

NanuQ 5000 DP / TM

Arctic drillship



The NanuQ class arctic drillship is a GustoMSC designed vessel which enables extended season to year round drilling operations in arctic areas. The design is based on the GustoMSC compact drillship philosophy combined with DP system design from GustoMSC and/or turret technology from sister company Single Buoy Moorings (SBM). The vessel is suitable for operations offshore Alaska, Canada, Greenland, Iceland, Norway and Russia.

The hull design is optimized for performance under ice conditions to enable year round drilling with ice management. The ice classed hull, on a selective basis, features the highest ice class notation from the leading classification societies.

Station keeping is achieved through dynamic positioning or turret mooring with Azipod® assist. The turret is located forward of midship to improve weathervaning, which is enhanced in both open water and ice conditions by the Azipod® thruster assist.

The DP vessel is equipped with a DP3 class dynamic positioning system based on two Azipod® thrusters aft, four azimuthing thrusters and two tunnel thrusters forward. The turret moored vessel is equipped with a DP2 class dynamic positioning system based on two Azipod® thrusters aft and two tunnel thrusters forward, enabling disconnect and connect of the turret mooring system. The Azipod® propulsion is suitable for transits under own power under ice conditions (if necessary with icebreaker escort). Redundant power and propulsion for safe return to port and extended life support under emergency conditions is provided.

Drilling capabilities are based on conventional drilling with a subsea BOP in 5,000 feet water depth with a single activity derrick. All risers and tubulars are located inside the hull or superstructure deckhouses aft of the derrick.

Optionally the design allows for drilling with surface BOP and seabed shut-off device. Mud and bulk storage is located inside the hull aft of the (turret) moonpool. All other drilling functions are grouped around the derrick and drillfloor, with the BOP storage forward between drillfloor and accommodation. A covered large 3rd party deck with hatch access is provided aft of the derrick.

The vessel is designed to comply with classification rules and regulations and coastal state regulations, including those from Norway, Russia, Canada, Greenland and USA. The drillship incorporates the latest technologies in emission reduction and is based on a zero discharge philosophy. Compliance with the latest HSE regulations with particular emphasis on the harsh arctic environment will be provided.

Drilling and marine systems and work areas are fully winterized to enable the drillship to operate in the harsh arctic environment. Work areas and access routes are located inside superstructure deckhouses to protect personnel and equipment from the climatic conditions. Re-supply station with both lay-down areas and bunkering facilities are located at both starboard and port side and aft. The aft re-supply area is specifically dedicated for re-supply under ice conditions.

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Main dimensions

Length (bpp)	192.3 m
Turret CL (forward of APP)	128.0 m
Breadth	36.0 m
Depth at centerline	18.3 m
Drillfloor height (above keel level)	39.7 m

Turret (for turret moored version only)

Internal turret with internal diameter of 12.4 m with a 12-point mooring system

Machinery

6 x diesel generator sets in 4,000 ~ 6,000 kW range

Located in 2x A-60 and watertight separated engine rooms

Thruster capacities

2 x 10,000 kW Azipod® VI series aft

4 x Azimuthing retractable thruster (DP version only)

2 x 2,500 kW tunnel thruster forward

Autonomy

120 days without re-supply

Tank capacities

Fuel Oil	8,500 m ³
Potable water	1,400 m ³
Drilling water	3,000 m ³
Active mud	1,700 m ³
Reserve mud	2,500 m ³
Brine	1,600 m ³
Base oil	1,000 m ³
Cuttings	1,200 m ³

Storage capacities

Bulk capacity	1,224 m ³
Bulk in sacks	360 pallets

Supply areas

Aft deck logistics area and bunker stations, protected by wind-walls for re-supply over the stern under ice conditions

Port- and starboard side bunker stations for re-supply under open water conditions.

Drilling capabilities

Risers, casing, drillpipe, collars and associated tools for two exploration wells, based on conventional drilling with a subsea BOP in 5,000 feet water depth

Risers MDR 21", length 75 feet

Derrick

Rating 1,000 SHT

Setback capacity 2,500 kips

Active Heave Compensating Drawworks

ROV

1x working class and 1x observation type. Launch and Recovery through dedicated moonpool aft of turret / moonpool

Cranes

Knuckle boom cranes aft 2x 85 t

Telescoping helideck support crane 5 t

Accommodation

180 POB

Helideck Sikorsky S-92A or MI-8

Lifesaving equipment

4x free-fall lifeboat (2x 100% capacity) in protected garage in accommodation area

2x davit launched lifeboat aft in protected garage

Others as per regulatory requirements

Data presented in this product sheet is for information only and subject to change without notice.

