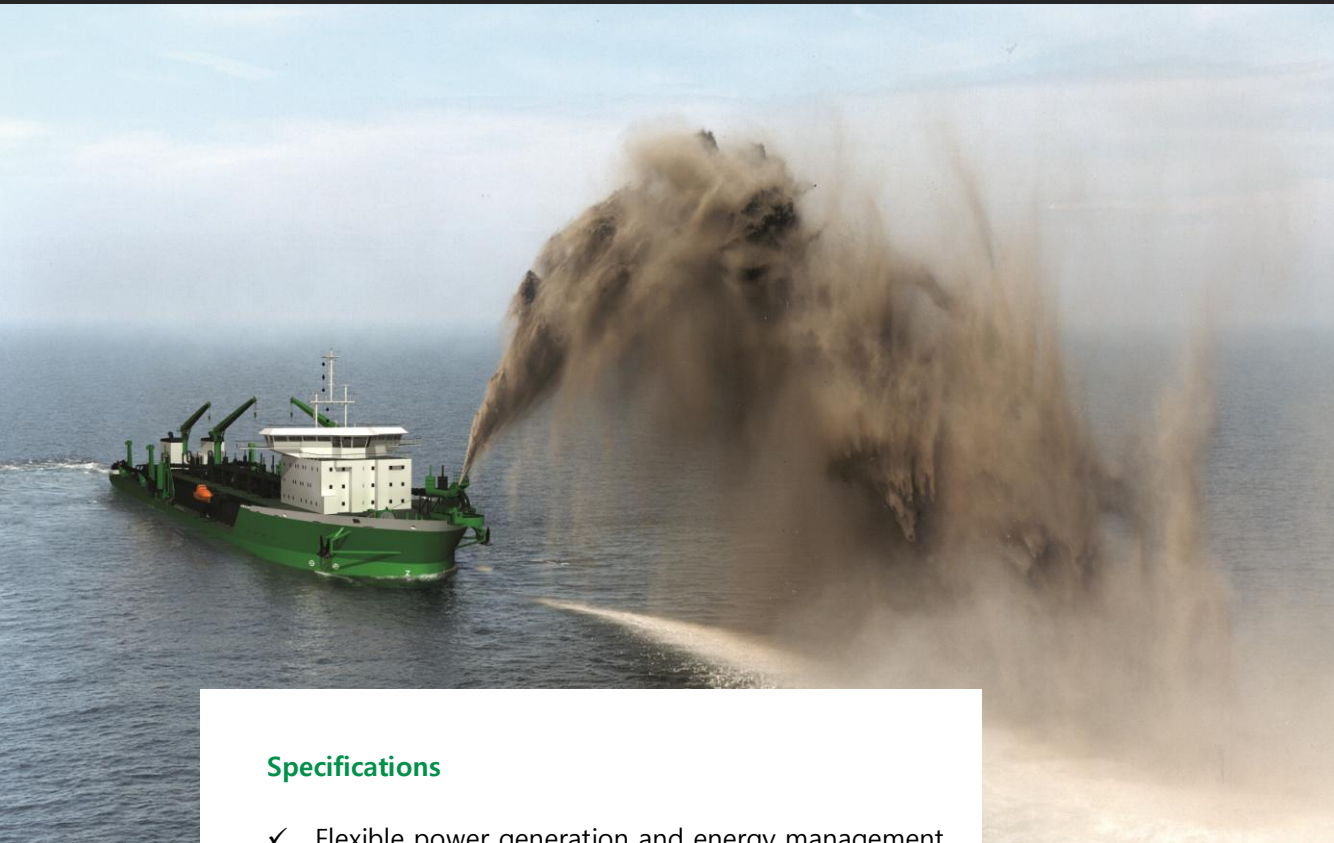


DEME

Congo River Mega hopper dredger

This mega hopper dredger has a flexible power generation and energy management system.



Specifications

- ✓ Flexible power generation and energy management system
- ✓ Active Front End rectifiers

This mega hopper has a flexible power generation and energy management system, which makes it possible to transfer electric power from the portside PTO generator 3,400 kW to the starboard PTO generator 3,400 kW and vice versa.

The electric power transfer is enabled by means of a DC bus system with AFE rectifiers, which also powers the jet pumps 1,000 kW and bow thrusters. Another feature of this energy board net system is the floating frequency between 44/50 - 60 Hz.

Bakker Sliedrecht was challenged to deliver electrical components that are compatible with this floating board net frequency and create the electrical design.