

# BELZONA TAKES A GOOD HAMMERING

ID: 4721

**Industry:** Steel & Metal Processing  
**Application:** ENC-Engines and Casings  
**Substrate:** Cast iron  
**Products:** \* Belzona® 1221 (Super E Metal) ,  
\* Belzona® 1321 (Ceramic S-Metal) ,

**Customer Location:** Foundry, Teesside, UK  
**Application Date:** 2013

## Problem

Lower bolster was not held securely due to loose fixing bolts. This led to misaligned die sets as the press hammered out parts. The movement was so severe that nearly 100% of production on this press was considered scrap and the company were considering a very expensive replacement. In addition it was found that the walls of the threads were holed and welding was impossible.



## Photograph Descriptions

- \* 2,500 tonne press in operation ,
- \* Damage to base thread walls ,
- \* Application of Belzona® 1321 to wet out threads ,
- \* All four bolts aligned with jigs whilst material cures ,

## Application Situation

2,500 tonne forging press.

## Application Method

Application was then carried out in accordance with Belzona Know-How System Leaflet ENC-2 using Belzona® 1321 after first repairing holes in side of casting by bonding plates in place with Belzona® 1221.

## Belzona Facts

This emergency job took only 2 hours to complete with material costs of about £330. The press was back in full operation within 2

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
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manufactured under an ISO  
9000 Registered Quality  
Management System.

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days, producing 200 castings an hour, 24/7. The customer has estimated production alone at over £38.4K per day. The repair lasted 112 days but by that time it had secured over £4.3M in production. The customer acknowledged that the cause of failure was not with the Belzona application and have since repeated the repair and stocks material for future repairs.

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