only to ensure that the installation complies to our standards but also to make sure that the gearbox will be operational for an extended and trouble-free period of time.

**Dedicated service engineers with global reach**
Our service engineers play a critical role in everything we do. They embody our knowledge, uphold our reputation and deliver on our promises. This expert team is always ready to assist you, wherever you may be located. We offer inspection, overhaul, shop repair (including tests), on-site repair, reverse engineering, manufacturing, assembly and on-site alignment services.

**24/7 service**
Our gearbox support service is designed to be available 24 hours a day, 7 days a week. No matter where in the world you operate, our engineers will respond with unrivalled speed.

**State-of-the-art workshop**
We have gearbox service facilities in Rotterdam, the Netherlands and Essen, Germany. These advanced technical facilities are equipped with all essential machinery, including heavy presses, induction heaters, hydraulic pullers, bolt tensioning equipment and an extensive range of measuring machines.
Specialised diagnostic services
In order to assess the condition of equipment, extensive training, experience and specialised tools are required. Stork has all of these aspects combined in the diagnostic engineer team. We are really proud to have such a skilled team of engineers, constantly prepared and providing service worldwide.

Our diagnostic team can help optimise your maintenance and therefore reduce your costs. They are able to perform a broad range of inspections. The inspection can be customised, depending on the operational significance of your installation.

After assessment of the general condition we can immediately start the repair process to make sure the installation has minimal downtime.

Inspection methods:
- Vibration measurements (CSI and ADRE)
- Visual inspections (with video scope)
- Accurate geometric measurements
- Infrared measurements
- Torque measurements
- Shaft alignments
- Oil analysis
- On-site balancing

Dedicated engineering department
More than five decades of hands-on experience and know-how provides Stork with the ability to understand and calculate complicated design modifications to improve the capabilities of any standard gearbox and increase its performance to higher levels.

The engineering department takes on every challenge to solve your problem, whether it is a reliability, a strength or a vibrational related issue or disfunction. We are specialised in marine retrofits and the capability of repairing your vessel under full class coverage within the shortest delivery time.

Some facts about our engineering department:
- Accurate tailored high-end calculation methods such as geographical profile alterations
- State-of-the-art software (Kisssoft, Timken, SKF and many in-house developed software for plain bearings, Stockigt epicyclic gearboxes, Ansys-based software and more)
- Compliant to DIN, AGMA, ISO, API and many others
- Extended knowledge in shaft and bearing calculations
- Certified from ABS, Lloyd’s, BV, Rina and many others
- 2D and 3D solid modeling applications

Advanced machining department
We are able to modify nearly all gearbox components, no matter how complicated. All machines are operated 24/7 by skilled engineers, dedicated to create quality components. We are capable of reproducing any type of gear.

The large machining and metal working department houses several high performance machines for the (CNC) milling, (CNC) turning, (CNC) grinding and (CNC) profile grinding of components and the slotting of keyways.

Some facts about our machining department:
- We deliver a wide variety of high precision gear measuring equipment, capable of measuring gear geometry up into the micron range
- The machining capabilities are both versatile and flexible, allowing us to interact and respond to any occurring situation in the shortest period of time
- The precision grinding process defines the final quality and geometry of the gears we produce

Innovative repair solutions - laser cladding
Stork offers laser cladding, an innovative solution for the repair and upgrade of valuable components. By applying metallic coatings with a powerful diode laser, a component can simultaneously be repaired and protected against future wear and corrosion. The result is 100% metallurgical bonding; it will appear as if the component was manufactured in one piece.

Our laser cladding technology was developed in close cooperation with the ILT Fraunhofer institute in Aachen and has proven to be an innovative and appreciated technology for our clients all over the world. Our laser cladding device has many applications and can be used in our workshop or deployed on-site, anywhere in the world.

Your benefits:
- Repair or upgrade of valuable components
- Cost effective
- Minimal heat input, no deformation
- Minimised downtime
- Worldwide on-site repair
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