



SEA THE **FUTURE** ...



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## COMPANY

Med Marine is a Turkish shipbuilder and Turkey's leading tugboat operator, providing a broad range of services in towage, pilotage and mooring in the busiest ports of Turkey for over 20 years.

Med Marine's service areas are towage, pilotage, emergency response, salvage and wreck removal, pollution prevention, ship escort and chartering. Its fleet consists of ASD type and conventional tugs ranging from 30TBP to 70 TBP.

Med Marine employs Ereğli Shipyard, one of the largest shipyards in Turkey, for building state-of-the-art technology tugboats and Stainless Steel (STST) IMO II type chemical/oil tankers either for its main operations, or global clients. Med Marine successfully completed the constructions and deliveries of over 120 projects including tugboats, chemical/oil tankers, mooring and pilot boats. Med Marine is capable of constructing tugboats between 20 TBP and +100 TBP; and mooring/work/pilot and crew boats between 8m and 20m.

## CERTIFICATION





Med Marine is a member of European Tugowners Association since 1997, and a member of BIMCO since 2000. In addition, Med Marine was awarded ISO 9001 certification in January 2001 by BV. Moreover, in 2010, ISO 14001:2004 & OSHAS 18001:2007 certificates have been achieved.

Combining excellence in design and years of experience, Med Marine maintains the highest global standards in its business in order to meet its multinational clients' needs.

**Data last updated:** June 2018

**Check our website for latest information and our reference list:** [www.medmarine.com.tr](http://www.medmarine.com.tr)



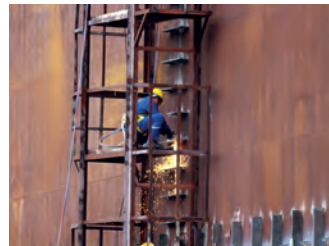


## EREĞLİ SHIPYARD

Being a Group Company of Med Marine, Ereğli Shipyard is an independent shipyard constructed in Ereğli, Black Sea located right next to Ereğli Iron and Steel Works.

Owned by Med Marine Group, Ereğli Shipyard has completed numerous projects mainly in tugboat and chemical tanker segments since 2004 both for Med Marine's own fleet and for global clients.

Up until now, various chemical tankers have been constructed in different sizes, ranging from 5.300 DWT to 25.000 DWT in Ereğli Shipyard. Many tugboat projects, including both conventional and ASD type tugboats ranging from 18m x 30 TBP to 36m x 95 TBP, have been built and delivered.





The total area of the shipyard is some 162.000 sqm being one of the biggest in Turkey, and the biggest in terms of slipway capacity.

The shipyard facilities consist of 30.000 sqm of covered high ceiling steel workshop areas with overhead cranes, 3200 sqm of office, dining, social facilities and en-suite rooms in three fully air-conditioned high- tech buildings. There are 4 slipways of various dimensions and slopes in Ereğli Shipyard. The 220 L x 38 W mtrs slipway, being one of the biggest ever built so far in Turkey, is capable of accommodating handymax or even panamax size new buildings.

The steel processing capacity is 32,000 tonnes per year. The shipyard is self-sufficient in many ways from having its shop blasting and priming facilities to all the way to finishing processes.



## TUGBOATS

RAscal 1800 TS  
1830 TS TUG





GENERAL	
DESIGN	Robert Allan Ltd. – RAScal 1800
BASIC FUNCTIONS	Towing, pushing, mooring, fire-fighting operations
CLASSIFICATION	RINA C ✘ HULL ✘ MACH ✘ AUT- UMS, FIRE FIGHTING SHIP E; UNRESTRICTED NAVIGATION
DIMENSIONS	
LENGTH O.A.	18,00 m
BEAM O.A.	8,60 m
DEPTH (MOULDED)	3,30 m
DESIGN DRAFT	3,3 m
FULL LOAD DRAFT	3,5 m
TANK CAPACITIES	
FUEL OIL	25,00 m <sup>3</sup>
FRESH WATER	8,00 m <sup>3</sup>
PERFORMANCES	
BOLLARD PULL	30 tons
SPEED	12 knots (approx.)
MACHINERY & PROPULSION SYSTEM	
MAIN ENGINES	2 x CATERPILLAR C32
TOTAL POWER	2 x 895kW@1800 rpm
PROPELLERS	1.780mm dia, CU3 material
GEARBOX	2 x ZF 5355
REDUCTION RATIO	5,500:1
DECK EQUIPMENT	
ANCHORS & CHAIN	1 x180kg (HHP) 137.5 m of grade 2 stud link chain
SHIP ASSIST WINCH	Electrical driven Force and speed ranges: 200 kN at 0-9 m/min 65 kN at 0-27 m/min Brake holding load 75 tonnes, full drum
ANCHOR CAPSTAN	Vertical axis hydraulically powered independent Windlass
TOWING HOOK	DATA Quick Release Disc Type Towing Hook, type DTH 35-70P
FENDERS	Rubber, Cylinder, W and D type fendering around the hull
AUXILIARY EQUIPMENT	
GENERATOR SET	2 x C4.4 86 ekW 1500 rpm 50hz
FRESH WATER SYSTEM	Electrical hydrophore
AIR-CONDITIONING	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
EXTERNAL FIRE FIGHTING (FIFI E)	M/E driven fi-fi pump 1 x Main fire pumps Capacity; 1200 m <sup>3</sup> /hr 1 x Monitors : – Foam/water monitor with remote operated, electric controls

ACCOM	
Accommodation for <b>4 persons</b> MLC-compliant high-quality and great-comfort accommodation is climate-controlled and includes two double crew cabins.	
NAUTICAL AND COMMUNICATION EQUIPMENT	
GMDSS A2 AREA	
SEARCHLIGHT	2 x 24 V, 1000 W (REMOTE CONTROLLED)
RADAR	X BAND RADAR
INMARSAT SSAS	JRC JUE 87
GPS NAVIGATOR	1 PC DGPS
RADIO SYSTEM	JRC GMDSS A1+A
SPEED LOG	JLN-205 MK2
BNWAS	NAVITRON NT991 BNWAS
AIS CLAS A	JHS 183
AIS CLAS B	IMARINE3.5
SART, EPIRB	JOTRON 85037/ 83310
WIND SYSTEM	CLIPPER
AUTOPILOT	NT921MKII
COMPASS	SATELLITE COMPASS



## TUGBOATS

RAL 22,5M HARBOUR & COASTAL TUG  
22.5/45 CONVENTIONAL TUG





GENERAL	
<b>DESIGN</b>	Robert Allan Ltd. – 22,5m Harbour & Coastal Tug
<b>BASIC FUNCTIONS</b>	Towing, pushing, mooring, fire-fighting operations
<b>CLASSIFICATION</b>	BUREAU VERITAS I✘HULL ✘MACH; TUG ✘AUT-UMS; UNRESTRICTED NAVIGATION

DIMENSIONS	
<b>LENGTH O.A.</b>	22.50 m
<b>BEAM O.A.</b>	8.80 m
<b>DEPTH AT SIDES</b>	3.66 m
<b>DRAUGHT (LOADED)</b>	2.94 m
<b>GROSS TONNAGE</b>	196,52 GT

TANK CAPACITIES	
<b>FUEL OIL</b>	64,1 m <sup>3</sup>
<b>FRESH WATER</b>	17,2 m <sup>3</sup>
<b>SEWAGE</b>	0,22 m <sup>3</sup>
<b>OILY WATER</b>	0.13 m <sup>3</sup>
<b>LUBRICATION OIL</b>	0.42 m <sup>3</sup>
<b>COOLANT</b>	0,43 m <sup>3</sup>
<b>FOAM</b>	4.98 m <sup>3</sup>

PERFORMANCES	
<b>BOLLARD PULL</b>	35/40/45 tons
<b>SPEED</b>	12 knots

MACHINERY & PROPULSION SYSTEM	
<b>MAIN ENGINES</b>	2 x MTU - 12V4000M61R
<b>TOTAL POWER</b>	2 x 1140 Kw @ 1600 rpm
<b>PROPULSION</b>	2 x PROMARINE
<b>PROPELLERS</b>	2.080mm dia, CU3 material
<b>GEARBOX</b>	2xReverse Reduction Gearbox MMW7400
<b>REDUCTION RATIO</b>	5,259:1

DECK EQUIPMENT	
<b>ANCHORS &amp; CHAIN</b>	1x300 kg (High Holding Power) Short link chain 22 mm Gr 2
<b>ANCHOR &amp; TOWING WINCH</b>	One (1) piece DATA DTW 12 x 90 H Hydraulic electric frequency controlled anchor combined towing winch for chain 22 mm, U2 with two chain wheels, one towing drum and one warping head. Type: DZC 2601 HC-22L – 22 U2 One (1) piece ratchet roller chain stopper type DZR 22G.
<b>TOWING HOOK</b>	MAMPAEY Quick Release Disc Type Towing Hook, type DCX. 45/90
<b>FENDERS</b>	Rubber, D and keyhole type fendering around the hull

AUXILIARY EQUIPMENT	
<b>GENERATOR SET</b>	2 x CATERPILLAR 2438B 150 ekW
<b>BILGE PUMP</b>	1 pcs 40,00 m <sup>3</sup> /hr
<b>COOLING WATER SYSTEM</b>	Heat exchanger
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore and sewage pump
<b>AIRCONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>VENTILATION</b>	MECHANICAL VENTILATION EXHAUST: 1 x 180 m <sup>3</sup> , 1 x 150 m <sup>3</sup> 1 x 600m <sup>3</sup> centrifugal direct driven fan MECHANICAL VENTILATION SUPPLY: 2 x SALOR aircap. 2 x 21.000m <sup>3</sup> /hr 1 x 1000 m <sup>3</sup> /hr Axial centrifugal direct driven fan
<b>EXTERNAL FIRE FIGHTING</b>	M/E driven fi-fi pump 1 x Main fire pumps Capacity; 1200 m <sup>3</sup> /hr 1 x Monitors : – Foam/water monitor with remote operated, electric controls

ACCOMMODATION	
Accommodation for <b>6 persons</b> , high-quality and great-comfort accommodation is climate-controlled and includes a captain's cabin, an officer cabin and two double crew cabins.	

NAUTICAL AND COMMUNICATION EQUIPMENT	
<b>FURUNO - COMPLYING GMDSS A2 AREA</b>	
<b>SEARCHLIGHT</b>	WISKA, 24 V, 1000 W
<b>RADAR</b>	FURUNO 1932 MK-2
<b>GPS COMPASS</b>	FURUNO SC-30
<b>GPS NAVIGATOR</b>	FURUNO GP-32
<b>VHF RADIO</b>	FURUNO FM-8800S
<b>WIND SYSTEM</b>	FURUNO FI-501-30
<b>AIS</b>	JRC – JHS-183
<b>ECHOSOUNDER</b>	FURUNO 620
<b>AUTOPILOT</b>	ALPHATRON
<b>NAVTEX</b>	FURUNO 700B
<b>COMPASS</b>	CASSEN 33005



## TUGBOATS

RAscal 1800 ASD  
1830 ASD TUG





**GENERAL**

<b>DESIGN</b>	Robert Allan Ltd. – Rascal 1800
<b>BASIC FUNCTIONS</b>	Towing, pushing, mooring, fire-fighting operations
<b>CLASSIFICATION</b>	RINA C ✘ HULL ✘ MACH ✘ AUT- UMS, FIRE FIGHTING SHIP E; UNRESTRICTED NAVIGATION

**DIMENSIONS**

<b>LENGTH O.A.</b>	18,00 m
<b>BEAM O.A.</b>	8,60 m
<b>DEPTH (MOULDED)</b>	3,30 m
<b>DESIGN DRAFT</b>	3,3 m
<b>FULL LOAD DRAFT</b>	3,5 m

**TANK CAPACITIES**

<b>FUEL OIL</b>	25,00 m <sup>3</sup>
<b>FRESH WATER</b>	8,00 m <sup>3</sup>

**PERFORMANCES**

<b>BOLLARD PULL</b>	30 tons
<b>SPEED</b>	12 knots (approx.)

**MACHINERY & PROPULSION SYSTEM**

<b>MAIN ENGINES</b>	2 x CATERPILLAR C32
<b>TOTAL POWER</b>	2 x 895kW@1800 rpm
<b>AZIMUTHING STERN DRIVE</b>	2 x SCHOTTEL Rudder Propeller SRP 260 FP
<b>PROPELLERS</b>	1750 mm

**DECK EQUIPMENT**

<b>ANCHORS &amp; CHAIN</b>	1 x180kg (HHP) 137.5 m of grade 2 stud link chain
<b>SHIP ASSIST WINCH</b>	Electrical driven Force and speed ranges: 200 kN at 0-9 m/min 65 kN at 0-27 m/min Brake holding load 75 tonnes, full drum
<b>ANCHOR CAPSTAN</b>	Vertical axis hydraulically powered independent Windlass
<b>TOWING HOOK</b>	DATA Quick Release Disc Type Towing Hook, type DTH 35-70P
<b>FENDERS</b>	Rubber, Cylinder, W and D type fendering around the hull

**AUXILIARY EQUIPMENT**

<b>GENERATOR SET</b>	2 x C4.4 86 ekW 1500 rpm 50hz
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore
<b>AIR-CONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>EXTERNAL FIRE FIGHTING (FIFI E)</b>	M/E driven fi-fi pump 1 x Main fire pumps Capacity; 1200 m <sup>3</sup> /hr 1 x Monitors : – Foam/water monitor with remote operated, electric controls

**ACCOMMODATION**

Accommodation for **4 persons** high-quality and great-comfort accommodation is climate-controlled and includes two double crew cabins.

**NAUTICAL AND COMMUNICATION EQUIPMENT**

<b>GMDSS A2 AREA</b>	
<b>SEARCHLIGHT</b>	2 x 24 V, 1000 W (REMOTE CONTROLLED)
<b>RADAR</b>	X BAND RADAR
<b>INMARSAT SSAS</b>	JRC JUE 87
<b>GPS NAVIGATOR</b>	1 PC DGPS
<b>RADIO SYSTEM</b>	JRC GMDSS A1+A
<b>SPEED LOG</b>	JLN-205 MK2
<b>BNWAS</b>	NAVITRON NT991 BNWAS
<b>AIS CLAS A</b>	JHS 183
<b>AIS CLAS B</b>	IMARINE3.5
<b>SART, EPIRB</b>	JOTRON 85037/ 83310
<b>WIND SYSTEM</b>	CLIPPER
<b>AUTOPILOT</b>	NT921MKII
<b>COMPASS</b>	SATELLITE COMPASS



## TUGBOATS

RAmparts 2300-MM  
2335/2350/2360 ASD TUG





GENERAL	
<b>DESIGN</b>	Robert Allan Ltd. – RAmports 2300MM
<b>BASIC FUNCTIONS</b>	Towing, pushing, mooring, fire-fighting operations
<b>CLASSIFICATION</b>	RINA C✘HULL✘MACH✘AUT-UMS FIREFIGHTING, SHIP E WITH WATER SPRAY, UNRESTRICTED NAVIGATION, GREENSTAR 3, MLC DESIGN
<b>OPTIONAL NOTATION</b>	FIRE-FIGHTING SHIP 1; WATER SPRAYING

DIMENSIONS		TANK CAPACITIES	
<b>LENGTH O.A.</b>	23,00 m	<b>FUEL OIL</b>	62,00 m <sup>3</sup>
<b>BEAM O.A.</b>	10,90 m	<b>FRESH WATER</b>	11,40 m <sup>3</sup>
<b>DEPTH (MOULDED)</b>	4,40 m	<b>SEWAGE</b>	10,30 m <sup>3</sup>
<b>DESIGN DRAFT</b>	3,15 m	<b>OILY WATER</b>	3,20 m <sup>3</sup>
<b>FULL LOAD DRAFT</b>	4,80 m	<b>LUBRICATION OIL</b>	1,80 m <sup>3</sup>
<b>GROSS TONNAGE</b>	289 GT	<b>FOAM</b>	3,20 m <sup>3</sup>
<b>NET TONNAGE</b>	87 NT	<b>FRESH WATER BALLAST</b>	21,80 m <sup>3</sup>

PERFORMANCES	
<b>BOLLARD PULL</b>	35/50/60 tons
<b>SPEED</b>	12 knots (approx.)

MACHINERY & PROPULSION SYSTEM	
<b>MAIN ENGINES</b>	2 x CAT C32/CAT 3512C
<b>TOTAL POWER</b>	2 x 970kW/1.380kW/1765kW
<b>AZIMUTHING STERN DRIVE</b>	2 x SCHOTTEL SRP 260 (max input power:920 bkw) / SRP 340 (max input power:1400 bkw)/ SRP 430 (max input power:1920 bkw) ROLLS ROYCE US155P12 (max input power:1100 bkw)/ US155P18 (max input power:1550 bkw)/ US155P18 (max input power:2000 bkw)
<b>PROPELLERS</b>	1750 mm/2100 mm/2400 mm diameters
<b>SHAFTING</b>	Carbon Fiber Shaft

DECK EQUIPMENT	
<b>ANCHORS &amp; CHAIN</b>	1 x 240kg (HHP) Short link chain 19 mm Gr 2
<b>FORE TOWING WINCH</b>	One (1) piece SEC TEN HORN electric frequency controlled towing winch one (split) towing drum and one warping head. Force and speed ranges: 300 kN at 0-9 m/min , 100 kN at 0-27 m/min
<b>ANCHOR CAPSTAN</b>	One (1) piece SEC TEN HORN electric anchor capstan(s), to suit a 20,5* mm stud link chain with quality U2. Type: EACV – 20,5 U2
<b>CAPSTAN</b>	SEC TEN HORN electric capstan(s)
<b>TOWING HOOK</b>	DATA Quick Release Disc Type Towing Hook, type DTH 70-130P
<b>FENDERS</b>	Rubber, Cylinder, W and D type fendering around the hull)

AUXILIARY EQUIPMENT	
<b>GENERATOR SET</b>	2 x C4.4 86 ekW 1500 rpm 50hz
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore and sewage pump
<b>AIR-CONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore and sewage pump
<b>AIRCONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>VENTILATION</b>	MECHANICAL VENTILATION EXHAUST: 2 x 100 m <sup>3</sup> /hr, 1 x 470 m <sup>3</sup> / hr centrifugal direct driven fan MECHANICAL VENTILATION SUPPLY: 2 x SALOR (reversible,2-speed). Cap. 2 x 28.000 / 14.000 m <sup>3</sup> /hr
<b>EXTERNAL FIRE FIGHTING (FIFI E)</b>	M/E driven fi-fi pump 1 x Main fire pumps Capacity; 1200 m <sup>3</sup> /hr 2 x Monitors : – Foam/water monitor with remote operated, electric controls

ACCOMMODATION	
Accommodation for 6 persons ( <b>8 optional</b> ) MLC-compliant high-quality and great-comfort accommodation is climate-controlled and includes a captain's cabin, an officer cabin and two double crew cabins.	

NAUTICAL AND COMMUNICATION EQUIPMENT	
<b>GMDSS A3 AREA</b>	
<b>SEARCHLIGHT</b>	2 x 24 V, 1000 W (Remote Controlled)
<b>RADAR</b>	JMA-5212-6BB
<b>INMARSAT SSAS</b>	JRC JUE 87
<b>GPS NAVIGATOR</b>	JLR-7500
<b>RADIO SYSTEM</b>	JRC GMDSS A1+A2+A3
<b>SPEED LOG</b>	JLN-205 MK2
<b>BNWAS</b>	NAVITRON NT991 BNWAS
<b>AIS CLAS A</b>	JHS 183
<b>AIS CLAS B</b>	IMARINE3.5
<b>SART, EPIRB</b>	JOTRON 85037/ 83310
<b>WIND SYSTEM</b>	CLIPPER
<b>AUTOPILOT</b>	NT921MKII
<b>NAVTEX</b>	NCR 333
<b>COMPASS</b>	REFLECTA 1 - 1200MM

OPTIONAL EQUIPMENT	
<b>AFT TOWING WINCH</b>	Electric frequency controlled towing winch.
<b>DECK CRANE</b>	TOIMIL T-10500M Cap. 1 ton @8 m or equal.
<b>FIFI 1</b>	Fifi-1 system 2 x Main Engine drive Fire pumps with Capacity; 1,400 m <sup>3</sup> /hr each 2 x Monitors – FFS foam/water monitors Remote operated, electric controls
<b>RESCUE BOAT CRANE</b>	Hydraulic Slewing Davit, type SCH 12-3.5 R SWL: 12 kN
<b>RESCUE BOAT</b>	BRIG 420 CM Foldable Boat

## TUGBOATS

RAL 24/45 CLASS TUG  
2445 ASD TUG





GENERAL	
<b>DESIGN</b>	Robert Allan Ltd. – 24/45 Class Tug
<b>BASIC FUNCTIONS</b>	Towing, pushing, mooring and fire-fighting operations
<b>CLASSIFICATION</b>	BUREAU VERITAS I ✕ HULL ✕ MACH; TUG ✕ AUT-UMS; UNRESTRICTED NAVIGATION; FIRE FIGHTING SHIP E

DIMENSIONS		TANK CAPACITIES	
<b>LENGTH O.A.</b>	24,39 m	<b>FUEL OIL</b>	72,069 m <sup>3</sup>
<b>BEAM O.A.</b>	9,15 m	<b>FRESH WATER</b>	19,092 m <sup>3</sup>
<b>DEPTH (MOULDED)</b>	3,96 m	<b>SLUDGE TANK</b>	2,69 m <sup>3</sup>
<b>DRAUGHT (LOADED)</b>	3,002 m (Above Baseline)	<b>BLACK WATER</b>	3,48 m <sup>3</sup>
<b>GROSS TONNAGE</b>	195 GT	<b>FOAM</b>	14,66 m <sup>3</sup>

PERFORMANCES	
<b>BOLLARD PULL</b>	40/45/50 tons
<b>SPEED</b>	12 knots

MACHINERY & PROPULSION SYSTEM	
<b>MAIN ENGINES</b>	2 x CATERPILLAR 3512C C-RATING
<b>TOTAL POWER</b>	2 x 1230 BKW (1650 BHP) / 1800 RPM
<b>AZIMUTHING STERN DRIVE</b>	2 x SCHOTTEL SRP 340 (max input power:1400 bkW)
<b>PROPELLERS</b>	2100mm dia, CU3 material

DECK EQUIPMENT	
<b>ANCHORS &amp; CHAIN</b>	2 x 262,5 kg (High Holding Power) Total 192,5 m short link chain 17,5 mm Gr 2
<b>ANCHOR &amp; TOWING WINCH</b>	250 with one rope drum, two cable lifters and two warping heads. Spooling gear fitted on drum. drum (Drum Capacity: 40mm dia 1x200 meter) and One chain lifter for chain size 17,5 K2
<b>TOWING HOOK</b>	MAMPAEY Quick Release Disc Type Towing Hook, type DCX. 30/45
<b>AFT TOWING WINCH</b>	1 pc Electrical aft winch One(1) piece GD.ATW –250 with one towing drum (Drum Capacity: 40mm dia 600 meter) an done warping head.
<b>FENDERS</b>	Protected the vessel forward and aft mounted by vertically W type 480x300x1016 (40”)keyhole type rubber fenders. Protected vessel sides full mounted by D-300 type rubber fenders.
<b>LIFE RAFT</b>	2 x on top deck, 8 persons

AUXILIARY EQUIPMENT	
<b>GENERATOR SET</b>	2 x CATERPILLAR C4.4 86 ekW 1500rpm
<b>COOLING WATER SYSTEM</b>	Plate Heat exchanger
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore
<b>AIR-CONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>VENTILATION</b>	Serving Sanitary Main Deck 2 x 60 m <sup>3</sup> centrifugal direct driven fan MECHANICAL VENTILATION SUPPLY: 2 x SALOR 26.500 m <sup>3</sup> /hr.
<b>EXTERNAL FIRE FIGHTING</b>	M/E driven fi-fi pump 1 x Main fire pumps Capacity; 1200 m <sup>3</sup> /hr 1 x Monitors : – Foam/water monitor with remote operated, electric controls

ACCOMMODATION	
Accommodation for <b>6 persons</b> , high-quality and great-comfort accommodation is climate-controlled and includes a captain's cabin, an officer cabin and two double crew cabins.	

NAUTICAL AND COMMUNICATION EQUIPMENT	
<b>JRC - COMPLYING GMDSS A2 AREA</b>	
<b>SEARCHLIGHT</b>	SEEMATZ, 24 V, 1000 W
<b>RADAR</b>	JRC JMA-3334
<b>GPS COMPASS</b>	JRC JLR-21
<b>GPS NAVIGATOR</b>	JRC – JLR - 7500
<b>VHF RADIO</b>	2 x JRC – JSS -2150
<b>WIND SYSTEM</b>	NASA CLIPPER
<b>AIS</b>	I MARINE
<b>ECHOSOUNDER</b>	JRC-600
<b>MAGNETIC COMPASS</b>	CASSEN TYPE 21
<b>AUTOPILOT</b>	NAVITRON – NT921 MKII
<b>NAVTEX</b>	JRC NCR-333
<b>EPRIB</b>	JOTRON TRON 60S
<b>SART</b>	JOTRON TRON AIS SART



## TUGBOATS

RAmparts 2500W  
2560/2570/2575 ASD TUG





GENERAL	
<b>DESIGN</b>	Robert Allan Ltd. – RAmports 2500W
<b>BASIC FUNCTIONS</b>	Towing, pushing, mooring and fire-fighting operations
<b>CLASSIFICATION</b>	RINA C <del>TUG</del> <del>AUT-UMS</del> ; UNRESTRICTED NAVIGATION; MLC DESIGN; GREENSTAR 3
<b>OPTIONAL NOTATION</b>	FIRE-FIGHTING SHIP 1; FIRE- FIGHTING SHIP 1, WATER SPRAYING

DIMENSIONS		TANK CAPACITIES	
<b>LENGTH O.A.</b>	25,60 m	<b>FUEL OIL</b>	96,60 m <sup>3</sup>
<b>BEAM O.A.</b>	12,00 m	<b>FRESH WATER</b>	11,2 m <sup>3</sup>
<b>DEPTH (MOULDED)</b>	4,60 m	<b>SEWAGE</b>	4,8 m <sup>3</sup>
<b>DRAUGHT (LOADED)</b>	5,68 m	<b>OILY WATER</b>	2,0 m <sup>3</sup>
<b>GROSS TONNAGE</b>	365 GT	<b>LUBRICATION OIL</b>	2,0 m <sup>3</sup>
		<b>USED OIL</b>	3,0 m <sup>3</sup>
		<b>FOAM</b>	4,9 m <sup>3</sup>

PERFORMANCES	
<b>BOLLARD PULL</b>	60/70/75 tons
<b>SPEED</b>	12 knots

MACHINERY & PROPULSION SYSTEM	
<b>MAIN ENGINES</b>	2 x WARTSILA 9L20/CATERPILLAR 3512C/3516C
<b>TOTAL POWER</b>	2 x 1800kW/2100kW/2240kW
<b>AZIMUTHING STERN DRIVE</b>	2 x ROLLS ROYCE US205P20 (max. input power: 2000 bkW)/ SCHOTTEL SRP 460 (max. input power: 2240 bkW) CP
<b>PROPELLERS</b>	2400mm/2600mm dia
<b>SHAFTING</b>	Carbon Fiber Shaft

DECK EQUIPMENT	
<b>ANCHORS &amp; CHAIN</b>	1 x 214 kg (High Holding Power) Total 302,5 m short link chain 20.5 mm Gr 2
<b>ANCHOR&amp; TOWING WINCH</b>	SEC TEN HORN electric frequency controlled Anchor Combined Towing Winch Nom. rope speed 1st layer : 0-9 m/min Max. rope speed 1st layer (slack): 0-27 m/min Rope length : 2 x200 m
<b>TOWING HOOK</b>	MAMPAEY Quick Release Disc Type Towing Hook, type DCX. 70/100
<b>AFT TOWING WINCH</b>	Electric frequency controlled Towing Winch with one towing drum, steel wire Nom. rope speed 1stlayer : 0-9 m/min Max. rope speed 1st layer : 0-18 m/min Rope length : 600 m
<b>FENDERS</b>	Rubber Cylindrical bow fender, D and W fendering around the hull

AUXILIARY EQUIPMENT	
<b>GENERATOR SET</b>	2 x CATERPILLAR C4.4 86 ekW 1500rpm
<b>COOLING WATER SYSTEM</b>	Pleat Heat exchanger/Box Cooling System
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore
<b>AIR-CONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>VENTILATION</b>	MECHANICAL VENTILATION EXHAUST: 1 x 50 m <sup>3</sup> , 1 x 100 m <sup>3</sup> 1 x 560 m <sup>3</sup> centrifugal direct driven fan MECHANICAL VENTILATION SUPPLY: 2 x SALOR aircap. 32.000 / 15.500 m <sup>3</sup> /hr 1 x 1000 m <sup>3</sup> /hr Axial centrifugal direct driven fan
<b>EXTERNAL FIRE FIGHTING (Optional)</b>	Fifi-1 system 2 x Main Engine drive Fire pumps with Capacity; 1,400 m <sup>3</sup> /hr each 2 x Monitors – FFS foam/water monitors Remote operated, electric controls

ACCOMMODATION	
Accommodation for <b>6 persons (8 optional)</b> , MLC-compliant high-quality and great-comfort accommodation is climate- controlled and includes a captain's cabin, an officer cabin and two double crew cabins.	

NAUTICAL AND COMMUNICATION EQUIPMENT	
<b>GMDSS A3 AREA</b>	
<b>SEARCHLIGHT</b>	SEEMATZ, 24 V, 1000 W (REMOTE CONTROLLED)
<b>RADAR</b>	JRC JMA-5212-6
<b>GPS COMPASS</b>	JRC JLR-21
<b>GPS NAVIGATOR</b>	JRC – JLR - 7500
<b>VHF RADIO</b>	2 x JRC – JSS -2150
<b>WIND SYSTEM</b>	NASA CLIPPER
<b>AIS</b>	JRC – JHS-183
<b>ECHOSOUNDER</b>	JRC JFE-380-22
<b>MAGNETIC COMPASS</b>	REFLECTA/1-120 MM
<b>AUTOPILOT</b>	NAVITRON – NT921 MKII
<b>NAVTEX</b>	JRC NCR-333
<b>EPRIB</b>	JOTRON TRON 60S
<b>SART</b>	JOTRON TRON AIS SART



## TUGBOATS

RAstar 3000W  
3080ASD TUG





GENERAL	
<b>DESIGN</b>	Robert Allan Ltd. – RAstar 3000W
<b>BASIC FUNCTIONS</b>	Towing, pushing, escorting, mooring, fire-fighting, LNG compatibility
<b>CLASSIFICATION</b>	RINA C ✕ HULL ✕ AMACH; ESCORT TUG; FIRE FIGHTING SHIP 1; WATER SPRAYING; UNRESTRICTED NAVIGATION; AUT-UMS; AUT-PORT; COMF- NOISE C; COMF-VIB C; INWATERSURVEY

DIMENSIONS		TANK CAPACITIES	
<b>LENGTH O.A.</b>	29,70 m	<b>FUEL OIL</b>	203,40 m <sup>3</sup>
<b>BEAM O.A.</b>	13,30 m	<b>FRESH WATER</b>	18,40 m <sup>3</sup>
<b>DEPTH (MOULDED)</b>	5,45 m	<b>SEWAGE</b>	5,20 m <sup>3</sup>
<b>DESIGN DRAFT</b>	4,65 m	<b>OILY WATER</b>	3,90 m <sup>3</sup>
<b>GROSS TONNAGE</b>	476,7GT	<b>MAIN ENGINE LUBE OIL</b>	3,00 m <sup>3</sup>
<b>NET TONNAGE</b>	143 NT	<b>FOAM</b>	10,60 m <sup>3</sup>
		<b>FRESH WATER BALLAST</b>	36,20 m <sup>3</sup>
		<b>GREY WATER</b>	5,20 m <sup>3</sup>
		<b>HYDRAULIC OIL</b>	3,00 m <sup>3</sup>
		<b>USED OIL</b>	3,90 m <sup>3</sup>
		<b>Z DRIVE HYD. OIL</b>	0,40 m <sup>3</sup>
		<b>Z DRIVE LUBE OIL</b>	1,00 m <sup>3</sup>

PERFORMANCES	
<b>BOLLARD PULL</b>	80 tons
<b>SPEED</b>	12 knots (approx.)

MACHINERY & PROPULSION SYSTEM	
<b>MAIN ENGINES</b>	2 x MTU 16V4000M65L
<b>TOTAL POWER</b>	2 x 2560kW @1800 rpm
<b>AZIMUTHING STERN DRIVE</b>	2 x ROLLS ROYCE US 255 P30 FP
<b>PROPELLERS</b>	2800 mm dia
<b>SHAFTING</b>	Carbon Fiber Shaft

DECK EQUIPMENT	
<b>ANCHORS &amp; CHAIN</b>	2 x 495kg (HHP) Short link chain 20.5 mm Gr 3
<b>FORE TOWING WINCH</b>	One (1) piece SEC TEN HORN electric frequency controlled towing winch one (split) towing drum and one warping head. Force and speed ranges: 300 kN at 0-9 m/min , 100 kN at 0-27 m/min
<b>ANCHOR CAPSTAN</b>	One (1) piece ROLLS ROYCE ETWH 2500/1200 /AW20,5 heavy duty escort towing winch
<b>CAPSTAN</b>	DATA HIDROLIK DHC 5000 E40PI/P/11 5 ton electric driven capstan
<b>TOWING HOOK</b>	DATA HIDROLIK Quick Release Disc Type Towing Hook, type DTH 90-135P
<b>FENDERS</b>	Rubber, Cylinder, W and D type fendering around the hull

AUXILIARY EQUIPMENT	
<b>GENERATOR SET</b>	2 x C4.4 99 ekW 1500 rpm 50hz
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore and sewage pump
<b>AIR-CONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>VENTILATION</b>	MECHANICAL VENTILATION EXHAUST: 2 x 100 m <sup>3</sup> /hr, 1 x 470 m <sup>3</sup> /hr centrifugal direct driven fan MECHANICAL VENTILATION SUPPLY: 2 x SALOR (reversible,2-speed). Cap. 2 x 35.000 m <sup>3</sup> /hr. / Axial HUA-S 250-10-2 1x1.000 m <sup>3</sup> /hr.
<b>EXTERNAL FIRE FIGHTING (FIFI 1)</b>	M/E driven fi-fi pump 2 x Main fire pumps Capacity; 2x1350 m <sup>3</sup> /hr 2 x Monitors : – Foam/ water monitor with remote operated, electric controls

ACCOMMODATION	
Accommodation for <b>8 persons</b> MLC-compliant high-quality and great-comfort accommodation is climate-controlled and includes a captain's cabin, an officer cabin and two double crew cabins.	

NAUTICAL AND COMMUNICATION EQUIPMENT	
<b>GMDSS A3 AREA</b>	
<b>SEARCHLIGHT</b>	2 x 24 V, 1000 W (Remote Controlled)
<b>RADAR</b>	JMA-5212-6BB
<b>INMARSAT SSAS</b>	JRC JUE 87
<b>GPS NAVIGATOR</b>	JLR-7500
<b>RADIO SYSTEM</b>	JRC GMDSS A1+A2+A3
<b>SPEED LOG</b>	JLN-205 MK2
<b>BNWAS</b>	NAVITRON NT991 BNWAS
<b>AIS CLAS A</b>	JHS 183
<b>AIS CLAS B</b>	IMARINE3.5
<b>SART, EPIRB</b>	JOTRON 85037/ 83310
<b>WIND SYSTEM</b>	CLIPPER
<b>AUTOPILOT</b>	NT921MKII
<b>NAVTEX</b>	NCR 333
<b>COMPASS</b>	REFLECTA 1 - 1200MM

OPTIONAL EQUIPMENT	
<b>AFT TOWING WINCH</b>	Hydraulic driven towing winch.
<b>DECK CRANE</b>	PALFINGER PK18500(M)B Cap. SWL 1460 kg @ 10,2 m
<b>RESCUE BOAT CRANE</b>	Hydraulic Slewing Davit, type SCH 12-3.5 R SWL: 12 kN
<b>RESCUE BOAT</b>	SURVITEC RIBO DSB-5.1 SR/SOLAS

## TUGBOATS

RAmparts 3200  
3265/3270/3275 ASD TUG





GENERAL	
<b>DESIGN</b>	Robert Allan Ltd. – RAmports 3200
<b>BASIC FUNCTIONS</b>	Towing, pushing, mooring, oil recovering, escort ship, salvage tug and fire-fighting operations
<b>CLASSIFICATION</b>	RINA C <del>X</del> TUG <del>X</del> AUT-UMS; UNRESTRICTED NAVIGATION; MLC DESIGN; GREENSTAR 3, ESCORT TUG
<b>OPTIONAL NOTATION</b>	FIRE-FIGHTING SHIP 1; WATER SPRAYING OIL RECOVERY; SALVAGE TUG

DIMENSIONS		TANK CAPACITIES	
<b>LENGTH O.A.</b>	32,00 m	<b>FUEL OIL</b>	155,70 m <sup>3</sup>
<b>BEAM O.A.</b>	11,60 m	<b>FRESH WATER</b>	40,8 m <sup>3</sup>
<b>DEPTH (MOULDED)</b>	5,36 m	<b>SEWAGE HOLDING</b>	3,80 m <sup>3</sup>
<b>DRAUGHT (LOADED)</b>	4,19 m (Above Baseline)	<b>OILY WATER</b>	4,00 m <sup>3</sup>
<b>GROSS TONNAGE</b>	476,2 GT	<b>LUBRICATION OIL</b>	1,70 m <sup>3</sup>
		<b>DISPERSANT</b>	8,20 m <sup>3</sup>
		<b>FOAM</b>	15,80 m <sup>3</sup>

PERFORMANCES	
<b>BOLLARD PULL</b>	65/70/75 tons
<b>SPEED</b>	12 knots

MACHINERY & PROPULSION SYSTEM	
<b>MAIN ENGINES</b>	2 x CATERPILLAR 3516C
<b>TOTAL POWER</b>	2 x 2000 kW/2100 kW/2240kW
<b>AZIMUTHING STERN DRIVE</b>	2 x SCHOTTEL SRP 460 (max. input power: 2240 bkw CP or FP)
<b>PROPELLERS</b>	2600mm dia
<b>SHAFTING</b>	Carbon Fiber Shaft

DECK EQUIPMENT	
<b>ANCHORS &amp; CHAIN</b>	2 x 495 kg (High Holding Power) Total 302,5 m short link chain 20.5 mm Gr 3
<b>ANCHOR&amp; TOWING WINCH</b>	Double Drum SEC TEN HORN electric frequency controlled anchor combined Escort Winch, two towing drums and two warping heads. 700 kN @ 0-5 m/min 200 kN @ 0-15 m/min 28 kN @ 0-100 m/min pay-out Two (2) pieces ratched roller chain stoppers
<b>TOWING HOOK</b>	MAMPAEY Quick Release Disc Type Towing Hook, type DCX. 70/100
<b>TOWING PIN</b>	DATA HIDROLIK - DTP 12SH type model hydraulic towing pin. Safe Bollard Pull: 15° 268 tons 30° 135 tons 45° 92 tons 90° 50 tons
<b>AFT TOWING WINCH</b>	SEC TEN HORN electric frequency controlled towing winch with one towing drum and one warping head.
<b>FENDERS</b>	Rubber Cylindrical bow fender, D and W fendering around the hull

AUXILIARY EQUIPMENT	
<b>GENERATOR SET</b>	2 x CATERPILLAR C9 175 ekW 1500 rpm
<b>HARBOUR GEN.</b>	1 x CATERPILLAR C4.4 86 ekW 1500rpm
<b>COOLING WATER SYSTEM</b>	Pleat Heat exchanger/Box Cooling System(Optional)
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore
<b>AIR-CONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>VENTILATION</b>	MECHANICAL VENTILATION EXHAUST: 1 x 100 m <sup>3</sup> , 1 x 150 m <sup>3</sup> 1 x 580m <sup>3</sup> 1 x 1000 m <sup>3</sup> centrifugal direct driven fan MECHANICAL VENTILATION SUPPLY: 2 x 37.500m <sup>3</sup> /hr
<b>EXTERNAL FIRE FIGHTING (Optional)</b>	Fifi-1 system 2 x Main Engine drive Fire pumps with Capacity; 1,400 m <sup>3</sup> /hr each 2 x Monitors – FFS foam/water monitors Remote operated, electric controls

ACCOMMODATION	
Accommodation for <b>8 persons</b> , MLC-compliant high-quality and great-comfort accommodation is climate-controlled and includes a captain's cabin, an officer cabin and three double crew cabins.	

NAUTICAL AND COMMUNICATION EQUIPMENT	
<b>COMPLYING GMDSS A3 AREA</b>	
<b>SEARCHLIGHT</b>	SEEMATZ, 24 V, 1000 W (REMOTE CONTROLLED)
<b>RADAR</b>	JRC JMA-5212-6
<b>GPS COMPASS</b>	JRC JLR-21
<b>GPS NAVIGATOR</b>	JRC – JLR - 7500
<b>VHF RADIO</b>	2 x JRC – JSS -2150
<b>WIND SYSTEM</b>	NASA CLIPPER
<b>AIS</b>	JRC – JHS-183
<b>ECHOSOUNDER</b>	JRC JFE-380-22
<b>MAGNETIC COMPASS</b>	REFLECTA/1-120 MM
<b>AUTOPILOT</b>	NAVITRON – NT921 MKII
<b>NAVTEX</b>	JRC NCR-333
<b>EPRIB</b>	JOTRON TRON 60S
<b>SART</b>	JOTRON TRON AIS SART



## TUGBOATS

RAstar 3600  
3695 ASD TUG





GENERAL	
<b>DESIGN</b>	Robert Allan Ltd. – RAstar 3600
<b>BASIC FUNCTIONS</b>	Towing, pushing, mooring, fire-fighting operations, oil recovering operations
<b>CLASSIFICATION</b>	BUREAU VERITAS I ✕ HULL ✕ MACHINERY ✕ AUT-UMS SALVAGE TUG, ESCORT TUG, FIRE FIGHTING SHIP 1, WATER SPRAYING, UNRESTRICTED NAVIGATION, OIL RECOVERY

DIMENSIONS		TANK CAPACITIES	
<b>LENGTH O.A.</b>	35,08 m	<b>FUEL OIL</b>	234,00 m <sup>3</sup>
<b>BEAM O.A.</b>	14,5 m	<b>FRESH WATER</b>	136,00 m <sup>3</sup>
<b>DEPTH (MOULDED)</b>	6,03 m	<b>SEWAGE</b>	2,00 m <sup>3</sup>
<b>DRAFT AT DWL</b>	4,75 m (Above Baseline)	<b>OILY WATER</b>	3,00 m <sup>3</sup>
<b>GROSS TONNAGE</b>	724 GT	<b>LUBRICATION OIL</b>	2,00 m <sup>3</sup>
<b>NET TONNAGE</b>	217 NT	<b>FOAM</b>	36,00 m <sup>3</sup>
		<b>SEA WATER BALLAST</b>	35,00 m <sup>3</sup>

PERFORMANCES	
<b>BOLLARD PULL</b>	95/100 tons
<b>SPEED</b>	13,5 knots

MACHINERY & PROPULSION SYSTEM	
<b>MAIN ENGINES</b>	2 x WÄRTSILÄ 9L26
<b>TOTAL POWER</b>	2 x 3060 kW 1000rpm
<b>AZIMUTHING STERN DRIVE</b>	2 x LCT CS300-S/WN-K
<b>PROPELLERS</b>	3000 mm dia, Ni Al Bronze

DECK EQUIPMENT	
<b>ANCHORS &amp; CHAIN</b>	2 x 600kg (HHP) Short link chain 26 mm Gr 3
<b>ANCHOR &amp; TOWING WINCH</b>	One (1) piece PLIMSOLL PC-HEATW/GDDG-26-50/250 Hydraulic escort towing winch with Type Double Gypsy, Double Drum in side by side arrangement c/w independent split drive, double warp end gypsy size 26 mm grade 3 Chain stopper type PLIMSOLL PC-KCS/24
<b>TOWING HOOK</b>	PLIMSOLL Quick Release Disc Type Towing Hook, type PLIMSOLL PC-PTH-100 / 100T SWL
<b>STERN ROLLER</b>	DATA HIDROLIK ø100mm x 2000 mm
<b>TOW PIN</b>	DATA HIDROLIK DTP12SH
<b>KNUCKLE BOOM CRANE</b>	KM 900 L2 E3 8.0T @ 10,0m outreach
<b>RESCUE BOAT CRANE</b>	NED MARINE PRHE 20 2000KG
<b>RESCUE BOAT</b>	JOKER JF 420 ST
<b>FENDERS</b>	Rubber, Cylinder, W and D type fendering around the hull

AUXILIARY EQUIPMENT	
<b>GENERATOR SET</b>	2 x MARGEN (Scania/Leroy Somer) 315kW, 394kVA,
<b>FRESH WATER SYSTEM</b>	Electrical hydrophore
<b>AIR-CONDITIONING</b>	HEINEN HOPMAN: Secondary AC unit in wheelhouse Cold climate package Hot climate package
<b>VENTILATION</b>	MECHANICAL VENTILATION EXHAUST: 2 x 300 m <sup>3</sup> /hr, 1 x 850 m <sup>3</sup> /hr centrifugal direct driven fan MECHANICAL VENTILATION SUPPLY: 2 x SALOR VM 1000-10-4 aircap. 2 x 38.000m <sup>3</sup> /hr
<b>EXTERNAL FIRE FIGHTING</b>	Fifi-1 system 2 x Main Engine drive Fire pumps with Capacity; 1,400 m <sup>3</sup> /hr each 2 x Monitors – FFS foam/water monitors Remote operated, electric controls

ACCOMMODATION	
Accommodation for <b>10 persons</b> , high-quality and great-comfort accommodation is climate-controlled and includes a captain's cabin, an officer cabin and four double crew cabins.	

NAUTICAL AND COMMUNICATION EQUIPMENT	
<b>GMDSS A3 AREA</b>	
<b>SEARCHLIGHT</b>	2 x WISKA, 24 V, 1000 W
<b>RADAR</b>	2 x JRC-JMA 5310-6,96NM
<b>INMARSAT SSAS</b>	JRC JUE 85
<b>GPS NAVIGATOR</b>	JRC / LORENZ NWZ 4570
<b>RADIO SYSTEM</b>	JRC GMDSS A1+A2+A3
<b>SPEED LOG</b>	JRC DOPPLER JLN 205
<b>AIS, SART, EPIRB</b>	JRC / JOTRON, JHS 182 / JOTRON
<b>ECHOSOUNDER</b>	JRC JFE 380
<b>AUTOPILOT</b>	JRC NT 991G CMZ 700S
<b>NAVTEX</b>	JRC NCR 333
<b>COMPASS</b>	LILLEY & GILLIE, SCH 146



## CHEMICAL - OIL TANKERS

5300 DWT STST





**GENERAL**

<b>BASIC FUNCTIONS</b>	Chemical / Oil Tanker
<b>CLASSIFICATION</b>	BUREAU VERITAS I HULL & MACHINERY, OIL CHEMICAL TANKER ESP, UNRESTRICTED NAVIGATION, AUT- UMS, CLEAN SHIP, MON-SHAFT, ICE-CLASS 1A, MANOVR, IMO II, VCS, INWATERSURVEY

**MAIN PARTICULARS (approx.)**

<b>LENGTH OVERALL</b>	99,40 m
<b>LENGTH BETW. PERP.</b>	93,70 m
<b>BREADTH, MLD</b>	17,2 m
<b>DEPTH, MLD</b>	10,50 m
<b>DRAUGHT, DESIGN</b>	6,90 m
<b>DEADWEIGHT</b>	5.300 DWT
<b>SERVICE SPEED</b>	14,1 knots
<b>COMPLEMENT</b>	17

**TANK CAPACITIES (approx.)**

<b>CARGO TANK 1P&amp;STB</b>	1.063,7 cbm
<b>CARGO TANK 2P&amp;STB</b>	1.688 cbm
<b>CARGO TANK 3P&amp;STB</b>	298,7 cbm
<b>CARGO TANK 4P&amp;STB</b>	1.053,3 cbm
<b>CARGO TANK 5P&amp;STB</b>	1.124,2 cbm
<b>CARGO TANK 6P&amp;STB</b>	1.140,7 cbm
<b>TOTAL :</b>	6.368,6 cbm
<b>MAX. CARGO DENSITY</b>	1,86 t/cbm

**MACHINERY**

<b>MAIN ENGINE</b>	MAN 8L32/40
<b>POWER / RPM</b>	4000 kW at 750 rpm
<b>SPECIFIC FUEL CONSUMPTION</b>	abt. 42700 kj/kg
<b>CONTROLLABLE PITCH PROPELLER</b>	abt. 134 rpm
<b>BOW THRUSTER (kW)</b>	390 kW
<b>POWER SUPPLY DIESEL GENERATORS</b>	3X585 kW
<b>EMERGENCY DIESEL GENERATOR</b>	130 kW
<b>SHAFT ALTERNATOR</b>	abt. 1420 kVA
<b>VOLTAGE &amp; FREQUENCY OF VESSEL</b>	440 V & 60 Hz
<b>CARGO PUMPING SYSTEM</b>	12 x abt. 150 m <sup>3</sup> /h Electrically Driven Deepwell Pump CARGO



# CHEMICAL - OIL TANKERS

7000 DWT





**GENERAL**

<b>BASIC FUNCTIONS</b>	Chemical / Oil Tanker
<b>CLASSIFICATION</b>	BUREAU VERITAS HULL&MACHINERY, OIL CHEMICAL TANKER ESP, UNRESTRICTED NAVIGATION, AUT-UMS, CLEAN SEA, CLEAN AIR, MON SHAFT, ICE CLASS 1A, IG, USCG, MANOVR, COMF-NOISE, AVM-APS, IMO II, VCSİ INWATERSURVEY

**MAIN PARTICULARS (approx.)**

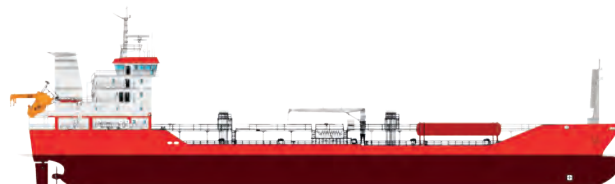
<b>LENGTH OVERALL</b>	119,10 m
<b>LENGTH BETW. PERP.</b>	111,60 m
<b>BREADTH, MLD</b>	16,90 m
<b>DEPTH, MLD</b>	8,40 m
<b>DRAUGHT, DESIGN</b>	6,65 m
<b>DEADWEIGHT</b>	7.000 DWT
<b>SERVICE SPEED</b>	14,5 knots
<b>COMPLEMENT</b>	17+1

**TANK CAPACITIES (approx.)**

<b>CARGO TANK 1P&amp;STB</b>	424 cbm
<b>CARGO TANK 2P&amp;STB</b>	756 cbm
<b>CARGO TANK 3P&amp;STB</b>	651 cbm
<b>CARGO TANK 4P&amp;STB</b>	805 cbm
<b>CARGO TANK 5P&amp;STB</b>	651 cbm
<b>CARGO TANK 6P&amp;STB</b>	749 cbm
<b>SLOP TANK P</b>	89 cbm
<b>SLOP TANK S</b>	77 cbm
<b>TOTAL:</b>	8238 cbm

**MACHINERY**

<b>MAIN ENGINE</b>	MAN 8L32/40
<b>POWER / RPM</b>	3840 kW at 720 rpm
<b>SPECIFIC FUEL CONSUMPTION</b>	abt.42700kj/kg
<b>CONTROLLABLE PITCH PROPELLER</b>	abt.145 rpm
<b>BOW THRUSTER (kW)</b>	350 kW
<b>DIESEL GENERATOR</b>	3X485 kW / 1800 rpm
<b>SHAFT GENERATOR</b>	110 kW / 1800 rpm



# CHEMICAL - OIL TANKERS

8400 DWT





**GENERAL**

<b>BASIC FUNCTIONS</b>	Chemical / Oil Tanker
<b>CLASSIFICATION</b>	BUREAU VERITAS I ✘ HULL ✘ MACH OIL TANKER ESP, CHEMICAL TANKER ESP UNRESTRICTED NAVIGATION ✘ AVM-APS, ✘ AUT-UMS, MON- SHAFT, CLEANSHIP, ICE CLASS IA, INWATERSURVEY, VCS, MANOVR, IG

**MAIN PARTICULARS (approx.)**

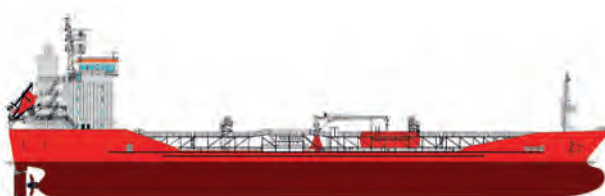
<b>LENGTH OVERALL</b>	123,900 m
<b>LENGTH BETW. PERP.</b>	116,267 m
<b>BREADTH, MLD</b>	17,20 m
<b>DEPTH, MLD</b>	9,20 m
<b>DRAUGHT, DESIGN</b>	6,70 m
<b>DEADWEIGHT</b>	8.400 DWT
<b>SERVICE SPEED</b>	14,0 knots
<b>COMPLEMENT</b>	17+1

**TANK CAPACITIES (approx.)**

<b>CARGO TANK 1P&amp;STB</b>	1.708,88 cbm
<b>CARGO TANK 2P&amp;STB</b>	1.565,49 cbm
<b>CARGO TANK 3P&amp;STB</b>	1.572,026 cbm
<b>CARGO TANK 4P&amp;STB</b>	1.654,76 cbm
<b>CARGO TANK 5P&amp;STB</b>	1.323,81 cbm
<b>CARGO TANK 6P&amp;STB</b>	1.347,838 cbm
<b>SLOP TANK P&amp;S</b>	187,761 cbm
<b>TOTAL:</b>	9.360,570 cbm

**MACHINERY**

<b>MAIN ENGINE</b>	MAK/8M32C
<b>POWER / RPM</b>	4000 kW at 600 rpm
<b>SPECIFIC FUEL CONSUMPTION</b>	abt.177g/kWh at 85% output
<b>CONTROLLABLE PITCH PROPELLER</b>	abt.139 rpm
<b>BOW THRUSTER (kW)</b>	430 kW
<b>POWER SUPPLY DIESEL GENERATORS</b>	585kW at 1800 rpm
<b>EMERGENCY DIESEL GENERATOR</b>	1400 kW
<b>SHAFT GENERATOR</b>	585kW at 1800 rpm
<b>VOLTAGE &amp; FREQUENCY OF VESSEL</b>	440 V- 60 Hz
<b>CARGO PUMPING SYSTEM</b>	Hydraulic Deepwell Cargo Pump



## CHEMICAL - OIL TANKERS

# 11240 DWT ST. LAWRENCE FITTED





**GENERAL**

<b>BASIC FUNCTIONS</b>	Chemical / Oil Tanker
<b>CLASSIFICATION</b>	BUREAU VERITAS OIL AND CHEMICAL TANKER ESP, IMO TYPE II, UNRESTRICTED NAVIGATION, ICE 1A, CLEAN SEA, CLEAN AIR, AUT-UMS, AVM-APS, IG, MON- SHAFT, INWATERSURVEY, CARGO CONTROL, VCS

**MAIN PARTICULARS (approx.)**

<b>LENGTH OVERALL</b>	129,85 m
<b>LENGTH BETW. PERP.</b>	124,65 m
<b>BREADTH, MLD</b>	19,80 m
<b>DEPTH, MLD</b>	9,95 m
<b>DRAUGHT, DESIGN</b>	7,45 m
<b>DEADWEIGHT</b>	11.240 DWT
<b>SERVICE SPEED</b>	13,0 knots
<b>COMPLEMENT</b>	16+1

**TANK CAPACITIES (approx.)**

<b>CARGO TANK 1P&amp;STB</b>	1.490cbm
<b>CARGO TANK 2P&amp;STB</b>	1.779cbm
<b>CARGO TANK 3P&amp;STB</b>	1.845cbm
<b>CARGO TANK 4P&amp;STB</b>	1.843cbm
<b>CARGO TANK 5P&amp;STB</b>	1.844cbm
<b>CARGO TANK 6P&amp;STB</b>	1.839cbm
<b>CARGO TANK 7P&amp;STB</b>	1.633cbm
<b>SLOP TANK P&amp;S</b>	247cbm
<b>TOTAL:</b>	12.520cbm

**MACHINERY**

<b>MAIN ENGINE</b>	MAK/9M32C
<b>POWER / RPM</b>	4500 kW at 600 rpm
<b>SPECIFIC FUEL CONSUMPTION</b>	abt.177g/kWh at 85% output
<b>CONTROLLABLE PITCH PROPELLER</b>	abt.155 rpm
<b>BOW THRUSTER (KW)</b>	500 kW
<b>DIESEL GENERATORS</b>	590kW at 1800 rpm
<b>EMERGENCY GENERATOR</b>	150kW at 1800 rpm
<b>SHAFT GENERATOR</b>	1500kW at 1800 rpm
<b>VOLTAGE &amp; FREQUENCY OF VESSEL</b>	440 V- 60 Hz
<b>CARGO PUMPING SYSTEM</b>	14 FRAMO Cargo pumps at 335 m3/hr each



## CHEMICAL - OIL TANKERS

25.000 DWT



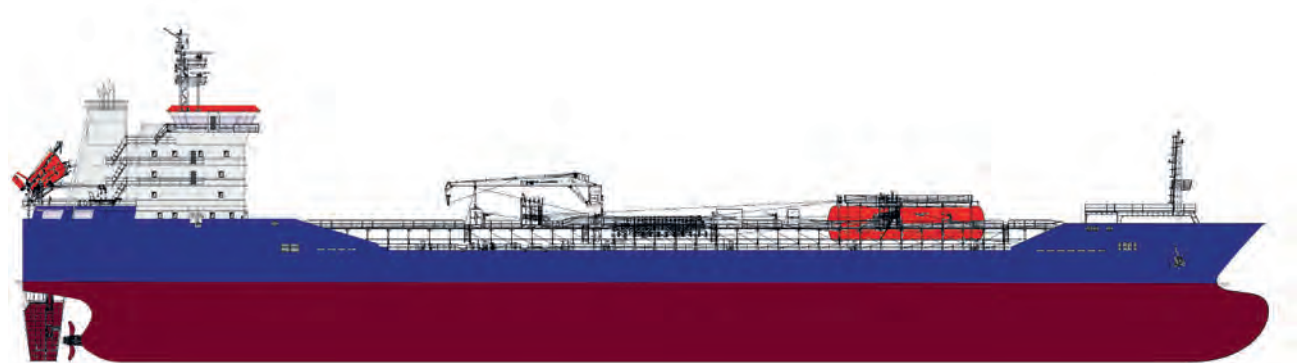


GENERAL	
<b>BASIC FUNCTIONS</b>	Chemical / Oil Tanker
<b>CLASSIFICATION</b>	BUREAU VERITAS I✘HULL ✘MACH OIL TANKER CSR ESP, CHEMICAL TANKER ESP UNRESTRICTED NAVIGATION ETA, ✘AUT-UMS, MON-SHAFT, CLEANSHIP 1, ICE CLASS IA, INWATERSURVEY, VCS, MONOVR, IG

MAIN PARTICULARS (approx.)	
<b>LENGTH OVERALL</b>	169,90 m
<b>LENGTH BETW. PERP.</b>	159,08 m
<b>BREADTH, MLD</b>	25,40 m
<b>DEPTH, MLD</b>	14,90 m
<b>DRAUGHT, DESIGN</b>	10,90 m
<b>DEADWEIGHT</b>	25.000 DWT
<b>SERVICE SPEED</b>	14,0 knots
<b>COMPLEMENT</b>	25+1

TANK CAPACITIES (approx.)	
<b>CARGO TANK 1P&amp;STB</b>	3.956,593 cbm
<b>CARGO TANK 2P&amp;STB</b>	4.548,529 cbm
<b>CARGO TANK 3P&amp;STB</b>	4.851,398 cbm
<b>CARGO TANK 4P&amp;STB</b>	4.859,279 cbm
<b>CARGO TANK 5P&amp;STB</b>	4.853,253 cbm
<b>CARGO TANK 6P&amp;STB</b>	2.390,917 cbm
<b>CARGO TANK 7P&amp;STB</b>	4.930,354 cbm
<b>SLOP TANK P&amp;S</b>	630,035 cbm
<b>TOTAL:</b>	31.014,40 cbm

MACHINERY	
<b>MAIN ENGINE</b>	MAK8M43C
<b>POWER / RPM</b>	7200 kW at 500 rpm
<b>SPECIFIC FUEL CONSUMPTION</b>	abt.175g/kWh at 85% output
<b>BOW THRUSTER (kW)</b>	750 KW
<b>POWER SUPPLY DIESEL GENERATORS</b>	1025kW at 900 rpm
<b>EMERGENCY DIESEL GENERATOR</b>	200kW at 1800 rpm
<b>SHAFT GENERATOR</b>	1800 Kw
<b>VOLTAGE &amp; FREQUENCY OF VESSEL</b>	450 V - 60 Hz
<b>CARGO PUMPING SYSTEM</b>	Hydraulic Deepwell Cargo Pump



## MOORING BOATS

# 11M MOORING BOAT





**GENERAL**

<b>DESIGN</b>	11M Mooring Boat
<b>HULL</b>	Steel
<b>SUPERSTRUCTURE</b>	Aluminium

**DIMENSIONS (approx.)**

<b>LENGTH OVERALL</b>	10,946m
<b>BEAM OVERALL</b>	3,832m
<b>DEPTH</b>	1,930m
<b>DESIGN DRAFT</b>	1,10m
<b>GROSS TONNAGE</b>	20t

**TANK CAPACITIES (approx.)**

<b>FRESH WATER</b>	0,51 m <sup>3</sup>
<b>SEWAGE</b>	0,6 m <sup>3</sup>
<b>FUEL OIL (PORT)</b>	1,22 m <sup>3</sup>
<b>FUEL OIL (STB)</b>	1,22 m <sup>3</sup>

**MACHINERY & PROPULSION SYSTEM**

<b>MAIN ENGINE</b>	VOLVO   Model: D7C TA MH (FE)
<b>TOTAL POWER</b>	195 kW at 2300 rpm
<b>GEARBOX</b>	1 x ZF 286
<b>REDUCTION RATIO</b>	1:2,97
<b>FLEXIBLE COUPLING</b>	VULKAN   Model: VULKARDANE 3414 – 11,5”
<b>PROPELLER</b>	TEIGNBRIDGE FP propeller 800 mm dia, Cu3 / CuAl10Ni
<b>PROPELLER RPM</b>	788 rpm (approx.)
<b>SHAFT</b>	316L Stainless Steel, D: 70mm, L: 3710mm
<b>NOZZLE</b>	Steerable Propeller Nozzle
<b>STEERING GEAR</b>	1 x DDS 290S DATA

**DECK EQUIPMENT**

<b>TOWING HOOK</b>	DATA DTH 15-30
<b>FENDERS</b>	Rubber, Cylinder, D type fendering around the hull

**AUXILIARY EQUIPMENT**

<b>GEN SET</b>	PAGURO 6000, 5kW 3000 rpm
<b>BATTERIES</b>	4 x 12V 225 Ah
<b>AIR CONDITIONING</b>	9000 BTU Split Airconditioner x 1
<b>BILGE PUMP</b>	2 x Rule Mate 2000 GL 24V
<b>MACERATOR PUMP</b>	TMC Mercator Pump 24V 12 GPM
<b>HYDROPHORE</b>	FLOJET R2840301 ( 24V)
<b>WINDOWS WIPER</b>	Straight Line D Type
<b>MINI COOLING REFRIGIRATOR</b>	KLEO KMB 60 12/24 VDC

**NAUTICAL AND COMMUNICATION EQUIPMENTS**

<b>GMDSS VHF</b>	ICOM IC-M-411
<b>CHART PLOTTER</b>	PCP 207
<b>AIS (B CLASS)</b>	IMARINE 3,5
<b>ECHOSOUNDER</b>	JFC 7050
<b>COMPASS</b>	12 volt mini



## MOORING BOATS

# 13,9M MOORING BOAT





**GENERAL**

<b>DESIGN</b>	13,9M Mooring Boat
<b>CLASSIFICATION</b>	RINA C $\otimes$ Hull $\bullet$ Mach, Coastal Navigation, Special Navigation (Mooring Boat)
<b>HULL</b>	Steel
<b>SUPERSTRUCTURE</b>	Aluminium

**DIMENSIONS (approx.)**

<b>LENGTH OVERALL (incl. Fenders)</b>	14,061m
<b>LENGTH (Hull)</b>	13,9m
<b>BREADTH OVERALL</b>	5,508m
<b>DEPTH</b>	2,955m
<b>DESIGN DRAFT</b>	2,0m
<b>GROSS TONNAGE</b>	

**TANK CAPACITIES (approx.)**

<b>FRESH WATER</b>	0,68 m <sup>3</sup>
<b>SEWAGE</b>	0,35 m <sup>3</sup>
<b>BILGE</b>	0,35 m <sup>3</sup>
<b>FUEL OIL (PORT)</b>	2,96 m <sup>3</sup>
<b>FUEL OIL (STB)</b>	2,96 m <sup>3</sup>

**MACHINERY & PROPULSION SYSTEM**

<b>MAIN ENGINES</b>	2 x VOLVO   Model: D9 MH 2200RPM
<b>TOTAL POWER</b>	850 HP
<b>GEARBOX</b>	1 x ZF W320
<b>REDUCTION RATIO</b>	2,958:1
<b>PROPELLER</b>	2 x TEIGNBRIDGE
<b>PROPELLER DIAMETER</b>	800 mm
<b>SHAFT</b>	2 x Stainless steel F51 Duplex D:90mm
<b>NOZZLE</b>	Mild Steel with inner stainless steel ring
<b>STEERING GEAR</b>	DATA HİDROLİK DDS 2x290S

**DECK EQUIPMENT**

<b>TOWING HOOK</b>	MAMPAEY MXX.015
<b>FENDERS</b>	ERMAKSAN 200x200 K HOLE FENDER & 160X160 D Fender

**AUXILIARY EQUIPMENT**

<b>GEN SET</b>	LOMBARDINI LMG 9000 MG 8 KW @ 3000 RPM
<b>AIR CONDITIONING</b>	Split Airconditioner
<b>BILGE PUMP</b>	
<b>MACERATOR PUMP</b>	
<b>HYDROPHORE</b>	
<b>WINDOWS WIPER</b>	
<b>MINI COOLING REFRIGIRATOR</b>	

**NAUTICAL AND COMMUNICATION EQUIPMENTS**

<b>VHF</b>	ENTEL HT644 HAND HELD MARINE VHF
<b>CHART PLOTTER</b>	FURUNO GPS/WAAS CHART PLOTTER
<b>AIS (B CLASS)</b>	İ-AIS KLAS-B AIS TRANSPONDER
<b>ECHOSOUNDER</b>	FURUNO GPS/WAAS CHART PLOTTER WITH FISH FINDER



## PILOT BOATS

# 13,5M PILOT BOAT





**GENERAL**

<b>CLASSIFICATION</b>	TURKISH LLOYD
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**DIMENSIONS (approx.)**

<b>LENGTH OVERALL</b>	13,5m
<b>BEAM OVERALL</b>	4,50m
<b>DESIGN DRAFT</b>	2,15m
<b>GROSS TONNAGE</b>	35,66t

**TANK CAPACITIES (approx.)**

<b>FUEL OIL</b>	3,4 t
<b>FRESH WATER</b>	2 t

**PERFORMANCES**

<b>SPEED</b>	26 knots
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**NAUTICAL AND COMMUNICATION EQUIPMENT**

<b>JRC - COMPLYING GMDSS A1 AREA</b>	
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<b>RADAR</b>	JRG JMA 1100
<b>ECHOSOUNDER</b>	FURUNO COLOR WIDEO FCV667
<b>ICOM VHF MARINE HANDHELD</b>	ICOM 16M4016
<b>MAGNETIC COMPASS</b>	PLASTIMO OFFSOES 135

**MACHINERY & PROPULSION SYSTEM**

<b>MAIN ENGINES</b>	2 x VOLVO PENTA D 12 D MH / 2 x MAN D 2866 LXE 40
<b>TOTAL POWER</b>	2 x 550 BHP at 1900 rpm / 2 x 440 BHP at 2200 rpm
<b>GENSET</b>	ONAN MARINE MDKAW5636384



## PILOT BOATS

# 14M ALUMINIUM PILOT BOAT





**GENERAL**

<b>DESIGN</b>	Camarc Design Ltd. 14M Aluminium Boat
<b>CLASSIFICATION</b>	RINA C $\otimes$ HULL $\bullet$ Mach Fast Pilot Boat, Lightship, Sea Area3

**DIMENSIONS (approx.)**

<b>LENGTH OVERALL</b>	14,30m
<b>BEAM OVERALL</b>	4,50m
<b>DESIGN DRAFT</b>	1,30m
<b>GROSS TONNAGE</b>	20t

**TANK CAPACITIES (approx.)**

<b>FUEL OIL</b>	1165 L x 2
<b>FRESH WATER</b>	250L

**PERFORMANCES**

<b>SPEED</b>	27 knots (approx.)
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**MACHINERY & PROPULSION SYSTEM**

<b>MAIN ENGINES</b>	2 x VOLVO D13 MH (FE)
<b>TOTAL POWER</b>	2 x 404 kW at 1900 rpm
<b>DIRECT DRIVE</b>	2 x TEIGNBRIDGE BS1400
<b>GENSET</b>	1 x PAGURO 6 Kw
<b>PROPELLERS</b>	800 mm dia, 4 blade

**NAUTICAL AND COMMUNICATION EQUIPMENT****JRC - COMPLYING GMDSS A1 AREA**

<b>RADAR</b>	JMA-3334
<b>RADIO TELEPHONE A CLASS</b>	JHS-770S
<b>CHARTPLOTTER</b>	PCP 207
<b>AIS CLAS B</b>	IMARINE BB
<b>ECHO SOUNDER</b>	SES-2000
<b>ICOM VHF MARINE HANDHELD</b>	ICM 31
<b>TALKBACK</b>	CIS-3100
<b>MAGNETIC COMPASS</b>	TYPE 21









## TOWAGE & PILOTAGE

Med Marine is Turkey's leading tugboat operator, providing a broad range of services in towage, pilotage, emergency response, salvage and wreck removal, pollution prevention, ship escort and chartering. Med Marine fleet consists of ASD type and conventional tugs ranging from 30TBP to 70TBP.

Izmit Bay hosts 36 separate terminals where 13 tugboats and 7 mooring boats belonging to Med Marine are operating. Iskenderun Bay also hosts 11 separate terminals varying from dry cargo to oil terminal facilities. 7 tugboats and 5 mooring boats are engaged in this area.

Finally, Med Marine operates its 3 tugboats and 1 mooring boat in Port of Erdemir in Ereğli District of Zonguldak Province.

Over 100 marine pilots in total are employed in all locations.

**Data last updated:** June 2018

**Check our website for latest information:** [www.medmarine.com.tr](http://www.medmarine.com.tr)













[www.medmarine.com.tr](http://www.medmarine.com.tr)

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