

# BELZONA RESEATS BEARING BUSHES IN STEERING GEAR

ID: 1282

Industry: *Marine*  
Application: *SOS-Ships and Offshore Structures*

Customer Location: *Ship Dockyard, Bulgaria*  
Application Date: *June, 2008*

Substrate: *Cast Iron substrate, Steel flanges and Bronze bush*  
Products: *\* Belzona® 1321 (Ceramic S-Metal),*

## Problem

*Bimetallic corrosion caused wear of bush housing with further damage caused by the increased vibration in the rudder steering system.*



## Photograph Descriptions

- \* General view of the rudder steering system ,
- \* Close view of the worn housing after blasting ,
- \* Reseating of the new bronze bush at the exact position ,
- \* Injection of Belzona® 1321 through injection ports in side flanges completed ,

## Application Situation

Two bronze bearing bushes within the Rudder steering system of cargo ship.

## Application Method

Application procedures were carried out in accordance with Belzona Know-How System Leaflet SOS-9. Prefabricated new bronze bushes and side flanges were resealed in their positions and secured by injection with Belzona® 1321.

## Belzona Facts

Conventional repair by welding and machining to suitable sizes would be very expensive and time consuming. This repair involving bonding different metal substrates with Belzona eliminates galvanic corrosion and is proven to be fast and safe, saving money by reducing docking time.

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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