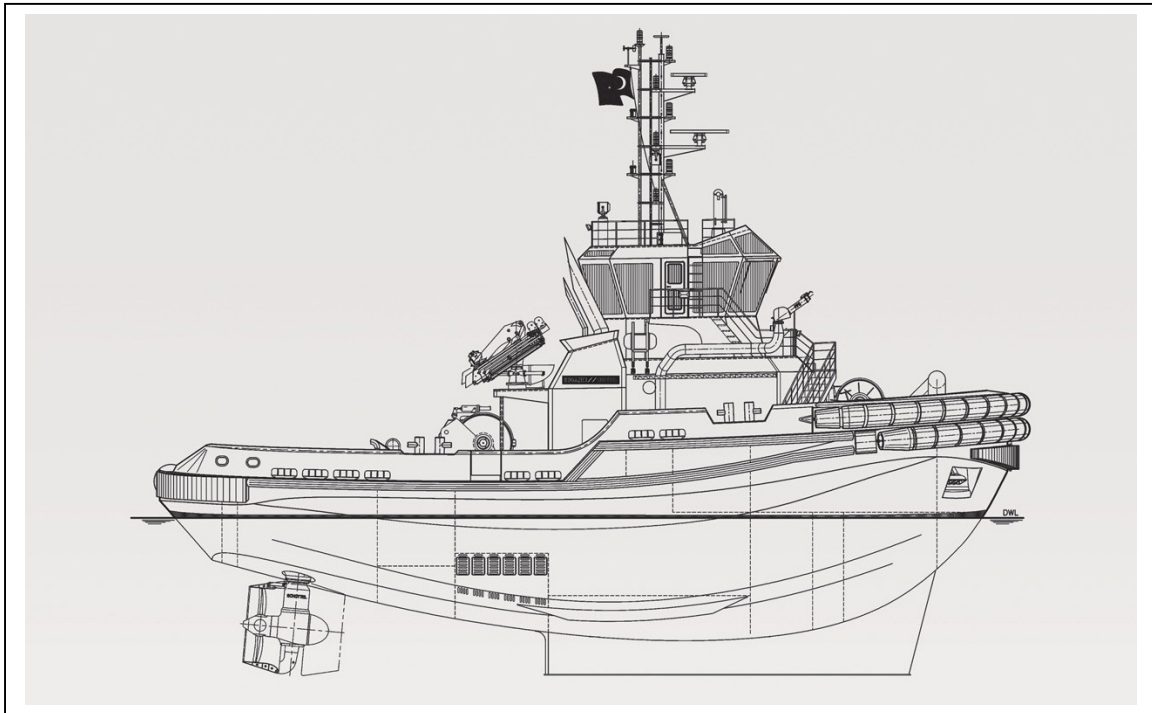




## RAstar 3000 - 70 Tbp Asd Escort Tugboat



Principal Characteristics	
Designer	Robert Allan Ltd. / Canada
Design	RAstar 3000
Lenght, overall	30.00 m
Beam, moulded	12.60 m
Depth, moulded	5.52 m
Hull design draft, moulded	4.20 m (above baseline)
Draft, maximum	5.75 m (to bottom of skeg)
GT	< 500
Classification Society	Bureau Veritas
Class Notations	I + Hull, Escort Tug, , Unrestricted Navigation, Fire Fighting Ship 1 / Water Spraying, + Mach Aut-Ums,  *Salvage Tug (optional).  **Oil Rec. Ship (F.P.>60°C) (OPTIONAL).

Services / Capabilities	<p>Berthing and unberthing of vessels at harbour premises, Pull and push during vessels mooring manoeuvrings, Escort services, Tandem Towing, Open sea and harbour Tug services from the stern, Fire Fighting Services,</p> <p>*Salvage services (OPTIONAL).</p> <p>**Oil Rec. services (OPTIONAL).</p>
Navigation /Communication	Unrestricted / Area A3
Complement	10
Accommodation	<p>Fully air-conditioned</p> <p>2 x Single crew cabin with individual wet unit (Master &amp; Ch.Eng.)</p> <p>4 x Double crew cabin with individual wet unit</p>
Main Engine	2 x CATERPILLAR 3516C HD , 2100 kW, 1600 rpm, total 4200 kW
Propulsion	2 x SCHOTTEL SRP 1515 CP, 2.6 m dia propeller
Diesel Generators	2 x CATERPILLAR C9 150 kW, 1500 rpm, 50 Hz.
Deck Equipments	<p>C. KRAAIJEVELD B.V. or equivalent make;</p> <p>– Single Split Drum Escort Towing Winch with drum capacity of 2 x 200 m x 54 mm dia UHMWPE synthetic rope. Brake holding force 200 tons.</p> <p>- Double Drum Aft Towing Winch with drum capacities of 800 m + 400 m x 52 mm dia steel wire. Brake holding force 150 tons.</p> <p>- Reel Winder with drum capacity of 400 m x 52 mm dia steel wire (OPTIONAL).</p> <p>DATA HIDROLIK make ;</p> <p>- Towing Hook – SWL 70 tonnes,  - Hydraulic Towing Pins,  - Stern Roller – SWL 130 tonnes</p>

Miscellaneous	<ul style="list-style-type: none"> <li>- Gas Detection System for hydrocarbon gases</li> <li>- Bunkering station on main deck</li> <li>- Massive stainless steel; FiFi hose boxes outside + life buoys hooks outside + fender fixing pins + window wiper FW pipes outside + exhaust pipe</li> <li>- Electrically heated fore and aft wheelhouse windows</li> <li>- A/C system with 100% redundancy</li> <li>- Seperate A/C units for wheelhouse, accommodation area and main switchboard room</li> <li>- Shore power connection of 60 kVA, 400 V, 50 Hz</li> <li>- Resilent mounted Main Engines and DG sets</li> </ul>
Speed	min. 12.5 Knots
Bollard Pull Ahead	70 tonnes

\*Optional, if portable salvage equipments necessary as per Classification rules to be supplied by Buyers.

\*\*Optional, if fixed equipments, systems and portable oil rec. equipments necessary to be supplied on board by Buyers.