

Mounted Solid-Block Spherical Roller Bearings for Rugged Applications



As an industry that stands up to the most demanding circumstances and conditions, the aggregate industry needs unwavering solutions for their conveying needs. When it comes to mounted spherical roller bearings in particular, harsh environments, contamination, shock loading, and abrasion pose quite the challenge in extending life expectancy and avoiding costly downtime and replacements. **In this article, we provide an in-depth look at a product that can face these challenges head-on and leave other mounted spherical roller bearings in the dust.**

Protect Against Harsh Environments & Contamination

With the aggregate industry constantly enduring harsh environments, aggregate equipment requires rugged mounted spherical roller bearings that are as tough as the conditions they face. From dust and dirt to crushed materials to water vapor from oils, heavy contamination also threatens the life span of your spherical roller bearings and potential downtime for your operation.

That's why Timken® has specifically engineered its mounted solid-block spherical roller bearings to handle the toughest application conditions with industry-leading, robust sealing solutions to extend bearing life for your aggregate equipment. Featuring multiple steel housing and locking options with complete multi-point sealing solutions, as well as a range of end covers, these units protect against contamination ingress and optimize your uptime.



Withstand Shock Loading in Abrasive Applications

When conveying moving rock and minerals, the biggest factor that impacts the working life of bearings is abrasion. This requires a higher-level of performance, as abrasive applications are some of the most demanding, as they take on high physical impact caused by heavy, and sometimes sharp, materials.

To combat this stress, Timken's mounted solid-block spherical roller bearings are designed for the aggregate industry with cast steel housings. This plays a significant role, as cast steel outperforms traditional cast iron housing with its ability to withstand high physical impacts and shock loading without cracking or breaking. To further improve your operations and reduce bearing damage and avoid unexpected downtime, you can couple case carburized rollers and inner rings with the mounted solid-block spherical roller bearings for an enhanced solution.

Mounted Spherical Roller Bearings for Aggregate Equipment

As the only mounted spherical roller bearings to offer cast steel solid-block housings as standard, Timken's mounted solid-block spherical roller bearings provide excellent performance for the most challenging circumstances that aggregate equipment is put through. This innovative design was created specifically to strengthen aggregate equipment and provide peace of mind for those who operate and service aggregate plants. Timken's full line of precision-made locking styles and housings offer exceptional protection, especially when paired with advanced primary and secondary seal options, as well as steel auxiliary covers.

These solutions best serve the following aggregate applications:

- Conveyors
- Roll and impact crushers
- Fans and blowers
- Bucket elevators

Timken's mounted solid-block spherical roller bearings can run efficiently on misaligned shafts up to ± 0.75 degrees, without a reduction in life expectancy

Urethane Covers

Ability to fill with grease for an extra barrier of protection to help prevent contamination from reaching the primary seal.



OPEN
Available with triple lip contact seal



CLOSED
Complete enclosure with grease cavity

Turn to Timken for Innovative Mounted Spherical Roller Bearings

With industry-leading, robust mounted and unmounted bearing designs geared to meet the unique needs of the aggregate industry, Timken offers the highest-quality products that increase life expectancy and uptime for aggregate equipment. Their thoughtfully engineered mounted solid-block spherical roller bearings provide uncompromising performance while leveraging the latest material science technology to ensure operational excellence and peace of mind.



IBT Has the Solutions You Need for the Aggregate Industry

At IBT, our dedicated team of experts have extensive application knowledge for the aggregate industry ranging from mechanical components to maintenance technologies and component repair to safety supplies and more! We understand that your operation relies on the most dependable products, innovative solutions, and customer support. That's why we partner with brands we believe in, like Timken, to meet your application's specific requirements.