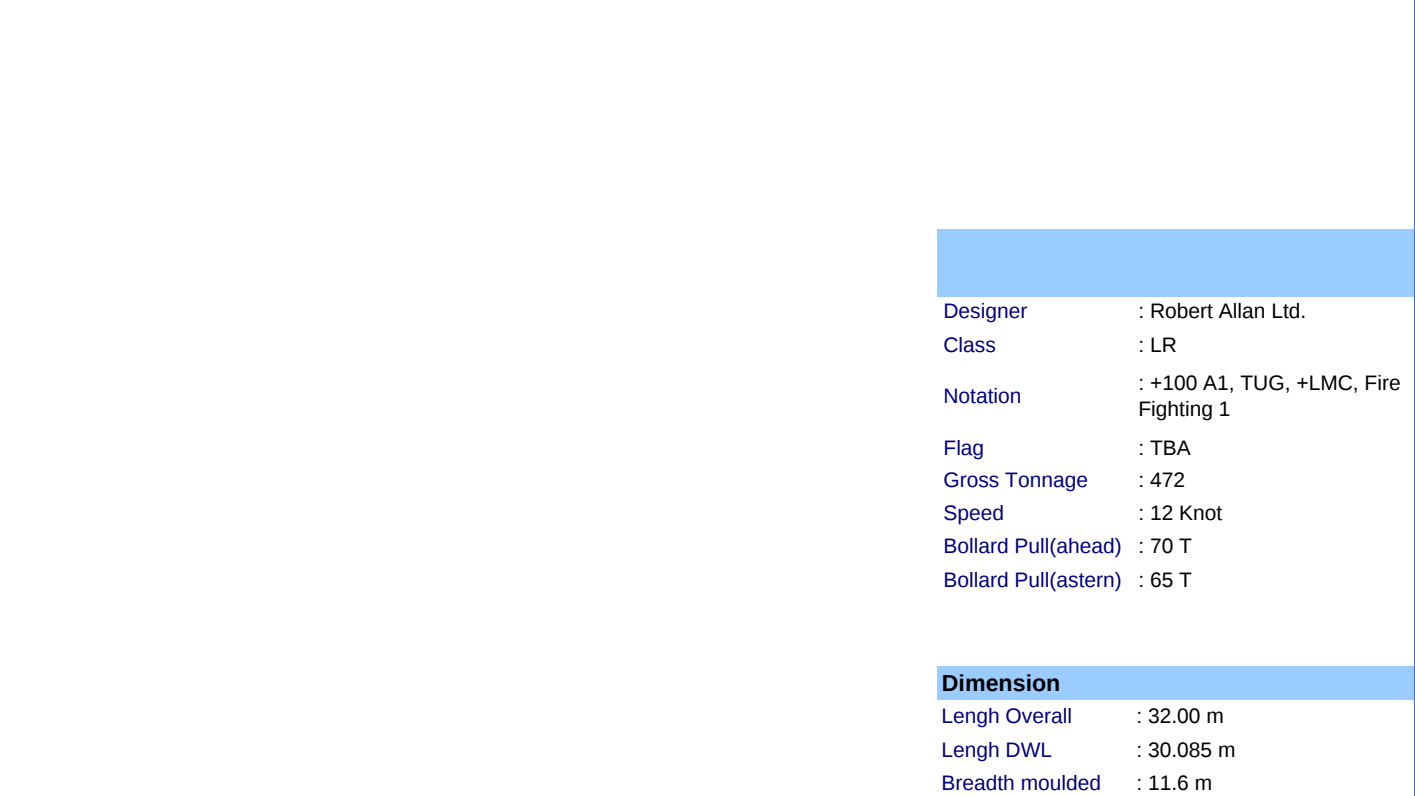


32M ASD Tug



Designer	: Robert Allan Ltd.
Class	: LR
Notation	: +100 A1, TUG, +LMC, Fire Fighting 1
Flag	: TBA
Gross Tonnage	: 472
Speed	: 12 Knot
Bollard Pull(ahead)	: 70 T
Bollard Pull(astern)	: 65 T

Dimension	
Lengh Overall	: 32.00 m
Lengh DWL	: 30.085 m
Breadth moulded	: 11.6 m
Depth moulded	: 5.36 m
Draft(Max.operating draft)	: 5.81 m

32m ASD Tug Main Specification

Machinery

Main Engine	: 2 X 2682BHP@1600RPM (CAT3516B)
Propulsion Sys	: 2 X Azimuth Thruster (SPR1515FP)
Generator Set	: 2 X 110eKW/50HZ (Cummins 6CTA8.3-DM)

Radio & Navigation Equipment

GMDSS System	: A1-2
Radar	: JWA-5212-6(JRC)
Satellite Compass	: Koden KGC-1
Magnetic Compass	: ComNar MR-150A
AIS	: Furuno FA 150
Autopilot	: AP 50+
Echo Sounder	: Furuno FE-700
Speed Log	: Furuno DS-80
GPS	: Furuno KGP-920
VHF Transceivers	: 2 x Furuno 8800S
Navtex Receiver	: Furuno NX-700B
EPIRB	: McMurdo E5 406MHz
SART	: McMurdo S4 9GHz
SSB	: Furuno FS1570

Others

External Fi-Fi	: FFS FIFI System Class 1
Fire Monitors	: 1200 m³/h@12.5bar
Sewage System	: 15 men
Oily Water Separat	: 0.5 m³/h
Oil Dispersant Sys	: Complete with Pump and Oil Spray Boom

Deck Machinery

Fwd Towing Winch/	: brake rating 150t
Windlass	: 5t @ 0-20m/min(1st layers) 2t@0-50m/min(1st layers) (Macgragor Plimsoll)
Aft Winch	: 150T BH
Towing Hook	: 70t SWL (Plimsoll) (Mampaey disc type)
Deck Crane	: Palfinger PK6500M

Capacities

Crew	: 10 men
Fuel Oil	: 205 m³
Potable Water	: 37 m³
Ballast Water	: 120 m³
M/E Lub Oil	: 1.2 m³
Oily Water	: 1.1 m³
Waste Oil	: 1.3 m³
Sewage Holding	: 1.3 m³
Foam	: 1.5 m³

Main Pumps

Ballast/Bilge Pump	: 25 m³/h@4bar (Azcue)
GS/ Fire Pump	: 70 m³/h@4bar (Azcue)
Emerg. Fire Pump	: 25m³/h@30m
F.O. Transfer Pump	: 10 m³/h@2bar (Azcue)
Sludge Pump	: 1 m³/h@4.5bar (Azcue)
Sewage Discharge	: 3 m³/h@5bar (Azcue)
FIFI One Pump	: 2700 m³/h@12.5bar