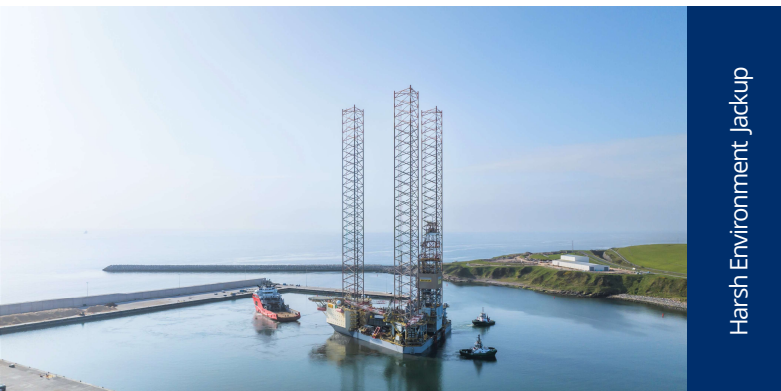


Noble Innovator



Harsh Environment Jackup

General description

The Noble Innovator ultra-harsh environment jack-up rig is designed for year-round operation in the North Sea. It benefits from a large drilling envelope of 100ft by 65ft. The Noble Innovator is designed and built to optimize drilling operations in all areas and can handle wellheads and Xmas trees offline, through the moon pool or Texas deck. Automated pipe handling equipment with offline capabilities enables the rig to build casing stands and drill pipe while drilling. Large deck space minimizes crane lifts, as a forklift can be used instead.

General specifications

Design	GustoMSC CJ70-XL
Year built/upgraded	2003
Year entered service	2003
Builder	HHI
Flag	Marshall Islands
Classification	DNV, ⚙️ 1A1 Self Elevating Drilling Unit, HELDK, Crane-offshore, ⓘ
MODU Code	1989
Overall Length	291 ft x 345 ft
Operating Transit	26.2 ft
Depth	39.4 ft
Air Gap	50 m (164 ft), drilling
Variable deck load	13,000 t
Water depth	492 ft
Drilling depth	30,000 ft
Transit Speed	4 knots (towed)
Accommodation	120 (4 x lifeboat conf), 134 (6 x lifeboat conf)
Hook load	2MM lbs
Setback Capacity	2,281 kips

Cranes

Main cranes	2 x 65 t Kenz EHC 100/3500 OS , 65t @ 27 m 1 x 50 t Kenz
X-Mas Tree / BOP	1 x 40 t NOV Trolley 1 x 150 t NOV Trolley

Applications

NORMS	Real Time Monitoring	Ops Performance Tool	H56	On The Go
			RigFlow/Rig Pulse	

These specifications are intended for general reference purposes only. Actual equipment may vary upon the contract situation and customer needs.

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Storage capacity

Liquid mud	10,485 bbls
Base oil	3,201 bbls
Brine	4,761 bbls
Heavy Brine Accepted	Yes
Bulk cement	7,062 cuft
Bulk bentonite	4,414 cuft
Bulk barite	4,414 cuft
Sacks	5,000
Fuel	10,653 bbls
Drill water	20,875 bbls
Potable water	3,195 bbls

Drilling equipment

Derrick	MIL 46 ft x 52 ft x 187 ft, 2,000 kips
Drawworks	1 x Varco AHS 10Q , 3,430 kW continuous
Rotary Table	1 x NOV RST 495
Top Drive	1x Varco TDS 8SA, 1,500 kips, 63,000 lbsft (cont)
Tubular Handling	1 x Catwalk Shuttle 1 x Gantry Crane
Fingerboard capacity	130 STD 5 7/8" 106 STD 6 5/8" 21 STD DC 134 STD Csg
Mud Pumps	3 x Wirth TPK 1,000 hp, 7,500 psi
Solids Control System	3 x NOV VSM 300 3 x MI Swaco MD-3 LCM Recovery
Iron Roughneck	2 x NOV AR-4 100,000 ftlbs
Powered mousehole	Yes

Sub sea equipment

Diverter	1 x Drillquip KFDJ 500 – 30" ID – 3 x 14" OB lines
BOP stack	1 x Shaffer NXT 24 – 15k
Annular	1 x Shaffer 10k
C&K manifold	WOM 15K

Power generation

Main power	4 x 2,625 kW , MAN9L 27/38 720 rpm
Electrical power	4 x 2,625 kW, HHI, 6.6kV
Emergency power	1x 1,806 kW CATERPILLAR HFJ5 638-44E
Power from shore	No
SCR	BLUNOX installed, not commissioned
Battery Unit	No

Noble Innovator



Noble Innovator Rig Crew

Jacking specifications

Leg Spacing	229.7 ft x 186 ft
# of Legs	3
Leg Length	675 ft
Leg Spacing C-T-C	70 m (traverse), 66.6 m (long)
Jacking System	National 700
Jacking Speed	0.5 m/min
Spud Can Diameter	19.7 m
Spud Can Height	6 m
Spud Can footing Area	380 m2 (fitted with 2 m skirt)
Bottom Jets	6 x
Fill / Dump Preload	8 hrs (fill) – 1 hrs (dump) – depending on site

Other Systems

MPD	Level 1 ready
Burner booms	No
Dual activity	Casing and Standbuilding
Automation	Cyberbase
Red Zone Management	Salunda HaloGuard, personnel detection enter in restricting area
On the Go	Yes
H56 Enabled	Rig flow & Rig Pulse
Data Infrastructure	Real time monitoring, rig sense
Other	Salunda Latch Hawk, fingerboard finger position safety system

Real Time Data Provision

Drilling	VMS	Energy Eff

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Unique Capabilities and Enhancements

BLUNOX	Reducing NOx. Complies with the strictest emission legislation, enabling avoidance of environmental NOx taxes/fees whilst reducing health risks, acid rain and greenhouse gases
Pipe Handling	The automated pipe handling system can build and rack to 13 3/4" casing, while keeping personnel out of harm's way. Drill pipe R2 and R3 are handled offline, to optimize operations
Texas Deck	50MT SWL vertical load handling below cantilever enables the rig to handle heavy subsea trees and wellheads

Cantilever specifications

Cantilever Envelope	100 ft x 65.6 ft
Cantilever Skidding Syst	X-Y
Cantilever load	1,270 t (combined)
Hook load	907 t
Rotary load	1000 t
Setback load	1,035 t (operational) 475 t (transit)

