

# Bearing housing repair with Belzona 1111

ID: 9769

Industry: *Steel & Metal Processing*

Customer Location: *Slovakia*

Application: *MPT-Mechanical Power Transmission*

Application Date: *February 2025*

Substrate: *Carbon steel*

Products: *Belzona 1111 (Super Metal)*

## Problem

The customer has very good experience with bearing repairs using Belzona 1111 and mobile machining. He uses this service regularly, without complaints. He also had a damaged bearing housing on his gearbox.



Gearbox with damaged bearing

Treatment of damaged surface prior to application of Belzona 1111

Surface machining after application of Belzona 1111

Bearing after repair ready for reassembly

## Application Situation

After prolonged operation, the bearing housing began to vibrate and lost its prescribed geometry. If it were to continue operating, there was a risk of damage to the entire gearbox.

## Application Method

The gearbox bearing housing was bored using a mobile boring machine with a VHU boring head. The hole was undercut both in front of and behind the central lubrication groove, which served as a reference plane for centering. The undercut was done using a forged thread cutter. The housing was degreased. Belzona 1111 was then applied. After curing, the Belzona was machined to the final dimension with +0.01.

## Belzona Facts

Boring the gearbox bearing housing with a mobile boring machine and using Belzona 1111 resulted in a fast and extremely precise repair, preventing damage to the entire equipment in a short time.

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