

## Bearings for conveyor belt rollers in adverse operating conditions

**R**oller bearings are some of the most important components of support and tensioning rollers in conveyor belts. To enable conveyor belt rollers to operate in extreme conditions such as transporting sand or rock for mining, NKE has developed single-row deep groove ball bearings with optimised performance and longer service life compared with standard bearings, reducing downtime for the entire conveyor system.

The new design from NKE is able to sustain operating demands to which conveyor rollers are exposed even where conventional bearings fail. When contaminants infiltrate the interior of the bearing, standard bearings often suffer from a sudden, uncontrolled rise in temperature. The increased temperature impairs the positive lubricant properties, destroys the steel cages and ultimately causes the bearing to seize up. When bearings seize, they in turn block the rollers, the conveyor belt is damaged, and the risk of fire increases significantly.



Despite relatively high contamination levels in these applications, NKE roller bearings for conveyor belt rollers maintain their function even under heavy loads and without increased frictional torque. When contaminants infiltrate the interior of the bearing, standard bearings often suffer from a sudden, uncontrolled rise in temperature. The increased temperature impairs the positive lubricant properties, destroys the steel cages and ultimately causes the bearing to seize up. When bearings seize, they in turn block the rollers, the conveyor belt is damaged, and the risk of fire increases.

MORE INFORMATION: [www.nke.at](http://www.nke.at)

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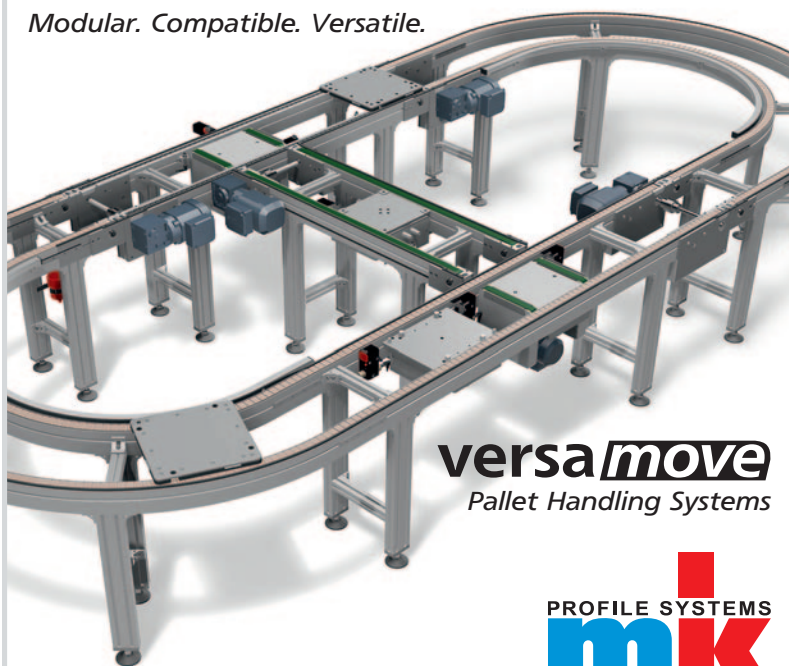
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