



Zakłady **Mechaniczne** Tarnów



Self-propelled anti-aircraft artillery and missile system ZSU-23-4MP BIAŁA

The self-propelled anti-aircraft artillery and missile system ZSU-23-4MP BIAŁA is designed to fight low-flying air targets (using 23 mm cannons and Grom missiles) such as: aircraft, helicopters, winged rockets, unmanned flying objects, landing troops and unarmoured and lightly armoured ground targets.

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The ZSU-23-4MP BIAŁA is a modernization of the self-propelled anti-aircraft artillery system ZSU-23-4 SZYŁKA, which significantly improves its combat, tactical and tractional features. The range and efficiency in fighting against air targets were doubled; the response time of the system was also reduced. The work of the system is completely passivized, the service of the system was simplified, which enabled to reduce the crew from four to three soldiers. The system is integrated with anti-air command system. The detection range is 8-10 km, target tracking range is 7-8 km.

Modernization covers following:

- enhancement of moving abilities and range increase
- reduction of the thermal and electromagnetic spectrum of the system
- daptation of undetectable optoelectronic digital Fire Control System, which allows to track the targets all day and night
- providing two double containers for the Grom anti-aircraft missiles, which doubled the range flying targets can be engaged
- adaptation the new, sub-calibre ammunition, which enable to increase the range flying and land targets can be engaged
- elimination of radar, commander and drivers active observation sensors
- new passive optoelectronic-observation head
- significant reduction of thermal radiation, which revealed the set on the battlefield very quickly
- increasing of the target tracking range in the conditions of restricted visibility through the use of the passive infrared tracks
- providing the high-tech digital communications system, which enables the exchange of tactical data with the superordinate anti-aircraft command system



Technical data:

Weapon	4 x 23 mm cannon, 4 x Grom missile launchers
Firing angles	horizontal 360°, vertical from – 4° to +85°
Practical rate of fire	up to 400 rds./min. for one gun
Cannon range: maximal vertical/total/maximal effective for ground targets	1500/2500/2000 m for API and HEI 2000/3000/2500 m for APDS and FAPDS
Maximal range of Grom missiles (m)	5500
Missile firing angle	horizontal 360°, vertical from od 0° to +70°