



**IMPRESA
FRATELLI BARRETTA
S.R.L.**



ASMARA

AZIMUTHING TUG



GENERAL INFORMATION

| | |
|-------------------------|--|
| Class | R.I.NA 100 A1.1 STAR UNRESTRICTED NAVIGATION / TOWING-SALVAGE / IAQ1 24 / FFQ1 |
| Year | 1998 |
| Flag | ITALIAN |
| Port of Registry | BRINDISI |

MAIN DIMENSIONS

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|-----------------------------|--|
| Length (L.O.A) | (L.O.A) 34.20 Mt. |
| Breadth | 10.80 Mt. |
| Draft | 4.90 Mt. intubato SCHOTTEL da 340 BHP (4 Tons spinta) |
| Gross Tonnage (G.T.) | (G.T.) 447 Tons |
| Additional Notes | Aft free deck 85 Sqm, max cargo capacity 90 Tons |

MACHINERY & PROPULSION

| | |
|--------------------------|---|
| Main Engines | 2 x MAK 9 M 20 diesel engines, each producing 2,326 BHP at 1000 rpm. Total installed power 4,652 BHP. |
| Propulsion | 2 x WARTSILA LIPS CS 1500 - 250/1500 MN azimuthing thrusters with controllable pitch propellers in nozzles. |
| Auxiliary Engines | 2 x MAN D 15062A auxiliary engines (490 BHP) with STAMFORD alternators (300 Kwe). 1 x IVECO port generator (80 Kwe). |
| Bollard Pull | 56 Tons continuous / 58 Tons max |
| Speed | 13.6 Kn. |
| Bow Thruster | 1 x SCHOTTEL electric bow thruster in nozzle, 340 BHP (4 Tons thrust) |

EQUIPMENT & CAPACITIES

DECK EQUIPMENT

- TOWING WINCHES: 1 x ULSTEIN BRATTVAAG low-pressure aft towing winch (50 TONS dynamic, 130 TONS static brake) with divided drum (750m steel wire 48mm and 220m DYNEEMA 68mm).
- 1 x forward combined winch (150m DYNEEMA 68mm).
- Both operable from local control station and wheelhouse with automatic/emergency release.
- TOWING HOOKS: 2 x hydraulic towing hooks 65 Tons S.W.L.
- STERN ROLLER: 3500 mm x 800 mm.
- TOW PINS: KARMOY hydraulic tow pins 60 S.W.L.
- HYDRAULIC CRANE: Lifting 1500 Kg at 10.50m.

FIREFIGHTING

- 2 x FFQ1 R.I.N.A. class firefighting systems consisting of:
- 2 x centrifugal pumps connected to Main Engines.
- 2 x remote-controlled water/foam monitors from the wheelhouse.
- 1 x hull and accommodation SELF-PROTECTION water spray system.
- 2 x structural tanks with 24 m³ of A.F.F.F. foam liquid.
- Total capacity: 2800 m³/h of water at 130m distance and 60m height.

CAPACITIES

- Dispersant system (10 m³).
- Gasoil capacity: 232 m³.
- Fresh water capacity: 84 m³.
- Foam capacity: 24 m³.
- Dispersant capacity: 10 m³.
- Rec-Oil capacity: 50 m³.
- Fresh water supply to others: Up to 80 Tons.
- Endurance: 4400 miles or 14 days towing.

ACCOMMODATION & MISC

- RESCUE BOAT: 5.50m RIB with 60 HP outboard motor.
- ACCOMMODATION: Fully air-conditioned: 4 single cabins (private bathroom), 3 double cabins (shared bathroom), galley, mess, provision room, 600 Lt fridge.
- TOWING & SALVAGE EQUIPMENT:
- 2 complete diver equipments.
- Oxy-acetylene welding and cutting gear.
- 3 electric submersible salvage pumps (capacity 400 m³/h).
- 3 rolls of 200m 18 KARAT 88mm ropes.
- 2 steel slings of 55m (diameter 44mm).
- 4 steel towing slings of 30m (diameter 40mm).
- 2 lengths of 46mm chain (60 Tons S.W.L.).
- 6 high-tensile shackles of 80 Tons.
- 5 high-tensile shackles of 55 Tons.
- 1 special towing plate of 60 Tons.

EQUIPMENT & CAPACITIES (CONTINUED)

NAVIGATION / COMMS

- 1 x 'S' band 72 miles FURUNO DAYLIGHT radar.
- 1 x 'X' band 72 miles FURUNO DAYLIGHT radar.
- 2 x 3000 W Xenon Searchlights.
- Autopilot.
- Gyrocompass.
- FURUNO GP50 GPS.
- Echosounder.
- Magnetic compass.
- G.M.D.S.S. console area A1+A2+A3.
- 2 x SAILOR RT 2048 VHF.
- SAILOR T2131/RE2100 MF transceiver.
- FURUNO NX 500 Navtex.
- SAILOR H2095B Inmarsat satellite system.
- FURUNO FA-100 AIS.
- TT-3000 LRIT.
- 2 x RDF.