

# Abrasion protection for coal classifiers with Belzona® 1813

ID: 4121

Industry: Power

Application: SHM-Solids Handling Machinery

Customer Location: Germany North Rhine Westfalia

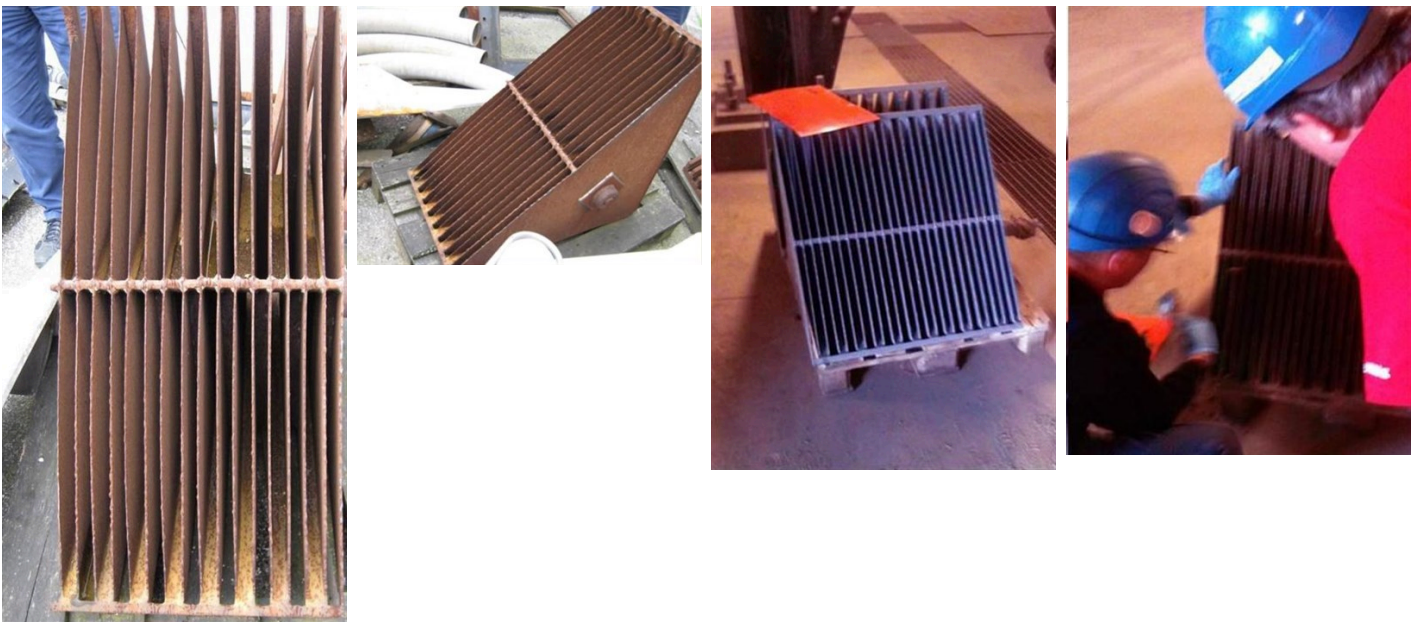
Application Date: August 2011

Substrate: Quenched and tempered C60 steel

Products: \* Belzona® 1813 ,

## Problem

Extensive abrasion and wear



## Photograph Descriptions

- \* View of one of the coal dust classifiers ,
- \* Close-up of a coal classifier showing the wear (top right) ,
- \* Completed surface preparation ,
- \* Application in progress ,

## Application Situation

Coal-fired power station. The coal classifier is installed behind the coal pulverising mills. The pulverised coal is subsequently injected into the boiler furnace via the coal classifier.

## Application Method

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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Initially, an ASR form was completed and reviewed by the technical team. Belzona® 1813 was applied by hand to the classifier edges and plate sides to a depth of approximately 100 mm.

## Belzona Facts

The life of each classifier had been about six months, with service conditions including temperatures of up to 160°C (dry) and a throughput rate of approximately 5000m<sup>3</sup>/h per unit. Following the application of Belzona® 1813 on a trial basis, there were few signs of abrasion on the classifier deflector plates upon inspection 10 months later, in 2012. As a result, the customer plans to coat the old classifiers with Belzona® 1813 to prolong service life and other power stations within the group are investigating the use of this technology.

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