

# Belzona Rebuilds Kiln Support Roller Shaft

ID: 544

Industry: General Industry  
Application: MPT-Mechanical Power Transmission

Customer Location: Chemical manufacturer (Chromium)  
Application Date: April 2005

Substrate: Steel  
Products: \* Belzona® 1131 (Bearing Metal),

## Problem

*In service the shaft had become worn in the area where the lip seal ran. This allowed oil to leak past the seal resulting in the need for regular oil level checking and refilling as well as a serious slip hazard in the surrounding area.*



## Photograph Descriptions

- \* Worn area of shaft ,
- \* View of surface preparation ,
- \* Completed repair ,
- \* Close up of Belzona® 1131 repair ,

## Application Situation

Worn seal area on kiln support roller shaft.

## Application Method

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet MPT-2. The repair was carried out in position. Only the top cradle was removed so application was carried out in two parts. After rebuilding top half, kiln was rotated 180° to allow lower half to be rebuilt.

## Belzona Facts

The traditional repair would involve replacing the roller with a spare held on-site then refurbishing the removed roller via welding/metal spraying before machining. This incurs serious costs. Shaft is reported to be oil free after five months and therefore considered a success by the client.

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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9000 Registered Quality  
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