



BSS

Underwater Mobile Target

DESCRIPTION

The BSS is an underwater mobile target designed for use in ASW training scenarios, for advanced operational evaluation, development proving trials of weapons and sea acceptance trials.

The BSS Mod.3 is a self-propelled, multi-speed, deep running active and/or passive acoustic target, suitable for any type of acoustic torpedo and/or a wide range of sonars.

It is conceived to provide a realistic emulation of a submerged real target including the real dynamics and acoustic features of all types of submarines.

The BSS Mod.3 includes a Sonar Target Emulator, which consists in a devoted spherical transducer lodged in the front part of the vehicle while the receiving sonar transducers are located in the towed array.

The torpedo target emulator consists in a 49m towed array with 16 independent transducers providing physical dimensions to the active target echo and a noise generator for the passive mode of operation.

The significant mission data are recorded by means of a digital data recording system located in the exercise section in which

is also located the synchronised acoustic transmitter for the use of the BSS in a three-dimensional underwater tracking range.

The target can perform a wide selection of pre-programmed patterns and can initiate either automatically or upon orders received by remote control evasive manoeuvres when under torpedo attack.

The functions of Sonar and Torpedo Emulators can be activated at the same time in order to allow both the submarine hunting (detection and tracking) as well as the dynamic trials and the torpedoes operational evaluation.

Remote control is exercised by means of an acoustic underwater telephone link.

STATUS

The BSS Mod.3 is based on several sections identical to the Black-Shark HWT, in order to limit the additional Support Test Equipment necessary.

In service with Italian Navy. Being used for the operational evaluation of MU90 and Black-Shark torpedoes.



SPECIFICATIONS

Length: 5923 mm
Diameter: 534 mm
Weight: 1,073 kg in air
Speed: from 8 to 31 knots
Endurance: 7, 15 or 30 minutes
Operating depth: 10 - 400 m
Launch mode: the BSS can be deployed from 534mm surface air-pulse tubes, 534mm underwater swim-out or water pulse tubes, or by gravity from tilttable slides.

