



CUTTER SUCTION DREDGER 650 – 18 M

PICTURE OF SIMILAR VESSEL

GENERAL

Type	CSD 650 – 18 m
Basic functions	Capital mining and maintenance dredging

DREDGING FEATURES

Dredging depth	-18 m
Swing width	62.8 m (at max. dredging depth)
Typical mixture capacity	7,000 m ³ /h

DREDGE INSTALLATION

Dredge pump tube	BP6560MD
Diam. suction/discharge pipe	650/650 mm
Cutter type	Crown model (with changeable chisels)
Cutter power	700 kW
Spherical passage pump	300 mm
Cutter diameter	2,100 mm

ENGINE INSTALLATION

Dredge pump diesel	Caterpillar 3516C TA HD
Continuous power rating	1825 kW @ 1,600 rpm
Auxiliary diesel	Caterpillar 3512C TA
Prime power rating	1119 kW @ 1,600 rpm
Hydraulic installation	Driving cutter, winches and cylinders
Electrical installation	24 V DC and 230/400 V AC, 63,3 kVa

PRINCIPAL DIMENSIONS

Length o.a. incl. ladder	61.20 m
Length over pontoons	49.30 m
Beam	10.50 m
Draught	1.65 m
Air draught	8.40 m
Total weight	535 ton

TANK CAPACITIES

Fuel oil approx.	86,10 m ³
Ballast water	74.00 m ³
Hydraulic oil	4.00 m ³

DECK MACHINERY

Ladder winch	Hydraulic, 270 kN, 0-15 m/min
Swing winches (2x)	Hydraulic, 270 kN, 0-15 m/min
Spuds (2x)	Ø 914 mm, length 24 m
Spud hosting (2x)	Hydraulic cylinder, spud stroke 4.0 m

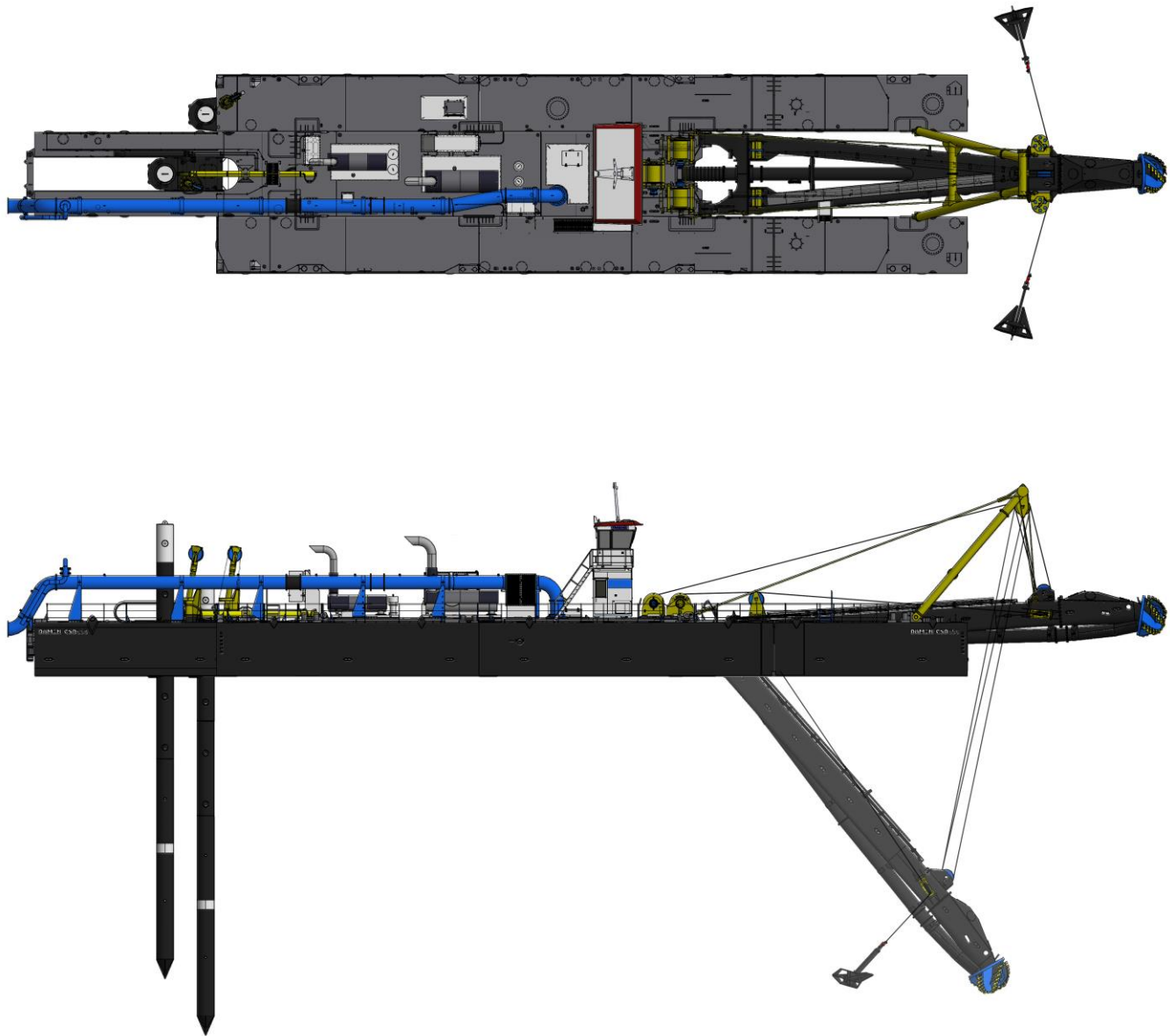
INSTRUMENTATION

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

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