

Bearing Types

Minebea's main ball bearing product is the single row radial deep groove ball bearing. Deep groove radial ball bearings with shields or seals are available to provide protection from contamination and grease leakage. Flange type and snap ring type bearings are available for improved housing fits. NMB also produces ultra thin type radial ball bearings, thrust ball bearings, and bearings.

Radial Deep Groove Ball Bearings (R-, L-, RI-)



Characteristics:

This is the most common type of radial ball bearing. This type of ball bearing can support both radial and axial loads.

Types:

Open, shielded, and sealed
Metric and Inch series

Radial Deep Groove Ball Bearings with Outer Snap Ring (RNR-, LNR-)



Characteristics:

This is a radial ball bearing with an external retaining ring featured on one side of the outer ring surface. This design assists with axial positioning of the bearing in a housing.

Types:

Open and shielded
*High carbon chromium steel is the standard material

Flanged Radial Deep Groove Ball Bearings (RF-, LF-, RIF-)



Characteristics:

This is a radial ball bearing with a flange featured on one side of the outer ring surface. It assists with axial positioning of the bearing in a housing.

Types:

Open, shielded, and sealed
Metric and Inch series

Ultra Thin Radial Ball Bearings (A-)



Characteristics:

The bore relative to the outer diameter is larger than those of standard radial ball bearings.

Types:

Open and shielded
*Stainless steel is the standard material