



SUPER M2 - ELEVATING SUPPORT VESSEL (ESV)

The Super M2 elevating support vessel is a brand new design in offshore industry based on F&G Super M2 sound design. It is specially designed and built for large oil well operations, such as continuous tube drilling, oil well stimulation and small oil fields development. The Super M2 is a multi-purpose service vessel which can be used as a jack-up work over rig and support vessel. It has one main skidding crane (280mt capacity), and two 45-ton deck cranes on port side and starboard side, while its living quarters can accommodate 120 men with expansion to 200 men. And its maximum operation water depth is 91m (300ft).



Class : ABS

Notation : +A1,Self Elevating Unit, +AMS-NP, +DPS-1

PRINCIPAL DIMENSIONS

Length o.a. : 73.215m Beam o.a. : 55.78m Depth moulded : 7.62m Transit Draught · 55 m

Hull Material : Welded Steel Construction, AH36

No. of legs : 3

: 128.946m Leg length Spud can diameter: 15.24m Spud can height : 4.572m

DESIGN ENVIRONMENT

Air Temperature : -10°C min. to 40°C ~max. : 20% min. to 100%max. Humidity

Wind Survival Operations: 100kts SW Temperature : 0°C min. to 32°C

: 1025 kg/m³ (For design purposes) Density

Corresponding wave period: 13.5sec

: 15.24m(Survival, of the water depth 300ft); Wave Height

16.46m(Survival, of the water depth 250ft)

CARGO CAPACITIES

: 9000kips Deck Load : 540lbs/ft² Pipe rack Main deck (outside pipe rack):540lbs/ft²

Quarter's deck : 90lbs/ft2 House Tops : 150lbs/ft2 Machinery Spaces: 270lbs/ft² : 540lbs/ft² Sack stores

MACHINERY/PROPULSION

Engine and Generators:

: 3 x GE 7FDM16, 2485kW, rated at Main

3500bHP,4160V, 3ph, 900rpm

60Hz, with 3 remote mounted radiators.

: 1 x GE 7FDM8, 1240 kW, 4160V, 3ph, Emergency

900rpm, 60Hz

: 3 x Steer-prop Azimuth Thrusters, SP35, Thrusters

Rated at Maximum ABS continuous rating

2500KW at 1200RPM.

Fuel Purifier : 250 GPH

Oily Water Sep : 44 GPM, US10000 Sewage Plant : 1 x 225 man capacity.

Ballast System : Computerized pneumatic control

FW Generator : 1 waste heat water-maker units (Alfa Laval),

be each of a capacity of 8000GPD.

Air Compressors : 3 x IR for rig air, the air dryer will be

provided with a separate skid base.

FIRE FIGHTING & SAFETY

: 2 x pumps 91 m³/hr X0.701MPa Fire Fighting : 2 x 120 person with davits Life Boats

1 x Motor Rescue Boat (6 men) with davit

Life Rafts : 5 x 25 men

HELIDECK

1 x Heli-deck suitable for Sikorsky-S-92N helicopter

NAVIGATION EQUIPMENT

AIS : 1 x Furuno FA150 **GPS** : 1 x Furuno GPA-017S **DGPS** : 1 x Furuno GP150D Magnetic Compass : 1 x Cassens & Plath

Radar : 1 x X-band Furuno FAR-2127

1 x S-band Furuno FAR-2137S/12

Echo Sounder : 1 x Furuno FE-700 : 1 x Furuno NX700P Navtex Speed Log : 1 x Furuno DS-80

Anemometer : 1 x RM Young Wind Tracker

COMMUNICATION EQUIPMENT

One (1) telephone exchange

One (1) public address system

One (1) sound powered telephone systems

Four (4) portable VHF transceivers

Four (4) portable Motorola UHF transceivers

Three (3) fixed radios for Navi. bridge and control room.

Three (3) Wave-Net Interface Module for local net of computers

Two (2) INMARSAT C Furuno Felcom 15 One (1) INMARSAT F Sailor Fleet 77

DP SYSTEM

DP-1 system supplied by L-3.

ACCOMMODATION

The accommodation and mess facilities are fit for 120 persons. The accommodation shall follow the guidelines for UK HSE regulations and be able to house 120 men in 4-man cabins (Have Approached Flag state for release).

REFRIGERATED STORAGE CAPACITY

Cold store : 1 x 15 m3 walk in Freezer Chiller : 1 x 15 m3 walk in Chiller room **Provisions** : 1 x 30 m³ walk in Provisions room

DECK MACHINERY

: 2 x Slewing Crane (Each with capacity of Main Deck Crane

Fixed lifting 45T@36.6m & Slewing 7T @ 39 m)

4 Point Moor System: 4 x Single Drum winches, Brake Hold

60T, first layer

Anchors : 4 x anchors, 7T ea : Tow Brackets 320T MBL Towing **Tugger Winches** : Pull Load 30 T at 4.5m/min,

14T at 9m/min Drum capacity 750m x Ø 38 mm

SWR@12 layers



