

30mm AK-630M

Automatic Gun Mount



Mission

30mm AK-630M automatic gun mount is designed to engage air and surface targets, such as anti-ship missiles, aircraft, helicopters, other types of air strike weapons, as well as small-size surface ships, drifting mines, and fire emplacements and observed enemy personnel ashore.

It is a turret-type mount remotely controlled by a fire control radar system and a sighting station (backup control post). It features AO-18 automatic gun with a revolving, continuously cooled six-barrel cluster, automatic belt feed, and a breech block mechanism to ram the round and extract the case after the shot.

Features

- Replacement option for the vintage AK-230

shipborne gun mounts;

- Increased ammunition load ready for automatic fire (2,000 rounds in a round-type magazine);
- High rate of fire of AO-18 six-barrel gun with the revolving cluster unit;
- Remote laying by the fire control system and sighting station;
- Fire adjustment and crew training capabilities (fire with practice rounds at target imitators).

Basic specifications

Calibre, mm	30
Max range of fire, m	up to 5,000
Rate of fire, rds/min	up to 5,000
Muzzle velocity, m/s	875
Laying angles, deg:	
elevation	-12... +88
traverse	-180... +180
Ammunition load, rds	2,000 (in a magazine)
Gun mount weight (w/o ammunition load), kg	not more than 1,000



30mm AK-306

Light-Weight Automatic Gun Mount



Mission

30mm AK-306 light-weight automatic gun mount is a close-range weapon system designed for self-defence of warships against aircraft, helicopters and other air strike weapons, as well as for engagement of pin-point surface targets and drifting mines, unsheltered enemy manpower and weapon emplacements ashore. AK-306 is controlled by OPU-1 optical sight.

Features

- Replacement option for vintage AK-230 gun mounts on small-displacement ships;
- AO-18L light-weight six-barrel gun with an electrically-driven revolving cluster;
- Reduced weight of the gun mount (by nearly a half) thanks to light alloys used in load-bearing components, ammunition feed system and protective elements.

Basic specifications

Calibre, mm	30
Target engagement range, m:	
against air targets (slant range)	4,000
against small-size surface/in-shore targets	5,000
Max laying angles, deg:	
traverse	-180... +180
elevation	-12... +85
Rate of fire, rds/min	up to 1,000
Muzzle velocity, m/s	875
Gun mount weight (w/o ammunition), kg	1,100

30mm 2M-3M-1M

Gun Mount with 2A42 Cannon



Mission

30mm 2M-3M-1M gun mount is designed to engage small-size soft-skinned mobile and stationary surface targets such as small-displacement ships and boats, drifting mines, soft-skinned shore-based targets and unsheltered personnel, as well as to repel air attacks.

Composition

- 2A42 automatic gun

- 2E 52-2 type electric drives/stabilisers
- 1P56 optical collimator sight

The upgraded 2M-3M-1M gun mount can be supplied completed with the 3V-89 control system.

Basic specifications

Calibre, mm	30
Rate of fire, rds/min:	
minimum	200-300
maximum	not less than 500
Muzzle velocity, m/s	960
Laying angles, deg, not less than:	
traverse	-150... +150
elevation	-20... +80
Max angular speed, deg/s, not more than:	
laying	30
changeover	50
Effective firing range, km, up to:	
small surface ships/boats	4
floating mine	0.5
soft-skinned shore-based targets and personnel	4
air targets	2
Gun mount weight (w/o ammunition, crew, APU and cables), kg, not more than	1,400
Reaction time, sec:	
automatic mode	5-7
semiautomatic mode	6-8
Target acquisition range, in fair weather, km:	
air targets and small-size surface/shore-based targets	8-14
large surface and shore-based targets	15-20

MEDVEDKA

Small-Size Anti-Submarine Missile System



Mission

Small-size Medvedka ASW missile system is intended for engaging submarines. It can be installed on surface ships displacing 350-plus tonnes.

Basic specifications

Operational range, km:	
maximum	20.5
minimum	1.6
Effective depth, m	16-500
Missile data:	
weight, kg	800
length, m	5.53
diameter, m	0.4
Torpedo data:	
weight, kg	285
calibre, m	0.324
length, m	3.05
Launch position	inclined
Launcher	retractable cluster of 0.44-meter diameter tubes
Number of tubes in each launcher	2/4
Four-tube launcher weight with missiles, t	9.2
Dimensions, four-launcher configuration, stowed position (length x width x height), m	5.8 x 1.9 x 2.4
Launch readiness time (w/o laying), sec	15
Time between launches in a salvo, sec	6
Combat crew:	
fire control operator	1
maintenance personnel	2

Composition

- missiles
- launchers
- fire control system
- ground support equipment

Features

The missile comprises solid-propellant motor, warhead with a flight range control unit, small-size MPT-TUE ASW homing torpedo, release mechanism, stabilisation and parachute retarding system.

Missiles are launched from a non-stabilised launcher with high accuracy thanks to advanced sighting and launch timing procedures. Baseline version is a four-tube modular launcher, but inclined or vertical configurations can be offered on request.

Medvedka ASW missile system can be employed in a wide range of operational conditions: with ambient temperatures from -40°C to +50°C, up to 98% humidity at +35°C, rain, fog, heavy winds (up to 20 m/s), Sea States up to 6.

