

Dimensions

Length overall 91.00m Load line length 84.95m Breadth 24.50m 4.200m³ Hopper capacity Draught international freeboard 4.50m Draught dredging mark 5.50m Deadweight 6,400 tons Hopper capacity 6,300 tons Vessel speed loaded 11 knots Accommodation 12 people

Dredge installation

Dredging depth30mDiameter suction pipe1x 600mmSubmersible dredge pumpIHC HRLD 105-26-60Onboard dredge pumpIHC HRMD 126-26-60Impeller dredge pumpCurve® technology

Capacity

Fuel cells 3,600kW 1,800kWh Battery system Back-up generator set 550kW Emergency generator set 65kW 1x 350kW Bow thruster Submersible dredge pump 1x 600kW 1x 1,600kW Onboard dredge pump 2x 210kW Jet pumps

Electrical installation

Voltage main system 1kV DC Voltage auxiliary systems 400V AC, 50 Hz

Classification

Bureau Veritas I, & Hull & Mach, Hopper Dredger - Unrestricted Navigation, & AUT-UMS

Features

- fully powered by hydrogen and fuel cells
- storage of liquid hydrogen in double-walled vacuum insulated tanks (type-C)
- zero emission operation, no CO_2 and NO_x emissions
- multifunctional deployment on foreshore, beach replenishment and fairway maintenance
- focused on low energy consumption by a.o. the combination of a large carrying capacity, limited sailing speeds, dump capability at limited draught, submersible dredge pump, efficient propulsion systems, hull optimisation and automation.