FINCANTIERI OFFSHORE VESSELS

DESIGNED TO GO FURTHER

By means of HIGH-INTEGRATED SYSTEMS, we can offer reliable, customized, TURNKEY OFFSHORE VESSELS.

Every day we have to face a new challenge and thanks to our CONSTANT TECHNOLOGICAL INNOVATION and the use of CUTTING-EDGE TECHNOLOGY, we achieve an important milestone: OPERATING IN A SAFE, PERFORMING AND COMFORTABLE WAY.

A SEA CHANGE IN THE DRILLING MARKET

PERFORMANCE

RESEARCH, EXPERIENCE

AND CUTTING-EDGE TECHNOLOGY.

ON THIS BASIS FINCANTIERI OFFSHORE HAS DESIGNED PROXIMA: A REVOLUTIONARY, EFFICIENT AND RELIABLE DRILLSHIP EQUIPPED WITH AN INNOVATIVE DRILLING SYSTEM.

PROXIMA is a revolutionary design with an innovative drilling system made of TWO CYLINDRICAL SHAPED TELESCOPIC TOWERS and the largest open drillfloor on the market. This innovative ship configuration significantly increases the SPEED OF THE DRILLING PROCESS, it widely improves the ergonomics of the operational areas and it also results in MORE EFFICIENCY, IMPROVED SAFETY, better comfort for people on board and a HIGHER TRANSIT SPEED.

The overall result is a powerful, environmentally friendly tool which ensures LOWER OPERATIVE COSTS and LESS POWER DEMAND.
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The innovative Castor Drilling Solution’s tower and lifting system represents a REAL EVOLUTION STEP IN THE OFFSHORE DRILLING WORLD enabling to increase the speed of the drilling activities and thedrilling performances. Furthermore the smart integration achieved with the vessel improves the ergonomics and the safety of the operations.

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The innovative Castor Drilling Solution’s tower and lifting system represent a new evolution in the offshore drilling world, enabling to increase the speed of the drilling activities and the drilling performances. Furthermore the smart integration achieved with the vessel improves the ergonomics and the safety of the operations.

**Main Advantages**

- Minimizing the risk of hazardous falling objects due to tower design.
- Maintenance-friendly design: all main components are located outside, at drill floor level.
- Wide open drill floor layout ensures full access to drill floor using rig cranes and provides excellent overview over all operations.
- Lowered CoG increases the stability of the vessel.
- Proven structural tower design from offshore windmill industry.
- Balanced lifting ensures optimal load distribution over the support tower.
- Higher tripping speed (varying from +200% to 90% depending on the lifting load) considerably reduces the IPT.
- Optimized hoisting performance based on constant power consumption and power regulation system.
- Less power required at nearly lifting capacity, which allows a significant HCU size reduction.
- Winches are operated by digital hydraulic motors which are proven technology from windmill industry.
- Lower speed winches reduce the adhesion noise at drill floor and extend the equipment life.

**The compensating system is located under the winch at drill floor/crane deck level with a capacity up to 400 t/m.
**

**The hoist and crane system is an integrated part of the compensating design.**

The extractable system allows the maintenance of all tower components with a single deck crane. It enables reduced air draught.

## Innovative Cylindrical Drilling

- **Tower designed for a max lifting capacity of 200 t/m.
- Multiple lifting wires provide redundancy and safety.
- Low speed winches reduce the adhesion noise at drill floor and extend the equipment life.**

The compensating system is located under the winch at drill floor/crane deck level with a capacity up to 400 t/m.

The hoist and crane system is an integrated part of the compensating design.

## Efﬁciency

1. **Faster Drilling Operation**
   - Higher tripping speed
   - Multiple lifting wires provide improved redundancy and safety

2. **Compensation System**
   - Enhanced compensation capacity up to 1,000 t/m
   - High redundancy and ﬂexible design

3. **Auxiliary Standbuilding Tower**
   - Additional off line standbuilding tower inside the setback area directly connected to the pipe deck

4. **Automatic Riser Handling System**
   - It increases the speed and the safety of riser joints handling thanks to a fully automated and fully redundant system

5. **Increased Transit Speed**
   - Optimized bulk forms increase the transit speed to 14 knots (based on all propulsions thrusters only)

## Safety

9. **Wide Open Drill Floor**
   - Up to 50% of additional area
   - Increased visibility

10. **Inside Escape Corridors**
    - Straight and clean internal escape ways improve the personal traffic

11. **Monolithic Tower Design**
    - Minimization of risk for hazardous falling objects due to tower simplicity (no bolts)
    - Reduced maintenance costs

## Operability

12. **Additional Help Area**
    - It increases the safety for the helicopter operations

13. **Two 20kpsi BOPs**
    - Designed to handle up to 2 BOPs 20,000 psi, 7 cavities

14. **Enhanced Material Handling**
    - Designed for an improved material handling with forklifts both on internal and external decks including the drillfloor

15. **Large Accommodation Area**
    - Crude-friendly environment for 250 persons
    - All cabins are provided with private toilet and lower beds

## Maintenance

16. **Retractable Thrusters**
    - Azimuthal mountable retractable thrusters.
    - This innovative system allows the maintenance without drydock needs

17. **Telescopic Towers**
    - The retractable system enables the maintenance of all tower components with the deck cranes

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**Performance**

- **Enhanced Tower Lifting Capacity**
  - Lifting capacity up to 1,650 t/m

- **Setback Inside the Vessel**
  - Capacity of 2,000 t (2,200 stb) aho transit

- **Larger Deck Areas**
  - Available deck areas of at least 4,790 m² (51,560 ft²)

**Class Notation**

The vessel complies with the latest international rules and regulations and the concept design has been ‘Approved in Principle’ by ABS.

The vessel carries the following class notation:

- **A1** – Drill Ship Circle (E), AMS, MDCS, MODULS-3, EDOS, ECS, CRC, HELIDC (SRF), BWL, UMLD, POT

**Main particulars**

- Length Overall: 250.8 m (818.4 ft)
- Length Between perpendiculars: 248.8 m (814 ft)
- Breadth, moulded: 46.3 m (151 ft)
- Depth, Maximum (Fresh) ballasted: 25.6 m (84 ft)
- Draught, scantling: 14.6 m (48.0 ft)
- Speed: 11.0 kn (12.4 mph)
- Power installed: 12.3 MW (16,600 HP)

**Installed equipment**

- **Lifting Winches**
  - The lifting and compensation system is the key to Castor Drilling Solution’s innovative approach to the drilling performance.
  - It enables to handle up to 1,650 t/m lifting capacity.

- **Setback**
  - The setback is dedicated to store in a secured and dry way all deck cranes and other equipment.

- **Central System and Subsea Equipment**
  - The design is dedicated to storage, handling and inspection of a few BOPs, wellheads, subsea equipment.
  - The vessel is equipped with a 10.5 MW barge as an auxiliary power supply.

**Hull**

- Draught amidships: 12.0 m (39.4 ft)
- Draught transverse amidships: 11.5 m (37.7 ft)
- Beam: 48.3 m (158.4 ft)
- Length overall: 251.8 m (824.8 ft)

**Drilling System**

- **2 x 5” dev. riser line**
  - With 2 x 1” deviation lines infield.
  - With 4 x 2” deviation lines out of field.

**Materials Handling System**

- **5 x HP Mud Pumps 2,200 hp each, 7,500 psi.**
  - 1 set of LP mud guns, 2 x Shear units, 1 set of Agitators, 1 set of Mixing/Transfer pumps

- **Larger Deck Areas**
  - Available deck areas of at least 4,790 m² (51,560 ft²)

**Materials Handling System**

- **5 x HP Mud Pumps 2,200 hp each, 7,500 psi.**
  - 1 set of LP mud guns, 2 x Shear units, 1 set of Agitators, 1 set of Mixing/Transfer pumps

**Riser System**

- **5 x 1” BOPs**
  - With 5 x 1” BOP units.

**Operating System**

- **2 x 5.3 MN m²**
  - 2 x 5.3 MN m², 5.3 MN m².

**Central System and Subsea Equipment**

- **2 x 5.3 MN m²**
  - 2 x 5.3 MN m², 5.3 MN m².

**Other systems**

- **2 x 800 m³ fuel tanks**
  - 2 x 800 m³ fuel tanks.

- **2 x 13,000 m³ fresh water tanks**
  - 2 x 13,000 m³ fresh water tanks.

- **2 x 5,000 m³ dry bulk tanks**
  - 2 x 5,000 m³ dry bulk tanks.

**Other systems**

- **2 x 800 m³ fuel tanks**
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**Other systems**

- **2 x 5,000 m³ dry bulk tanks**
  - 2 x 5,000 m³ dry bulk tanks.
The innovative Caspian Drilling Solution’s tower and lifting system represent a REAL EVOLUTION STEP in the OFFSHORE DRILLING WORLD, enabling to increase the speed of the drilling activities and the drilling performance. Furthermore the smart integration achieved with the vessel improves the ergonomics and the safety of the operations.

**MAIN ADVANTAGES**

Maximizing the risk of hazardous falling objects due to tower design. Maintenance-friendly design: all main components are located outside, at all-drill level.

Wide open drillfloor layout ensures full access to drillfloor using rig cranes and provides excellent overview over all operations. Lowered GCG increases the stability of the vessel. Proven structural tower design from offshore wind industry. Balanced Lifting ensures optimal load distribution over the support tower.

**INNOVATIVE CYLINDRICAL DRILLING**

Tower designed for a max lifting capacity of 1,650 sh.ton. Multiple lifting wires provide redundancy and safety. Low center of gravity and large radius ensures increase the service life time.

The compensating system is located under the winch at drillfloor/deck level with a capacity up to 6,000 lbf.

High redundancy and feasibility of the variable nature of Compensation Cylinders reduces the risk associated with failure of the main compensator, and allows the system to be reprogrammed for the drilling condition.

The retractable system allows the maintenance of all tower components with a deck crane. It enables reduced or absent downtime.

**EFFICIENCY**

- **1. FASTER DRILLING OPERATION**
  - Higher tripping speed, Multiple lifting wires provide improved redundancy and safety
- **2. COMPENSATION SYSTEM**
  - Enhanced compensation capacity up to 1,000 sh.ton
  - High redundancy and flexible design
- **3. AUXILIARY STANDBUILDING TOWER**
  - Additional off line standbuilding tower inside the setback area, directly connected to the pipe deck
- **4. AUTOMATIC RISER REDUCTION SYSTEM**
  - It increases the speed and the safety of riser joints handling thanks to a fully automated and fully redundant system
- **5. INCREASED TRANSPORT SPEED**
  - Optimized hull forms increase the transport speed to 14 knots (on all propulsions thrusters only)

**SAFETY**

- **9. WIDE OPEN DRILLFLOOR**
  - Up to 50% of additional area
  - Increased visibility
  - Fully accessible with deck cranes
- **10. INSIDE ESCAPE CORRIDORS**
  - Straight and clean internal escape ways improve the personal traffic
- **11. MONOLITHIC TOWER DESIGN**
  - Minimization of risk for hazardous falling objects due to the higher safety (no bolts) Reduced maintenance costs

**OPERABILITY**

- **12. ADDITIONAL HELIPAD AREA**
  - 3 ADDITIONAL HELIPAD AREA
- **13. TWO 20x20 bop**
  - Designed to handle up to 2 bop’s (20,000 psig) 7 cavities
- **14. ENHANCED MATERIAL HANDLING**
  - Designed for improved material handling with forklifts both on internal and external decks including the drillfloor
- **15. LARGE ACCOMMODATION AREA**
  - Crew-friendly environment for 235 persons. All cabins are provided with private toilet and lower beds.

**MAINTAINABILITY**

- **16. RETRACTABLE THRUSTERS**
  - Azimuthable retractable thrusters. This innovative system allows the maintenance without drydock needs
- **17. TELESCOPIC TOWERS**
  - The retractable system enables the maintenance of all tower components with the deck cranes
Increased speed of drilling activities
- Improved vehicle transit speed
- Reduced maintenance costs

**SAFER WORKING ENVIRONMENT**
Wide open drillfloor and cylindrical closed towers grant safer operations

**INNOVATIVE CYLINDRICAL DRILLING**
The innovative Castor Drilling Solutions' tower and lifting system represents a REAL EVOLUTION STEP IN THE OFFSHORE DRILLING WORLD, enabling to increase the speed of the drilling activities and the drilling performance. Furthermore the smart integration achieved with the vessel improves the ergonomics and the safety of the operations.

**MAIN ADVANTAGES**
- Minimizing the risk of hazardous falling objects due to tower design.
- Maintenance-friendly design: all man components are located outside, at all-drill level.
- Wide open drillfloor layout ensures full access to drillfloor using rig cranes and provides proud overview over all operations.
- Lowered CG increases the stability of the vessel.
- Proven structural tower design from offshore wind industry.
- Balanced lifting ensures optimal load distribution over the support tower.

The compensating system allows the movement of all tower components with a deck crane. It enables reduced or absent noise at drillfloor and extended the equipment life.

**EFFICIENCY**
- **1. FASTER DRILLING OPERATION**
  - Higher tripping speed: varying from +20%75% depending on the lifting level.
  - The compensating system is located under the winch at the drillfloor/erector deck level with a capacity up to 4,000 sh.tons.
  - High redundancy and flexibility achievable.
- **2. COMPENSATION SYSTEM**
  - The compensating system is capable of handling any lifting requirements.
  - The system supports all types of lifting, including riser, heavy and Casing inside the towers.
- **3. AUXILIARY STANDBUILDING TOWER**
  - Additional lift standingbuilding tower inside the setback area, directly connected to the pipe deck
- **4. AUTOMATIC Riser REDUCTION SYSTEM**
  - It increases the speed and the safety of riser joints handling thanks to a fully automated and fully redundant system.
- **5. INCREASED TRANSPORT SPEED**
  - Optimized hull forms increase the speed transit to 14 knots (based on all propulsions thrusters only).

**SAFETY**
- **9. WIDE OPEN DRILLFLOOR**
  - Up to 50% of additional area
  - Increased visibility
  - Fully accessible with deck cranes
- **10. INSIDE ESCAPE CORRIDORS**
  - Straight and clean internal escape ways improve the personal traffic
- **11. MONOLITHIC TOWER DESIGN**
  - Minimization of risk for hazardous falling objects due to tower simplicity (no bolts)
  - Reduced maintenance costs

**PERFORMANCE**
- **6. ENHANCED TOWER LIFTING CAPACITY**
  - Lifting capacity up to 1,650 sh.ton
- **7. SETBACK INSIDE THE VESSEL**
  - Capacity of 2,000 t (2,200 sh.ton)
  - **8. LARGER DECK AREAS**
  - Available deck areas of abt. 4,790 m² (51,660 ft²)

**CLASS NOTATION:**
The vessel complies with the latest international rules and regulation and the concept design has been "Approved in Principle" by ABS.

**INTEGRITY**
- **12. ADDITIONAL HELD AREA**
  - It increases the safety for the helicopter operations
- **13. TWO 20kpsi BOPs**
  - Designed to handle up to 2 BOPs 20,000psi, 7 cavities
- **14. ENHANCED MATERIAL HANDLING**
  - Designed for an improved material handling with forklifts both on internal and external decks including the drillfloor
- **15. LARGE ACCOMMODATION AREA**
  - Crave-friendly environment for 250 persons
  - All cabins are provided with private toilet and lower beds.

**DECK CRANES**
- **1 x Horizontal catwalk for handling risers from the riser storage area to the main center, 50 t.
  - 1 x Big Bag unit
  - 1 x Overhead crane with a lifting capacity of 150 t.
  - 1 x Moon Pool trolley with a capacity of abt. 150 t. The trolley has a hang off capacity of abt. 400 t for casing hang off operation.
  - **1 x Big Bag unit
  - 1 x Horizontal feeding machine for handling casing and tubulars from aft pipe deck to well center, 15 t.
  - 1 x Big Bag unit
  - 1 x Big Bag unit

**WINCHES**
- **3 x 500 ccm pumps, 2,700 L/min (710 gal/min), 320 bar, 1.4 MW, for AHC**
- **1 x HPU for ringline, 794 KW  2,300 L/min (600 gal/min), 207 bar**

**DECK CRANES**
- **1 x Big Bag unit
  - 1 x Horizontal catwalk for handling risers from the riser storage area to the main center, 50 t.
  - 1 x Big Bag unit
  - 1 x Horizontal feeding machine for handling casing and tubulars from aft pipe deck to well center, 15 t.
  - 1 x Big Bag unit

**MAINTAINABILITY**
- **16. RETRACTABLE THRUSTERS**
  - Asymmetrical retractable thrusters. This innovative system allows the maintenance without drydock needs
- **17. TELESCOPIC TOWERS**
  - The retractable system enables the maintenance of all tower components with the deck cranes.
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By means of high integrated systems, we can offer modular customized turnkey offshore vessels.

Every day we have to face a new challenge and thanks to our constant technological innovation and the use of cutting-edge technology, we achieve an important milestone: operating in a safe, performing and comfortable way.

A SEA CHANGE IN THE DRILLING MARKET

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RESEARCH, EXPERIENCE
AND CUTTING-EDGE TECHNOLOGY.

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THE R-EVOLUTION IN UDW DRILLING AND BEYOND

NOW YOU CAN GET MORE
The innovative Castor Drilling Solution's tower and lifting system represent a REAL EVOLUTION STEP IN THE OFFSHORE DRILLING WORLD, enabling to increase the speed of the drilling activities and the lifting performances. Furthermore the smart integration achieved with the vessel improves the ergonomics and the safety of the operations.

The complicating system is located under the knocking of the upper deck, or with a capacity up to 1000 horse-

High redundancy and flexibility to a variable number of Compensation Cylinders. The system ensures the compensation characteristic performance at any drilling or down hole-operation with lower moving parts and minimum friction losses. Easily removed and interchanged. Endless combination.

The system enables the maintenance of the drilling system, and a rapid replacement in case of emergency.

The main components of the全新 drilling system, the hydraulic system, the drilling system, and the material handling system, are also highlighted.

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