

PX 121-H series
of Ulstein PX121 DESIGN



TECHNICAL OUTLINE SPECIFICATION
MULTIPURPOSE FIELD SUPPLY-, PIPE CARRIER,
SPECIAL PURPOSE VESSEL

Rev.: Preliminary

Name of ship: Energy TBN
Port of registry: Aalesund
Distinctive number or letters: xxx
IMO Number: xxx
Maritime Mobile Service Identity (MMSI): xxx
DNV ID: TBA

MAIN DESCRIPTION	MEASUREMENTS
Type : MULTIPURPOSE FIELD / PLATFORM SUPPLY VESSEL.	Length o.a. : 83,40m
Classification: DNV *1A1, Offshore Service Vessel, Supply, SF, E0, DYNPOS-AUTR, NAUT-OSV(A), CLEAN DESIGN, COMF-V(3), LFL*, Fire Fighter I, OILREC, BIS,	Length b.p.p. : 76,50m
ERN 99 99 82 63 (preliminary)	Breadth mld. : 18,00m
	Draught max. : 6,70m
	Moulded draught : 8,00m
	DWT : ~4.200T
	Gross Tonnage : ~3900T
	Net Tonnage : TBA T
	Deck load, VCG : ~1900T

CARGO CAPACITIES

DISCHARGE RATES

Work/Cargo Deck area: 840m² (m x m)

Deck strength: t/m²

Fresh Water	: 1047m ³			200m ³ /hour -	9 bar
Fuel Oil	: 1409m ³			200m ³ /hour -	9 bar
Liquid mud	: 1294m ³	Sg. 2,8	10 combined tanks	2x 75m ³ /hour -	24 bar
Brine / Slop	: 1294m ³	Sg. 2,8	10 combined tanks	75m ³ /hour -	18 bar
ORO	: 661m ³			2 x 75 m ³ ,24 bar & 2x75 m ³ ,9bar /hour	
DW/ballast	: 1622m ³			200m ³ /hour -	9 bar
Methanol	: 155m ³	Sg.	4 tanks	2 x 75m ³ /hour -	9 bar
Baseoil	: 268m ³	Sg.	2 tanks	150 ³ /hour -	9 bar
Cement/barite	: 255m ³		4 tanks	2 x compr. 30 m ³ /min.-	5,6 bar
Slop	: 506m ³		4 combined tanks	75m ³ /hour -	9 bar

Height of cargo rail: 2,9m

All mud tanks have agitators. Tank washing system with hot/ cold water and chemical injection in washing water for mud and brine tanks.

Inert Gas Generator installed, capacity: 11Nm³/h with 97% nitrogen (N₂) purity

Flow meter for Fuel Oil (w. print) and FW.

Loading and discharge stations on both sides amidships and aft.

MACHINERY -PROPULSION

PERFORMANCE

Main eng. : 2 x Caterpillar 1630kW each.
Main eng. : 2 x Caterpillar 990kW each.
Emergency gen. : 99 kW
Propeller Plant : 2 x Azimuts, CP 1600 kW each.
Bow thrusters : 2x Tunnel thr. CP 880kW each.

Max speed, approx. : 15 knots ~ 23,1 t/24hrs
Service speed/cons. : 12 knots ~ 9,6t /24hrs
Eco speed/cons. : 11,0kts ~ 6,2t /24hrs
DP operation : 4,5t/24 hrs
Port consumption : 1t/ 24 hrs
5m draft used for calculation

DECK/RESCUE EQUIPMENT

ACCOMMODATION

Tugger Winches : 2 x 10t
Capstans : 2 x 10t
Windlass/Mooring : 1 double 15t
Cranes : 3t@18m
Life rafts : 2x 30 pers. each side
Survival Suits: 30.
Life Jackets: 34

Lifesaving equipment according to NMD rule requirements
1 off Fast Rescue Craft: Ridgid, inboard diesel
1 off (SOLAS approved) Davit
1 off Incinerator + 1 off waste compactor
Reefer connections on deck: 12 x 220V- 16A

Total : 30 persons
Cabins : 16 x 1 (single) bed cabins
Cabins : 7 x 2 (double) bed cabins
Day room Smokers : 1
Day room No smokers : 1
Mess room : 1 off, A deck
Hospital : 1 off, Main deck
Reception : 1 off, Main deck
Laundry : 1 off, Main deck
Gymnasium : 1 off, Main deck
Ship's office : 1 off, D deck
Conference room : 1 off, D deck

NAVIGATION EQUIPMENT	COMMUNICATION EQUIPMENT
1 off S-Band ARPA radar, 26" color display 1 off X-Band ARPA radar, 26" color display 1 off 22" Radar slave Monitor 2 x DGPS for navigation 1 x ECDIS system, + Conning 3 x Gyro 1 off Echo Sounder 1 off Doppler speed Log 1 off DP system AUTR 3 off VRU's 2 off Wind sensors 2 off Seatex DPS 110 1 off Laser DP reference system	1 off MF/HF SSB Simplex Radio Station w/ DSC 1 off Navtex receiver 2 off Inmarsat C (with SSAS & LRIT) Inmarsat Fleet Broadband 1 off VSAT system 2 off VHF with DSC 1 off VHF handset 3 off portable UHF's 3 off fixed UHF's
TELEPHONE SWITCH BOARD:	FIRE FIGHTING SYSTEM:
Intercom: TBA	According to Class requirement Fire fighting in Engine Room by Water spray In Incinerator Room and Paint Store by sprinkler

PX 121 series are state of the art new vessels with high capacities and good station keeping capabilities.

The hull form, with the ULSTEIN X-BOW®, and the diesel electric propulsion system, ensures exceptional performances with regards to fuel consumption, sea keeping, station keeping, speed, stability and cargo capacity.

Low fuel consumption with low emissions and a ballast treatment plant makes the vessels environmental friendly.

The cargo systems ensure safe and efficient loading and discharging of the Vessel.

The propulsion system comprises two azimuth type propellers, each driven by an electrical motor.

Two tunnel thrusters are installed in the fore part of the Vessel.

The vessels have very large deck capacities for this class of vessels and are prepared with foundation for crane and can perform as a construction vessel. It has also been prepared for installation of ROV for survey and underwater inspections. The compliance with IMO Resolution MSC.266(84) Code of safety for special purpose ships will allow the vessel to have more charterers personnel onboard if required.

The vessel has the notation FiFi1 and can perform firefighting operations. Oil rec notation ensures the vessel will be able to assist in case of oil spill at sea.

Compliance with MEPC 197(62) Inventory of Hazardous Materials ensures the vessel is built environmental friendly.



Illustration with crane and ROV (preparations only)

Details without guaranty