



CUTTER SUCTION DREDGER 450

PICTURE OF SIMILAR VESSEL

GENERAL

Type	CSD 450
Basic functions	Capital mining and maintenance dredging

DREDGING FEATURES

Max. dredging depth	-12 m
Swing width	34.0 m (at max. dredging depth)
Max. mixture capacity	3,000 m ³ /h

DREDGE INSTALLATION

Dredge pump type	BP45-1100
Diameter suction/discharge pipe	450 mm
Spherical passage pump	210 mm
Cutter type	Crown model (with changeable chisels)
Cutter power	110 kW
Cutter diameter	1,500 mm

ENGINE INSTALLATION

Dredge pump diesel	Caterpillar C-32 TA
Continuous power rating	709 kW @ 1,600 rpm
Auxiliary diesel	Caterpillar C-09 TA
Prime power rating	232 kW @ 1,800 rpm
Hydraulic installation	Driving cutter, winches and cylinders
Electrical installation	24 V DC and 230/400 V AC, 35.4 kVa

PRINCIPAL DIMENSIONS

Length o.a. incl. ladder	33.15 m
Length over pontoons	22.60 m
Beam	6.95 m
Depth	1.80 m
Draught	1.05 m
Air draught	6.10 m
Total weight	115 ton

TANK CAPACITIES

Fuel oil approx.	18.10 m ³
Ballast water	6.25 m ³
Hydraulic oil	1.50 m ³

DECK MACHINERY

Ladder hoisting	Hydraulic winch 80 kN, 0-15 m/min
Side wire winches (2x)	Hydraulic, 80 kN, 0-15 m/min
Spuds (2x)	Ø 508 mm, length 16 m
Spud hosting (2x)	Hydraulic cylinder, stroke 1.5 m

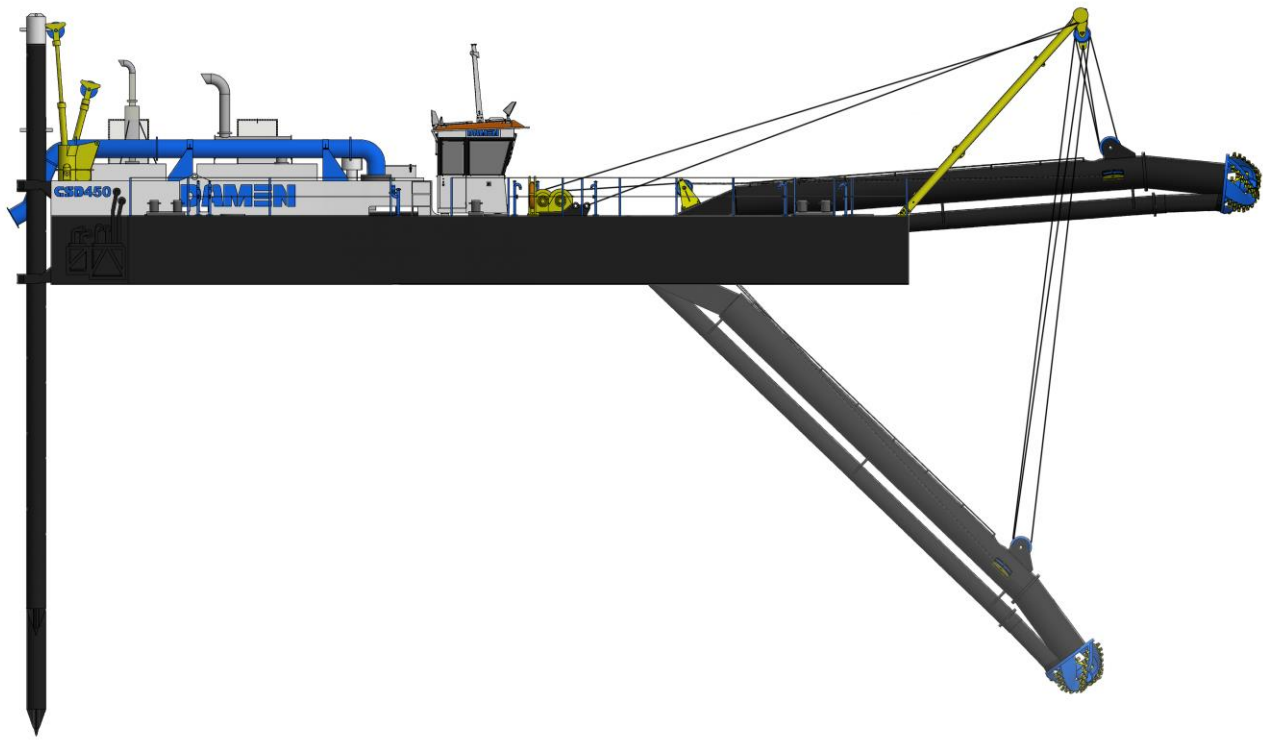
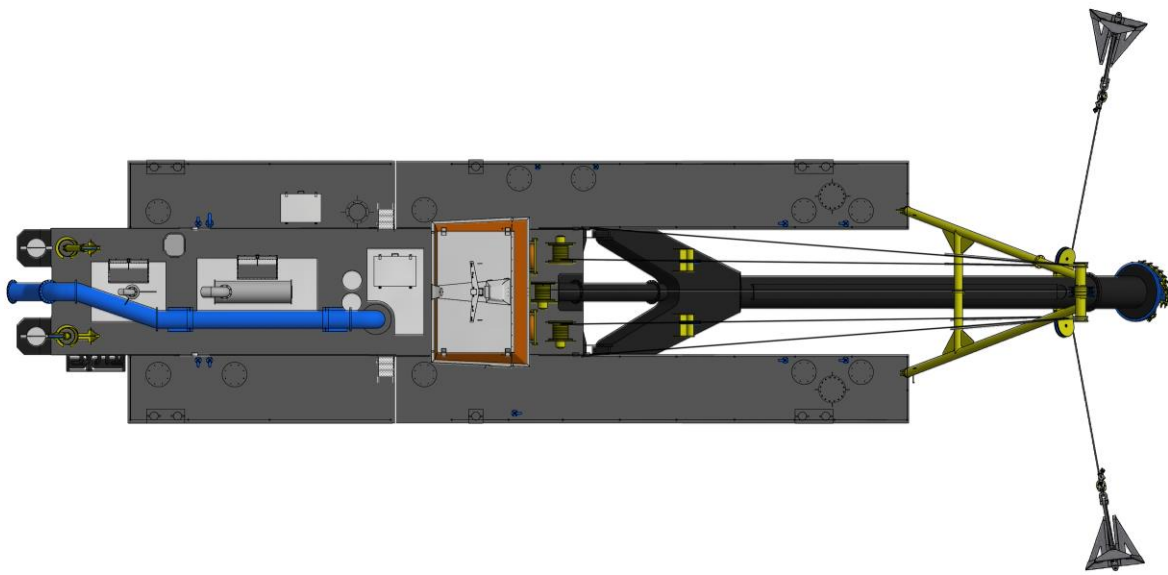
INSTRUMENTATION

Dredging depth indicator	
Vacuum and pressure indication of dredge pump	

REMARKABLE FEATURES

- Dismountable design which allows transport by road
- Heavy duty robust design
- Simultaneous operation of all functions possible
- Spacious ergonomic designed control cabin and engine room
- One operator can control the entire dredger from the control cabin
- Operators cabin with air conditioning and heating
- Scantlings well in excess of class regulations
- Large range of standard options are available to customize the CSD

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DAMEN

DAMEN SHIPYARDS GROUP

Avelingen-West 20
4202 MS Gorinchem
The Netherlands

P.O. Box 1
4200 AA Gorinchem
The Netherlands

phone +31 (0)183 63 99 22
fax +31 (0)183 63 21 89

info@damen.com
www.damen.com

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