50 TON DECK CRANE JOURNAL MACHINING

Goltens was engaged to carry out the repair of a 50 ton deck crane while the vessel was drydocked in a regional shipyard.

On-site inspection and NDT were performed in way of the crane boom hinge pins and an In-Situ machining solution was recommended to the ship owner.

Two days later our specialists were on board with our In-Situ shaft milling equipment to perform the job.

Both crane boom hinge pin journals were machined to 10mm undersize in diameter and new bronze bearings were machined to suit the new undersized dimensions of the pins.

After a week, the crane was ready to reinstall the crane boom and load tested.

REPAIRS CONSISTED OF:

- Calibration and NDT performed on both crane boom hinge pins.
- Modification of our equipment to suit space constraints onboard.
- Alignment taken between PORT & STBD hinge pins
- In-situ machining both pins to 10mm undersize in diameter.
- Machined new bushes in our workshop.
- Installation of new bearings on the machined pins.
- Final inspection.

RESULTS:

After one week, the crane boom was reinstalled and the crane was load tested to the satisfaction and in the presence of the ship owner and the attending class surveyor.

PROJECT STATS: DECK CRANE JOURNALS

SWL of deck crane:	**50 tons**
Crane boom hinge pin diameter:	**285 mm**
Machined Length:	**350mm**
Number of hinge pin:	**2 per crane**