STATE OF THE ART AUTOMATIC STACKING CRANES ARRIVE AT NEW PORT IN BRISBANE

Friday 28 June 2013

The $250 million Automation of DP World’s Brisbane container terminal has reached a major milestone with delivery of the first shipment of Automatic Stacking Cranes today.

DP World Australia Managing Director Ganesh Raj said “This major infrastructure project at the Port of Brisbane is in its final phase, with the delivery of four new Automatic Stacking Cranes (ASCs) on site this morning.

“DP World is developing a world class automated terminal comprising of eight modules, which will drive consistent operational performance and boost productivity.

“Over the last 12 months we have been working with leading construction firm York Civil to deliver this project. By developing a new yard area, we’ll be using a combination of automatic stacking cranes that will interact with shuttle carriers to maximise terminal capacity and improve operational efficiency.

“This investment is focussed on the growing needs of DP World’s customers and will see Brisbane’s operating mode adopt the latest in stevedoring technology with Automated Stacking Crane (ASC) operations and Automated Terminal Operating Systems.

“Manufactured at Cargotec’s Shanghai facility, the Kalmar ASCs are fully automated rail mounted gantry cranes that perform container moves within each 300 metre long module. The technology will improve the safety and reliability as well as availability and flexibility to the operation of picking and storing containers.

“Two further shipments of these cranes from Cargotec are due in July and October and will be assembled on site over the next three to six months. Once fully operational, DP World will operate a total of 14 ASCs at the Brisbane terminal.

“The first stage of development will take capacity to approximately 850,000 TEU’s and will become operational by Q4 2013. Further expansion is planned to keep pace with customer demand.”

Port of Brisbane Pty Ltd Chief Executive Officer, Russell Smith, said the DP World automation will result in greater efficiency and increased productivity through the port.

“DP World’s transition to an automated terminal will position the Port of Brisbane as one of the most modern, state-of-the-art ports in the world.”
“We are very supportive of the work DP World is undertaking to streamline the logistics supply chain and enhance trade growth through the port.”

“By 2014, the Port of Brisbane will be the first port in Australia where all three stevedores in operation will have automated container handling equipment.”

Peter McLean Vice President Cargotec Oceania said “Cargotec are proud to be partnering with DP World on this project and are excited to see the successful delivery of this major milestone ahead of schedule.

“The Kalmar ASC+ system maximises performance, regardless of external factors such as weather conditions, with sharply restricted potential for human error. Highly secured operations and fully integrated systems minimise unexpected errors and maximise safety.

“Cargotec has extensive experience with providing state of the art ASC’s alongside their automation and control systems as well as integration for all existing horizontal transport systems and customer TOS,” Mr McLean said.

DP World Australia Contact: Peter Zangari, National Manager Corporate Communication 0409 860 853
Key ASC Facts

- **Modules to be developed**: 8 Modules (7 to be operational initially)
- **Total number of Kalmar ASCs**: 14: 2 ASCs per module
- **Rail Span**: 9 containers wide
- **Stacking Height**: 1 over 5 containers
- **Hoisting speed**: 40 m/min loaded, 70 m/min (empty)
- **Trolley speed**: 60 m/min at rated load
- **Gantry speed**: 270 m/min
- **Safe Working Load**: 40 tonnes
- **Crane Weight**: Approximately 220 tonnes

DP World Brisbane Automation project

DP World is well underway on its largest single capital expenditure to date in Australia with the $250 million expansion of facilities in Brisbane. The company is automating its landside operations and introducing semi-automated technology to its waterside operations by the end of 2013.

Concurrent with the assembly of the ASCs is the implementation of a new SN4 Terminal Operating System, bringing DP World Brisbane into line with DP World’s three other Australian container terminals in Sydney, Fremantle and Melbourne.

DP World is working with Cargotec and other technology leaders including Navis, Camco, 1-Stop, Now Solutions to install the new operating system that will run the operation 24/7.

DP World earlier this year received 14 Manual Shuttle Carriers which will interact between the Quayline and the ASCs.