



Shtil-1

Mission

The Shtil-1 shipborne multi-channel medium-range air defence missile system (ADMS) is designed to provide all-round collective protection of naval groups and ship convoys, as well as individual protection of carrier ships from attacks of anti-ship missiles, aircraft, helicopters, boats and vessels.

Composition:

- multichannel fire control system;
- 9M317E and 9M317ME SAMs;
- rapid-fire honeycombed vertical launchers or directional rapid-fire single-rail launchers;
- modular pre-launch preparation equipment;
- basic maintenance equipment;
- ADMS software;
- ground support equipment.

Features:

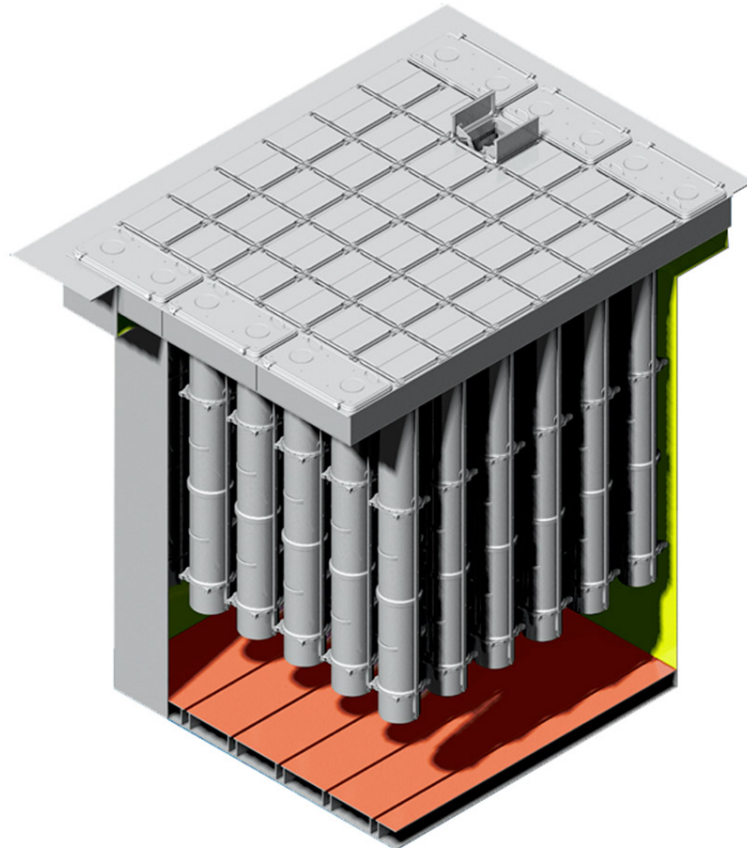
- owing to the variable composition, the system is capable of engaging from two to 12 targets simultaneously. The number of target channels and ammunition allowance for the system are defined by the carrier ship displacement and customer requirements. One, two or three missiles are assigned automatically for each target at a time;
- thanks to the modular design of the equipment the system enjoys high survivability, easy maintenance and combat employment characteristics;
- the system can be supplied with directional rapid-fire single-rail launchers (with 9M317E) or rapid-fire honeycombed vertical launchers (9M317ME missile);
- ammunition load depends on the number of guided launchers or number of launch modules in the vertical launcher;
- the system employs single-stage solid-state missiles. Missile guidance system: inertial navigation + radio-correction (9M317ME1) + semi-active radar homing at the terminal leg of the trajectory. The warhead is exploded by a radar fuse or impact sensors. The 9M317ME missile is stored on the ship and launched from the TLC;
- the data is fed from the onboard 3D all-round surveillance radar. The system is also capable to control combat employment of the ship artillery. Combat operation is automated.

Main characteristics:

- ADMS with single-rail launcher:



- Launch range, km: 3,5-32
- Max slant range, m: up to 15000
- Min slant range, m: 5
- Max speed of engaged targets, m/s: 830
- Operational mode (main): automatic
- Number of targets engaged simultaneously: 2-12 (depending on system's composition)
- Deployment time, stand-by mode, s: 10-19
- Rate of fire (one LC), s: 12
- SAMs per launcher: 24
- Number of launchers: up to 4
- Maintenance crew, prs: 11-32 (depending on composition)
- SAM specifications: 9M317E
- Length, m: 5,55
- Diameter, m: 0,4
- Wing span, m: 0,86
- Launch weight, kg: 715
- Max flight speed, Mach number: 3
- Guidance: inertial navigation and radar homing
- Warhead type: HE-fragmentation
- Warhead weight, kg: 70
- ADMS with vertical launchers:
 - Launch range, km: 3,5-50
 - Max slant range, m: up to 15000
 - Min slant range, m: 5
 - Max speed of engaged targets, m/s: 830
 - Operational mode (main): automatic
 - Number of targets engaged simultaneously: 2-12 (depending on system's composition)
 - Deployment time, stand-by mode, s: 5-10
 - Rate of fire (one LC), s: 2-3
 - SAMs per launcher: 12
 - Number of launchers: up to 12
 - Maintenance crew, prs: 6-27 (depending on composition)
 - SAM specifications: 9M317ME
 - Length, m: 5,18
 - Diameter, m: 0,36
 - Wing span, m: 0,82
 - Launch weight, kg: 581
 - Max flight speed, Mach number: 4
 - Guidance: inertial navigation +radio-correction+ radar homing
 - Warhead type: HE-fragmentation
 - Warhead weight, kg: 62





АО «Рособоронэкспорт» – единственная в России государственная организация по экспорту всего спектра продукции, услуг и технологий военного и двойного назначения. Входит в Госкорпорацию Ростех. «Рособоронэкспорт» образован 4 ноября 2000 года и является одним из лидеров мирового рынка вооружений. На долю компании приходится более 85% экспорта российских вооружения и военной техники. «Рособоронэкспорт» взаимодействует с более чем 700 предприятиями и организациями оборонно-промышленного комплекса России. География военно-технического сотрудничества России – более 70 стран.

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