

R 60-NT-1



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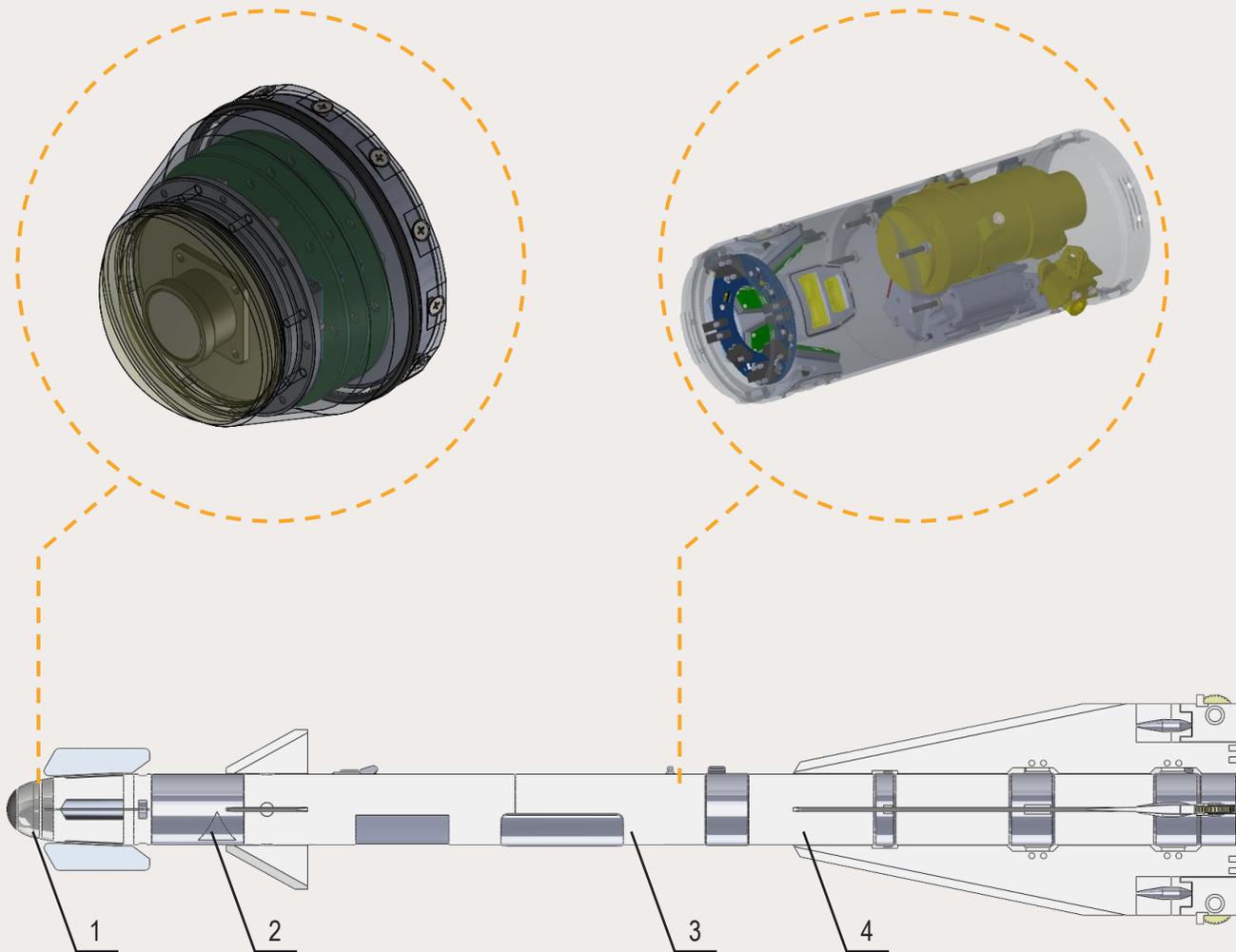
Air-to-air missile

The R-60BM homing missile is an upgrade of the R-60 (R-60M) air-to-air missile and involves the **R-60-NT-L** version. The missile is equipped with the semi-active laser seeker.

The R-60-NT-L missile is designed to hit targets marked by a laser designator. It is supposed to engage mainly the ground targets using the artillery laser designators-rangefinders.

The main features of the missile are:

- wide instantaneous field of view $\pm 15^\circ$
- automatic search and in-flight target lock-on when the missile is launched into homing area;
- automatic in-flight re-targeting of the missile from one target to another;
- quick changing of the illumination frequency codes;
- the seeker has no moving mechanical parts, which makes it reliable, extends its service life;
- advanced hardware components.



1 - Seeker; 2 - Warhead; 3 - Proximity fuse; 4 - Missile engine

- The missile is equipped with a new multi-beam laser proximity fuse that provides a continuous field of view, which significantly increases the probability of hitting small targets. In contrast to the organic optical fuse of the R-60 (R-60M) missile, the new fuse allows missile to engage targets with the dimensions less than $1 \times 1 \text{m}^2$ and with a body made of non-metallic materials. The function of programming the trigger time of the fuse allows the missile to significantly increase the probability of hitting the target.
- The missile warhead may also have submunition options for more effective engagement of the different types of intended targets.
- The new autopilot of the missile is equipped with modern sensors integrated into the upgraded control system, which allows you to accurately stabilize and control the missile.
- The missile engine design developed by of our partners allows us to increase the launch range by 20%. In addition, the interchangeability remains: the R-60BM missile can be equipped both with the old engine and the new one without any structural modifications of the missile.



Target engagement range, km	0.2 – 6
Target engagement altitude, km	0.1 – 5
Missile speed, m/s	730 – 850
Kill probability (by one missile)	0.9
Max overload, g	30
Engagable target overload, g	12
Controlled flight time, s	20
Engine type	double-mode missile engine solid-fuel
Guidance system	homing

During the upgrading of the R-60BM missile, the design, technological and aeroballistic characteristics of the original missile were preserved to the maximum extent possible.

A large number of previously produced and currently stored R-60 (R-60M) missiles, together with the applied engineering solution, which allowed preserving the most labor-intensive body parts – all this in general allows us to supply the Customer's demand for the offered product, as well as to ensure the attractive price offer by reducing the cost.

The R-60-NT-L missile can be installed both on standard aircraft launchers, and placed in transport and launch containers when used as part of anti-aircraft missile systems.

