

Trailing Suction Hopper Dredger 2000

TSHD SERIES



PICTURE OF SIMILAR VESSEL

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, COMF-NOISE 3, GREEN PASSPORT

DIMENSIONS

Length o.a.(excl bow coupling)	73.00	m
Length b.p.p.	69.00	m
Beam moulded	18.40	m
Depth moulded	7.40	m
Draught (summer)	4.10	m
Draught (dredging)	4.70	m
Deadweight (dredging)	3,350	t
Hopper volume (top overflow)	2,200	m ³

TANK CAPACITIES

Fuel oil (service)	295	m ³
Potable water (service)	40	m ³
Sewage	20	m ³
Urea	17	m ³

PERFORMANCES

Speed (dredging draught)	11.2	kn
Dredging depth	20	m
Rainbow distance	50	m (option)
Discharge distance	2,000	m (option)

MAIN MACHINERY

Total installed diesel power	3,100 kW (3 pcs)
Main engines	PS: 1,350 kW @ 1,600 RPM SB: 1,350 kW @ 1,600 RPM
Propulsion power	2x 1,200 kW
Propellers	2x 2,100 mm, CPP, in nozzle
Bow thruster	1x electrical driven, transverse tunnel thruster, 300 kW

DREDGE SYSTEM

Trailing suction system	1x 600 mm trailing suction pipe 1x dredge pump 1x adjustable overflow 1x light mixture overboard
Discharge system	5x rod actuated bottom doors
Supporting systems	2x jet water pumps, each 175 kW
Monitoring system	DDM5.0 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, 5t pull
Davit	1x combined stores and life raft davit 1x combined rescue boat and life raft davit

ACCOMODATION

Crew	14 persons (or 13 with a hospital), MLC compliant
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NAUTICAL AND COMMUNICATION EQUIPMENT

Radar system	1x X-band 1x S-band
GMDSS	Area A3
Camera system	CCTV
Remote monitoring	Damen Triton

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.

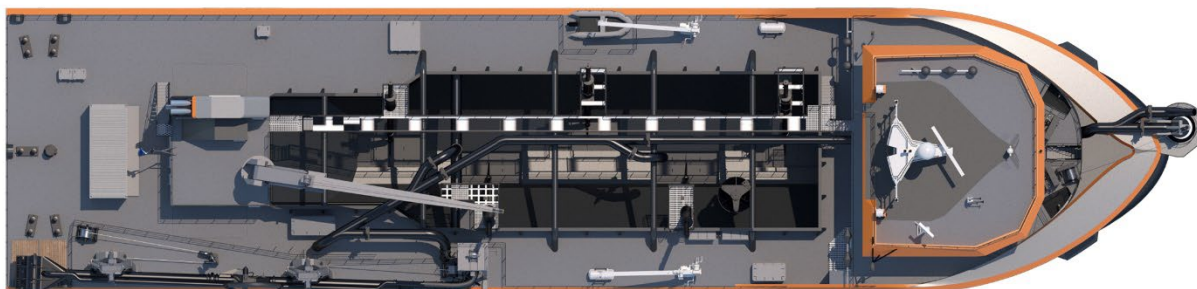
Main options comprise:

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	Crew increase to maximum of 21
Deck crane	1x 7.0 t @ 15.5 m
Additional class notations	CLEANSHIP ULEV

Other options upon request

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