

A.244/S
MOD.3

LIGHTWEIGHT TORPEDO

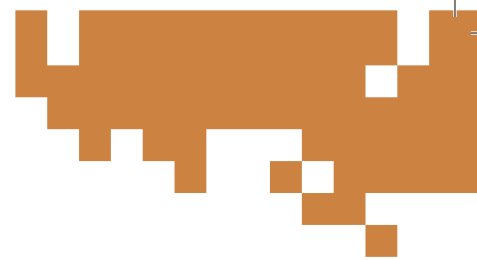
The A244/S Mod 3 Lightweight Torpedo represents the latest upgrade of the world-wide proven A244/S family, a LWT in service with more than 16 Navies, designed to counter the threat posed by both modern conventional and nuclear submarines. A new and more powerful propulsion battery, with an increased number of cells and an electrolyte circulation system, ensures a higher top speed and a 50% increase in the endurance of the weapon.

The introduction of an electronic controller allows a variable speed propulsion with further advantages in terms of endurance and hit probability. The acoustic performance of the A244/S in very shallow waters is now supported by an Advanced Digital Signal Processor module, to counter the latest and more sophisticated torpedo countermeasures. The A244/S Mod 3 torpedo can be easily launched from any surface platform or aircraft.

COMPONENTS

- The Acoustic Seeker, with preformed multiple transmission and reception beams and multi-frequency operating capability, ensures high performance in very shallow waters and over very long engagement distances
- The omni-directional type of Warhead is designed to maximize the lethal effect of the torpedo
- The Guidance & Control System is based on modern micro processor technology
- The Advanced Digital Signal Processor, introduced in the latest Mod 3 upgrade, is able to classify and track several threats simultaneously, allowing a clear discrimination between threat and countermeasures
- The Propulsion System is based on a non-toxic and extremely safe seawater battery with an electronically controlled brushless contra-rotating motor which directly drives the propeller shafts.

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MAIN ACOUSTIC FEATURES

- Active detection range in excess of 2100m
- Very low TS detection capability
- Active, passive and mixed modes of operation
- Narrow and broad band acoustic modes
- Bottomed target detection capability
- Wide acoustic coverage
- High resistance to anti-torpedo countermeasures: spatial diversity, multi-frequency, signal processing, classification
- Late target alert by low radiated noise and programmable acoustic enabling distance
- Salvo mode capability, interference-free

MAIN DYNAMIC FEATURES

- Top speed more than 38kts, high speed 36kts, minimum speed 28kts
- Endurance in excess of 13,500m (low speed) or 10,000m (high speed)
- Very low radiated noise
- Efficiency of propulsion system independent of operational depth
- Very shallow waters operation capability (40m)

SYSTEM FEATURES

- Computer based TFCS, linked to Command & Control System and to on-board sensors
- Automatic selection of torpedo pre-set data to achieve maximum hitting probability
- High reliability
- Easy and safe maintenance
- Low-cost logistic support

DIMENSION AND WEIGHT

- Length: 2750mm
- Diameter: 324mm
- Weight: < 265Kg in aircraft configuration

