# BELZONAS OPTIMIZED BEARING INSTALLATION

ID: 834

Industry: Marine Customer Location: Shipbuilders in Germany and USA

Application: SOS-Ships and Offshore Structures Application Date: Various since 1990

Substrate: Carbon Steel

Products: \* Belzona® 1211 (E-Metal),

\* Belzona® 1321 (Ceramic S-Metal),

#### **Problem**

Conventional methods of installation result in lengthy times for machining of the housings. Corrosion can still occur if stainless steels are used.







## **Photograph Descriptions**

- \* Aft end of containership,
- \* Positioning and sealing of lower annulus,
- \* Injection of Belzona® 1321,
- \* Vent ports installed to ensure void free application ,

### **Application Situation**

Container Ship Rudder Bearings

# **Application Method**

The application was carried out using a modified version of Belzona Know-How System leaflet SOS-4.

## **Belzona Facts**

In this case the synthetic bearing was seated in a steel carrier ring. Bonding with Belzona® 1321 prevents the risk of crevice corrosion and fretting. On this vessel the stainless steel pintle liners are also bonded to prevent galvanic corrosion. Over 30 ships in this class have used this installation method in both Germany and the USA.

For more examples of Belzona Know - How In Action, please visit https://khia.belzona.com

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Belzona products are
FS 695214

ISO 14001:2015

Belzona products are
manufactured under an ISO
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Management System.

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