

## Mk 30 Mod 2 ATS Anti-Submarine Warfare Training Target System



The Mk 30 Mod 2 ATS is an organic, versatile, affordable unmanned underwater vehicle anti-submarine warfare training target system.



*Mk 30 Mod 2 Surface Craft Launch*



*Mk 30 Mod 2 Underway*



*Mk 30 Mod 2 Helicopter Launch*

### Benefits

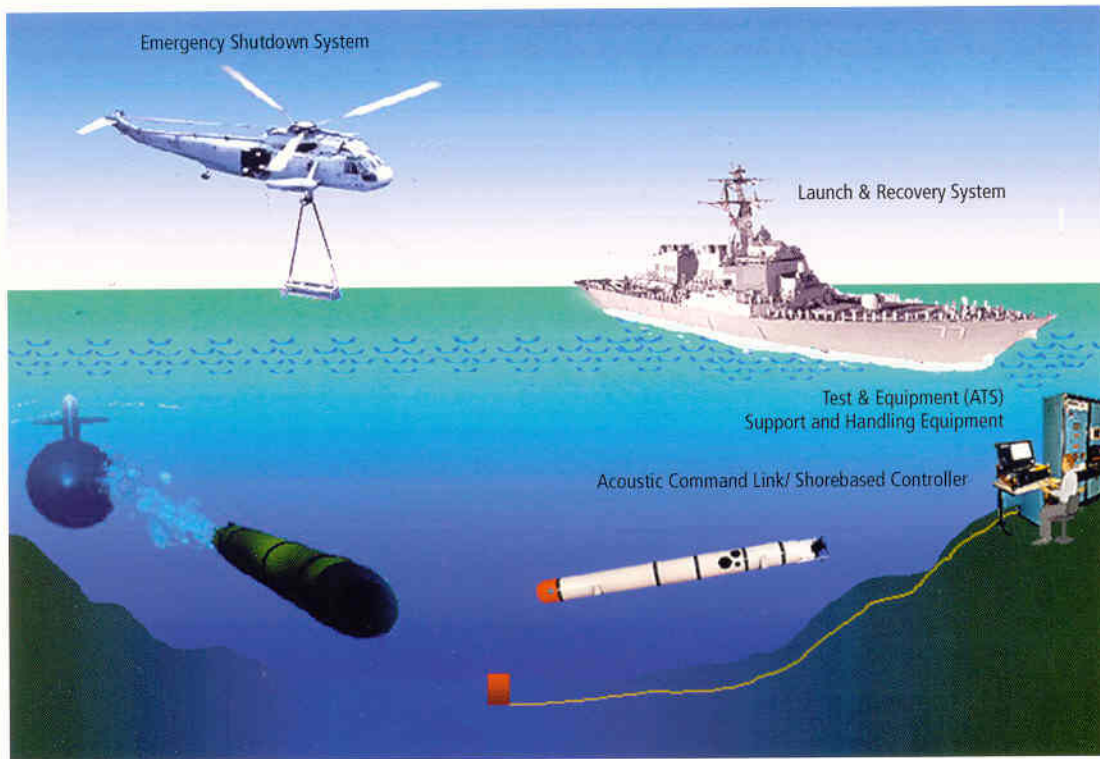
- Affordability
- Increased availability for missions
- 25% reduction in operational budget
- Expanded range of training scenarios (2:1)
- Integration with existing launch and retrieval systems

The Mk 30 Mod 2 ATS provides cost-effective ASW (Anti-Submarine Warfare) training for Navy platforms such as surface ships, submarines and aircraft. Using a highly reliable and maintainable UUV (Unmanned Undersea Vehicle), the Mk 30 Mod 2 ATS simulates a submarine's acoustic, MAD (Magnetic Anomaly Detector), and navigational characteristics for ASW sensors and torpedoes to detect, classify, track and pursue in a realistic, operational training environment.

The Mk 30 Mod 2 ATS is designed with producibility and maintainability as its primary requirements. Through a balanced combination of COTS (Commercial-Off-The-Shelf) and unique electronics, integrated with embedded software, the target provides a closed-loop system of mission performance, self-diagnostics, and adaptability for future mission needs, including test and evaluation of other units (e.g., torpedo proofing).

The Mk 30 Mod 2 ATS offers the user an entire suite of support and test equipment to completely maintain the target. The launch control system provides the user with all pre-launch, diagnostic, and data retrieval capabilities. The mission preparation and analysis system provides a wide array of submarine simulation characteristics as well as post-mission data analysis. The ATS test equipment provides the capability for complete target turnaround and test in one unit. The ACL (Acoustic Command Link) shorebased controller allows for underwater communications with the target during mission exercise.

The Mk 30 Mod 2 ATS is a complete and proven target system designed to accommodate future system enhancements and support the fleet's ASW needs well into the 21st century.



## Mk 30 Mod 2 ATS

### Specifications:

Speed	5 – 20 kn
Endurance	12 hr at 5 kn (without MAD)
Depth	50 ft to 1,000 ft
MAD (Magnetic Anomaly Detection)	0.5 gamma at 1,500 ft – selectable per leg
Passive Tools	16 fully programmable; 160 dB (max)
Passive Broadband	140 dB (max)
Sonar Active	180 dB; 8 temporal highlights
Torpedo Active	190 dB; 8 temporal highlights
Array	Point source
Active Emissions	3 concurrent sonar bands
Evasion	Autonomous torpedo, autonomous sonar, command torpedo, command sonar, ACL torpedo, ACL sonar
ACL (Acoustic Command Link)	25 commands, >10 kyds
Reliability	90% with 4 hr mission
Maintainability	MTTR = 3 hr (average including any failures)
Radiated Noise	Not to interfere with PNB (Passive Narrow Band), PBB (Passive Broad Band), active response, active emissions, and ACL
Missions	3 missions per run, unlimited missions selectable during pre-launch

### Features

- High reliability
- Low life cycle costs
- Flexible simulation capability
- Reliability, maintainability and testability

### Media Contact

Steve Brecken  
978.858.5246 phone  
978.858.9414 fax  
brecken@raytheon.com

### Integrated Defense Systems

50 Apple Hill Drive  
Tewksbury, Massachusetts  
01876 USA  
www.raytheon.com

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