



Super Precision in Space

FAG and Barden, proven partners to the aerospace industry

Since the beginning of space exploration, FAG and Barden have engineered some of the world's most technologically advanced components for the space industry.

Our custom-designed super precision bearings and assemblies offer outstanding performance and reliability.

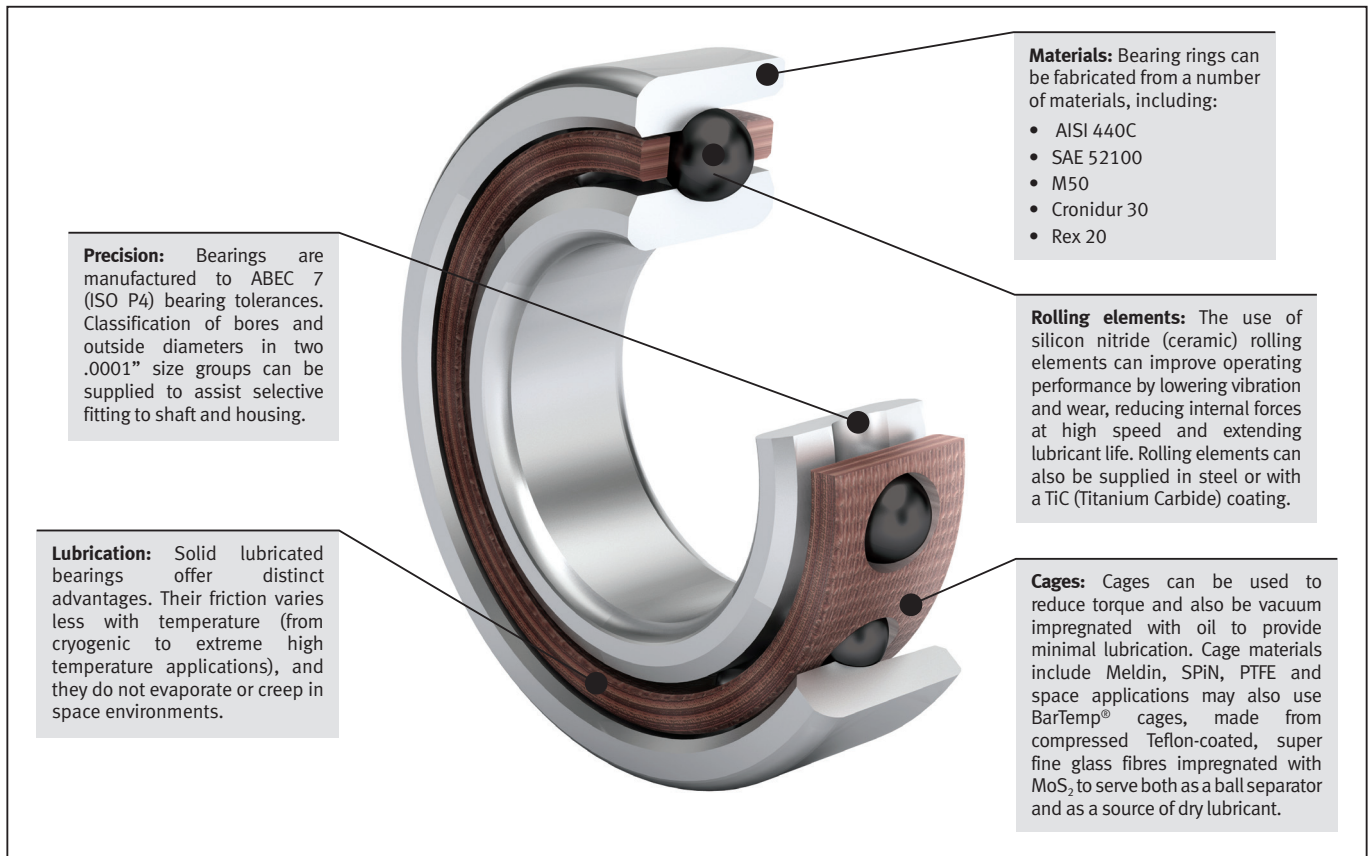
These solutions can include:

- Reliable operation in extreme temperatures (cryogenic to 900°F/482°C).
- Wide range of lubricants available to suit specific applications.
- Low torque at low temperatures.
- Operation in air, most gases and vacuum environments.
- Virtually unlimited storage life.
- 100% inspection and test with full documentation.
- Supported by the global resources of the Schaeffler Group.

FAG

 **BARDEN**

Design features



Example Applications

- Cardan joint bearings for rocket exhaust adjustment.
- Momentum wheel bearings for three axis stabilisation.
- Bearings for solar array actuators.
- Manipulation arms.
- Unmanned vehicles.
- Radar antenna drives for space vehicles.
- Turbopumps for space launch vehicles.

Committed to Excellence

Bearings from FAG/Barden offer the highest level of quality and reliability. As part of the Aerospace Division of the multinational industrial supplier, Schaeffler, our engineers have access to a wealth of global experience in R&D and product development. We work closely alongside customers and suppliers in every area of bearing design, application, testing and development to ensure all requirements are met.

Quality Management

Our Quality Management Systems are accredited to ISO 9001 and Aerospace Standard AS9100. In addition, we are able to satisfy specific customer requirements such as The National Aerospace and Defense Contractors Accreditation Program (Nadcap) for our heat treatment and non-destructive testing processes; and to satisfy regulatory requirements imposed by the Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA).

Specialist Requirements

All products from FAG/Barden can offer:

- Full lot traceability.
- Assembly, test and packaging of all components in class 100 cleanroom environments.
- First article or 100% dimensional documentation.
- Failure Mode & Effects Analysis (FMEA).
- Fully customised design service based on application specific requirements.

FAG Aerospace

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