

# MT MARI

A TWIN SCREW AZIMUTHING DUCKPELLER TUG CONSTRUCTED BY ISHIKAWAJIMA SHIP & CHEMICAL PLANT CO. LTD. (JAPAN)

**BUILT:** 1983

## DIMENSIONS:

Length O.A 32.83 m  
Length B.P 26.50 m  
Breadth Moulded 9.50 m  
Depth Moulded 4.30 m  
Draft Designed 3.00 m

## CLASSIFICATION:

RINA C-Hull, Mach, Tug, Unrestricted Navigation  
G.T. : 295 tonnes

## PROPULSION :

Yanmar Z280L-ST marine propulsion engines each developing 1,700 bhp at 730 rpm.

### Propulsion units

2 x Duckpeller type azimuthing thrusters DP 40 E fitted with 2,000 mm diameter 4 bladed fixed pitch propellers in kort nozzles

## PERFORMANCE :

Free Running Speed: 13.617 knots  
Bollard Pull: Ahead: 47.44 tonnes  
Astern: 46.98 tonnes

## AUXILIARIES:

2 x Yanmar 6CHL-TN auxiliary engines each driving self ventilated drip proof electric generators at 1,800 rpm producing 80 kVA 225 VAC 60 Hz 3 phase. Generators manufactured by Messrs. Nishishiba Denki Co. of Japan.

## ACCOMMODATION:

Single berth cabin for Master situated on main deck accommodation level, single berth cabin for Engineer and four men mess berth located below main deck.

## DECK EQUIPMENT

### WINDLASS/MOORING WINCH

One (1) unit Kitigawa Kogyo electric-hydraulic anchor windlass and warping drum. Rope winch 0.75/2.00 tonnes x 55/25 m/min with a capacity of 100 m x 90 mm nylon main towing rope. Winch controlled remotely from wheelhouse.

### CAPSTAN/MOORING WINCH

One (1) unit Kitigawa Kogyo electric-hydraulic capstan mooring winch controlled remotely from wheelhouse.

### TOWING HOOK

One (1) unit non spring type 50 tonne swl. Towing hook fitted with wheelhouse operated remote pneumatic release device.

## FIRE FIGHTING SYSTEM:

### FIRE PUMP

One (1) unit Nissan PD6T04 marine diesel engine 220 bhp at 2,200 rpm driving through a flexible coupling a fire fighting pump manufactured by Messrs. Daichi MFG Co. Ltd type CP 150-50 displacing 360 m<sup>3</sup>/hr at 120 m head.

## FIRE MONITORS

One (1) unit 100 mm manual operated water/foam 2,000 l/min fire monitor on wheelhouse top and (1) unit 100 mm electric hydraulic remote controlled water/foam 2,000 l/min fire monitor on main mast top.

## AUXILIARY EQUIPMENT

### OILY WATER SEPARATOR:

One (1) unit gravitational type oily water separator.

### BILGE/GENERAL SERVICE PUMP:

One (1) unit Naniwa self priming vertically mounted bilge and general service pump.

### AIR COMPRESSORS:

Two (2) sets Sanwa two stage water cooled air compressor Type SMC 8 displacing 20.0 m<sup>3</sup>/hr at 30 bar.

## ELECTRONICS

### RADAR:

One (1) set Tokyo Keiki 48 miles range marine radar.

### ECHO SOUNDER:

One (1) set echo sounder Furuno Type FE-680.

### NAVTEX:

One (1) set Navtex received Furuno Type NX-500.

### GPS SYSTEM:

One (1) set Furuno differential GPS Type GP-70 Mark 2.

### RADIO SSB:

One (1) set Furuno SSB radio telephone 150 watts Type FS1562-15.

### RADIO VHF:

One (1) x VHF set type Sailor 5022  
One (1) x VHF set type Sailor RT2048  
One (1) x VHF set Icom IC-M80  
Two (2) x GMDSS hand held VHF's type Sailor SP-3520

### EPIRB:

Tron 40s

## TANK CAPACITIES:

### Fuel Oil:

Port forward	16.61 m <sup>3</sup>
Starboard forward	16.61 m <sup>3</sup>
Port aft	15.02 m <sup>3</sup>
Starboard aft	15.02 m <sup>3</sup>
Daily service tank	0.96 m <sup>3</sup>
Total	<u>64.22 m<sup>3</sup></u>

### Fresh Water

Fresh water tank 25.86 m<sup>3</sup>