

DEKKER DREDGERS



CSD700 / 28"

The highest possible efficiency and straight forward control.
Our Cutter Suction Dredgers are robust, effective and equipped with our C-star MaPoS_DGPS system connected to C-star OMS for ease of operation.



The Dekker Cutter Suction Dredgers are used for capital dredging and sand mining. The control room is ergonomic and spacious built and is equipped with air conditioning and heating. The cutter dredgers are robust, effective and straight forward to control.

Overall

Length over all	55,5m
Breath	12.80 m
Depth	8.90 m
Draught loaded	2.50 m
Light weight ship	approx 600 ton

Dredging installation

Inner diameter suction pipe	750mm
Inner diameter discharge pipe	700mm
Discharge distance	3000 m
Dredging depth	20.00 m at 45 degrees
Dredging width , 35 degrees swinging angle @ max depth	57,50 m
Output dredgepump / capacity 33% sand	9.000m3/hour

Tank capacities

Fuel	120.000 liters
Ballast water	50.000 liters

Dredge pump

Main pump	2 X DP 700 - 28"
Separate pump room	Yes

Engines

Total installed power	4723 kW
Main Engine	Caterpillar 3516 C & 3516B genset
Aux Engine	Caterpillar 3512 C

Generator

	250KVA
Main generator	2x Caterpillar C7.1 marine 125kVA
Harbour generator	Caterpillar C2.2 marine Max. 27kVA

Cutter

Type	Crown or equivalent (with changable chisels)
Wearing parts	Chisels replaceable
RPM	0-35
Power	600 KW

Spuds

Diameter	850 mm
Length	26.0 m
System	Hydraulic spud tilting

Winches

Anchor winch	280kN
Ladder winch	280kN

Deck Crane

Deck crane for maintenance of dredgepump, engine and other components with electric chain hoist

Class

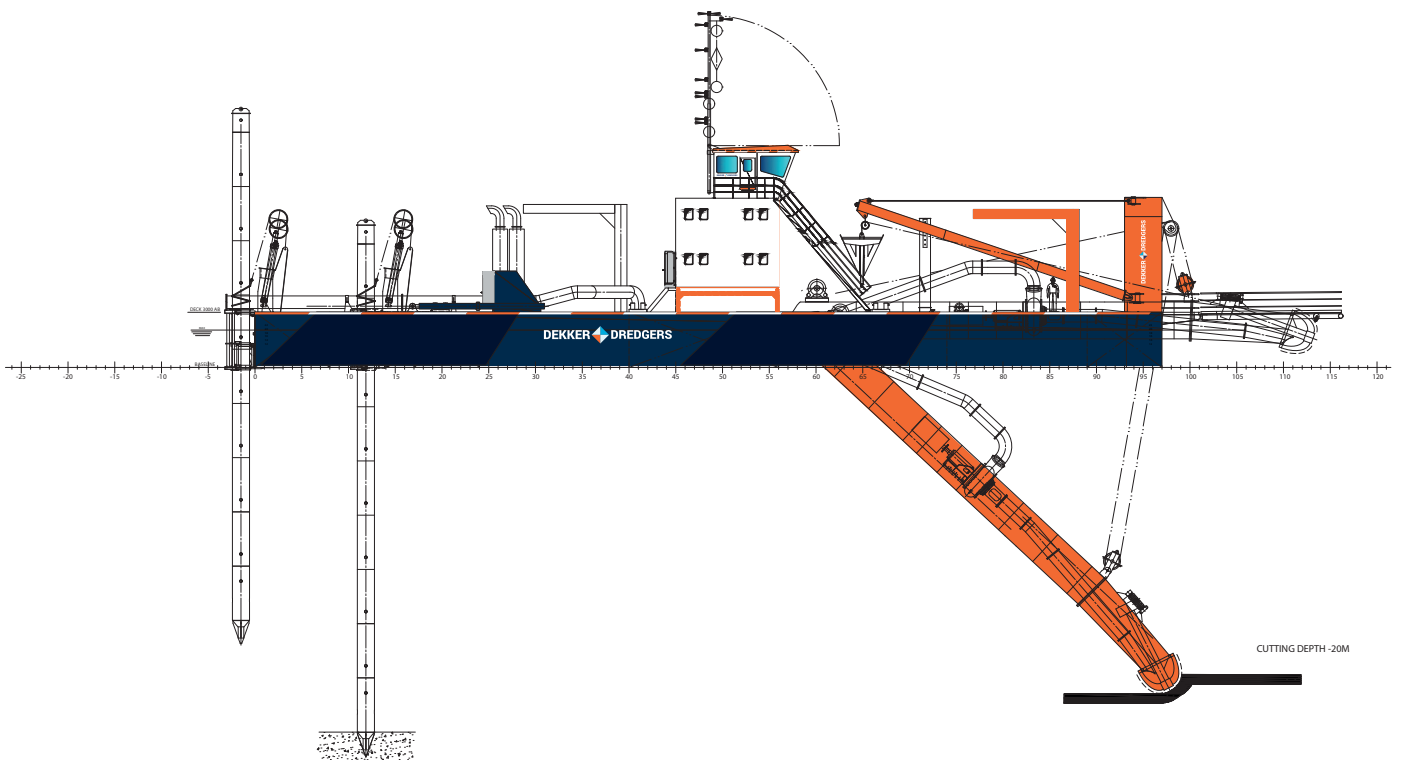
Lloyds register	✱ 100 A1 Dredger
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Spud carrier

included /
5 meter stroke
Integrated in hull construction

Instrumentations

Dredging depth indicator	Yes
Vacuum and pressure indication of dredgepump	Yes
Engine control panel (DCU)	Yes
Velocity measurement	Yes
Non nuclear density meter STI	Yes



Other features

- C-Star Survey monitoring system
MAPOS_DGPS
- Harbour generator
- Day accommodations
- Communication package
- Production measurements
- Discharge valve and vacuum-relief valve
- Full HSE package
- Cabin ergonomic design equipped with air conditioning
- Easy to control, low maintenance
- Technical service package
- Operational service package
- Accommodation 5-10 men

Optional

- Combined or interchangeable cutterhead and waterjet system
- Manual to fully automation, remote control
- Auxiliary equipment such as multicats, boosters, pipelines etc.
- Dredge Automation package
- Training and consultancy
- Spare program



All our dredgers are equipped with the The MaPoS_DGPS system

– short for Marine Position Differential Global Positioning System – is an extraction control system developed by Dekker Dredgers for the efficient extraction of deposits and dredging areas. Our aim: optimal exploitation of extraction areas, the reduction of extraction losses, optimisation of extraction processes, and the minimisation of slope failure risks.

Marine Position Differential Global Positioning System

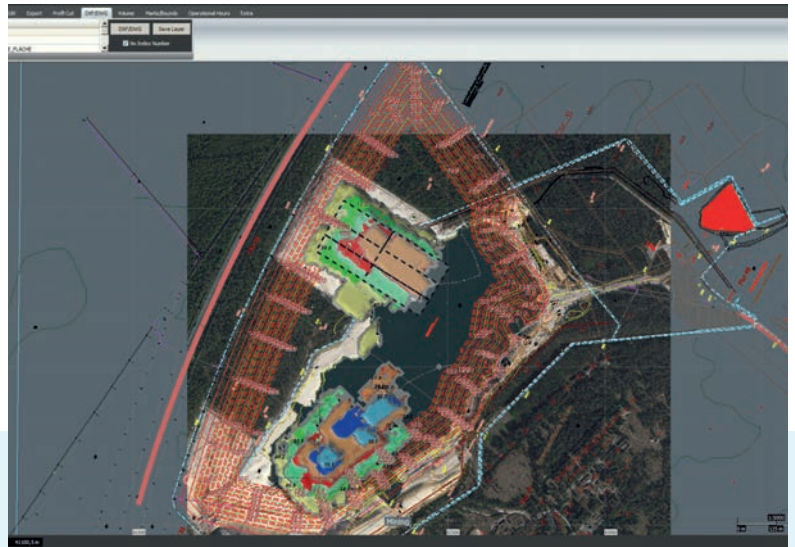
Your benefits: precise positioning of the dredger and the excavation apparatus, direct visualisation of all information during the dredging process, and simultaneous documentation of all data using the same software. The MaPoS system can be used with any kind of dredger and includes the following components:

- a robust industrial PC with the newest technology installed on board the dredger;
- a touchscreen monitor (no keyboard or mouse necessary for operation);
- dual GPS receiver with integrated digital compass;
- IPC-electronics, sensors (e.g. echo sounders, depth sensor);
- dredger and office analysis software





Because of its modular structure it can be adapted to the respective operating conditions and augmented by numerous elements:



- slope sonar, echo sounders, 360° sonar scanners;
- radio wave gauge;
- direct data transfer from the dredger to the computer in the operation management office;
- device for recording operating data (recording of machine data, such as power consumption, speed of the bucket wheel, flow rate, etc.) ;
- remote visualisation of the extraction process;
- UPS



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