

Miniature Ball Bearings

Miniature ball bearings are precision components designed for applications requiring efficient rotational movement in confined spaces. They are manufactured to tight tolerances using materials like stainless steel and ceramic, ensuring low friction and long service life.



Overview

Precision Miniature Ball Bearings

Miniature and small-sized ball bearings are precision-engineered components designed for applications requiring smooth, efficient rotational movement in confined spaces. These bearings are manufactured to tight tolerances to ensure minimal noise, low friction, and long service life. They are essential for high-performance industries including medical devices, robotics, aerospace, and precision instrumentation.

Technical Details

Key Performance Features

- Low friction operation
- Minimal noise output
- High-precision tolerances
- Compact design for confined spaces

Common Materials

Stainless Steel, Chrome Steel, Ceramic

Applications

Primary Industries

Medical Devices • Robotics • Aerospace • Precision Instruments

Construction

Core Components

- Inner ring
- Outer ring
- Ball set
- Cage/Retainer