

QUAY REPAIR AT GÄVLE PORT



CUSTOMER: Waterjet Entreprenad AB
STRUCTURE: Port and quay
MISSION: Repair quay with hydrodemolition
ROBOT USED: 557

RECOMMENDED PRODUCTS

For both selective and non-selective concrete removal on quays, Conjet recommend ACR Robot 557 to be used.

PROJECT DESCRIPTION

A quay in the port of Gävle, Sweden needed to be strengthened to ensure leisure boats could dock safely there. More than 300 m of a beam was to be reinforced. Svensk Sjöentreprenad AB awarded Waterjet Entreprenad AB the contract to use hydrodemolition technology to remove the damaged concrete.

the mechanics of hydrodemolition and the use of water, these weaknesses were exposed and handled according to standard procedures. The concrete strength varied from normal to weak, estimated from 25 to 30 MPa.

The operator ran the Conjet ACR-Robot from a safe distance as there was no cable to the pump. Waterjet Entreprenad AB used the patent wireless communication via the Conjet ONE remote control.

THE SOLUTION

Phase one of the project included repairs to 100 m of the pier and phase two was the remaining 200 m. The plan was to remove 100 mm of concrete from the top of the 700 mm wide beam and recast for added strength.

RESULTS

The project was completed on-time and on-budget. Conjet ACR-robot operated safely and efficiently along the pier's uneven surface and the operator was satisfied how easy it was to handle the robot and boom system.

HOW IT WORKS

A Conjet ACR-robot was used together with a Conjet silenced pump since the work was carried out in an urban area. The 557-robot was chosen because it could easily follow the uneven area next to the quay as that was of utmost importance when the top of the quay was too narrow for the robot to operate on. The flexibility and stability of the 557-robot made it easy and safe for the operator to carry out the repairs.

During the hydrodemolition phase a few deep pockets were revealed in the concrete. Thanks to



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