SKF specialty ball bearings
Specialized bearing solutions from the world’s bearing specialist
Stainless steel deep groove ball bearings
Reliable performance in corrosive environments
When corrosion resistance is essential, so are SKF stainless steel deep groove ball bearings. Engineered for harsh application requirements, SKF stainless steel deep groove ball bearings should be your first choice whenever corrosive or abrasive materials and moisture are present. Available in a wide range of diameters and types, as well as metric and inch sizes.

Benefits
• Resistance to corrosion in moist and other corrosive environments
• Sealed versions highly versatile due to different greases
• Suitable for hygienically sensitive areas
• Carry radial and axial loads acting in both directions at high speeds

Typical applications
• Food and beverage
• Pharmaceutical
• Chemical and hydrocarbon processing
• Healthcare
• Pulp and paper
• Offshore and marine

SKF specialty ball bearings
Corrosive chemicals. Abrasive materials. Hard-to-lubricate or tiny components. For certain applications and conditions, standard ball bearings simply can’t get the job done. If your application calls for specialty ball bearings, look to the bearing specialists at SKF. From stainless steel to polymer materials, inch-size bearings to loose steel balls, SKF offers a range of specialized ball bearing solutions to meet any performance demand.
Polymer ball bearings
Lubricant-free protection from chemicals and corrosion
SKF polymer ball bearings offer robust corrosion and chemical resistance with low friction performance. Lightweight with a high strength-to-weight ratio, they are a strong choice when weight is a key design consideration. They can also run without lubricant, making them suitable for a range of hygienic applications.

Benefits
- Resists corrosion and chemicals
- Self-lubricating – no lubricant required
- Highly resistant to wear and fatigue
- Lightweight – 80% less than steel
- Quiet-running with good damping properties
- Electrical insulator
- Low lifecycle costs

Typical applications
- Food and beverage
- Health Care
- Heating and air conditioning
- Chemical and electro-plating
- Pharmaceutical
- Model and lightweight construction
- Material handling and transportation
- Vacuum applications

Miniature stainless steel deep groove ball bearings
Small application solutions for corrosive conditions
If corrosion is a concern and the component is small, consider SKF miniature stainless steel deep groove ball bearings. Like their full-sized counterparts, SKF miniature stainless steel deep groove ball bearings are engineered for reliable performance wherever moisture and corrosive or abrasive materials are present. Available as open, shielded, or sealed types with flanged outer rings, plus metric and inch sizes.

Benefits
- Resistance to corrosion in moist and other corrosive environments
- Sealed versions highly versatile due to different greases
- Suitable for hygienically sensitive areas
- Carry radial and axial loads acting in both directions at high speeds

Typical applications
- Hard disc motors
- Step motors
- Clinical analysis equipment
- CNC milling and welding machines
- Remote-controlled cars, airplanes and helicopters

MRC inch dimension deep groove ball bearings
Imperial sizing for the harshest environments
From HACCP-friendly mounted bearings to special hybrid bearings that resist electrical arcing, MRC products can withstand the world’s harshest operating conditions. Available in inch sizing, MRC deep groove ball bearings can also make sourcing for bearing retrofits and replacements as easy as possible.

Steel balls
A range of sizes and grades, in packaging to meet your needs
Steel balls from SKF are available in select quantities in both small quantity packaging and bulk containers. The new small quantity packages make them easier to stock and transport when your need is for a smaller supply. Balls are available in a various grades of steel, from 2 mm to 100 mm, both in inch and metric sizes.
The Power of Knowledge Engineering
Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management services. A global presence provides SKF customers uniform quality standards and worldwide product availability.