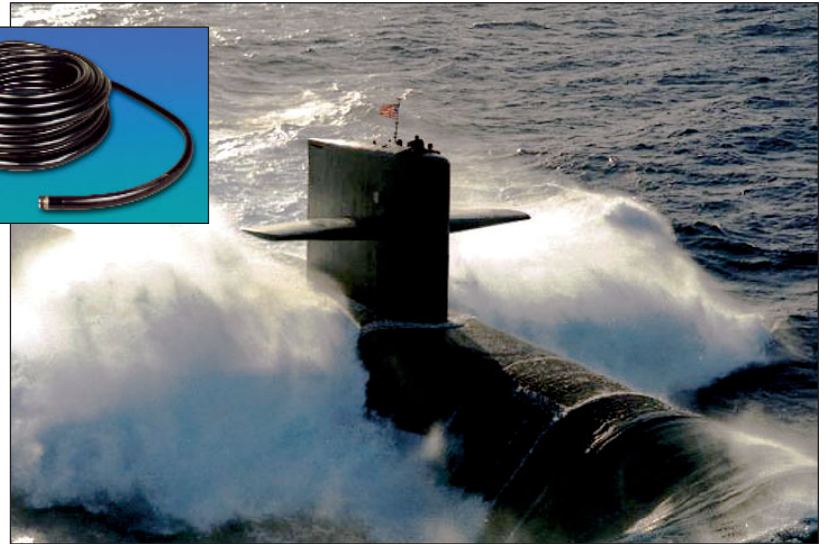




# Reelable Towed Array Sonar Systems



- Features**
- High search and tow speeds
  - Long detection range
  - Low frequency, very sensitive
  - Low self noise
  - Minimal impact on submarine performance

L-3 Ocean Systems' Reelable Towed Array Sonar System (RTASS) leverages the proven technology of the US Navy's TB-23 series submarine thinline towed array. RTASS employs highly sensitive passive hydrophones arranged within a small-diameter flexible hose that is towed behind a submerged submarine to detect, localize and prosecute submarines in all types of environments.

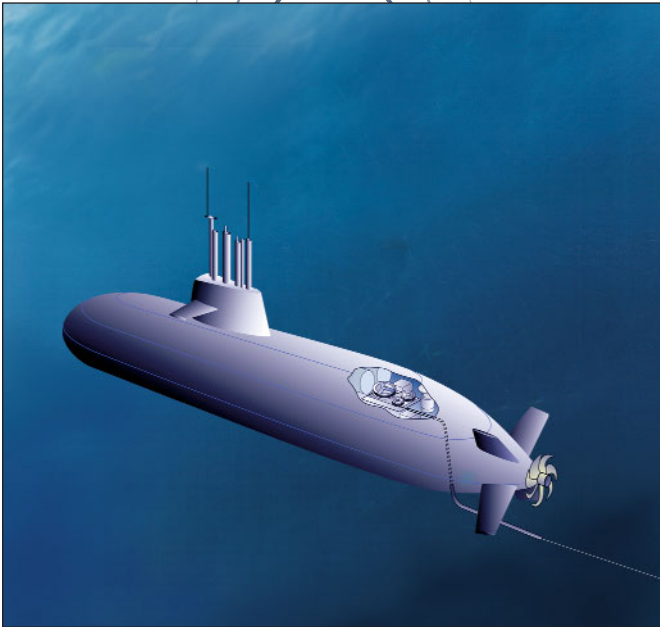
Incorporated in the sonar system are the most modern towed array acoustic engineering advancements including digital technology, improved hydrodynamic performance and wide bandwidth telemetry. Modular in design, the RTASS can be tailored to fit most specific operational requirements. When not in use, the array can be reeled onto a capstan located on the submarine.



The TB-23 towed array is towed behind the submarine's own self noise, greatly improving search effectiveness while minimally impacting the sub's performance.

L-3 Ocean Systems is a certified USN depot of towed arrays and has built more US Navy Thinline Towed Array systems than any other company. Almost all US Navy submarines carry at least one towed array built and supported by Ocean Systems. Our facilities for array fabrication and testing are established and proven. High customer satisfaction has been a hallmark of Ocean Systems due to the high quality and reliability of our built arrays.





Specifications	
Maximum operating depth	800 m
Survival depth	1500 m
Temperature	Operating: -2.5°C to 40°C Storage: -40°C to 70°C Reeling: -10°C to 40°C
Frequency range	Configurable to customer requirements
Heading sensor	Resolution: 0.3° Accuracy: 0.5° Roll Output: Continuous Pitch: ±15°
Depth sensor	Resolution: 0.5 m (1.64 ft) Accuracy: 1.0 m (3.28 ft) Range: 800 m (2,625 ft)
Temperature sensor	Resolution: 0.3°C Accuracy: 0.5°C



Towed Array

### L-3 Ocean Systems Submarine Towed Arrays

- **TB-16F** – The latest fatline array with heading sensors
- **TB-23** – The standard thinline array with improvements
- **TB-29A** – The new thinline array being developed by the Omnibus program

The TB-23 is currently being updated with modern sensors and telemetry to provide enhanced performance in littoral waters. The updated TB-23L will be the only thinline reelable towed array built with this capability. An export version, the TB-23F, is also available.

The L-3 Ocean Systems towed array system can be installed with a standalone processor/display console or integrated into an existing sonar processing system.

