

FRAM PRINCE - Anchor Handling Tug Supply

General		
Design	MOSS 919 AHTS	
Built	Tersan Shipyard, Turkey	
Delivered	2021	
IMO	9709049	The state of the s
Call sign	5BZS5	FRAM, PRINCE
Flag	Cyprus	al y
Port of reg	Limassol	13.0
ERN	99,99,99	

Class

BV, I, ♣ HULL, ♣ MACH, Offshore Support Vessel; Anchor handling; Oil Recovery; Fire-fighting, SP 59, Unrestricted navigation, COMF-VIB 3, ♣ AUT-UMS, ♣ SYS-NEQ-OSV, GREEN PASSPORT, CLEANSHIP SUPER, ICE, ♣ DYNAPOS AM/AT R, SDS

Main dimensions		Deck capacities	
Length overall:	84.00m	Cargo deck (max):	640m2 (40m x16m)
LPP:	73.20m	Cargo deck	562m2 (34.7m x16.2m
Breadth moulded:	19.40m	(usable):	1,300mt (VCG 1m)
Depth moulded:	9.00m	Deck capacity:	15 mt/m2 /10mt/m2
Operation draught:	6.50m (6.35 min)	Deck strength:	3m above deck
Maximum draught:	7.625m	Cargo rail:	440VAC, 32A, 60 Hz
DWT at max draught:	3,427 tons	Reefer outlet:	4 sockets
Lightship weight:	5,097		
GRT:	4,984		
NRT:	1,496		

Main engines		Thrusters	
4 MAK x 4,000 kW		2 x Tunnel thrusters fwd	2 x 1,360 BHP
Bollard Pull:	240 / 247.3t	1 x Azimuth thruster fwd	1 x 1,630 BHP
2 x Aux generators (IP44)	2 x 1,240 BHP	2 x Tunnel thrusters aft	2 x 1,360 BHP
2 x Shaft generators	2 x 4,020 BHP		
1 x Emergency generator 1 x 320 BHP		2 x CPP in fixed nozzles	
		2 x High lift flap rudders	
Total installed power 21,760 BHP			
SCR & Urea installed for all ME and DG, Emission limits according to IMO TIER III			



Anchor handling equipment		
4 chain lockers, each of 137m3, total 548m3	Capacities:	
Chain inlet close to the locker center	2x 1,950m length of 76 mm Aft locker	
	2x 1,900m length of 76 mm Fwd locker	
Cable Lifters: 2 x 76mm, 2 x 84mm, 2 x	Approx. 4 x 1,500m length of 84mm	
105mm, 2x 114mm, 2 x 120mm	Approx. 4 x 550m length of 120mm	
Duty of 76 mm cable lifters - double drive:	Dynamic braking:	
1st Step 500 t @ 14 m/min (at max 55 bar)	500 tonnes @ 63m/min	
2 nd Step 312 t @ 21 m/min (at max 57 bar)	412 tonnes @ 100m/min	
3 rd Step 130 t @ 42 m/min (at max 57 bar)	172 tonnes @ 137m/min	
Split starp roller: 1 2 v 3m dia 3 5 m - SWI 60)O+	

Split stern roller: L 2 x 3m dia 3.5 m – SWL 600t

Shark jaws: 2 x 650mt

Tugger winch: 2×24 mt pull / 100m wire Capstans: 2×15 mt pull / 60m storage

BRATTVAAG towing / anchor handling winch BSL400W/2SL400W of waterfall type

Drum dia: 1.5m x length: 1.38m x flange dia	
3.2m	
Wire capacity 1,431 m of 83 mm wire.	
Wire capacity 1,738 m of 73 mm wire.	
Alt. 230 m of 203mm	
Currently installed:	
1x 250m 83mm	
CR529 CR sockets	
1st 0 - 65m/min	
Mid 0 - 89m/min	
n	

Static brake:

1st 525 tonnes Mid 379 tonnes Outer 281 tonnes

Dynamic braking:

1st 74 to 528 tonnes @ 0 - 86m/min



Two off BRATTVAAG secondary winch type ALM63138U		
Drum dia 1.5m x 4.5m length + 0.9m length special compartment / flange dia 4.5m		
1,600m 203 mm + 250m in socket compartment, total 1850m		
5,345m 76 mm wire, max weight 150 tonnes on drum.		
4,275m 86 mm wire, max weight 150 tonnes on drum.		
When driven at 60 bar powered by 2 pumps	Dynamic braking:	
1st 140 tonnes @ 0 - 28m/min	1st 23 to 175 tonnes @ 0 - 72m/min	
Mid 77 tonnes @ 0 - 52m/min Mid 13 to 96 tonnes @ 0 - 131m/min		
Outer 53 tonnes @ 0 - 75m/min	Outer 9 to 66 tonnes @ 0 - 190m/min	
Static braking:	Emergency Release Couplings (ERC) installed	
1st 170 tonnes	70 tonnes on all winches to disengage the drums withi	
Outer 64 tonnes	3 seconds from the drive units.	
	Max 23t side force on spooling device	

Deck equipment		
1 knuckle boom crane TTS GPK260-6-20	2 Rolls Royce anchor handling / cargo rail	
Lifting capacity SWL 6t	cranes w/manipulators 3t 10m-14.3m	
Working radius telescope out 20m	5t 3.2-10m	
Hoisting speed: 40m/min.	2 x Tugger 24t 100m - 40mm/220m@30mm	
Dynamic Factor: 15%	1 x Capstan 9.7t 60m – 24mm	
1 x Pennant Winder	2 x Centering device	
2 x Chain Roller & Guide 70mm-165mm	2 x Stop Pins	

Cargo - tank capacities / pumps			
Tank	(100%)	Pump	
Ballast water/drill water	2,191m3	1 x centrifugal	200m ³ /hr
		90mlc/20mlc	
Fresh water (potable)	1,298m3	2 x two speed	200m ³ /hr
		90mlc/20mlc	
Dry bulk (4 Tanks – SG 2,6)	259m3	1x duplex	2x25.6m3/min 5.6 bar
Base oil (combo)	313m3	1 x spindle screw	159m³/hr 90mlc
Fuel Oil (Dedicated 1,016m3)1,670 m3		2 x rot displacement	200 m ³ /hr 90mlc
@98%			
Liquid mud – SG 2,8 (Combo) 619 m3		2 x eccentric screw	75m ³ /hr 90mlc
Brine, B&C –SG 2,5 (Combo)	619 m3	1 x spindle screw	159m³/hr 90mlc
ORO	1,116 m3	2 x eccentric screw	75m³/hr 90mlc
Portable tank cleaning system	n for all tanks.		

All tanks are designed for liquids with flashpoint above 60°C.

The piping is arranged as two systems capable of discharging two types of bulks simultaneously through two separate discharge lines. Mucking ejectors for each tanks are fitted.



FIFI II equipment

2 remote operated water monitors FFS 3600 with spray deflector in accordance to FI-FI II class requirements.

Rotation +/- 180 degrees Elevation: -20 to +80 degrees Capacity Water/ Foam: 3,600m3h Throw length/height: 180 / 110 meters Monitor inlet pressure: approx. 12 bar Front power take off outer engines for driving FiFi II Pumps with means of two stepup gear.

DP interfaces & position reference systems

3 x Gyrocompass

3 x MRU

3 x Wind Sensor

2 x DGPS (DPS232, DPS132)

1 x CyScan MK4 with Multi-Tracking Option

Prepared for Kongsberg Simrad HIPAP 500 system (compartment for the HPR unit forward stb. in engine room)

1 HPR-interface.

Various

Distilled and make-up water systems capacity min. 12t/day with heating

FRC, water jet with inboard diesel engine of 144 Hp

Fittings for the rescue net to be placed on the cargo rail Starboard.

Passive anti rolling system. The anti-rolling passive stabilizing system consists of tanks 28 & 29 (DW/ORO) in aft body of the vessel extending from ship's side to ship's side. The tanks are provided with flow-reducing structural elements/arrangements.

Fully integrated ROV hangar, with Kongsberg Evotec L-Frame LARS.

Accommodation for 59 persons (SPS 59) (31 x 1-man, 10 x 2-man, 2 x 4-man cabins)



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