



Siemens Wind Factory, Cuxhaven

Data and facts

Company

Type	Foundations
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Runtime	03.2016 - 06.2016
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Principal	Siemens AG
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[Project report online](#)

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Construction of a Factory for Offshore Wind Turbines

With the KBM 02 machine alone FRANKI produced 1,056 Simplex piles of up to 25 metres long and with diameters of 46, 51, and 61 centimetres. The consortium partner produced the remaining piles with two machines. Inclined piles, which required significantly more time, were the primary concern here. In total the consortium installed 520 tonnes of reinforcing steel and 12,000 cubic metres of pile concrete.

Crucial for the acceptance of the bid were three preliminary proof loads with up to 9,500 kN pressure as well as the help of the isg in the processing of the bid: of the initially planned quantity of piles, the bidding consortium was ultimately able to remove 140 piles without replacement and reduce the diameters of numerous other piles from 51 to 46 centimetres.

The deep foundation was necessary on account of the soft ground of the spoil area: in the tide-influenced area there is a soft clay layer of varying thickness. Underneath is medium-density tidal sand which in turn rests on solid ground. The surface of the construction site is formed of sedimentary sand. Pile driving began after the end of the soil conditioning in the beginning of March 2016. The consortium completed the work on time. The total construction period took twelve weeks.

Impressions



Image notes

1

Siemens Wind Factory

The deep foundation is necessary on account of the soft ground of the spoil area.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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