



Constellation.

Laguna Star

High-Performance
Standardized Fleet



Laguna Star

A sixth-generation drillship built at Samsung Heavy Industries shipyard in South Korea. It is designed with the latest technology for drillships suitable for drilling and completion operations with high performance up to 12.000m (39.370ft) with a hook load capacity of 907t (2.000.000lbs).

Laguna Star has a double tower for offline and simultaneous activities. BOP's control systems are prepared for 3.000m (10.000ft) of water depth operation.

HIGHLIGHTS

TYPE | Drillship Dynamic Positioning

FLAG | Marshall Islands

YEAR BUILT | Upgraded 2011

DESIGN | Samsung 90K Drillship

DP CLASS | DPS-3

DPS 3
DP Class

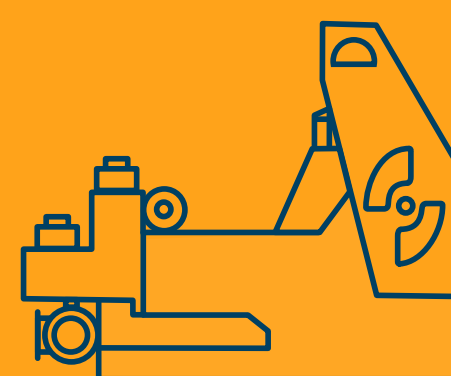
3.000m
(10.000ft)

Maximum
Water Depth



Dual Derrick
NOV 64m (210ft)

Main: 2.000.000lbs
Aux.: 700.000lbs
Gross Nominal Capacity



4x NOV
14-P-220
Triplex

Mud Pumps
7.500psi capacity



1x NOV
18^{3/4} BOP

15.000psi
working pressure

Top Drive

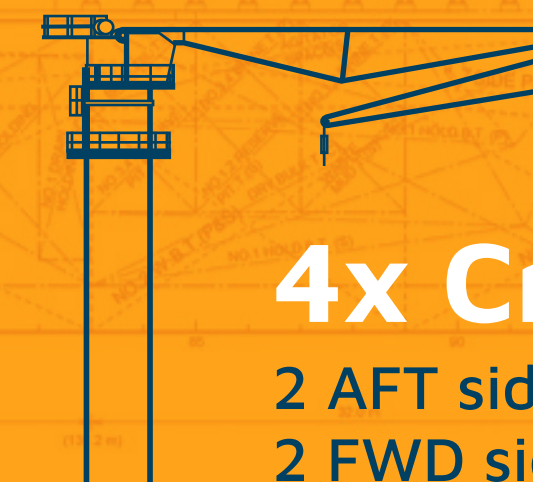
NOV HPS-1000
907t capacity

20.000t

Maximum
Variable
Deck Load



MPD
Equipped



4x Cranes

2 AFT side – 85t
2 FWD side – 85t



Constellation.



GENERAL DESCRIPTION

Operation Draft	12.0 m
Survival Draft	12.0 m
Transit Draft – Field Move	12.0 m
Transit Draft – Open Sea	9.0 m
Variable Deck Load Drilling	20,000 ton
Variable Deck Load Transit (Towing/Field)	20,000 (16,500) ton
Variable Deck Load Survival	20,000 ton
Transit Speed	11.5 knots
Maximum Water Depth	3,000 m
Minimum Water Depth	457 m
Maximum Drilling Depth	12,192 m
Accommodation	180 persons

DRILLING EQUIPMENT

Derrick	NOV 210' (Dual)
Hookload Capacity	Main: 907 ton / Aux: 318 ton
Drawworks	Main: NOV SSSGD-1000-6000 / Aux.: NOV One Layer Winch
Drilling Line	Main: 2 in / Aux.: 11/2 in
Compensator Type	Main: NOV CMC-E
Compensator Capacity	Main: 1,500,000 lb
Rotary Table	Main: NOV RST605 / Aux.: NOV RST605
Rotary Table Opening	Main: 60.5 in / Aux.: 60.5 in
Rotary Table Static Load Capacity	Main: 907 ton / Aux.: 907 (318) ton
Top Drive	Main: NOV HPS-1000
Top Drive Capacity	907 ton
Top Drive Max. Cont. / Interm. Torque	78,000 (115,060) ft.lb
Top Drive Working Pressure	7,500 psi
Tubular Handling	NOV HR IV Hydraracker (main and auxiliary wells) NOV Upper and Lower Fingerboards; NOV Iron Roughneck / Casing Tong (main and auxiliary wells) 31/2" to 93/4" and casing up to 25" diameter)
Mud Pumps Quantity	4
Mud Pump Type	NOV 14-P-220
Mud Pump Working Pressure	7,500 psi
Mud Pump Power	2,200 hp
Shale Shakers	4 (Four) BRANDT VSM 300
Mud Cleaner & Vacuum Degasser	2 (two) Shale Shakers equipped with Desander 3x12", Desilter 24x4" and 2 (two) Vacuum Degasser

POWER & MACHINERY

Main Power	6
Generators Model	ABB, AMG 0900XU10 LSE
Generators Power	6,800 kW
Engines Model	STX-MAN, 14V32/40
Engines Power (each)	9,118 hp
Emergency Power	STX QSK60-DMGE Engine, 1,350 kW, 1,800 rpm
Power Distribution	ABB

STORAGE CAPACITIES

Fuel Oil	45,021 bbl
Liquid Mud (active)	5,975 bbl
Liquid Mud (reserve)	9,529 bbl
Base Oil Mud	3,187 bbl
Brine	6,374 bbl
Drill Water	17,992 bbl
Potable Water	8,084 bbl
Bulk Material	31,920 cu.ft
Sack Storage	6,400 sacks

BOP AND WELL CONTROL EQUIPMENT

BOP Configuration	8-A2-R6
BOP Size	18 3/4 in
BOP Rams Working Pressure	15,000 psi
BOP Annular Working Pressure	10,000 psi
BOP Handling	NOV BOP Gantry Crane 2 x 220 ton; NOV BOP Guide & Seafixing System; NOV BOP Bulkhead Seafixing; NOV 480-ton BOP Trolley
Marine Riser Type	NOV FT-HB 90 ft
Marine Riser Id	20 in
Marine Riser Joints	121
Diverter	NOV Shaffer 211/4" x 500 psi
Tree Handling	NOV 120-ton Tree Trolley; NOV 120-ton Tree Skid
Choke Manifold Working Pressure	15,000 psi
Choke Manifold Size	3.0625 in





STATION KEEPING / PROPULSION

Thrusters	6
Thrusters Type	Kawasaki Azimuth
Thrusters Power	4,500 kW
Dp System	Kongsberg K-POS-32/12 Dynamic Positioning System
Mooring System	Emergency Towing Equipment with a KETA-40A for the aft deck. Consists of a pickup gear, a towing bracket and fairlead, and a towing wire and storage drum.

CRANES

Port	Two (2) Pedestal Knuckle Boom NOV 85 ton @ 15 m (forward for the pipe deck and aft for riser deck)
Starboard	Two (2) Pedestal Knuckle Boom NOV 85 ton @ 15 m

OTHER INFORMATION & FEATURES

Helideck	D value 27.3 m, Max. weight 12.8 ton, Enhanced Offline Capability, MPD Ready, Zero Discharge
MPD	MPD - NOV / AFGLOBAL ACD, Integrated Joint 2000PSI