



Super Precision in Space

As a trusted partner to the aerospace industry, Barden has engineered some of the world's most advanced and innovative components for the global space sector.

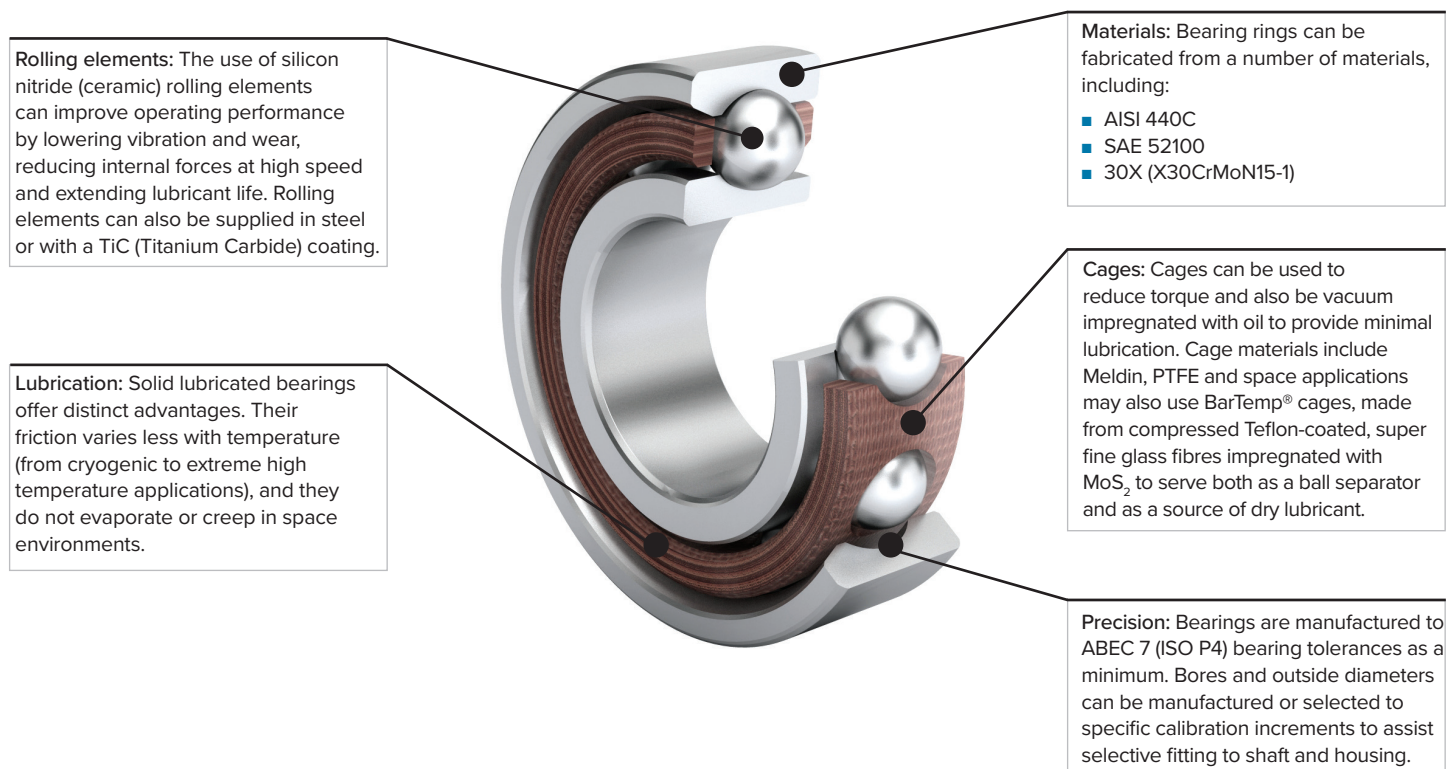
Barden's custom-designed super precision bearings and assemblies offer outstanding performance and reliability.

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.



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.

Committed to Excellence

Barden aerospace bearings offer the highest level of quality and reliability and has been a market leader in the sector for more than 70 years.

Together with partner company, HQW Precision GmbH, Barden engineers work at the cutting-edge of bearing development. Our products play a critical role in aerospace technologies and we work closely with customers in every area of bearing design, application, testing and development.

Quality Management

Our Quality Management Systems are accredited to Aerospace Standards AS9100 and AS9120. In addition, we are able to satisfy specific customer requirements such as The National Aerospace and Defense Contractors Accreditation Program (Nadcap) for heat treatment and non-destructive testing processes.

Specialist Requirements

All Barden products offer:

- Full lot traceability.
- Assembly, test and packaging of all components in Class 5 cleanroom environments.
- First article or 100% dimensional documentation.
- Failure Mode & Effects Analysis (FMEA).
- Fully customised design service based on application specific requirements.

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Partners in Precision