TOC2006 Asia Workshop Session

What to do with your Panamax Cranes?

Led by Portek Team



What to do with your Panamax Crane?

- Scrap them
- Sell them
- Leave them and use as back up
- Upgrade and Modernise new lease of life

Typical issues with Panamax Cranes

- cranes too low, insufficient lift height, to clear the top tier containers
- insufficient outreach, or backreach
- crane drive obsolescence, reliability issues, safety issues
- crane overall reliability starts to go down, a refurb may be needed

Typical issues with Panamax Cranes

- corrosion sets in, structural integrity
- fatigue cracks starts to appear at greater frequencies
- spreader issues largest single source of breakdown and downtime
- crane run away during operation under high winds
- crane accidents ship hit crane, crane hit ship, crane hit crane, crane sail away under strong winds

Typical issues with Panamax Cranes

- gantry brakes needs special attention
- Hoist and trolley brakes drum vs disc
- boom hinge seized, noisy, etc
- crane relocation, wheel loads, span change
- crane intelligence CMS, Remote CMS

New developments in container cranes

- Dual hoist cranes
- Tandem lift spreaders 2 x 40 or 4 x 20ft containers
- Elevating girder cranes

What to do with your older RTGs

- Insufficient lift height new mostly 1 over
 5 x 9' 6" containers, I.e. 18.2 m
- Cost of fuel escalating. Energy saving RTGs
- DGPS position determination system, auto steer
- Electric RTGs, electric spreaders