AURIZON PORT SERVICES

Project overview

Client: Aurizon Port Services
Project: Gladstone Port
Location: Gladstone, QLD, Australia
Date: 2025 - Current
Usage: Container handling using ships crane



The challenge

Gladstone port operations sought to improve efficiency and safety by transitioning away from renting harbour cranes to using shipboard cranes for loading and unloading containers.

However, container handling in windy conditions pose significant risks, requiring workers to manage taglines near moving loads—a dangerous and inefficient process.



The Solution

To address these challenges, Aurizon partnered with Roborigger to deploy the **ARM1500-50 unit**, equipped with external battery packs that enable 24/7 operations.

This advanced load-orienting device features a long-range camera system with a live feed to the crane operator's cabin. Operators can now remotely control load orientation, monitor worker proximity, and even activate an onboard horn—all using a soft remote interface.



The Benefits

The deployment resulted in a dramatic increase in productivity, with container handling rates rising from 5–6 containers per hour to 10–11 containers per hour. Further gains are expected as the crew becomes more proficient with the system.

Most importantly, worker safety was significantly improved. Ground personnel no longer need to be in close proximity to moving loads, as the Roborigger manages orientation and placement remotely. The integration of an automatic spreader further enhances automation, allowing twist locks on containers to be released remotely without manual intervention.

Roborigger also controls containers in windy environments, further increasing safety during the loading and unloading process by actively resisting the unwanted rotation of containers due to wind.



Client feedback

"We see the positive impacts of this technology on our operations, enhancing safety and efficiency of our operations at the Port of Gladstone," said Sam. "This investment reflects our commitment to innovation and excellence in all aspects of our work."

Samuel Leeming – Aurizon Port Services Leader, Gladstone Port