

# Belzona® Provides Quick and Easy Repair of Vertical Pump Shaft

ID: 8233

Industry: Power

Customer Location: A large scale power plant in Anhui, China

Application: MPT-Mechanical Power Transmission

Application Date: April and November 2013

Substrate: Carbon steel

Products: \* Belzona 1111 (Super Metal) ,  
\* Belzona 9411 (Release Agent) ,

## Problem

Most parts of the vertical water pump shaft sleeve appear over 1 mm abrasion, causing serious vibration during operation, which leads to increase in energy consumption of the electric engine and safety risks. Due to the large abrasion area and its thickness, brush plating and bead welding repair are unavailable.



## Photograph Descriptions

\* 1. Shaft diameter decrease and becomes irregular; 2. Achieve thick thread after cutting; 3. Spline rebuild and repair completed; 4. Processing complete matching the shaft sleeve perfectly ,

## Application Situation

The water pump is manufactured in a Chinese domestic pump factory. The shaft is a vertical circulating water pump spindle with a shaft power of 2034KW and a flow rate of 37620 m<sup>3</sup> / h.

## Application Method

Application carried out in accordance with Belzona Know-How System Leaflet MPT-2

## Belzona Facts

Belzona solution solves the problem in a simple way, eliminated the need for welding and avoided thermal deformation. Since 2013, 9 of the 12 shafts from 4 pumps in this power plant have been repaired, saved customer the high cost of replacing shafts, and these shafts have been in good service since repaired.

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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