

CIMC RAFFLES

SHIP-SHAPED DRIILING UNIT

The Drilling Unit is primarily designed for riserless operation utilizing known and field proven technology. The vessel is also equipped for performing light well intervention work, riserless well completion, P&A, Wet Tow and subsea construction work in both shallow and deep water. In addition the vessel is prepared for installation of riser tensioning system enabling the vessel to perform slender well drilling and well intervention with riser.



Flag : Singapore

Class : DNV +Ship-shaped Drilling Unit (N),

DRILL (N), E0, HELDK-SH (refueling facilities included), DYNPOS-AUTRO, DK(+),HL (2.8),LFL*,COMF-V(3) C(3), CLEAN DESIGN, WINTERIZED BASIC,

DAT (-20°C), NAUT OSV(A), BIS

Marin Teknikk MT 6028 Design

Builder Yantai CIMC Raffles Offshore Ltd.

MAIN DIMENSIONS

Length Overall : 156.60 m LBP : 147.55 m Beam : 28 m Depth to Main Deck : 11.50 m Max. Draft Amidships : 8.45 m Scantling Draught : 8.55 m Work Deck : 2280 m2 Moon Pool (L x B) : 8 m x 8 m : 16,750 tonnes Gross Tonnage Net Tonnage 5 030 tonnes Dead Weight : 13,000 tonnes

DESIGN WORKING CAPACITIES

: 3,000 m Water Depth

Drilling Depth : 1,500 m (top hole drilling)

9,000 m (well intervention)

Transit Speed : 14 kns@ 5.5 m

TANK CAPACITIES

Potable Water : 600 m3 Technical Water : 2,200 m3 : 1,600 m3 MGO Ballast Water : 9.300 m3 : 2,300 m3 Liquid Mud Lubricating Oil : 65 m3 : 50 m3 Hydraulic Oil Miscellaneous Tanks : 60 m3 : 160 m3 Sewage Tanks : 200 m3 **Grey Water Tanks** : 350 m3 Hydrocarbon Slop Tank : 200 m3 Methanol : 750 m3 Dry Bulk (cement, barite)

DYNAMIC POSITIONING

DP Class : DYNPOS-AUTRO

Ref. Systems : 3 Master gyro compass units

3 Wind sensors shall be delivered

3 motion reference units 3 HiPAP 501 systems

1 Taut wire rated for 500m water depth

1 Seapath300.

ACCOMODATION

Berths (cabins) 110 persons (24 x 1 man + 43 x 2 men)

MACHINERY

Main Engines : 4 x B32 40L9ACD; 2 x B32 40L6ACD,

total not less than 22.000kW

Main Generators : 2 x generator sets, 2735 ekWat 720 RPM;

4 x generator set, 4145 ekW at 720 RPM

Emergency Generator : 1000 kW, 1800 rpm **Propulsions** : 2 x min. 3500 kW

Tunnel Thrusters : 2 in the fore ship, min. 1500 kW

1 in the aft ship, min. 880 kW

Azimuth Thrusters : 2 in the fore ship, min.1500 kW

DRILLING EQUIPMENT

Derrick

Hook load : 681 metric Tons

Drawworks

Winch load : 377 Tons @ 40 m/min

Rotary Table

49 ½ hydraulic operated rotary support table with dyn. slip Ring,

3 motors with 45000 lbs-ft torque.

Top Drive

Lifting capacity : 681 metric Tons Motor and Power : 2 x 742kW, AC Type

Max drilling speed : 180 rpm : 156000 Nm Break-out torque Max continuous drilling torque : 80000 Nm Max mud pressure : 517 bar • Pipe Handling Crane (Cargo Rail Crane)

Crane SWL : 6.0 Tons (with Grippers)

Load radius : min.26 m

• Hydraulic Roughneck

'Making up' and 'breaking out' of drill-pipe and collars ranging 3 1/2" to 9 3/4" in diameter, casing up to 25" in diameter.

Mud System

Mud pumps : 3 x 1180 kW (1600 HP), 345 bar (5000 psi)(present

517 bar (7500 psi) (changing pump module)

Shakers (option) : 3 x 4500 lpm each at 1,4SG mud density

Skid System

Push-pull (2 off) : 100 metric Tons

: aft of moon-pool for 100 tons load Skidding beams

fwd of moon-pool for 200 tons load

Option : Pallets (200 tons capacity)

• ROV System (2 off)

Prepared for client installation of WROV 3000 mSW-TMS

DECK CRANES

Subsea Crane : 125 ton @ 12 m offshore AHC type Knuckle Boom Crane : 20 ton @ 35 m (used for ship-to-ship

operation)

HELIDECK

Dimension : Dia. 26.1m(Sikorsky S92) (CAA-N)

LIFESAVING EQUIPMENT

Life Boats : 2 x 110 persons

Life Rafts : 2 x 110 persons (escape chute type)



Yantai CIMC Raffles Offshore Ltd. Add: No.70 Zhifu East Road Zhifu Island. Yantai, Shandong, China Tel: +86 535 680 1451 www.cimc-raffles.com

