



# 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 <sup>3</sup> /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	Caterpillar 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 <sup>3</sup>
Hydraulic oil approx.	1.5 m <sup>3</sup>

### DECK MACHINERY

Ladder hoisting	Hydraulic winch, 270 kN, 0-15 m/min
Side wire winches (2x)	Hydraulic, 120 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
- Diesel direct driven
- 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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