Trailing Suction Hopper Dredger

DATA SHEET  TSHD 5000

**General**

Basic function: Trailing suction hopper dredger

Classification: GL / BV or equal

**Main particulars**

Length over all: 91.3 m
Length betw. Perp.: 79 m
Breadth, moulded: 21 m
Draught, dredge mark: 7.2 m
Deadweight, dredging: 7.900 ton
Hopper capacity: 5,000 m³
Accommodation: 14 Persons

**Options:**
- Suction pipe extension 27m Dd
- Degassing installation
- Additional loading box,
- Adjustable overflow,
- Light mixture,
- Jet water medium or high pressure,
- Active drag head
- Swell compensator
- Bow coupling / nozzle, self emptying channel,
- DP zero
- DCMS automation
- Cradle for spares
- Live boat
- Bow thruster
- Additional cranes; deck, engine/pump room
- Workshops,
- Additional accommodation
- Green passport,
- HFO-380cSt
- Tropical condition
- Cradle for spares
- Walkway below deck
- Water ballast treatment

**Dredging Components**

Trailing suction pipe: DN800 mm
Dredging depth: 22 m
Overflow weir
Loading boxes
Dredge pumps: VL 900
Unloading system: 4x double doors

**Deck and safety**

Anchors & Mooring equip.
Auxiliary crane: 0.98 ton
Maintenance crane: 14 ton

**Electric System**

Main generators: 875 ekW
Control and monitoring system

**Machinery**

Main diesel engines: 2x 1,590 kW
Auxiliary diesel gen. set: 425 ekW

The VOSTA LMG designs range from the cutter suction dredgers and trailing suction hopper dredgers to the custom built cutter dredgers and custom build trailing suction hopper dredgers. The design are based on the latest design philosophies. Formed by of practical experience with dredgers of different international and thorough knowledge of technological development. The hopper dredgers in several capacities are well equipped to operate in a wide range of coastal zones dredging several materials. The hopper range is specifically designed for maintenance and land reclamation work in deep as well shallow water areas. The dredgers payload is optimized for transport a high amount of dredged material.

**Main features:**
- Low price per cubic meter at a wide range of jobs
- Shallow water operation and speed in shallow water optimized
- Bulbous bow with low resistance and low wave generation in shallow water.
- Low vibration levels
- Compact vessel with optimal maneuverability
- High payload
- High efficiency dredge pump
- Approved dredge control and monitoring system
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