



# DAMEN CUTTER SUCTION DREDGER 500

“TS 1”

## GENERAL

|                 |                               |
|-----------------|-------------------------------|
| YARD NO.        | B11.0350 – YN561534           |
| TYPE            | CSD500                        |
| DELIVERY DATE   | October, 2011                 |
| BASIC FUNCTIONS | Maintenance dredging          |
| CLASSIFICATION  | Bureau Veritas 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                 | 1.00 m  |

## TANK CAPACITIES

|                              |                     |
|------------------------------|---------------------|
| FUEL OIL APPROX.             | 22.0 m <sup>3</sup> |
| BALLAST WATER (FORE AND AFT) | 32.0 m <sup>3</sup> |
| FRESH WATER                  | 1.6 m <sup>3</sup>  |
| SEWAGE                       | 1.6 m <sup>3</sup>  |

## 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 system

## 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
- 230/400 Volt AC installation
- Operators cabin with air conditioning

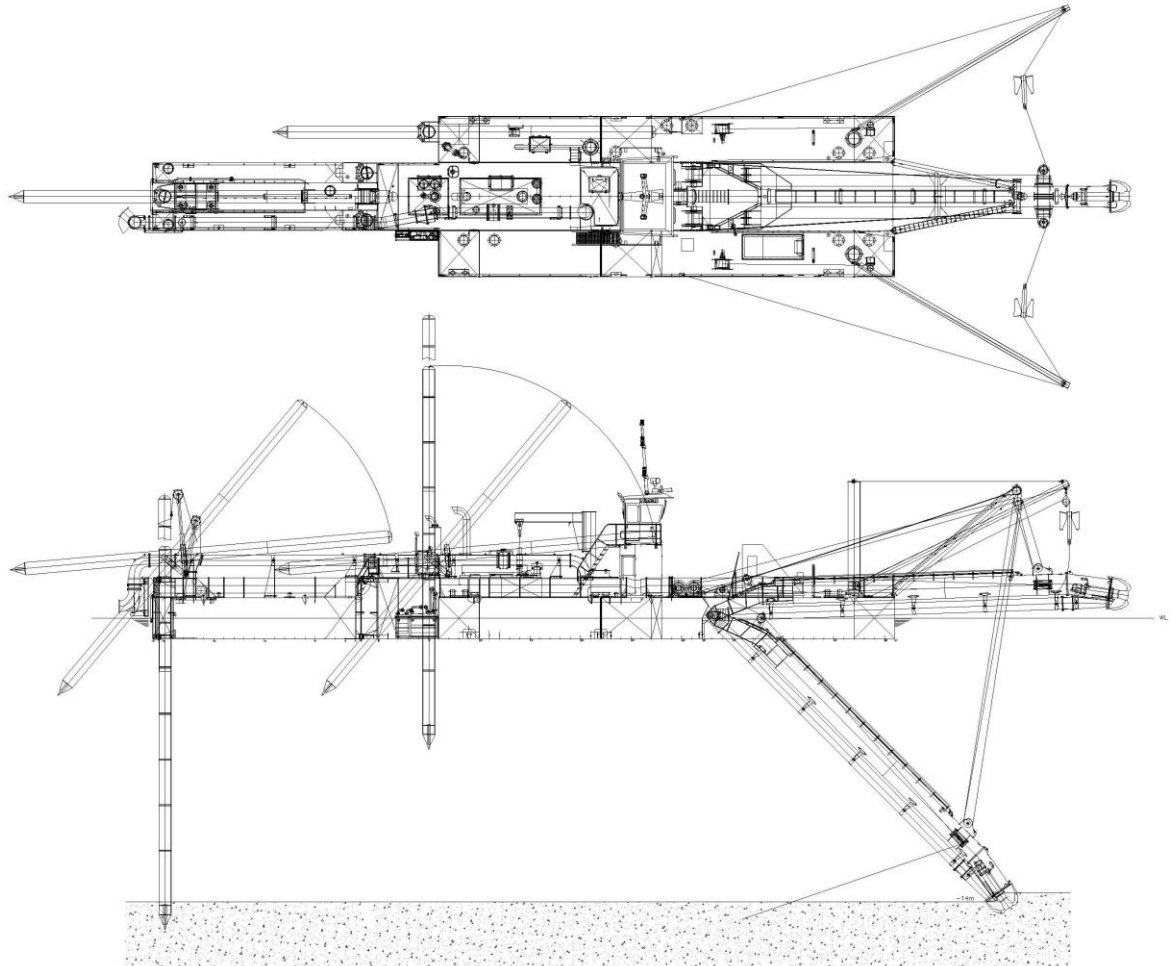
## PROVIDED OPTIONS

- Day accommodation unit
- Sleeping cabin SB fore pontoon
- Jib crane
- Anchor booms
- Non-return valve
- Stern swivel
- Fuel-water separator
- Auxiliary generator set
- Spud carriage pontoon
- Tilting spuds
- Navigation lights
- VHF radio
- Search light
- Position Visualization (Navguard)

## OWNER

Ministry of Emergency Situations, Azerbaijan

**DAMEN**



# DAMEN CUTTER SUCTION DREDGER 500

“TS 1”

## 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