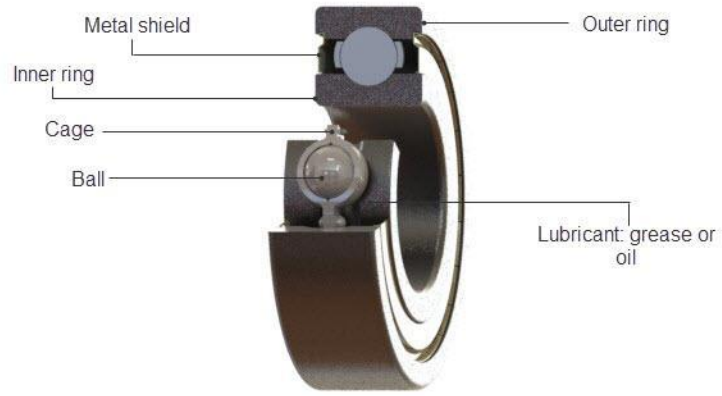
Radial Ball Bearings

Ball bearings are the most widely used type of rolling element bearing in the world today due to their versatility and overall performance. Below is a cross sectional view of a typical radial ball bearing. These bearings are produced with high quality materials and exacting tolerances. Each of the individual components such as the rings, balls, cage, shield or seal, and lubricant contribute to the bearings ability to perform in a variety of applications and environments. The designer can choose from an array of materials, precision levels, lubricants, and internal designs to achieve the desired life and performance.



Characteristics of Radial Ball Bearings:

Radial loads:	fair
Axial loads:	fair (two directions)
Combined loading:	fair
High speeds:	excellent
Low Noise:	excellent
Low torque:	excellent
Rotational accuracy:	excellent
Angular misalignment:	good

Radial ball bearings are easily damaged when subjected to shock or impact loads.

Radial ball bearings require lubrication and interior surface must be protected from contaminants or other debris. Shields or seals are highly recommended.