



## **MISSILE 9M14P1 and 9M14PB1**

### ***"MALJUTKA"***

#### **Antitank guided missile 9M14P1 and 9M14PB1 with nose probe extended**

Wire guided antitank missile with semiautomatic guidance system (SACLOS) 9M14P1 ( and improved 9M14PB1 with nose probe extended) is effective antitank combat weapon at ranges up to 3000 m with high hit probability and high armour penetrating capability up to 460 mm (9M14P1), i.e. 580 mm (9M14PB1) thickness.

### System Characteristics:

Maximum range	3000 m
Maximum effective firing range	500 m
Maximum range flight time	25 s
Firing rate (missile/min)	2
Functional efficiency	97 %
Armour penetrating capability	
- missile 9M14P1	460 mm
- missile 9M14P1B1	580 mm
Operating temperature range	-40° to +50°C

### Missile Data:

Guidance:	wire-guided command optical tracking by sighting line
Propulsion:	solid-propellant motor, 2-stage hollow charge
Warhead:	
Missile diameter	120 mm
Warhead caliber	120 mm
Length, (9M14P1)	865 mm
(9M14P1B1)	890 mm
Fin span	460 mm
Launch weight	11 kg

Missile PM14P1 (or improved 9M14P1B1) is a part of the system comprising the following:

#### a) Manual guidance (MCLOS)

- Portable manual guidance unit PO41LV
- Portable launching box 9P111B1, and
- Missile 9M14P1 or 9M14P1B1

#### b) Semiautomatic guidance (SACLOS)

- Launcher installed on the vehicle
- Guidance system in the vehicle
- Missile 9M14P1 or 9M14P1B1

The missile can be launched from the portable launching box 9P111B1 (also known as the "suitcase" ) in the manual guidance system (MCLOS), or from special, i.e. adapted combat vehicles, in the semi-automatic or manual guidance system

The special vehicles include the one of Russian origin (BRDM-1, BRDM-2, BMP-1, BMD) as well as armored personnel carrier (APC and IFV) of Yugoslav origin (BVP M80A and BVP M80P0).

The French helicopter GAZELLE has been adapted for launching of the missile.

Depending on the variant used, the packing may be in the form of:

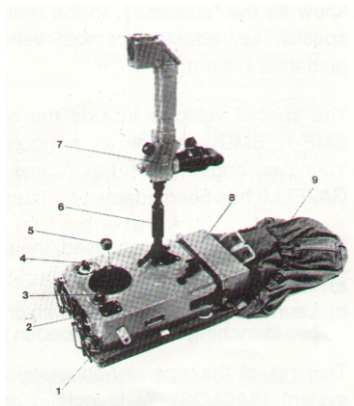
- a) Wooden box with one missile, and
- b) Launching case 9P111B1, with one missile and two launching cases per wooden box.

Training of the operator-shooter is easier in the semiautomatic guidance system(SACLOS).

At launching and during flight the operator tracks the target movement through his reticle and the missile is automatically guided by sighting line.

### GUIDING DESK 9S415

1. Control panel body
2. Launching knob
3. Control lamp
4. Switch
5. Joystick
6. Telescopic sight holder
7. Optical sight
8. Battery
9. Carrying bag



## MALYUTKA 2

### ADVANCED ANTI ARMOUR MISSILE SYSTEM



Intended for antitank fight by neutralizing or destroying armoured vehicles with or without ERA (MALYUTKA 2M and MALYUTKA 2T) and fortified objects and manpower (MALYUTKA 2F).



Three versions of missiles are developed so far:

- Malyutka 2M with HEAT warhead and enhanced penetration capability,
- Malyutka 2T with tandem warhead and
- Malyutka 2F with thermobaric warhead.

Basic characteristics:	MALYUTKA 2M	MALYUTKA 2T	MALYUTKA 2F
Penetration(mm)	800	800+ERA	8kg TNT*
Range(m)	2.800	2.800	2.800
Caliber(mm)	120	120	90
Missile length(mm)	1.097	1.264	968
Weight(kg)	13,4	13,8	13,5
Average flight speed(m/s)	110	110	110

\* TNT equivalent for thermobaric warhead