

PRECISION IN-SITU MACHINING

**IN-SITU REPAIR OF PROP SHAFT BEARINGS PRIOR TO SHIP RESALE,
REMOVING THE NEED TO EXTRACT THE SHAFTS**

Before being sold to the Brazilian Navy, the RFA Sir Bedivere was overhauled by A&P Falmouth.

M & A Engineering Ltd was tasked with repairing the port & starboard prop shaft bearings, with the shafts remaining in the ship.

Both Port and Starboard prop shafts have two, aluminium bronze bearing areas. Each bearing was circa $\text{Ø}330 \times 1.5\text{m}$ long. Wear had occurred in the bearing surfaces, so the machining repair was to re-establish true and concentric diameters on each shaft. To remove the shafts from the ship would have required cutting through the hull but M & A Engineering undertook the repair in-situ.



The in-situ repair not only saved considerable expense to the yard, by virtue of the shafts remaining onboard the ship, but also ensured the refit programme remained on schedule.



"The in-situ solution offered and executed by M&A Engineering ensured that the refit programme was completed on schedule"



**Machining
Reference
Bands**



**One of the Four
Journals Nearing
Completion**



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