

Bluewater Multiproduct Swivel Stacks



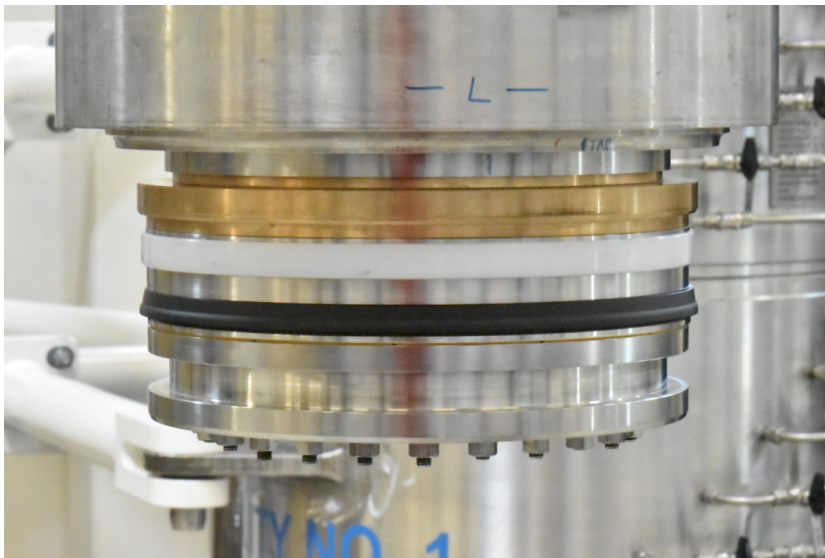
With five decades of successful experience in Turret Mooring Systems, Bluewater has developed distinctive swivel technology that enables the efficient offshore transfer of fluids, gas, power and signals from stationary subsea infrastructure and mooring line arrangements to weathervaning floating production units, such as FPSOs, FSOs, FLNGs, and FSRUs.

Bluewater's swivel stacks are engineered to ensure both reliable performance and optimal cost efficiency throughout construction and operation.

Our bespoke swivel modules are designed to stack easily. They are bolted together, making on-site assembly quick and straightforward. The compact IP module design eliminates internal piping, cutting weight and costs and boosting reliability. Our stacks prioritize efficient space usage and are built with flexibility in mind, making it simple to replace or upgrade components whenever necessary throughout their operational lifetime.

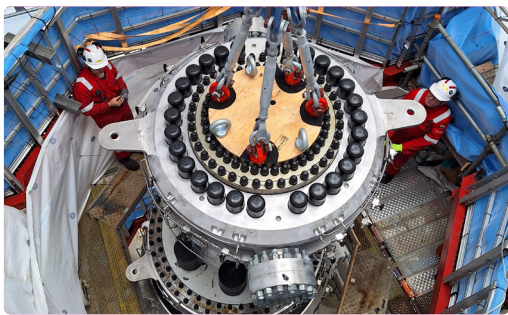
Bluewater Benefits

- Five decades of design innovation supported by a field proven track-record,
- Compact IP module and stack design with unique passive seal systems,
- Consistently surpassing industry standards with strict quality assurance,
- Dedicated in-house testing facilities designed to customise, evaluate and qualify specific requirements for each project,
- Full lifecycle support, from design through maintenance and upgrades,
- Capability to manage projects of diverse complexity, delivering customised solutions that meet the specific needs of each client.



Seal Qualifications

The long-term success of a swivel relies on having a dependable sealing system. At Bluewater, we rigorously test our products under extreme conditions. Our pre-qualified seals can handle diameters up to 2115 mm, withstand pressures up to 700 barg, and operate in temperatures ranging from cryogenic to high reservoir temperatures. We continually push the limits of our sealing systems through ongoing development and testing, staying ahead of market needs.



Swivel Modules Installation

Flexible, Modular, Interchangeable

- Custom swivel stack configuration featuring interchangeable Process, Utility, and Electrical & Instrumentation modules,
- Unique module design eliminating internal piping, cutting weight and costs and boosting reliability,
- Easily stacking and bolted connections to allow for quick and straightforward on-site assembly.



Swivel Module

Simple, Robust, Reliable

- Demonstrating fifty years of reliable swivel stack performance,
- Completely passive sealing system featuring replaceable seals,
- Wiper system that protects the seal from damage caused by sand or other debris,
- Triple-seal redundancy provides optimal production reliability, even under the most extreme failure scenarios.



Bluewater Test Facility (BTF)

In-house Technology, Engineering & Testing

- Dedicated in-house (1000 m²) test facilities,
- Qualification and validation testing for projects,
- Swivels tested with diameters over 2 meters and pressures up to 1000 barg,
- High Pressure and High Temperature (HPHT) system evaluation and testing,
- Testing of liquid and gaseous media,
- Advancement of cryogenic sealing technology.

bluewater



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