

# PINTLE REPAIR WITH BELZONA

ID: 840

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

Customer Location: *Ship repair yard, Varna, Bulgaria*  
Application Date: *May, 2007*

Substrate: *Steel*  
Products: *\* Belzona® 1111 (Super Metal) ,*

## Problem

*The keyway was damaged by galvanic corrosion and in certain areas the damage reached 40mm in width. Corrosion pitting was severe, up to 12 mm deep in the tapered housing.*



## Photograph Descriptions

- \* Prepared Surface ,
- \* Application of Belzona to housing ,
- \* Rebuilt keyway and housing surfaces ,
- \* Fitting the Pintle ,

## Application Situation

Pintle housing on cargo ship.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet SOS-3. The keyway channel on the rudder was infilled and a new channel machined at 180°.

## Belzona Facts

Boring was not an option because the diameter was so far gone. Customer had to rebuild up to 2 cm of metal on the taper of the rudder in order to get correct fit. Belzona was more cost effective and faster than traditional methods such as welding and provided galvanic corrosion protection by isolating the dissimilar metals.

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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