

# CSD 750

## Specifications

### Main Particulars

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

### Dredging Components

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

### Deck Equipment

Deck crane	<b>2 x 8 ton</b>
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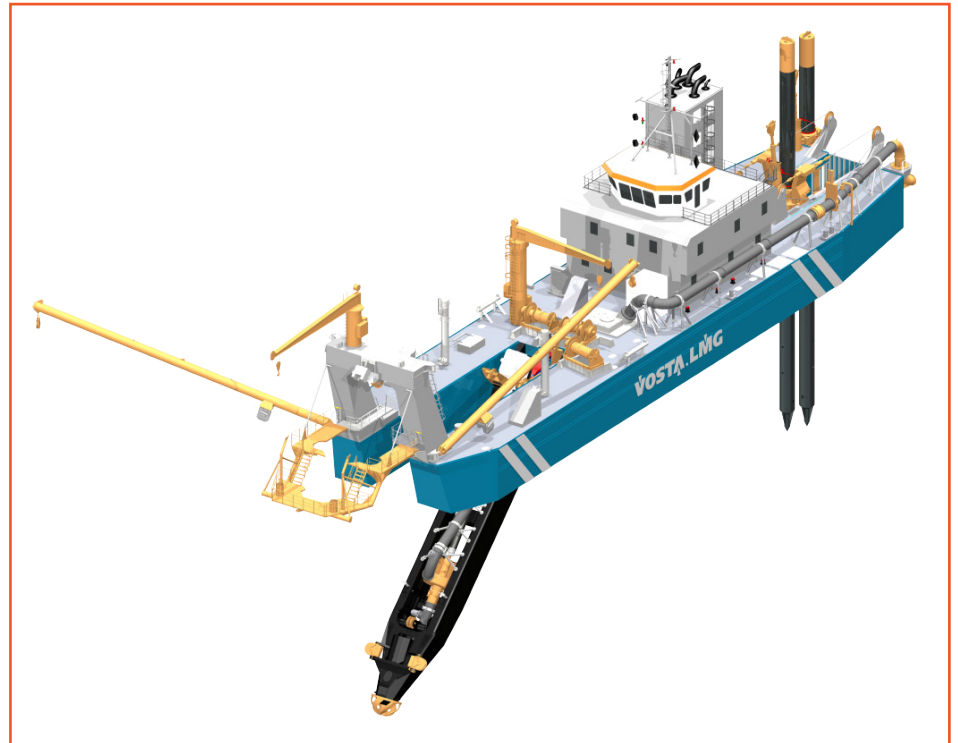
### Electrical System

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

### Main Drives

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

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.



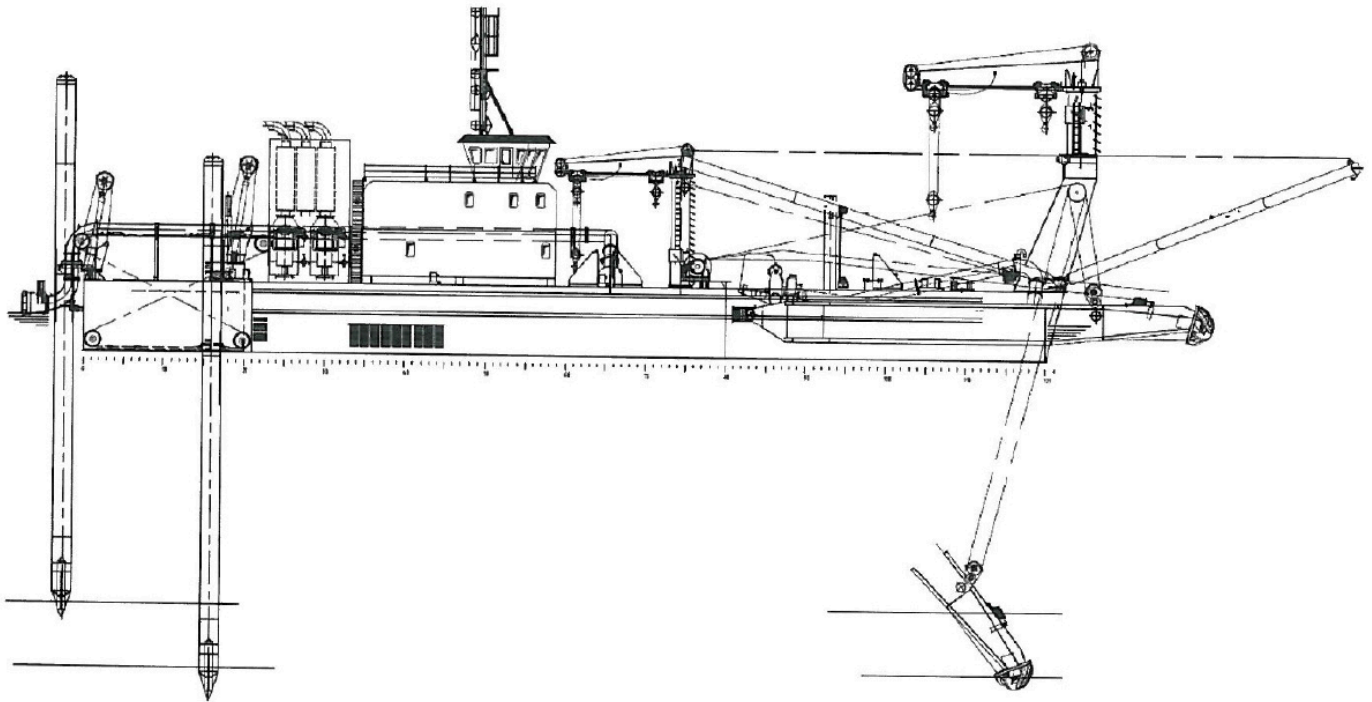
### Options

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

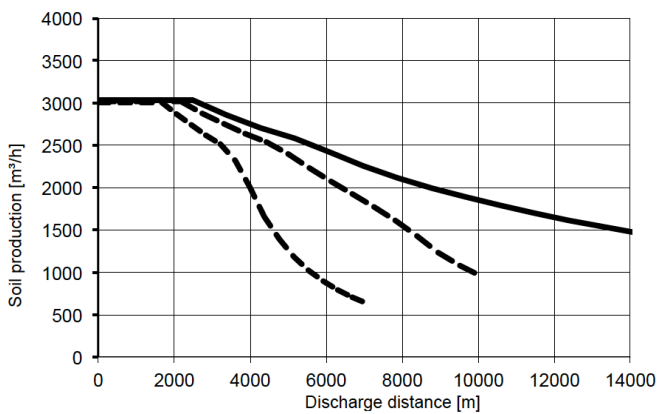
### Dedicated functions\*:

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:
<ul style="list-style-type: none"> <li>Optimization of anchor/spud maneuver</li> <li>Operation with high efficient cutter head with special patented cutter teeth of highest wear resistance</li> <li>Operation with high efficiency dredge pump with optimized suction performance</li> <li>Operation with approved dredge control/monitoring system, automation of dredging process</li> </ul>

\*) to get all functions optional equipment required



## Production Diagram CSD 750



- - - d50 = 0,100 mm, soil dens. 1,90 t/m<sup>3</sup>
- - - d50 = 0,235 mm, soil dens. 1,95 t/m<sup>3</sup>
- d50 = 0,440 mm, soil dens. 2,00 t/m<sup>3</sup>

### 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 <sup>3</sup>
Density solids	2650 kg/m <sup>3</sup>