

**R 60-NT-T**



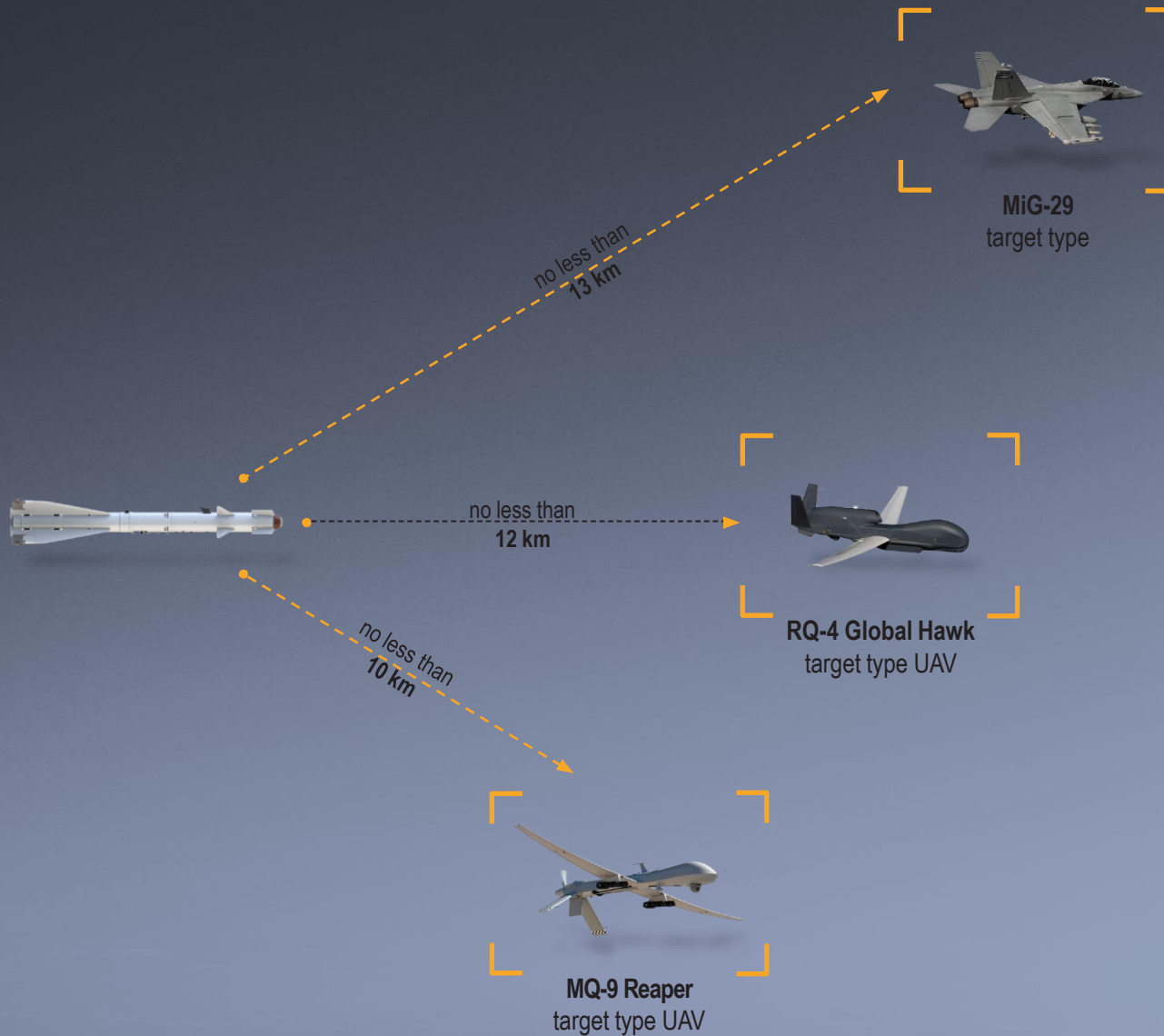
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**Air-to-air missile**

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

The R-60-NT-T missile with an infrared seeker is designed to hit low-temperature (low-contrast) targets. It is supposed to engage mainly air targets. However, due to the use of advanced hardware components and modern signal processing algorithms, this type of missiles can also hit ground targets.

## Detection range



### Main features:

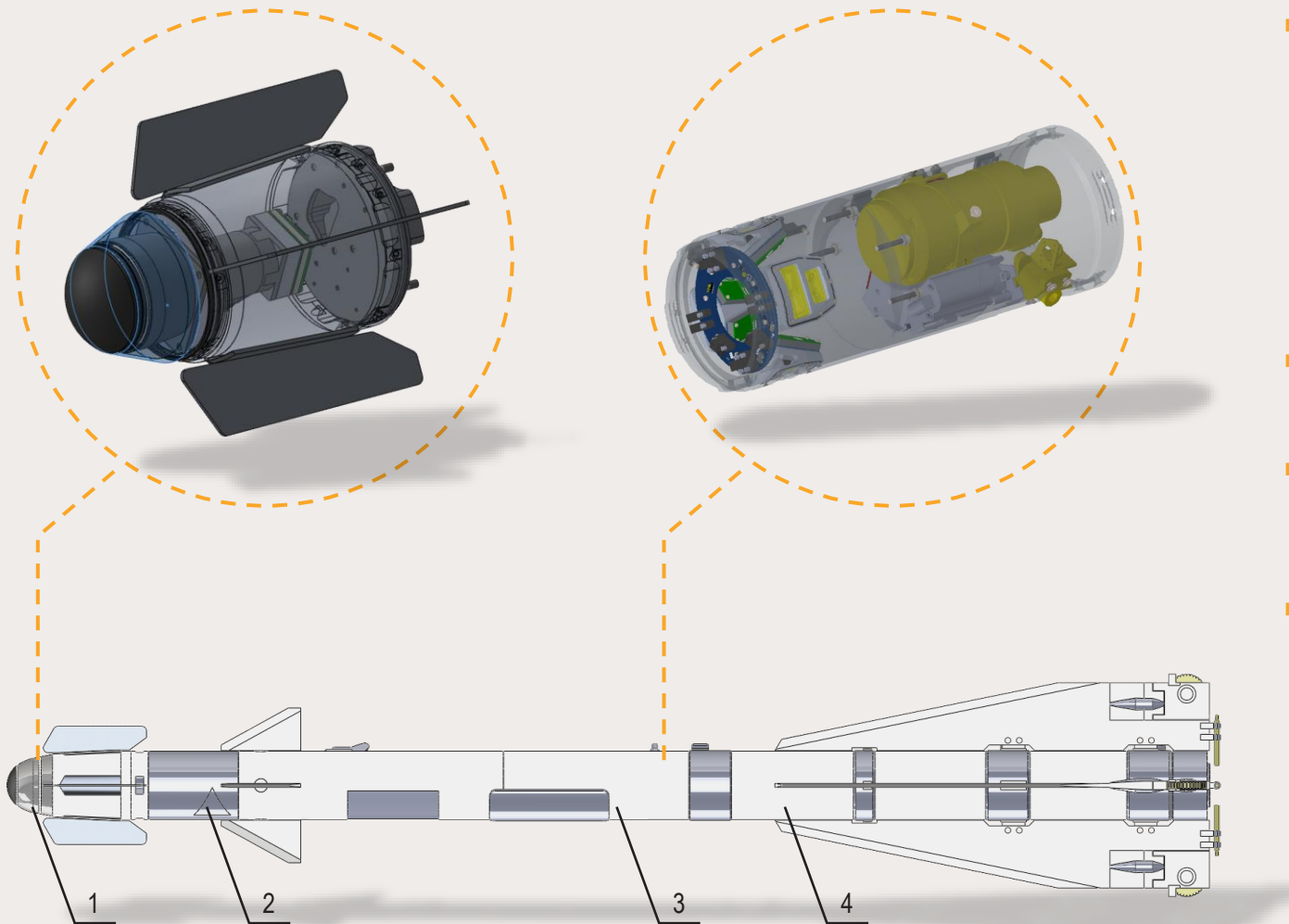
■ long range of air target acquisition:

MiG-29 target type – **no less than 13 km**

UAV "RQ-4 Global Hawk" target type – **no less than 12 km**

UAV "MQ-9 Reaper" target type – **no less than 10 km**

- passive mode operation (target illumination is not required);
- the infrared seeker is an independent guidance system (it provides detection, acquisition and auto-tracking of the target);
- output of the video generated by the seeker;
- the seeker equipped with the uncooled microbolometer array as a receiver, and has no moving mechanical parts, which makes it reliable, extends its service life and simplifies its maintenance during operation;
- 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.



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

