

Cutter Suction Dredger 500



GENERAL

Type	CSD 500
Basic functions	Capital, mining and maintenance dredging

DREDGING FEATURES

Max. dredging depth	14	m
Swing width	39.6	m (at max. depth.)

DREDGE INSTALLATION

Dredge pump type	Damen BP5045
Diameter dredge pipe	500 mm
Spherical passage pump	230 mm
Cutter type	Crown model (changeable cutter teeth)
Cutter power	180 kW
Cutter diameter	1625 mm

ENGINE INSTALLATION

Diesel engine	CAT 3512C TA
Continuous power rating	954 kW
Auxiliary diesel	CAT C12 TA
Prime power rating	339 kW
Emission Certification	IMO TIER II
Hydraulic installation	Driving cutter, winches and cylinders
Electrical installation	24 V DC and 230/400 V AC
Generator set	35.4 kVA

PRINCIPAL DIMENSIONS

Overall length	38.5	m
Length hull	25.5	m
Overall width	7.95	m
Depth	2	m
Draught	1.05	m
Air draught	6.4	m
Total weight	140	Ton

TANK CAPACITIES

Fuel oil approx.	21.7	m ³
Bilge water	1.7	m ³
Black water	1.7	m ³
Fresh water	1.6	m ³

DECK MACHINERY

Ladder hoisting winch	Hydraulic, 120 kN, 0-15 m/min
Side wire winches (2x)	Hydraulic, 120 kN, 0-15 m/min
Spuds diameter (2x)	610 mm
Spud hosting (2x)	Hydraulic cylinder, stroke 1500 mm

DIGITAL INSTRUMENTATION

Dredging depth indicator
Vacuum and pressure sensors dredge pump

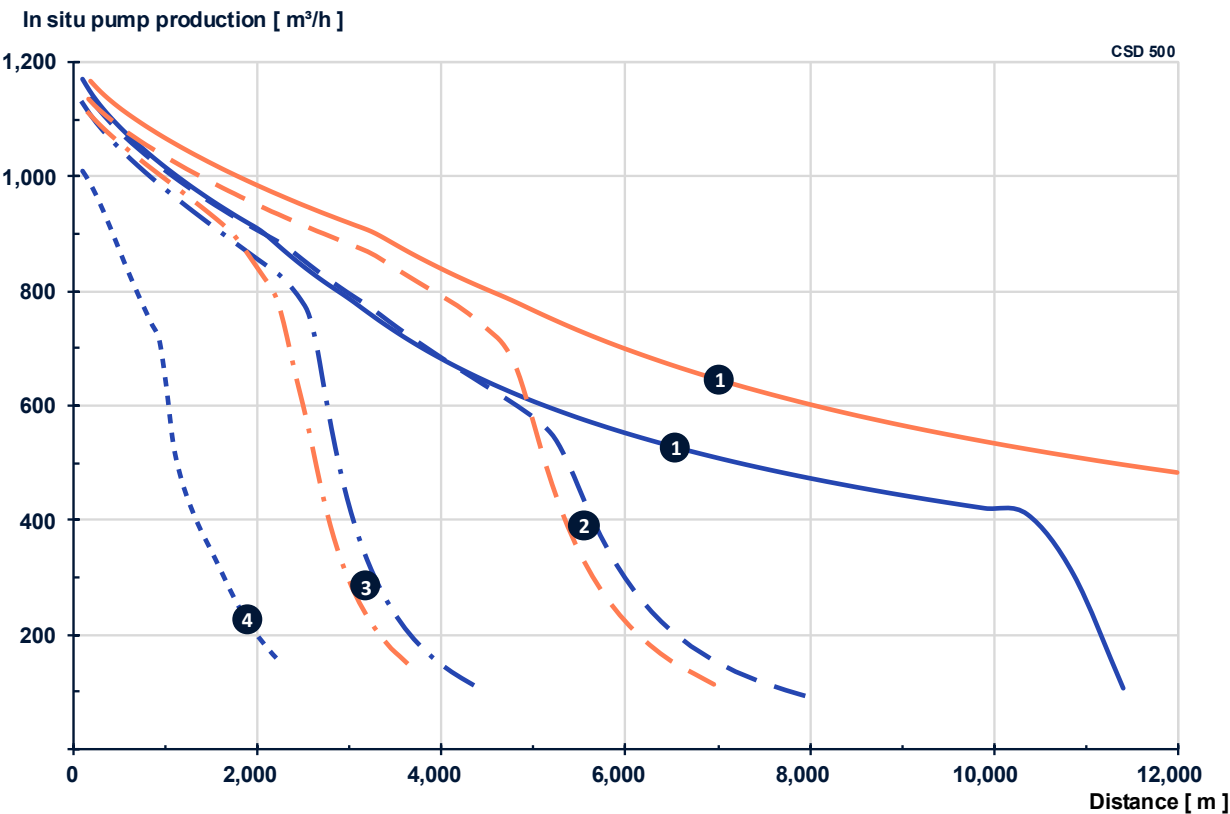
MAIN FEATURES

Dismountable design which allows transport by road
Spacious ergonomic designed control cabin and engine room
Control cabin with air conditioning and heating
One operator can control the entire dredger from the control cabin
Damen Triton

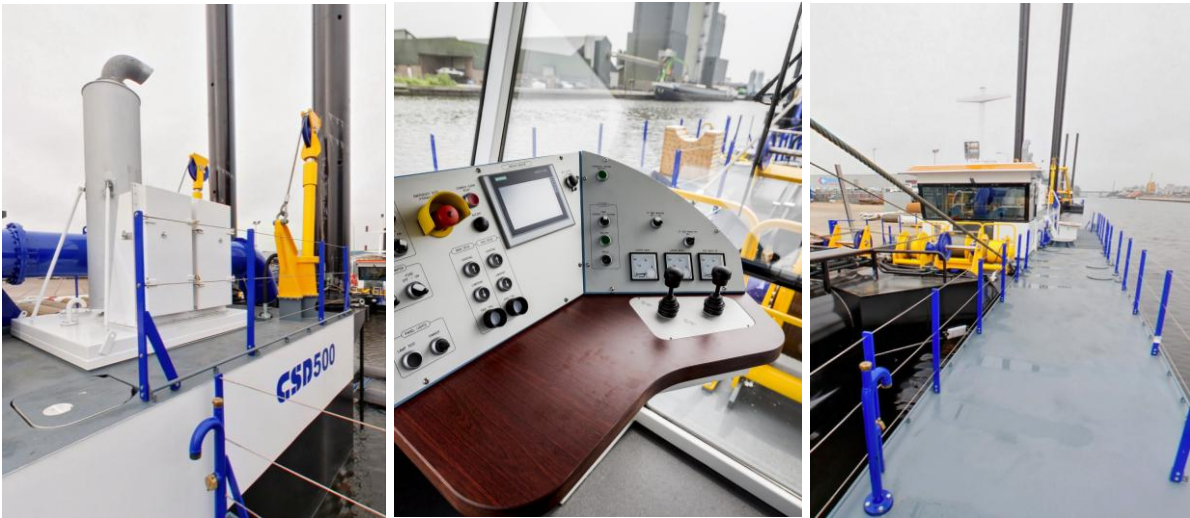
AVAILABLE OPTIONS

Increase of cutter depth to 16 m
Bureau Veritas class certificate
Production measurement system
Position visualisation system
Navigation lights package
Communication package
Spud carriage installation
Anchor boom installation
Deck crane
Day accommodation with sanitary room and kitchen
More options are available on request

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Soil type	Grain size d50	In-Situ density	Discharge diameter:
① Fine sand	0.102 mm	1,900 kg/m³	● 500 mm
② Medium fine sand	0.226 mm	1,950 kg/m³	● 550 mm
③ Coarse sand	0.368 mm	2,000 kg/m³	
④ Coarse sand and gravel	1.2 mm	2,100 kg/m³	



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