

Trailing Suction Hopper Dredger 1500

TSHD PORT AND MAINTENANCE 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 8 miles from shore, AUT-UMS, GREEN PASSPORT

DIMENSIONS

Length o.a.(ex bow coupling)	70	m
Length b.p.p.	66.90	m
Beam moulded	13.20	m
Depth moulded	5.40	m
Draught (dredging)	4.50	m
Deadweight	2,300	t
Hopper volume	1500-1700	m ³

TANK CAPACITIES

Fuel oil (service)	170	m ³
Potable water (service)	34	m ³

PERFORMANCES

Speed (dredging draught)	10.0	kn
Dredging depth	20	m
Rainbow distance	30	m
Discharge distance	1000	m

PROPULSION SYSTEM

Propulsion power	2x 700 kW
Propellers	2x 1,400 mm, FPP, azimuth in nozzle
Bow thruster	1x channel type, 280 kW

DREDGE SYSTEM

Trailing suction system	1x 500 mm trailing suction pipe 1x diesel driven dredge pump 1x adjustable overflow
Discharge system	3x rod actuated bottom doors
Supporting systems	1x diesel driven jet water pump

ELECTRICAL SYSTEM

Networks	440V/230V @ 60 Hz
Generator sets	2x 150 ekW
Emergency generator set	1x 50 ekW

DECK EQUIPMENT

Anchor winch	2x electric
Capstans	2x electric, 5t pull
Store crane	Combined store and rescue boat davit

ACCOMMODATION

Crew	12 persons
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NAUTICAL AND COMMUNICATION EQUIPMENT

Radar system	1x X-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

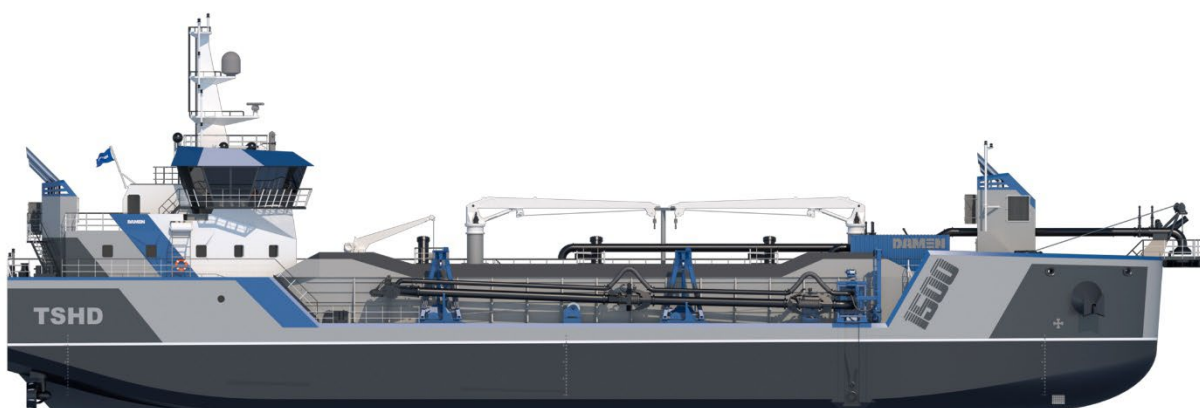
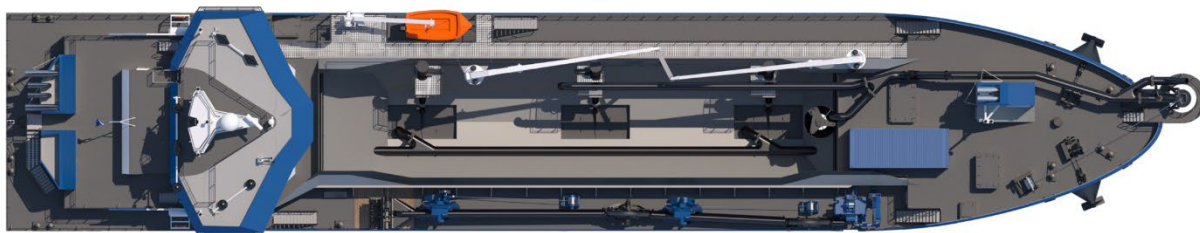
Main options comprise:

Dredge system	Light mixture overboard system with Non-radioactive production measurement Self-emptying system with bow coupling
Discharge system	DDM 5.0 with various modules
Dredge Monitoring	Degassing system
Dredge system	Fixed rainbow nozzle
Discharge system	2x hydraulic stiff boom (3.5 t @ 11 m, 5.0 t @ 11 m)
Additional deck cranes	SCR exhaust system for all diesel engines larger than 130 kW
IMO Tier III compliant	Additional accommodation tier to increase crew capacity to 22
Increased accommodation	

Other options upon request

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