

**Specifications:**

- ✓ Model based engineering
- ✓ Simulation
- ✓ Fast commissioning time

Highwind

Highwind – Boom lock - 2015

Higher safety and lower costs for the installation of wind turbines at sea. Boom Lock© can hoist safely in winds up to 15 m/s, which is a radical improvement compared to 10 m/s using a conventional offshore crane.

In commission of High Wind NV Bakker Sliedrecht took care of the engineering and automation of the electric part of the revolutionary Boom Lock©. Boom Lock© is a system that is mounted on an offshore crane. It is designed to reduce unwanted movement of the crane hook and the payload in such a way that installation time can be drastically reduced. Boom Lock© can hoist safely in winds up to 15 m/s, which is a radical improvement compared to 10 m/s using a conventional offshore crane.

The use of Boom Lock© increases safety during the installation of the wind turbines as the heavy payloads' uncontrolled movements in windy conditions are reduced. This results both in considerable cost savings and under the form of reduced cost for installation vessels, installation crews and related costs, as well as increased income due to earlier completion of the wind farms.

In 2014 High Wind developed a physical and realistic simulation model of the offshore crane, Boom Lock© and hoist operation in close collaboration with Controllab. Bakker Sliedrecht used the same model to develop and test the automation.

The successful collaboration between High Wind, Controllab and Bakker Sliedrecht enabled a quick delivery time on both engineering and automation. Bakker Sliedrecht started the project in September 2014 and the first system was commissioned in January 2015 by making use of the Model Based Engineering method.



Do you have any questions?

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We take care of it.