

CSD 750

Specifications

Main Particulars

Length overall	76,7 m
Length over deck	66,2 m
Breadth, molded	15,2 m
Depth main pontoon	4,3 m
Design draught	3,2 m
Dredging depth min/max	4 / 22 m
Suction pipe inner diameter	750 mm
Discharge pipe inner dia.	750 mm
Total weight	1955 ton
Total installed power	9300 kW

Dredging Components

Cutter head	VOSTA T2
Cutter power	1000 kW
Under Water dredge pump	VOSTA LMG750-1627
U.W. Dredge pump power	1830 kW
Inboard dredge pump	2xVOSTALMG 750-1627
I.B. Dredge pump power	2350 kW
Side winch	2 pcs
Pulling force max.	400 kN
Ladder hoisting winch	1 pcs
Pulling force max.	400 kN

Deck Equipment

Deck crane	2 x 8 ton
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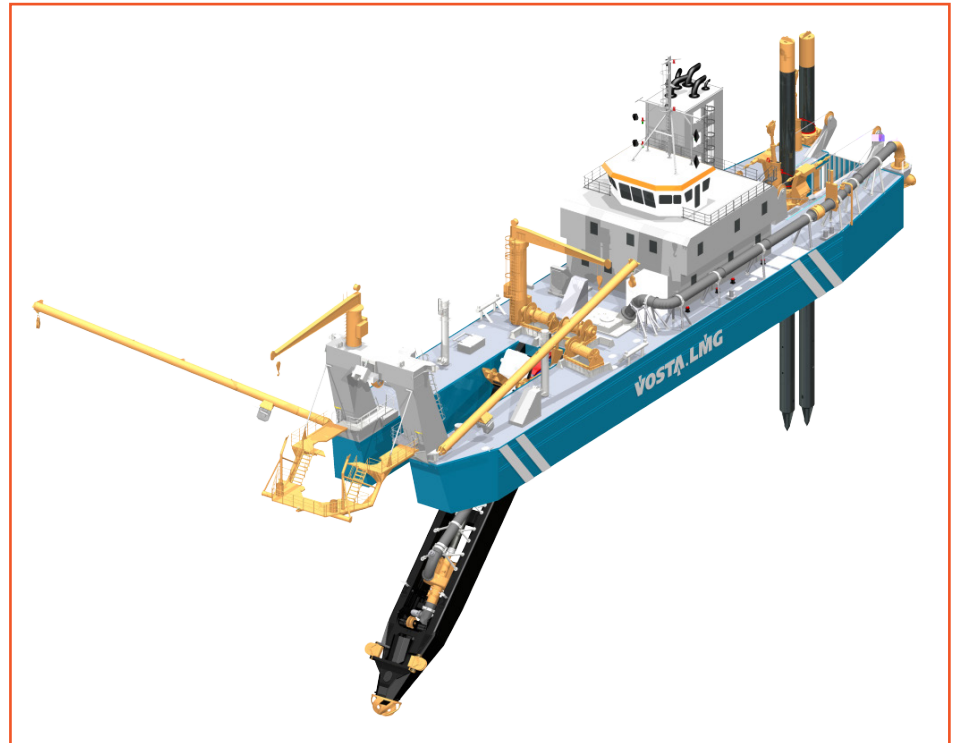
Electrical System

Main generator	(PF0,8) 300 ekW
Ship's main voltage	3x400 V
Ship's main frequency	50 Hz

Main Drives

Diesel engines	
U.W. Dredge pump engine	2100 kW
I.B. 1 Dredge pump engine	2350 kW
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Auxiliary engine	1800 kW
Harbour generator	700 kW

The standard cutter dredger CSD 750 is well equipped to operate in a wide range of coastal zones with several materials up to compact soils. It is specialized for maintenance and land reclamation work also in shallow water areas. The dredger is optimized for dredging compact sand, clay, weak rock.



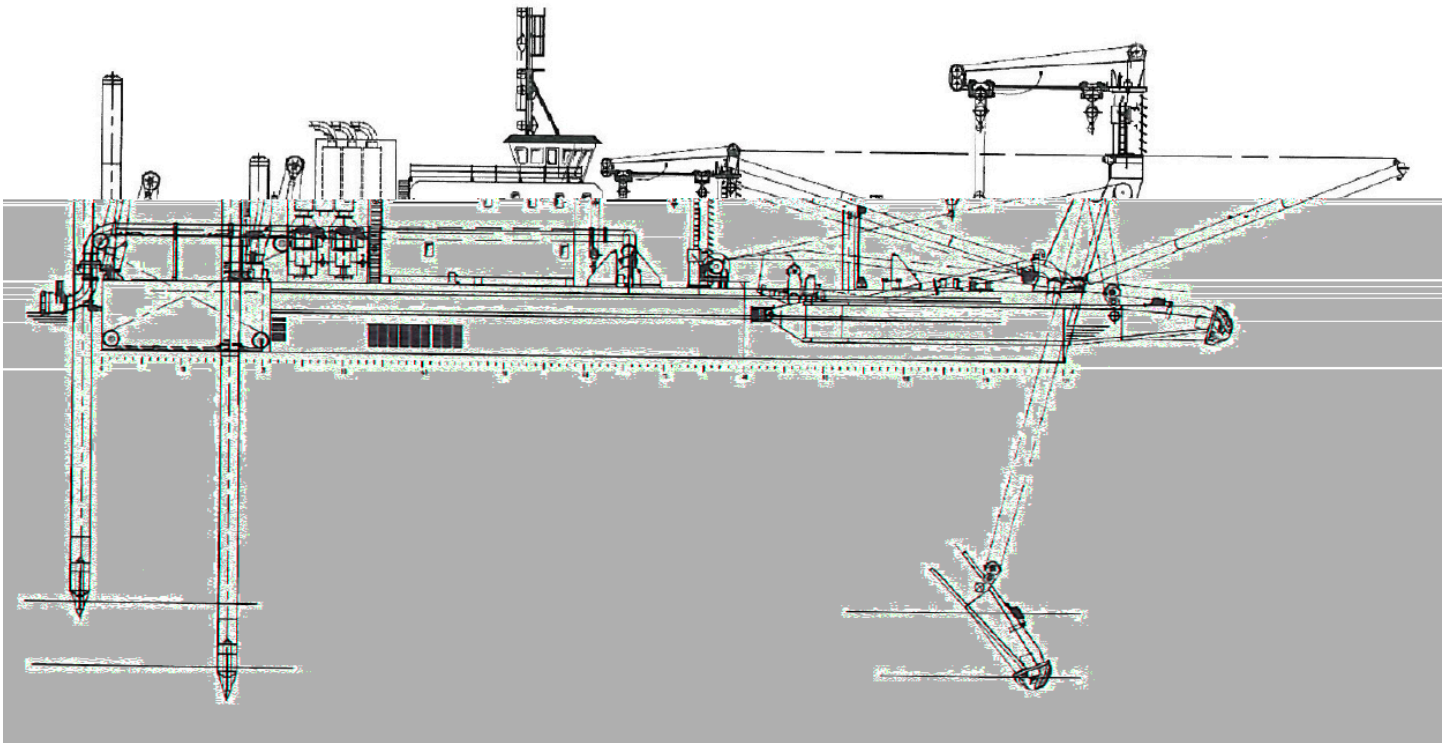
Options

Spud tilting system
Anchor Booms
Swivel bend
Dredge monitoring system
Production measuring system
Harbor set
Mooring equipment
Additional gland pump
Additional flushing pump
Barge loading system
Accommodation, 14 crew
Towing hook
HFO 380STC
Cutter platform
Anti corrosion system I.C.S.
Container pods
Double walled dredge pump inboard
Jet water for cutter cleaning
Propulsion system

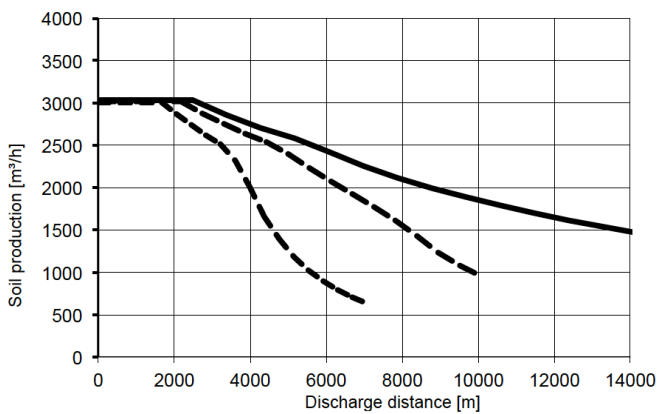
Dedicated functions*:

Lowest price per cubic meter at a wide range of jobs
Optimization of shallow water operation
Minimization of vibration level
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 750



- - - d50 = 0,100 mm, soil dens. 1,90 t/m³
- - - d50 = 0,235 mm, soil dens. 1,95 t/m³
- d50 = 0,440 mm, soil dens. 2,00 t/m³

Remarks

- production curves for reference only
- free flowing sand conditions considered
- production limitation due to soil/cutterhead not considered

Estimated dredge pump production diagram

Dredge pump type	2 x VL 750-1627
uw pump shaft power	1830 kW
uw pump nominal speed	365 rpm
ib pump shaft power	2350 kW
ib pump nominal speed	415 rpm
Suction pipe diameter	750 mm
Discharge pipe diameter	750
Pipe elevation	4 m
Dredging depth	22 m
Water density	1025 kg/m ³
Density solids	2650 kg/m ³