Short Specification



NavTug® FlatTop

The NavTug®FlatTop is a powerful handy sized multipurpose anchor handling and assistance tug with a large flat deck area. It's main scope of service is the assistance in any offshore and nearshore construction sites as well as anchor-handling assistance for cable-laying vessels.



GENERAL GENERAL:

NAME: NavTug® FlatTop "Torsten"

YARD: SanMar Ltd., Turkey

MAIN PARTICULARS

BOLLARD PULL: 50 t SPEED: 12,5 kn

DECK LOAD: 10t/m² (main deck)

ENDURANCE: 20 days TONNAGE: 371 GT

CLASSIFICATION: GL X100 A5 E RSA(200) IW AH

Tug XMC AUT

FLAG: Netherlands

MAIN DIMENSIONS

31.5 m LENGTH, o.a.: BEAM, moulded: 11,5 m BEAM, o.a.: 12 m T BL, 25% Stores: 2.45 m T BL, DWL: 2.75 m T BL, max LoadLine: 3.00 m T max LoadLine +skeg: 3,35 m DEPTH Main Deck aft: 3,80 m DEPTH Main Deck fore: 4,70 m HEIGHT Top Deck, BL: 10,50 m AIRDRAUGHT @DWL: 14,80 m EYE-LEVEL @DWL: 7,00 m

CAPACITIES

FUEL OIL MGO bunker: 138 m³ FUEL OIL MGO day: 22 m³ FRESH WATER: 31 m³ SEWAGE: 22 m³ LUBE OIL: 1.4 m³ SLUDGE: 2,7 m³ HYDRAULIC OIL: 2 x 1.4 m³ BALLAST: 79 m³

ACCOMMODATION:

ON MAIN DECK

- · Changing area, lockers
- · mess room with seats for 6 persons, small pantry
- 1 public toilet
- LSA equipment cabinet BELOW MAIN DECK
- 4 single cabins with 2x shared toilet and shower.
- 1 Cabin for 2 persons + pull-down extra bed, with toilet and shower
- Pantry
- Provision store with freezer, refrigerator, dry provision locker and shelves
- HVAC-cabinet
- 1x housekeeping locker
- · Lounge with Sofa, table, locker, TV

PANTRY EQUIPMENT

- 1x 4-hotplate electric cooker ceran field type with storm rails
- Vent hood
- 1x domestic size stove
- 1x microwave with grill function
- 1x double bowl stainless steel sink
- Lot of cupboards, plate racks and workbench

FIRE PROTECTION AND FIGHTING

- coffee maker, water cooker, toaster
- looker fragger refrigerator

locker, freezer, refrigerator

- Fire extinguishing system type NOVEC in engine room with release station on deck
- Number of 6kg portable powder extinguishers
- Portable CO2 extinguishers for main switchboard and wheelhouse
- 1x EEBD escape set in accommodation
- 1x EEBD escape set in engine room
- 1x firemens outfit
- Fire main and a number of hydrants with hoses





LIFE SAVING EQUIPMENT

- 2x inflatable liferafts for 12 persons
- 6x lifebuoys with self-igniting lights, lifelines and smoke signals
- · 12x lifejackets with light and whistle
- 12x inflatable lifejackets with light and whistle
- 12x immersion suits
- 12x thermal protection aids
- 1x Jason Cradle
- Pyrotechnics as per rules
- 1x MED approved inflatable rubber type MoB-boat for 6 persons with 40HP outboard diesel engine and equipment with lifting davit
- 1x line throwing apparatus

ANCHOR AND MOORING EQUIPMENT

ANCHOR EQUIPMENT

- 2x hydraulic vertical anchor winch, Data
- · 1x combined hydraulic winch
- 2x HHP anchor D´Hone stowed in anchor pockets
- 2x chain cables K2 studlink, galvanized, stowed in chain locker
- 2x chain stopper
- 2x chain quick release on main deck

MOORING EQUIPMENT

- 3x mooring rope 120m with 60kN BL
- 2x 20m Polyprop/ Power Plait 40mm
- 2x 40m Polyprop/ Power Plait 40mm
- 2x 60m Polyprop/ Power Plait 40mm

TOWING AND ANCHOR HANDLING EQUIPMENT

The towing equipment is designed according to Noble Denton Rules for a bollard pull of 45t.

- 1x hydraulic independent double drum combined anchor
- handling and towing winch, Kraajeveld
- o 25/10t, 20/40m/min on 3rd layer (Towing)
- o 50/15t pull, 10/25m/min on 3rd layer (Anchor h.)
- o break force 130t
- o 2-speed gear/ motor
- o 2x750m wire, 46mm dia
- 2x towing hook SWL 45t with pneumatic release from local and wheelhouse
- manual tow pins/ plug sleeves aft
- 2x hydraulic Tugger Winch with 5t@10m/min with wire 100m
 22mm dia, Kraajeveld
- 1x hydraulic tow pins and shark jaw unit SWL 80t (bow), Data
- 4x manual tow pins/ plug sleeves (bow)
- bow and stern roller 6,5m clear opening 1,0m dia, SWL 120t PORT GENSET:

DECK CRANE

One fully GL approved marine deck crane knuckle boom type is mounted on the fwd deck area on portside. (Promac /HS-Marine AKC 185 HE4)

- SWL 12t@10,0m
- maximum outreach 15m
- · local controls and radio remote control
- winch operation 5t (single fall)

NAUTICAL EQUIPMENT

The vessel is equipped with nautical equipment according to GMDSS A2 plus extra equipment.

- 2x VHF DSC Class A with handheld, gooseneck and footswitch, (Sailor 6222)
- 3x secondary station for VHF (Sailor 6204) (CPT, Messroom, Lounge)
- 1x VHF (Sailor RT2048)
- 1x MF/HF 150W SSB DSC (Sailor 6310)
- 1x Inmarsat C GMDSS system (Sailor 6110 Mini-C)
- 2x DGPS (Furuno GP150)
- 1x AIS class A with pilot plug (Furuno FA-150)
- 2x Radar with ATA function and AIS overlay (Furuno FAR2117 black box version)
- 1x Fleet Broadband 150 with LAN connection box (Thrane&Thrane)
- 1x ECDIS (Sodena G 19")
- 1x Auto-Pilot + Tiller (Sperry Marine)
- 1x Gyro Compass with NMEA port (Sperry Marine Gyro Navigat X MKII)
- 1x Satellite-Compass with NMEA port (Furuno SC50)
- 1x Rate of turn indicator with NMEA port
- 1x NavTex digital (Furuno NX700B)
- 2x portable VHF GMDSS emergency liferaft radio(Sailor SP3520 VHF)
- 3x portable VHF non-certified with spiral cable microfone
- 1x SART (Sailor)

BOW THRUSTER:

- 1x EPIRB (Sailor SE406-II)
- 1x Echosounder (Furuno FE-700)

MACHINERY

MAIN ENGINES: 2x CAT 3512B HD 1425kW

@1600rpm resilent mounted

GEARBOX: 2x Reintjes WAF 763 on cast resin SHAFT LUB/COOL: 2x closed stern tube with closed

2x closed stern tube with closed circuit water cooling, rubber

bearings

PROPELLERS: 2x fixed pitched propellers, 2,0m,

5 blades, Piening

NOZZLES: 2x high efficiency type suitable also

for backwards operation

STEERING GEAR: 2x twin blade rudders and steering

gear (Data)

AUXILARY: 2x 250kW power-pack with 120kW

hydraulic and 96kWe alternator

(MAN-Lindenberg)

RT GENSET: 1x approx. 40kWe

1x 200 kW hydraulic (Schottel)

