

# SUCCESS STORY : TENSION DRUM OF A CONVEYOR

NTN® SNR®

www.ntn-snr.com



With You



## End-user convinced by KIZEI® : Adopted solution that will be fully implemented on all quarry conveyors.

In Poland, a quarrying facility wished to optimize the profitability of its production devices.

*“Service life several times higher of KIZEI® bearings in very dusty environments than an open bearing, has helped **to eliminate unplanned downtime** (failures) and increase the efficiency of the **production line**. Big advantage is that they are mounted in the same way with the **same accessories** (same ISO dimensions). The product deserves a very high rating and we recommend it to other users.”*

More than 90% of quarry conveyors are equipped with open steel cage spherical roller bearings.



*In addition to production downtime for maintenance, a bearing breakage can cause collateral damage (destruction of the housing or shaft...)*



## CUSTOMER REQUIREMENTS AND NTN-SNR RECOMMENDATIONS

End-user has defined that a **production shutdown** due to a bearing failure generates a cost of **€4,000\***.

NTN-SNR recommended KIZEI®, a unique solution in the market provided by its nitrided metal shields and that is also 100% interchangeable with an open solution.

The customer tested our solution on a drum tension conveyor, in a highly polluted area:

- Drop of fine particles « limestone dust »
- Proximity to the ground « humidity / mud »

Open solutions of **main competitors** were showing an **average lifespan of 2 months**.

**Customer expectation with KIZEI®:**  
at least double maintenance intervals



## RESULTS – FAR BEYOND CUSTOMER EXPECTATIONS

- Tests of several KIZEI® references 22212EAKW33ZZ, all of them still running after 10 months, i.e. a.

**> service life multiplied by more than 5**

compared to open steel cage version.

For the moment, End-user expected service life is more than doubled.

- **Grease retention** increased by **3**

	Number of stop/yr	Annual downtime cost	
Former solution (Competition)	6	€24.000	<b>KIZEI® Savings*</b>  <b>€20.000</b>
<b>New KIZEI® solution</b>	1 Maximum	€4.000	

\* Savings estimated on production performance. Savings on Bearing purchase and maintenance operation are not taken into account

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