

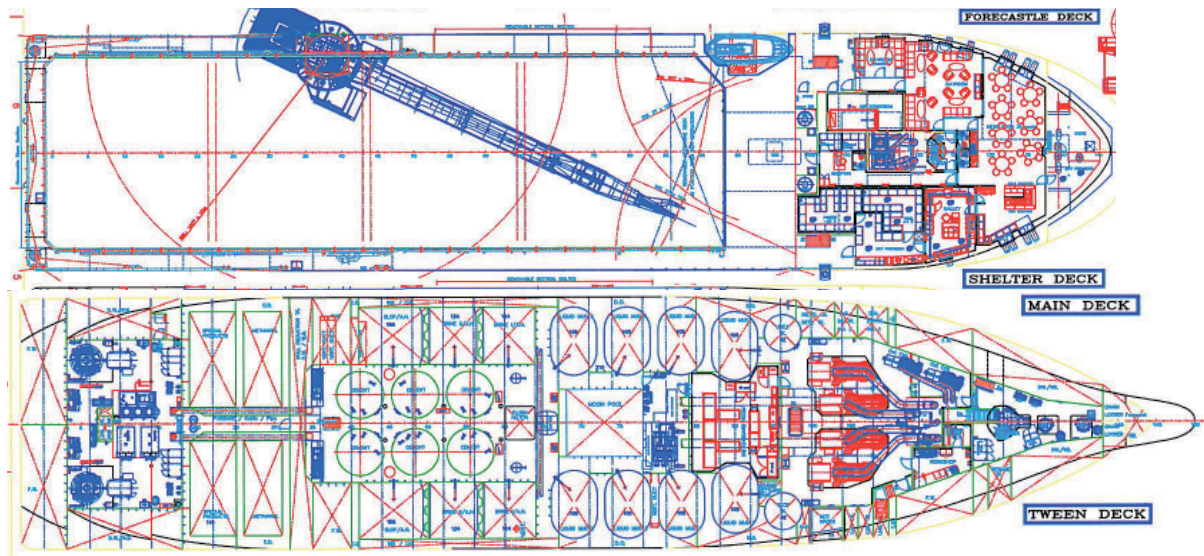
MULTIPURPOSE FIELD- & ROV-SUPPORT VESSEL

MV SIEM DORADO





MULTIPURPOSE FIELD- & ROV-SUPPORT VESSEL
 MT 6017 MK II



100 ts Knuckle Jib Offshore Crane w/AHC- Hydramarine HMC 3568
 -Focus on hoisting speed / capacities – clients requirements
 -Designed for up to 3,000 m water depth – 64 mm galv non rotating wire

Lifting Capacities

- 25 metric tons @ 32 m outreach single line (max)
- 75 metric tons @ 20 m outreach single line
- 100 metric tons @ 15 m outreach single line
- Winch / Crane are in base case designed for SWL 100 single line resulting crane load
- 75 ts SWL to 2,000 m depth giving 100 ton resulting crane load @ max rad 15m

Hoisting Speed single line 0-33 tons:..... 0-80 m/min

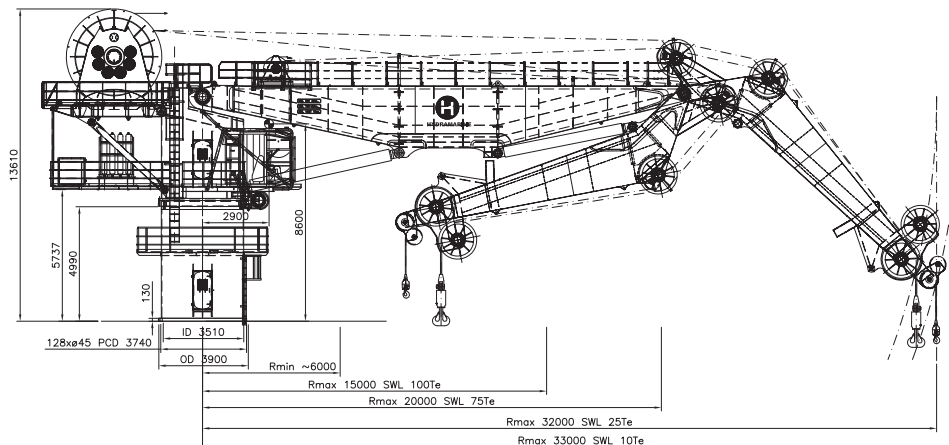
Hoisting Speed single line 33-66 tons:.....0-80-40 m/min
 Hoisting speed single line 66 – 100 tons:.....0-40-20 m/min

Minimum work radius:.....Approx 5 meters

Active Heave Compensation (example)

- Heave Period:..... 10 sec
- Nom Displacement:..... +/-3.2 m (6.4 m total motion)
- max acceleration: 1.8 m/s²
- max comp. speed: 2.0 m/s

Aux Hook Lifting Caps:..... 10 metric tons @ 33 m outreach
 - Hook travel length:..... 150 mtr
 - Certified for man riding



GENERAL

The ship, is diesel electric driven (frequency controlled propellers, pumps, fans), ROV-FIELD SUPPORT / SUPPLY & CONSTRUCTION SHIP, which is designed to meet the general offshore supply market, in addition to be specially designed for ROV and light Construction duties, equipped with efficient azimuth thrusters and a dynamic positioning system (Kongsberg SVC-400 or equal) for safe and economic service World wide.

The ship with its diesel electric propulsion system and optimized hull lines is designed for low fuel consumption and excellent sea-keeping. The high focus on reduced fuel consumption means also lesser emission to the environment.

MT 6017 Mk.II is designed according to the class notation "Clean Class" and "COMF-V rate 3". This in addition to low noise and vibration in hull and superstructure ensure high comfort for the crew and personnel onboard.

Owner: Siem Offshore Inc
Builder: Kleven Yard, Norway
Built: 2008/2009
Design: MT 6017 MK II
IMO No:9424508

Classification

DnV +1A1, E0, SF, Dynpos AUTR, Class notation CLEAN, COMF-V rate 3, Supply Vessel, dk(+)(10 t/m²), hl(2,5/2,8), LFL*, OIL REC, NAUT OSV, ICE C

Flag

Norwegian

Certificates

World wide
1966 Loadline Conv., SOLAS, MARPOL

Main dimensions

LOA: 93.60 m
LPP: 86.60 m
Breadth: 19.70 m
Depth 1st deck: 7.85 m
Draught scantling (max) 6.30 m
Gross tonnage (1969 conv.): 4850 GT
Net tonnage 1450 T

Trial Speed

Speed: 15,5 knots approx

CARGO /CAPACITIES

General

All cargo pumps are frequency/capacity controlled.

The cement bulk system includes dust collector with dust cyclone for the bulk tanks with automatic drainage.

Liquid Mud and Special Product tanks is free of any stiffeners, girders or floors. 10 off agitators for the mud tanks installed.

Wash water syst. w/wash. mash. for brine, mud and slop tanks to be heated to above 80 degree Celsius in the hot water tk.

CAPACITIES

Dead weight at d=6.30 m 4500 t
Deck cargo capacity: VCG 1m a.dk 3400 t
Cargo deck area: max 1046 m²
Deck strenght: 10t/m²
Fuel oil, total: 1.150 m³
Fresh water, total: 1.000 m³
Ballast water/ drill water: 1.530 m³
Liquid mudr: 860 m³
Slop (wash w): 43 m³
Slop: 300 m³
Brine: 495 m³
Drill water: 1.310 m³
Methanol: 175 m³
Special product: 220 m³
Cement: 300 m³
Emulsion Breaker: 100 m³
ORO: 1.130 m³

Liq. cargo discharge pumps

Fresh water: 4" 2 x 0 -150 m³/hour - 9 bar
Ballast 4" 2 x 0 -150 m³/hour - 9 bar
Fuel oil: 4" 2 x 0 -250m³/hour - 9 bar
Liq mud: 4" 1 x 0 -100m³/hour - 24 bar + 1 x 0 - 125m³/h - 24bar
Slop (wash w) 1 x 16m³/h vs. 5,0 bar. for emptying tks
Slop: 4" 2 x 0 -100m³/hour - 24 bar
Brine: 4" 2 x 0 -100m³/hour - 24 bar
Drill water: 4" 2 x 0 -150m³/hour - 9 bar

Methanol: 4" 2 x 0 -75m³/hour - 9 bar
Special prod: 4" 2 x 0 -75m³/hour - 9 bar
Cement: 4" 2 x compr. 30m³/min -5,6bar: 2x100te/hr
Emulsion breaker: 4" 2 x 0 -100m³/hour - 9 bar
ORO: 4" 2 x 0 -250m³/hour - 9 bar (comb.F.O.)

SHIP EQUIPMENT

DP system

One fully automatic DP system AUTR with redundancy in position reference and thruster control (DP-class 2)

Navigation & comm. equipment

1 x 3cm/X - band Radar, ARPA
According to GMDSS Sea area A3 to be installed.
1 x 10cm/S - band Radar,
ARPA & interswitch between radars
Helicopter monitoring, Helicom & Helibeacon inst.
1 x Mini-ARPA ARP-23
According to GMDSS A3:
1 x Direction finder (VHF and MF)
1 x Satellite V-system to be prepared for by yard
1 x NMEA distribution unit
1 x MF/HF 150W simplex Radio w/dualpow & DSC
1 x 12 channels DGPS satellite type Furuno
1 x Inmarsat C type Furuno Felcom 15&telex&EGC
1 x AIS type Furuno Universal AIS
1 x Inmarsat F 77 w/telefax and telephone. Interface to email system and ships internal communicat.syst.
1 x ECDIS voyage computer, type Telchart TRANSAS with
1 x Navtex-receiver, type Furuno Navtex 500
interface to radars, DGPS, Ecco Sounder, AIS syst, Gyro
1 x Watch keeping receiver system
3 x Gyro, Anschutz Standard 22

4 x VHF radio sets, stationary mounted, all channels
 1 x Autopilot, Anchutz Pilotstar D
 4 x UHF radio sets, stationary / 3 x VHF portable
 1 x Echo-sounder, type Furuno
 2 x Mobile teleph. & syst. / 1xGSM radio line interf.
 1 x Survey Echo-sounder, EA 400
 1 x Intercom w/radio & loudhailer / 1xSat.Com st.F
 1 x Navtex-receiver, type Furuno Navtex 500
 LAN arranged in accommodation.
 DP reference systems: 1xDGPS, 2xMRU-D/5,
 1x Fanbeam
 Various communications equipment. Ref. main spec.
 3 Gyro comp., 2xVRS, 2xWindSensor, 1xHi-
 Pap500, 1xTaut Wire.
 (Can be subject to change during building process)

Telephone Switchboard

- Lines in: Satellite communication station «F»,
 Mobiltel. 2xGSM mobile teleph. Syst., VHF,
 1x Mob.teleph.GSM Nokia30
 - Lines out: Bridge, Eng.ctrl.room, conf.room,
 offices, mess-/day-room, Captain, Chief Eng.,
 Client Cab.,Cabins, lounge etc.

Anchoring and mooring equipment

Tugger Winches: 2 x 15 tonnes
 Cargo securing winches: 6 off 5 tonnes hoist &
 5te brake, 3 winches each side in safe heaven,
 side of the cargo rail.
 Capstan/Mooring winches aft: 2 x 10 tonnes,
 hydraulic.
 Windl./Mooring: 2 off el. driven, drum/
 capstan min 10T

Deck cranes

Cranes boat deck: 2 off: 5te x 15 m knuckle
 boom cranes. One man-riding certified

EQUIPMENT FOR CREW

Deck/Rescue Equipment

Life-saving appliances according to

SOLAS and NMD

Helicopter Deck – Dia. = 21 m – (Sikorsky S – 92)
 1 off Fast Rescue Craft: Weedo 700 w/diesel
 driven water jet
 Life rafts: 3x35men at each side of the ship
 Survival Suits for 68 persons.
 20 off sockets for Containers in cabinets m.dck.
 ROV Connection: 2x1250 kVA 450V 60Hz
 w/conn. box on m.dck
 ROV Connection: 1x50 kVA 690/230V 60Hz
 w/conn. box on m.dck
 The ROV and Container connect. are protected
 against earth failure.
 Removable Bulwark arranged fore of crane,
 L=18,5m, on ps.
 Offshore Crane - AHC: 100te @ R10m, 15te @ R33m

Accommodation

Total:..... 68 persons
 Cabins:..... 18 x 1 (single) bed cabins
 Cabins:..... 25 x 2 (double) bed cabins
 Hospital:..... 1 off + 4 off ward beds
 Mess Room: 39 seats / persons
 Day Room:..... 32 seats / persons
 Conference/TV:.....9 persons (smoking room)
 Office:.....4 persons, sh. dck
 Office:..... 2 x off 2 persons, main. dck
 Sky Lobby:..... 1 off incl. Reception &TV Room
 Coffee shop:.....1 off, main deck
 Wardrobe:..... 1 off, w/51 lockers, main deck
 Reception:.....2 off, main deck
 Locker Room: 1 off, w/18 lockers, main deck
 Lounge/suite:..... 1 off, boat deck
 Conference/office room:..... 1 off, capt. deck
 Survey area: 2 off + operation office, bridge aft
 Offices:..... 2 off, Capt deck

Ventilation/A-C for accommodation

A high pressure, single pipe ventilation system

with constant air volume and full heating and air
 conditioning throughout the accommodation

Sanitary system

Vacuum based sanitary system.

MACHINERY AND PROPULSION

Propeller

Main az.thrstrs: 2 x 2200 kW
 (El. Driven R-R FP AZP100)

Main diesel engines

Genset. outp.:..... 4 x Cat 3516HD, each 2188bkW
 -Tot.:8750ekW
 All engines running on marine diesel oil.

Auxiliary gen

2 x 550 ekW
 All engines running on marine diesel oil.

Emergency generator

1 x 160 ekW / 200 kVA

PERFORMANCE (approx)

Max speed, approx.:.....15,5 knots
 Econ speed/consumpt.: 12 kn. ~10,2 t/day
 DP operation:..... 2 - 4 t/day
 Port consumption:0,8 t/day

Particulars believed to be correct, without
 guarantee – Revision 01/03/2007
 Some of the options, arrangements- and
 makers are not decided yet, and will be
 announced later



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