

Island Innovator

Semi-submersible rig for drilling, well intervention, and coil tubing operations.



A drilling contractor for the future

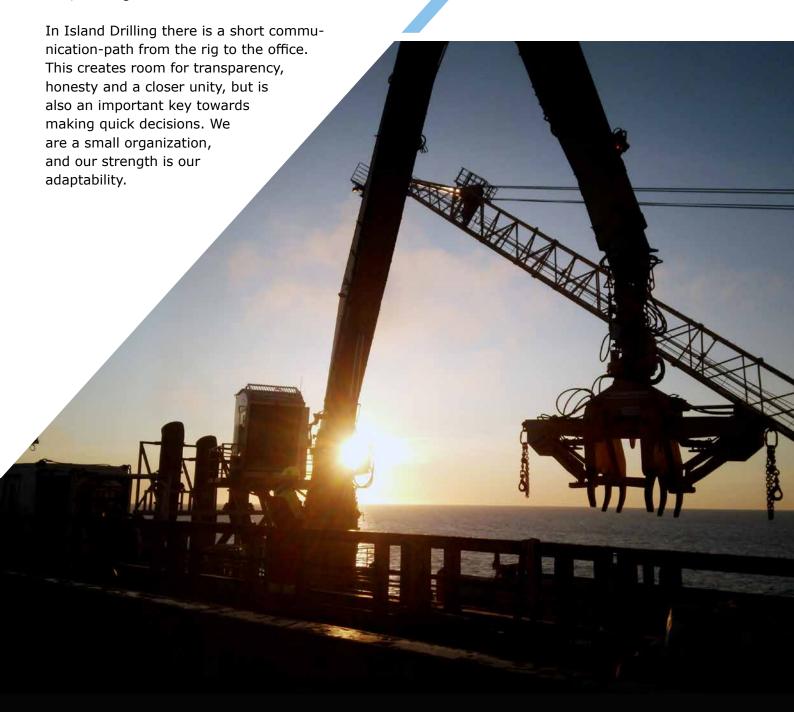
Island Drilling was established in 2006 by industry veterans and Island Offshore, the leading global player in well intervention, to build and own special purpose semi-submersible rigs for heavy well intervention operations, including coil tubing operations, through tubing rotary drilling (TTRD).

It was intended to complement the fleet of light well intervention vessels. The design, however, was expanded to encompass full drilling capability in Harsh Environment service.

The company took delivery of the rig from China's Cosco Zhoushan Shipyard in 2012. After successfully drilling wells since 2013, the vessel has proved its ability to operate in harsh environment covering the North Sea, Norwegian Sea and the Barents Sea.



Film_1



The rig`s potential:

Island innovator is a 6th generation rig for drilling and heavy well intervention on subsea templates.

The unique operational advantage of the compensated NOV 165-metric ton AHC crane, in combination with the rig's DP capability, makes a positive difference compared to many other units. Subsea operations, such as template installation and preparation spud of new well / top-hole drilling and P&A operations, can be done simultaneously with mooring activities.





Drilling performance

Island Innovator has been engaged in Harsh Environment drilling operations since 2013, and maintains an excellent performance record. Regularity in excess of 99 % available rig for customer. Enhanced design with improved heave characteristics for reduced waiting on weather. Island Innovator is built to operate in the Barents Sea. The rig has achieved good results in exploration, with several good drill stem tests.

DP/MARINE:

The rig has extensive experience with spudding on DP for station keeping while connecting to pre-laid anchors, before continuing in Posmoor ATA mode. The rig has also performed P&A of top-hole sections on DP. This capability reduces time spent on anchor operations with up to 2 days.

ROV:

The ROV facilities, with integrated control room for ROV pilots and a well sized ROV hangar is functioning in an effective manner. The launching is set up by using a cursor system, placed close to the rig centre.

Constant tension wires to pontoon enables the ROV to be launched up to 4 m significant wave height. Launching and recovery above 4 m significant is pending wave and wind direction.



Features and capabilities

Island Innovator is equipped with a NOV HP ram-rig type cylinder rig with hydraulic active heave compensation and separate pipe racking tower. It has NOV BOP handling system and a five ram BOP stack from Cameron. The rig is purposely built for production drilling on subsea templates with large designated area for storage, and a skidding system to bring XMTs in position for the moonpool elevator.

The improved rig hull design increases the variable deck load capacity significantly. In combination with a lowered setback location design, this allows for transiting to site with fully loaded setback, which in hand improves rig efficiency.







Rig specifications

The Island Innovator is a 6th generation, GM4000 WI Enhanced design, 2012 built semi-submersible drilling, well intervention and completion unit. The rig is currently equipped to operate in water depths from 60m up to 600m (drilling), and 1200m (well intervention and completion riser).

Island Innovator is designed for the Norwegian Continental Shelf and for worldwide harsh environments, and upgraded according to OTG 013 and 014 requirements.

Station keeping is maintained by an 8-line mooring system or by dynamic position maintained by 6 fixed pitch, variable speed thrusters (DP3)

MAIN DIMENSIONS

Overall length 106,8 m Overall width 75,8 m

Helideck (D value) Sikorsky S 61/

S 92/22,2 m

Moonpool dimensions 22,1 x 7,2 m

DISPLACEMENT

Operating displacement 38 853 mT Survival displacement 36 976 mT Transit displacement 28 649 mT

STATION KEEPING

DP system Kongsberg Maritime SDP-22 +

SDP-12 back up.

Thrusters 6 x Wärtsila LIPS type

FS3500-571/NU

Thruster

motors 6 x 3800 kW Siemens AC

Mooring 4 double Rolls Royce winches

SL400-2T

ACCOMMODATION

110 single bed cabins

STORAGE CAPACITIES

Drill water 2038 m³

Liquid mud 726 m³+195 m³

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Bulk Bentonite / Barite 240 m³
Bulk cement 240 m³
Base oil 980 m³

Brine 195 m³+195 m³

Variable deck load 4 800 mT
Variable deck load – transit 3 800 mT
Transit speed 8 knots

MACHINERY

Engines 6 x Wärsila W 12V32, 5760 kW ea.,

720 RPM

Generators 6 x Siemens 1DK4536-8ALO5-2,

4840 kW ea. 6,5 kV 60 Hz

Emergency

power 1190 kW Mitsubishi S12R-MPTA

– 1500 kVA Newage Stamford

PM734C

Power

distribution 690V essential, 440V, 230V

SAFETY EQUIPMENT

Free fall

lifeboats 4 x 55 persons

Mob boats 2 x Norsafe Mako 655

Liferafts 8 x 35 persons



Specifications Drilling / Subsea

BOP

BOP Stack Cameron 18 3/4", 15K EVO Stack
Annular Preventer 2 ea. Cameron DL, 18 3/4" 10K

Shear Rams 2 ea. Extended double Ram (Shear seal & CSG Shear)

Pipe Rams 3 ea. Fixed & variable Rams

BOP Control System Cameron EVO, Subsea Pods for all functions

RISER

GE Vetco MR-6E 21" with KT ring adapter – Riser System

50ft joints - 16,6m

2 x 3" ID Choke lines, 4" boost line, 2 x 3" ID hydraulic return lines

650m riser (70% with buoyancy)

DERRICK

Hook Load Capacity 650 ton (590mT)

Base 14,8m x 6,8m (45 x 21 ft)

Height 55m (165 ft) operational working height 36m Racking Capacity 192 std drillpipe (5760m) + 16 std drillcollar

Hoisting system NOV Cylinder Rig 4600 HP – hydraulic active heave compensated

Top Drive NOV HPS 750-E-AC-SG – 680 T (590 mT) 1000 hp.

Max cont. Torque 54 500 ft. Lbs at 0-94 RPM. Max 188 RPM

Rotary National VBJ-RST, 60,5" opening. 1000 mT

Traveling / crown block NOV sheave cluster – 590 mT

Cyber Base Drillers Control NOV cabin system with 2 operating stations

PIPE HANDLING SYSTEM

Pipe Racker NOV Hydra racker HR-III

Iron roughneck NOV MTP-200 with mud bucket 200kNm break out

torque Range 3 ½"- 9 ¾"

Catwalk machine NOV PR25-50LS with tail in arm. Fully equipped for

tubular and riser handling

Drill floor manipulator arm NOV DFMA-P-6750. 3 1/2" - 9 5/8" guide head and

48" riser guide head

Pipe handler crane NOV Pipe deck knuckle boom crane. Capacity: 12 mT

MUD TREATMENT AND SUPPLY

Mud pumps 3 x NOV HP-P-220, 2229 hp, 2044 lpm (6" liner)

/7500 psi each

Shale shakers 5 x VSM 300 Brandt shakers

Degasser M-I Swaco CD 1400 degasser

Mud mixing NOV fully automated mixing system

Sack slitting and big bag slitting

machine

QHSE

Island Drilling aims to be an attractive and modern company. We believe in improving the attitudes of our employees on an individual level so everyone feel ownership to, and is committed to, QHSE matters. This way, the organization is systematically steered towards an innovative and robust safety culture.

Island Drilling always seeks for improvement with regards to QHSE-matters, and maintains high focus in reduction of our ecological foot-print. We also make all our operation performances safe and effective to reduce the risk for our employees and customers.

An extensive energy management plan has been established, where the top priority is to work systematically on reducing the company's carbon footprint. We are also continuously improving chemical handling, and our main QHSE focus is Energy Management and Human Factor Awareness.

Island Innovator has high standards with regards to working environment, welfare for the employees, and high safety culture onboard. We believe that satisfied employees are focused employees, and focused employees have a lower

OF SPECIAL ADVANTAGE FOR INNOVATOR IS:

- Well-functioning welfare club
- Indoor shooting range (simulator)
- Internet café
- The most well-functioning hospital in the business, prepared for video consultations from specialist onshore
- High focus on good and healthy food
- Good training facilities



COMPANY HEAD QUARTERS

Situated in Bergen within close distance from the airport

Island Drilling Company AS

Sandslimarka 61-63 N-5254 Sandsli Norway

Contact Island Drilling: E-mail: post@islanddrilling.no Phone: +47 55 20 30 40





www.islanddrilling.no

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SPECIAL THANKS TO:

We would like to use this opportunity to thank all our suppliers and partners who contributed to this brochure.



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- Reduces cost of maintenance
- Reduces need of Chicksan Hard pipe





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