



# EuroDredger 450 | Cutter Suction Dredger



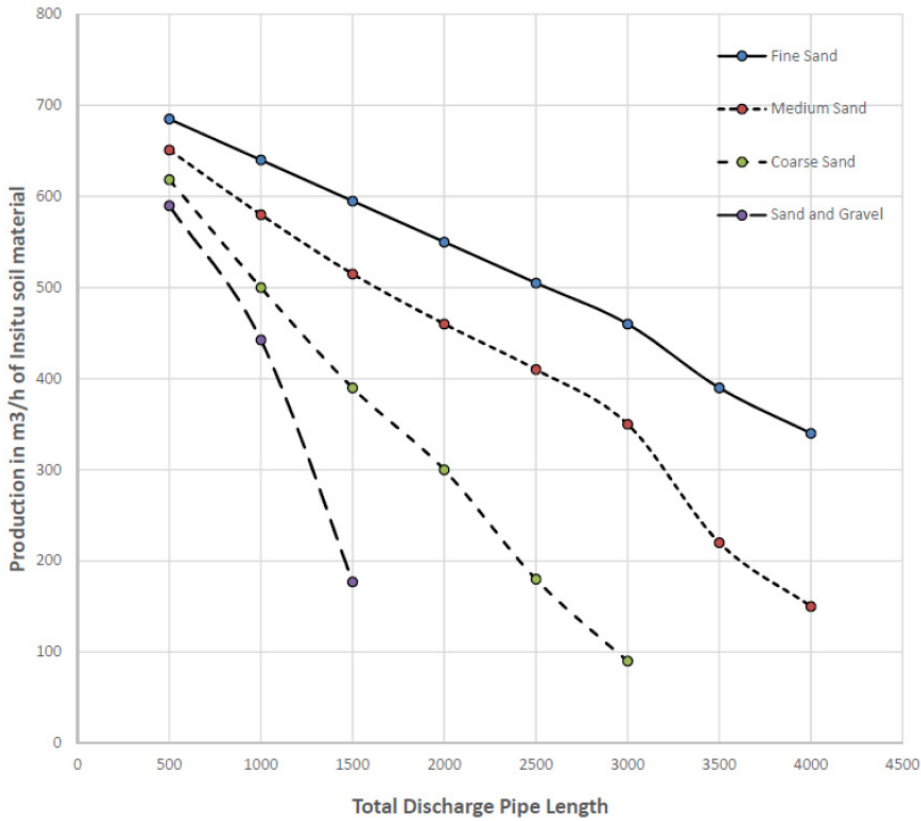
Neptune has developed its own cutter dredger, the EuroDredger. This type of cutter suction dredger is available in a standard design, which can be modified to the demands of your dredging project. The Euro Dredger enables you to perform safe and secure dredging operations. The EuroDredger can also be optionally outfitted with spud carriers or anchor booms.



<b>VESSEL TYPE</b>	Cutter Suction Dredger
<b>DIMENSIONS</b>	
LENGTH OA INCL. LADDER	25,1 m
LENGTH PONTOONS	18,1 m
BREADTH	6,6 m
DEPTH MAIN PONTOON	2,45 m
DEPTH SIDE PONTOONS	1,8 M
DEPTH DRAUGHT	1,2 m
<b>HULL</b>	
LENGTH MAIN PONTOON	11,0 m
BREATH MAIN PONTOON	3,0 m
DEPTH MAIN PONTOON	2,45 m
LENGTH SIDE PONTOONS	16,2 m
BREATH SIDE PONTOONS	1,8 m
DEPTH SIDE PONTOONS	1,8 m
<b>DREDGING PARAMETERS</b>	
DREDGING DEPTH (45°)	10 m
SUCTION PIPE DIA.	450 mm
DISCHARGE PIPE DIA.	450 mm
<b>TANK CAPACITIES</b>	
FUEL OIL	+/- 2 x 8 m <sup>3</sup>
HYDRAULIC OIL	+/- 1.5 m <sup>3</sup>
BALLAST	+/- 4 x 5 m <sup>3</sup>
<b>POWER INSTALLED</b>	
DREDGE PUMP DIESEL ENGINE	634 kW
AUXILIARY DIESEL ENGINE	232 kW
TOTAL INSTALLED	866 kW

<b>EQUIPMENT</b>	
<b>DREDGING EQUIPMENT</b>	
CUTTER	Multi-purpose
POWER	112 kW
SPEED	0-30 rpm
DREDGE PUMP	450 mm
WEAR MATERIAL	CS32 / high wear resistant
PUMP ENGINE	Caterpillar C32
PUMP GEARBOX	Boone or equivalent
<b>SPUD SYSTEM</b>	
SPUD LEGS	2
SPUD LENGTH	12,9 m
SPUD DIA.	457 mm
SPUD LEG LIFTING	Cylinders (2,6 m stroke)
<b>SWING ARRANGEMENT</b>	
SWING WINCHES	2
WIRE PULL	60 kN
HAULING SPEED	0-15 m/min
SWING ANCHORS	Stevin 360 kg
<b>OPTIONS</b>	
ANCHOR BOOMS	
SPUD CARRIER	
DENSITY AND VELOCITY METER	
EXTENDED DREDGING DEPTH	

CSD450 Production Curve



Material type	Grain size	In situ density
Fine sand	d50 = 100 μm	ρ = 1.90 t/m <sup>3</sup>
Medium sand	d50 = 235 μm	ρ = 1.95 t/m <sup>3</sup>
Coarse sand	d50 = 440 μm	ρ = 2.00 t/m <sup>3</sup>
Sand and gravel	d50 = 1300 μm	ρ = 2.20 t/m <sup>3</sup>

**Remarks:**

- No Cutter limitations
- Geodetic height : +4 m
- Dredging depth : - 10 m
- Discharge pipe diameter : 450 mm

## EuroDredger 450 | Cutter Suction Dredger

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