



GENERAL

DESIGN	Robert Allan Ltd. RAScal 2100
BASIC FUNCTIONS	Towing, pushing, mooring, fire-fighting
CLASSIFICATION	RINA C ⚓HULL, ⚓MACH, TUG UNRESTRICTED NAVIGATION, ⚓ AUT-UMS FIREFIGHTING SHIP E INWATERSURVEY

DIMENSIONS

LENGTH O.A.	21.40 m
BEAM	11.30 m
DEPTH	4.0 m
DRAFT <small>EXTREME</small>	3.90 m
GROSS TONNAGE	< 300

TANK CAPACITIES

FUEL OIL	47,00 m ³
FRESH WATER	10,80 m ³

PERFORMANCES

BOLLARD PULL	50 tons
SPEED	12 knots (approx.)

PROPULSION SYSTEM

MAIN ENGINES	CATERPILLAR 3512C
TOTAL POWER	2 x 1765 @ 1800 rpm
EMISSION STANDARD	IMO Tier II
PROPELLER	TEINBRIDGE 2100 mm DIA
GEARBOX	ZF 7661
REDUCTION RATIO	5,952:1
SHAFTING	Steel Shaft

ACCOMMODATION

Accommodation for 5 people, high-quality and great comfort.
Accommodation is climate-controlled and includes one double crew and three single cabins.

DECK EQUIPMENT

FORE TOWING WINCH	THR MARINE (SEC) electric frequency controlled towing winch one towing drum. Force / speed ranges : 200 kN at 0-9m/min 65 kN at 0-27m/min Brake holding force in 1 st layer : 750 kN
TOWING HOOK	Quick Release Disc Type Towing Hook DATA Type: DTH 45-90
CAPSTAN	THR MARINE (SEC) electric capstan
ANCHORS & CHAIN	1 x 180 kg (HHP) Short link chain 19mm Gr2
ANCHOR CAPSTAN	1 x THR MARINE (SEC) electric anchor capstan
FENDERS	Rubber, cylinder and W type bow fender, D type at sides and aft

AUXILIARY EQUIPMENT

GENERATOR SET	2 x CATERPILLAR C4.4 86ekW @ 1500 rpm
FRESH WATER SYSTEM	Hydrophore and UV filter combined heater
MACHINERY COOLING SYSTEM	Plate Cooler Type
AIR-CONDITIONING	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
FIFI E SYSTEM	1 x M/E driven fi-fi pump Capacity, 1314 m ³ /hour 1 x Monitor : Foam/water monitor with remote operated, electric controls

NAUTICAL AND COMMUNICATION EQUIPMENT

GMDSS A2 AREA	
SEARCHLIGHT	2 x 230 V, 2000 W (Remote Controlled)
RADAR	JRC: JMR-541006XA BB
GPS	JRC: JLR-7500
AIS CLASS A	JHS-183
AIS CLASS B	I-MARINE
GPS COMPASS	JRC: JLR-21
MAGNETIC COMPASS	REFLECTA 3
NAVTEX	JRC: NCR 333
EPIRB	JOTRON 83310
SART	JOTRON 85037
AUTOPILOT	NAVITRON NT-888G
BNWAS	NAVITRON NT991
INTERCOM	PHONTECH: CIS-3100
VHF	ICOM: IC M323
INMARSAT-C & LRIT&SSAS	JRC:JUE-87
ECHO SOUNDER	JRC: 7050