



TSHD650

GENERAL

Basic functions
Classification

Maintenance trailing suction dredging
Bureau Veritas
I, ✕Hull, ✕Mach, Hopper Dredger,
unrestricted navigation – dredging within
15 miles from shore or within 20 miles
from port,
✕AUT-UMS, INWATERSURVEY,
PROTECTED FO TANKS, GREEN
PASSPORT

DIMENSIONS

Length o.a.	60.37 m
Length b.p.p.	55.60 m
Beam moulded	12.00 m
Depth moulded	4.00 m
Draught (summer)	3.18 m
Draught (dredging)	3.50 m
Deadweight, approx.	1135 t
Hopper volume	650 m ³

TANK CAPACITIES

Ballast water	82 m ³
Fuel oil (service)	62 m ³
Potable water (service)	59 m ³
Sewage	34 m ³

PERFORMANCES

Speed (dredging draught)	10.3 kn
Dredging depth	15 m
Rainbow distance, approx.	55 m (option)
Discharge distance, approx.	850 m (option)
Grab dredging distance	15 m (option)

PROPULSION SYSTEM

Propulsion power	2x approx. 447 kW
Propellers	2x 1300mm, FPP, azimuth in nozzle
Bow thruster	1x channel type, approx. 245 kW

DREDGE SYSTEM

Trailing suction system	1x 400 mm trailing suction pipe 1x diesel driven dredge pump 1x adjustable overflow
Discharge system	2x rod actuated bottom doors
Supporting systems	1x diesel driven jet water pump

AUXILIARY EQUIPMENT

Networks	400V/230V – 50 Hz
Generator sets	2x approx. 150 ekW
Emergency generator set	1x approx. 49 ekW

DECK LAY-OUT

Anchor mooring winch	1x hydraulic, with two warping heads
Capstans	2x electric, 2t pull
Deck crane	1x knuckle boom, 2.6t@8.7m

ACCOMMODATION

Crew	10 persons
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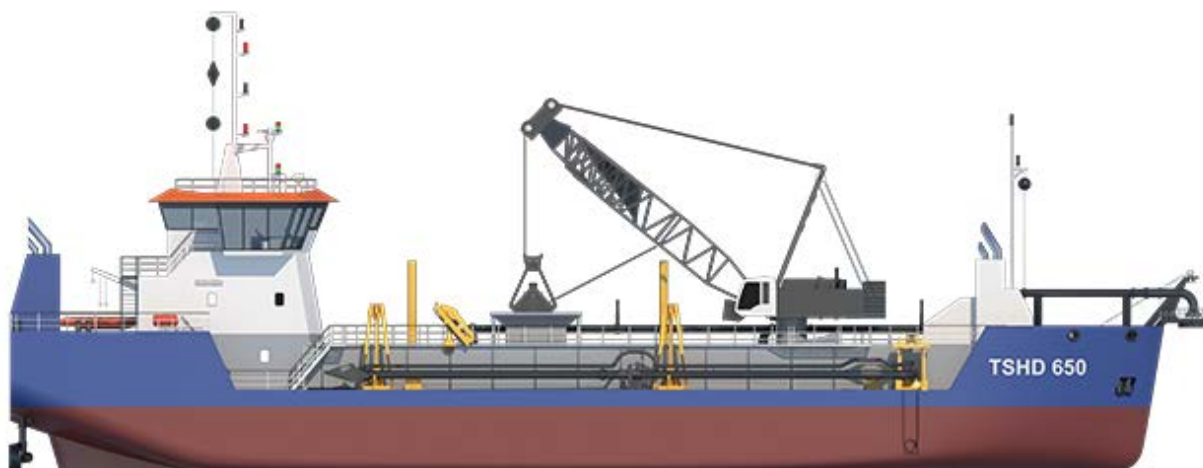
NAUTICAL AND COMMUNICATION EQUIPMENT

Radar system	1x X-band
GMDSS	Area A3

OPTIONS

Trailing suction system	1x light mixture overboard
Discharge system	1x self-emptying system
Supporting system	1x degassing system
Damen Dredge Monitoring System (DDM)	1x extended automation 1x DDM5.0 basic 1x DDM5.0 enhanced 1x NAVGUARD module
Grab crane	1x diesel-hydraulic 8t at 10 m
Bucket	1x 2.5 m ³

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