



Zakłady Mechaniczne Tarnów



AM-35

35mm Naval Gun System

The ship artillery system based on the **AM-35** naval gun is designed for fighting the air targets at very low up to medium altitudes. The system is an effective weapon against UAVs. It can be used also to fight the sea surface targets.

The system consists of the AM-35 automatic gun, the integrated ZGS-158M tracking head, the SHO fire control post and the RSKO backup fire control post.

The open architecture of the system, its modularity and scalability enable to integrate the system into the ships of various classes.

Advantages:

- 35mm caliber, being an optimum resultant of many diverge requirements
- high fire rate
- capability of precise striking
- integrated artillery functionalities
- capability of exchanging data with ship command system
- high level of automatization of the system
- versatile steering and diagnostics circuitry applicable in Land Forces guns



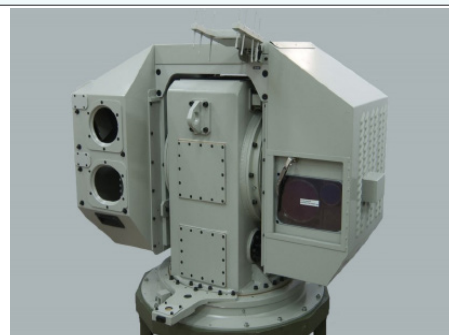
In the **AM-35** naval gun, the 35mm automatic cannon is applied. It is furnished with upgraded dual-sided feeding with linked ammunition supply from two magazines, to allow alternate feeding two types of ammunition, e.g. ABM and FAPDS-T.

Reloading, triggering, the means to program the length of round and choice of the magazine are steered electrohydraulically. Fast exchanged barrel is air-cooled. The gun has its own orientation and inertial navigation system.

Double brushless electronically controlled servomotors of the gun traversing and stabilization subsystems, in azimuth and elevation plane, provide high dynamics and precision of the movements. The newest power engineer electronics solutions, as for instance the supercapacitors, are implemented.

AM-35 Technical Parameters	
Automatic cannon	35mm HSW S.A.
Fire rate	550 rounds per/min
Maximum target altitude	3500 m
Elevation sector	– 10° to +80°
Rotation sector	+/- 175° (depending on carrier)
Dynamic parameters	
– traversing speed max/min.	2 rad/s / 1 mrad/s
– traversing acceleration max	> 2 rad/s ²
– accuracy of traversing	0,5 mrad
Total weight	4300 kg
Weight of rotating part	3300 kg
Length	5500 mm
Width	2616 mm (turret without handles)
Height	2703 mm (with the pedestal of 900 mm height)
Diameter of the circle outlined by the barrel in the neutral position	3500 mm
Capacity of ammo magazines	2 x 100 pcs

ZGS-15M integrated tracking head consists of a termovision camera, a tv daylight camera, a high repetition laser range finder and the IFF IKZ-02 interrogator. The systems of drives in azimuth and elevation provide precise coupling the aiming line of the gun with the sight line of the gun sensors.



ZGS-15M tracking head technical data	
Tracking sector in elevation	–10° to +85°
Tracking sector in azimuth	nx360°
Traversing speed maks. / min.	3 rad/s / 1 mrad/s
Traversing acceleration maks.	4,5 rad/s ²
Positioning accuracy	0,5 mrad
Weight of head	350 kg

SKO Fire Control is designed to integrate the fire control computer, subsystem of fusion of vision signals, videotracker, consoles to control the elements of the system, displays and joystick to control the head and to trigger the gun.

SKO operates in automatic and half-automatic mode.

RSKO Backup Fire Control (optional) is designed to manual localization of target in the case of failure of SKO, or to providing the information on the target to the tracking head in the case of failure of the radar subsystem.