STS
Shipborne Torpedo System

The STS is a comprehensive torpedo launching system featuring multi-torpedo capabilities, outstanding safety as well as being compliant with the most demanding environmental situations.

Hardware and software is modular architecture allowing the system to be configured for the control, preset and firing of the MU90, the new Flash Black, the A244/s (any model) and Mk46 (any model) lightweight torpedoes, as well as a combination of different torpedoes (multiple torpedo system capability).

DESCRIPTION

In its standard configuration the STS consists of a shipborne presetter (SPS) connected to the port and starboard Torpedo Launching System (TLS) through Torpedo Interface Units (TIU). Temperature Alarm Panel (TAP) and Torpedo Tubes Air Charging Stations (CHS) are also provided.

The SPS is linked to the vessel LAN so that the torpedo system is fully remotely operated through the ship multifunction consoles in the command centre.

Training and degraded operational modes, defined as “local” and “emergency” modes, are built-in features of the system.

When operating in local mode, the display of SPS features an operator-friendly MMI suitable for monitoring the status of each torpedo (in each tube), the status of the tubes and the status of any of the links with the ship’s combat system.

Ship’s data log and target data fed through the link with the LAN are processed by the SPS to define the optimal torpedo firing solution as well as the relevant hit probability circles associated with the engaged functions.

When operating in remote mode, all data computed and available as SPS level are provided to the multifunction consoles to allow same MMI and extended planning functions.

The TIU (one for each TLS) provides the electrical interface between the SPS and the torpedo/tube. According to the system configuration, the TIU accommodates the relevant torpedo hardware interface. The TIU is linked to the SPS via a digital serial line.

The standard deck-mounted TLS is the trainable triple-barrelled B515.

Thanks to its modular design, the B515 can also be configured as fixed single tube or mounted side-by-side in a twin tube configuration for external use or, for stealth purpose, in torpedo magazine, such as for Horizon and FREMM frigates.

When required, any owned TLS as the Mk 32 (any model) can
be easily integrated within the STS. According to the type of selected weapon, the Mk 32 torpedo launcher can be upgraded with a low-cost modification kit to achieve multi-torpedo capability.

STATUS

In service on-board of more than 200 ships owned by 20 navies around the world, it is currently in production in strict cooperation with several shipyards.