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## Uran-E

### Mission

The Uran-E shipborne anti-ship missile (ASM) system is designed to destroy missile/torpedo/gun boats, surface ships displacing up to 5,000 tonnes, and seagoing transports.

### Composition

- Kh-35E (Kh-35UE) tactical subsonic anti-ship cruise missile in transport-launch container;
- quick-release launcher with missile loader;
- shipborne automated control system;
- ground support equipment with test facilities.

### Features

The Kh-35E and Kh-35UE tactical anti-ship missiles are composed of the body, active radar seeker, high-explosive fragmentation penetrator warhead, independent self-destruct system, inertial navigation system, radio altimeter, air intake, fuel system, efficient sustainer turbofan and solid-state rocket booster.

Missiles in TLCs are loaded for launch into shipborne launchers. One launcher can be armed with up to four TLCs.

The automated control system is used to implement missile combat preparation and pre-launch procedures. Target designation data is fed from onboard organic and external sources, including airborne ones.

Cruise flight phase is controlled by inertial navigation system to keep the missile on the preset path and to steer it to the target area. Terminal guidance is provided by an ECM-resistant active radar seeker.

Thanks to the drastically reduced radar cross-section and sea-skimming flight profile the Uran ASM penetrates enemy ship's self-defences with enhanced probability, providing covert combat employment and surprise strike capabilities.

Uran-E missile system can be installed on fighting ships both under construction and in service (after due retrofit), transport and merchant vessels.

### Main characteristics:

- Operational range, km:
  - maximum Kh-35E: 130



- minimum Kh-35E: 5
- maximum Kh-35UE: 260
- minimum Kh-35UE: 7
- Flight altitude, m:
  - cruise phase Kh-35E, Kh-35UE: 10-15
  - terminal phase Kh-35E, Kh-35UE: 4
- Max flight speed, Mach number:
  - Kh-35E: 0,8
  - Kh-35UE: 0,8-0,85
- Total system weight (8-16 missiles), t: 12,5-23
- Weight, kg:
  - missile at launch Kh-35E: 620
  - missile at launch Kh-35UE: 670
  - warhead Kh-35E, Kh-35UE: 145
- Missile length, m: 4,4
- Missile diameter, m: 0,42
- Launch interval in any salvo sequence, s: 2-3
- Max horizontal missile turn after launch, deg:
  - Kh-35E:  $\pm 90$
  - Kh-35UE:  $\pm 130$





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