



## Jan de Nul Group

Willem van Rubroek – Cutter suction dredger - 2016

### Scope of delivery:

- ✓ 2 inboard pump drive systems of 8500 kW
- ✓ Submerged pump drive system of 8500 kW
- ✓ Cutter/propulsion drive system of 8500 kW
- ✓ 4 additional drive systems

Bakker Sliedrecht is working on the drive systems and auxiliary switchboards for the cutter suction dredger, Willem van Rubroek, that is being built for Jan De Nul Group. Bakker Sliedrecht has been involved in this project from the very beginning, brainstorming with Jan De Nul Group about electrical configurations.

### Powerful cutter suction dredger

Willem van Rubroek is being equipped with very powerful drive systems of 8.500 kW. This makes the new vessel significantly stronger than existing cutter suction dredgers. The powerful drive system crushes rock faster, increasing production.

### High voltage drive systems

Bakker Sliedrecht is engineering, delivering and commissioning four high voltage drive systems for Willem van Rubroek:

- 2 inboard pump drive systems of 8500 kW
- Submerged pump drive system of 8500 kW
- Cutter/propulsion drive system of 8500 kW

One drive system will power both the cutter and the propulsion since both applications are never used at the same time, thus saving space on board.

### Reliability

A high reliability of the inboard pump drive systems is very important to Jan De Nul Group. Therefore, Bakker Sliedrecht is installing redundant inboard pump drive systems. To ensure the reliability of the drive systems, Bakker Sliedrecht is delivering a spare part package of critical components.

### Four additional drive systems

Four additional drive systems are being built by Bakker Sliedrecht to power all winches, pumps, and other auxiliaries. The scope also consists of multiple water-jacket-cooled electric motors; they will all undergo a heat run test before installation, also to increase reliability. Both the high voltage and low voltage systems are being built to resist the vessel's heavy vibrations by using heavy duty vibration.



Do you have any questions?

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