ENSURING STEEL QUALITY

Benefits of automated defect detection for hot band carbon steel processing

Automated surface inspection system significantly improves quality monitoring on a steel production line.

AMETEK Surface Vision recently delivered a state-of-the-art defect detection system to Samuel Nelson Steel that provided a reliable, integrated solution to help illustrate which defects are present. Samuel Nelson Steel, a major steel processing company based in Stoney Creek, Ontario, Canada, wanted a solution for monitoring defects on its push-pull pickling line, which is used to process hot band carbon steel.

The company processes steel coils provided by third-party steel suppliers, so it was important to be able to identify incoming defects and their location within each coil. The overall aim was to gain the ability to produce simple, one-page reports for customers summarizing the surface quality for each coil pickled.

Previously, Samuel Nelson Steel monitored quality through visual inspection, depending on its operators to inspect the strip and identify defects. This proved to be time-consuming and only gross defects and issues visible to the human eye were detected. In addition, operators were not able to devote 100% of their time to coil inspection, so defects were naturally missed.

Installation of SmartView® surface inspection system at Samuel Nelson Steel, Stoney Creek, Ontario, Canada.
ABOUT AMETEK SURFACE VISION

AMETEK Surface Vision is a world leader in automated online surface inspection solutions with a broad product portfolio optimized for web and surface inspection and monitoring and process surveillance applications.

Its product portfolio includes two distinct product lines: SmartView® systems and SmartAdvisor® systems. Each product line uniquely enables customers to inspect the surfaces of materials processed in a continuous fashion across the metals, paper, plastics, nonwovens and glass industries. Learn more by visiting ameteksurfacevision.com.

AMETEK Surface Vision is a unit of AMETEK Process and Analytical Instruments, a division of AMETEK, Inc., a global manufacturer of electronic instruments and electromechanical devices with annual sales of approximately $5 billion.

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