

EQUIPMENT SHEET

BOKA DEFENDER
DP II ANCHOR HANDLING SALVAGE TUG



CONSTRUCTION / CLASSIFICATION

Built	2017 - Niigata Shipbuilding, Japan
Design	Ulstein SX 157
Classification	✕ 1A1 FiFi II Offshore service vessel+, Anchor handling, Towing, BIS BWM(T), Clean(Design), COMF (V-3) DYNPOS (AUTR), E0 Ice(1B) NAUT(OSV(A)) Recyclable SF TMON
DP notation	DP 2
IMO number	9737242
Call sign (flag)	PDDE (The Netherlands)
Port of registry	Rotterdam

MAIN DATA

Gross tonnage	5,901 GT
Net tonnage	1,771 NT
Length overall	88.51 m
Length b.p.	84.94 m
Beam overall	21.00 m
Depth to maindeck	9.50 m
Draft	8.5 m
Deadweight	4,230.3 mt
Cargo deck area	550 m ²
Deck load	10 mt/m ²

Chain locker capacity	2 x 255.6 m ³
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Bollard Pull	306 mt
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PROPULSION

Main engines	18,000 kW / 600 RPM 4 x 4,500 kW MAK 9M32C
Propellers	4 blades, Berg CPP x 2 with fixed nozzles, 5,000 mm Ø
Rudders	Rolls-Royce electro-hydraulic rotary-vane Type: Flap rudder (SR743 FCP)
Bow thrusters	2x Berg Tunel, CPP 22,4 mt @ 211 RPM, 1,500 kWt, 2,550 mm Ø
Stern thrusters	2x Berg Tunel, CPP 14,8 mt @ 306 RPM, 1,050 kWt, 1,950 mm Ø
Generators	3 x CAT C32 940 kW @ 1,800 RPM 60 Hz, 3 phase
Shaft generators	2 x AEM Shaft Gen 3,150 kWt @ 1,200 RPM 60 Hz, 3 phase, driven by ME

ACCOMMODATION

Total allowed persons	35
Cabins	Single berth 25 Double berth 5
Hospital	Single berth - category A (24)

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EQUIPMENT	
Towing winch	Rolls Royce/Brattvaag mod. SL400-3T 1 st speed: 401 mt @ 0-13 m/min
Brake holding load	600 mt on 1 st layer, 675 mt on 1 st layer static load
Drums capacity	3 x 2,000 m x 83 mm Ø
Control	Remote controlled from bridge
Cable lifters	500 mt @ 0 - 9m/min, 2 x 76 mm Ø 1 x 127 mm Ø
Main tow wires	2,000 m x 83 mm Ø
Spare towing wires	2,000 m x 83 mm Ø 1,200 m x 83 mm Ø
Work wires	400 m x 83 mm Ø
Storage reels	2 compartments: 2,335 m and 550 m of 86 mm Ø 3 compartments: 990 m of 86 mm Ø
Stern roller	2,000 mm Ø, total length 5,000 mm, 650 mt SWL
Deck winch	2 x 30 mt pull GOG winch @ 0 - 12 m/min 38 mm Ø, capacity 720 m x 42 mm Ø wire 1 x 15 mt pull Tugger winch @ 0 - 30 m/min 28 mm Ø, capacity 710 m x 28 mm Ø wire
Capstans	2 x Rolls Royce, 13.2 mt pull @ 0 - 10 m/min
Towing pins	2 x Karmoy set of 2 pins 450 mm Ø 300 mt SWL
Karm forks	2 x Karmoy 500 mm Ø 600 mt SWL inserts For Chain 50 mm Ø - 125 mm Ø - 165 mm Ø
Quarter pins	2 x popup pins 450 mm Ø 300 mt SWL
Gipsy wheels	2 x 76 mm Ø: 6 pockets width 398 mm and 2,190 mm Ø 2 x 84 mm Ø: 6 pockets width 425 mm and 1,600 mm Ø 2 x 92 mm Ø: 5 pockets width 461 mm and 1,545 mm Ø
Rov preparation	1 x Dedicated mezzanine deck available for WROV and LARS
Store and deck cranes	Triplex (KNC-60/3.0/105/45) capacity SWL 3 mt at max 15 m capacity SWL 6 mt at max 10 m

TANK CAPACITIES	
Ballast water	3,103.6 m ³
Fresh water	307.6 m ³
Main engines	3,183 m ³
Auxiliary generators	349 m ³
Endurance at full power	49 days
Endurance at half power	84 days