Top-class conveyor performance with upgraded SKF Three-barrier solution

Harsh conditions demand tough solutions

Conveyor pulleys with open bearings live a tough life, exposed to dirt and high-pressure washdowns. Ingress of dirt and loss of grease lead to insufficient bearing lubrication and indentations in the bearing raceways. The result is frequent conveyor breakdowns and weekly re-greasing. 8 out of 10 conveyors have an availability of less than 87%.

Key benefits:

3x service life

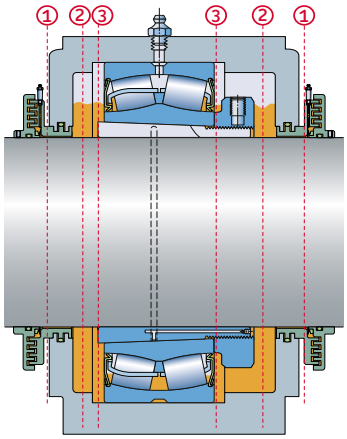
Up to 92% conveyor uptime

Up to 90% less grease

Up to 99.9% if not purged

Upgraded SKF Three-barrier solution

The SKF Three-barrier solution has an average lifetime three times longer than an open bearing. The result is fewer conveyor pulley bearing breakdowns and longer maintenance intervals – delivering up to 92% availability and planned maintenance of conveyor pulley can even be timed with lagging replacement.



Barrier 1
SMS (SKF Mining Specific) housing with SKF Taconite sealing

Barrier 2
SKF LGGB 2 biodegradable grease

Barrier 3
Sealed SKF Explorer spherical roller bearing

The upgraded SKF Three-barrier solution means re-greasing twice a year instead of once a week, saving up to 90% of the time and cost of greasing (up to 99.9% if not purged) and increasing safety for maintenance workers.

Key features and upgrades

The SKF Three-barrier solution is now updated with an SKF Mining Specification variant housing, using the new SKF Taconite sealing with two rings, one stationary and one rotating, forming a narrow labyrinth between the rings. Bolt-on end covers are another new feature.

The upgraded SKF Three-barrier solution is prepared for vibration measurement, allowing smarter monitoring and preventive maintenance.

Compatible with conventional conveyors

Available in a wide range of sizes and fulfilling all relevant ISO standards, the upgraded SKF Three-barrier solution uses the same sizes for housings and bearings as conventional open bearings. The replacement procedure and lead times are identical.

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