



# MAERSK REACHER



# MÆRSK REACHER

## TYPE

MSC CJ50-X100 MC, 350 ft jack-up drilling rig

## BUILT

Keppel FELS, 2008

## CLASS

American Bureau of Shipping

## FLAG

Denmark

The **MÆRSK REACHER** is the fourth in a series of four identical next generation, high efficiency jack-ups. The rig is capable of operating in most parts of the world.

A large number of the innovative features introduced on the world's largest and most advanced ultra harsh environment jack-up rigs, **MÆRSK INNOVATOR** and **MÆRSK INSPIRER**, have been implemented in the design of the new 350 ft jack-up rig. These features are targeted at minimising non-productive time during operation.

### The main features of the **MÆRSK REACHER** include:

- High level of safety
- Year-round operation in 350 ft of water in benign areas and 300 ft of water in the North Sea
- Maximised drilling efficiency and uptime, due to off-line activities, drilling with fourables and large setback. Optimized for concurrent operations.
- Combined cantilever load of 1,280 t at 50 ft cantilever reach and 675 t at 70 ft cantilever reach
- XY cantilever with very large tubular capacity for simultaneous drill pipe and casing racking
- Dual pipe handling. While one string is working in the well bore, a second string of casing, tubing, drill pipe or bottom hole assembly can be assembled/disassembled, for subsequent transfer for use in the well bore
- Fully mechanised tubular handling
- Dual drilling fluid system for easy change between mud types
- 18 ¾" 15,000 psi BOP system
- 4,500 t variable load
- Prepared for HP/HT operations
- Accommodation for 120 people.



## MAIN PARTICULARS

| DIMENSIONS   | IMPERIAL       | METRIC         |
|--|----------------|----------------|
| Length overall   | 229 ft         | 70 m           |
| Width overall  | 223 ft         | 68 m           |
| Depth  | 31 ft          | 9.5 m          |
| Length of legs   | 479 ft         | 146.3 m        |
| Cantilever – max. reach: aft of stern<br>total transverse skidding | 70 ft<br>46 ft | 21.3 m<br>14 m |

| WEATHER/DESIGN CRITERIA | IMPERIAL  | METRIC     |
|-------------------------|-----------|------------|
| Water depth             | 350 ft    | 106 m      |
| Wind speed              | 100 knots | 51.4 m/sec |
| Penetration             | 15 ft     | 5 m        |
| Wave height             | 55.7 ft   | 17 m       |
| Current (surface)       | 1.5 knots | 0.8 m/sec  |
| Air gap                 | 41 ft     | 12.5 m     |

| PARTICULARS                  | IMPERIAL               | METRIC             |
|------------------------------|------------------------|--------------------|
| Rated drilling depth         | 30,000 ft              | 9,150 m            |
| Hook load static w/top drive | 1,500,000 lb           | 680 t              |
| Rotary load                  | 1,500,000 lb           | 680 t              |
| Setback load                 | 1,320,000 lb           | 600 t              |
| Variable load                | 9,909,000 lb           | 4,500 t            |
| Derrick                      | 210 ft x 45 ft x 45 ft | 64 m x 14 m x 14 m |
| Jacking speed                | 1.47 ft/min            | 0.45 m/min         |
| Drill water                  | 5,500 bbl              | 875 m <sup>3</sup> |
| Fuel oil                     | 3,400 bbl              | 540 m <sup>3</sup> |
| Nontoxic oil                 | 1,550 bbl              | 250 m <sup>3</sup> |
| Brine                        | 3,145 bbl              | 500 m <sup>3</sup> |
| Potable water                | 2,750 bbl              | 440 m <sup>3</sup> |
| Liquid mud                   | 6,000 bbl              | 950 m <sup>3</sup> |
| Bulk cement                  | 7,050 ft <sup>3</sup>  | 200 m <sup>3</sup> |
| Bulk mud                     | 10,550 ft <sup>3</sup> | 300 m <sup>3</sup> |
| Slurryfication tank          | 2,500 bbl              | 400 m <sup>3</sup> |
| Accommodation                | 120 persons            | 120 persons        |



## DRAWWORKS

Wirth GH 4500 EG-AC with three AC motors & gears.  
Grooved for 1 $\frac{3}{4}$ " drill line.

## TRAVELLING EQUIPMENT

Maritime Hydraulic traveling block. Capacity 680 t, grooved for 1 $\frac{3}{4}$ ".

## TOP DRIVE AND PIPE HANDLING

Maritime Hydraulic DDM-750-AC, 680 t capacity, with pipe handler and block retract system. Powered by one air-cooled AC motor. Max. continuous torque 64,400 ft/lb at 100 rpm and max. intermittent torque of 87,800 ft/lb.

Maritime Hydraulic bridge crane with lower guiding arm. Lifting capacity of 13.6 SWL. Racker head tubular capacity 3 $\frac{1}{2}$ " – 14".

Maritime Hydraulic Torque Master (Iron Roughneck) with torque/turn capability. Tubular handling range 2 $\frac{7}{8}$ "–20". Handles DP, DC, stabilizers bits, casing, tubing & liners.

Maritime Hydraulic Auto Roughneck MH 1899, tubular range from 3 $\frac{1}{2}$ " drill pipe to 9 $\frac{1}{2}$ " drill collars, handles drill pipe, HWDP, Drill collars and BHA components

## ROTARY TABLE

Maritime Hydraulic type RTSS 49 $\frac{1}{2}$ " rotary table with 99,500 ft.lbs torque and 40 RPM. Opening 49 $\frac{1}{2}$ ". Max. load 800 t.

## MUD PUMPS

Three Wirth TPK 7 $\frac{1}{2}$ " x 14". 2,200 hp, rated for 7,500 psi.

## CEMENTING EQUIPMENT

15,000 psi wp. On free placement agreement.

## WELL CONTROL EQUIPMENT

Hydril Compact 18 $\frac{3}{4}$ " – 15,000 psi BOP consisting of one 10,000 psi annular + two 15,000 psi double ram preventers. Diverter system, 500 psi.

## MUD RETURN SYSTEM

Four Swaco BEM 650 high performance shale shakers. Two Swaco vacuum degassers. The rig is prepared for a slurrification unit with a slurry holding tank.

## DRIVE PIPE SUPPORT DECK

60 t hinged deck for conductor support.

## TENSIONER SYSTEM

Vertical conductor tensioning system consisting of four 75 t hydraulic cylinders.

## DRILLING INSTRUMENTATION

Maritime Hydraulic "Drill View" drilling instrumentation.

## POWER SUPPLY

Four main A. Van Kaick/DSG 114M1 generator sets with a continuous power rating of 2,665 KVA@cosq 0.9 each

## CRANES

Two cranes with 47.3 m (155 ft) boom, 80 t static and 40 t dynamic load.

One knuckle boom crane with 25 m (82 ft) reach, 12 t load, 5 t winch.

## HELICOPTER DECK

22.6 m (74 ft) diameter helicopter deck suitable for EH-101 and Sikorsky S-61N helicopter.

## SAFETY EQUIPMENT

Lifesaving and fire fighting equipment in accordance with Danish Maritime Authority and class.

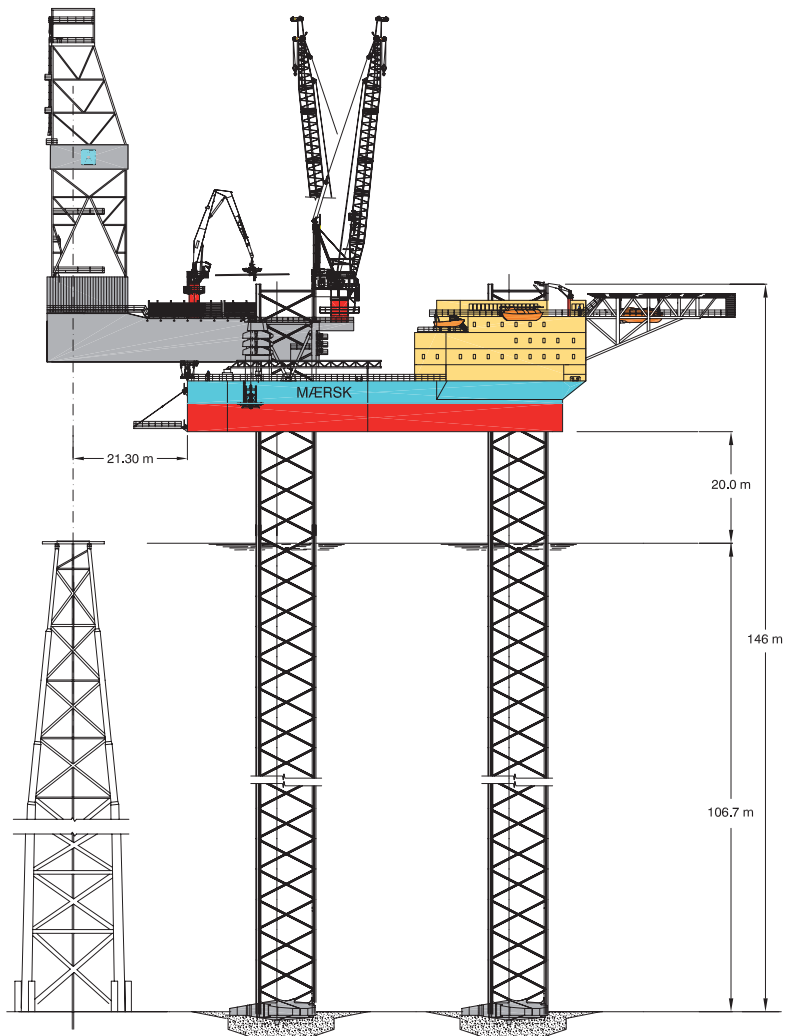
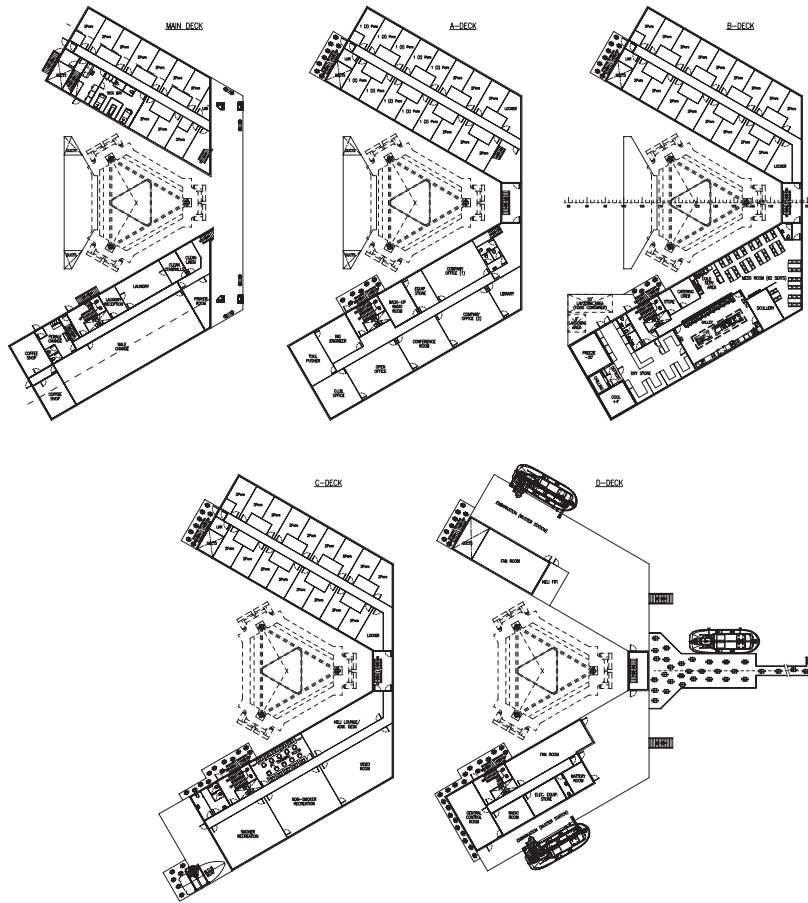
## ACCOMMODATION

Accommodation is located in two blocks shaped as a "V", wrapped around the forward leg.

Port block is a quiet area with cabins - starboard block holds all offices, recreation rooms and service facilities.

120 persons in two-man rooms with full facilities.





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