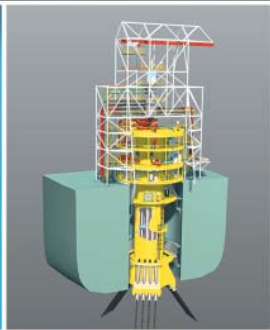
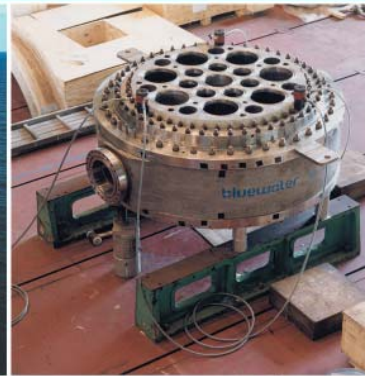


bluewater

# Turret Mooring Experience



Power by People

# Turret Mooring Experience

## Proven in the past...prepared for the Future



Bluewater have been designing, installing and operating Turret Mooring Systems since 1993. Many of the world's leading Operators employ Bluewater turret and swivel technology in their assets around the world, including the North Sea, Far East, South Africa and Brazil. Applications and operating challenges are broad and diverse, with water depths ranging from 70m to over 1000m and tankers from 26,000 to 280,000 (DWT).

While each of Bluewater's turret systems is individually adapted and tailored to specific project requirements, all Bluewater Turret Mooring systems incorporate innovative design, investment in research, development and years of operational feedback resulting in:

- Low maintenance and high reliability
- Safety and integrity of a passive design
- Ease of accessibility
- Designs that minimise loss of storage capacity but retain riser capacity
- Structural designs focused on reduced fatigue and wear
- Continuous improvement through the operational feedback and lessons learned from Bluewater operated FPSO turrets

Vessel	dwt	Field Operator	Field Location	Water Depth (m)	Swivel Stack Module Sizes	Pressure Rating [barg]
Lan Shui	26	Total Exploration & Production	Bongkot Field, Thailand	80		
Uisge Gorm	100	Amerada Hess/Bluewater	Fife, Fergus, Flora & Angus fields, UKCS	70	3x8"-1x3"intl.	350-300
North Sea Producer	100	Conoco	Mc Culloch Field, UKCS	150		
Glas Dowl	105	Amerada Hess/Bluewater	Durward & Dauntless, UKCS	90	3x13"-1x4"intl.	250-228
Petrobrás 32	282	Petrobrás	Marlim Field, Brazil	163	6x12"-2x6"	25
Bleo Holm	100	Talisman/Bluewater	Ross, Perry, Blake & Blake Flank, UKCS	100	2x10"-2x7"-2x4"	50-350-350
Petrobrás 37	269	Petrobrás	Marlim Field, Brazil	900	3x13"-3x8"-3x5"-2x3"	50-175-200
Petrobrás 47	280	Petrobrás	Roncador Field, Brazil	815	4x12"	25
Triton	105	Amerada Hess/Shell	Triton Field, UKCS	92	5x10"-1x4"-1x7"intl.	207-350-350
Jotun	92	Esso	Jotun Field, UKCS	126	3x12"-1x7"-2x4"-1x4"intl.	50-350-350-20
Petrobrás 38	270	Petrobrás	Marlim Field, Brazil	1020	3 x 12" - 1 x 8"	25 - 35
Glas Dowl	105	Petro SA (Pty) Ltd	Sable Field, South Africa	102	2x10"-3x7"	207-350