CSD 650



Specifications

Main Particulars

Length overall	47 m
Length over deck	35 m
Breadth, molded	10,5 m
Depth main pontoon	2,9 m
Design draught	1,98 m
Dredging depth min/max	3 / 18 m
Suction pipe inner diameter	700 mm
Discharge pipe inner dia.	650 mm
Total weight	420 ton
Total installed power	2914 kW

Dredging Components

Cutter head	VOSTA T1
Cutter power	450 kW
Dredge pump	VOSTA LMG600-1625
Dredge Pump Power	1864 kW
Side winch	2 pcs
Pulling force max.	240 kN
Spud system	
Working and holding spud	_

Deck Equipment

Deck crane 7 ton

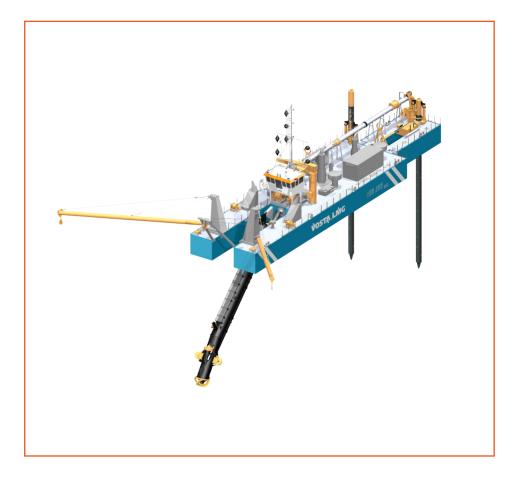
Electrical System

Main generator	(PF0,8) 64 ekW
Ship´s main voltage	400 V
Ship's main frequency	50 Hz

Main Drives

Dieserengines	
Dredge pump engine	1864 kW
Auxiliary engine	954 kW

The standard dismountable cutter dredger CSD 650 is well equipped to operate in a wide range of coastal zones with several materials up to compact sand clay. It is specialized for maintenance and land reclamation work also in shallow water areas. The dredger is optimized for dredging compact soil.



Options

Spud tilting system
Anchor Booms
Swivel bend
Dredge monitoring system
Production measuring system
Harbor set
Spud carrier
Mooring equipment
Propulsion system
Accommodation, 4 crew
Hydrophore
Lavatory
Classification inland waters
Classification coastal waters

Dedicated functions*:

Lowest price per cubic meter at a wide range of jobs

Optimization of shallow water operation

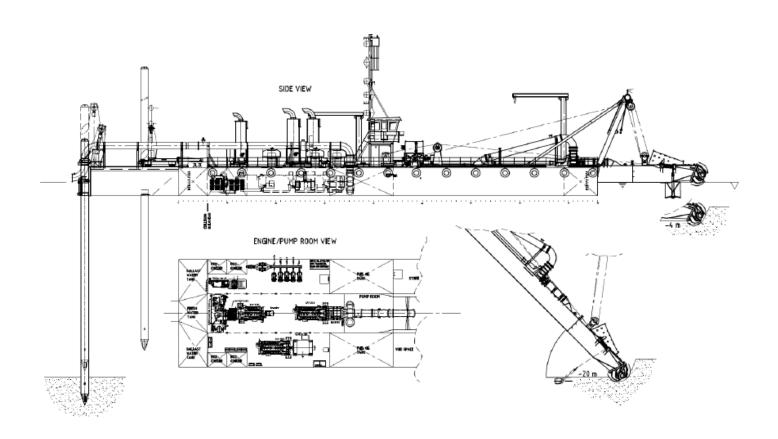
Minimization of vibration leve

Maximum of allover operation efficiency due to:

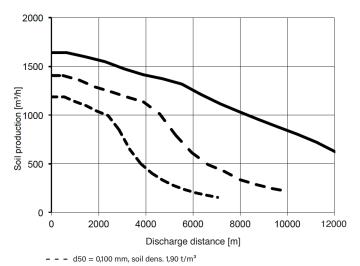
- Optimization of anchor/spud maneuver
- Operation with high efficient cutter head with special patented cutter teeth of highest wear resistance
- Operation with high efficiency dredge pump with optimized suction performance
- Operation with approved dredge control/monitoring system, automation of dredging process
- *) to get all functions optional equipment required







Production Diagram CSD 650



Estimated dredge pump production diagram

Dredge pump type	VL 600-1625
Pump shaft power	1864 kW
Nominal speed	410 rpm
Suction pipe diameter	700 mm
Discharge pipe diameter	450 mm
Pump elevation	0 m
Pipe elevation	4 m
Dredging depth	18 m
Water density	1025 kg/m³
Density solids	2650 kg/m³
Max. soil concentration	30 %

Remarks

- production curves for reference only
- free flowing sand conditions considered

--- d50 = 0,235 mm, soil dens. 1,95 t/m³ --- d50 = 0,440 mm, soil dens. 2,00 t/m³

production limitation due to soil/cutterhead not considered