PICTURE OF SIMILAR VESSEL

GENERAL
Type: CSD 650 – 25 m
Basic functions: Capital mining and maintenance dredging

DREDGING FEATURES
Max. dredging depth: -25 m
Swing width: 70.9 m (at max. dredging depth)
Max. mixture capacity: 7,000 m³/h

DREDGE INSTALLATION
Submersible dredge pump type: BP6560LD
Inboard dredge pump type: BP6560MD
Diam. suction/discharge pipe: 650 mm
Spherical passage subm. pump: 330 mm
Spherical passage inboard pump: 300 mm
Cutter type: Crown model (with changeable pick points)
Cutter power: 700 kW
Cutter diameter: 2,100 mm

ENGINE INSTALLATION
Submersible pump generator: CAT C32, 1,080 kVA, 690 V AC
Inboard pump diesel: Caterpillar 3516C TA HD
Continuous power rating: 1,825 kW @ 1,600 rpm
Auxiliary diesel: Caterpillar 3512C TA
Prime power rating: 1,119 kW @ 1,600 rpm
Hydraulic installation: Driving cutter, winches and cylinders
Electrical installation: 24 V DC and 230/400 V AC, 63,3 kVA
Harbour generator set: 35 kVA, 230/400 V AC, 50 Hz

PRINCIPAL DIMENSIONS
Length o.a. incl. ladder: 70.00 m
Length over pontoons: 58.80 m
Beam: 10.50 m
Depth: 2.80 m
Draught: 1.65 m
Air draught: 8.40 m
Total weight: 645 ton

TANK CAPACITIES
Fuel oil approx.: 87,60 m³
Ballast water: 74,00 m³
Hydraulic oil: 4,00 m³

DECK MACHINERY
Ladder hoisting: Hydraulic winch, 270 kN, 0-15 m/min
Side wire winches (2x): Hydraulic, 270 kN, 0-20 m/min
Spuds (2x): Ø 914 mm, length 32 m
Spud hosting (2x): Hydraulic cylinder, stroke 2 m
Spud carriage positioning: Hydraulic cylinder, stroke 6 m

INSTRUMENTATION
Dredging depth indicator
Vacuum and pressure indication of dredge pump
Spud carriage position indicator

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
Large range of standard options are available to customize the CSD
Day accommodation with toilet and kitchen
Bureau Veritas Coastal classification