



DAMEN CUTTER SUCTION DREDGER 450

GENERAL

YARD NO.	B150012 / YN561428
TYPE	CSD450
DELIVERY TIME	November, 2015
BASIC FUNCTIONS	Capital mining and maintenance dredging

DREDGING FEATURES

DREDGING DEPTH	-12 m
MAX. SWING WIDTH	45.5 m
MIXTURE CAPACITY	3,000 m ³ /h

DREDGE INSTALLATION

DREDGE PUMP TYPE	BP45-1100
DIAM. SUCTION/DISCHARGE	450/450 mm
CUTTER TYPE	5-1500 (with changeable chisels)
CUTTER POWER	110 kW

ENGINE INSTALLATION

DREDGE PUMP DIESEL	Caterpillar 3508B
CONTINUOUS POWER RATING	638 kW @ 1,600 rpm
AUXILIARY DIESEL	Caterpillar C-09 TA
PRIME POWER RATING	232 kW @ 1,800 rpm
HYDRAULIC INSTALLATION	Driving cutter, winches, spuds and propulsion
ELECTRICAL INSTALLATION	24 V DC and 230/400 V AC, 34 kVA

PRINCIPAL DIMENSIONS

LENGTH O.A. INCL. LADDER	42.90 m
LENGTH OVER PONTOON	32.60 m
BEAM	6.97 m
DRAUGHT	1.05 m
AIR DRAUGHT	6.20 m
TOTAL WEIGHT	153 ton

TANK CAPACITIES

FUEL OIL APPROX.	18.8 m ³
HYDRAULIC OI	1.5 m ³
BALLAST WATER (FORE & AFT)	6.0 m ³ (4x)

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
SPUD HOISTING (2X)	Hydraulic cylinder, stroke 1,500 mm
ANCHOR BOOM WINCHES (2X)	Hydraulic, 30 kN, 0-25 m/min
SPUD CARRIAGE CYLINDER	Hydraulic cylinder, stroke 3,500 mm

INSTRUMENTATION

- Dredging depth indicator
- Vacuum and pressure indication of dredge pump
- Spud carriage position indicator
- Production calculation unit
- Positioning visualisation

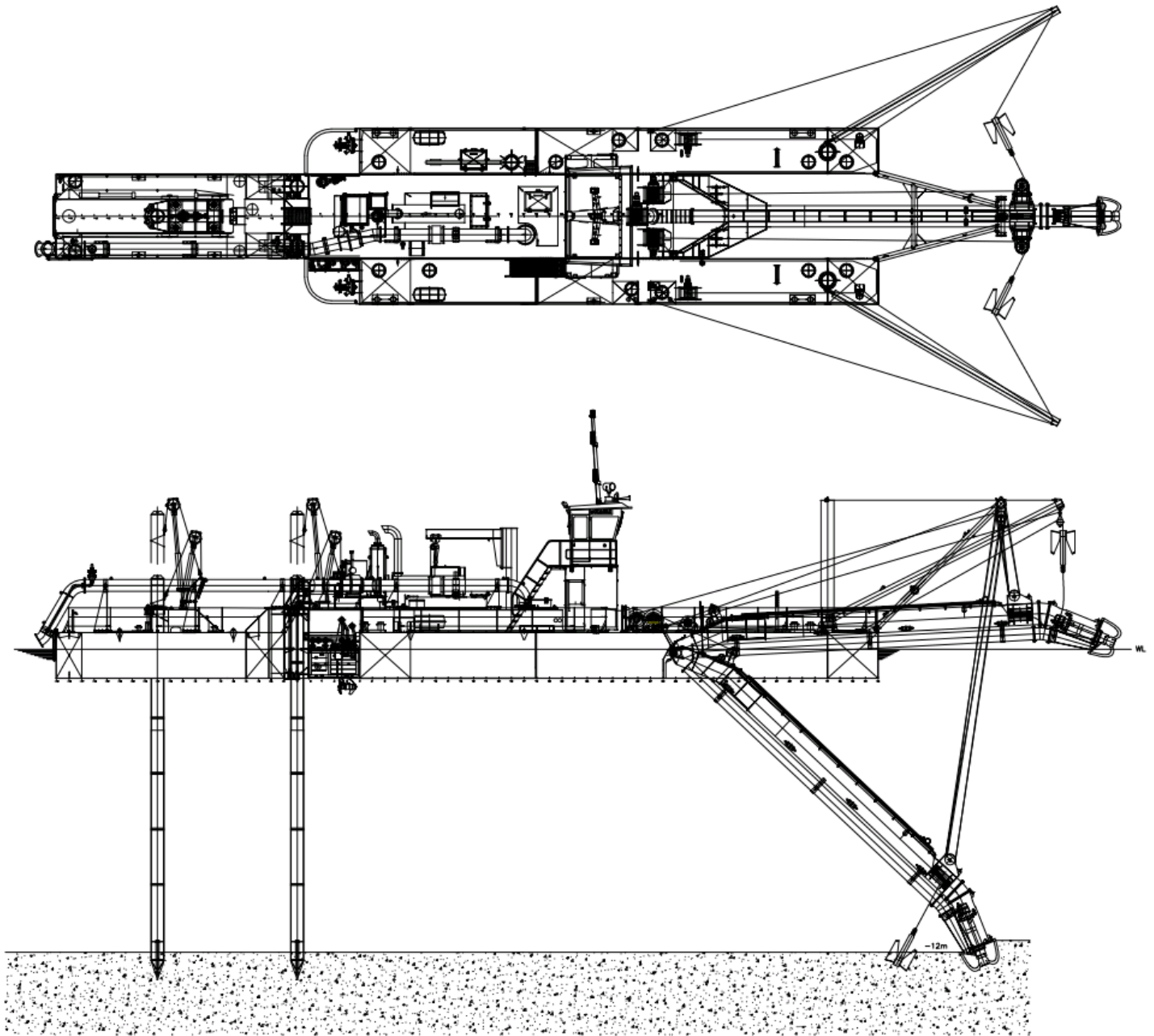
REMARKABLE STANDARD FEATURES

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

PROVIDED OPTIONS

- Classification
- Spud carriage installation
- Anchor boom installation
- Electric deck crane
- Day accommodation
- Navigation package
- Communication package
- Propulsion
- Production measurement
- Navguard positioning visualisation
- Non return valve
- Wedge piece
- Hoisting package
- Fi-fi installation
- Additional safety equipment
- Tank level measurement
- Anti-fouling conservation
- Provisions for higher temperature

OWNER: Saudi Border Guard, Kingdom of Saudi Arabia



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DAMEN

DAMEN DREDGING EQUIPMENT

Member of the DAMEN SHIPYARDS GROUP



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