



# DAMEN ELECTRIC CUTTER SUCTION DREDGER 500

## "AMORIS"

### GENERAL

YARD NO.	B09.0370
TYPE	E-CSD450
DELIVERY DATE	January 2011
BASIC FUNCTIONS	Maintenance dredging

### DREDGING FEATURES

MAXIMUM CUTTER DEPTH	18 m
SWING WIDTH AT -18M	38 m
UNLOADING BARGES	with unloading arm

### DREDGE INSTALLATION

DREDGE PUMP TYPE (2X)	BP45-1100
DIAM. SUCTION/DISCHARGE PIPE	450 mm
CUTTER TYPE	5-1450 RU (with changeable chisels)
CUTTER POWER	110 kW

### ENGINE INSTALLATION

ELECTRIC MOTOR DREDGE PUMP	EN HN-400LY4 (2x)
CONTINUOUS POWER RATING	600 kW @ 1,485 rpm
HYDRAULIC INSTALLATION	driving cutter, winches, spud carriages and ladder
STEP DOWN TRAFO	Resibloc 15,75 kVac
ELECTRICAL INSTALLATION	400 Vac, 230 Vac and 24 Vdc

### PRINCIPAL DIMENSIONS

LENTH O.A. INCL. LADDER	64.40 m
LENGTH OVER PONTOONS	34.00 m
BREADTH	9.50 m
DEPTH	3.30 m
DRAUGHT	1.4 m
TOTAL WEIGHT	435 ton

### TANK CAPACITIES

FUEL OIL APPROX.	2 m <sup>3</sup>
BALLAST WATER (FORE AND AFT)	47 m <sup>3</sup>
WASTE WATER	2 m <sup>3</sup>
FRESH WATER	2 m <sup>3</sup>

### DECK MACHINERY

LADDER HOISTING CILINDERS(2X)	stroke 1300 mm
CUTTER LIFT CILINDERS (2X)	stroke 835 mm
SWING CILINDERS (2X)	stroke 1810 mm
SPUDS HOISTING WINCHES (4X)	hydraulic 150 kN, 0-15 m/min
BARGE MANOUVRING. WINCHES (2X)	hydraulic, 80 kN, 0-15 m/min
SPUD CARRIAGE CILINDERS (2X)	stroke 4000 mm
CRANE	Hydraulic HLRM 35-4S with grab

### DREDGING INSTRUMENTATION

- Ladder position indicators
- Cable tension measurement on spud hoisting system
- Vacuum and pressure indication of dredge pump
- Density and velocity measurement

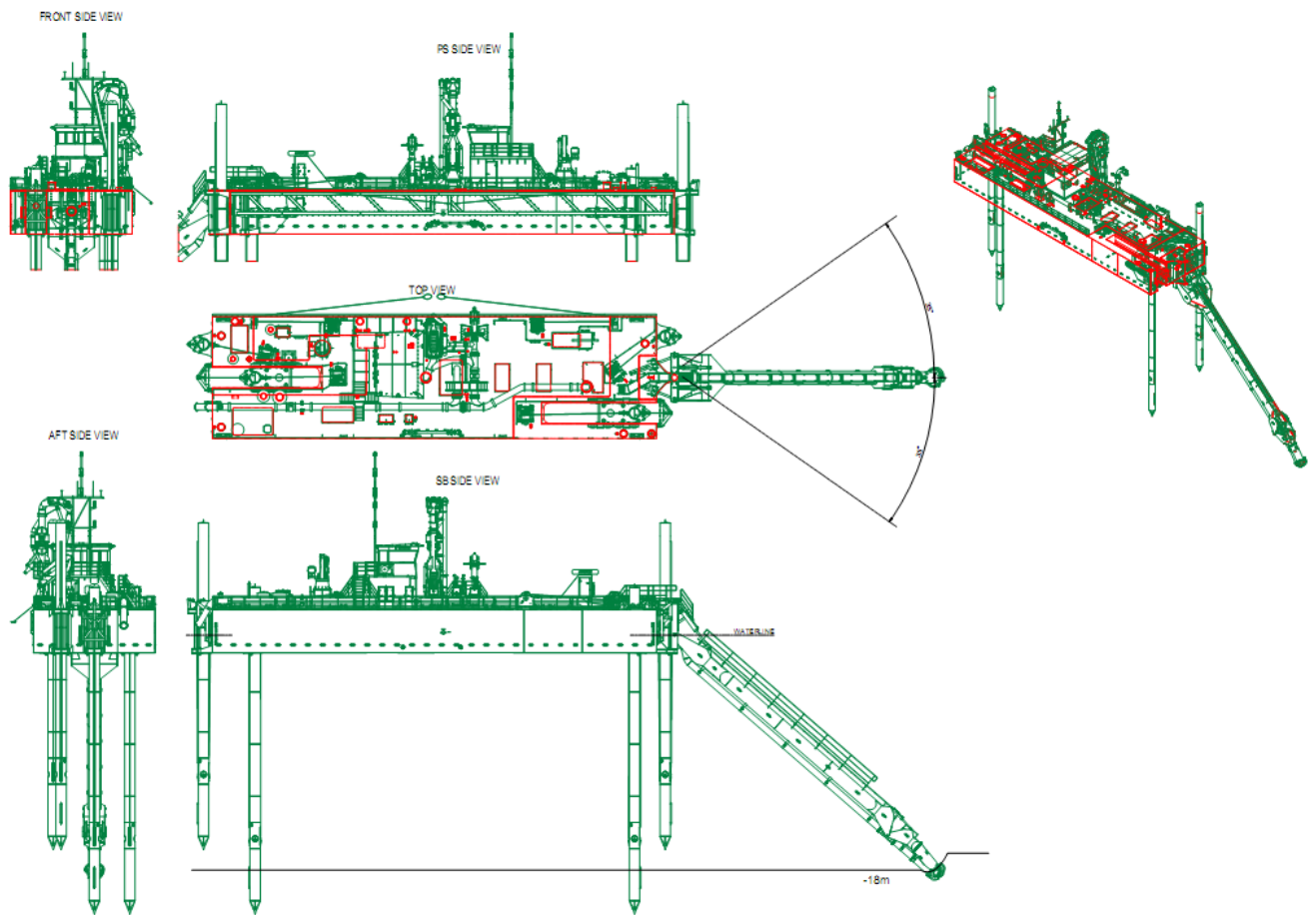
### REMARKABLE FEATURES

- Stationary pontoon with swinging ladder (no side wire necessary)
- 4 spuds with 2 spud carriages for continuous dredging
- Heavy duty robust construction
- Barge unloading system with unloading arm and jet water monitor
- Bollards fore and aft at both sides of the dredger
- Separate engine room hatches for optimal maintenance
- Power through high voltage wall cable
- Power back up system through diesel engine
- Accommodation with kitchen en toilet
- Spacious ergonomic designed control cabin and engine room
- Operators cabin with air conditioning
- Marine coating system and cathodic protection
- Search light
- MF/HF and VHF radio systems

### OWNER

SeReAnt (temporary trade association formed by Jan De Nul and Dredging International (DEME))

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DAMEN DREDGING EQUIPMENT

Member of the DAMEN SHIPYARDS GROUP



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