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NEW BUILD - 1200m3 Trailing Suction Split Hopper Dredger



Listing ID - 493482

Description	NEW BUILD - 1200m3 Trailing Suction Split Hopper Dredger
Date Launched	BUILT TO ORDER
Length	72.70m
Beam	12.90m
Draft	4.50m
Location	Spain
Broker	John Kearns john.kearns@seaboatsbrokers.com +64 21 400 805
Price	POA

General Description

Type: Split hopper Dredger

Builder: Nodosa Shipyard, Spain

Class: GL; Class + 100 A5, RSA (50) Split hopper dredger + Hull + MC; Group III Class T

Flag: Spanish

LOA: 72.70m

Length PP: 64.30m

Beam: 12.90m

Depth: 4.50m

Draught: 4.10m

Gross Tonnage: 1138 GT

Net Registered Tonnage: 341 GT

Propeller-Generating Plant

Main Engine: CAT C32: 2x735, 3kW (1472kW; 2000 Hp; 1800rpm)

Propeller: 2x Azimut Schottel SRP550FP

Auxiliary Engine: CAT 3406: 2x 349Hp 1500rpm

Alternator: LEROY SOMER 2x306Kva, 400V-50Hz

Emergency Group: CAT C4.4: 86Kva, 400V-50Hz

Deck Machinery

Slide Crane: Liebherr 984; 504kW excavation 8-16m (Owner Supplied)

Deck Crane: Guerra M330 24A4; 2075 Kg to 12.1m radio

Winches: 2 Ibercisa Hydraulic Combined Anchor/Mooring Winch Model Man-H/32 – S/250 -80/1; 2

Ibercisa Hydraulic Mooring Winch Model Man – H/40/250-80/1

Radial Davit Rescue Boat: Ferri, Series 1872, TN 3919, Type:0,9 Tn to 4.4m

Efficiency and Capabilities

Free load speed: 10.5 knots

Full Load Displacement (d=4.1m): 3085t

Hopper Volume: 1200m³

Fresh Water: 35m³

Oil: 16.5m³

Fuel (GO): 204m³

Ballast: 450m³

Other tanks: 25m³

Accommodation: Sheltered water 4p, Coastal Navigation 8p

Handling and Manoeuvring

Rudder: 2x Azimut Schottel SRP550FP

Bow Thruster: 200kW (Hydraulic) Pump Linde HPV-02E1

Other Equipment's

Dredging Equipment

Damen type SLZ 500

Dredge pump type BP 5045; CAT C32, 1300Hp. Gear Reintjes WAF-542 3,95:1

1 Jetwater pump NIJHUIS-200400; CAT C18, 620hp, 1800rpm

Swell Compensator System

3 winches: Slide Flange, Intermediate winch, Drag head with grooved drum

Valves: 5x HRA500, 5xHRA400

2 telescopic Overflows

2 Jetwater Monitors type WK200

1 Bow coupling

1 Rainbow nozzle

Hydraulic Installation: 7 Hydraulic groups (5x75hp, 1x40hp, 1x10hp) Hydraulic Pumps Denison, Sauer, Sunfab. Valves Danfoss

Navigation / Communication: Navigation Area A3

Vessel Description

The vessel is a self-propelled split hopper dredge. It has two independent hulls that open to drop its load of spoil and deposit it at the agreed place on the sea bottom. The hopper has a capacity of 1200 m³. This ship is equipped to perform various operations of maritime works, especially designed for dredging up by suction pump, although it also can dredge with a backhoe which is located on a rolling gantry hosted on top of the hopper. Of course, it can be used simply to transport dredging products... For all these reasons its versatility is more than demonstrated.

Dredging activity is mainly performed by suction pump, and can dredge up to a maximum depth of 30 meters. This pump can fill the hopper with sand in 1.5 hours, which enables a quick turnaround. It can also dredge mud, in which case the team is able to fill the hopper with a concentration of mud up to 80%.

The dredge master has a comprehensive system of control over dredging for more efficient and productive work. Such a system includes dredging, production meter tube position indicator, indicators of pressure after the pump dredging and vacuum in the suction of the pump, pump speed, velocity of the liquid in the pipe and concentration of spoil, etc.

The downloading of the material may be carried out in two ways:

- The opening of the split hopper, in free fall, either instant or controlled.
- Rainbowing utilising pump off the bow of the ship, and/or by pumping ashore via floating pipe, in which case the ship can pump ashore up to a distance of 750 meters.

For propulsion the dredger has two CATERPILLAR diesel engines, each coupled to SCHOTTEL azimuth thrusters, with 360° rotation. This gives the ship excellent manoeuvrability, which is increased with the help of a lateral Bowthruster, thus, the vessel can be turned within its own length. When empty, the dredger reaches a speed of about 10.5 knots, and meets all the regulations in Spain as a ship in the III Group, T Class, so it is equipped with the corresponding services and is capable of moving from a port to another with an average of 3500 nautical miles of autonomy. In addition to dredging, the ship is versatile and designed to perform other maritime works, such as the transport of products derived from the normal activity of dredging, or jetties, aggregates, etc. Also the vessel can perform dredging with a Backhoe, which is on a sliding gantry mounted on top of the hopper, with two areas for stowage of the machine at each end of the hopper.

The ship is subject to SOLAS rules, and is classified by GERMANISCHER LLOYD, ' Class 100A5, RSA (50), Split Hopper Dredger, ' Hull, (') MC.

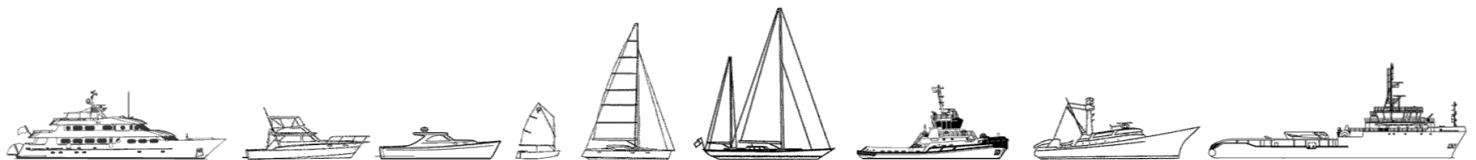
Dimensions and technical characteristics of this vessel, which has been designed and developed with close collaboration between the technical offices of the shipyard and F. CARCELLER, are summarized on the Technical Data of the ship which is available from Seaboats.

POA





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