Raptor 1708 | Water Injection Dredge

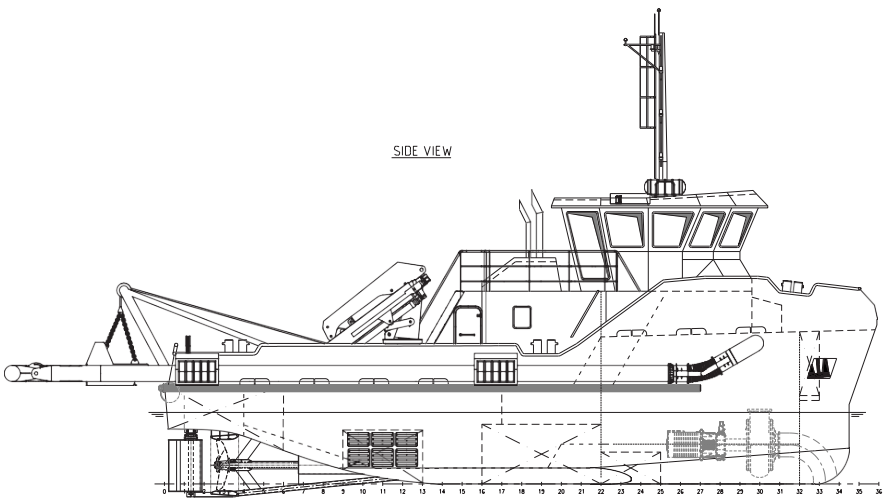
Neptune AMERICAS

The Raptor WID is based on years of operational experience within the maritime industry. The excellent maneuverability, combined with the integrated jetting system, gives the Raptor WID optimal dredging capacities.

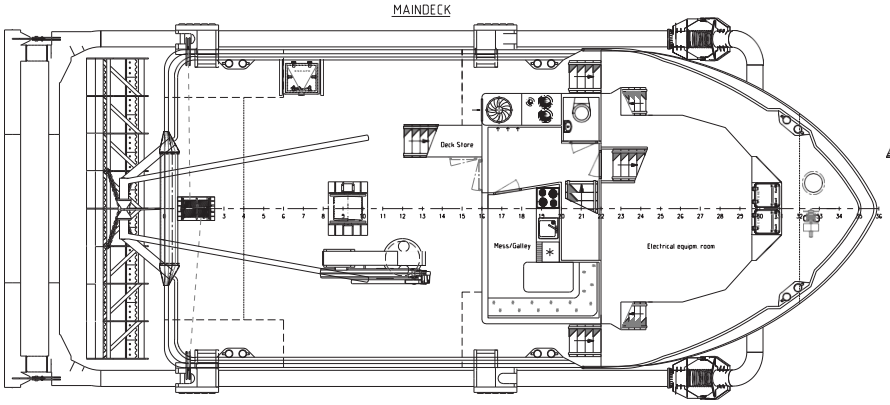
CLASSIFICATION	Bureau Veritas I ✠ HULL • MACH • AUT-UMS Coastal, GMDSS area A1
DIMENSIONS (Approx.)	
LENGTH O.A. (EX JETPIPE)	59 ft (18,1 m)
LENGHT O.A. (INCL. JET- PIPE)	72 ft (21.9 m)
BREADTH MLD	26 ft (8.0 m)
BREADTH (INCL. JETPIPE)	31 ft (9.4 m)
DEPTH	8 ft (2,5 m)
PERFORMANCES	
SPEED	approx. 8 Kn
BOLLARD PULL	approx. 15 ton
DREDGING DEPTH	46 ft (- 14 m) @ 60°
PROPULSION (or equivalent on engines)	
MAIN ENGINES	2x Scania DI16 617 hp (460 kW)
TOTAL POWER	1233 hp (920 kW) at 1800 rpm
PROPELLERS	49 in (1250 mm) diameter in nozzle
AUXILLIARIES (or equivalent on generators)	
MAIN GENERATOR	Scania D13 246 ft, 335hp (75m, 250kW)
SECOND GENERATORS	SisuDiesel 100hp (75 kW)
HYDRAULIC POWERPACK	Electrical driven

TANKS	
FUEL OIL	4,225 gals (16 m³)
FRESH WATER	1,320 gals (5 m³)
SEWAGE	1,320 gals (5 m³)
DREDGING EQUIPMENT	
TYPE	Jet water injection
ARM LENGTH	62 ft (18.8 m)
PUMP	Fairbanks Nijhuis or equivalent
POWERED	Electric 182 ekW
MAX CAPACITY	850,550 gals/hr. (3250 m³/h)
PRESSURE	25 PSI (1,7 bar)
JET BAR LOWERING	Double drum hydraulic winch
JETTING OPTIONS	Adjustable jet bar
DECK EQUIPMENT	
DECK CRANE	HS-Marine AK 48E3 6,230 lbs at 37 ft (2825 kg at 11,28 m)
WINCH CONTROLLED DREDGE PLOUGH	Double blade 25 ft (7,5 m)
FACILITIES	
WHEEL HOUSE:	Climate controlled
DAY AND NIGHT ACC.	3 persons
SANITARY	1 Toilet, 1 Shower
MESS	3 persons incl. cooking cabinet
SAFETY EQUIPMENT	Safety equipment for 4 persons on board

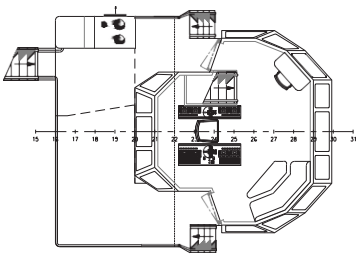
SIDE VIEW



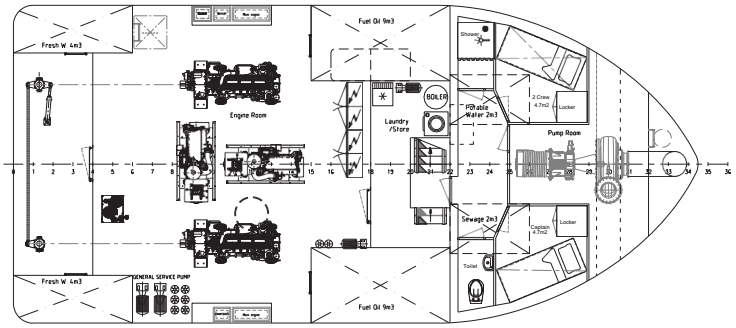
MAINDECK



BRIDGEDECK



BELOW MAINDECK



Designed By: BNDE — A Dredging & Marine Engineering Company

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