



# DAMEN CUTTER SUCTION DREDGER 450

## “DAULA PERIPA”

### GENERAL

YARD NO.	B10.0137 – YN561418
TYPE	CSD450
DELIVERY DATE	July, 2010
BASIC FUNCTIONS	Capital, mining and maintenance dredging

### DREDGING FEATURES

DREDGING DEPTH	12 m
MIXTURE CAPACITY	3000 m <sup>3</sup> /h

### DREDGE INSTALLATION

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

### ENGINE INSTALLATION

DREDGE PUMP DIESEL	Caterpillar 3508 B, SCAC
CONTINUOUS POWER RATING	638 kW @ 1,600 rpm
AUXILIARY DIESEL	Caterpillar 3406 DITA
PRIME POWER RATING	228 kW @ 1,800 rpm
HYDRAULIC INSTALLATION	driving cutter, winches and spuds
ELECTRICAL INSTALLATION	24 Volt DC

### PRINCIPAL DIMENSIONS

LENTH O.A. INCL. LADDER	43.50 m
LENGTH OVER PONTOONS	33.00 m
BREADTH	6.95 m
DEPTH	1.85 m
DRAUGHT	1.15 m
TOTAL WEIGHT	130 ton

### TANK CAPACITIES

FUEL OIL APPROX.	16 m <sup>3</sup>
BALLAST WATER (FORE AND AFT)	12 m <sup>3</sup>

### DECK MACHINERY

LADDER WINCH	hydraulic, 80 kN, 0-15 m/min
SWING WINCHES (2X)	hydraulic, 80 kN, 0-15 m/min
SPUDS (2X)	Ø 508 mm, length 16 m
ANCHOR BOOM WINCHES (2X)	hydraulic, 30 kN, 0-25 m/min
SPUD HOISTING (2X)	hydraulic cylinder, stroke 1500 mm

### DREDGING INSTRUMENTATION

- Dredging depth indicator
- Vacuum and pressure indication of dredge pump

### REMARKABLE STANDARD FEATURES

- Dismountable design
- Heavy duty robust construction
- Coupling system for rapid (dis)assembly
- Scantlings well in excess of class regulations
- Bollards fore and aft at both sides of the dredger
- Separate engine room hatches for optimal maintenance
- All Caterpillar engines, complying with IMO regulations
- Simultaneous operation of all functions possible
- 230/400 Volt AC installation
- Spacious ergonomic designed control cabin and engine room
- Operators cabin with air conditioning
- Marine coating system and cathodic protection

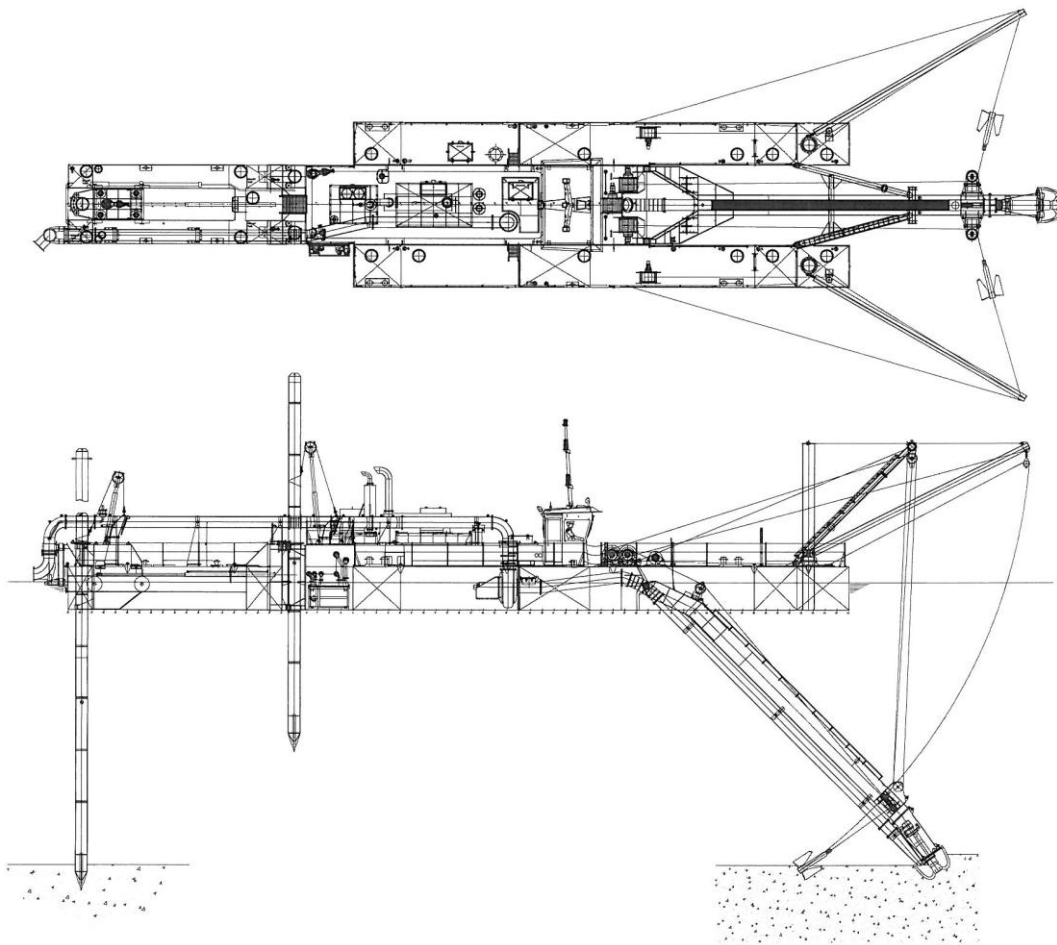
### PROVIDED OPTIONS

- Spud carriage pontoon
- Anchor booms
- Search light
- Stern swivel
- Special electric installation 110 Volt AC
- MF/HF and VHF radio systems

### OWNER

Senagua (Secretaria Nacional de Agua), Ecuador

# 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