



TIMKEN® MOUNTED SOLID-BLOCK SPHERICAL ROLLER BEARINGS ELIMINATE REPLACEMENT COSTS

CHALLENGE

The mounted bearings used in sawmill chain conveyors face a number of challenging conditions – including extreme contamination from dirt and sawdust, and shock loading caused by physical impact. For the Sweden-based customer this demanding environment resulted in replacing conveyor bearings every three to four months (at a cost of \$350 per bearing).¹ With maintenance and downtime costs quickly adding up, the customer turned to Timken for a better bearing solution.

TIMKEN SOLUTION

To improve the customer’s conveyor performance, our engineering team recommended a solution designed for the world’s harshest operating conditions: Timken® mounted solid-block spherical roller bearings. A tough cast steel housing helps protect the bearing from shock loads, while our unrivaled multi-point sealing solutions (including a full range of end covers) keep contaminants out for efficient operations. Best of all, this drop-in solution was directly interchangeable with the customer’s existing mounted bearings.

¹ Total cost calculated based on a competitor mounted bearing cost of \$190 and two hours of installation (\$160).

² Savings calculated by multiplying the \$350 bearing cost by five bearing replacements. Comparison costs shown reflect average labor rates and do not include downtime or other component replacement costs.



RESULTS THAT MATTER

After installing Timken mounted solid-block spherical roller bearings, the customer’s chain conveyor system provided more than two years of uninterrupted service. This six-fold increase in bearing life led to a dramatic reduction in both downtime and maintenance costs, resulting in a cost savings of \$2,450 per bearing over a two-year period.² The customer has been so pleased with this improved bearing performance, the company has begun to gradually convert all of its mounted bearings to the Timken brand.

Initial Cost	Replacement Costs (Over 2 Years)						Total Replacement Cost Over 2 Years
Competitor mounted bearing \$190.00 plus \$160.00 (2 Hours Installation) \$350	\$350	\$350	\$350	\$350	\$350	\$350	= \$2,100
Timken mounted solid-block spherical roller bearing \$300.00 plus \$50.00 (30 minutes installation) \$350	\$0	\$0	\$0	\$0	\$0	\$0	= \$0

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.

www.timken.com