Easy-to-fit, easy to disassemble: the logic that underpins the cost benefits

Cooper roller bearings are completely split to the shaft, yet designed and engineered to be extremely fast and easy to assemble into robust, reliable units that give exceptional service under the harshest conditions.

True cost

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.

Aluminium triple labyrinth (ATL)

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

Hydrodynamic (H)

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

Synthetic rubber single lip (SRS)

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

Single lip with spring-loaded retaining plate (MLP)

Suitable for severe splash or completely submerged conditions. The standard version is suitable for up to 3m of fluid, the high pressure version for up to 10m.
Underground or surface, Cooper bearings make mining more profitable

Cooper bearings are deployed in the important mining applications shown here, as well as in motors, generators and gearboxes across the industry.

**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.

**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
- No cooling system is needed, thanks to low friction

**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 ± 2.5°
- 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 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 SD-compatible heavy duty pedestal.

Cooper bearings used in mining

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- A better long-term solution: the Cooper inner race protects the shaft and eliminates journal wear

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