

# BELZONA SAVES THIS BULL GEAR FOR A SECOND TIME

ID: 303

Industry: General Industry

Customer Location: Heavy equipment company in Ontario,  
Canada

Application: MPT-Mechanical Power Transmission

Application Date: June 2001

Substrate: Steel

Products: \* Belzona® 1311 (Ceramic R-Metal) ,

## Problem

12-years prior, the assembly was rebuilt with Belzona® 1111 (Super Metal) which needed refurbishment. Excess play in the spline made it difficult for precision movements.



## Photograph Descriptions

- \* Damage bull gear spline ,
- \* Belzona® 1311 (Ceramic R-Metal) applied to socket ,
- \* Lifting gear into position ,
- \* Aligning bull gear onto spline ,

## Application Situation

Bull gear and spline for 100-ton overhead crane.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet MPT-5.

## Belzona Facts

Both the male spline and the female socket of the bull gear were blasted. Belzona® 9411 (Release Agent) was applied to the spline and Belzona® 1311 (Ceramic R-Metal) was applied to both, subse-quently mated, aligned and indexed. There is really no affordable alternative for this 35-year old bull gear. It would have to be custom fabricated, which is both time consuming and costly.

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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