



DAMEN CUTTER SUCTION DREDGER 500

“THE HAND OF GOD”

GENERAL

YARD NO.	B12.0123/YN581539
TYPE	CSD500
DELIVERY DATE	July, 2012
BASIC FUNCTIONS	Capital mining and maintenance dredging

DREDGING FEATURES

DREDGING DEPTH	-16 m
MIXTURE CAPACITY	4000 m ³ /h

DREDGE INSTALLATION

DREDGE PUMP TYPE	BP5045
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 C12 TA
PRIME POWER RATING	339 kW @ 1800 rpm
HYDRAULIC INSTALLATION	Driving cutter, winches and spuds
ELECTRICAL INSTALLATION	24 Volt DC and 230/400 Volt AC, 34 kVA

PRINCIPAL DIMENSIONS

LENGTH O.A. INCL. LADDER	53,00 m
LENGTH OVER PONTOONS	36,60 m
BEAM	7,95 m
DRAUGHT	1,00 m
AIR DRAUGHT	6,40 m
TOTAL WEIGHT	176 ton

TANK CAPACITIES

FUEL OIL APPROX.	22,0 m ³
BALLAST WATER (FORE AND AFT)	4x8,7 m ³
HYDRAULIC OIL	2,5 m ³
SEWAGE	1,5 m ³
FRESH WATER	1,5 m ³

DECK MACHINERY

LADDER WINCH	Hydraulic, 160 kN, 0-15 m/min
SWING WINCHES (2X)	Hydraulic, 160 kN, 0-15 m/min
SPUDS (2X)	Ø 610 mm, length 21 m
SPUD HOISTING (2X)	Hydraulic cylinder, stroke 1500 mm
SPUD CARRIAGE CYLINDER	Hydraulic cylinder, stroke 4000 mm

INSTRUMENTS

Dredging depth indicator
Vacuum and pressure indication of dredge pump

REMARKABLE 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
- Operators cabin with air conditioning

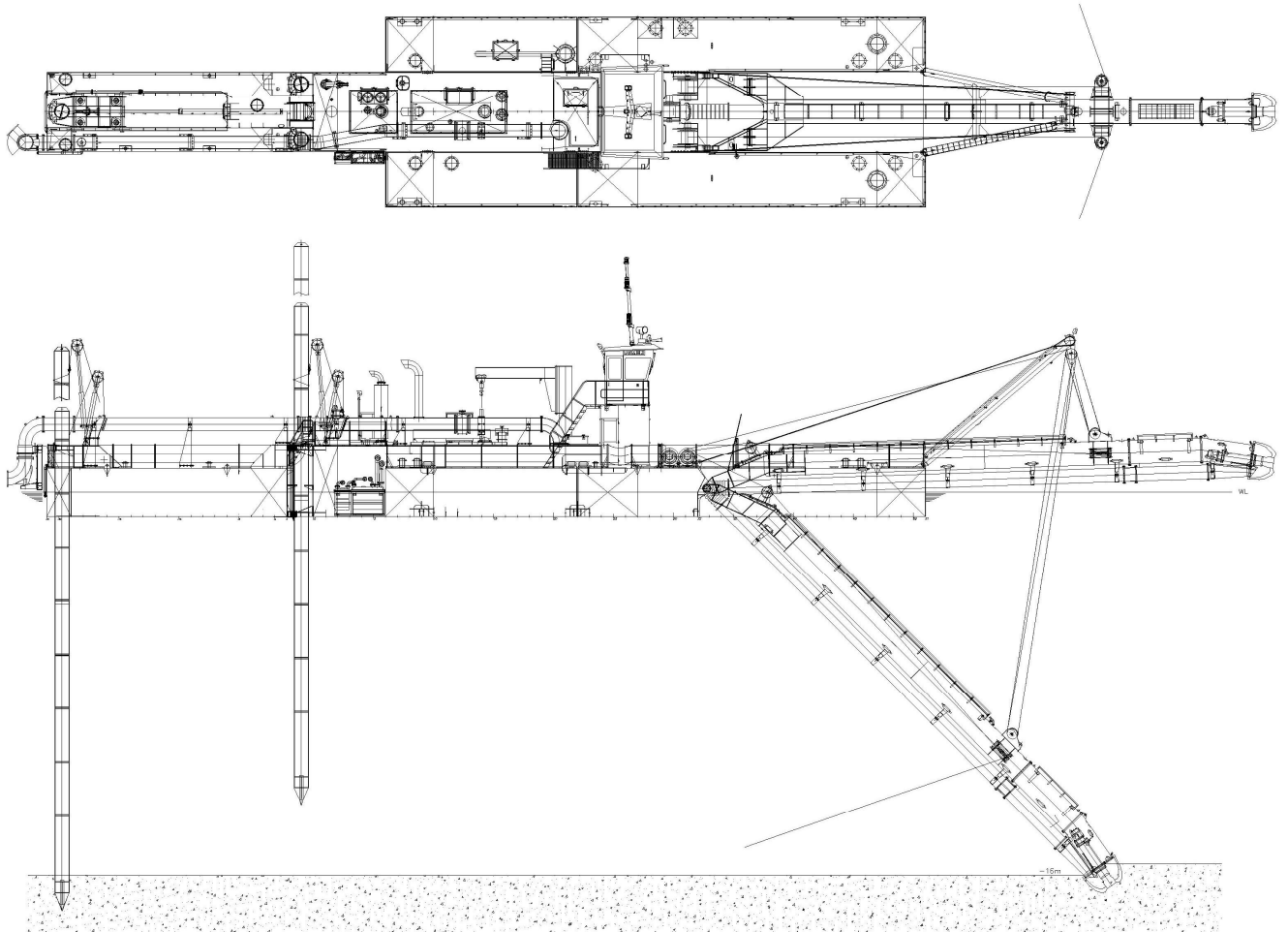
PROVIDED OPTIONS

- Spud carriage installation
- Navigation package
- Communication package
- Ladder Extension
- Crew accommodation
- Production measurement
- Deck crane
- Navguard positioning visualization
- RTK shore based station
- Adapted to strong currents

OWNER

William Lloyd, Nigeria

DAMEN



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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