Deep (Cutter) Suction Dredger 600



GENERAL

The EDCSD600 is a fully electrically driven dredger which is powered via an external power source. The dredger can be delivered as cutter suction or plain suction dredger configuration. A combination of both is also possible where the dredger is suitable for quick conversion to the desired configuration.

Type Basic functions

EDCSD 600

Mining, capital and maintenance dredging Cutter configuration: Dredging compacted soils and where precise operation is required. Plain suction configuration: Sand mining operations where large dredging depths are required.

Cutter configuration Max. cutter depth

Plain suction configuration Max. suction depth

DREDGING FEATURES

DREDGE INSTALLATION

Dredge pump type Diam. suction/discharge pipe Spherical passage pump

SUCTION EQUIPMENT

Cutter configuration Cutter type Cutter power Cutter diameter Plain suction configuration Plain suction head Jet water installation

DRIVE INSTALLATION

Dredge pump motor Continuous power Hydraulic installation Electrical installation

Plain suction configuration Jet water pump

-25 m

-40 m

Damen submerged SDP600MP 600 mm 290 mm

Crown model (changeable cutter teeth) 110 kW 1,625 mm

Basket with jet water nozzles 1,100 m³/h @ 8 bar

Electric motor 1,425 kW Driving cutter and spud hoisting Driving dredge pump and winches 24 V DC and 230/400/690 V AC

Electric 290 kW

PRINCIPAL DIMENSIONS

Length over pontoons Beam Depth Draught Air draught **Cutter configuration** Length o.a. incl. cutter ladder Total weight **Plain suction configuration** Length o.a. incl. suction pipe Total weight

DECK MACHINERY

Ladder hoisting **Cutter configuration** Side wire winches (2x) Spuds (2x) Spud hosting (2x) **Plain suction configuration** Manoeuvring winches (4x) Suction pipe winch (1x)

INSTRUMENTATION Dredging depth indicator

Vacuum and pressure indication of dredge pump

REMARKABLE FEATURES

Fully electrically driven, power via external power source (power source excluded) Submersible dredge pump for high mixture density Configurable as cutter or plain suction dredger Dismountable design Most components fit in containers (lower transport cost) Spacious ergonomic designed control cabin One operator can control the entire dredger from the control cabin Operators cabin with air conditioning and heating Manual deck crane

Approx. 34 m 9.00 m 2.50 m 1.60 m 8.10 m

Approx 45 m 230 ton

Approx 55 m 240 ton

Electric winch, 120 kN, 0-15 m/min

Electric winch, 80 kN, 0-15 m/min Ø 610 mm, length 30 m Hydraulic cylinder

Electric winch, 80 kN, 0-15 m/min Electric winch, 80 kN, 0-15 m/min





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