

Deep Cutter Suction Dredger 500



▶ PICTURE OF SIMILAR VESSEL

GENERAL

Type	DCSD 500
Basic functions	Capital mining and maintenance dredging

DREDGING FEATURES

Max. dredging depth	-25 m
Max. mixture capacity	4,000 m ³ /h

DREDGE INSTALLATION

Dredge pump type	OBP5045
Diam. suction/discharge pipe	550/500 mm
Cutter type	Crown model (with changeable chisels)
Cutter power	110 kW
Spherical passage pump	230 mm
Cutter diameter	1,625 mm

ENGINE INSTALLATION

Dredge pump diesel	Caterpillar 3512C TA
Continuous power A-rating	954 kW @ 1,600 rpm
Hydraulic diesel	approx. 440 kW
Hydraulic installation	Driving cutter, winches and spuds
Electrical installation	24 V DC and 230/400 V AC, 34 kVA

PRINCIPAL DIMENSIONS APPROX.

Length o.a. incl. ladder	46 m
Length over pontoons	28.50 m
Beam	9.00 m
Depth	2.50 m
Draught	1.20 m
Air draught	6.40 m
Total weight	220 ton

TANK CAPACITIES

Fuel oil approx.	20.0 m ³
Hydraulic oil approx.	1.5 m ³

DECK MACHINERY

Ladder hoisting	Hydraulic winch, 270 kN, 0-15 m/min
Side wire winches (2x)	Hydraulic, 90 kN, 0-15 m/min
Spuds (2x)	Ø 610 mm, length 30 m
Spud hosting (2x)	Hydraulic cylinder

INSTRUMENTATION

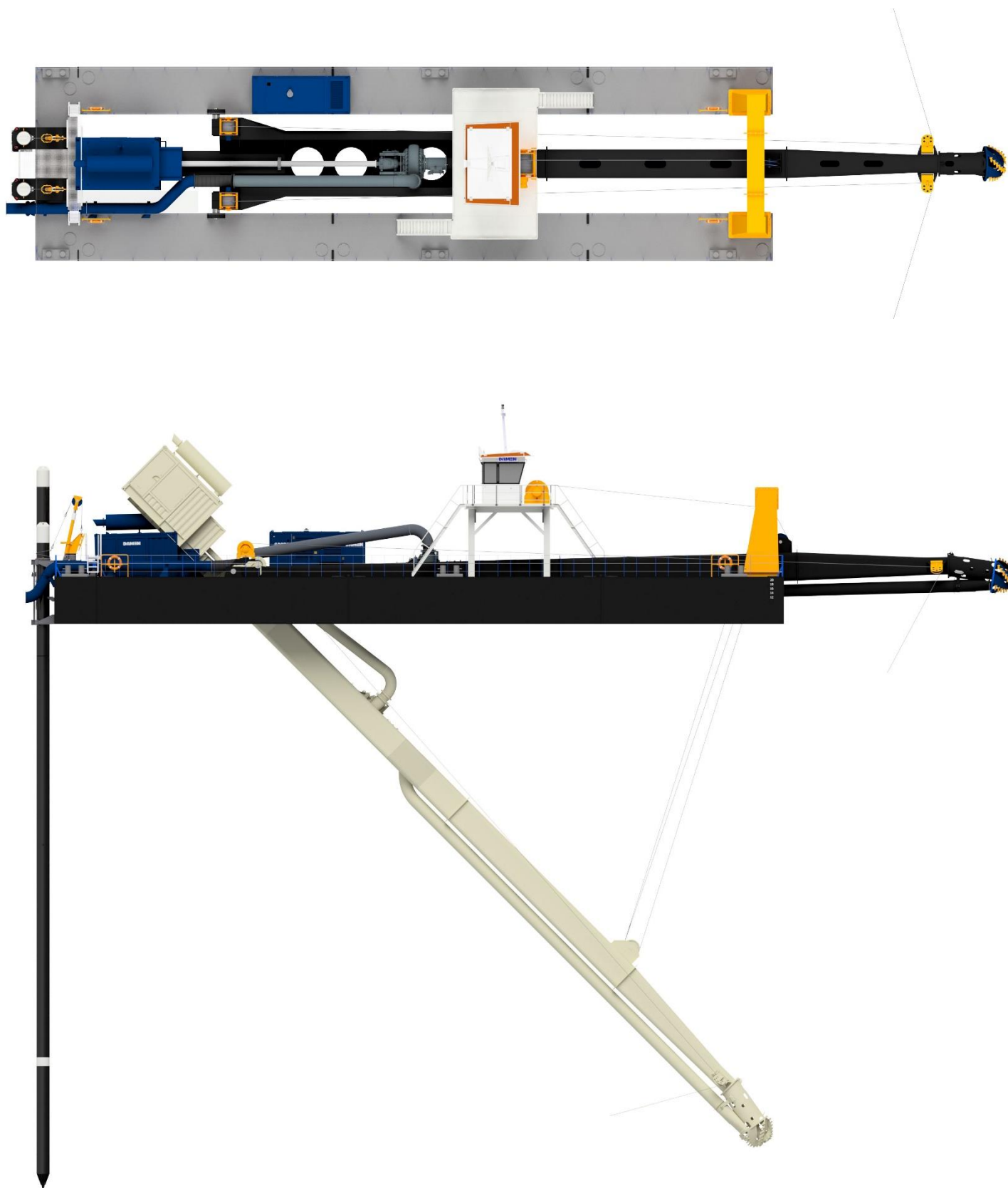
Dredging depth indicator	
Vacuum and pressure indication of dredge pump	

REMARKABLE FEATURES

Dismountable design
Submersible dredge pump for high mixture density
Heavy duty robust design
Simultaneous operation of all functions possible
Spacious ergonomic designed control cabin
One operator can control the entire dredger from the control cabin
Operators cabin with air conditioning and heating
Most components fit in containers



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