UGST

Mission

The UGST multipurpose deep-sea self-homing wire-guided torpedo is designed to engage enemy submarines, surface ships and vessels, and stationary targets.

Composition

- hardware/electronic module with active-passive and wire guidance systems, and a propulsion control system;
- warhead section;
- fuel tank section;
- power plant section;
- tail section;
- command wire coil.

Features

The UGST torpedo is fielded with surface ships and submarines, equipped with 533mm torpedo tubes. A 7.2-m long basic modification of the torpedo can be included into the arsenal of carrier ships fitted with Russian-standard torpedo tubes, whereas a 6.05-m modification can be launched from NATO-standard torpedo tubes. The torpedo interoperability with carrier ship systems is provided by setting up software of the system unit during customization of the given ship project. Solutions for its integration with carrier ships currently upgraded are developed envisaging delivery of a special interface pre-launch preparation panel for entering data into the torpedo before launch.

Practice torpedo used for personnel training and tactical naval exercises is converted from the combat torpedo by substituting the warhead compartment for the practical compartment.

The UGST torpedo features modular design with the multilevel changeability potential (from reprogramming the onboard equipment of the basic modification to replacing the engine or tank compartment) which allows rapid reconfiguration of the torpedo to meet concrete combat employment requirements.

The UGST torpedo is powered by a liquid monopropellant axial piston engine. A water-jet propulsion device is connected to the engine directly, without a reduction gear. The torpedo has a unique hydrodynamic layout with biplane ruddersfolded out as soon as the torpedo leaves the launch tube.

The warhead compartment houses an insertion capsule filled with explosives. Warhead modifications contain explosive charges of different type and weight.

The nose section of the UGST torpedo accommodates the equipment module with

the homing system, remote control system, movement control system, and other electronic equipment. The active-passive homing system features a planar receive-transmit array antenna with the adjustable surveillance sector.

The architecture of the equipment module is based on a unique powerful reprogrammable computing core integrating data from the onboard systems into a single information pool in accordance with the integrated management systems technology.

The torpedo is capable of destroying enemy surface ships and vessels, fixed targets, and submarines at a depth of up to 500 m. The UGST torpedo can be launched from 533mm torpedo tubes mounted on submarines and surface ships.

Main characteristics:

- Caliber, mm: 534,4
- Length, m: 7,2 (6,05)
- Weight, kg:
  - torpedo: 2200(1880)
  - explosive: up to 300
- Speed, knots:
  - mode I: 50
  - mode II: 35
- Target engagement depth, m: 8-500
- Submarine launch depth, m: up to 400
- Homing system reaction radius, km:
  - for submarines: up to 2,5
  - for surface ships: up to 1,2
- Surface ship wake indication time, s: up to 350
- Fuse reaction radius, m:
  - for submarines: 2
  - for surface ships: 6-8
- Remote control wire length, km:
  - torpedo reel: up to 25
  - towed reel: up to 5

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