



UKRINMASH



ROCKET ARTILLERY WEAPONS
AND SELF-PROTECTION EQUIPMENT



UKROBORONPROM
Ukrainian Defence Industry



CONTENT



- | | | | |
|----|---|----|--|
| 4 | SKIF Man Portable Antitank Missile System | 23 | FORT-17 Pistol |
| 5 | CORSAR Light Portable Missile System | | FORT-21.01 Semi-Automatic Pistol |
| 6 | BARIER Vehicle-Carried Antitank Missile System | | FORT-21.02 Semi-Automatic Pistol |
| 7 | BARIER-V Helicopter Antitank Missile System | | FORT-21.03 Semi-Automatic Pistol |
| 8 | GUIDED MORTAR ARMAMENT SYSTEM | 24 | FORT-500 Shotgun |
| 9 | KVITNYK-E Guided Artillery Projectile
With Laser Semi-Active Homing Guidance | 25 | FORT-401 Machine Gun |
| 10 | STUGNA Round Comprising Antitank Guided Missile | 26 | FORT-301 Sniper Rifle |
| 11 | KOMBAT Round Comprising Antitank Guided Missile | 27 | FORT-600(A) Grenade Launcher |
| 12 | KONUS Round Comprising Antitank Guided Missile | | PSUZV Firearm Sound Suppression Device |
| 13 | FALARICK 90 Round Comprising Antitank
Guided Missile | 28 | FORT 12 SERIES Traumatic Pistols |
| | FALARICK 105 Round Comprising
Antitank Guided Missile | | FORT 18R Traumatic Pistol |
| 14 | ROUND COMPRISING ANTITANK GUIDED MISSILE | 29 | FORT 14R Traumatic Pistol |
| 15 | SURFACE-TO-AIR GUIDED MISSILE | | FORT 17R Traumatic Pistol |
| 16 | KM-7.62 Machine Gun | 30 | AKMS-F, AKMT-F Assault Rifles |
| | KT-7.62 Tank Machine Gun | 31 | AKS-74 F Assault Rifle |
| 17 | DSHK-M Upgraded Machine-Gun | | COMPENSATOR FOR ASSAULT RIFLES AKM/AK |
| | MACHINE FOR FILLING CARTRIDGE BELTS | 32 | FORT-ARS Antiriot Shield |
| 18 | RPG-7 Grenade Launcher | | FORT-ARSA Antiriot Shield |
| | UAG-40 Automatic Grenade Launcher | 33 | SH-307 Helmet |
| 19 | GP-25 Underbarrel Grenade Launcher | | KS-1 Blast Engineer Suit |
| | UPK-23-250 Gun Pod | 34 | STRAZH M-TT Bullet-Proof Vest |
| 20 | KBA-117 Automatic Grenade Launcher | | MODULE 6K Bullet-Proof Vest |
| | ZTM-1 / ZTM-2 Automatic Machine Gun | | ESKORT 6K Bullet-Proof Vest |
| 21 | M-60 Mortar | 35 | ESKORT 3 Bullet-Proof Vest |
| | KBA48M 82 mm Mortar | | ESKORT VV Bullet-Proof Vest |
| | M120-15 Mortar | | ESKORT 3P Bullet-Proof Vest |
| 22 | FORT-12 Pistol | 36 | KROVOSPAS Chemical Hemostatic Devices |
| | FORT-14TP Pistol | | |
| | FORT-14PP Pistol | | |



UKRINMASH - 25 YEARS AT THE INTERNATIONAL MARKET

The State Self-Supporting Foreign Trade and Investment Firm «Ukrinmash» which is the participant of the State Concern «UkrOboronProm», operates at the international market since 1991.

The aim of the Firm is to implement the interests of Ukraine in the field of military-technical cooperation with foreign partners. «Ukrinmash» has built reliable business connections with countries from every part of the world. The key mission is service excellence, reliability and customer satisfaction.

«UKRINMASH» OFFERS:

- ▶ Export of weapons and military products in the field of armoured military vehicles, aircraft engineering, shipbuilding industry, radar ammunition and air defence, as well as rocket artillery weapons.
- ▶ Transfer of technologies and know-how, including the development of military factories and MRO centers.
- ▶ Maintenance, repair / overhaul and upgrade of military equipment.
- ▶ Training of foreign military personnel.
- ▶ Import of weapons and military products to Ukrainian Army and all other military and defence structures.
- ▶ R&D, investment and other partnership opportunities.
- ▶ Disposal, demilitarization of the old military equipment and territory demining.
- ▶ Marketing, advertising and intermediary services.

For the last few years Ukrainian Defence Industry has been in the stage of transformation into a highly effective structure. This process is taking place due to new technologies, products, innovations, efficient management and top-professionals who have come into this field. Today we are offering the new armament business culture, customer oriented, flexibility and personal approach.

We represent Ukrainian Enterprises of the State Concern «Ukroboronprom» which employ more than 80 thousand people, and the products of other Ukrainian enterprises. Ukraine is a reliable partner who exports the defence products to many countries of the world. The potential for development of the Ukrainian Military Industrial Sector is a tremendous one who is only at the beginning of its realization and prospects.

We suggest the widest product range in the field of aviation, armour, radio, artillery, as well as ship building and rocket industry, etc.

Ukraine makes part of prestigious club of the countries which has mastered the closed cycle in aircraft building, radio intelligence and radio-electronic warfare, whereas the Ukrainian export potential is among the best 10 in the world.

SE «Ukrinmash» is a unique special exporter and integrator which makes an important part of the Ukrainian Military Industrial Sector honored to be your reliable partner. We are proud that SE «Ukrinmash» is one of the most experienced and one of the biggest export-import companies of Ukraine which has been working in the armament and military hardware market for more than 25 years.

We present you our products range as well as services in repairing, upgrading, joint promotion of the products and cooperation in the military markets. SE «Ukrinmash» is not only reacting to the state of the market but initiates trends in the world market. For nowadays, SE «Ukrinmash» is making a new history of the military industry of Ukraine.



MAN PORTABLE ANTITANK MISSILE SYSTEM SKIF

“Skif” Man Portable Antitank Missile System is intended to destroy man power, stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour), as well as pinpoint targets like weapon emplacements, tank in a trench, light-armoured objects and helicopters. The system’s feature lies in its possibility to aim the missile on a target from closed emplacements and shelters that reduces the risk of the gunner destruction by reply fire attack of the enemy. The system is completed with 130mm and 152mm missiles in transport and launching containers with tandem hollow-charge (RK-2S, RK-2M-K) and high-explosive fragmentation (RK-2OF, RK-2M-OF) warheads.

MAIN PERFORMANCE DATA		
	RK-2S, RK-20F	RK-2M-K, RK-2M-OF
FIRING RANGE, M:		
- at daytime	100-5 000	100-5 500
- at night time	100-3 000	100-3 000
Flight time at maximum range, s	not more than 25	
Guidance system	by laser beam with target tracking in automatic mode	
WARHEAD:		
- tandem hollow-charge, armour penetration behind ERA, mm	not less than 800	not less than 1 100
- high-explosive fragmentation with EFP, armour penetration, mm	not less than 60	not less than 120
Weight of missile in container, kg	29,5	38
OVERALL DIMENSIONS, MM:		
- missile caliber	130	152
- container length	1360	1435
- container outer diameter	140	162
WEIGHT, KG:		
- launcher	32	
- guidance device	15	
- remote control	10	
- thermal imager	6	
Operating temperature range, °C	from - 40 to +60	



LIGHT PORTABLE MISSILE SYSTEM CORSAR

“Corsar” Light Portable Missile System is intended to destroy stationary and moving modern armoured targets and other objects with combined, carried or monolithic armour, including ERA (explosive reactive armour), as well as pinpoint targets such as weapon emplacements, tank in a trench, light-armoured objects and helicopters. Firing can be carried out from the mount as well as from a trench parapet.

MAIN PERFORMANCE DATA	
WARHEAD:	
- tandem hollow-charge, armour penetration behind ERA, mm	not less than 550
- high-explosive fragmentation with EFP, armour penetration, mm	not less than 50
- thermobaric	
WEIGHT, KG:	
- launcher	9,2
- mount	6,3
- missile in container	15,4
OVERALL DIMENSIONS, MM:	
- missile calibre	107
- container length	1 180
- container outer diameter	113
Operatin temperature range, °C	from - 40 to +60



Maximum firing range, m
2 500



Flight time at maximum range, s
12



Missile caliber, mm
107



Guidance system
SEMI-AUTOMATIC BY LASER BEAM



VEHICLE-CARRIED ANTITANK MISSILE SYSTEM BARRIER

“BARRIER” Vehicle-Carried Antitank Missile System is mounted on a turret of a fighting vehicle (like ICV or APC) and is designed to destroy stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour), as well as pinpoint targets such as weapon emplacements, a tank in a trench, light-armoured objects and helicopters.

MAIN PERFORMANCE DATA	
WARHEAD:	
- tandem hollow-charge, armour penetration behind ERA, mm	not less than 800
- high-explosive fragmentation with EFP, armour penetration, mm	not less than 60
WEIGHT, KG:	
- missile in container	29,5
- guidance device	14,6
OVERALL DIMENSIONS, MM:	
- missile caliber	130
- container length	1 360
- container outer diameter	140
Operating temperature range, °C	from - 40 to +60



Maximum firing range, m
5 000



Flight time at maximum range, s
23



Missile caliber, mm
130



Guidance system
SEMI-AUTOMATIC BY LASER BEAM



HELICOPTER ANTITANK MISSILE SYSTEM BARRIER-V

“BARRIER-V” Helicopter Antitank Missile System is intended for upgrade of Mi-24 helicopters, consists of an antitank guided missile in transport and launching container, laser control channel in optical and aiming station. System is designed to destroy stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour) as well as pinpoint targets such as weapon emplacements, a tank in a trench, light-armoured objects and helicopters.

MAIN PERFORMANCE DATA	
WARHEAD:	
- type	tandem hollow-charge
- armour penetration behind ERA, mm	not less than 800
OVERALL DIMENSIONS, MM:	
- missile caliber	130
- container length	1 917
- container outer diameter	140
Operating temperature range, °C	from - 40 to +60



Maximum firing range, m
7 500



Weight of missile in container, kg
47



Missile caliber, mm
130



Guidance system
BY LASER BEAM WITH
TARGET TRACKING IN AUTOMATIC MODE



GUIDED MORTAR ARMAMENT SYSTEM

Guided mortar armament system comprising 120-mm high-precision guided mine for combat use from the 2B11 mortar is designed to destroy modern armoured and unarmoured, moving and stationary equipment as well as pinpoint engineering structures.

MAIN PERFORMANCE DATA

Guided mine weight, kg	28,7
Guided mine length, mm	1 490
Warhead type	high-explosive fragmentation
Mine control system (on the terminal part of the trajectory)	laser semiautomatic homing
Operating temperature range, °C	from - 40 to +60

THE SYSTEM INCLUDES:

120-mm high-precision guided mine

laser target designator range-finder that ensures targets detection, monitoring and identification on location, their spherical coordinates measurement (range, position and elevation angles) and designation by method of laser illumination of the target

shot synchronization system that provides "Fire" command transmission for automatic switching on of the laser target designator range-finder illumination mode with a specified delay

installable device that provides initial data input into the guided mine control system

radio stations that ensure digital and vocal connection between the observation station and the firing post



Maximum firing range, m
1 000 - 7 500



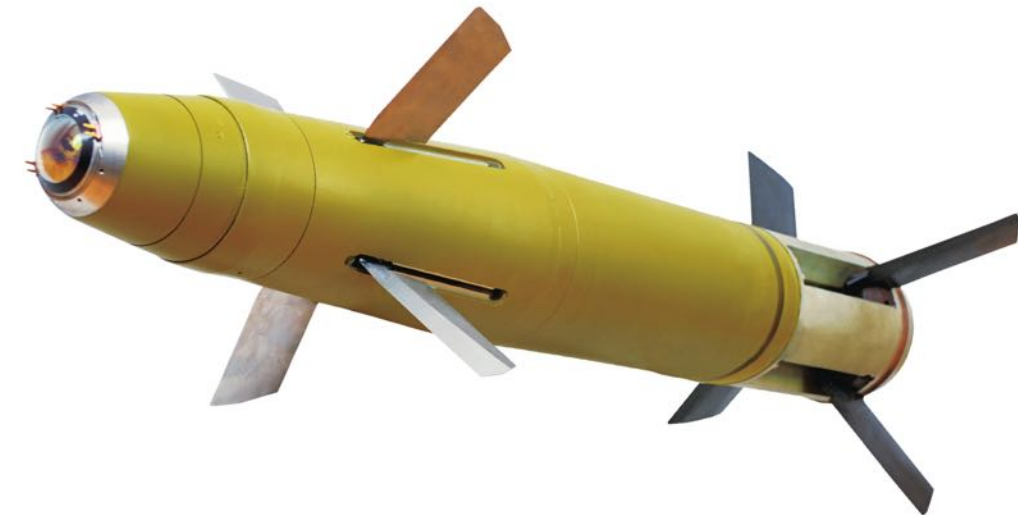
Flight time at maximum range, s
23



Miss Guided mine caliber, mm
120



Target hit probability
0.75-0.80



GUIDED ARTILLERY PROJECTILE WITH
LASER SEMI-ACTIVE HOMING GUIDANCE

KVITNYK-E

MAIN PERFORMANCE DATA

Combat part type	high-explosive fragmenting
Weight of explosives, kg	not more than 8
Weight of projectile, kg	not more than 52
Operating temperature range	from -40 to +50 °C

Projectile of «Kvitnyk» type is designed for high-precision defeat of the various targets at fire from artillery system as a part of a system of guided artillery arms.

«Kvitnyk» is designed for effective defeating of: tanks, IFVs, armored vehicles, multiple rocket launchers, self-propelled artillery systems, artillery pieces, both on the move and stationary, located in the open or in pits, command, control, communications centers, bridges, crossings, defensive fortifications, surface targets (combatant, landing or transport ships) etc. with a high probability by one shot.



Maximum firing range, m
20 000



Length, mm
1 250



Missile caliber, mm
152 (155)



ROUND COMPRISING ANTITANK
GUIDED MISSILE

STUGNA

Round Comprising Antitank Guided Missile is intended to destroy, while firing from the tank T-55 or antitank artillery gun MT-12, stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour), as well as against pinpoint targets like weapon emplacements, tank in a trench, light-armoured objects and helicopters.



MAIN PERFORMANCE DATA

WARHEAD:	
- type	tandem hollow-charge
- armour penetration behind ERA, mm	not less than 550
Round weight, kg	not more than 24.5
OVERALL DIMENSIONS, MM:	
- missile caliber	100
- round length	1 196
Operating temperature range, °C	from - 40 to +60



Maximum firing range, m
5 000



Flight time at maximum range, s
16.8



Missile caliber, mm
100



Guidance system
SEMI-AUTOMATIC BY LASER BEAM



ROUND COMPRISING ANTITANK
GUIDED MISSILE

KOMBAT

Round Comprising Antitank Guided Missile is intended for firing from tanks T-80UD, T-84, T-72, upgraded T-64 against stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour), and also against pinpoint targets like weapon emplacements, tank in a trench, light-armoured objects and helicopters.



MAIN PERFORMANCE DATA

WARHEAD:	
- type	tandem hollow-charge
- armour penetration behind ERA, mm	not less than 750
Round weight, kg	not more than 30.45
OVERALL DIMENSIONS, MM:	
- missile caliber	125
- main part length	675
- tail part length	408
Operating temperature range, °C	from - 40 to +60



Maximum firing range, m
5 000



Flight time at maximum range, s
16.3



Missile caliber, mm
125



Guidance system
SEMI-AUTOMATIC BY LASER BEAM



ROUND COMPRISING ANTITANK GUIDED MISSILE KONUS

Round Comprising Antitank Guided Missile is intended to destroy, firing from tanks T-84-120, T-72-120, stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour), and also against pinpoint targets like weapon emplacements, tank in a trench, light-armoured targets and helicopters.



MAIN PERFORMANCE DATA

WARHEAD:	
- type	tandem hollow-charge
- armour penetration behind ERA, mm	not less than 700
Round weight, kg	28
OVERALL DIMENSIONS, MM:	
- missile caliber	120
- round length	1 074
Operating temperature range, °C	from - 40 to +60



Maximum firing range, m
5 000



Flight time at maximum range, s
16.3



Missile caliber, mm
120



Guidance system
SEMI-AUTOMATIC BY LASER BEAM



ROUND COMPRISING ANTITANK GUIDED MISSILE FALARICK 90

Round Comprising Antitank Guided Missile is intended for firing from the LCTS90 weapon system gun against stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour), and also against pinpoint targets like weapon emplacements, tank in a trench, light-armoured targets and helicopters.

MAIN PERFORMANCE DATA

Maximum firing range, m	4 000
Flight time at maximum range, s	14
Guidance system	semi-automatic by laser beam
Warhead	tandem hollow-charge
Armour penetration behind ERA, mm	not less than 550
Round weight, kg	20.05
OVERALL DIMENSIONS, MM:	
- missile caliber	90
- round length	977
Operating temperature range, °C	from - 40 to +60

ROUND COMPRISING ANTITANK GUIDED MISSILE FALARICK 105

Round Comprising Antitank Guided Missile is intended for firing from the CT-CVTM weapon system gun against stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour), and also against pinpoint targets like weapon emplacements, tank in a trench, light-armoured targets and helicopters.



MAIN PERFORMANCE DATA

Maximum firing range, m	4 000
Flight time at maximum range, s	14
Guidance system	semi-automatic by laser beam
Warhead	tandem hollow-charge
Armour penetration behind ERA, mm	not less than 550
Round weight, kg	20.05
OVERALL DIMENSIONS, MM:	
- missile caliber	90
- round length	977
Operating temperature range, °C	from - 40 to +60



ROUND COMPRISING ANTITANK GUIDED MISSILE

Round Comprising Antitank Guided Missile is intended for firing from the armoured vehicle BMP-3 against stationary and moving modern armoured targets with combined, carried or monolithic armour, including ERA (explosive reactive armour), and also against pinpoint targets like weapon emplacements, tank in a trench, light-armoured targets and helicopters.

MAIN PERFORMANCE DATA

WARHEAD:	
- type	tandem hollow-charge
- armour penetration behind ERA, mm	not less than 550
Round weight, kg	21.6
OVERALL DIMENSIONS, MM:	
- missile caliber	100
- round length	1 180
Operating temperature range, °C	from - 40 to +60



Maximum firing range, m
5 500



Flight time at maximum range, s
20



Missile caliber, mm
100



Guidance system
SEMI-AUTOMATIC BY LASER BEAM



SURFACE-TO-AIR GUIDED MISSILE

Surface to Air Guided Missile (SAGM) is designed to destroy with high-explosive fragmentation action manned and unmanned means of air attack that are flying at both subsonic and supersonic speeds on the collision and pursuit courses. SAGM defeats targets by day and by night, under any aspect angle at front and aft hemisphere of a target, under ordinary and adverse weather conditions, under manoeuvrable counteraction of the enemy.

MAIN PERFORMANCE DATA

SAGM maximum speed, m/s	850
SAGM maximum normal overload, g	25
SAGM launch weight, kg	140
SAGM WEIGHT, KG:	
- SAGM with transport and launching container	180
- warhead	18
LENGTH, MM:	
- SAGM	3 160
- transport and launching container	3 235



Range, km
1.5 - 20



Altitude, km
0.025 - 10



SAGM caliber, mm
130/260



Guidance system
RADIO COMMAND



MACHINE GUN

KM-7.62

The machine gun is designed to defeat enemy personnel and technical resources, as well as to engage aerial targets.

KM reduced weight by 1.5 kg and simple to use, compared to the original Kalashnikov machine gun.



MAIN PERFORMANCE DATA

Cartridge, mm	7.62x54
Muzzle velocity, m/s	825
Rate of fire, shots/min	650
Sighting range, m	1 500
Sight angle	-10°/+20°
Feeding	belt with 100, 200, 250 rounds
Length, mm	1 173
Barrel length, mm	645
Rifling	4 grooves (right)
Weight of machine gun, kg	9
Weight of machine tool 6T5, kg	4.5

TANK MACHINE GUN

KT-7.62

The machine gun is used as an auxiliary weapons on aircraft and other military equipment.



MAIN PERFORMANCE DATA

Cartridges, mm	7.62x54
Muzzle velocity, m/s	855
Rate of fire, rounds/min	800
Feed system	belt with 100, 200 and 250 cartridges
Effective firing range, m	2 000
Length, mm	1 098
Barrel length, mm	722
Rifling	4 grooves (right)
Barrel weight, kg,	3.23
Weight of box with belt, kg	8



UPGRADED MACHINE GUN

DSHK-M

The machine gun is intended for employment against aerial and ground-based targets. The machine gun is fed with ammunition by means of a belt loaded with 50 cartridges. The cartridge belts are placed into boxes. The live cartridges for firing from the DShK-M machine gun are used with a B-32 armour-piercing incendiary bullet, as well as with a BZT armor-piercing incendiary traicing armour-piercing bullet.



MAIN PERFORMANCE DATA

Caliber, mm	12.7
Length, mm	1 588
Weight, kg	35.7
Rate of fire, shots/min	550
Practical rate of fire, rounds/min	100
Sight range of firing by means of a K10-T, m	3 500
LAYING ANGLES, DEG	
- in azimuth	360
- in elevation	82
Feeding	belt for 50 cartridges
Cartridge	12.7x107
Barrel length, mm	1 070
Rifling	4 grooves (right)

MACHINE FOR FILLING CARTRIDGE BELTS

The machine for filling cartridge belts machine gun 7.62 mm, 12.7 mm, the ANC, NSV caliber guns and 23 mm and 30 mm.



GRENADE LAUNCHER

RPG-7

RPG-7 grenade launcher - is a reloadable hand-held antitank grenade launcher designated to eliminate different types of armoured vehicles: tanks, self-propelled artillery guns, armoured personnel carriers, etc. Besides that it is effective against enemy manpower covering inside a light field shelters or buildings and to combat low-flying targets.



MAIN PERFORMANCE DATA

Caliber, mm	40
Weight, g	6 300
Length, mm	950
Direct shot distance, m	up to 700
Aiming distance, m	up to 550
Armour-piercing, mm	up to 750
Grenade weight, kg	2 - 4.5
Initial grenade velocity, m/s	112 - 145
Warhead caliber, mm	40 - 105

UNDERBARREL GRENADE LAUNCHER

GP-25



MAIN PERFORMANCE DATA

Caliber, mm	40
Overall length, mm	320
Weight unloaded, kg	1,5
Effective range, m	100 - 400

GP-25 has been adopted for usage with both 7.62mm AKM and 5.45mm AK-74 Kalashnikov assault rifles. GP-25 uses the 40mm fragmentation grenades VOG-25, VOG-25P, and a less-lethal 'Gvozd' (Nail) canister round with tear gas. On the GP-25, sight is mounted on the left side of the launcher, and had additional indirect firescale for firing at longer ranges (up to 400 meters). Grenade launcher is issued with rubber recoil pad for itself rifle. The barrel of single-shot launcher is rifled. Grenades are loaded from the muzzle and held in the barrel by a spring catch.

AUTOMATIC GRENADE LAUNCHER

UAG-40

The automatic grenade launcher with 40 mm rounds is intended for firing against enemy's infantry, light-armoured vehicles and protected shelters.



MAIN PERFORMANCE DATA

Calibre, mm	40
Fire rate, shot/min	40
Length, mm	960
Height, mm	210
Weight (without grenade), kg	17
Weight with tripod kg	33
The number of rifles, pcs:	
- at the beginning of tube	8
- at the middle of tube	16
- at the end of tube	24
Grenade launching speed, m/sec	242 +/-6
Maximum shooting range, m	2 200

GUN POD

UPK-23-250



MAIN PERFORMANCE DATA

Armament	23 mm automatic gun GSh-23L
Ammunition capacity	250 rounds
Weight, kg	
- fully-loaded pod	218
- automatic gun with ammunition	145
- empty pod	70
Length, mm, without gun	2 990
Width, mm	340
Height, mm	400
Service life	25 years, 6 000 shots

Gun pod UPK-23-250 with automatic gun GSh-23L is intended for siting, transportation and shooting at air and ground targets (manpower, light armoured targets as aircrafts, automobile vehicles, radars, etc.).

Delivery aircrafts: MiG-21, MiG-23, Su-22, helicopters: Mi-24, Mi-8, Mi-17 of each modifications.



AUTOMATIC GRENADE LAUNCHER

KBA-117

The automatic grenade launcher is designed to defeat enemy's manpower and fire weapons located in the open terrain or entrenched. It is used in a combat module mounted on lightly armoured vehicles (ICVs, APCs, etc.).



MAIN PERFORMANCE DATA

Caliber, mm	30
Muzzle velocity, m/s	185
Rate of fire, shots/min	400
Length, mm	840
Minimum high-angle fire range, m	1 000
Maximum ordinate of a trajectory, m	905
Belt load-capacity, garnets	29
Weight without belt, kg	18
Weight of loaded belt, kg	14.5

AUTOMATIC MACHINE GUN

ZTM-1 ZTM-2

It is designed for fighting against light armored targets at distance up to 2 000 m, ATMS mounts, non-armoured means and enemy's manpower at the distances up to 4 000 m, as well as against air low-flying targets with altitudes up to 2 000 m. Gun firing may be realized both single shoots and bursts.



MAIN PERFORMANCE DATA

	ZTM-1	ZTM-2
Caliber, mm	30	
Number of rifles	16	
Projectile muzzle velocity, m/sec	960 (+30/-10)	
Gun weight, max, kg	86	115
Barrel weight, max, kg	37	38,5
Gun length: max, mm	3006	3027
Firing rate, min, rds/min	330	330
Return intensification, kN	60	40-50
Voltage supply of electro-startup from source of direct current, W	27 (+2, -5)	
Electro-startup input current, not more than, A	14,2	
Gun feed two belted	two belted	

MORTAR

M-60

The mortar is designed to defeat manpower and enemy's facilities, especially those located outside the shelter: in trenches, gullies and at reverse hill slopes. The M-60 is employed with high-explosive bombs, bombs with aerodynamic configuration, including NATO standards.



MAIN PERFORMANCE DATA

Caliber, mm	60
Firing range, m	50 - 3 500
Laying angles, deg	+45...+85
Target velocity, not less than, rounds/min	10
Maximum velocity, not less than, rounds/min	25
Weight with the mount, kg	20
Sight MPM-44M, pcs	1
Crew	2

82 MM MORTAR

KBA48M

The mortar is designed to defeat manpower and enemy's facilities, especially those located outside the shelter: in trenches, gullies and at reverse hill slopes, to destroy fortifications. To be used in reacting special units and infantry units of Land Forces.



MAIN PERFORMANCE DATA

Caliber, mm	82
Weight, kg (KBA48M)	51
Weight, kg (KBA48M1)	46
Rate of fire, shots/min	10-15
Firing range, m	100 - 4 000
Laying angles, deg	+45...+85
Crew	3

MORTAR

M120-15

The mortar M120-15 is a smoothbore rigid system, charging is carried out from muzzle which is intended to defeat manpower and enemy's facilities. The fuse from double charging and rear sight MUM 706 M are installed on the muzzle part



MAIN PERFORMANCE DATA

Weight in firing position, kg	210
Rate of fire, rds/min	12
Firing range, m	7 100



PISTOL
FORT-12

MAIN PERFORMANCE DATA		
Calibre, mm	9 mm Browning kurz	9 mm Makarov
Overall length	180	180
Weight with empty \ loaded magazine, kg	0.83/0.95	0.83/0.95
Muzzle velocity of bullet, m/s	320	305
Effective range, m	50	50
Rate of shooting rounds/min	40	40
Magazine capacity	12	12



PISTOL
FORT-14TP

Pistol "Fort-14TP" with extended barrel (device for lowering sound level and tactical light can be fixed)

MAIN PERFORMANCE DATA		
Calibre, mm	9 mm Makarov	9 mm Makarov
Overall length	210	210
Weight with empty \ loaded magazine, kg	0.95/1.07	0.95/1.8
Muzzle velocity of bullet, m/s	335	335
Effective range, m	50	50
Rate of shooting rounds/min	50	50
Magazine capacity	14	24



PISTOL
FORT-14PP

Pistol "Fort-14PP" (designed for more powerful cartridge cal. 9 mm Luger)

MAIN PERFORMANCE DATA	
Calibre, mm	9 mm Luger
Overall length	218
Weight with empty \ loaded magazine, kg	0.95/1.07
Muzzle velocity of bullet, m/s	370
Effective range, m	25
Rate of shooting rounds/min	50
Magazine capacity	16

Pistol "Fort-17" (parts are manufactured with high quality polymer reinforced by steel)

MAIN PERFORMANCE DATA		
Calibre, mm	9 mm Browning kurz	9 mm Makarov
Overall length	180	180
Weight with empty \ loaded magazine, kg	0.68/0.96	0.68/0.9
Muzzle velocity of bullet, m/s	300	320
Effective range, m	50	50
Rate of shooting rounds/min	40	40
Magazine capacity	16	15



PISTOL
FORT-17



SEMI-AUTOMATIC PISTOL
FORT-21.01

MAIN PERFORMANCE DATA	
Calibre, mm	9 mm Luger
Overall length	192
Weight with empty \ loaded magazine, kg	1.06/1.34
Muzzle velocity of bullet, m/s	330
Effective range, m	50
Rate of shooting rounds/min	40
Magazine capacity	16



SEMI-AUTOMATIC PISTOL
FORT-21.02

MAIN PERFORMANCE DATA	
Calibre, mm	9 mm Luger
Overall length	192
Weight with empty \ loaded magazine, kg	0.82/0.9
Muzzle velocity of bullet, m/s	330
Effective range, m	50
Rate of shooting rounds/min	40
Magazine capacity	16

Semi-automatic pistol "Fort-21.03" with extended barrel

MAIN PERFORMANCE DATA	
Calibre, mm	9 mm Luger
Overall length	207
Weight with empty \ loaded magazine, kg	0.87/1.15
Muzzle velocity of bullet, m/s	330
Effective range, m	50
Rate of shooting rounds/min	40
Magazine capacity	16



SEMI-AUTOMATIC PISTOL
FORT-21.03



SHOTGUN FORT-500

“Fort 500” series are the pump action smoothbore shotguns of 12/76 mm caliber with manual reloading. Shot guns are equipped with set of Picatinny rails for installing of tactical accessories (reflex sights, lighters, grips, laser sights) also to the barrel can be attached special devices for shooting gas grenades and lock breaking. It is possible to fire the ammunition of special purposes – signal cartridge, pyrotechnic cartridge, and cartridge with rubber bullet or buckshot. The receiver of pump action shotgun can be manufactured of high quality polymer, which can significantly lightens construction of short gun.

MAIN PERFORMANCE DATA				
	FORT-500AS	FORT-500MS	FORT-500M1S	FORT-500TS
Caliber, mm	12/76			
Operation mode	Pump-action			
Overall length, mm	510	345	345	510
DIMENSIONS				
- length with butt-stock folded, mm	1 010	878	845	1 042
- length with butt-stock extended, mm	750	780	585	940
Weight with an empty magazine, kg	4,1	4,1	4,3	4,0
Magazine capacity, pcs.	6	4	4	6
Trigger pull, kgf	2.5-3.5			
Type of butt-stock	Metallic folding	Telescoping	Metallic folding	Telescoping



MACHINE GUN FORT-401

MAIN PERFORMANCE DATA		
	5.56x45	7.62x5—1
Caliber, mm	5.56x45	7.62x5—1
Operation mode	Gas action on piston head	
Dimensions, mm	1020x275x92	680x245x135
Length with butt-stock folded, mm	970	730-819
Barrel length with muzzle compensator, mm	330	419-508
Weight with unloaded magazine, kg	8.1	8.1
Magazine capacity, pcs.	150	100
Trigger pull, kgf	4,0-5,0	
Muzzle velocity, m/s	915	850
Accuracy range, m	500	1 000
Rate of fire shots/min	800-1000	
Resource of barrel, shots	20 000	10 000
Rifling	6 grooves	

“Fort-401” – light machine gun of 5,56x45 mm intended to increase infantry firepower and meets all requirements of modern warfare. “Fort-401” can be fired either from hands and bipod or from various transport mounts. “Fort-401” is an air-cooled light machinegun. It features quick-detachable barrels, with two barrel sizes available standard and short. “Fort-401” has dual feed system, so it can alternatively use standard disintegrating belts or detachable box magazines. Belts of 150 round capacity can be used either itself or fed soft assault drum.



SNIPER RIFLE FORT-301

Sniper rifle "Fort-301" of 7.62x51 mm caliber is semiautomatic weapon intended to hit targets at great distance with high accuracy. It embodies simple and reliable design with easy operating. Standard accessories include: Side-folding butt-stock, 6x optical sight and folding bipod.

MAIN PERFORMANCE DATA

WARHEAD:

tandem hollow-charge, armour penetration behind ERA, mm	not less than 550
high-explosive fragmentation with EFP, armour penetration, mm	not less than 50
thermobaric	

WEIGHT, KG:

launcher	9,2
mount	6,3
missile in container	15,4

OVERALL DIMENSIONS, MM:

missile calibre	107
container length	1 180
container outer diameter	113
Operatin temperature range, °C	from minus 40 to +60



GRENADE LAUNCHER FORT-600(A)

Grenade launchers "Fort-600" "Fort-600-A" are designed for shooting by ball grenades (high-explosive, concussion, hollow charge and others) with the aim of defeat the live targets and fire objects at a distance from 50 to 400 m and for shooting by non-lethal ammunition. The butt-stock of this model is equipped with a rubberized butt plate, which greatly absorbs the recoil energy of the weapon.

MAIN PERFORMANCE DATA

Caliber, mm	40	
Working ammunition	Low speed grenades of caliber 40x46 mm (HE M6P, TPT M6P, HEDP M7) and other grenades of cal. 40x46 mm NATO	
Trigger mechanism	Double action only (DAO)	
Dimensions with extended butt-stock, mm	580x196x54	670x196x54
Dimensions with folded butt-stock, mm	365x196x87	365x196x89
Barrel length, mm	280	
Maximum firing range, m	400	
Weight without grenade, kg	2.2	2.8
Type of butt-stock	plastic side-foldin	telescope side-folding

FIREARM SOUND SUPPRESSION DEVICE

PSUZV



Firearm sound suppression devices (PSUZV) tested in accordance with MIL-STD-1474D and provide hearing safe sound reduction level, remove muzzle flash, significantly lower recoil and muzzle jump. Apart from low flash and sound signature, use of PSUZV reduce dust/snow particles lifting, allow voice communication between operators and «friend or foe» identification.

MAIN PERFORMANCE DATA

WEAPON	CALIBER	ATTACHMENT TYPE	DIMENSIONS, MM	MATERIAL	WEIGHT, KG
Pistol	9x19	TH 13x1	35x220	Aircraft aluminum	0.32
Assault rifle	5.56x45	1/2x28	38x210	Stainless steel	0.54
Sniper rifle	7.62x51	TH 18x1	43x240	Stainless steel	0.7
Machine gun	7.62x54R	18x1.5L	43x240	Stainless steel	0.7



TRAUMATIC PISTOL

FORT 12 SERIES

Pistols «Fort-12» of 9 mm Makarov caliber became classic in its category. The pistol has fully metal construction and considered quite heavy as compared to modern plastic models of similar caliber. However, this attribute can be consider as assets of the pistol, as fully metal construction makes it long-life in operation and stable while shooting. The pistol also produced for cartridge cal. 9 mm kurz. Optionally pistol can be equipped with sound suppressor.



MAIN PERFORMANCE DATA

Caliber, mm	9 mm P.A./ .45 Rubber
DIMENSIONS (MM)	
- overall length	180
- height	131
- width	32
Weight with empty magazine, kg	0.83
Muzzle velocity, m/s	300
Magazine capacity (rds)	14 (9 mm P.A.) / 8 (.45 Rubber)
Practical rate of shooting	40

TRAUMATIC PISTOL

FORT 18R

«FORT 18R» – traumatic pistol of 9 mm P.A. caliber intended for self defense of civilians. Design features of this model are extended barrel which increases accuracy, massive slide which reduces recoil, reduced weight due to polymer frame and interchangeable back straps enabling to fit the grip size to the shooter's hand.



MAIN PERFORMANCE DATA

Caliber, mm	9 mm P.A./ .45 Rubber
DIMENSIONS (MM)	
- overall length	207
- height	131
- width	34
Weight with empty magazine, kg	0.71
Muzzle velocity, m/s	320
Magazine capacity (rds)	13 (8)
Practical rate of shooting	40

TRAUMATIC PISTOL

FORT 14R

«FORT 14R» – traumatic pistol of caliber 9 mm P.A. intended for self-defense of civilians. Due to extended barrel and extended sight radius «FORT 14R» assures necessary accuracy even with rapid firing. Metal frame provides additional rigidity in design of the gun and increases service life of pistol.



MAIN PERFORMANCE DATA

Caliber, mm	9 mm P.A./ .45 Rubber
DIMENSIONS (MM)	
- overall length	207
- height	140
- width	33
Weight with empty magazine, kg	0.86
Muzzle velocity, m/s	320
Magazine capacity (rds)	15 (8)
Practical rate of shooting	40

TRAUMATIC PISTOL

FORT 17R

«FORT 17R» – traumatic pistol of 9 mm P.A. caliber intended for self defense of civilians. This model has frame made of highly durable plastic reinforced by steel – as result it has reduced weight which is important for every day carrying. As the combat «FORT 17» this pistol has interchangeable back straps enabling to fit the grip size to the shooter's hand.



MAIN PERFORMANCE DATA

Caliber, mm	9 mm P.A./ .45 Rubber
DIMENSIONS (MM)	
- overall length	180
- height	132
- width	34
Weight with empty magazine, kg	0.68
Muzzle velocity, m/s	300
Magazine capacity (rds)	13 (8)
Practical rate of shooting	40



⚡ UPGRADE



ASSAULT RIFLES AKMS-F, AKMT-F

During upgrade of Kalashnikov assault rifles AK-47 and AKS-74 in order to increase tactical characteristics of the basic model such parts are mounting, as gas tube with Picatinny rail for mounting optical or reflex sights, ergonomic pistol grip and forearm with bipod or fore grip. Besides, to decrease climb of barrel during serial fire muzzle compensator is mounted.

MAIN PERFORMANCE DATA		
	AKMS-F	AKMT-F
Caliber, mm	7.62x39 mm	
Operation mode	Gas action on piston head	
Dimensions, mm	890x265x85	980x265x85
Length with butt-stock folded, mm	640	880
Weight with unloaded magazine, up to, kg	3.3	3.15
Magazine capacity, rounds	30	
Rifling	4 grooves	
Type of butt-stock	down-folding	telescoping



ASSAULT RIFLE AKS-74 F

In order to increase tactical characteristics of the basic model during upgrade of Kalashnikov assault rifles AK-47 and AKS-74, such parts are mounting, as: gas tube with Picatinny rail for mounting optical or reflex sights, ergonomic pistol grip and forearm with bipod or fore grip. Besides, to decrease climb of barrel during serial fire muzzle compensator is mounted.

MAIN PERFORMANCE DATA

Caliber, mm	5.45 x39 mm
Operation mode	Gas action on piston head
Dimensions, mm	920x190x82
Length with butt-stock folded, up to, mm	660
Weight with unloaded magazine, up to, kg	3,4
Magazine capacity, rounds	30
Rifling	4 grooves
Type of butt-stock	telescopic, telescopic folding, metallic folding

COMPENSATOR FOR ASSAULT RIFLES AKM/AK



MAIN PERFORMANCE DATA

Caliber, mm	7.62x39	5.45x39
Length up to, mm	92	82
Diameter up to, mm	27	27
Weight up to, kg	0,145	0,096
Mounting thread	M14x1LH	M24x1.5

Compensator is adapted for assault rifles AKM /AK in caliber 7.62/5.45 mm. In fact, it operates as a flash cover, muzzle brake and compensator synchronically. The first camera is like a flash cover and muzzle brake compensating tossing barrel up and right by reactive force of powder gases directed through a nozzle in the first chamber. The second camera used for compensating impact, sending the powder gases in opposite directions so that their total impulse reached zero. Depending on the style of shooting, stands and grip, compensator can show excellent result.

ANTIriot SHIELD

FORT-ARS

The antiriot shield is made of a polycarbonate sheet giving maximum vision, lightness and long durability, with the protection against UV-radiation, 10 year guarantee. There is a shock-absorber with a grip and a belt on the inner side of the shield. Handgrip and arm fastening may be quickly rearranged and it permits to use the shield by left and right hands. In accordance with the consumers order an inscription can be done at the front side of the shield and a polycarbonate sheet will protect it.



MAIN PERFORMANCE DATA

Height, mm	1 000
Width, mm	550
WEIGHT, KG:	
- at polycarbonate sheet thickness 3 mm	3.3
- at polycarbonate sheet thickness 4 mm	4

ANTIriot SHIELD

FORT-ARSA

The antiriot aluminum shield is designed for protection of police officers against stones and sticks while performing their duties. The shield is made of high-quality aluminum alloy. There are two handles glazed with plastics and two absorbers, which allow using the shield by left or right hand or by both hands simultaneously.



MAIN PERFORMANCE DATA

Height, mm	1 000
Width, mm	670
Thickness of the sheet, mm	2
Weight, kg, not more than	3.8

HELMET

SH-307

The Sh-307 helmet is intended to provide head protection in the conditions of mass riots, as well as to protect from sticks and stones blows. The helmet body includes: visor for face protection, or collar for neck protection.
► Weight, kg – 1.4



BLAST ENGINEER SUIT

KS-1

The shot-firer's protective suit is used during laying and discovering explosives and mine clearing. The suit consists of a jacket, trousers and boots which are available in three typical sizes. It is stocked with removable «visor» with bullet-proof glass (2nd class of protection) and «Kaska (Helmet) – 1» bullet-proof Kevlar Head-Piece. The suit is designed with an electrostatic charge relieving device. Weight, up to, kg – 30. Metal armour elements improving the protection level are additionally placed in them jacket (the neck, breast and groin parts) and trousers (the shin, and hip parts). The item guarantees protection against being hit by F-I, RGD-5 grenades, a 240g TNT blasting cartridge within one meter distance. The ballistic fabric armour pockets had underwent testing at the Du Pont Industrial Fibre Certified Laboratory /USA/ in accordance with the STANA G 2920 International Testing System.



BULLET-PROOF VEST

STRAZH M-TT

Flexible (soft) armour, aramid or polyethylene –UD, which provides protection against:

- ▶ 9 mm Makarov (9x18) FMJ SSC; V=330+10 m/s (APS)
- ▶ 9 mm Luger (9x19) FMJ SC; V=430+10 m/s
- ▶ 7.62 mm TT FMJ SSC (7,62x25 SSC); V=430+15 m/s (TT)



MAIN PERFORMANCE DATA

Area of protection, dm ²	20-36
Weight no more than, kg	2.6

BULLET-PROOF VEST

MODULE 6K

Flexible (soft) armour IIIA NIJ Standard, polyethylene –UD, which provides protection against:

- ▶ 9 mm Makarov (9x18) FMJ SSC; V=330+10 m/s (APS)
- ▶ 9 mm Luger (9x19) FMJ SC; V=395+10 m/s
- ▶ .357 Magnum JSP; V=435+10 m/s



MAIN PERFORMANCE DATA

Area of protection, dm ²	46
Weight no more than, kg	8.2

BULLET-PROOF VEST

ESKORT 6K

Two ceramic plates (front – 250x300 mm and back – 250x300 mm) of a rectangular form, single curve, which provide protection against:

- ▶ 7.62 mm AKM FMJ SSC (7,62x39 SSC); V=730+15 m/s (AKM)
- ▶ 5.45 mm AK-74 FMJ SSC (5,45x39 SSC); V=910+15 m/s (AK-74)
- ▶ 7.62 mm SVD FMJ SSC (7,62x51 SSC); V=850+15 m/s (SVD)
- ▶ 7.62 mm AKM BZ (7,62x39 AP); V=730+15 m/s (AKM; BZ)
- ▶ 7.62 mm SVD B-32 (7,62x51 AP); V=850+15 m/s (SVD; B-32)

The bullet proof vest is equipped with a damper.



MAIN PERFORMANCE DATA

Area of protection, dm ²	15
Weight no more than, kg	6.0

BULLET-PROOF VEST

ESKORT 3

Two metal plates of a rectangular form, multi curve, which provide protection against:

- ▶ 7.62 mm TT FMJ SSC (7,62x25 SSC); V=430+15 m/s (TT)
- ▶ 7.62 mm AKM FMJ SSC (7,62x39 SSC); V=730+15 m/s (AKM)
- ▶ 5.45 mm AK-74 FMJ SSC (5,45x39 SSC); V=910+15 m/s (AK-74)

The bullet proof vest is equipped with anti-ricochet protection and damper.



MAIN PERFORMANCE DATA

Area of protection, dm ²	15/18
Weight no more than, kg	10.0

BULLET-PROOF VEST

ESKORT VV

Two metal plates (front and back) of a rectangular/ trapezoidal form, multi curve, which provide protection against:

- ▶ All types of cold weapon

The bullet proof vest is equipped with a damper.



MAIN PERFORMANCE DATA

Area of protection, dm ²	18/2
Weight no more than, kg	1.7

BULLET-PROOF VEST

ESKORT 3P

Two polyethylene-UD plates of a rectangular form, multi curve, which provide protection against:

- ▶ 7.62 mm TT FMJ SSC (7,62x25 SSC); V=430+15 m/s (TT)
- ▶ 7.62 mm AKM FMJ SSC (7,62x39 SSC); V=730+15 m/s (AKM)
- ▶ 5.45 mm AK-74 FMJ SSC (5,45x39 SSC); V=910+15 m/s (AK-74)

The bullet proof vest is equipped with a damper.



MAIN PERFORMANCE DATA

Area of protection, dm ²	15
Weight no more than, kg	6.0



CHEMICAL HEMOSTATIC DEVICES

KROVOSPAS

The CHD KROVOSPAS is primarily aimed for quick stop of massive (critical) bleeding at battlefield - at the stage of providing self, mutual and unskilled first premedical and medical care. Individual soldier medical kit, field kits and medical vehicles could be equipped with the CHD KROVOSPAS. Application of the hemostatic does not require special medical knowledge and skills, and each soldier can be trained in a short course (lasting about 2 hours).

The devices are completely safe, it do not require preparation before use, checks of personal compatibility, further special medical supervision in terms of warfare, at the tactical phase of evacuation and in mobile combat hospitals. It stops bleeding from major vessels at the levels of world standards (QuikClot, Celox), thus further assistance, treatment and surveillance are carried out at the stage of skilled care.



“UKRINMASH”

36, Dehtiarivska str.,

Kyiv, 04119, Ukraine

Tel.: +38(044) 461-92-75

+38(044) 483-36-56

Fax: +38(044) 461-92-73

info@uim.kiev.ua

www.ukrinmash.com/en/