



# MAD 4000

## STANDARD

### GENERAL

Basic functions  
Classification

Marine Aggregate Dredging  
Bureau Veritas  
I, ✕Hull, ✕Mach, Hopper Dredger,  
unrestricted navigation, AUT-UMS,  
CLEANSHIP

### DIMENSIONS

Length overall	100.41 m
Length between p.p.	94.88 m
Beam molded	22.00 m
Depth molded	9.10 m
Draught (summer)	6.95 m
Deadweight (dredging)	7785 t
Hopper volume	4000 m <sup>3</sup>
Crew	14 persons

### TANK CAPACITIES

Fuel oil	570 m <sup>3</sup>
Potable water	60 m <sup>3</sup>
Sewage	16 m <sup>3</sup>

### PERFORMANCES

Speed (at summer draught)	13.6 kn
Trailing dredging depth	35 m

### PROPULSION SYSTEM

Main engines	2x medium speed, approx. 3300 kW
Propulsion power	2x 3000 kW
Propellers	2x 3000 mm, CPP, in nozzle
Bow thruster	1x 700 kW, FPP, in water (de)mountable

### DREDGE SYSTEM

Trailing suction system

1x 750mm trailing suction pipe  
1x submerged dredge pump, approx. 1750 kW  
2x telescopic overflow  
1x dredge tracking and indication package

Loading system  
Discharge system

1x screening installation with 2 modular screen decks  
1x automatic grab dry unloading system, mean discharge capacity 1500 m<sup>3</sup>/h, boom conveyor 27m @ 270°

Supporting systems

1x jet water system, electric driven pump 2500 m<sup>3</sup>/h @ 8 bar

### ELECTRICAL EQUIPMENT

Networks	690V/440V/230V @ 60 Hz
Shaft generators	2x 2200 ekW @ 1200 rpm
Emergency/harbor set	1x 348 ekW @ 1800 rpm

### DECK LAY-OUT

Anchor mooring winch	2x electric, with warping head
Capstan	1x electric, 5 t pull
Deck crane, on dry unloader	1x telescopic, 5 t @ 8 m (harbor)

### ACCOMMODATION

Cabins	14 single, MLC compliant, all cabins provided with internet, telephone and tv
Other spaces	office, meeting room, day room, gym

### NAUTICAL AND COMMUNICATION EQUIPMENT

Nautical	radar X-band + S-band, ECDIS, autopilot
GMDSS	Area A3

### OPTIONS

Increased dredging depth  
Capacity increase to 5600 m<sup>3</sup>  
Spud poles  
Bottom doors  
Self-emptying system  
IMO Tier III  
Other type dry unloader

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# DAMEN

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