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 m³/h

DREDGE INSTALLATION
Dredge pump type
OBPS045
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 installation
Caterpillar approx. 440 kW

Electrical installation
Driving cutter, winches and spuds
24 V DC and 230/400 V AC, 34 kVA

PRINCIPAL DIMENSIONS APPROX.
Length o.a. incl. ladder
46 m
Length over pontoons
26.50 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 m³
Hydraulic oil approx.
1.5 m³

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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