

CUTTER SUCTION DREDGER 500

PICTURE OF SIMILAR VESSEL

GENERAL

Type	CSD 500
Basic functions	Capital mining and maintenance dredging

DREDGING FEATURES

Max. dredging depth	-14 m
Swing width	39.6 m (at max. dredging depth)
Max. mixture capacity	4,000 m ³ /h

DREDGE INSTALLATION

Dredge pump type	BP5045
Diameter suction/discharge pipe	550/500 mm
Spherical passage pump	230 mm
Cutter type	Crown model (with changeable chisels)
Cutter power	180 kW
Cutter diameter	1,625 mm

ENGINE INSTALLATION

Dredge pump diesel	Caterpillar 3512C TA
Continuous power rating	954 kW @ 1,600 rpm
Auxiliary diesel	Caterpillar C12 TA
Prime power rating	339 kW @ 1,800 rpm
Hydraulic installation	Driving cutter, winches and spuds
Electrical installation	24 V DC and 230/400 V AC, 35.4 kVa

PRINCIPAL DIMENSIONS

Length o.a. incl. ladder	38.50 m
Length over pontoons	25.50 m
Beam	7.95 m
Depth	2.00 m
Draught	1.05 m
Air draught	6.40 m
Total weight	140 ton

TANK CAPACITIES

Fuel oil approx.	21.70 m ³
Ballast water	8.80 m ³
Hydraulic oil	1.50 m ³

DECK MACHINERY

Ladder hoisting	Hydraulic winch, 120 kN, 0-15 m/min
Side wire winches (2x)	Hydraulic, 120 kN, 0-15 m/min
Spuds (2x)	Ø 610 mm, length 19 m
Spud hosting (2x)	Hydraulic cylinder, stroke 1.5 m

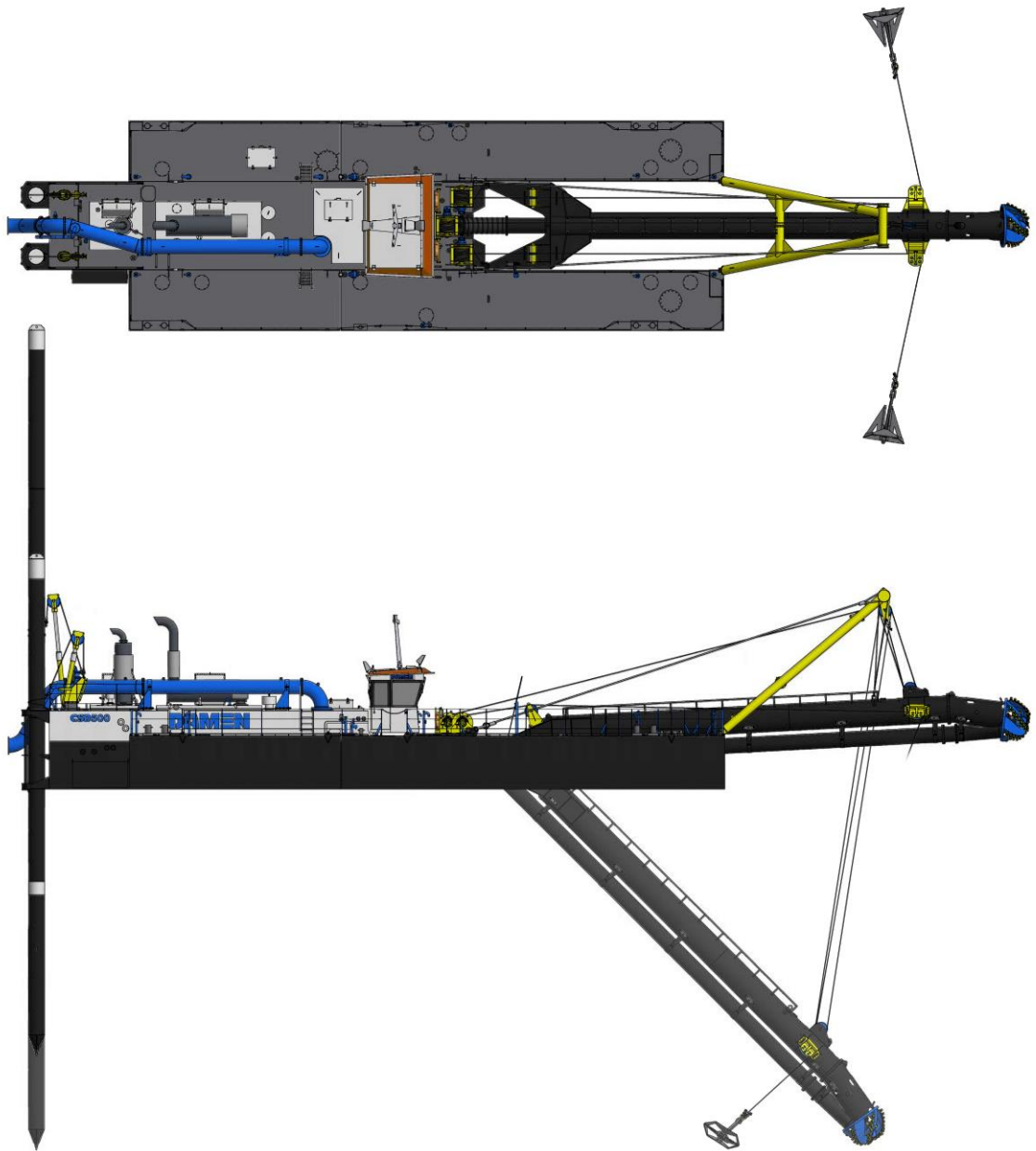
INSTRUMENTATION

Dredging depth indicator	
Vacuum and pressure indication of dredge pump	

REMARKABLE FEATURES

- Dismountable design which allows transport by road
- Heavy duty robust design
- Simultaneous operation of all functions possible
- Spacious ergonomic designed control cabin and engine room
- One operator can control the entire dredger from the control cabin
- Operators cabin with air conditioning and heating
- Scantlings well in excess of class regulations
- Large range of standard options are available to customize the CSD

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