



# DAMEN CUTTER SUCTION DREDGER 500

“CONCHAS”

## GENERAL

YARD NO.	B11.0503 – YN561538
TYPE	CSD500
DELIVERY DATE	January 2012
BASIC FUNCTIONS	Maintenance dredging
CLASS	Bureau Veritas
CLASSIFICATION	BV1* hull, dredger NP sheltered area

## DREDGING FEATURES

DREDGING DEPTH	14 m
MIXTURE CAPACITY	4000 m <sup>3</sup> /h

## DREDGE INSTALLATION

DREDGE PUMP TYPE	BP5045MD
DIAM. SUCTION/DISCHARGE PIPE	550/500 mm
CUTTER TYPE	5-1625 (with changeable chisels)
CUTTER POWER	180 kW

## ENGINE INSTALLATION

DREDGE PUMP DIESEL	Caterpillar 3512B
CONTINUOUS POWER RATING	954 kW @ 1600 rpm
AUXILIARY DIESEL	Caterpillar 3406-DITA JWAC
PRIME POWER RATING	345 kW @ 1800 rpm
HYDRAULIC INSTALLATION	driving cutter, winches and spuds
ELECTRICAL INSTALLATION	24 Volt DC and 230/400 Volt AC, 34 kVA

## PRINCIPAL DIMENSIONS

LENTH O.A. INCL. LADDER	50.00 m
LENGTH OVER PONTOONS	36.50 m
BEAM	7.95 m
DRAUGHT	1.30 m

## TANK CAPACITIES

FUEL OIL APPROX.	37.0 m <sup>3</sup>
BALLAST WATER (FORE AND AFT)	32.0 m <sup>3</sup>
SEWAGE	3.3 m <sup>3</sup>
FRESH WATER	3.3 m

## DECK MACHINERY

LADDER WINCH	hydraulic, 120 kN, 0-15 m/min
SWING WINCHES (2X)	hydraulic, 120 kN, 0-15 m/min
SPUDS (2X)	Ø 610 mm, length 19 m
SPUD HOISTING (2X)	hydraulic cylinder, stroke 1500 mm
SPUD CARRIAGE	Hydraulic cylinder, stroke 4000 mm

## DREDGING INSTRUMENTATION

- Dredging depth indicator
- Vacuum and pressure indication of dredge pump
- Production calculation unit
- Dredge pack positioning system

## REMARKABLE STANDARD FEATURES

- Dismountable design
- Heavy duty robust design
- Scantlings well in excess of class regulations
- Spacious ergonomic designed control cabin and engine room
- Simultaneous operation of all functions possible
- 230/400 Volt AC installation
- Operators cabin with air conditioning

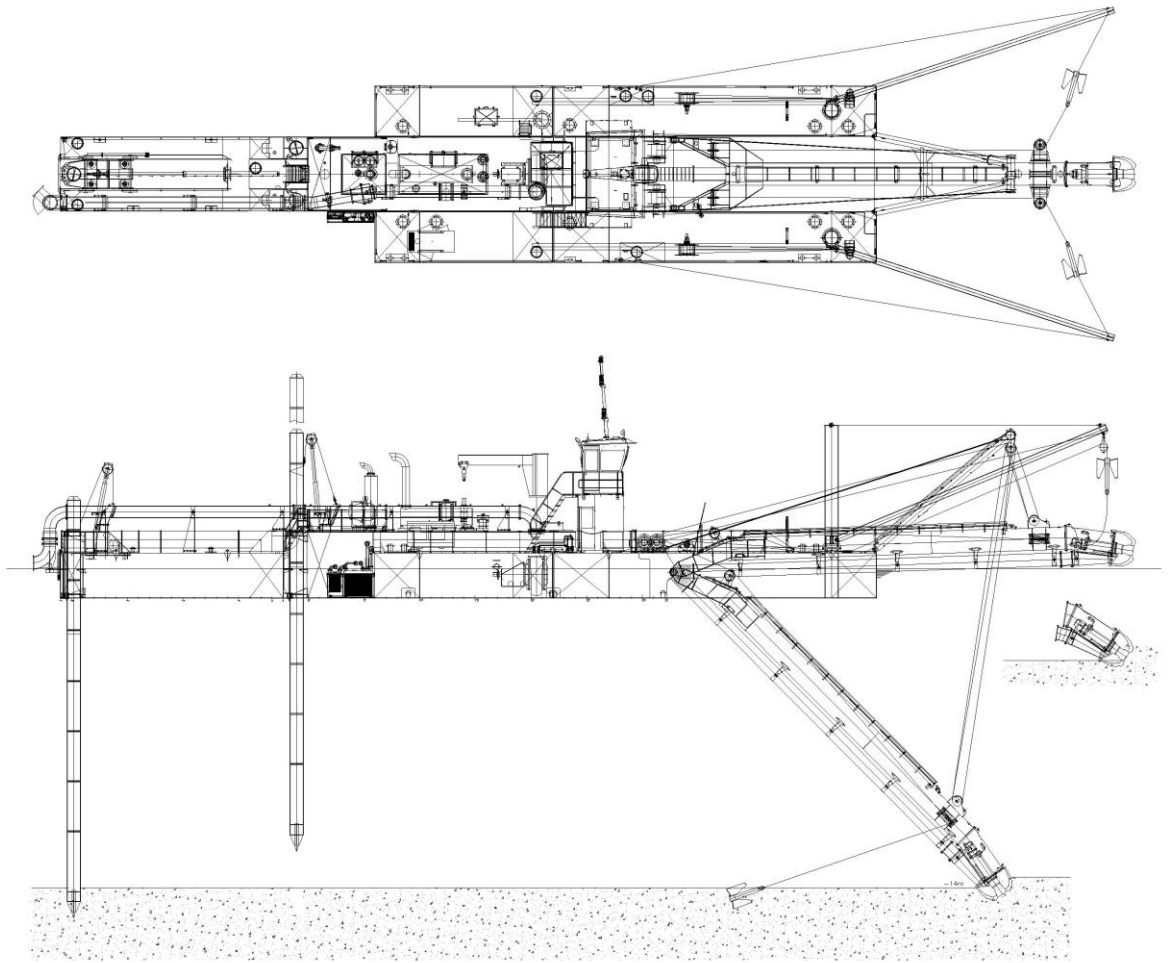
## PROVIDED OPTIONS

- Jib Crane
- Day accommodation unit
- Stern swivel
- Non-return valve
- Anchor booms
- Spud carriage pontoon
- VHF radio
- Navigation lights
- Search light
- Auxiliary generator set on deck

## OWNER

MAPS, Angola

**DAMEN**



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## DAMEN

DAMEN DREDGING EQUIPMENT

Member of the DAMEN SHIPYARDS GROUP



Edisonstraat 32  
3861 NE Nijkerk

P.O. Box 1021  
3860 BA Nijkerk  
The Netherlands

phone +31 (0)33 247 40 40  
fax +31 (0)33 247 40 60

info@damendredging.com  
www.damendredging.com