



“We were very pleased both with the short time it took to complete the previous project and for the resulting uplift in capacity, and that is why we decided to continue with Kalmar with the heightening of ten more RTGs.”

NICOLE JARAMILLO,
TPS RELIABILITY ENGINEER

Reaching higher at the Port of Valparaíso

Heightening twelve Kalmar RTG cranes for Terminal Pacifico Sur Valparaíso S.A. (TPS) at the Port of Valparaíso, Chile, will increase the capacity of the container yard and raise the port's efficiency.

Name Terminal Pacifico Sur Valparaíso S.A. (TPS)

Location Valparaiso, Region V, Chile

Volume
Kalmar fleet

911,000 TEU
RTG cranes, reachstackers,
top lifters and terminal tractors





The challenge

The Port of Valparaíso is one of the busiest in Chile. In 2013, it handled 911,000 TEU. Since 2000, the bulk of cargo moving through Valparaíso has been handled by the private operator Terminal Pacifico Sur Valparaíso (TPS). TPS has invested heavily over the last decade to boost capacity and efficiency as the number of containers moving through Chilean ports has tripled. An added challenge is the current move to ever-larger vessels, as well as competition from newer ports further along the coast, which puts TPS under pressure to meet clients' need to handle more and more cargo on larger ships. The space, however, is limited due to the proximity of the city of Valparaíso and the surrounding hills.

The solution

To meet the challenge, TPS is working on a number of parallel projects. One project will extend the length of the docking area by 120 metres to 740 metres so it can handle up to two Post-Panamax vessels simultaneously. In addition, the company has decided to heighten its twelve Kalmar RTG cranes by 2.9 metres so they can stack up to a maximum of six containers, up from the current five. This will increase storage capacity by 20 percent without any increase in surface area. The first two RTGs were heightened in late 2013 and they were commissioned and operational in January 2014. Following the successful project TPS decided to heighten further 10 RTGs.

The results

"Altogether the expansion and heightening projects will allow TPS to handle an additional 60,000 TEU annually, starting in 2015," says TPS Reliability Engineer **Nicole Jaramillo**. To handle the increased weight of the enlarged structure, Kalmar's engineers advised using larger tyres, which gave the cranes more stability. This and other examples of Kalmar's attention to detail have made the transition to the modified cranes remarkably smooth. "The operators are very happy with the new machines; the larger tyres have made the cranes more stable, while the greater height has not affected productivity," says Jaramillo. "In fact, by some measurements, they are operating faster," she says.

Contact

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Kalmar is the industry forerunner in terminal automation and in energy efficient container handling, with one in four container movements around the globe being handled by a Kalmar solution. Kalmar is part of Cargotec.

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