



MK 46 Mod 5A(SW) Torpedo



The MK 46 Mod 5A(SW) is the most reliable and affordable lightweight torpedo in the world.

Benefits

- System compatibility
- Greater range
- Enhanced search logic
- Easily upgradeable
- Effective in shallow water

The MK 46 Mod 5A(SW) torpedo is the most advanced lightweight ASW weapon available. It is ideally suited to counter today's threats and those projected in the near future.

The two-speed MK 46 Mod 5A(SW) features both active and passive sonar with enhanced capabilities for shallow and deep water. With launch accessories, it can be deployed by various means: rotary- and fixed-wing aircraft, rocket assisted launch (ASROC), vertical launch ASROC (VLA) and surface vessel torpedo tubes (SVTT).

The advanced technologies built into the MK 46 Mod 5A(SW) are unparalleled when compared to other torpedoes currently available on the international market.

The MK 46 Mod 5A(SW), like its predecessors, is compatible with 20 launch platforms and can be incorporated into any modern navy — without conversion costs. And with shallow-water capabilities, it meets the NATO 40-meter minimum launch depth requirement from all compatible platforms.

Best of all, the MK 46 Mod 5A(SW) is backed by over 25 years of production experience and logistics support service from the U.S. Navy/Raytheon team, ensuring a quick response today and for decades to come.

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Acoustic Sensitivity

The MK 46 Mod 5A(SW) has greatly improved acoustic sensitivity to counter both conventional and coated hulls.

Guidance and Control

The MK 46 Mod 5A(SW) features an advanced digital computer control system with built-in logic. Microprocessor technology is used extensively to process and store a predetermined set of tactics, including optimized search and reattack patterns.

Shallow-Water Operation

In extensive testing with over 100,000 simulations and over 10,000 in-water exercise runs, the U.S. Navy has proved that the MK 46 Mod 5A(SW) performs effectively in shallow water. It has the ability to attack and destroy the fast SSNs as well as the slow, shallow-running, diesel-electric submarines. It also features a launch capability in 40-meter depths from all platforms.

Deep-Water Operation

The MK 46 Mod 5A(SW) provides a deep search capability that optimizes search, attack and reattack patterns. This enables the MK 46 Mod 5A(SW) to search for and acquire almost all targets — even at their maximum operating depths.

Warhead Lethality

The MK 46 Mod 5A(SW) carries a warhead that is capable of rupturing the hull or causing considerable damage on impact or a near miss. This warhead remains highly effective in both shallow and deep water against the vast majority of current-generation submarines.

Mission Endurance

Two-speed propulsion provides greater range and reduces torpedo self-noise, allowing the torpedo to search quietly at low speed and attack at high speed when the target is acquired.

Reliability

The MK 46 Mod 5A(SW) has consistently performed well above the U.S. Navy performance goal for reliability, making it the most successful torpedo program in U.S. Navy history.



Specifications

Length:	260 cm
Diameter:	32 cm
Weight:	231 kg

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