

SUPER M2 JACK-UP DRILLING UNIT



The Super M2 is a self-elevating drilling unit, designed for all year benign conditions in accordance with ABS assessment criteria. It is based on the F&G L780 Mod II jackup design.

The unit is able to work up to 90 meters of water with its

standard leg length of 125m and normal jacking system of 54 jacking units.

It has a maximum storm variable deckload of 2,722 tonnes (6000kips) and a cantiliver outreach of 15.24 meters (50 ft).

Designer: Friede & Goldman
Builder: Yantai CIMC Raffles

Class: ABS
Notation: ABS +A1 Self-Elevating Drilling Unit, 2006.
Flag: Liberia

SUPER M2 JACK-UP DRILLING UNIT

PRINCIPAL DIMENSIONS

Length o.a.	: 59.745 m
Beam o.a.	: 55.78 m
Depth moulded	: 7.62 m
Transit Draught	: 4.8m
Number of Decks	: 2
No. of legs	: 3
Leg length	: 125.3m
Spud can diameter	: 12.09m
Spud can height	: 4.57m

Design Environment

Service area	: Mexico Gulf
Water depth	: 91.44m
Air Temperature	: -10°C min. to 45° ~max.
Humidity	: 20% min. to 100%max.
Wind Survival Operations	: 100kts
Seawater Temperature	: 0°C min. to 32°
Density	: 1025 kg/m ³
Corresponding wave period	: 13.5sec
Wave Height	: 15.24m(Survival, of the water depth 300ft); 16.46m(Survival, of the water depth 250ft)

CARGO CAPACITIES

Deck Load	: 9000kips
Pipe rack	: 540lbs/ft ²
Main deck (outside pipe rack)	: 425lbs/ft ²
Quarter's deck	: 90lbs/ft ²
House Tops	: 150lbs/ft ²
Machinery Spaces	: 270lbs/ft ²
Sack stores	: 540lbs/ft ²

MACHINERY/PROPULSION

Main engines and Generators	:CATERPILLAR 3516B HD Offshore Generator Set : 5 sets Cat 3516B HD Engine 1603KW @ 1200rpm SR4B Generator 2000kVA, 600V, 60Hz, 0.8pf, 3 Phases.
Emergency	:CATERPILLAR 3412C Emergency Generator Set: 1 set Cat 3412C Radiatorcooled Engine 550kW @ 1800rpm SR4B Generator 687kVA, 480V, 60Hz, 0.8pf, 3 Phases.

FIRE FIGHTING & SAFETY

Fire Fighting	:2 x pumps 160 m ³ /hr @ 7 bar RPM 3500 rpm/480V-3P-60HZ/IP55
Life Boats	:2 x 110 person 1 x Motor Rescue Boat (6 men)
Life Rafts	:5 x 25 men

HELIDECK

1 x Heli-deck suitable for Sikorsky S-61N helicopter

DECK MACHINERY

Main Deck Crane	:1 x 120ft 50ton at 25ft/diesel drive 1 x 100ft 50ton at 25ft/diesel drive
4 Point Moor System	:4 x Single Drum winches, Brake Hold 1170kN, first layer
Anchors	:4 x anchors, 3.1752T ea
Towing Gear	:Bridle , 8mφ66mm steel chain; Hook-up, 5Ton Air tugger winch Rating, MBL.320T

ACCOMMODATION

110 men.

STORE CAPACITIES

Diesel fuel	: 24,298 ft ³ (688 m ³)
Lube oil	: 167 ft ³ (4.73 m ³)
Drill water	: 36,302 ft ³ (1,208 m ³)
Potable water	: 13,135 ft ³ (372 m ³)
Mud process tank	: 2,966 ft ³ (84 m ³)
Active liquid mud	: 25,651 ft ³ (726 m ³)
Independent base oil storage	: 5,049 ft ³ (143 m ³)

DRILLING PACKAGE

Derrick	: TSC/ bolted Single Static Bottle Neck, 170 ft height, Wind to 70 Knots with full setback load as per API, Wind to 100 Knots with 0 setback load as per API.
Rotary Load	: 1500kips
Set-back	: 750kips
Cantilevered Skid	: Cantilever XY skid: 50ft by 15ft
Draw-works	: TSC/ D2330 drawworks, Rated input power 2 x 2330hp, Maximum line pull 14 lines, 1,200,000 lbs. VFD driven AC motors.
Top Drive	: Canrig, electric type, 750 short ton; Test pressure/working pressure 11250psi/7500psi; Output power, 1150 hp GE B20AC; Maximum speed rating, 18,000ft-lb (24,400Nm) @ 270RPM.

WELL CONTROL EQUIPMENT

Diverter	: TSC 29-1/2", 500 psi WP.
BOP stack	: 21-1/4", 2000 psi WP.
BOP stack	: 13-5/8", 10000 psi WP.

HIGH PRESSURE MUD SYSTEM

System working pressure	: 7,500 psi
System test pressure	: 11,250 psi

MUD PUMPS

3 x TSC Work Force -2000hp triplex single mud.

