

Starter Generator Bearings



The Barden Corporation

A Member of the Schaeffler Group

For a starter generator application there are several things to consider when choosing a quality bearing.

...Insist on Precision

- High Quality aerospace bearing steel - ultra clean with full traceability
- Super finished races for improved lubricant life and maximum EHD film thickness
- Grade 5 balls matched for size within the bearing to 5 millionths inch
- Complete line of seals – from high speed Flexeals to high temperature molded Viton seals (operation to 550F). Both seals have excellent resistance to aircraft hydraulic fluid.
- Unique T type retainer made of phenolic with aluminum side plates reinforced with rivets. Allows for maximum load capacity and high speed (similar to angular contact) in a worry free radial bearing design.



Barden's capabilities for starter generator bearings include:

- Long standing supplier of bearings for use in aerospace starter generators – all sizes and configurations
- Full engineering support during the design and selection stage
- Post operation analysis available to determine performance failures
- Manufacturing in US and UK for worldwide support
- Dedicated full service aerospace aftermarket distributors
- World class quality control resulting in superior bearing performance
- Ability to provide specialized corrosion resistant product provided from Cronidur 30 steel
- Cronidur steel for the maximum performance ceramic balls available for extended lubrication life and wear reduction
- Flexeals (developed by Barden for low torque and superior sealing)
- NADCAP Accreditation
- AS9100, ISO 9001, ISO 14001, FAA Part 145 Repair Station on site
- Eddy Current, Barkhausen, Magnetic Particle, Fluorescent Penetrant
- Proprietary Ultrasonic inspection for ceramic balls
- Testing can identify flaws and imperfections in bearing components that otherwise may not be detected

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