TRAILING SUCTION HOPPER DREDGER 5000
Damen TSHD series

GENERAL
Basic functions: Trailing suction dredging
Classification society: Bureau Veritas
Notation: I, *Hull, *Mach, Hopper Dredger, unrestricted navigation – dredging within 15 miles from shore or within 20 miles from port, AUT-UMS, COMP-NOISE 3, GREEN PASSPORT

DIMENSIONS
Length o.a. (excl bow coupling) 91.50 m
Length b.p.p. 84.95 m
Beam moulded 21.0 m
Depth moulded 8.80 m
 Draught (summer) 6.00 m
 Draught (dredging) 6.90 m
 Deadweight (dredging) 8,300 t
 Hopper volume (top overflow) 5,000 m³

TANK CAPACITIES
Fuel oil (service) 460 m³
Potable water (service) 45 m³
Sewage 20 m³
Urea 32 m³

PERFORMANCES
Speed (dredging draught) 12.2 kn
Dredging depth 30 m
Rainbow distance 40 m (option)
Discharge distance 1,600 m (option)

MAIN MACHINERY
Total installed diesel power 4,980 kW (3 pcs)
Main engines
PS: 2,200 kW @ 1,800 RPM
SB: 2,200 kW @ 1,800 RPM
Propellers
2x 1,750 kW
2x 2,500 mm, CPP, in nozzle
1x electrical driven, transverse tunnel thruster, 500 kW
Bow thruster
1x self-emptying system with bow coupling
1x additional booster station installed on board
1x fixed separate rainbow nozzle
1x degassing installation
1x additional tier of superstructure to max crew of 21 persons
1x 16.0 t @ 16.5 m
1x non-nuclear production meter

ELECTRICAL SYSTEM
Networks 690V/400V/230V @ 50 Hz
Generator 1x 680 kVA
Auxiliary generator set 1x 470 kVA
Emergency generator set 1x 110 kVA

DECK EQUIPMENT
Anchor winch 2x hydraulic driven
Capstan 2x hydraulic driven, 8t pull
Davit 1x combined stores and life raft davit
1x combined rescue boat and life raft davit

ACCOMMODATION
Crew 14 persons (or 13 with a hospital), MLC compliant

NAUTICAL AND COMMUNICATION EQUIPMENT
Radar system 1x X-band
1x S-band
GMDSS Area A3
Camera system CCTV
Remote monitoring Damen Connected Ship

OPTIONS
The Damen TSHD series are of a modular design to enable customization of the vessel. Optional systems can be added or omitted to meet specific client requirements.

Main options comprise:
Discharge system Self-emptying system with bow coupling
Discharge system Additional booster station installed on board
Dredge system Fixed separate rainbow nozzle
Dredge system Degassing installation
Accommodation Additional tier of superstructure to max crew of 21 persons
Deck crane 1x 16.0 t @ 16.5 m
Additional class notations CLEANSHIP ULEV

Other options upon request

All information in this datasheet is intended for information only. Figures may vary depending on final configuration of the vessel.
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