

velonix

MINING BEARING CATALOG



Most conveyor idler manufacturers use 6200 series deep groove ball bearings when constructing B series idlers, and either 6300 series ball bearings or regreaseable tapered roller bearings when constructing C series idlers. Even though CEMA standards are based on shaft strength and size, idler life expectancy is tied to the bearings. Velonix mining bearings are designed for outstanding field performance and are the #1 choice of reputable idler manufacturers in North and South America.

Velonix bearings provide global industrial, aerospace, and defense customers with unique design solutions to complex problems and an unparalleled level of service, quality and support.

Velonix taper roller and ball bearings dominate the mining industry because of their performance and competitively priced arena.

In today's industrial world, you need solutions that are able to handle the toughest challenges and ready to meet even greater demands. Solutions that work harder, work longer and work safer. Solutions robust enough to cope with challenging conditions and testing environments. Solutions that deliver longer and more consistent periods of uptime to ensure greater productivity and efficiency.

Whether your operation is surface, conventional or longwall mining, your machinery is constantly subjected to some of the harshest environments and torturous loads for which an engineer can design.

We supply bearings that can:

- Handle high loads
- Withstand challenging and extreme conditions

We supply bearings that are:

- Both durable and reliable
- Not going to compromise your productivity and safety



BALL BEARING IDLERS

INDUSTRIES WE SERVE

Our bearings are used in Most Type of Idlers:
•Troughing •Return •Self-Cleaning •Impact •Self-aligning
•And More

MINING

Coal • Iron Ore • Sand & Gravel •
Limestone • Ash • Ore & Copper •
Bauxite • Phosphate • Gypsum •
Gold • Potash • Magnesium •
Molybdenum • Sulfate



Velonix mining bearings are designed specifically for use in belt conveyor idlers.

Our taper roller bearings contain modified geometry which was pioneered by our engineering team.

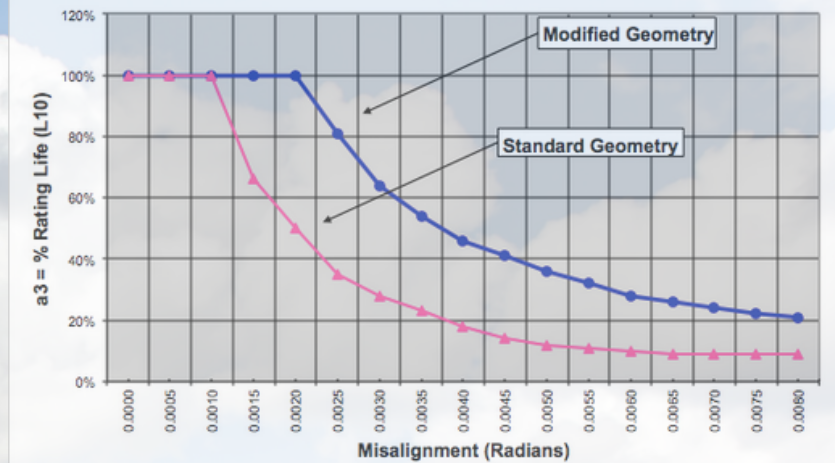
The advantages of modified geometry:

- **MODIFIED GEOMETRY** of inner ring raceway, outer ring raceway and rollers can increase the life of the bearing by 100X, when the bearing is misaligned.
- **SMALL CUP BACK FACE RADIUS** allows the more contact surface between cup and house for a better fit and easier assembly.
- **SMALL CONE BACK FACE RADIUS** allows a better fit on the shaft.
- **LEAD IN CHAMFER ON CONE BORE** prevents any burrs from occurring on the shaft when the bearing is pressed onto the shaft.
- **SMALL CAGE DIAMETER** allows maximum clearance between the cage and housing, which reduces heat in operation.

The main feature of the “X” is the modified geometry of the raceways and rollers. Bearings in conveyor idler rolls are subject to misalignment during operation, which drastically shortens the life of bearings. Modified geometry helps prolong the life under misalignment conditions especially in the CEMA D series.

Our ball bearings provide exceptional tolerance to contamination, higher basic load ratings and larger permissible misalignment due to load. We can use any percentage and type of grease inside the bearings, including low temperature greases.

% Life Vs. Misalignment For Standard and Modified Geometry



OUR TECHNOLOGY REDUCES COST PER TON

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