

CASE **STUDY**

RECURRENCE OF

**CATASTROPHIC
BREAKDOWNS
AT STEELWORKS
PREVENTED BY
CONDITION-BASED
MONITORING SYSTEM**

CS129



HAYLEY

DEXIS

HAYLEY DEXIS

CONDITION-BASED MONITORING // METALS

Focus on **value**

**TRACK
UP**

KEY VALUE AREAS



INCOME



SERVICES

THE SITUATION

A West Yorkshire-based steelworks had suffered a catastrophic breakdown on their production line. A shot blasting machine had caught fire and the resulting damage was so serious that the machine had to be decommissioned.

The cause was identified to be a hot ember that had attached itself to a piece of steel during the pre-heat stage. Loan equipment was quickly acquired, but damage costs were already estimated to be around £300,000.

THE SOLUTION

HAYLEY 247 DMS DEXIS, a leading provider of condition-based monitoring solutions was contacted for assistance. The customer wanted to avoid such a costly and dangerous event happening again, so HAYLEY 247 DMS DEXIS developed a suitable system that would provide early warning of any possible issues moving forwards. The system, using a thermal scanning device and Machine Guard sensor technology, has been configured to continuously monitor the steel as it moves from the pre-heater

to the shot blast machine. Any irregularities in temperature are reported in real time with the relevant staff notified and the conveyor drive stopped for a manual inspection to take place.

THE RESULT

The solution put in place has since prevented a repeat of the damaging fire from happening on the continuous process line at the plant. On this occasion, the roller conveyor was abruptly halted when a thermal irregularity was detected. Upon inspection, it was found that another hot ember was present on the steel.

“

**THE RISK OF FURTHER
DISRUPTION HAS
BEEN REDUCED
SIGNIFICANTLY, AS WELL
AS POTENTIAL DAMAGE
COSTS OF £300k.**

”

This was promptly removed and the line restarted.

The Operations Director responsible for the running of the site said, “It’s pretty clear to us that this incident was a repeat of the events that lead to the failure of the previous shot blast machine. However, this time we had the benefit of the Machine Guard system. As a result, we not only avoided the inevitable disruption caused by a serious failure, but also potential damage costs of £300,000!”

CONTACT US!

Speak to your local HAYLEY DEXIS branch today!

You can find their details by using our online Branch Finder tool:

www.hayley-group.co.uk/branch-finder.

KEY SOLUTION

Machine Guard.

Thermal scanning technology.

KEY RESULTS

Future production stoppages prevented.

£300,000 in damage costs avoided.

Future machinery hire and replacement costs saved.





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