



sensor & control solutions

No one in the industry understands the mechanical link between steel mill machines and sensors like **AMETEK APT**.

The reason is our commitment to get down on the plant floor and solve real problems with an impressive line of standard and special products designed for steel mill applications. No one else in our business can live up to that claim.

- We know what to measure for improved automation and efficiency
- We know where to measure for greatest accuracy and repeatability
- We know when to protect sensors in our unique mill-duty housings for long, maintenance-free life
- We know how to mount and interface our sensor packages for easy, fast, "seamless" installation
- We package our sensors to survive harsh environments

Add to that commitment, our five decades of application experience and state-of-the-art electronics, and you have Resolver- and Linear Displacement Transducer (LDT) packages that will meet the sensor challenges in your steel mill.

In addition to sensors, we also manufacture control products, such as Wagner hydraulic, electric and electro-thrust industrial brakes; replacements for Westinghouse brakes, CATRAC™ mill-duty cable and hose carriers, and liquid level control products — all designed to keep you running at top efficiency.

We can't show you everything in these next few pages. In one mill alone, we have installed more than 300 mill-duty product solutions. So, instead, we'll highlight some of the challenges you face everyday and describe smart sensor and control solutions that are at work in mills worldwide.

application notes

Accurate Transfer Car Monitoring Can Increase Uptime 15%

The Challenge: To find a replacement for lever arm limit switches to monitor transfer car positioning

Traditionally, lever arm positioning devices are used in this application, but they will break off when they make contact with loaded cars, causing downtime and maintenance expense for replacement. Or, when cars jump on the track they can miss the lever arm causing a missed signal, creating potential crash and safety problems. In addition, you are unable to continuously monitor car position, contributing to a loss of process control and flexibility.

The Solution: GEMCO 925 Cable Reel Measuring Systems

This cable reel system eliminates mechanical limit switch failure, replacement, and downtime. Subtle and unpredictable car movement does not affect accurate signal transmission. And continuous monitoring of the transfer car is possible. The cable reel system feeds its position information to a remotely located Programmable Limit Switch (PLS) that duplicated the signal of the lever arm. Installation is easy and interface to a host computer requires no program or logic modification.

We have installed these systems worldwide and increased transfer car uptime by up to 15%.

