

BELZONA REPAIRS TRUNNION BALL MILL IN SITU

ID: 4892



PROBLEM

Wear on the trunnion's sealing edge due to ore's abrasion between the rubber ring and the edge. In addition, localized wear on the trunnion's seating area of the socket was present. Trunnion's diameter: 1.200 mm. Operation is at room temperature.

APPLICATION SITUATION

Sliding bearing area of the ball mill's trunnion

APPLICATION METHOD

After removal of oil and residual grease, the surfaces were prepared with electrical sander. The sealing edge was recovered with the application of Belzona 1311 and coated with Belzona 1321 to achieve a polished finishing resistant to abrasion. The seating area of the socket, was repaired with the application of Belzona 1131 (Bearing Metal) to rebuild thickness loss where there is metal to metal contact. The application and finishing were performed manually.

BELZONA FACTS

Belzona technology offered the following advantages: quick return to service, elimination of hot work with electrical welding and low cost.

INDUSTRY

Mining & Quarrying

LOCATION

Mine, MA, Brazil

APPLICATION DATE

February, 2011

PRODUCTS

Belzona 1131 (Bearing Metal) Belzona 1311 (Ceramic R-Metal) Belzona 1321 (Ceramic S-Metal)

SUBSTRATE

Carbon Steel

PHOTOS

Wear on the trunnion's sealing edge
Application of Belzona 1131 on the trunnion
Application of Belzona 1311 on the trunnion's edge
Trunnion's edge coated with Belzona 1321

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