



Hopper Dredger

Njord R

Njord R is a diesel-electric hybrid split trailing suction hopper dredger, possibly the biggest and most versatile of its kind, capable of dredging down to 62m. The Blue diesel-electric 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. Thus, Njord R has received the BV notation, recognising the performance of an ultra-low emission vessel (ULEV). Furthermore, Njord R is certified with both a Green Passport and Cleanship super notation. Schottel azimuth propulsion units with 360° steerability and with two bow thrusters giving maximum manoeuvrability. A highly advanced Dynamic Positioning (DP2) system enables extremely precise manoeuvrability.

Njord R features four advanced hopper discharge methods tailored for a wide range of dredging operations. Splitting enables immediate disposal with high accuracy and minimal environmental impact. Rainbowing allows material placement

on beaches or in shallow waters up to 150 metres ahead where vessel access is limited. Pump ashore enables long-distance transfer through pipelines to onshore or shallow-water locations. Backfill (reverse dredging) ensures controlled seabed placement, making it ideal for trench backfilling and capping of contaminated areas.

The vessel also excels in Mass Flow Excavation (MFE), enabling precise subsea cable lowering and seabed embedding, supported by a proven operational track record.

The vessel is state-of-the-art, specially designed for operation in shallow waters as well as offshore, and is capable of surveying with its integrated Reson Multi-beam system. In order to optimise 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	9588122	Dredging depth	62.0m
Call sign	OYOZ2	Main engine	4x2,525kW
MMSI	219387000	Bow thruster	2x450kW
Gross tonnage	5,189GT	Pump ashore power	2x3,400kW
LOA	111.3m	Total power installed	10,565kW
Breadth	19.4m	Speed ballast	13.5kn
Hopper capacity	6,000m ³	Speed loaded	12.0kn
Draught loaded	7.5m	Flag	Danish
Draught unloaded	5.4m	Class	Bureau Veritas

Nordic mythology

Njord is the brother of Frigg. He is the God of the sea, weather, wind, and fire, and therefore very close to the fishermen and seafarers.

