

# A.244/S MOD.3 LIGHTWEIGHT TORPEDO

ELECTRONICS DIVISION

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 multifrequency 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.



## 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



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