

# 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	60 m
Breadth	9.50 m
Depth	6.70 m
Draught loaded	2.00 m
Light weight ship	approx 500 ton

### Dredging installation

Inner diameter suction pipe	750mm
Inner diameter discharge pipe	700mm
Discharge distance	2000 m
Dredging depth	17.00 m at 45 degrees
Dredging width , 35 degrees swinging angle @ Max. depth	55.00 m
Output dredgepump	9000m <sup>3</sup> /hour

### Tank capacities

Fuel	80.000 liters
Ballast water	40.000 liters

### Dredge pump

WARMAN© WEIR Mineral Group	GHPP 700 - 28"
Separate pump room	Yes

### Engines

Total installed power	3955 kW
Main Engine	ABC 12 DZC 12 Cylinder V-Engine @ 1000RPM
Aux Engine	Caterpillar 3512 C 955 kW @ 1600RPM

### Generator

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

### Cutter

ESCO© WEIR Mineral Group	Type- Crown or equivalent (with changable chisels)
Wearing parts	GeoVor© (Chisels replaceable)
RPM	0-35
Power	600 kW

### Spuds

Diameter	850 mm
Length	22.0 m
System	Hydraulic spud tilting

### Winches

Anchor winch	250kN
Ladder winch	250kN

### Deck Crane

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

### Class

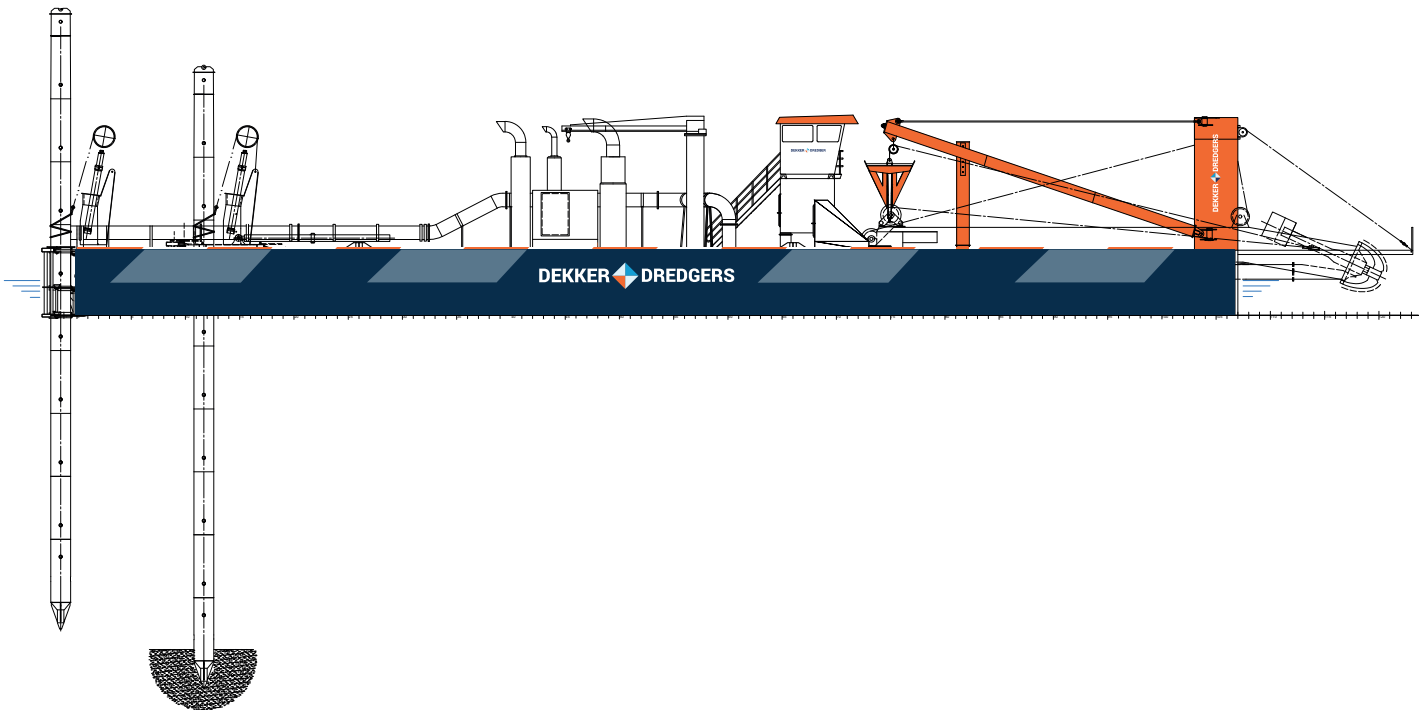
Lloyds register ✕ 100 A1 Dredger

### Spud carrier

included  
5 meter stroke  
Installed aft dredger

### 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

### 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
- Accommodation 5-10 men
- 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





Real time visualization of efficiency, productivity for office monitoring and total operational management



- 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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