



CUTTER SUCTION DREDGER 650 –25 M

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 m ³ /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 m ³
Ballast water	74.00 m ³
Hydraulic oil	4.00 m ³

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

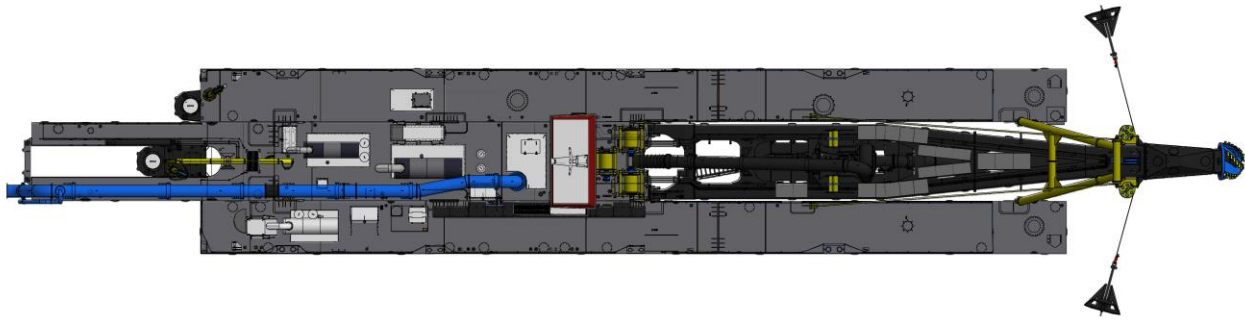
INSTRUMENTATION

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

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