



Hopper Dredger

Balder R

Balder R is a diesel-electric hybrid split hopper suction dredger, probably the biggest and most versatile of its kind, capable of dredging on depths of 70m. The Blue diesel electrical system, Drive Plus C system, full LED lighting system, selective catalyst reduction (SCR), diesel particulate filters (DPF), and engines that are prepared to run on the most climate responsible fuels, ensure minimal emissions and the most environmentally sustainable operation. This both fulfils and exceeds the latest regulatory and industry standards, such as the European Emission Standard Stage V, and thus Balder R has received the BV notation, recognizing the performance of an ultra-low emission vessel (ULEV). Furthermore, Balder R is certified with both a Green Passport and Cleanship super notation. Schottel azimuth propulsion 360 degree steerable and with two bow thrusters giving maximum maneuverability. A highly advanced Dynamic Positioning (DP2) system enables extremely precise manoeuvrability.

The load can be discharged quickly by splitting, which is faster than all other means of discharging. When placing a load of sand

for nearshore nourishment, this can be done very precisely and with high compaction by split discharging, which is a method that is required more and more. Alternatively, the hopper load can be discharged into a trench through the suction pipe, over the bow through rainbowing approximately 150m, or through the bow connection to a pipeline of approximately 4km.

The vessel is state-of-the-art, specially designed for operation in shallow waters as well as offshore. In order to optimize capital dredging, as well as maintenance dredging, a split hopper dredger with two dredge pipes is often compulsory. The vessel is equipped as two dredgers in one, with double loading and discharge pumping systems, which can work in parallel or in series. With onboard crane facilities and fully equipped workshops, standing time is minimised, which is vital when working worldwide and in areas where land support facilities are often not available. With very high efficiency, relatively low energy consumption, and a very high number of workable days, the vessel will outperform the competition.

Specifications

IMO	9578232	Dredging depth	35/62m
Call sign	OYPF2	Main engine	4x2,525kW
MMSI	219298000	Bow thruster	2x450kW
Gross Tonnage	5,189GT	Pump ashore power	2x3,360kW
LOA	111.30m	Total power installed	11,075kW
Breadth	19.40m	Speed empty	15kn
Hopper capacity	6,000m ³	Speed loaded	14kn
Draught loaded	7.00m	Flag	Danish
Draught unloaded	3.80m	Class	Bureau Veritas

Nordic mythology

Balder is the son of Odin and Frigg. He is considered the god of innocence, light, joy, spring, and beauty. All beings and things have vowed not to harm him, however Loke still finds a way to have him killed.

