Electric Cutter Suction Dredger 650 – 18 m



GENERAL Type Basic functions

DREDGING FEATURES Max. dredging depth Swing width Max. mixture capacity

DREDGE INSTALLATION

Dredge pump type Diameter suction/discharge pipe Spherical passage pump Cutter type

Cutter power Cutter diameter

DRIVE INSTALLATION

Dredge pump motor Power Auxiliary motor Prime power rating Hydraulic installation Electrical installation

Harbour generator set Jet water pump set

PRINCIPAL DIMENSIONS

Length o.a. incl. ladder Length over pontoons Beam Depth Draught Air draught Total weight ECSD650 – 18 m Capital mining and maintenance dredging

-18 m 62.8 m (at max. dredging depth) 7,000 m³/h

BP6560MD 650 mm 300 mm Crown model (with changeable pick points) 700 kW 2,100 mm

Electric motor 1,825 kW, 1,600 rpm Electric motor 1,120 kW, 1,600 rpm Driving cutter, winches and cylinders 690 / 230 / 400 V AC – 50 Hz and 24 V DC 35 kVA, 230/400 V AC, 50 Hz 230 kW, 1,200 m3/h, 5 bar

61.70 m 49.30 m 10.50 m 2.80 m 1.65 m 8.40 m 550 ton

TANK CAPACITIES

Ballast / Void approx. (fore)	2x 3	33.80
Ballast / Void approx. (aft)	2x 4	48.00
Hydraulic oil main tank	1x	3.50
Hydraulic oil spud drop tanks	2x	0.25
Fresh water tank	1x	3.30
Grey water tank	1x	3.30
Sewage treatment tank	1x	0.85
Fuel tank harbour generator set	1x	0.70

DECK MACHINERY

Ladder hoisting Side wire winches (2x) Spuds (2x) Spud hosting (2x) Spud carriage positioning Jet water monitor Electric deck crane

INSTRUMENTATION

Dredging depth indicator Vacuum and pressure indication of dredge pump Production measurement Dredge visualization Semi dredge automatization Spud carriage position indicator

REMARKABLE FEATURES

Fully electric dredger with shore supply connection 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

Hydraulic winch, 270 kN, 0-15 m/min Hydraulic, 270 kN, 0-20 m/min Ø 914 mm, length 24 m Hydraulic cylinder, stroke 2 m Hydraulic cylinder, stroke 6 m Hydraulic operated

m³

m³

m³

m³

m³

m³

m³

m³



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