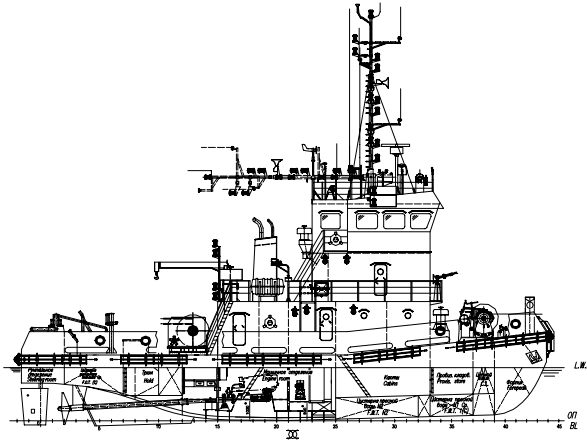




MORTEST Co., Ltd.

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SPECIFICATION OUTLINE 1,200BHP TWIN SCREW OCEAN GOING TUG

Vessel Developer	MORTEST CO., Ltd.
Shipyard	TAM BAC Shipyard
Vessel Notation	MB URAL, IRTYSH
Classification Notation	RS KM ★ 1R TUG BOAT
Navigation Areas	Unrestricted Navigation Area (International Navigation)
Flag	Kazakhstan
Year Built	2008

Dimensions & Capacities

Length O.A.	24.50 M
Beam MLD.	7.60 M
Depth MLD.	3.20 M
Design Draft	2.20 M
Max. Draft	2.50 M
GRT	161.00
Fuel Oil Cap.	~55.00 MT
Fresh Water Cap.	~25.00 MT

Main Towing Equip. & Deck Machinery

Single Drum hydraulic towing winch set

- 10.5 Bollard pull

Main Steel Towing Hawser:

- φ40mm x 500m Length x 1 set

Control station:

- 1. winch local control

Bow towing bitt: 50MT SWL

Aft towing bitt: 50MT SWL

Electric Windlass : DMA-20.5

Anchor & Anchor Chain:

- Hall's Anchor 235kg x 2

- Anchor chain: φ20,5mm x 220M

Main Machinery & Propulsion Unit

Marine Main Engine

- Model	Daewoo V180TIH
- Power	600 BHP@1,800rpm
- Maker	Doosan Infracore – S. Korea
- Control station	Main / Backsight Control station
- Quantity	Two Sets

Marine Gearbox

- Model	DMT400HL
- Maker	DONG I – S. Korea
- Gear Ratio	4.95: 1
- Quantity	Two Sets

Marine Gen. Sets

- Model	Daewoo PNJ AD136T
- Power	96KW/3φ/380V/50HZ
- Maker	Doosan Infracore – S. Korea
- Quantity	Two Sets

Propeller

Fixed pitch screws

Two sets

- Quantity

Electro-hydraulic Steering gear

- Model	SPC-05T
- Maker	SA Mart
- Quantity	One Set (with emergency spare system)

Oily Water Separator

YSCZ-0.25DM

One set

Fuel Type

AL MAB 103

Main Life Saving & FiFi Equip.

- In compliance with "SOLAS"
- Merchant Shipping Ordinances regarding Life-saving & FIFI requirement
- As per RS Rules CO₂ Express fire smothering system (*)
- Portable Fire Extinguisher: 11 x 9kg foam; 3 x 5 kg CO₂; 5 x 8kg Dry Powder; 1x 50 L Foam Fire Extinguisher (cart-pushing); 1 set fireman outfit, 2 x 10 ps inflatable liferaft, 2 x Marine line-throwing rope, etc.
- Electric Fifi General Pump rate : 40cbm/hr
- Spare Electric Fifi Pump rate : 40cbm/hr
- Emergency Motor Fifi Pump rate : 63cbm/hr

Main Radio & Nav. Equip.

GMDSS	TT3020CImmC
SSB	SRG-1150DN
VHF	STR-6000A
GPS	SPR-1400
Radar	BM E ATA
Radar Responder	181/4
NavTex Receiver	S-4
Electronic Whistle	SNX-300
Mag. Reflector	ETD 100/350
Compass	Sperry Jupiter
Panel Type	
Compass	LCT-165
SoundPower Tel. Sys.	
Echo Sounder	SNP-200
EPIRB	SES-2000
2-way Walkie Talkie	E3
	STV-160

Air conditioning (split type cooling) system

Wheel House, Dining Room, Captain's Cabin, Crew's Cabins, Chief Engineer's Cabin

Accommodation & Galley

4x Senior Officer Cabin
1 x 2 Berth Crew Cabin
1 x 4 Berth Crew Cabin
Total Accommodation: 6
Horizontal Freezer (L): 450
Refrigerator volume 3cu.m
Vertical Refrigerator (L): 350
Flameless Electric Stove (Incl. oven)