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## Club-S

### Inevitably strikes either on water, or on land

#### Long-range striking weapon

- ▶ Possibility to combine different types of missiles;
- ▶ Supersonic velocity of the warhead at the terminal stage;
- ▶ Flexible programmed flight paths of a missile;
- ▶ Strong jamming immunity;
- ▶ Automation of combat process;
- ▶ High reliability;
- ▶ Tested in time of war

Club-S is designed for submarines. The system consists of a fire control system or a hardware and software system of a submarine's CIMS and vertical launcher units (VLU).

533-mm torpedo tubes with a quick reloading system can be used instead of the VLU.

The ammunition load includes 3M-54DE anti-ship missiles (3M-54TLE if launched from the VLU) and 3M-14TE, 3M-14TLE cruise missiles to engage land facilities. The missiles can change altitude and course during the flight to fly around the dangerous areas and geographical obstacles; to create a complex space-and-time scheme of a salvo.

Supersonic warhead of 3M-54DE or 3M-54TLE that separates when approaching a target is almost invulnerable to air defence systems of the ship.

Once installed on a submarine Club-S will serve as an irrefutable argument in containing a potential enemy.

#### Main characteristics:

- Range of fire, km : 300
- Altitude of 3M- 54DE and 3M-54TLE /3M-14E and 3M-14TLE, m:
  - at midcourse phase : 20...400/variable
  - at terminal phase : 5...10/50...150
  - Velocity of missiles/warheads, m/sec: 210... 270/ at least 700
  - Launch weight of 3M-54DE/3M-54TLE/3M-14E/3M-14TLE, kg : 2273/2315/1747/2928
  - Control system type : inertial + GPS + active radar homing head



**ROSOBORONEXPORT**

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