

SEAWAVES

DEVELOPMENT SERVICES, INC

CUTTER SUCTION DREDGER



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CUTTER SUCTION DREDGER CV111



GENERAL

Serial Number : CVIII 350-15

Type CSD

DREDGING FEATURES

Dredging depth 18 m

Overall length : **24-36 m**

Overall width : 7.5 m

Overall height : 5.5 m

Draft at centre 1.5m

DREDGE INSTALLATION

Dredge pump type Cummings

Cutter type 5-1150 (with changeable chisels)

Cutter power 55 kW

ENGINE INSTALLATION

Cummins Marine Diesel Engine

Hydraulic System

Marine Crane

DECK MACHINERY

Ladder winch hydraulic, 50 kN, 0-15 m/min

Swing winches 4x) hydraulic, 50 kN, 0-15 m/min

Spuds (2x) □ 406.4 mm, length 11.50 m

Spud hoisting (2x) Hydraulic cylinder, stroke 1250 mm

INSTRUMENTATION

□ Dredging depth indicator

□ Vacuum and pressure indication of dredge pump

REMARKABLE STANDARD FEATURES

□ Dismountable design

□ Heavy duty robust design

□ Simultaneous operation of all functions possible

□ Spacious ergonomic designed control cabin and engine room

OWNER

Build at: SEAWAVES Dredging Equipment, Hamilton
Ontario Canada

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STORMWATER & MARINE CONSTRUCTION

528 UPPER SHERMAN AVE. HAMILTON ON L8V3M1

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FEATURES

- The dredger consists of 6 dismantable pontoons
- Removable spuds
- Inboard dredge pump
- Diesel driven pump
- Gearbox between engine and dredge pump
- Auxiliary diesel engine with alternator to drive hydraulic pumps
- Hydraulic driven cutter
- Cutter head with dismantable teeth
- Inspection piece in front of dredge pump
- Hydraulic operated winches
- Spuds are operated by to hydraulic cylinders

OPERATION CABIN

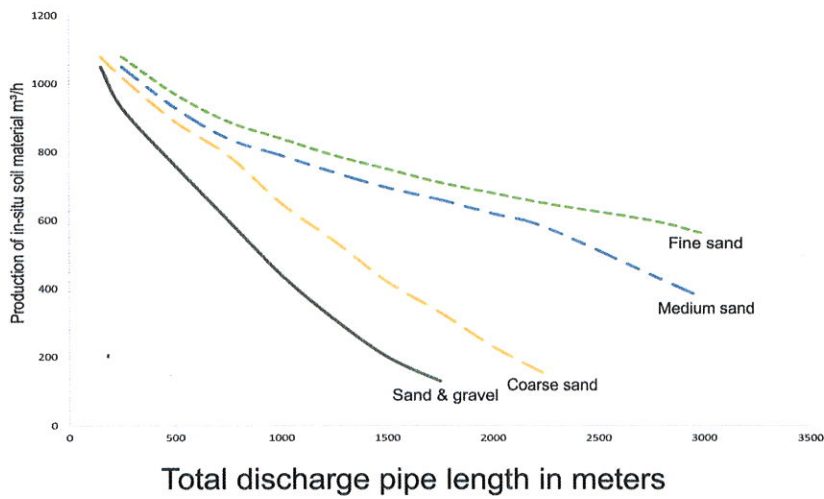
- Fitted on the main pontoon
- Complete with steering and control block for cutter head and winch plant hydraulic systems
- Electro technical control instruments for the pump motors
- The operators cabin controls furthermore all starting
- 1 Vacuum gauge for the dredge pump
- 1 Pressure gauge for the gland pump
- 1 Operation / hours meter
- 1 Digital depth measurement
- 1 Navigation and survey system

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Total Discharge Pipe Length, m

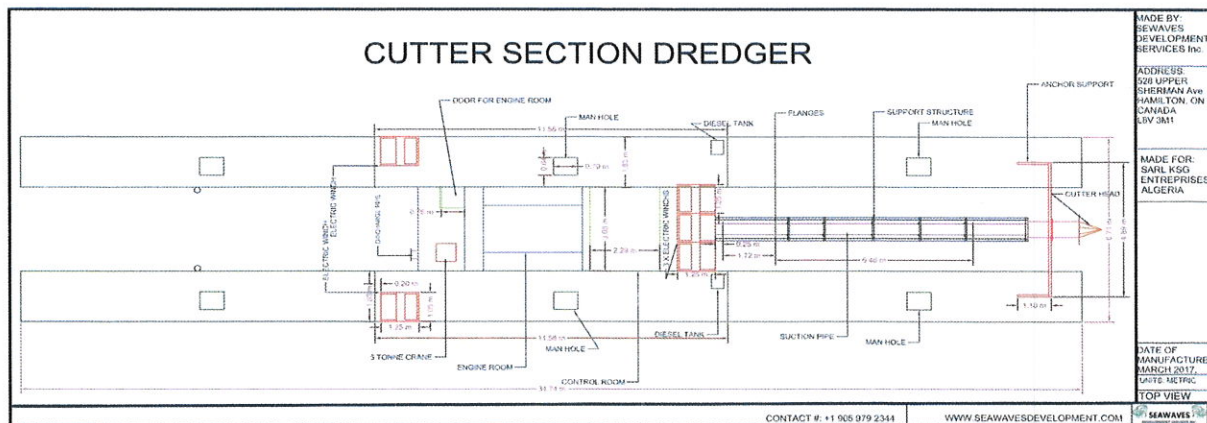
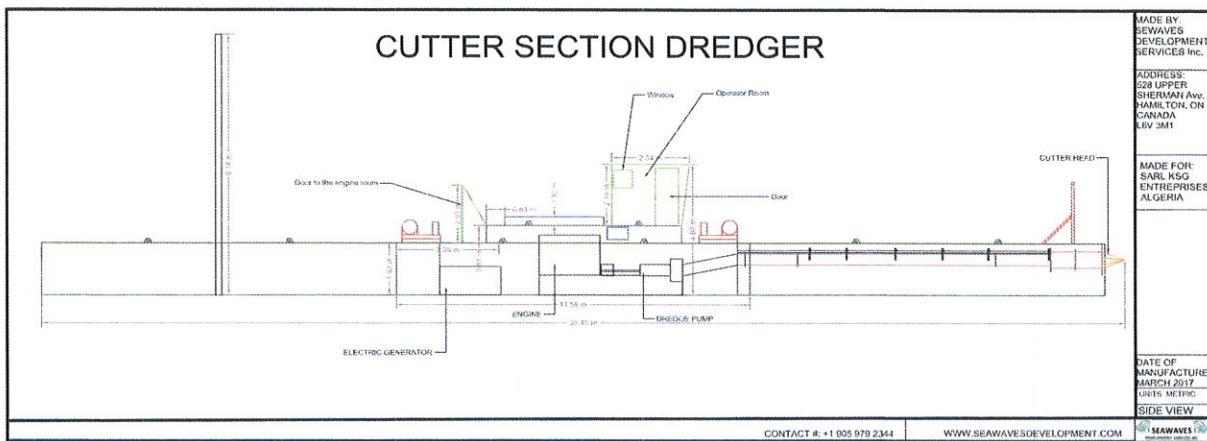
MATERIAL	GRAIN SIZE	IN-SITU DENSITY	REMARKS
Fine sand	d50 = 100 µm	$\rho = 1.90 \text{ t/m}^3$	No cutter limitations
Medium sand	d50 = 235 µm	$\rho = 1.95 \text{ t/m}^3$	Geodetic height: 4 m
Coarse sand	d50 = 440 µm	$\rho = 2.00 \text{ t/m}^3$	Dredging depth: 8 m
Sand & gravel	d50 = 1300 µm	$\rho = 2.20 \text{ t/m}^3$	Discharge pipe diameter: 450 mm

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