

CSD 500

Cutting Suction Dredger



The Cutter Suction Dredger CSD500 may be used only to transfer mud, sand, gravel and or water mixtures or other similar materials.

GENERAL DATA

Type	Cutting Suction Dredger
Year built / Place of build	2011/Damen, Nederland
Class	RMRS KE ⚓ R3 Dredger
Flag	Azerbaijan
Registered Number	140361
DAMEN N°	561518-2009 Year

DIMENSIONS

Length	25.5 m
Length including cutter (overall)	39.0 m
Breadth molded	7.95 m
Molded Depth	1.8093 m
Summer Draft	950 mm
Freeboard at Summer	50 mm
Draft Gross Tonnage	93.0 t
Net Tonnage	- t
Total weight empty ship	140 t

CAPACITIES

Fuel Oil	2 x 11.0 m ³
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BALLAST SYSTEM

Ballast tank forward	2 x 3 m ³
Ballast tank Aft	2 x 2 m ³

PROPULSION

Caterpillar	CAT3512B-TA954 kW (1280 Hp) 1600 rpm
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AUXILIARIES

Dizel Engine Catapilla	CAT 3406C TA 345 kW(329 Hp) 1800 rpm
Generator Newage	BCM 184H 2238 kW 1500 rpm 34 kW 400 VAC 50Hz
Stanford	V-Belt
Cool water pump	Johnson CN40-125 V-belt
Hydraulic motor	Centa Centaflex H-CF-H400-3-SAE14

SPEED

Maximum	0-15 m/min
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FUEL CONSUMPTION PER DAY

Main Engine-	229 L/hr
AUX Engine	92 L/hr
Full load	3.8 tons per day

ACCOMMODATION

Cabin	1 x cabin for 3 people
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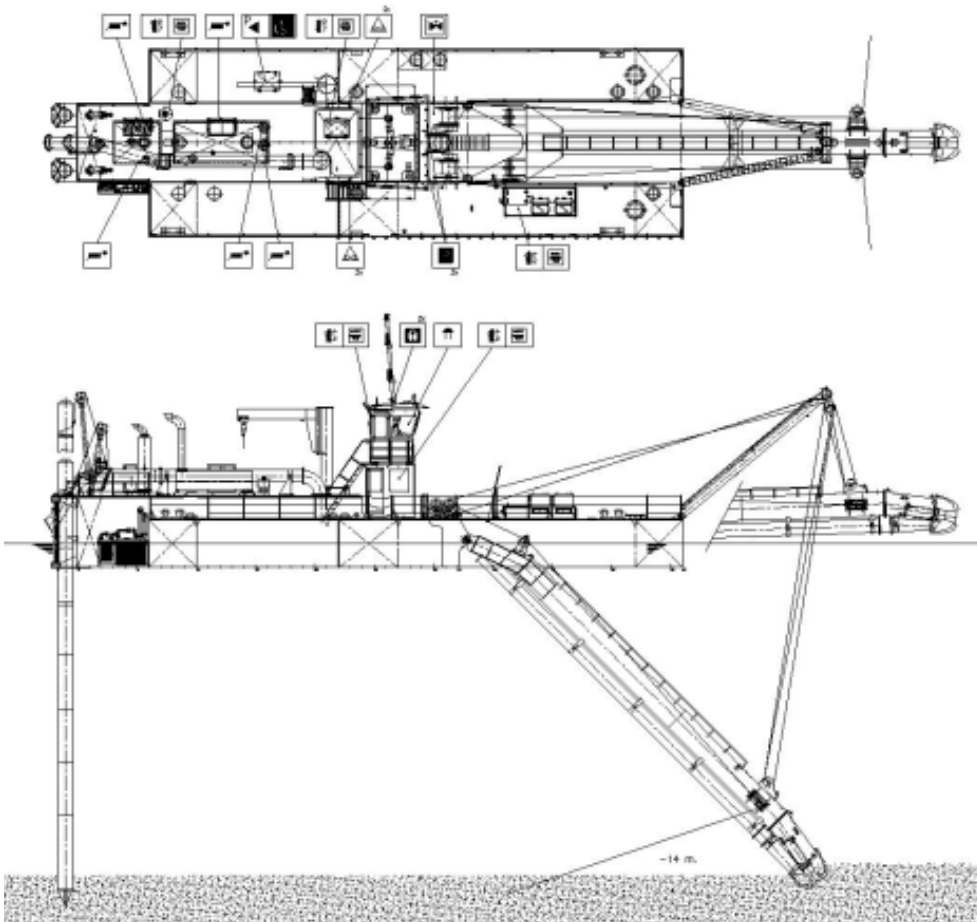
DREDGING EQUIPMENT

Ancor	2 x 750 kq Anchors
Wire Length	2 x 150m dia 24 mm and 1 x 100 m dia 24 mm
Max Load	8 Tonnes on frist layer
Type	BP5045
Dredger Pump	925 kW
Cutter Power	180 kW at 32 rpm
Cutte Suction pipe diameter	550 mm
Discharge pipe diameter	500 mm
Max cutting depth at 45°	14 m
Minimum dredging depth	1,5m (ladder angle 2,5°)
Impeller diameter	1175 mm
Impeller width	270 mm
Number of blades	5
Mixture capacity, mar power	4000 m³/h

2 pcs Powder Extinguisher	6 kq
2 pcs Powder Extinguisher	2 kq
Lifejackets	3 pcs
Lifebuoys with line	2 pcs

VESSEL SPECIFIC CHARACTERISTICS

The “CSD 500” is a Cutting suction dredger, capable of operating down to 14 meters depth. The four bladed head can rotate at 32 rpm, with two anchors and 120 meters of wire on a 7 tons pulling winch, the vessel is ideal for dredging in harbours and other sheltered waters. The vessel can operate not more than 1 mile from the shore in not more than sea state 3.



1		BACK CONNECTION FOR FIRE HOSE
1		EMERGENCY STOP 220V FUELPUMP
1		HOSE WITH SPRAY/JET FIRE NOZZLE
4		WHEEL HANDLE FUEL-OIL VALVE 2x STAMBOARD, 2x PORT-SIDE
5		SAFETY FLAP
5		FIRE-FLAP
1		PORHOLE BLUE
2		POWDER EXTINGUISHER 7kg
2		POWDER EXTINGUISHER 2kg
2		LIFEBUOYS WITH LINE
2		LIFEJACKETS
QTY	SYMBOL	DESCRIPTION

DATE	REV	DESCRIPTION	DESIGNED	CHECKED	APPROVED
DIMEN					
DIAGRAM SAFETY					
SCALE	DATE	REV	BY	CHKD	APPD
1:1	06.12.18	1.0			
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