



SPECSHEET | AHTS

MSC Dragon

215t BP | IMO: 9240952

SPECSHEET

1. General descriptions

CALL SIGN:	5LHB6
IMO:	9240952
MMSI:	636022076
Port of Registry:	Monrovia
Flag:	Liberia
Type:	Anchor-Handling/Tug
Class:	DNV 1A1 Tug DK (+) HL (2, 5) SF TMON
Vessel Built:	2001 by Flekkefjord Slip & Maskinfabrikk AS., Yard no 170
Reg. Owner:	LISMORE OCEANWAYS LTD
Manager:	MSC SHIP MANAGEMENT

THE VESSEL IS EQUIPPED FOR THE FOLLOWING CONTINGENCY SERVICES:

- ANCHOR HANDLING
- TOWING

Principal Dimentions

Length overall:	81.00m
Length BP:	72,096 m
Breadth mid:	20, 00 m
Draught mid:	7,61m
Gross tonnage:	4604 t
Net tonnage:	1381 t
Deadweight:	4138 at summer draft
Keel to Mast HT:	37.0 m

Power

Service speed:	Eco Speed Approx. 10 Knots
Max speed:	17, 3 Knots
BHP:	20000 BHP (14720 Kw)
Bollard pull:	215 tonnes

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2. Capabilities / Capacities

Deck space:	580m ²
Deck length:	37 m
Deck breath:	16, 6/14,4m
Fuel Oil:	1642m ³
Fresh water:	597m ³
Water Ballast:	1785m ³
Chain lockers:	4 x 188m ³

3. Discharge Pumps

Fresh water:	1 of Cap 150m ³ /h - 9 bar (hydraulic)
Water Ballast:	2 of Cap 100m ³ /h - 9 bar (hydraulic)
Fuel oil:	2 of Cap 250m ³ /h - 9 bar (hydraulic)

4. Deck Cranes

1. Provision/deck crane Hydra lift:	5t/13m
2. Provision/deck crane Pal finger:	0,8t/20,8m,2.14t/5,7m
3. Deck crane Hydra Marine:	1.0 t/19m

5. Rig Chain Lockers / Chain Capacity

4 of Rig chain lockers:	188 m ³ each
76 mm:	12075m
81 mm:	10898m
86 mm:	9765m
95 mm:	7832m
110 mm:	5874m
120 mm:	4947m

6. Tugger Mooring System

Tuggers:	Two (2) of 5.7 T (110m 22mm) and 12 T (150m 20mm)
Mooring:	One (1) of combined windlass/mooring winch
Capstans:	Two (2) of 15 Tonnes

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7. Anchor-handling Equipment

Shark Jaws:	Two (2) of Karmoy Winch, Max load 750 tonnes
Towing pins:	Four (4) of Karmoy Winch, Max load 240 tonnes
Steering pins:	One of each side of the stern roller
<u>Stern roller</u>	
Length:	4167mm x 2 pc. (Total length 8334 mm)
Diameter:	4000 mm
SWL:	500 tonnes
Gypsies:	2 x 76 mm, 1 x 84 mm

8. Towing/Anchor-handling Winches

One of:	Ulstein Brattvaag towing/anchor-handling winch waterfall type BSL 500 WX/SL 400 WX
Consisting of:	Anchor-handling drum - 500 tonnes (with socket compartment)
Length of drum:	4.400 mm + 900 mm (socket compartment)
Inner drum Dia:	2.800 mm
Dia of flanges:	4.050 mm
Wire capacity:	4250m of 83mm wire

Low Gear

Drive hoist

First Layer: 500 tonnes at 0-18m/min

Top Layer: 390 tonnes at 0-23 m/min

Dynamic Breaking

First Layer: 140-650 tonnes at 0-24m/min

Top Layer: 110-520 tonnes at 0-31m/min

Lowering

First Layer: 0-11 m/min

Top Layer: 0-14,5m/min

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High Gear

Drive Hoist

First Layer: 500 tonnes at 0-18m/min

Top Layer: 130 tonnes at 0-70m/min

Dynamic breaking

First Layer: 50-215 tonnes at 0-71 m/min

Top Layer: 44-170 tonnes at 0-91 m/min

Brake Holding

Load: First layer 575 tonnes

Towing Spooled Wire: 1800 m x 2 Dia - 83mm

Working /Towing Drums - 400 Tonnes (2 Drums)

Length of drums: 2.100 mm

Inner drum dia.: 1500 mm

Dia of flange: 3600 mm

Wire capacity: 2697 m of 83mm wire

Low Gear

Dive Hoist

First Layer: 400 tonnes at 0-22m/min

Top Layer: 173 tonnes at 0-47m/min

Dynamic breaking

First Layer: 100-500 tonnes 0-30m/min

Top Layer: 44-215 tonnes at 0-68m/min

Lowering

First Layer: 0-15 m/min

First Layer: 0-15 m/min

High Gear

Drive Hoist

First Layer: 200 tonnes at 0-44 m/min

First Layer: 86 tonnes at 0-95 m/min

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Dynamic Breaking

First Layer:	50-250 tonnes at 0-60 m/min
Top Layer:	22-107 tonnes at 0-136 m/min

Lowering

First Layer:	0-30 m/min
Top Layer:	0-70 m/min

Brake Holding

Load:	First layer 650 tonnes
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Two Secondary winches

Length of drums:	4.500 mm + 900 mm socket part Inner drum
Dia.:	1500 mm
Dia of flange:	4500 mm

Wire capacity:

8" synthetic rope:	1600m (each)
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Duty on drum

First Layer:	138 tonnes at 0-22m/min
Top Layer:	56 tonnes at 0-54m/min

9. Navigation Equipment

- 1 (one) of Furuno radar S band
- 1 (one) of Furuno radar X band
- 1 (one) of slave screen for X and S band
- 2 (Two) of ECDIS- Wartsila, Navi Sailor 4000
- 1 (one) of GPS Furuno GP-150 & NGR 3000
- 2 (two) of Wind Speed/Directions MC139 & OMC 1390
- 3 (three) of Simrad GC 80 gyrocompass
- 2 (two) of Robertson autopilot APMK 3
- 1 (one) of Furuno Echo sounder
- 1 (one) of Furuno Doppler log
- 1 (one) of AIS-JOTRON/TR-8000

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10. Propulsion / Main Engines / Propellers

Main engines:	2 x Wartsila. Type W 16V32. 7360 Kw - 750 RPM
Total output:	20000 BHP (14720 KW)
Propeller:	Approx 4000mm dia. in nozzle
Rudder:	Two (2) of Ulstein High Lift flap rudders

11. Bow Thrusters

Bow thruster:	One (1) of Brunvoll FU-80-LTC-2000, 1425 Kw
Azimuth:	One (1) of Brunvoll AR-63-LNC-1600, 880 Kw

12. Stern Thrusters

Stern thruster:	One (1) of Brunvoll FU-63-LTC-1750, 880 Kw
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13. Generators

Two (2) off shaft generator sets

Shaft Generators:	3100 KVA (2480 Kw) 3 ø 450V 60Hz
Aux. Generator:	One (1) of aux generator, Mitsubishi S12R-MPTA Stanford 1425 KVA (1100 KW) 3 ø 450V 60Hz 1800 RPM
Aux. Generator:	One (1) of aux Generator, Caterpillar 3512B, Stanford 1425 KVA (1100 KW) 3 ø 450V 60Hz 1800 RPM
EM Generator:	One (1) of emergency generator 3406 394 KVA (315Kw) 3 ø 440V 60Hz (Caterpillar)

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14. Accommodation

1 man cabins:	20 x 1 = 20
2 men cabins	14 x 2 = 28
4 men cabins	1 x 4 = 4
Total number of bunks:	52

All cabins are equipped with WC and shower

15. Life Saving Equipment

In accordance with the latest Solas amendments.

Rescue and lifesaving equipment:

One (1) of FRC/rescue boat for 15 persons

Subject to weight: 82.5 Kgs per person

Six (6) of Life rafts for 25 persons each

Two (2) of Life rafts for 6 persons

Fifty Eight (58) of survival life jackets

Fifty Three (53) survival suits (1 for training purpose)

16. Communication Equipment

2 (two) of Furuno Inmarsat C Felcom 18 including telex terminal

1 (one) of Furuno MF/HF SSB radio station

1 (one) of Furuno MF/HF DSC Scanning receiver

2 (two) of Sailor VHF DSC 6222

2 (two) of Sailor simplex VHF 2048

1 (one) of Furuno NX-500 Navtex receiver

1 (one) of Jotron TRON 60 GPS EPIRB

2 (two) of Jotron 20 SART

8 (eight) of portable UHF's

1 (one) of portable VHF's

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17. Voice Communication & others

VSAT CYPRUS LINE:	+357 25060585 (Bridge)
VSAT GENEVA LINE:	+41 225189455 (Bridge)
FBB:	+870 773063988 (Presently in Instrument room)
IRIDIUM:	+881 631858381 (ECR)
MOBILE PHONE:	+41 762976621 (Master)
EMAIL:	msc.dragon@mscfleet.com

Wi-Fi for Crew Communications



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+31 (0)20 3080 899

info@dutchmarinecontractors.com

www.dutchmarinecontractors.com

ONE COURSE FOR EVERY DIRECTION

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