



DESCRIPTION

The Cutter Suction Dredger is reliable, fuel-efficient, and has low maintenance costs and is extremely productive at all dredging depths.

The prime mover for the dredge pump is an appropriate diesel engine with low fuel consumption, and low nox and soot emissions.

The vessel improvement includes:

- An exceptional rate of pumping power, unrivalled in its class
- Improved ergonomics
- Cutter Special pump combining high efficiency and a large spherical passage – providing high availability
- Low maintenance and efficient power distribution with a single diesel engine
- Enhanced safety features, such as a separate pump room.

The Designing and manufacturing are according to rules of Classification Society.



SPECIFICATIONS

Cutter Suction Dredger			
Principal particulars		Dredge pump	
Overall Length, ladder raised	32.30 m	Type HRCS 1200-250-500, single walled	
Length over pontoons	21.65 m	SCAC developing 1,249 kW (1,699 HP)	
Breadth	7.87 m	continuous power at 1600 rpm	
Depth	2.44 m	Dredge pump driven through combined	
Side pontoons:	19.00×2.40×2.42 m	pump	
Mean draught with full bunkers	1.45 m	block/reduction gearbox	
Maximum standard dredging depth	14.00 m	Ball clearance : 250 mm	
Internal diameter of suction tube	550 mm	Cutter	
Internal diameter of discharge pipes	500 mm	Type 10-CB-AL-1455-180-V04	170 KW
Total installed power	1.249 KW	Power at shaft Diameter	1.455 mm
		Maximum speed	30 rev/min
Spuds		Spud hoisting rams	
Length	19 m	Force	262 KN
Diameter	559 mm	Ram stroke	2.10 m
Weight	5,400 kg	Spud stroke (each time approx.)	3.30 m