

# BELZONA INCREASES EFFICIENCY OF COOLING WATER PUMPS

ID: 3760

**Industry:** General Industry  
**Application:** CEP-Centrifugal Pumps  
**Substrate:** Cast Iron  
**Products:** \* Belzona® 1311 (Ceramic R-Metal) ,  
\* Belzona® 1341 (Supermetalgilde) ,

**Customer Location:** Steel Mill, Hungary  
**Application Date:** January 2010

## Problem

Traces of cavitation, corrosion damage as well as material loss found on the wetted surfaces of the pump. It was necessary to rebuild and coat the inlet, casing and suction cover with Belzona erosion-corrosion resistant products to restore efficiency.



## Photograph Descriptions

- \* Before application ,
- \* After grit blasting ,
- \* Rebuilt and coated pump ,
- \* Finished application ,

## Application Situation

Pump is used to cool the oxygen jet burners used to re-heat steel alloys in the continuous casting process.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets CEP-1 & 10

## Belzona Facts

After installation the operating parameters of the pump were excellent; the power consumption reduced by 10-12%, from 270-280 amp prior repair to 240-250 amp. The operating pressure increased from the previous 8-8.5 bar to 9-9.5 bar and the flow rate increased from 400 m<sup>3</sup> to 450 m<sup>3</sup>. This means the repaired pumps performance corresponds to the manufacturer's original parameters.

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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manufactured under an ISO  
9000 Registered Quality  
Management System.

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