

The logo for PITRADWAR, featuring a stylized blue and white graphic above the company name in a bold, blue, sans-serif font.

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 result 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.

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

**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.



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

**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.