

Noble Invincible



Harsh Environment Jackup

General description

The Noble Invincible 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 Invincible 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-XLE
Year built/upgraded	2016
Year entered service	2016
Builder	DMSE Korea
Flag	Majuro
Classification	DNV, 1A1 Self Elevating Drilling Unit(N), Battery(Safety), Drill(N), HELDK(S,H,N), Crane-offshore(N), E
MODU Code	2009
Overall Length	291 ft x 345 ft
Operating Transit	26.2 ft
Depth	39.4 ft
Air Gap	24 m
Variable deck load	12,000 t (depending on SA)
Water depth	492 ft
Drilling depth	30,000 ft
Transit Speed	4 kn (towed)
Accommodation	179
Hook load	2MM lbs
Setback Capacity	2,270 kips

Cranes

Main cranes	3 x 100 t Molde OC3500LCE, 60 t @ 52.5 ft
X-Mas Tree / BOP	1 x 40 t NOV Trolley 1 x 150 t NOV Trolley

Applications

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Storage capacity

Liquid mud	10,173 bbls
Base oil	3,261 bbls
Brine	4,982 bbls
Heavy Brine Accepted	yes
Bulk cement	8,899 cuft
Bulk bentonite	396 cuft
Bulk barite	440 cuft
Sacks	5,000
Fuel	10,653 bbls
Drill water	21,448 bbls
Potable water	2,245 bbls

Drilling equipment

Derrick	SSBN 1070 46 ft x 52 ft x 210 ft, 2,000 kips
Drawworks	1 x NOV SSGD-1070-50-82-10,5 , 4,288 kW continuous
Rotary Table	1 x NOV RST 495
Top Drive	1x NOV HPS-1000-AC, 92,120 ftlbs continuous
Tubular Handling	2 x NOV Hydraracker HR IV 1 x Catwalk Shuttle 1 x Gantry Crane
Fingerboard capacity	72 STD 3.5" 128 STD 5 7/8" 60 STD 6 5/8" 10 STD DC 134 STD Csg
Mud Pumps	4 x NOV 14-P-220, 2,200 hp
Solids Control System	5 x NOV VSM Multisizer
Iron Roughneck	2 x NOV KT 14,000
Powered mousehole	Yes

Sub sea equipment

Diverter	1 x Drillquip KFDJ 500 – 30" ID
BOP stack	1 x Shaffer NXT 24 – 5K-- also available with 18 ¾ - 15K
C&K manifold	15K

Power generation

Main power	4 x 2,925 kW , Wartsila, 900 rpm
Electrical power	4 x 2,284kW, AvK DIG 150, 6.6kV
Emergency power	Each main engine functions as emergency generator
Power from shore	Yes, 2 x 11kV, 1250A each
SCR	Yes, Blunox Nox
Battery Unit	2 x Siemens Bluevault, 475 kWh, 930VDC

NORMS

Real Time Monitoring

Ops Performance

Energy Efficiency

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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Noble Invincible Rig Crew

Jacking specifications

Leg Spacing	229.7 ft x 218.5 ft
# of Legs	3
Leg Length	675 ft
Leg Spacing C-T-C	70 m (traverse), 66.6 m (long)
Jacking System	NOV NIV-VLM C170
Jacking Speed	0.45 m/min
Spud Can Diameter	21.94 m
Spud Can Height	7.01 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)

Other Systems

MPD	No
Burner booms	Yes
Dual Well Centers	Offline standbuilding
Automation	Cyberbase, NOVOS, MMC, Softspeed, PIMS, DORS
Red Zone Management	No
On the Go	Yes
H56 Enabled	Yes
Data Infrastructure	Real time monitoring
Other	N/A

Real Time Data Provision Options

Drilling	VMS	NOVOS	Energy Eff

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Unique Capabilities and Enhancements

Water depth capability	large water depth capability (492 ft) for harsh environment
Variable Deck Load	Large variable load capability (up to 12,000 t depending on SA) compared to other designs
Deck Area	jack-up with the largest deck and storage space compared to other jackup designs
Skidding Envelope	Very large cantilever skidding envelope with 110 ft cantilever reach
Mud System	4 x NOV 14-P-220, 2,200 hp
Cranage	Unique crane under cantilever, for versatile lifting on host platform Chela-530 crane 22 t 16.8 m
POB	High PoB capacity of 180 persons

Cantilever specifications

Cantilever Envelope	110 ft x 73 ft
Cantilever Skidding Syst	X-y
Cantilever load	1,750 t (combined)
Hook load	910 t
Rotary load	910 t
Setback load	1,035 t (operational) 475 t (transit)
Texas Deck	150 t capacity

