



# TIMKEN® SPHERICAL ROLLER BEARINGS WITH W800 MODIFICATION ENHANCE BEARING LIFE, EQUIPMENT QUALITY

## CHALLENGE

In mining process equipment, component durability and reliability are critical. This was a priority for one shaker screen and crusher manufacturer as it launched a new shaker screen design project. To help make the equipment as competitive as possible, the manufacturer sought out the best quality and cost solution for bearings on the equipment's eccentric main shaft. While durability and reliability were essential, the company also wanted product suitable for shaker screen applications from a brand recognized industry-wide for its quality.

## TIMKEN SOLUTION

While the manufacturer typically used a competitor bearing for the position in other shaker screens, it was familiar with the quality of Timken® tapered roller bearings. Timken met with the company. After demonstrating our shaker screen know-how and performing an interchange analysis with the competitor bearing, we recommended outfitting the new equipment with Timken® spherical roller bearings with the W800 modification. Our spherical roller bearings are ideally suited for shaker screen applications because they are manufactured from the finest steel to the highest quality standards. The W800 modification code defines tighter tolerances and reduced radial internal clearance

range, which further enhance the bearings performance under the challenging eccentric loading. Due to the equipment's vibrating condition, we have shown that our spherical roller bearings had a higher dynamic radial rating.

## RESULTS THAT MATTER

The manufacturer appreciated our fast quoting, availability conditions and technical response. The customer received a \$175,000 purchase order to manufacture the equipment outfitted with our spherical roller bearings with the W800 modification.



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.