



# ON-SITE EMERGENCY SERVICES IMPROVE PRODUCTIVITY

Timken Case Study for Motion Industries. Steel Plant Predictive Maintenance Program.

## When your rolling mill equipment has an emergency, calling Timken is like calling the paramedics.

Timken recently helped bring a flat-rolled carbon steel producer, back to life after a period of downtime. The customer avoided further costly downtime in its rolling mill operations thanks to an emergency bearing repair and installation of a Timken predictive maintenance program.

Employees of the steel company heard an unusual noise coming from a shaft on a rolling mill stand that was critical to the mill's productivity. With assistance from an on-site Timken representative, the noise was identified as a broken bearing cage, which was a result of high-speed and impact force upon a competitor's two-row tapered bearing.

The bearing, which had been in service since the plant opened 11 years earlier, was removed and inspected, the cage was welded in the six places where it had fractured and the gearbox was re-assembled. Timken also corrected the bearing clearance and made several other modifications to minimize any wear patterns that could occur after the assembly was mounted back in place.



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### CUSTOMER

U.S. steel manufacturer

### MARKET

Metals

### APPLICATION

Steel Mill

### THE TIMKEN ADVANTAGE

Steel manufacturer avoided costly downtime and future maintenance costs by using the following Timken solutions:

- On-site technical consulting and constraint recommendations
- Bearing remanufacture and repair
- StatusCheck™ condition monitoring device



To help avoid future emergency repairs, Timken installed a StatusCheck™ condition monitoring device on the bearing to measure overall vibration. StatusCheck, a unique wireless system designed to detect and monitor excessive levels of vibration and temperature, now alerts the plant's pulpit operator to vibration changes, indicating potential problems in the mill drive train. The results can then be evaluated with Timken's on-site technical team and further diagnostic testing may be required to understand the severity of the situation.



"Timken is an integral part of our overall preventive and predictive maintenance programs and has played a very valuable role in helping us identify potential problems before they actually became problems," comments the company president "I can't say enough good things about the work Timken has done for us, and I look forward to a long association with them."

## RELIABILITY. EFFICIENCY. TIMKEN.

Timken keeps the world turning, with innovative ways to make customers' products run smoother, faster and more efficiently. Our highly engineered bearings, alloy steels and related products and services turn up everywhere. To learn more about how Timken's expertise in friction management and power transmission can maximize your performance.



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