



SPECSHEET | AHTS

# MSC Dragon

215t BP | IMO: 9240952

## SPECSHEET

### 1. General descriptions

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

#### THE VESSEL IS EQUIPPED FOR THE FOLLOWING CONTINGENCY SERVICES:

- ANCHOR HANDLING
- TOWING

### Principal Dimentions

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

### Power

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

## SPECSHEET

### 2. Capabilities / Capacities

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

### 3. Discharge Pumps

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

### 4. Deck Cranes

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

### 5. Rig Chain Lockers / Chain Capacity

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

### 6. Tugger Mooring System

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

## SPECSHEET

### 7. Anchor-handling Equipment

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

### 8. Towing/Anchor-handling Winches

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

#### **Low Gear**

<b>Drive hoist</b>	
<b>First Layer:</b>	500 tonnes at 0-18m/min
<b>Top Layer:</b>	390 tonnes at 0-23 m/min

#### **Dynamic Braking**

<b>First Layer:</b>	140-650 tonnes at 0-24m/min
<b>Top Layer:</b>	110-520 tonnes at 0-31m/min

#### **Lowering**

<b>First Layer:</b>	0-11 m/min
<b>Top Layer:</b>	0-14,5m/min

# MSC Dragon

## SPECSHEET

### High Gear

#### Drive Hoist

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

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

### Dynamic braking

**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 braking

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

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

### Lowering

**First Layer:** 0-15 m/min

**Top Layer:** 0-35 m/min

### High Gear

#### Drive Hoist

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

**Top Layer:** 86 tonnes at 0-95 m/min

## SPECSHEET

### Dynamic Braking

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

### Lowering

<b>First Layer:</b>	0-30 m/min
<b>Top Layer:</b>	0-70 m/min

### Brake Holding

<b>Load:</b>	First layer 650 tonnes
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### Two Secondary winches

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

### Wire capacity:

<b>8" synthetic rope:</b>	1600m (each)
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### Duty on drum

<b>First Layer:</b>	138 tonnes at 0-22m/min
<b>Top Layer:</b>	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

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

### 11. Bow Thrusters

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

### 12. Stern Thrusters

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

#### Two (2) of shaft generator sets

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

## SPECSHEET

### 14. Accomodation

<b>1 man cabins:</b>	20 x 1 = 20
<b>2 men cabins</b>	14 x 2 = 28
<b>4 men cabins</b>	1 x 4 = 4
<b>Total number of bunks:</b>	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

<b>VSAT CYPRUS LINE:</b>	+357 25060585 (Bridge)
<b>VSAT GENEVA LINE:</b>	+41 225189455 (Bridge)
<b>FBB:</b>	+870 773063988 (Presently in Instrument room)
<b>IRIDIUM:</b>	+881 631858381 (ECR)
<b>MOBILE PHONE:</b>	+41 762976621 (Master)
<b>EMAIL:</b>	<a href="mailto:msc.dragon@mscfleet.com">msc.dragon@mscfleet.com</a>

Wi-Fi for Crew Communications



### Want to know more?

GET IN TOUCH

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[www.dutchmarinecontractors.com](http://www.dutchmarinecontractors.com)

## ONE COURSE FOR EVERY DIRECTION

Details of the equipment offered by DMC is done in good faith and believed to be correct but cannot be guaranteed.