



# 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, COMF-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 m <sup>3</sup>

## TANK CAPACITIES

Fuel oil (service)	460 m <sup>3</sup>
Potable water (service)	45 m <sup>3</sup>
Sewage	20 m <sup>3</sup>
Urea	32 m <sup>3</sup>

## 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
Propulsion power	2x 1,750 kW
Propellers	2x 2,500 mm, CPP, in nozzle
Bow thruster	1x electrical driven, transverse tunnel thruster, 500 kW

## DREDGE SYSTEM

Trailing suction system	1x 900 mm trailing suction pipe 1x dredge pump 1x adjustable overflow 1x light mixture overboard
Discharge system	8x rod actuated bottom doors
Supporting systems	2x jet water pumps, each 375 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, 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
Dredge 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

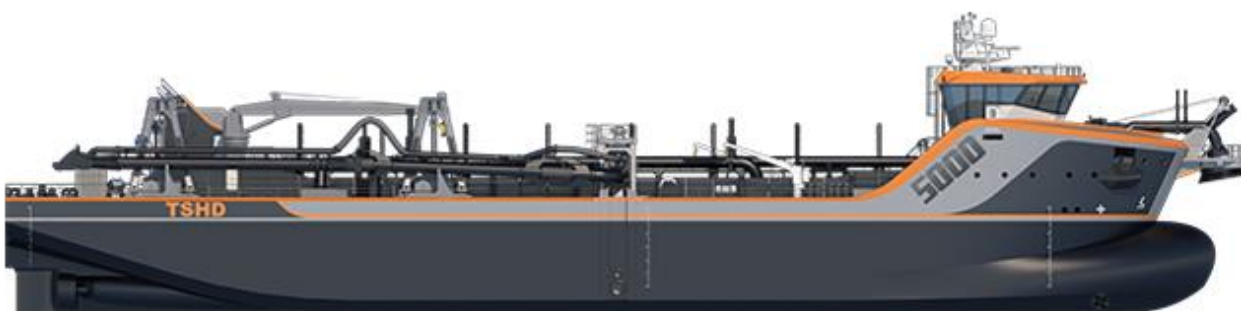
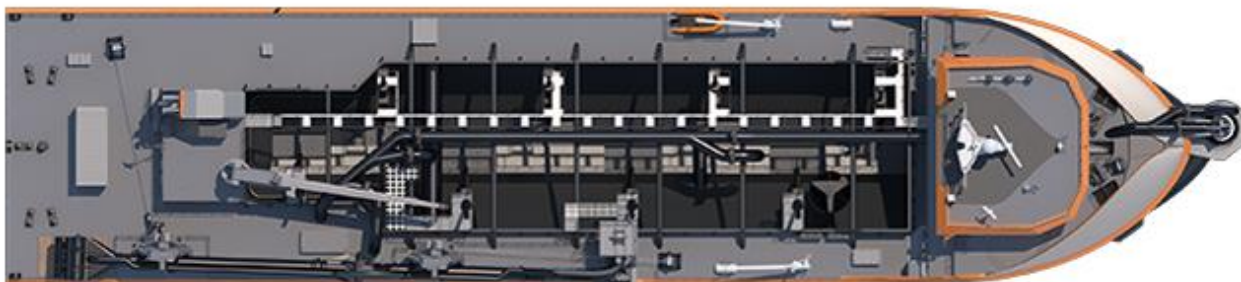
Other options upon request

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

# DAMEN

# TRAILING SUCTION HOPPER DREDGER 5000

Damen TSHD series



## DAMEN

DAMEN SHIPYARDS GROUP

Avelingen-West 20  
4202 MS Gorinchem  
The Netherlands

P.O. Box 1  
4200 AA Gorinchem  
The Netherlands

phone +31 (0)183 63 99 22  
fax +31 (0)183 63 21 89

info@damen.com  
[www.damen.com](http://www.damen.com)

© No part of the leaflet may be reproduced in any form, by print, photo print, microfilm, or any other means, without written permission from Damen Shipyards Group