

# INJECTION OF BELZONA REPAIRS SHAFT

ID: 1070

Industry: *Power*  
Application: *MPT-Mechanical Power Transmission*

Customer Location: *Hydropower Station, Spain*  
Application Date: *February 2008*

Substrate: *Cast Iron*  
Products: *Belzona® 1321 (Ceramic S Metal)*

## Problem

*After more than 30 years working, the shaft had severe damage and loss of diameter causing water leaks*



## Photograph Descriptions

\* Original shaft damage , \* Heating the shaft with the former already installed , \* Injecting Belzona between the shaft and the former , \* Shaft rebuilt and protected at the same time ,

## Application Situation

2.9 M diameter Butterfly Valve which controls the inlet water to the turbine.

## Application Method

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

## Belzona Facts

Replacement of the shaft would have needed a large part of the installation to be disassembled. With Belzona the customer saved these high costs and has restored shaft with improved corrosion resistance. Use of former enabled shaft to be accurately reformed in-situ.

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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