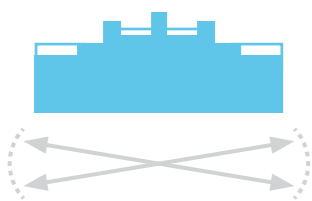


# RAMFORM Titan-Class

## Engineered for Geoscience



### Stability

The Titan design ensures better performance and room for growth. The ultra-broad delta shaped hull provides fantastic seakeeping capabilities and also means a smooth ride.



### Endurance

120 days without re-fueling.

Dry docking interval 7.5 years.

Maintenance at sea lowers operating costs.



### Redundancy

3 propellers, each with 2 motors - fully operational with 2 propellers.

2 engine rooms, each with 3 generators - fully operational with 1 engine room.



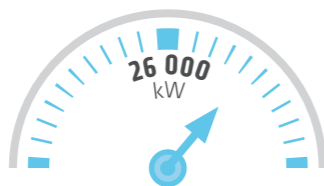
### All Weather

Widening the weather window and extending the seasons in northern and southern hemispheres without compromising HSEQ.



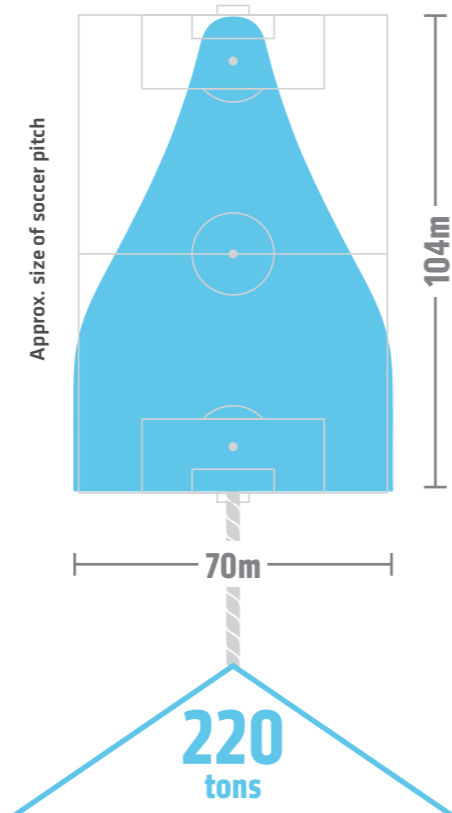
### Fuel Capacity

Providing flexibility and endurance.



### Power

Additional power enables more in-sea and onboard equipment.



### Wire Pull @ 4.5 kts

This measures towing force through the water and is a more realistic representation of towing capability than bollard pull (300 tons).

### Space = Flexibility

Three times larger than modern conventional vessels, the Titans offer a highly efficient work environment with ample space for equipment, maintenance and accommodation.



### Towing & Handling

24 reel and streamer capacity and back deck automation provides flexibility, rapid deployment and safe retrieval.

## HSEQ

Layout supports One Culture operations improving all aspects of HSEQ.



### Health

Social zones, gym, stability - rested crews perform better.



### Safety

Stable platform minimizes risk of fatigue, trips and falls. Space to work, redundancy in power and propulsion, 2 stern-launched workboats, back-deck automation.



### Environment

Larger spreads and faster turnaround mean fewer days on each job and leaves a smaller environmental footprint. DNV GL Clean Design - max SO<sub>x</sub> content of <2.5%. Reactive catalysts reduce NO<sub>x</sub> emissions by 90%.

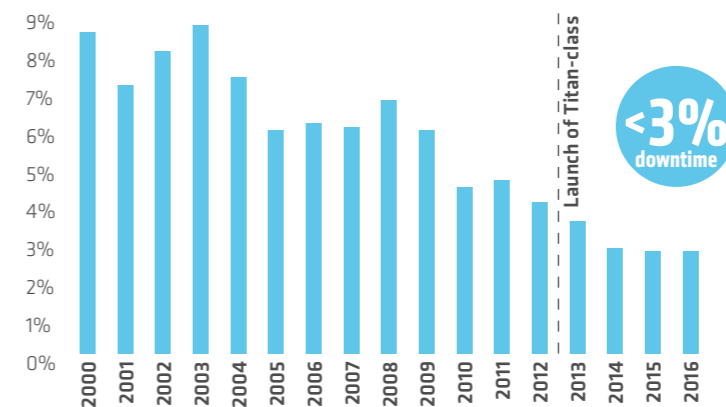


### Quality

Superior platform to deploy the best dual-sensor technology - 100% GeoStreamer. Equipped with streamer and source steering.

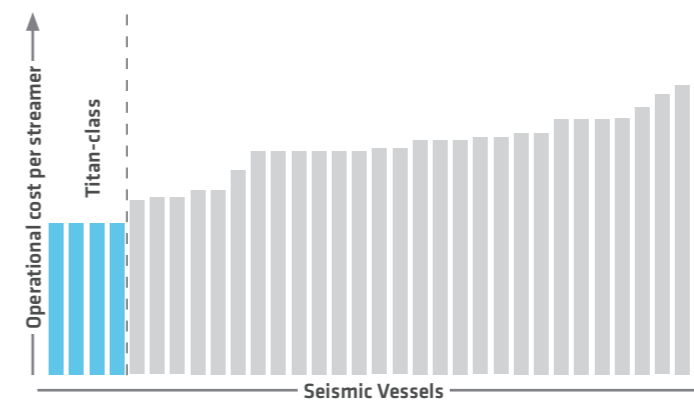
## Performance Results

### Downtime



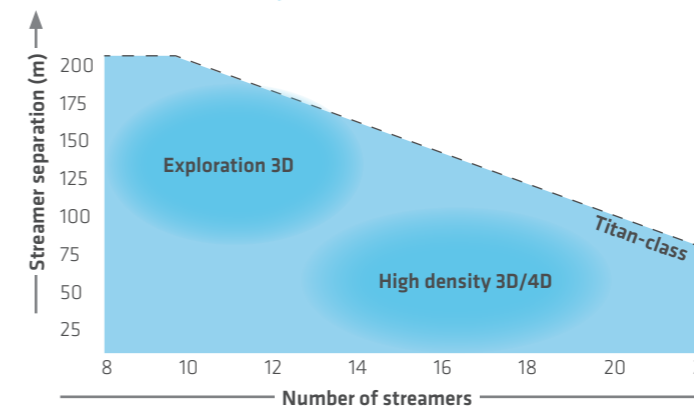
Ramform Titan - Zero maritime downtime and only 2.7% seismic downtime to date. Total sq.km acquired by Titan-class vessels is 140 052 sq. km.

### Cost/Streamer



Ultra high capacity seismic vessels are more cost effective.

### All Survey Types



Titan-class vessels cover all the bases from highly efficient reconnaissance exploration surveys to the detailed resolution required for 4D production seismic.

## Records



### Rapid Deployment

16 streamers (each 8.1 km) safely deployed in just 73 hours.

### Large Spread

13.75 sq. km fan spread with 18 streamers (each 7.05 km) x 100 m separation (130 m at tail end).

### Fast Acquisition

Highest production 175 sq.km in a day (average for this survey = 139 sq. km/day).

## Future Proof

### 25 years Lifespan

Setting the benchmark for this generation of seismic vessels and the next.

Size  
POWER  
flexibility

