

# TIMKEN® TYPE E HOUSED UNITS BUCKLE DOWN ON BEARING FAILURE

## CHALLENGE ▼

Unexpected equipment stoppages. Premature bearing failures. Hours of lost productivity.

An aggregate quarry in West Virginia faced these challenges and more in its conveyor systems. Its housed units were only lasting six to nine months in its tougher applications. So the quarry needed a new housed unit solution – one that would be able to excel in harsh operating conditions and reduce unplanned downtime.

## TIMKEN SOLUTION ▼

The maintenance team at the quarry installed two Timken® Type E tapered roller bearing housed units in the positions experiencing the most frequent failures.

These units are designed for rugged applications, featuring:

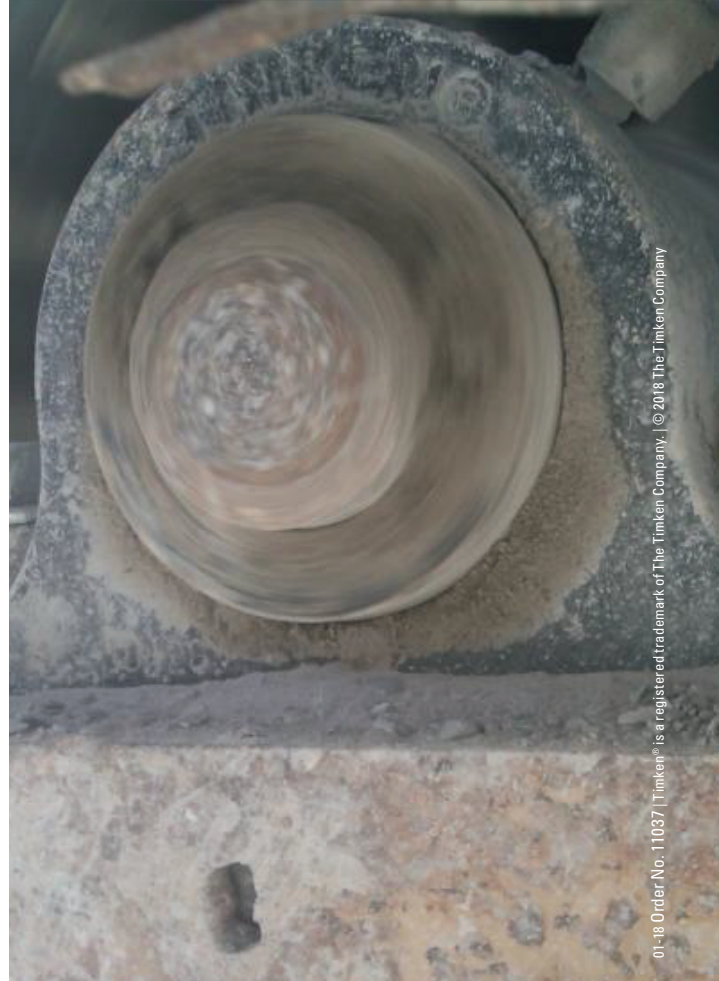
- Optimized bearing profiles and improved surface textures for improved lubrication flow when compared to standard Timken bearings.
- Upgraded triple-barrier internal bearing seal that optimizes lip contact for improved grease retention and significantly reduces contaminant ingress over the seal design of a leading competitor.
- Electro-deposition coating on both the housings and locking collars that helps protect exposed surfaces and provides better corrosion resistance than powder coating used on competing designs.

## RESULTS THAT MATTER ▼

The enhanced feature of Type E housed units help improve the reliability and performance of applications in harsh operating environments – resulting in lower maintenance costs, optimized performance, increased uptime and an overall lower cost of ownership.

After testing the two initial housed units, the quarry switched exclusively to Type E housed units for its entire conveyor lineup. Two other quarries also converted to these units.

This isn't the first time Timken products and services delighted this quarry's personnel. The quarry also uses Timken bearings in its shaker screens and has used Timken's industrial repair services as a lower-cost alternative to buying new bearings.



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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 high-performance mechanical components, including bearings, belts, brakes, clutches, chain, couplings, gears and related mechanical power transmission products and services.

**Stronger. By Design.**

**TIMKEN**