

PALFINGER MARINE REFURBISHMENT

PRESERVING THE LIFE OF MARINE CRANES, DAVITS, LIFE- AND RESCUE BOATS

Tio Devaney

INTRO





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PRODUCT LINE



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OFFSHORE CRANES



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MARINE CRANES



04

MARINE WINCHES



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LSA LIFEBOAT PROJECTS

OUR PRODUCT PORTFOLIO









Governmental & Professional Boats



Davits

CRANES

Foldable Knuckle Boom

Stiff Boom

Telescopic Boom

Knuckle Boom

Travelling Cranes

Wind Luffing Crane

Anchor Handling

Fixed Boom

WINCHES

Anchor & Mooring

Anchor Handling & Towing

Lifting & Handling

Storage

Hose Loading Reel

Rental Winches

TRAVELLING GANTRY KNUCKLE BOOM CRANE





PURPOSE:

HANDLE CONTAINERS
ON A PLATFORM SUPPORT VESSEL

SCOPE OF WORK

Replacement of all boggies and bearings from travelling system,

Slip-Ring Intervention and complete Electrical Overhaul, cabling and panel rerouting



DKF 900 – KNUCKLE BOOM SLIP RING ASSEMBLY





PROBLEM:

SLEWING BEARING INTERNAL COMPONENTS WERE CORRODED AND NEEDED REPLACEMENT

SCOPE OF WORK

Slip Ring Assembly

Backlash Adjustment

Load Testing

Achievement... completed in 31 days



DKF 900 – KNUCKLE BOOM PIN AND BEARING REPLACEMENT





FINDING:

ORIGINAL PIN WAS FAILING SCOPE OF WORK

Replace the pin and bearing (pins were removed with hydraulic jacks)

Connect Main Boom and Knuckle boom

Machining

Load testing

Work completed in test and was performed in 20 days



AUXILIARY HOIST WINCH INSTALLED ON A STIFF BOOM CRANE





SCOPE OF WORK

Complete overhaul of an auxiliary hoist winch from a Stiff Boom Crane.

Spares replacement,

Motor refurbishment,

Piping replacement,

Overhauled Brake System, Gearbox Inspection, Structural Repairs and weldings, Electrical Review, Painting and

Dynamic Load Test.



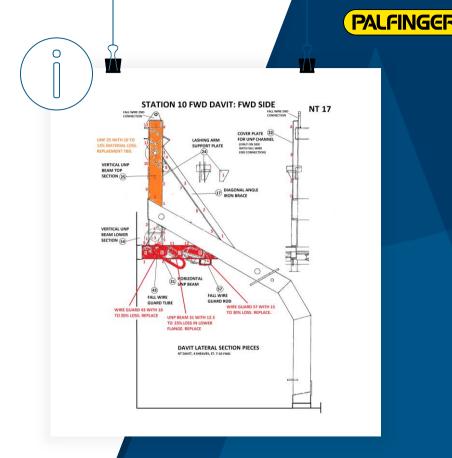
STEEL REPAIRS PRE-INSPECTION

A close-up examination of the LSA by a PALFINGER certified SE

Thickness guaging to identity any structural components both critical and non-critical that are out of tolerance.

Special attention is given to **load bearing components**. Structural plating, beams and other areas where material wastage is observed should be subjected to thickness measurements using non-destructive examination techniques by PALFINGER.

Using the thickness measurements results PALFINGER will recommend a repair procedure.



DETAILED REPAIR PROCEDURE





PALFINGER'S MARINE BUSINESS UNDERTAKES A DETAILED REPAIR PROCEDURE THAT INCLUDES

Detailed drawing package highlighting the areas to be repaired

Approved weld procedures that include the materials specifications, welds details, welders qualification and consumables to be used

Acceptable NDE techniques for checking repairs (welds etc.)

Final testing and inspection protocol

Submission to class on behalf of Operator

EXECUTION OF REPAIRS

PALFINGER may provide equipment necessary for the repairs e.g. Welders, fitters

We will verify that the material provided is acceptable for the repair. E.g. steel plates to be prepared in accordance with approved procedure and inspected prior to welding

The final welds to be subjected to NDE by an appropriately trained PALFINGER SE

All repairs to be in accordance with the approved repair procedure



REFRUBISHMENT AND TESTING OF PK 23500M & PRHE DAVIT









PK 23500M

PRHE DAVIT

RESCUE BOAT GRP REPAIRS









SCOPE OF WORK

Repair GRP HULL structural damage to FRC

Paint the hull following repairs

Work completed at our facility in Macae (PALFINGER GRP workshop)

MAKING YOUR ASSET LOOK LIKE NEW





Team of technicians that can travel worldwide to meet clients manpower need for short dry dock periods

Service include painting, gel coat or polishing depending on client needs

We use top marine grade paint and are experts at color matching techniques







CONTACT





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THANK YOU FOR YOUR ATTENTION!

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