



SEMI-SUBMERSIBLE RIG FOR DRILLING OPERATIONS



www.islanddrilling.no

General discription

The **ISLAND INNOVATOR** is a 6th generation, 2012 built semi-submersible drilling, well intervention & completion-unit designed to operate in water depths up to 1200 meter. The unit is designed for NCS, Norwegian Continental Shelf and for world wide harsh environments. Station keeping is maintained by an 8 line mooring system or by dynamic position mode maintained by 6 fixed pitch, variable speed thrusters (DP3).

- Hull GM4000-WI Enhanced design built at Cosco (Zhoushan)Shipyard
- Drilling structure and mudmodule Delivered by National Oilwell Varco/ Nymo,Norway

- DNV +1A1 Column Stabilized Drilling Unit (N)
- DRILL (N)
- DYNPOS-AUTRO
- POSMOOR-ATA
- CRANE(N)
- HELDK-SH

Main dimensions

- Overall length 106,8m
- Overall width 75,8m
- Main deck length 81,5m
- Main deck width 65m
- Helideck(diameter) 22,20m
- Moon pool dimensions 22,10 m x 7,2m

Draft

- Operating draft 17,75m
- Survival draft 15,75m
- Transit draft 9,50m

Displacement

- Operating displacement 38,953mT
- Survival displacement 36,976mT
- Transit displacement 28,649mT

Storage capacities

- Ballast water 13210 m3
- Fuel
 - Pontoons 3208 m3
 - Surface 260 m3
- Drilling water 2038 m3
- Potable water 600 m3
- Active liquid mud (surface) 460 m3
- Reserve liquid mud (column) 400 m3
- Bulk Bentonite/Barite 240 m3
- Bulk cement 240 m3
- Base oil storage 814 m3
- Brine storage 1526 m3

Variable load

4800 mT

Variable load

3800 mT

Transit speed

8 knots

Rated water depth 70 to 1200 m. currently equipped for 650 m

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

Machinery

- Engines 6 x Wärtsila W 12V32, 5760 kW ea., 720 RPM
- Generators 6 x Siemens 1DK4536-8AL05-2, 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

Accommodation

110 single bed cabins

Safety equipment

- Lifeboats 4 x 55 persons. Free fall lifeboats
- Mob boats 2 x Norsafe Mako 655
- Liferrafts 8 x 35 persons



Franklin Human Resources AS er et bemanningsselskap etablert i 2010. Vi rekrutterer og leier ut personell til borebedrifter.

Så langt har vi hatt oppdrag på norsk, britisk og dansk sektor for 8 av borebedriftene.

Mange av våre ansatte og vikarer har etter utleie fått fast ansettelse i et av boreselskapene, det er et kvalitetsstempel.

Franklin HR har kontor i Stavanger sentrum,
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Nærmere informasjon om selskapet finner du på vår hjemmeside www.franklinbemanning.no

 **FRANKLIN HR**
Human Resources

Drilling systems

Derrick

- Hook load capacity 650 ton (590 mT)
- Base 45 ft x 21 ft (14,8 m x 6,8 m)
- Height (internal) 165 ft. (55 m) operational working height (35,5m)
- Cladding 0-14 m. 4,5 m at fingerbord level
- Racking capacity 5760 m, 192 std 5 7/8" DP + 16 std 9 1/2" DC

Drawworks

NOV Cylinder Rig 4600 HP, hydraulic active heave compensated

Topdrive

NOV HPS 750-E-AC-SG. 680 ton (590 mT).1000 hp.
Max cont. torque: 54500 ft.lbs at 0-94 RPM. Max 188 RPM.
Retractable NOV top drive yoke

Rotary

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

Traveling/ crown block

NOV sheave cluster – 590 mT

Cyber base Drillers control

NOV cabin system with 2 operating stations

Pipehandling system

- Pipe racker NOV hydra racker HR-III
- Iron roughneck NOV MPT-200 with mud bucket. 200 KNm break out torque.
Range: 3 1/2" – 9 3/4"
- 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

Crane

- Platform crane 2 ea NOV AHC (Active Heave Compensated) knuckle boom Crane C4475S. Capacity:165mT
NOV Lattice Crane, T6179 Capacity: 80mT
NOV Pipe deck Knuckle boom Crane Capacity: 12mT
- Pipe handler Crane

Mud treatment and supply

- Mud pumps 3 x NOV HP-P-220, 2229 hp, 4257 l/min, 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 machine and big bag slitting machine





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RTC Offshore is NS-EN ISO 9001:2015-certified and Achilles JQS-qualified.

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Sub sea equipment

BOP/ X-mas tree handling

- 2 x 60 mT overhead crane.
- 300 mT BOP elevator system/ main skid
- 300 mT BOP skid.
- 300 mT LMRP skid.

STB of Moonpool

Designed to carry the BOP from parked position to the BOP elevator/ main skid

Designed to carry the LMRP/ X-mas tree from parked position to the BOP elevator/ main skid

- 120 mT X-mas tree cantilever transport system
- 2 x work winches (1 x 5mT) 1x 10mT) 1 cherry picker in moon pool

BOP

- BOP stack
- Annular preventer
- Shear rams
- Pipe rams
- BOP control system

Cameron .18 3/4", 15K EVO stack

2 ea. Cameron DL, 18 3/4" 10K

2 ea. Extended double ram (shear seal & CSG shear)

3 ea. fixed & variable rams

Cameron EVO, Sub Sea Pods for all functions.

Riser

- GE Vetco MR-6E 21" with KT ring adapter - Riser system
- 50 ft joints – 16.6 m
- 2 x 3" ID choke lines, 4" boost line, 2 x 2,3" ID hydraulic return lines
- 600 m riser (70% with buoyancy)



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