GANTREX TROLLEY RAIL SERVICES

SHORT RAIL INSTALLATION
5 QUAY CRANES

NOVEMBER - DECEMBER 2015
PROJECT BACKGROUND

• Replacement of Short Rails on 5 Ship-to-Shore Cranes
  • Installation of Scaffolding
  • Removal of existing Standard Short Rails, clips and clamps
  • Clean up of stringer top surface
  • Repair stringer bed if needed
  • Install new wear plates, Full Web Short Rails, fixed points, clips and clamps

• All repairs on the 5 STS Cranes were completed in the allocated 5 weeks
All drawings were drafted by Gantrex Technical Department and approved by the Customer prior to material supply and installation.
GANTREX SCAFFOLDING SYSTEM

- Customer had no access to the rail system from the trolley
- Temporary Trolley maintenance baskets were installed by Gantrex to allow for scaffolding installation
GANTREX SCAFFOLDING SYSTEM

- Gantrex installed permanent scaffold clips on the web of the stringer to prepare for scaffold installation
GANTREX SCAFFOLDING SYSTEM

- Gantrex modular scaffolding system was installed for safe access of up to 8m of rail on either side of the boom hinge
INSTALLATION – REMOVAL

- Up to 8m of old rail was removed on either side of boom joint
- Around 2m of ZPMC clips were removed on either side of boom joint
INSTALLATION – CLEAN UP

- Around 2m of Grout, fixed points and ZPMC clips were removed on either side of boom joint
- Stringer top surface was cleaned to bare metal to receive new material
INSTALLATION – BED REPAIR

• Bed repairs were completed as needed
• New Full Web Short Rails, Transition Pieces, ZPMC Clamps, Gantrex Clips and fixed points were installed as per client approved drawings.
**INSTALLATION TIME**

- Average installation time requirement with scaffolding
  - 5 – 6 days per crane
- Increased wear and stringer bed repairs can increase the installation time to 6 – 7 days

- Best installation time achieved by Gantrex
  - 4 days per crane
  - 2006 ZPMC crane with A75 Rail
  - Replaced a total of 20m of rail
  - Minimal stringer bed repairs
  - 3mm of wear on all rails
  - 4 x 2m short rails installed
  - 4 x 3m transition pieces installed
NEED MORE INFORMATION?

For more information please contact your Gantrex Trolley Rail Services Specialist:

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