

Extension of Port of Skagen – Phase II

Deeper port opens up for bigger ships



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Per Aarsleff A/S has previously extended Port of Skagen by constructing a 950-metre-long breakwater for establishing a larger area for industrial use, as Port of Skagen could not keep up with the demand. Aarsleff and our subsidiary VG Entreprenør A/S have carried out Phase 2 in a joint venture. The port is now able to receive bigger ships which opens up for even more business opportunities.

Comprehensive dredging

Before the extension, Port of Skagen could not receive ships with a draught of more than nine metres, which prevented the port from servicing large cargo ships and cruise ships. This was the main reason that the client wanted to extend the port. The primary part of the project was to extend the draught to 12 metres – a dredging of 600,000 cubic metres.

The project started with construction of 1,300 metres of outer breakwaters consisting of stone piers, and as a side benefit it provid-

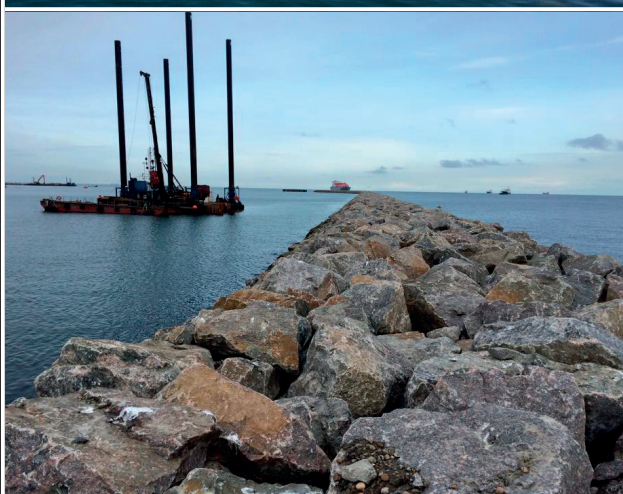
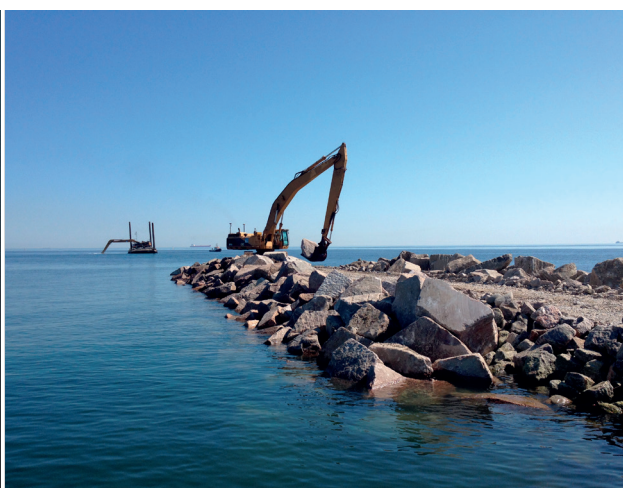
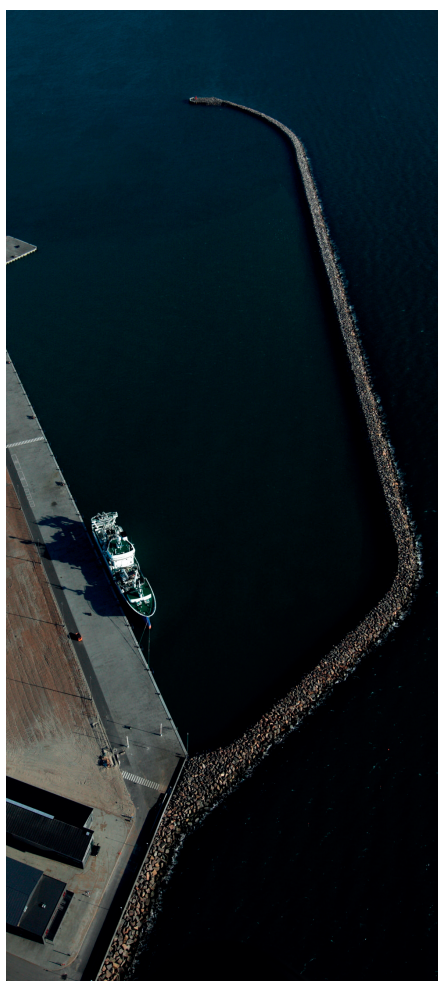
ed shelter from the wind for the subsequent work consisting of driving and anchoring of the sheet pile wall. Then followed the establishment of a 600-metre-long quay wall as well as pipes and paving work behind the quay. The comprehensive dredging was carried out continuously during the project adjusted to the execution of the other work.

Construction in the sea

The extension of Port of Skagen was a special job, mainly because the construction was carried out on the outside of the existing port. In other words, we built directly into the sea, so our work was influenced by wind and weather conditions. In spite of this, the project progressed very well, as we were flexible in the process and were able to adjust the design and execution according to the conditions. We also drew on the expertise of the specialists in the Aarsleff department Design & Engineering.



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Data

- 600 m of quay prepared for a water depth of 12.5 m
- 1,300 m of outer breakwaters in the form of stone piers
- 20,000 m² of quay road with paving stone
- 1 vertical pier head
- 600,000 m³ of dredging
- 2,000 m of pipes up to DN400 mm.

Client

Port of Skagen

Contractor

Aarsleff-VG J.V. I/S

Cooperation partner

Rohde Nielsen A/S

Type of contract

Design and build

Consulting engineer

Sweco

Construction period

July 2013-June 2015

Contract value

DKK 250 million

Contact

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ANLÆG-215UK-rev.1 01/2017