GERNERAL

The MAU is a 4-legged self-elevating, self-propelled DP2, multi-purpose unit built to operate in harsh environment areas such as the North Sea. The unit can operate in 55 m water depth in North Sea conditions (sustaining 10,000-year wave). In benign circumstances the unit can operate in 80 m water depth.

ACCOMMODATION

The accommodation is suitable for 200 persons. The cabins are equally equipped, laid out with 2 cabins sharing a common shower/toilet cabinet. A full entertainment system is available in each cabin.

The vessel offers all facilities to allow smooth operation with full accommodation of 200 person. This includes galley and mess room facilities allowing queue-less catering. The facilities also include ample changing rooms, recreational rooms, hospital, gym, laundry and a well-positioned dirty coffee lounge. The hotel facilities also include a reception area with heli-launch with a briefing room. Office facilities for client use includes offices and conference rooms.

POWER AND PROPULSION

The unit is self-propelled by 4 steerable thrusters. The DP2 system ensures a safe positioning near the platform.

Four main diesel generators, located in two separate engine rooms, provide power for propulsion, cranes, the drilling package and all auxiliary functions. The unit is dual fuel ready.

WIND & INSTALLATION

The unit is equipped with two Le Encircling Cranes (LEC) of 1,200 mt lifting capacity each and a hook height above deck of 122 m. For safe handling, a tagline system is built in the crane. Sufficient accommodation capacity is available to accommodate the crew required for the installation of the wind turbines. The unit is designed to operate in 55 m of water depth “all year around” and in 80 m benign environment. If needed for lifting at high elevation, the airgap can be increased to 40 m enabling a hook height of 40+8+122 = 170 m above sea level.
LUCTOR ET EMERGO

MAU SPECIFICATION

GENERAL
- **Built**: China Merchants
- **Jack-up type**: Self-propelled, DP-2
- **Flag**: Dutch
- **Classification**: DNV-GL
- **Helideck**: SN61N/S92
- **Helideck compliance**: CAP437
- **Accommodation**: 200 POB
- **POB Cantilever - X**: 24.4 m
- **- Y**: +/- 20 m

MUD SYSTEM
- **Mud pumps**: 2x 1,200 kW
- **Shale shakers**: 2x MudCube
- **Swarf unit**: 1,200 GPM

WELL CONTROL
- **BOP – Rams**: 1x double 13 5/8
- **BOP – Annular**: 1x 13 5/8

DRILLING EQUIPMENT
- **Mast**: 454 mt
- **Hookload**: 454 mt
- **Drawworks**: 1,100 kW
- **Racking capacity**: 18,000 ft.
- **Top Drive**: 52,000 ft. lbs cont
- **Pipe handling**: Automated
- **Coiled Tubing support**: 50 mt
- **Coiled tubing handl height**: 9.1 m

PRINCIPAL DIMENSIONS
- **Length x breadth**: 106 m x 65/52 m [Aft/Fwd]
- **Transit Draft**: 5 m
- **Leg Length**: 127 m
- **Leg spacing longitudinal**: 63 m
- **Leg spacing – transverse – fwd**: 38 m
- **Let spacing – transverse - aft**: 45 m
- **Design water depth - harsh**: 80 m
- **Design water depth - benign**: 80 m
- **Variable load (with cantilever)**: 6,000 mt
- **Variable load (cantl removed)**: 7,600 mt
- **Deck space**: 3,400 m²

STORAGE CAPACITIES
- **Fuel**: 1,750 m³
- **Drill water**: 714 m³
- **Potable water**: 417 m³
- **Liquid mud**: 700 m³
- **Barite / Bentonite / Cement**: 4x 60 m³

POWER & PROPULSION
- **Main Engines**: 4x 3,800 kW
- **Main Generators**: 4x 3,500 kW
- **Thrusters**: 4x 2,350 kW

CRANES
- **Standard boom**
  - **Max hook height above deck**: 92 m
  - **Main**: 1,200 mt @ 27 m
  - **Aux**: 50 mt all radii

- **Extended boom**
  - **Max hook height above deck**: 122 m
  - **Main**: 1,200 mt @ 27 m
  - **Aux**: 50 mt all radii
The pipe handling equipment is fully automated, limiting manual handling. Tripping speed is up to 4000 ft/hr and a specific tubing P&A iron roughneck is available for a safe and efficient handling of the production string. The cantilever has an extended reach of 24.4 m.

The mud system located in the hull contains 2x 1200 kW, 5000 psi mud pumps, mudpits, mud mixing facilities and 4 bulk tanks for cement/bentonite/barite storage. The mud system located in the cantilever contains high performance shakers, a swarf unit to remove steel cuttings and a vacuum degasser and mud treatment tanks.

The well control equipment consists of a BOP (Blow Out Preventer) 1x double ram, 1x single ram – 13 5/8 10,000 psi a 5,000 psi Annular Preventer and a standard Kill & Choke Manifold.

Features for an efficient P&A operation: The unit is equipped with a Swarf unit for the removal of steel cuttings.

The cantilever has an extended reach of 24.4 m and a side-way reach of 20.0 m each way. A dual well center is available to facilitate coiled tubing or wireline operations on a second well slot. This enables to work on two wells simultaneously. The handling of the tubulars is automated with high tripping speeds.

During the P&A operations, preparations can take place to enable the platform removal such as steel reinforcements or auxiliary structures such as the helideck, tanks, crane, removal of formation cuttings from the seabed, flush and disconnect flowlines etc. Therefore, there is no need to mobilise a hotel accommodation platform. The MAU has sufficient capacity (crane / bed space) to perform all preparation work.

There is no need for a heavy lift vessel for the removal of the platform. The MAU is designed to do this. The shallow draft of the unit enables the MAU to deliver the decommissioned topside/jacket on the quayside for further disposal.