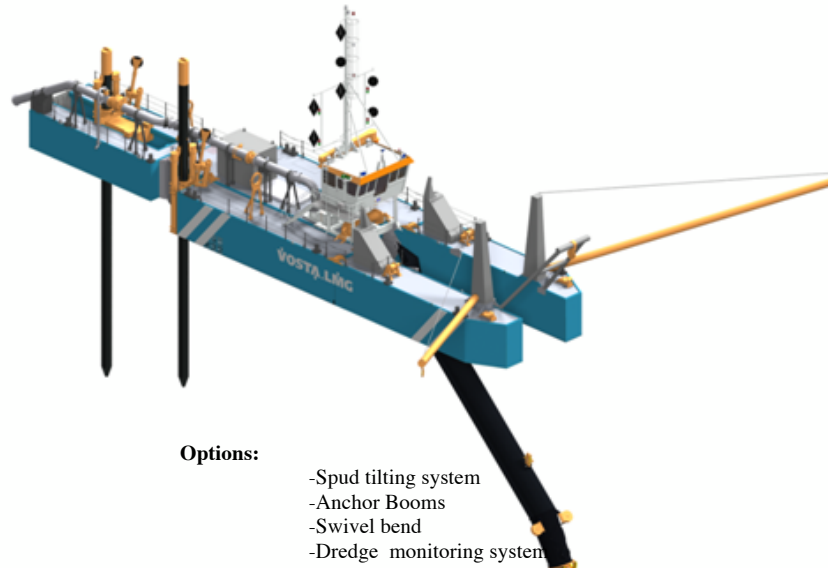


DATA SHEET CSD 500



Main Particulars

Length overall	38	m
Length over deck	29	m
Breadth, molded	8,5	m
Depth main pontoon	2,75	m
Design draught	1,6	m
Dredging depth min./max.	2 / 15	m
Suction pipe inner diameter	550	mm
Discharge pipe inner dia.	500	mm
Total weight	235	ton
Total installed power	1274	kW

Dredging Components

Cutter head	VOSTA LMG	TSC 04
Cutter Power	175	kW
Dredge pump	VOSTA LMG	500-1350
Dredge Pump Power	954	kW
Side winch	2	pcs
Pulling force max.	100	kN
Ladder hoisting winch	1	pcs
Pulling force max.	100	kN
Spud system		
Working and holding spud		

Deck Equipment

Deck crane	5	ton
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Electrical System

Main generator (PF0,8)	24	ekW
Ship's main voltage	400	V
Ship's main frequency	50	Hz

Main Drives

Diesel engines		
Dredge pump engine	954	kW
Auxiliary engine	320	kW

The standard dismountable cutter dredger CSD 500 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 soils.

Dedicated functions':

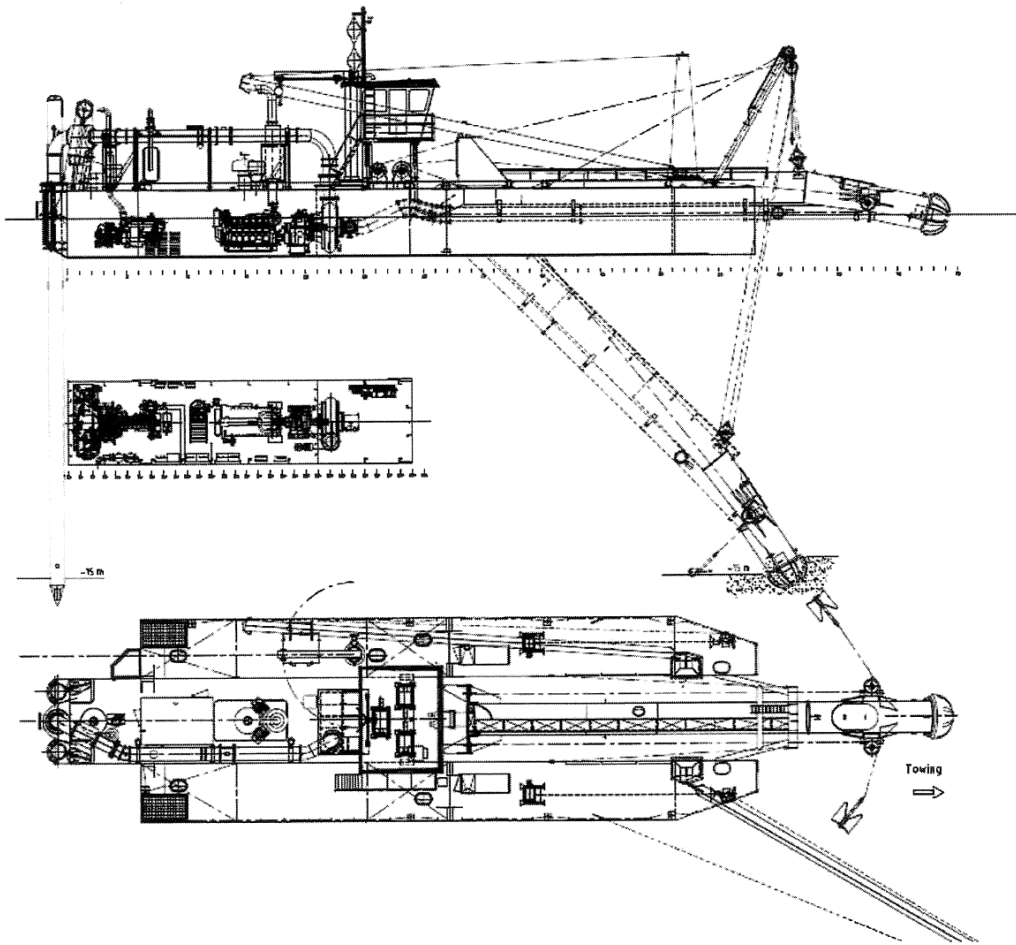
- Lowest price per cubic meter at a wide range of jobs
- Optimization of shallow water operation
- Minimization of vibration level
- Maximum of all over operation efficiency due to:
 - Optimization of anchor/spud maneuver
 - Operation with high efficient cutter head with special patented cutter teeth 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

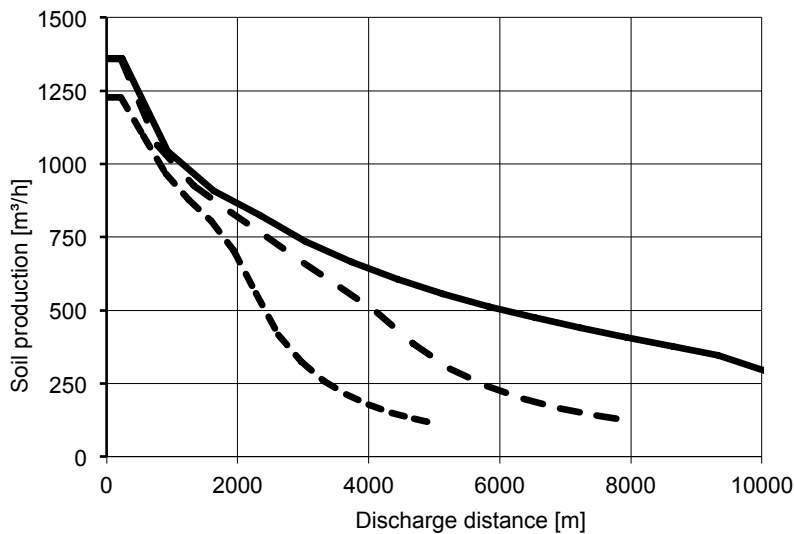
Options:

- 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

DATA SHEET CSD 500



VOSTALMG Dredging Technology



Estimated dredge pump production diagram VL CSD500

dredge pump type:	VL 500-1350
pump shaft power:	954 kW
nominal speed:	465 rpm
suction pipe dia.:	550 mm
discharge pipe dia.:	500 mm
pump elevation:	0 m
pipe elevation:	4 m
dredging depth:	15 m
water density:	1025 kg/m³
density solids:	2650 kg/m³

Remarks

- production curves for reference only
- free flowing sand conditions considered
- production limitation due to soil/cutterhead not considered
- production based on effective cutting hours

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