

Value Beyond the Part™

Beyond exceptional product quality, selection and availability, AST's commitment to providing a full range of value-added services is what sets us apart from other bearing suppliers.

Engineering, Consulting and Design – Professional engineering services to solve challenging design problems.

Bearing Applications Engineering – Selecting exactly the right product and specifications for your application.

Bearing Lubrication and Relubrication – Custom lubrication for optimum performance.

Failure Analyses – Understand why bearings prematurely failed to remediate and prevent future occurrences.

Inspection and Verification – AST has the equipment and experience to provide inspection and product verification services on the bearings we provide and on third party bearings.

Micro Grade Grease Plating™ – Unique AST lubrication process for low startup and low running torque.

Custom Packaging – Packaging designed to improve your production and shipping efficiencies.

Inventory Management – Assistance with JIT delivery and numerous other Supply Chain Management issues.

About AST Bearings

AST is a leading supplier of precision bearings and bearing related products across a large spectrum of customers — primarily OEMs and major distributors. In addition to our off-highway products, we also supply a wide range of industries such as aerospace, medical, food processing, green energy, robotics, high tech, industrial products and many more.

Since 1963, AST has been making our customers more competitive. We develop strong partnerships with our customers; these partnerships are based on understanding our customers' challenges and providing innovative solutions. AST embraces our role as a true product development partner. As precision bearing experts, AST recommendations go beyond bearing type, size and lubricant. Meticulously focusing on your application from the cutting edge of bearing technology, our engineering team uses advanced tools to ensure your best bearing choice.

For additional information, visit the company online at
www.astbearings.com.

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To learn more, visit astbearings.com

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Value Beyond the Part™

For the Medical Industry

To learn more, visit astbearings.com

AST Bearings provides a range of products tailored to the demanding applications of the medical industry.

These applications include surgical and dental tools, diagnostic and laboratory equipment, pumps and much more.

When choosing bearings for medical applications, considerations include high speeds, low noise, peak performance, service life and resistance to harsh environments, aggressive chemicals or fluids.


These factors coupled with strict regulations make selecting the correct bearing of the utmost importance.

In addition to superb product quality, AST believes in providing **Value Beyond the Part™** and offers a flexible approach to problem solving. Our engineers and bearing experts are ready to work with you in selecting the optimum material, size, lubrication and more, ensuring that you choose the right bearing for your application – Put us to the test today!


See below for a sampling of our most popular medical bearing products, and visit www.astbearings.com for our full line of products.




Products




Miniature ball bearings have an outside diameter of less than $\frac{3}{8}$ " (<9.525 mm) or are small bearings with an outside diameter less than or equal to $\frac{1}{2}$ " (≤ 12.7 mm) having a ratio of outside diameter to inside diameter equal to or less than two. AST specializes in miniature bearings of all types, contact us to see our full catalogue.




Instrument ball bearings are not limited to certain sizes. They are precision ball bearings that must meet two or more of the following criteria: low or uniform starting or running torque; smooth operation or vibration limitations; a definite contact angle or preload or both; high cleanliness standards.




Ball bearings can support moderate radial loads and moderate axial loads (parallel to the shaft). They can operate at high speeds. Ball bearings with shields or seals for protection can be lubricated to last for the operating life.



Roller bearings have high-radial load capacity. In comparison to ball bearings, tapered roller bearings offer the best combination of radial and axial load capacity. They operate at moderate to high speeds. The lubrication method must be carefully considered during the design phase when using roller bearings.



Linear bushing bearings and linear way bearings incorporate several rows of re-circulating balls or rollers for low-friction and precise linear motion. Linear bushing bearings use a round shaft and linear way bearings have a rectangular shaped track.



Sub-assemblies incorporate precision bearings and components manufactured to the most exacting specifications. AST can conduct design reviews and provide assemblies manufactured to your specifications or ours. Our highly skilled technicians can provide you with a reliable assembly at a significant cost savings.