True cost

Maintenance cost
Installation cost
Dismantle cost
Bearing cost
Adaptor sleeve cost
Bearing cost

What you can expect to save for each Cooper bearing installed

The perfect sealing solution for your application

Aluminium triple labyrinth (ATL)

Matched aluminium-bodied triple labyrinth seal for high speed and general applications. Supplied as standard in USA and Canada.

Single lip with spring-loaded retaining plate (SLR)

Suitable for severe splash or completely submerged conditions. The standard version is suitable for up to 2m of fluid, the high pressure version for up to 10m.

The perfect sealing solution for your application

Cooper offers a complete range of seals to ensure long bearing life by meeting the exact needs of a given location and working environment. Here are just four of our seals typically used in mining.

Synthetic rubber single lip (SRS)

Suitable for wet but not submerged conditions. Can be used for improved lubricant retention by mounting lip innermost.

Felt (F)

Standard in UK and Europe for most Cooper bearings in general industrial applications.

Cooper’s contribution to making mining operations run more smoothly has been benefiting customers around the world for many decades. Backed by a considerable R&D spend, its product range has continued to develop in tandem with advances in all forms of extraction and processing. The company’s long-standing relationship with supply chain partners in over thirty countries.

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Underground or surface, Cooper bearings make mining more profitable

Materials handling
In mines throughout the world, Cooper bearings are helping to keep raw, intermediate and refined products flowing smoothly.

Stockpile and surgepile management
Cooper bearings are extensively used in stacker reclaimers because of their long life and ease of maintenance.

Hauling and winding
Wherever haulage gear and winders play a vital part in moving workers and materials safely and reliably from one level to another, you'll find Cooper bearings at work both on main shafts and in gearboxes.

Screening, sizing, washing
Vibrating screens, trommels and ore washers place heavy demands on the mechanisms that keep them in motion. Cooper bearings play a major role in uncomplicated, relentlessly efficient operation.

Ventilation and air movement
Fans and ventilators operate over long periods and often at high speeds to prevent gas build up and regulate temperature. Cooper bearings have proven more than equal to the task across many and varied challenging mining scenarios.

Crushing and milling
The reduction of piece size to give more or less uniform particles can exact a high price in wear and tear. Cooper bearings are to be found in ball mills and crushers across the mining industry.

• A better long-term solution: the Cooper inner race protects the shaft and eliminates journal wear
• Bearing installation is fast and easy no matter how 'trapped' the location
• No shaft realignment is required
• Inspection is simple and fast, sealing planned maintenance and reducing both downtime and 'unexpected' failure
• Small range of operations needed, leading to task and toolbox simplification
• Handling weights are reduced (smaller, lighter pieces), lifting gear is not required for most Cooper sizes. No lifting of nearby equipment is required
• No cooling system is needed, thanks to low friction

Cooper bearings used in mining
Cooper split roller bearings include the 100 Series of high-speed compact bearings, the medium duty 01 Series, heavy duty 02 Series and extra heavy duty 03 Series. In addition there is a rapidly developing range of double-row split tapered bearings. We also offer a heavy duty bearing in an 0D-compliant heavy duty pedestal.

The basis of phenomenal through-life cost savings: Cooper roller bearings are split to the shaft
- Bearing installation is fast and easy no matter how 'trapped' the location
- No shaft realignment is required
- Inspection is simple and fast, sealing planned maintenance and reducing both downtime and 'unexpected' failure
- Smaller range of operations needed, leading to task and toolbox simplification
- Handling weights are reduced (smaller, lighter pieces), lifting gear is not required for most Cooper sizes. No lifting of nearby equipment is required
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The secret of long bearing life: a seal that stays aligned with the shaft, even when the shaft is misaligned
- Full seal integrity even if the shaft moves ± 2.5º
- Reduction of foreign material ingress, even in very dusty environments
- No running-in period needed
- Little lubricant leakage, making lubrication simpler and keeping work surfaces cleaner

Cooper split roller bearing Double row spherical solid bearing

Cooper bearing
Double row spherical solid bearing

100 Series
01 Series
02 Series
03 Series
Tapered bearings

100 Series
01 Series
02 Series
03 Series
Tapered bearings