

DEKKER DREDGERS



CSD600 / 24"

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 480 ton

Dredging installation

Inner diameter suction pipe	650mm
Inner diameter discharge pipe	600mm
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 / capacity 33% sand	7000m ³ /hour

Tank capacities

Fuel	80.000 liters
Ballast water	40.000 liters

Dredge pump

Main pump	DP 600 - 24"
Separate pump room	Yes

Engines

Total installed power	2780 kW
Main Engine	Caterpillar 3516 C 1825 kW @ 1600RPM
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

Type	Crown or equivalent (with changable chisels)
Wearing parts	Chisels replaceable
RPM	0-35
Power	400 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

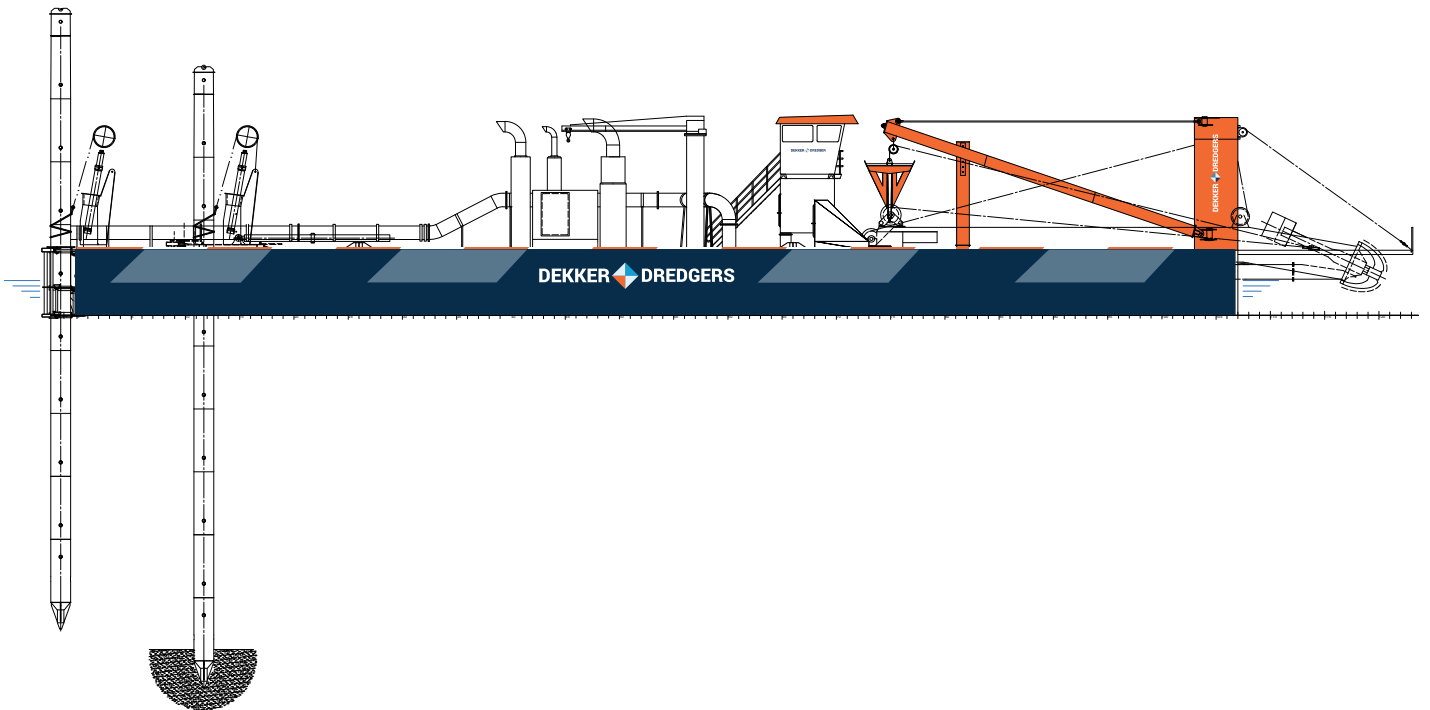
Lloyds register \star 100 A1 Dredger

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

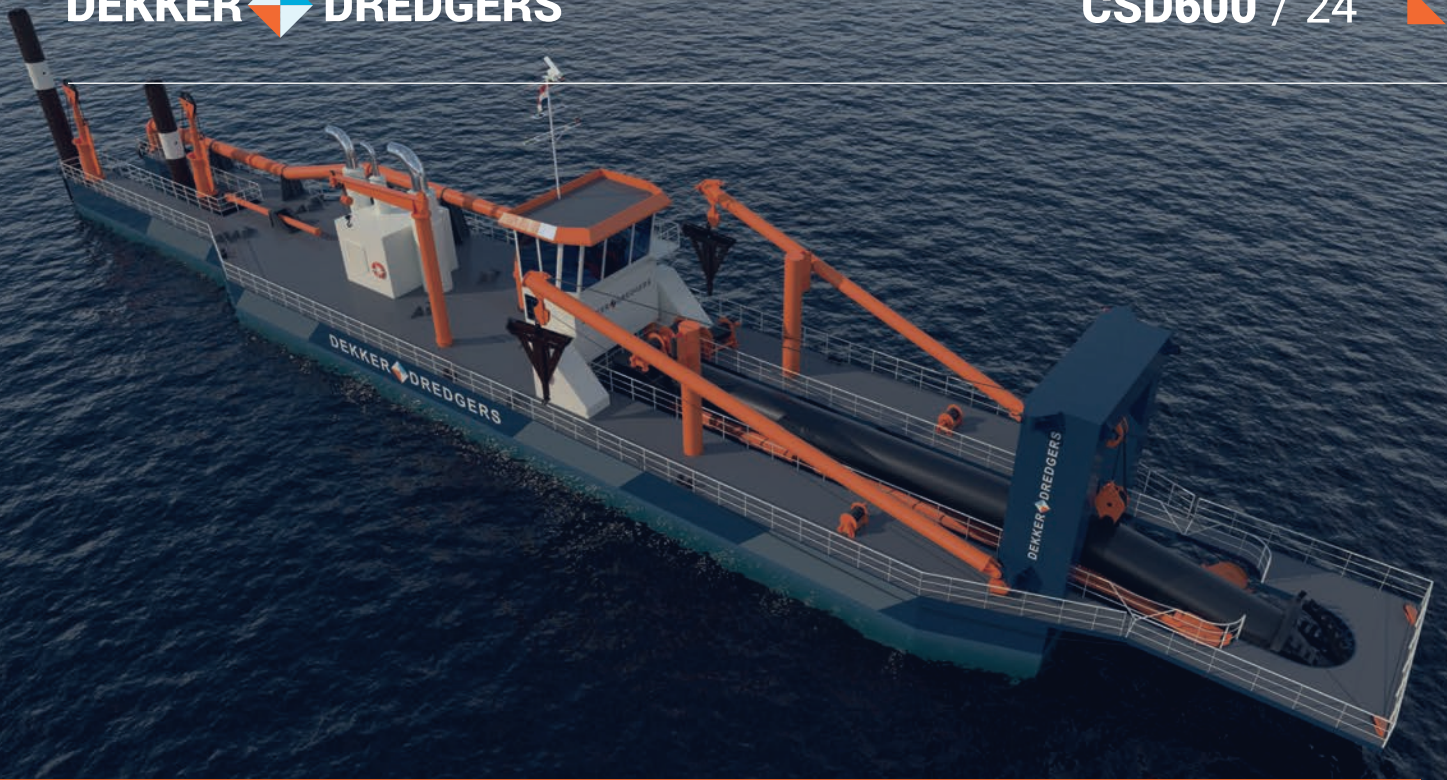


Other features

- 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

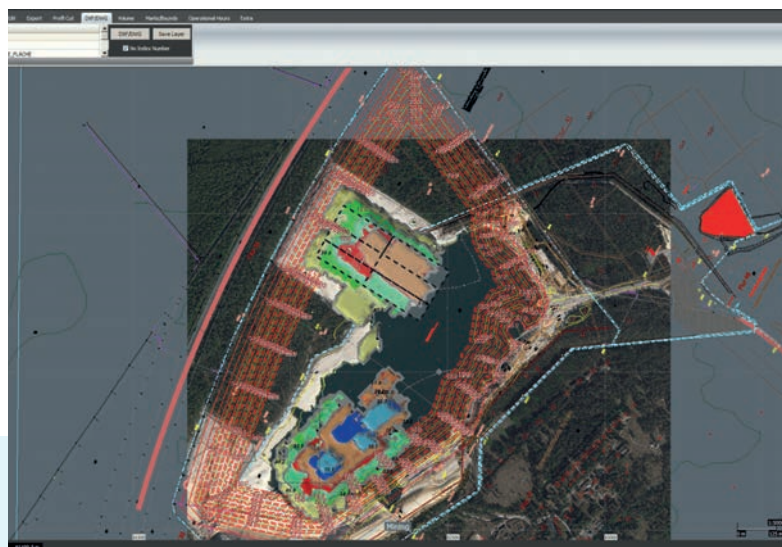
Your benefits: precise positioning of the dredger and the excavation apparatus, direct visualisation of all information during the dredging process, and simultaneous documentation of all data using the same software. The MaPoS system can be used with any kind of dredger and includes the following components:

- 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





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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