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oil & gas
rail

aftermarket expertise driven by David Brown

wind
solar
mining
power



Aftermarket expertise driven by David Brown

The unique experience of David Brown's aftermarket business unit is founded on 150 years of engineering for some of industry's most challenging applications. This gives us an unparalleled insight into the environments in which gearboxes operate, and how different types and applications function. Our experience in keeping our customers' gearboxes running economically through key aftermarket activities such as asset management and strategic spares availability, tells us that in mission critical operations cutting corners on maintenance, repair and overhaul comes with associated risks and costs.

David Brown's aftermarket support is always about delivering solutions to problems through high quality engineering. Our aim is to minimise downtime and reduce life time costs to ensure our customers' have long-term asset availability and a healthy balance sheet.

Not only do we provide aftermarket support for our own gearboxes we can inspect, overhaul and repair other manufacturers' units, such as:

- Allen
- Eickhoff
- Falk
- Flender
- Hansen
- Jahnelt Kestermann
- Lohmann & Stolterfoht
- Lufkin
- Moventas
- Philadelphia Gear
- Renk
- Winergy

ENGINEERED AROUND YOU: the name David Brown has been an integral part of industry for more than 150 years. This is because everything that we produce is driven by client needs. We completely immerse ourselves in the demands you face, because we know that the best way to solve a problem is to look at it from every possible angle. This is engineered around you.



Lifetime support

We are proudly collaborative and pride ourselves on the long term relationships we have with our customers – even if it's just advice they need, our customers know they can always rely on David Brown to provide an honest, professional perspective.

In situ inspection

Using the latest in video endoscope technology, our service engineers inspect your gearbox to ensure all components are running smoothly. Regular in situ inspections can help identify issues before they cause failure so they are an ideal way to reduce expenditure on emergency repairs.

Gearbox repair

Depending on your gearbox model, our engineers can often conduct repairs in situ to reduce downtime to its lowest level. If your gearbox cannot be repaired at site, our proposals team will strive to minimise the costs associated with removing your gearbox from its application.

Gearbox upgrade

To ensure your application operates smoothly, David Brown will thoroughly inspect your gearbox to provide full technical reports and upgrade recommendations for gearboxes experiencing serial failure. Our global manufacturing capability facilitates design and manufacture of new, upgraded components to ISO 9001:2008.

Strategic spares management

Reducing unscheduled downtime and maintaining high performance operations through strategic component replacement can help you manage your operating costs more effectively.

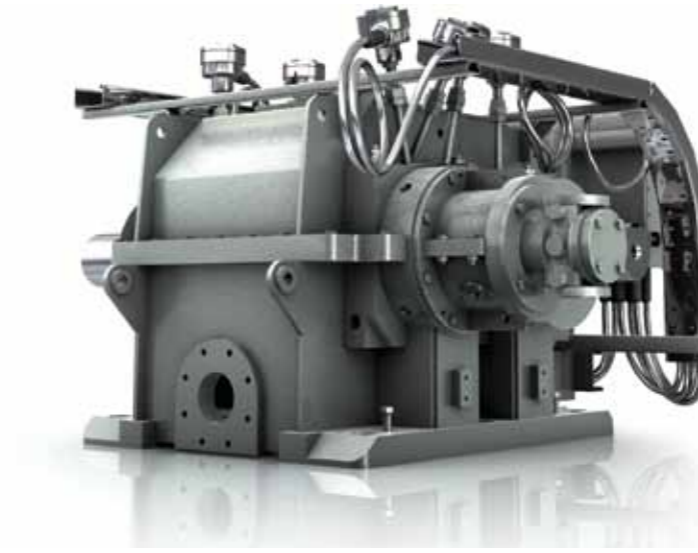
David Brown provides comprehensive strategic spares management plans designed specifically for your application and its operating environment.

Full asset management

Our asset management programmes proactively look after your gearbox with regular inspection, carefully scheduled repair and upgrades. As part of your asset management programme we can hold drop in replacement gearboxes to ensure minimal downtime and maximum operational ability.

Warranties

David Brown will warrant that the parts supplied by David Brown are free from defects in workmanship, or materials for an agreed period of time. David Brown will also warrant that the parts and services will meet any specification expressly agreed with the customer. An "as new" warranty can be negotiated.



On call anytime, anywhere, in any industry

In business critical processes, downtime is never an option. If the worst happens, speed is key and no one responds faster than David Brown. We are proud to support the world's critical industries.



Cement production

- Aftermarket services for vertical/horizontal mill drives and girth gears.
- Our latest project saw David Brown service engineers provide rapid upgrade for a raw mill gearbox at a leading cement production site in the UK.

Conventional power

- Aftermarket services for vertical mill drives, boiler feed pump drives, conveyor drives, stacker reclaimer drives, high speed drives as well as girth gears and single stage slurry pump drives.
- For over 15 years we have refurbished and upgraded critical coal crushing gear units at a major UK power station, as a result of this we recently signed an exclusive five year deal to overhaul their gearbox fleet.

Oil, gas and petrochemical

- Aftermarket services for pump drives, compressor drives, generator drives, top drives, jack up drives, reciprocating pumps, fire water pumps as well as ancillary drives.
- A David Brown service engineer recently spent three weeks offshore providing a complete overhaul and upgrade for a water injection pump gearbox to suit our customer's new pump installation.

Mining

- Aftermarket services for girth gears, conveyor drives, mill drives, barring drives, slurry pump drives, agitator drives and floatation drives. As well as strategic spares for electric face shovels and drag lines.
- Already this year, David Brown field service engineers based in Australia have provided service and repair to one of the world's largest mine operators.

Rail

- Aftermarket services for metro, electric multiple units (EMU), diesel multiple units (DMU), tram/LRV, locomotive and high speed rail.
- David Brown rail engineers are currently overhauling a fleet of DMUs for one of Thailand's largest rail end users.

Renewables

- Aftermarket services for wind turbine, solar and hydroelectric gearboxes.
- We are proud to have been awarded a rolling contract to provide rapid repair to the world's leading wind turbine OEM.

Other industries

- Defence – land and marine
- Food production and packaging
- Material handling
- Marine
- Metals
- Pharmaceutical
- Plastics
- Power generation – CHP
- Rubber
- Water/irrigation/flood defence



Our people – dedicated to our customers

David Brown is one of the only gearbox manufacturers who operate a dedicated aftermarket team, working from service and repair centres globally. Fast response is key to any customer who requires aftermarket services, that's why our service centres will always strive to ensure your gear system is up and running in the fastest possible time.

Our team comprises:

- Engineering – giving our customers sound technical advice and speedy repair and upgrade using our gearbox OEM experience.
- Site service coordination – ensuring fast response anywhere in the world, with the best engineers for your application.
- Quotations – ensuring you always have the best prices at your specified lead time.
- Project management teams – coordinating the repair and redelivery of your gearbox at our global service centres.

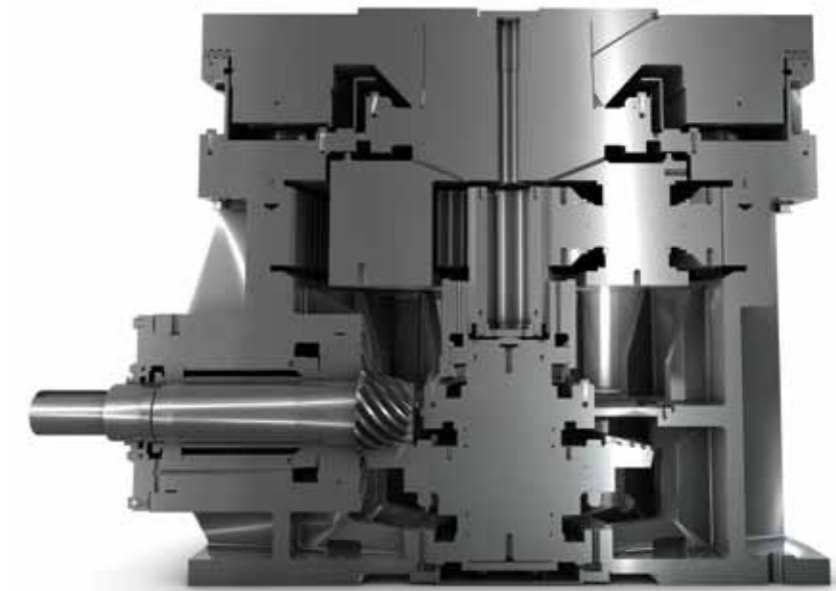


Gear Academy

We are committed to developing the skills and knowledge of our team, and in 2009 we launched the David Brown Gear Academy which trains employees in over 300 core skills required to excel in gear technology. The David Brown Gear Academy is not just restricted to David Brown employees, we actively encourage our customers to attend the award winning course to enrich their knowledge of complex gear systems.

Key features:

- Gear Academy enables our customers to increase their knowledge of gearing and managing gear systems for optimal performance.
- We continually develop our service engineers' expertise with both practical and academic training upto MSc level.
- Gear Academy enables continuity and transfer of skills into both apprentices and experienced employees.



A day in the life of Mark Flinders – Service Engineer

Mark Flinders has worked for David Brown for over 14 years and one of his most recent offshore operations involved working on offshore platforms in the North Sea.



In response to our customer's urgent call, I made an immediate visit to their platform, arriving at the airport less than two hours after first communication.

The customer had asked that we work on their gas turbine's gearbox, which was approximately eight tons in weight. The gas turbines consist of a jet turbine which powers the gearbox at high speed to turn the generator that provides electricity for the platform. There are three generators in total and David Brown already had previous experience of this facility as we'd recently overhauled the gearbox from one of the alternative generators.

The main reason for my visit was to remove the white metal bearings and gearing from the gearbox as they had become damaged due to contaminants. These components were to be returned to David Brown for refurbishment and replacement.

During the removal procedure I noticed the contaminants had entered the oil ways. I worked with the customer to explain what this meant to the gearbox and their business as a whole. I advised that the gearcase would have to be thoroughly cleaned to avoid contamination of the new white metal bearings and gearing, which would result in them becoming unserviceable. As soon as the customer understood the issue at hand, it was decided that in addition to removing the bearings and gears, the whole gearbox was to be extracted and returned to David Brown for a complete overhaul.

Due to access and egress problems within the turbine module, I had to strip down the entire gearbox into component parts and then move them to a point on the platform where they could be transported onto a ship. Flexibility is key to service engineering and I had to think on my feet, finding solutions to specific and unique issues to ensure the gearbox could be safely stripped and transported.

On arrival at David Brown, the gearcase and parts were inspected, cleaned and where necessary, parts were replaced or reworked. The entire gearbox was re-built at David Brown, this included the installation of new instrumentation (RTDs and proximity probes) and internal gearcase modifications. The re-built gearbox was then thoroughly tested before being stripped down into component parts and packed for transportation back to the platform. After all repairs and modifications were completed, I returned to the platform and rebuilt the gearbox to the correct David Brown standards.

Throughout the project we worked closely with our customer to keep them informed and provide reassurance that the gearbox would be up and running in the shortest possible time frame. Specific and detailed understanding of the gearbox, advanced technical knowledge and ongoing training is key to David Brown's aftermarket capabilities and this was key to the project's success.

Global support

David Brown's experience in asset management will allow you to concentrate on running your business by allowing us to improve process performance and reduce long term costs with our renowned expertise. Together we will create a management strategy to maximise equipment availability and minimise the total cost of ownership throughout the life of your equipment. David Brown has 60 service engineers based in strategic locations across the globe, primed to deal with any problem you may encounter anytime, anywhere in the world.



Global support

- Manufacturing
 - Australia
 - China
 - Canada
 - France
 - South Africa
 - UK
 - USA
- Service centres
 - Australia
 - Chile
 - China
 - France
 - India
 - Indonesia
 - South Africa
 - UAE
 - UK
 - USA
- Sales offices
 - Australia
 - Brazil
 - Chile
 - China
 - Indonesia
 - Morocco
 - Singapore
- Planned service centres
 - Brazil
 - Peru
 - Philippines
 - Zambia
 - USA

