



Aerospace Bearing Repair Services



Reliable and Superior Quality Aerospace Bearing Repair



Barden – The Aerospace Experts

For more than six decades the Barden name has been synonymous with quality, precision and excellence in the aerospace and super precision industries. Aerospace applications form a large part of our core business and include products for a wide variety of aircraft accessories and critical components.

Barden operates a self-contained Diagnosis and Repair (D&R) station in addition to its design and manufacturing facilities. Our facilities are Civil Aviation Authority (CAA) approved and all refurbished bearings can offer full traceability if required.

Our EASA Part-145 approval enables us to service commercial aircraft maintenance programmes. The repair station can also serve other industries where strict regulatory approvals are necessary, including the nuclear, rail and military industries.

Barden is a member of the multinational Schaeffler Group which specialises in bearing technology and precision products for applications in the aerospace, automotive and industrial plant industries. They have refurbishment facilities servicing bearings in Germany, Canada and the USA.

Repair or Replace?

Maintenance programmes for aircraft engine components and APUs have become increasingly important, with operators seeking the benefits of maximising equipment life. With frequent maintenance required and downtime costs increasing, component repair is often an economical and practical solution.

Barden's EASA Part-145 approved diagnosis and repair (D&R) facility for aerospace approved bearings provides a viable alternative to replacement.

Costs can be much less than for new bearings and with a typical turnaround time of just 7 days, the impact of lengthy downtime can be significantly reduced. Bearings are returned to an "as-new" operating condition, with full aerospace approval.

Repair Options

We complete a full analysis on all bearings to determine the level of wear and to help our customers make the best economic judgement. The Barden D&R facility offers expert advice and, if necessary, refurbishment of bearings up to level 2.

Why bearing repair?

Barden's repair service provides customers with a specialist solution when it's needed most. We understand it's vital that an aircraft spends time in the air and not in the hangar. This is why we will return bearings to an as-new condition in less time, for less cost, and with the high standards you would expect from Barden, the aerospace experts.



This generally consists of:

- **Level 1** – Cleaning, dimensional and visual inspection of bearing components.
- **Level 2** – Level 1 plus refinishing of raceways, replating or replacement of cages and replacement of rolling elements.

Barden specialises in the repair of bearings of up to 300mm for any industry where regulatory approvals are high or where traceability of the bearings is required. End applications include small engines, gearboxes, oil pumps and auxiliary power units (APUs).

More than a Repair Station

Barden D&R offers:

- **A cost-effective solution.** The cost of refurbishment can be significantly lower than the cost of replacement bearings.
- **Minimise downtime.** With the lead time for replacement bearings taking anything from 12 to 24 months, Barden's typical turnaround time of just seven days can greatly reduce the downtime associated with worn or damaged bearings.
- **Comprehensive service.** Refurbishment of bearings is not restricted to those manufactured by Barden. With the correct approvals, Barden D&R can refurbish bearings from any manufacturer.
- **Extended bearing life.** Repair of bearings can significantly increase operating life.
- **Worldwide coverage.** Barden is part of an extensive network of D&R stations. With facilities located in the UK, Germany, Canada and the USA we can offer superior repair services wherever our customer is located.
- **Experience and expertise.** Barden is a world leader in super precision ball bearings, with several decades of expertise in the aerospace industry. With state-of-the-art facilities and a highly experienced engineering division, we offer all our customers **Precision with Vision.**



precision
with **VISION**



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