



DAMEN CUTTER SUCTION DREDGER 500

“AKASH 1”

GENERAL

YARD NO.	B08.0645 – YN561514
TYPE	CSD500
DELIVERY DATE	October, 2011
BASIC FUNCTIONS	Capital mining and maintenance dredging

DREDGING FEATURES

DREDGING DEPTH	-14 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 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	38.50 m
LENGTH OVER PONTOONS	25.50 m
BEAM	7.95 m
DRAUGHT	1.00 m
AIR DRAUGHT	6.40 m
TOTAL WEIGHT	140 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

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

DREDGING INSTRUMENTATION

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

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

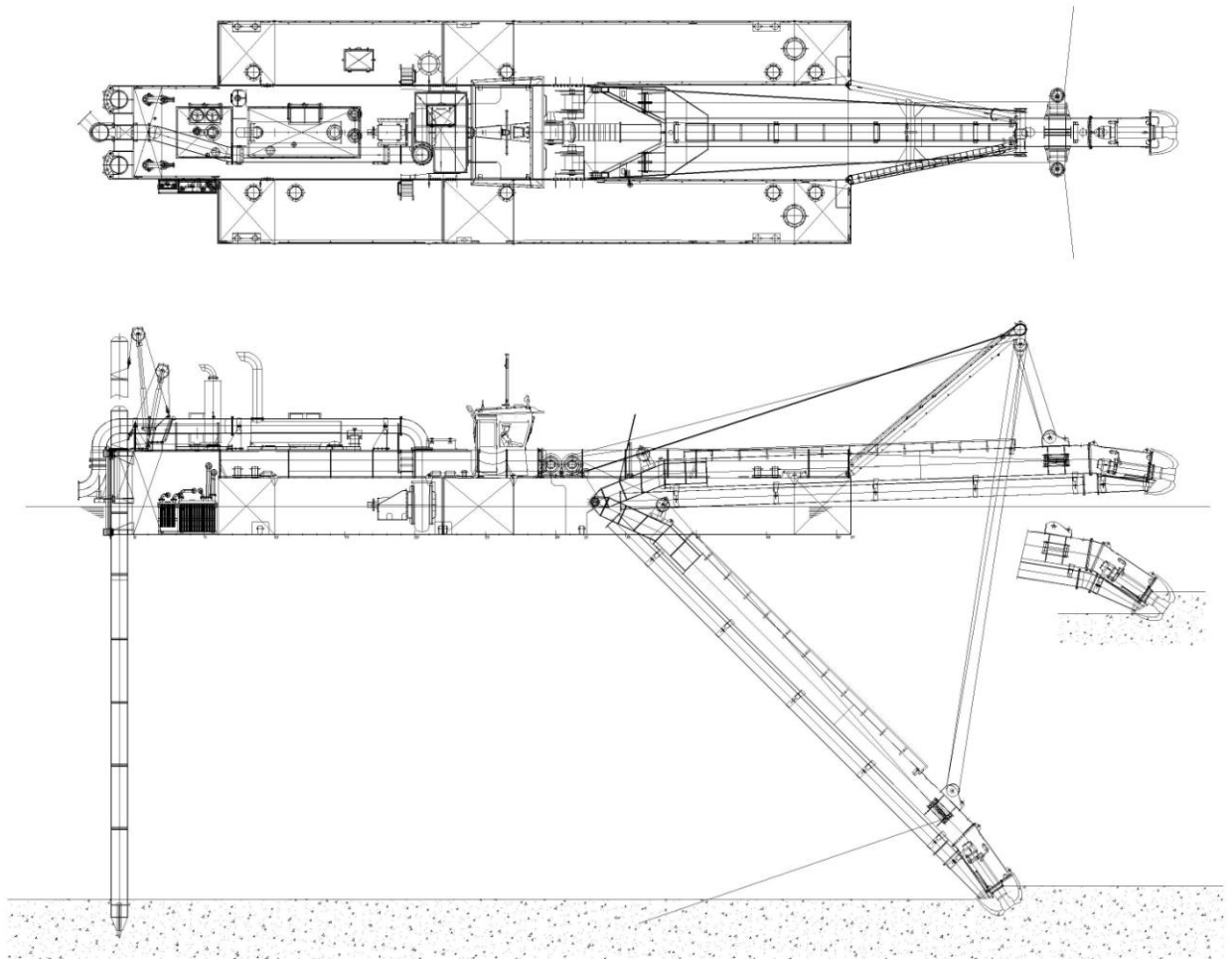
PROVIDED OPTIONS

- Stern swivel
- Wedge piece

OWNER

Akash Dredging & Marine Services Ltd., India

DAMEN



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DAMEN DREDGING EQUIPMENT

Member of the DAMEN SHIPYARDS GROUP



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