



**SpetsTechnoExport**

**NEW TIME - TECHNOLOGY**

***Ladies and Gentlemen,***

The State Foreign Trade Enterprise «SpetsTechnoExport» was established in July 1998. It specializes on export and import of military and special products, services, technologies and weapons. It also renders services on repair, modernization and maintenance of the equipment, offers modern prospective know-how and technical documentation developed by various research centers and design bureaus of the military-industrial complex of Ukraine.

# «YATAGAN» MAIN BATTLE TANK

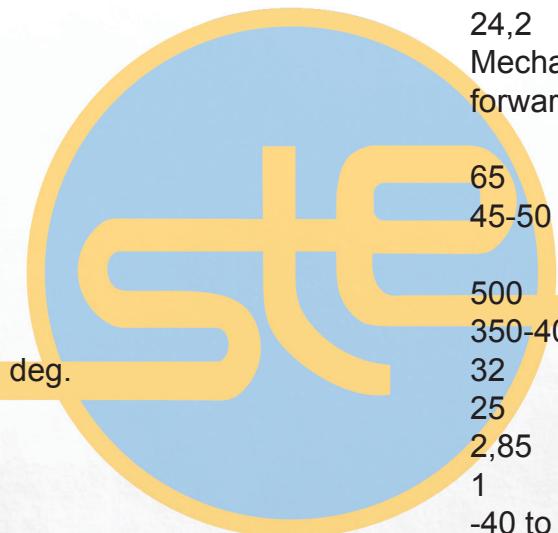


The Yatagan MBT is equipped with a 120 mm gun and an automatic loader placed in the turret bustle, which enable it to fire NATO standard ammunition. The tank can engage ground, floating and low-speed air targets by day and at night at distances of up to 3 km (by conventional ammunition) or 5 km (by guided missiles) within the temperature range of -40 to +55 degrees Centigrade under any climatic conditions. Protection of the tank is provided by passive composite armour, new-generation explosive reactive armour and defensive aids suite. The tank is fitted with a navigation system, auxiliary power unit, air conditioning system and self-entrenchment device.

# «YATAGAN» MBT

## BASIC CHARACTERISTICS

Combat weight, tons	48
<b>Overall dimensions, mm:</b>	
Length (gun forward)	9664
Length (gun backward)	7705
Width (over tracks)	3595
Width (with skirts)	3775
Height (turret roof)	2215
Height (including roof-mounted 12,7mm MG)	2760
Ground clearance	515
Crew, pers.	3
<b>Mobility characteristic:</b>	
Engine type	Model 6TD-2 two-stroke, multi-fuel, liquid-cooled 6-cylinder diesel engine, fuel injected, developing 1200 hp at 2600 rpm
Engine power, h/p	1200
Power-to-weight ratio, hp/t	24,2
Type of transmission	Mechanical, epicycle train with 7 forward and 5 reverse gears
Maximum speed, km/h:	
- on road	65
- off road	45-50
Distance range, km:	
- on road	500
- off road	350-400
Maximum angle of gradient, deg.	32
Side slope, deg.	25
Ditch width, m	2,85
Vertical obstacle, m	1
Operation temperature, C°	-40 to +55
<b>Armament:</b>	
<b>Gun:</b>	
Caliber, mm	120
Ammunition allowance, pcs.	40 (22 in automatic loader)
<b>Machine gun:</b>	
Caliber, mm	7,62
Ammunition allowance, pcs.	4000
<b>Anti-aircraft machine gun:</b>	
Caliber, mm	12,7
Ammunition allowance, pcs.	450



# «OPLOT» MAIN BATTLE TANK



Tank BM "OPLOT" is a combat vehicle with the following features:

- powerful armament with ability of firing the APDSFS, HE-FRAG and HEAT rounds as well as guided missiles,
- reliable protection of up-to-date active and dynamic systems,
- weapon system that enables carrying out the combat operations by day and night under various weather conditions,
- a power pack that ensures mobility of the tank under the hot dusty
- conditions as well as in mountains at the heights up to 3,000 m.

The tank is easy to study, reliable in operation and ensures fulfilment of combat missions at the up-to-date level.

# «OPLOT» MBT

## BASIC CHARACTERISTICS

48,5 +3%

<b>Combat weight, tons</b>	9 664/7 705
<b>Overall dimensions, mm:</b>	3 595/3 775
Length gun forward/gun backward	2 215/2 760
Width over tracks/with skirts	515
Height turret roof/including roof-mounted 12,7mm MG	3
Ground clearance, mm	
Crew	
<b>Mobility characteristic:</b>	
Engine type	Model 6TD-2 diesel
Engine power, h/p	882 Kw(1200 hp)
Power-to-weight ratio hp/t	24,7
Type of transmission	Mechanical, epicycle train with 7 forward and 5 reverse gears
Maximum speed km/h:	
- on road	70
- on terrain	45
- reverse	30
Distance range, km:	
- on road/off road	450/350
Maximum angle of gradient, deg.	32
Side slope, deg.	25
Ditch width, m.	2,85
Vertical obstacle, m.	1
Operation temperature, C	-40 to +55
<b>Armament:</b>	
<b>Main gun:</b>	KBA-3 smoothbore gun
Caliber mm/Ammunition allowance pcs.	125/40
<b>Coaxial gun:</b>	KT 7,62 (PKT)
Caliber mm/Ammunition allowance pcs.	7,62/1 250
<b>Anti-aircraft machine gun:</b>	NSVT12,7
Caliber mm/Ammunition allowance pcs.	12,7/450
<b>Gunner's day sight:</b>	1G46M
Field-of-view stabilization	vertical/horizontal
Magnification	2,7-12
Gunner's thermal imaging sight	"Buran-Catherine"
Field-of-view stabilization	vertical/horizontal
Range, m at least:	
Detection	12 000
Recognition	5 000
Identification	2 500
<b>Commander's panoramic sight</b>	PNK-6
Channel type	Visual, thermal channel of the laser range-finder
Angles of laying the stabilized line of sight, deg. at least	
Elevation/Depression	17/65
Thermal channel, m at least	
Detection range	11 800
Recognition range	4 700
Identification range	2 500
Laser range finder, m:	
Target ranging limits	200-9 500
Target ranging error	Within±5
<b>Accuracy of determining the own vehicle coordinates (mean error), m:</b>	
NAVSTAR	40
ГЛОНАСС	30
NAVSTAR/ГЛОНАСС	20
Number of pre-determined routes/waypoints	10/50
<b>Fording, m:</b>	
Without preparation/with preparation	1,8/5

Fire control system makes it possible to deliver effective fire at any illumination at any weather from both the gunners and commanders operation places. The guided missile can be fired at ranges up to 5 000 m with the hit probability of 0.8. The LIO-V navigation support system makes possible to do the following:  
determine the own vehicle coordinates;  
collect information about the subordinate vehicles location;  
ensure the route along the pre-determined marks;  
transmit and receive coded messages through the radio channel.



# «BULAT» MAIN BATTLE TANK



In order to increase the efficiency of T-64 main battle tanks which are in service with the Ukrainian army, the Kharkiv Morozov Machine Building Design Bureau has developed a comprehensive tank upgrade package.

The package includes measures to enhance mobility characteristics, protection level and fire control efficiency. It is possible to upgrade the tanks in any areas in any combination according to the Customer's request.

It is possible to install additional equipment: auxiliary power unit, power pack thermal protection, quick-response fire suppression system, airconditioning system, KBA-3 gun etc.

# «BULAT» MBT

## BASIC CHARACTERISTICS

Status	before modernization		after modernization	
	T-64	T-64B	Variant of modernization 1	Variant of modernization 2
Combat weight, tons	38	42,5	45	45,5
<b>Mobility characteristic:</b>				
Engine power, h/p	700	700	850	1 000
Power-to-weight ratio, hp/t	18,4	16,5	19	22
Maximum speed, km/h:				
- on road	60,5	60,5	60,5	65
- off road	35-45	24-33	35-45	40-45
Fuel consumption cross country, g/hp-h:	300-450	300-450	300-450	280-350
<b>Protection level:</b>				
against chemical attack weapons	1	1	2	2
against kinetic attack weapons	1	1	1,45	1,45
<b>Fire power:</b>				
Firing effective range, m				
at day	1 700	2 000	2 500	2 500
at night	600	600	1 500	1 500
Hit probability when firing the guided missile at a distance of 5 000 m.	-	-	0,8	0,8
Firing the anti-aircraft machine gun at ground targets ability for the commander	no	no	yes	yes
<b>Climatic operation features:</b>				
Operation temperature, C°	to 40	to 40	to 40	to 55
Periodicity of air cleaner maintenance, km	350-400	350-400	up to 1 000	up to 1 000

# BTR-3E, -3E1 ARMoured Personnel Carrier Specifications

## BTR-3E1 Armoured Personnel Carrier



### BASIC CHARACTERISTICS

#### Vehicle type

Wheeled, armoured, amphibious  
16 / 16,5

Length

7650

Width

2900

Height

2860

Ground clearance, mm

375

Crew

3

Troops

6

Number of firing ports

5

#### Mobility characteristic:

Wheel arrangement

8x8

Engine type

UTD-20 (diesel)/Deutz

BF6M 1015 (diesel)  
300 / 326

18,7 / 19,7

Mechanical/automatic

85 / 95

50

10

Distance range, km:

850

- on road

500

- off road

30

- afloat

25

Maximum angle of gradient, deg.

2,0

Side slope, deg.

0,5

Ditch width, m.

from -40 to +55

Vertical obstacle, m.

6

Operation temperature, Co

Towing force on the winch, tons

#### Armament:

##### Gun:

ZTM-1

Caliber, mm

30

Ammunition allowance, pcs.

400

##### Machine gun:

KT (PKT)

Caliber, mm

7,62

Ammunition allowance, pcs.

2000

##### Grenade launcher:

AG-17

Caliber, mm

30

Ammunition allowance, pcs.

87

##### Anti-tank guided missile:

"Barrier"

Ammunition allowance, pcs.

4

##### Additional equipment:

Biplanar, electromechanical

Weapon stabilizer

Electromechanical

Aiming drives of the weapon system

TV, day-and-night with integrated

Sighting system "Track"

laser range finder, 2 control panels

Panoramic observation system 360 deg.

"Panorama"

Firefighting system

Automatic

Air conditioner/heater kW

10/18

Radio-communication equipment

At the demand of the customer

# BM-3 «SHTURM» COMBAT MODULE

# BM-3 «SHTURM» COMBAT MODULE SPECIFICATIONS



## Armament:

### Gun:

Caliber, mm  
Ammunition allowance, pcs.

### Machine gun:

Caliber, mm  
Ammunition allowance, pcs.

### Grenade launcher:

Caliber, mm  
Ammunition allowance, pcs.

### Anti-tank guided missile:

Ammunition allowance, pcs.

### Fire control system, complete with:

Weapon stabilizer  
-Type

-Type TV(or TV&IR)

- Number of control channels  
Panoramic observation system

ZTM-1 or 2A72
30
400
KT or PKT
7,62
2000
AG-17
30
87
"Barrier"
4

Biplanar, electromechanical "Track" Sighting System day-and-night, with integrated laser rangefinder  
1 or 2  
"Panorama"

# BTR-4 ARMoured PERSONNEL CARRIER

# BTR-4 DESIGN FEATURES LAYOUT



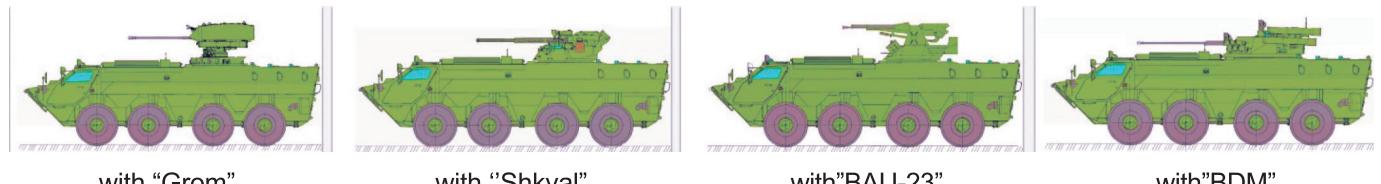
BTR-4 armoured personnel carrier is an 8x8 amphibious wheeled armoured vehicle intended to transport personnel of mechanized infantry units and to provide fire support for these units in combat operations. The BTR-4 is intended to equip mechanized infantry units that can fulfill operations under various combat conditions, including NBC environment.



Design is based on a modular structure selected to give the maximum flexibility for multi-purpose operation



# BTR-4 ARMoured PERSONNEL CARRIER



with "Grom" combat module      with "Shkval" combat module      with "BAU-23" combat module      with "BDM" combat module

Vehicle type	Wheeled, four-axle, all-wheel drive, closed, armoured, amphibious				
Combat module	w/o	"Grom"	"Shkval"	"BAU-23"	"BDM"
Combat weight, tons:					
-with anti-bullet protection	17,5	19,3	19	18	20
-with additional protection	21,9	23,7	23,4	22,4	24,4
Overall dimensions, mm					
Length	7760				
Width	2932				
Height	Depending on the combat module				
Ground clearance	475				
Crew	2	3	3	3	3
Troops	10	8	6	8	7
Number of firing ports	4				
Mobility characteristic:					
Wheel arrangement	8x8				
Type of tires	Tubeless, bulletproof, with central pressure control				
Engine type	Diesel				
Engine power, h/p	Possible version: 400-600				
Power-to-weight ratio hp/t:					
-with anti-bullet protection	28,6	25,9	26,3	27,8	25
-with additional protection	25	21,7	21,4	22,3	20,5
Type of transmission	Automatic or hydro-mechanical, with two-sides connection axles				
Maximum speed, km/h:					
- on road	100				
- off road	60				
- afloat	10				
Fuel consumption ltr/100 km					
- on road	70..90				
- off road	150				
Distance range, km	Minimum				
- on road	500..600				
- off road	400..500				
Maximum angle of gradient, deg.	30				
Side slope, deg.	25				
Ditch width, m.	2,0				
Vertical obstacle, m.	0,5				
Operation temperature, °C	-40 to +55				
Towing force of the winch, tons	9				
Armament:					
Gun:	-	ZTM-2	ZTM-1(2A72)	2A7M	ZTM-2(2A42)
Q-ty & caliber, mm	-	1x30	1x30	2x23	1x30
Ammunition allowance, pcs.	-	360	360	400	360
Machine gun:	-	KT-7,62	PKT	KT-7,62	KT-7,62
Caliber, mm	-	7,62	7,62	7,62	7,62
Ammunition allowance, pcs.	-	1200	2000	2000	2000
Grenade launcher:	-	AG-17	AG-17	-	AG-17
Caliber, mm	-	30	30	-	30
Ammunition allowance, pcs.	-	150	87	-	150
Anti-tank guided missile:	-	Konkurs	Konkurs	-	Konkurs
Ammunition allowance, pcs.	-	4	2	-	2
Additional equipment:					
Weapon stabilizer	Biplanar, electromechanical				
Aiming drives of the weapon system	Electromechanical				
Sighting system "Track"	TV day-and-night with integrated laser range finder, 2 control panels				
Panoramic observation system 360° deg.	"Panorama"				
Firefighting system	Automatic				
Air conditioner/heater, kW	10/18				
Radio-communication equipment	At the demand of the customer				

# ARMoured PERSONNEL CARRIER BTR-4 WITH BM-7 PARUS WEAPON STATION



The weapon station is equipped with armament system including 30mm automatic gun, 7.62mm co-axial machine gun, 30mm automatic grenade launcher, anti-tank guided missiles system installed on the platform stabilized in two planes. Weapon station is equipped with optical-television sight system. Information is displayed on the gunner's and commander's monitors arranged on working stations of armoured vehicle chassis. Remote-controlled system and outside combat module provides enhanced protection of the inhabitants, better conditions in the inhabited compartments (weapon station is outside that avoids gas contamination).

# BM-7 «PARUS» COMBAT MODULE SPECIFICATIONS

# BTR-7 ARMoured PERSONNEL CARRIER

## Armament:

**Gun:** ZTM-1 or 2A72

Caliber, mm 30

Ammunition allowance, pcs. 300

**Machine gun:** KT or PKT

Caliber, mm 7,62

Ammunition allowance, pcs. 2000

**Grenade launcher:** AG-17

Caliber, mm 30

Ammunition allowance, pcs. 149

**Anti-tank guided missile:** "Barrier"

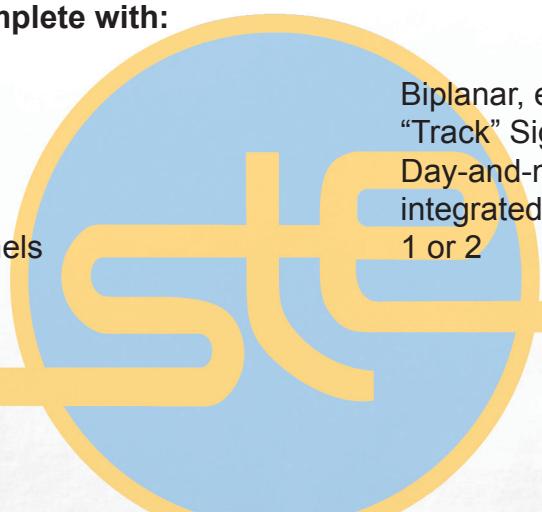
Ammunition allowance, pcs. 4

**Additional equipment:** «LINKY» self-screening system

## Fire control system, complete with:

### Weapon stabilizer

- Type Biplanar, electromechanical "Track" Sighting System Day-and-night, with integrated laser rangefinder
- Type TV(or TV&IR) 1 or 2
- Number of control channels



Vehicle type Wheeled, AWD, armored, amphibious

12,3

Combat weight, tons 7 535

2 800

Overall dimensions, mm: Length 2 235

Width

Height 490

Ground clearance, mm 3

Troops 7

Number of firing ports 7

Mobility characteristics:

Wheel arrangement 8x8

Engine type FPT IVECOTector (EURO 3), diesel, four-cylinder, in-line

300 (2x150)

Engine power, h/p 24,4

200 000

Type of transmission Mechanical six speed

Maximum speed, km/h:

- on road 100

- off road 60

- afloat 10

Distance range, km:

- on road 860

- off road 500

Maximum angle of gradient, deg. 30

Side slope, deg. 25

Ditch width, m 2,0

Vertical obstacle, m 0,5

Operation temperature, C° from -40 to +55

Towing force on the winch, tons 6

**Armament:**

Machine gun: KPV

14,5

Caliber, mm 500

PKT

Caliber, mm 7,62

1500

Ammunition allowance, pcs. AG-17/UAG-40

30/40

Grenade launcher: 87

"Barrier"

Caliber, mm 2+2

Ammunition allowance, pcs.

Additional equipment:

Weapon stabilizer

Aiming drives of the weapon system

Sighting system "Track"

Panoramic observation system 360 deg.

Firefighting system

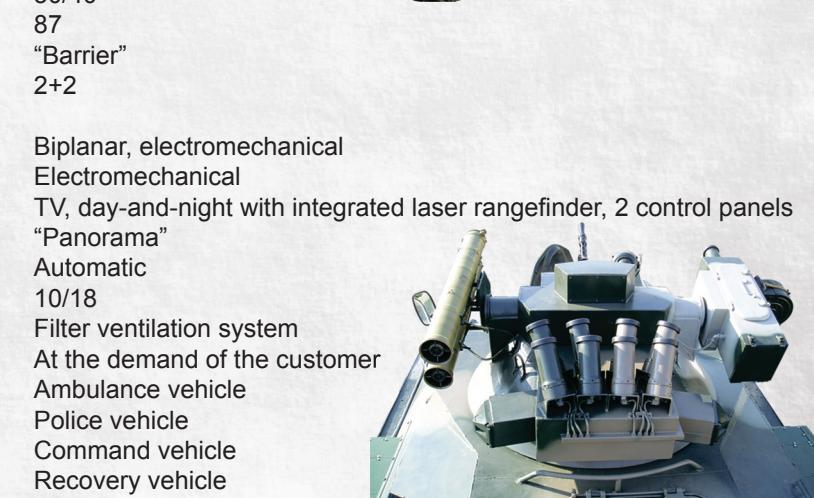
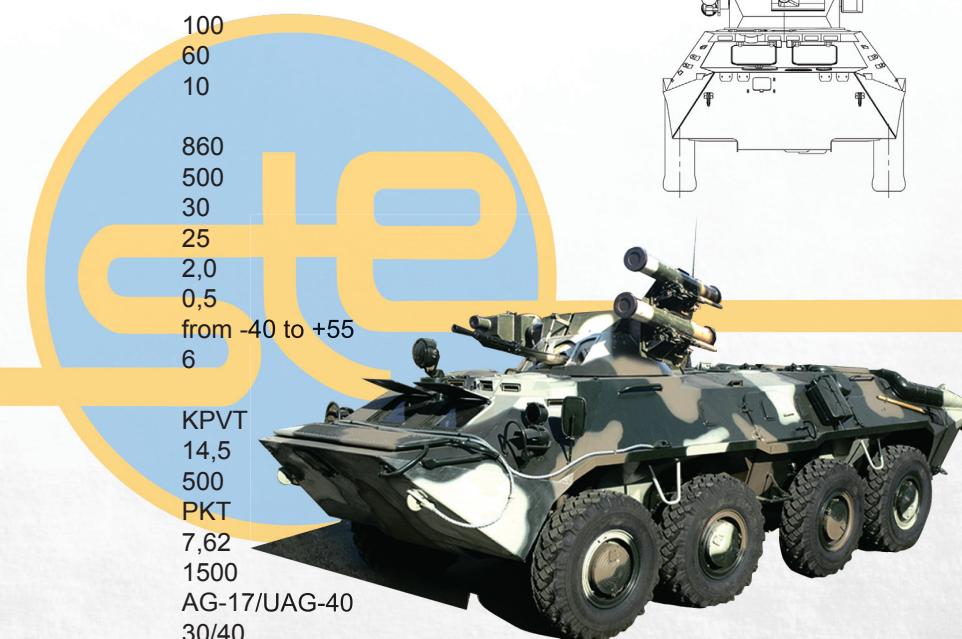
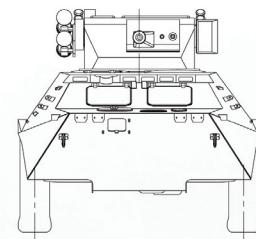
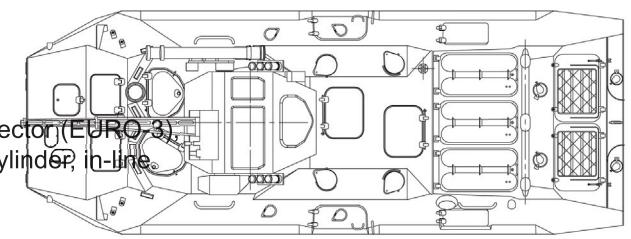
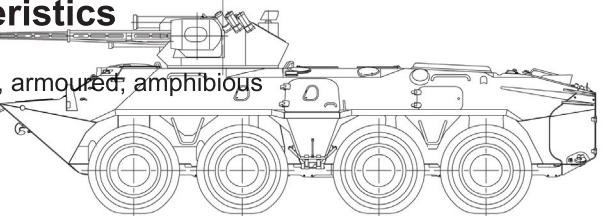
Air conditioner/heater, kW

NBC protection

Radio-communication equipment

Available configuration

## Basic characteristics



# «DOZOR-B» ARMOURED PERSONNEL VEHICLE



DOZOR-B armoured personnel carrier is a version of multi-purpose wheeled vehicle. It is designed to transport goods and people and to provide protection against small arms and NBC factors.

DOZOR-B is suitable for usage by special units and police forces as a vehicle or carrier for different types of armament and military equipment. It can be used during both military and peacekeeping operations, moving on highways and cross-country terrains. This vehicle is available in the following modifications:

- armoured personnel carrier
- armoured vehicle
- NBC reconnaissance vehicle
- command vehicle
- ambulance
- reconnaissance vehicle
- general purpose vehicle

# «DOZOR-B» ARMOURED PERSONNEL VEHICLE

## Basic characteristics

Vehicle type	Wheeled, armoured
Combat weight, tons	6,9
<b>Overall dimensions, mm</b>	
Length	5400 (without the winch) 5680 (with the winch)
Width	2400
Height	2700
Ground clearance	400
Crew, men	3
Troops, men	8
Number of firing ports	6
<b>Mobility characteristic:</b>	
Wheel arrangement	4x4
Type of tires	Tubeless, bulletproof, with central pressure control
Engine type	DEUTZ BF 4M 1013 FC (EURO-3), four-cylinder diesel turbocharged engine with intercooler
Engine power, kW (h/p)	112 (197)
Power-to-weight ratio hp/t	28,5
Type of transmission	Automatic, hydro-mechanical 1000LCT
Maximum speed, km/h:	
- on road	90-105
- off road	65
Distance range, km:	
- on road	1000
- off road	700
Maximum angle of gradient, deg.	30
Operation temperature, C°	-40/+50
Towing force of the winch, tons	6,8
<b>Armament:</b>	
<b>Machine gun (remote control):</b>	NSVT
Caliber, mm	12,7
Ammunition allowance, pcs.	450
Traverse, deg.	360
Elevation, deg.	-3 to +68
<b>Additional equipment:</b>	
NBC system	Filtering and ventilating unit
Navigation system	Satellite SN-3003 Bazalt
Air cooling system capacity, kW	4,4
IR night vision system range, m	180
Radio ultra-short wave communication system range, km	20

# «KOZAK» MULTIFUNCTIONAL ARMOURED VEHICLE



Armoured vehicle "Kozak" 5,5 tons has the engine power of 176 h/p and in the equipped condition is capable to tow the trailer with weight up to 4 tons. It is capable to overcome obstacles more than 35 degrees and ford depths up to 1,5 meters without preparation. The V-type bottom is capable to stand the explosion of mines. And the modular design of the crew compartment enhances the crew survivability. The design allows to vary a degree of protection by replacement of panels' thickness, depending on the combat mission of the armoured vehicle. AV "Kozak" has the GPS-navigator, the NBC reconnaissance equipment, the parking video equipment, the climate control system, ABS and improved noise and light isolation.

# «KOZAK» MULTIFUNCTIONAL ARMOURED VEHICLE



- Possible variants:
- Command vehicle;
  - Special operations vehicle;
  - Patrol/reconnaissance vehicle;
  - Ambulance vehicle;
  - Cargo/repair/maintenance vehicle.

Vehicle type	Wheeled, armoured
Combat weight, tons	5,5
<b>Overall dimensions, mm</b>	
Length	5900
Width	2150
Height	2300
Ground clearance, mm	570
Crew, men	2
Troops, men	8
Number of firing ports	6
<b>Mobility characteristic:</b>	
Wheel arrangement	4x4
Type of tires	Tubeless, bulletproof, self inflating
Engine type	IVECO four-cylinder diesel turbocharged engine with intercooler, EURO 4
Engine power, kW (h/p)	130(176)
Power-to-weight ratio, hp/t	32,0
Type of transmission	ZF, mechanical, synchronized, 6+1
Maximum speed, km/h:	
- on road	120
- off road	70
Distance range, km:	
- on road	1 000
- off road	700
Maximum angle of gradient, deg.:	
- approach	50
- departure	45
- side slope	25
Operation temperature, C°	-40/+50
Towing force of the winch, tons	6,8
<b>Armament:</b>	
<b>Machine gun:</b>	NSVT
Caliber, mm	12,7
Ammunition allowance, pcs.	450
<b>Machine gun:</b>	
Caliber, mm	7,62 PKT (KT)
Ammunition allowance, pcs.	2500
<b>Automatic grenade launcher:</b>	AG-17/UAG-40
Caliber, mm	30/40
Ammunition allowance, pcs.	150
<b>Additional equipment:</b>	
Additional floor protection	3 kg TNT equivalent
Amortization seats	
Radiation detection unit	
Rare image camera	
Communication equipment "Driver-street"	
Radio ultra-short wave communication system	
Climate control system	
Navigation system	

# LIGHT MULTI-PURPOSE TRACKED VEHICLE MT-LBMSh



## BM «SHKVAL» COMBAT MODULE SPECIFICATIONS

<b>Armament:</b>	
Gun:	ZTM-1 or 2A72
Caliber, mm	30
Ammunition allowance, pcs.	400
<b>Machine gun:</b>	KT or PKT
Caliber, mm	7,62
Ammunition allowance, pcs.	2000
<b>Grenade launcher:</b>	AG-17/UAG-40
Caliber, mm	30/40
Ammunition allowance, pes.	87
<b>Anti-tank guided missile:</b>	"Barrier"
Ammunition allowance, pcs.	4
<b>Fire control system, complete with:</b>	
Weapon stabilizer	Biplanar, electromechanical
-Type	"Track"
	Sighting System day-and-night, with integrated laser rangefinder
-Type TV(or TV&IR)	1 or 2
- Number of control channels	

# LIGHT MULTI-PURPOSE TRACKED VEHICLE MT-LBMSh

## Basic characteristics

<b>Vehicle type</b>	Tracked, bulletproof, floating
<b>Combat weight, tons</b>	12,5
<b>Overall dimensions, mm:</b>	
Length	6454
Width	2850
Height	2480
Ground clearance	395-415
Crew	3
Troops	7
<b>Mobility characteristics:</b>	
Engine type	diesel
Engine power, h/p	330-360
Power-to-weight ratio, hp/t	28
Type of transmission	mechanical
Maximum speed, km/h:	
- on road	60
- off road	35-40
- afloat	6-7
Maximum angle of gradient, deg.	70
Side slope, deg.	46
Ditch width, m	2
Vertical obstacle, m	0,5
Operation temperature, °C	-40/+50
Towing force on the winch, tons	6
<b>Armament:</b>	
<b>Gun:</b>	
Caliber, mm	30
Ammunition allowance, pcs.	500
<b>Machine gun:</b>	
Caliber, mm	7,62
Ammunition allowance, pcs.	2000
<b>Grenade launcher:</b>	
Caliber, mm	30/40
Ammunition allowance, pcs.	87
<b>Anti-tank guided missile:</b>	
Ammunition allowance, pcs.	2+2
<b>Additional equipment:</b>	
Smoke grenade launcher, pcs.	6
NBC system	
Navigation system	
Air cooling system	
IR night vision system	
Radio communication equipment	

# INFANTRY FIGHTING VEHICLE BMP-1M

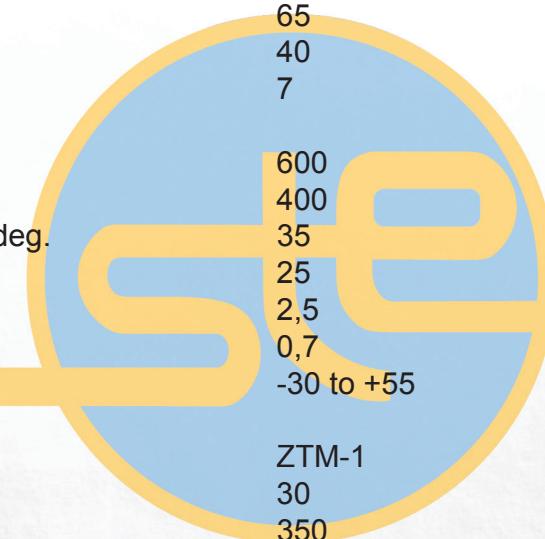


The combat vehicle BMP-1M is an upgraded version of BMP-1 with installation of the updated combat module and sighting and pointing system that qualitatively improves the fire power of the vehicle in combat under the conditions of active usage of antitank armament and mass-destruction weapon.

# INFANTRY FIGHTING VEHICLE BMP-1M

## Basic characteristics

Vehicle type	Tracked, armoured, amphibious, airtransportable
Combat weight, tons	13,7
<b>Overall dimensions, mm:</b>	
Length	7650
Width	2900
Height	2860
Ground clearance	400
Crew, men	3
Troops, men	7
<b>Mobility characteristics:</b>	
Engine type	UTD-20
Engine power, h/p	300
Power-to-weight ratio, hp/t	22
Type of transmission	Mechanical
Maximum speed, km/h:	
- on road	65
- off road	40
- afloat	7
Distance range, km:	
- on road	600
- off road	400
Maximum angle of gradient, deg.	35
Side slope, deg.	25
Ditch width, m	2,5
Vertical obstacle, m	0,7
Operation temperature, °C	-30 to +55
<b>Armament:</b>	
<b>Gun:</b>	ZTM-1
Caliber, mm	30
Ammunition allowance, pcs.	350
<b>Machine gun:</b>	KT 7,62(PKT)
Caliber, mm	7,62
Ammunition allowance, pcs.	2500
<b>Grenade launcher:</b>	AG-17/UAG-40
Caliber, mm	30/40
Ammunition allowance, pcs.	116
<b>Anti-tank guided missile:</b>	"Barrier"
Ammunition allowance, pcs.	4
<b>Additional equipment:</b>	
Weapon stabilizer	Biplanar, electromechanical
Aiming drives of the weapon system	Electromechanical
Sighting system "Track"	TV, day-and-night with integrated laser rangefinder, 2 control panels
Panoramic observation system 360 deg.	"Panorama"
Firefighting system	Automatic
Air conditioner/heater kW	10/18
Radio-communication equipment	At the demand of the customer



# BTR-3BR ARMOURED REPAIR AND RECOVERY VEHICLES



The vehicle is intended to prepare for recovery and to tow damaged armoured fighting vehicles, to carry out welding and excavation works, to transport spare parts and expendable materials within the weight limit of up to 2 t.

# BTR-3BR ARMOURED REPAIR AND RECOVERY VEHICLES

## Basic characteristics

Vehicle type	Armoured repair and recovery vehicle based on APC wheeled chassis
Crew, men	3
Troops, men	2
<b>Crane equipment:</b>	
Load capacity, t	at least 2 with a jib of 3,5 m
Hook height, m	4,5
<b>Winch:</b>	
Pulling force, t	6
Pulling force with triple pulley system, t	
Usable rope length, m	
<b>Cutting and welding system:</b>	
15	
50	Cutting and welding metal with thickness up to 10 mm at distances up to 20 m
8	
up to 1	
<b>Auxiliary power unit:</b>	
Capacity, kW at least	
<b>Loading platform:</b>	
Carrying capacity, t	
<b>Tools and accessories</b>	
<b>Armament:</b>	
<b>Machine gun:</b>	
Caliber, mm	7,62
Ammunition allowance, pcs.	1500(6x250)
Communication equipment	At the demand of the customer
Firefighting system	Automatic
Air conditioner/heater, kW	10/18
Smoke screen laying system	"Tucha", 6 mortars

# BREM-84

## ARMOURED REPAIR AND RECOVERY



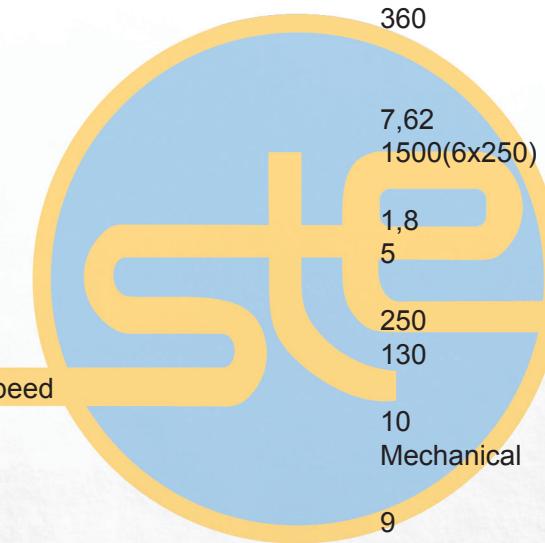
BREM intended to prepare for recovery and to tow damaged armoured fighting vehicles, to carry out welding and excavation works, to transport spare parts and expendable materials within the weight limit of up to 1.5 t

# BREM-84

## ARMOURED REPAIR AND RECOVERY

### Basic characteristics

<b>Vehicle type</b>	Armoured repair and recovery vehicle based on T-80UD tank chassis
<b>Combat weight, tons</b>	46 + 3%
<b>Overall dimensions, mm</b>	
Length	8890
Width	3560
Height (including NSVT-12,7 MG)	2740
Crew, men	3
<b>Mobility characteristics:</b>	
Engine type	6TD-2, diesel
Engine power, h/p	1200
Power-to-weight ratio, hp/t	26,1
<b>Maximum speed, km/h:</b>	
- on road	65
- off road	40
<b>Distance range, km:</b>	
- on road	450
- off road	360
<b>Armament:</b>	
<b>Machine gun:</b>	
Caliber, mm	7,62
Ammunition allowance, pcs.	1500(6x250)
<b>Deep fording, m:</b>	
Without preparation	1,8
With preparation	5
<b>Main winch:</b>	
Maximum pulling force, kN	250
Rope operation length, m	130
Rope winding and unwinding speed at force up to 250 kN, m/min	10
Drive	Mechanical
<b>Auxiliary winch:</b>	
Maximum pulling force, kN	9
Rope operation length, m	260
Drive Hydrostatic	
<b>Dozer blade:</b>	
Width, mm	3400
Maximum bite, mm	300
Blade performance (clay terrain), m <sup>3</sup> /h	120
<b>Crane:</b>	
Maximum capacity, t	25
Maximum radius, m	6,8
Jib swinging angle, deg.	0-75
Jib traversing angle, deg.	360
Crane traversing speed, r/m	0,2-1,5
Hook lowering and hosting speed, m/min	0,2-6
<b>Loading platform:</b>	
Loading area, mm	1200x1900
Carrying capacity, kg	1500
<b>Welding outfit:</b>	
Welding current, A	300
Maximum electrode diameter, mm	5



# MODERNIZATION PROGRAMS OF SFTE "SPETSTECHNOEXPORT"

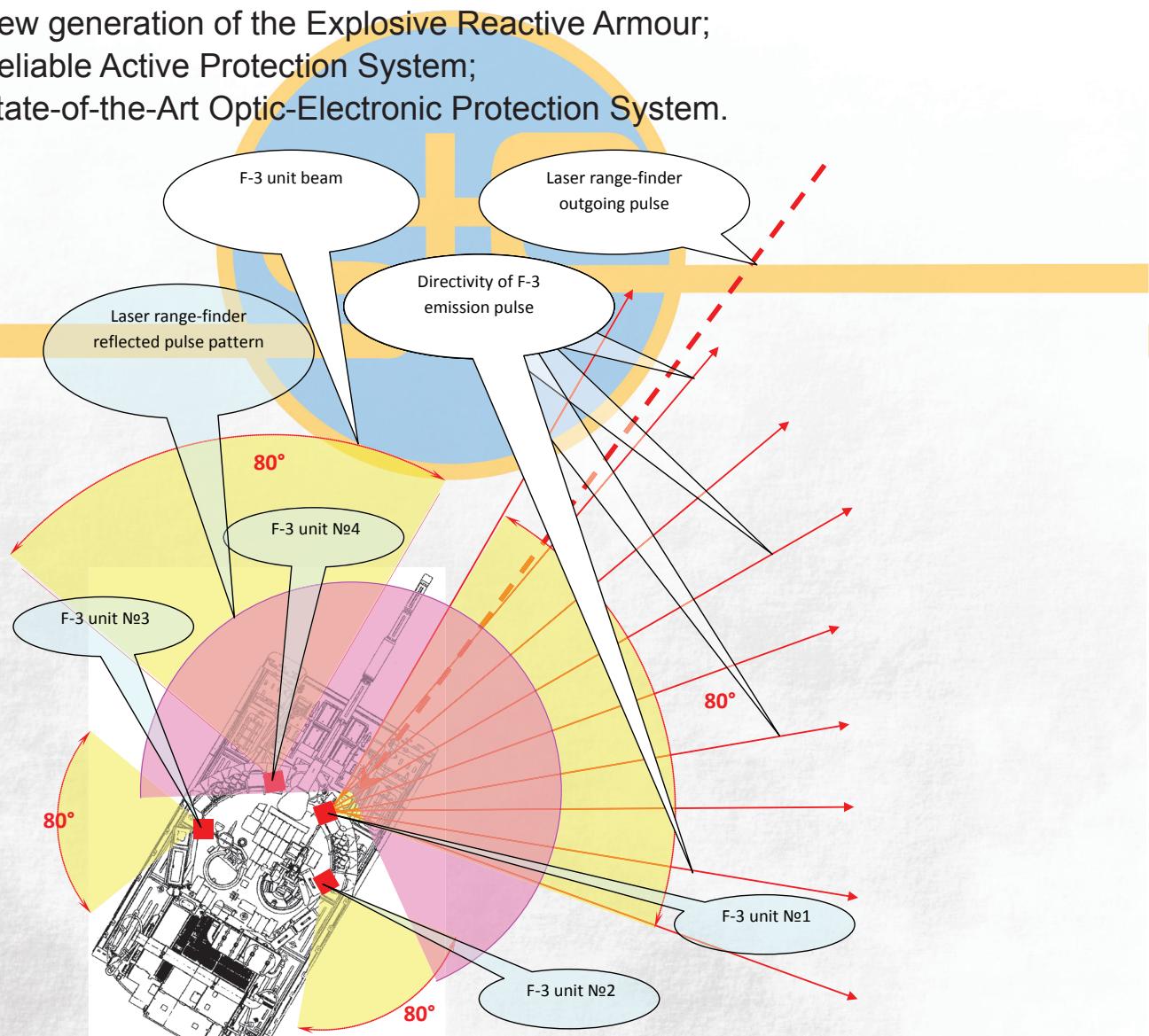
SFTE "SpetsTechnoExport" is in a position to provide the existing armoured vehicles and systems of the Customer with overhaul, life extension and various modernization programs. The mentioned programs could be accomplished using the facilities of Ukrainian OEMs and also by establishment of overhaul, repair, field repair and maintenance facilities in the country of the Customer with training of the Customers' Personnel and supply of General and Specialized Equipment.

Modernization programs include but not limited to:

## Upgrade of the Armoured Vehicle Protection system.

The concept includes:

- New generation of the Explosive Reactive Armour;
- Reliable Active Protection System;
- State-of-the-Art Optic-Electronic Protection System.



# «DUPLLET» EXPLOSIVE REACTIVE ARMOUR MODULES OF NEW GENERATION



- Effective protection from all type of munitions
- High reliability
- Detonation free when hit by machine guns, shell splinters and incendiary mixtures
- Enhanced hermeticity and resistance to high temperatures
- Do not require maintenance
- Easy mounting

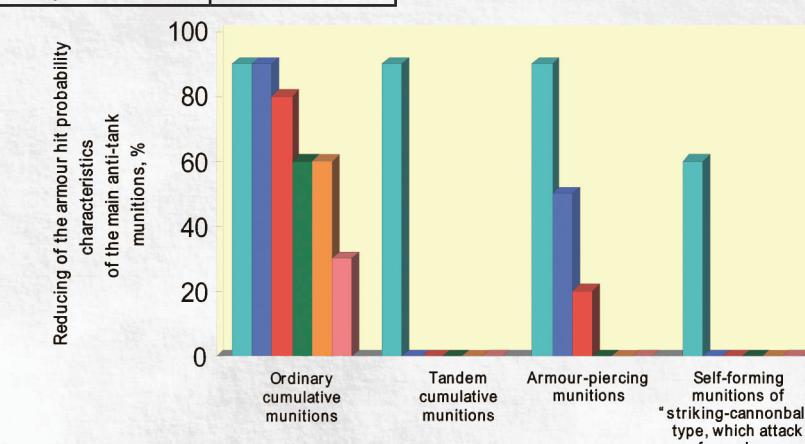
## COMBAT AND OPERATIONAL CHARACTERISTICS

Tandem dynamic protection system "Duplet" does not have analogues in the world. This is the only system that provides reliable protection of the armoured vehicles and stationary objects from the tandem cumulative munitions, armour-piercing sub-caliber projectiles and self-forming munitions of "striking-cannonball" type.

Analogueless integrated tandem dynamic protection system "Duplet" is the only system which provides protection of the object from the tandem cumulative munitions at the azimuth firing angles of 90 °C. It is 1,5 ... 2 times more effective than any system of other world best manufacturers in regard to the unitary munitions influence. Thanks to the original containers' design and reduced demolition effect of the system elements the survivability is increased 2-3 times comparing to the known systems. Effectiveness of the tandem dynamic protection system "Duplet" does not depend on the projectile hitting angle and point of hit. Side effect, as one of the important dynamic protection systems' evaluation criteria, is reduced to zero in the tandem dynamic protection system "Duplet". "Duplet" system is manufactured at the plants of Ukraine only.

Size, mm	250x125x36 (250x125x26)
Weight, kg	2,8 (2,1)
Operation temperature, °C	-60 ... +70

"Duplet" modules require no special preparation for usage, maintenance and repair in operation.



# «ZASLON» ACTIVE PROTECTION SYSTEM

Active protection system is intended for protection of stationary and mobile objects from anti-tank hitting means with depressed and diving trajectories of flight independently of guidance systems and type or warhead applied.

Active protection system consists of autonomous operational modules (customer defines number of modules required) and control panel. Complex modular design allows installation on all the types of serial combat vehicles and ones under development.

## COMBAT AND OPERATIONAL CHARACTERISTICS

Target detection radar

Protected area, degree:

- horizontal ±150-180
- vertical -6 +20

Speed of defeated means, m/sec.:

- minimum 70
- maximum more than 1200

Weight (depends on protective level), kg

Power consumption, kW, max.

Readiness time, min.

Provision for mounting on mobile light-weight objects

Interference immunity

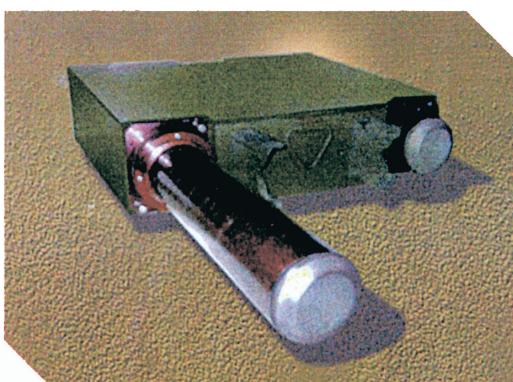
Hidden operation



## Active protection system "ZASLON", analogue not found

- placed on a fixed objects, battle tanks and armoured fighting vehicles
- modular design
- capable to select the targets
- autonomous, automatic and self-tested
- day and night and allweather operational

Modular design, high effective protection, small weight and size as well as reasonable cost attracts the attention of potential customers from various countries



# UNIT F-3 NEW EFFICIENT PROTECTION OF ARMOURED VEHICLES

F-3 system provides sham range signals to the enemy rangefinders. This will cause:

1. Amplitude-time selection-based fire control system as in T-80, T-84, T-90, etc. tanks cannot determine actual range to the target, consequently, hit probability is reduced almost to zero level.
2. The selection-based fire control system as in «Abrams», «Leclerc», «Leopard», etc. tanks cannot exactly determine actual range to the target, consequently, hit probability is reduced and shot preparation time increased because real range must be selected.

Basic version of F-3 unit is manufactured with formed sham range signal exceeding real value by  $400 \pm 10$  m. At customer's choice we can install any value of generated error in excess of real value.

Application: F-3 unit may be used to protect any objects of army, navy, air force, as well as engineering fortifications. F-3 unit is now being adopted in Ukrainian armed forces.

F-3 unit opposes traditional rangefinding methods and has no counterparts anywhere in the world in respect of performance.



## Basic characteristics of F-3 unit:

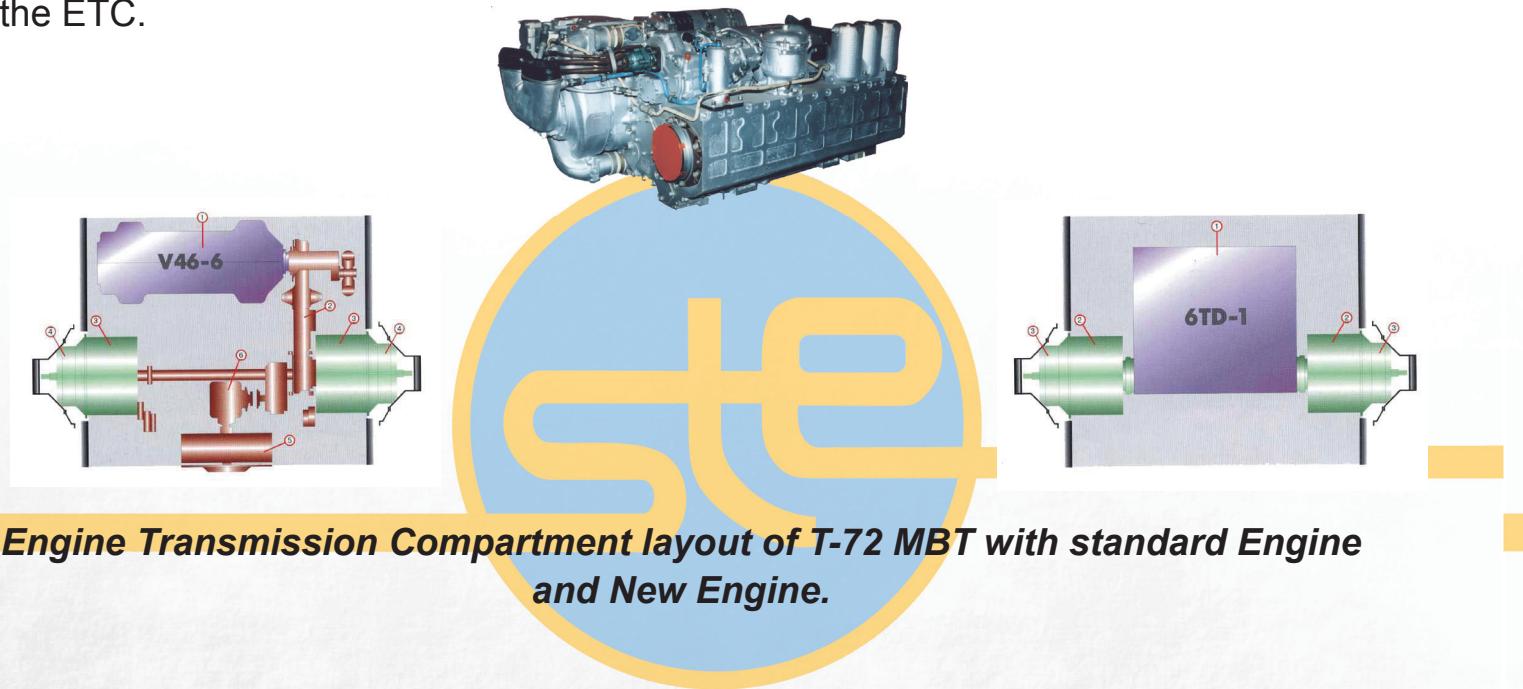
1. Emission wavelength, $\mu\text{m}$	1,06
2. Preselected distance between actual and false range, m	$400 \pm 10$
3. Duration of false range pulse, max., sec.	$30 \cdot 10^{-9}$
4. Operation angles relative to optical axis:	
- vertical	$\pm 20^\circ$
- horizontal	$\pm 40^\circ$
5. Energy density at 5 000 m distance within the range of operation angles, minimum, $\text{J/m}^2$	$10^{-10}$
6. Regeneration time after operation, max., ms	500
7. Overall dimensions within armoured turret, mm	260x172x131
8. Optical axis parallel to dimension, mm	260
9. Optical input-output window on face, mm	172x131
10. Weight within armoured cover, max., kg	12,5
11. Operating temperature range, $^\circ\text{C}$	-40 to +60
12. Powered from DC mains, V	27
13. Power consumption, ord/max., A	0,4/3



## UPGRADE OF THE POWER-PACK

Modernization of the existing Main Battle Tanks, Armoured Personnel Carriers, Armoured Fighting Vehicles Power-Pack with the Two-Stroke Hybrid Turbo Opposed Piston Multi-fuel Diesel Engines with liquid Cooling System. These Engines are operating using the diesel fuel, petrol, kerosene, jet fuel or their mix in any proportion. The Power-Pack modernization program sufficiently increases Power-to-Weight Ratio. Due to the considerably smaller overall dimensions of the Engines, the modified Engine Transmission Compartment could be equipped with the Additional Power Units and Air Conditioner Systems completely protected and without changes of the external shapes and dimensions of the Armoured Vehicle.

Power takeoff of the mentioned engine is provided via both sides of the crank-shaft. Installation of the Engine doesn't require adjustment and centering of the Engine in the ETC.



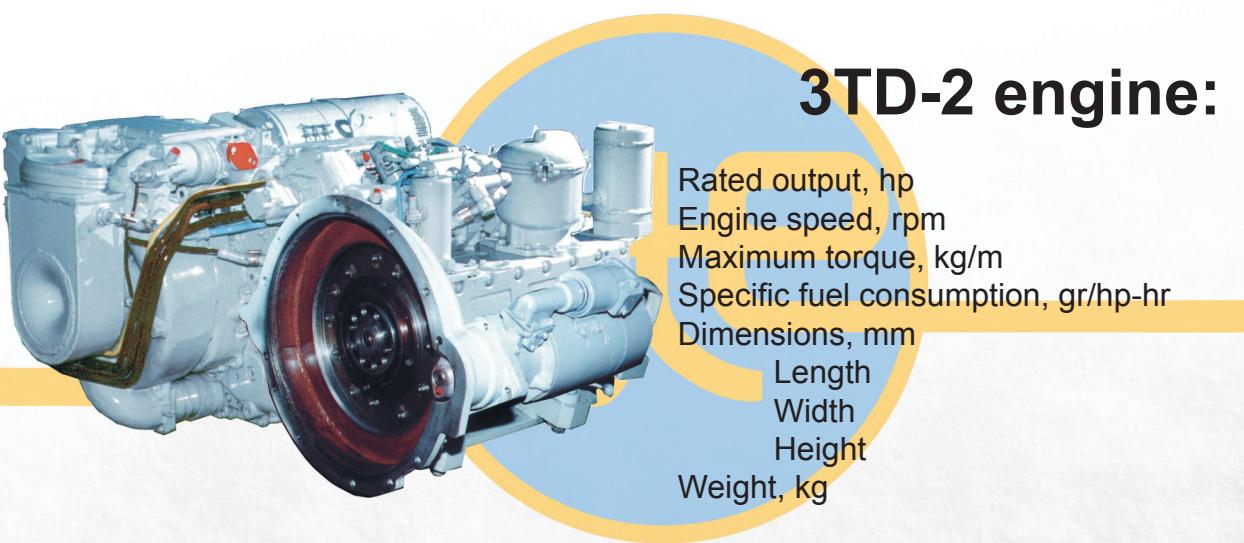
**Engine Transmission Compartment layout of T-72 MBT with standard Engine and New Engine.**

High rotation speed of the Opposed Piston Diesels provides possibility of Direct Power Delivery without additional gears. Direct power delivery in the proposed variant provides sufficiently higher torque of the Power-Pack. Hybrid Turbine provides Engine operation in high temperatures without decreasing of Engine efficiency. One of the main peculiarities of the mentioned Power-Pack is the Ejection Type Cooling System, High Efficiency Air Cleaning System, Special Air-intake device provides possibility of water obstacle fording up to 1,8 m. without preparation, high Hermeticity of Engine Transmission Compartment.

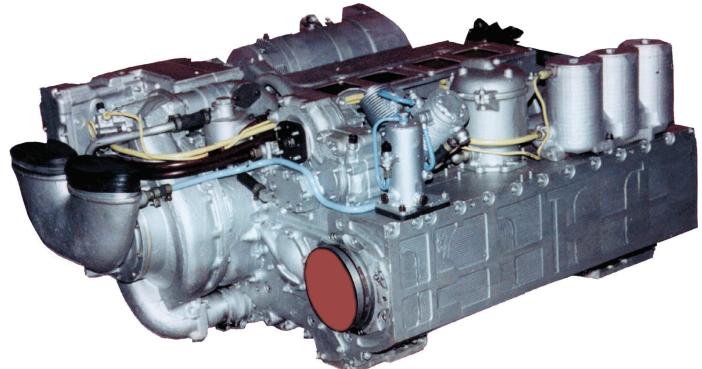
## TWO STROKE TURBO-PISTON OPPOSED-PISTON HYBRID ENGINES FAMILY

The two-stroke, multi-fuel, turbo-piston engine family of Ukrainian manufacture embodies progressive scientific and technical approaches in its design. The engines of this series are not inferior to the world best tank engines on the performance and surpass these engines on a number of considerable characteristics. The engines high specific power-weight-overhaul characteristics, reliability and repairability have been proved by many years of operation in utmost harsh climatic conditions at temperatures from -40 °C to +50 °C. Due to small dimensions and increased power it becomes possible to install the air-conditioning system together with the auxiliary power unit into the engine-transmission compartment.

We are in a position to offer the modernization sets for all types of armoured vehicles in regard of increasing the mobility and power-to-weight ratio of the existing tanks and armoured vehicles.

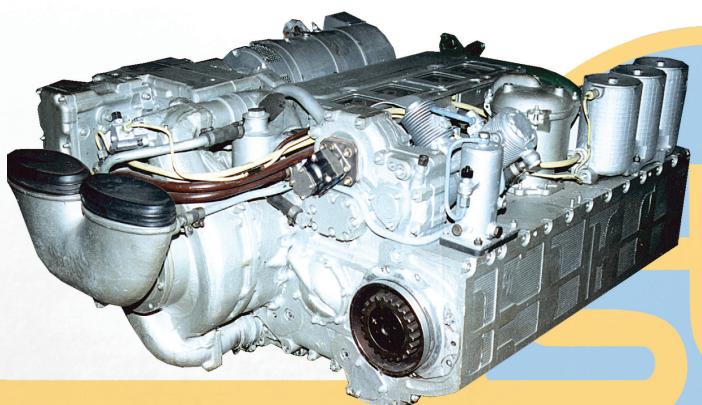


## 5TDF engine:



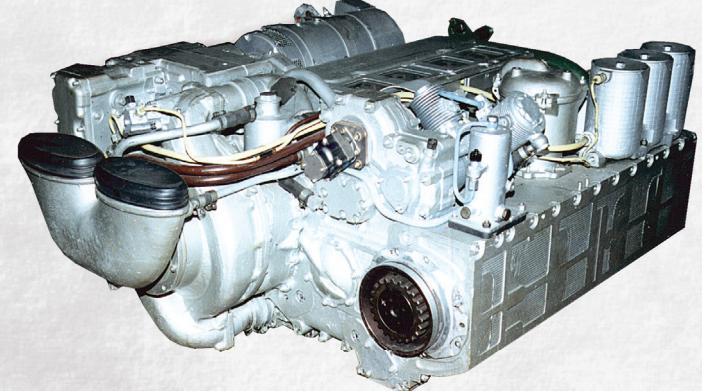
Rated output, hp	700
Engine speed, rpm	2800
Maximum torque, kg/m	196
Specific fuel consumption, gr/hp-hr	178
Dimensions, mm	
Length	1413
Width	955
Height	581
Weight, kg	1040
Engine-transmission compartment volume, m <sup>3</sup>	2,64

## 5TDFM engine:



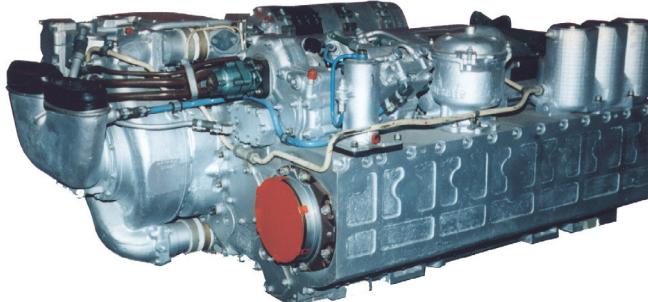
Rated output, hp	850
Engine speed, rpm	2800
Maximum torque, kg/m	202
Specific fuel consumption, gr/hp-hr	160
Dimensions, mm	
Length	1413
Width	955
Height	581
Weight, kg	1040
Engine-transmission compartment volume, m <sup>3</sup>	2,64

## 5TDFMA engine:



Rated output, hp	1050
Engine speed, rpm	2850
Maximum torque, kg/m	233
Specific fuel consumption, gr/hp-hr	165
Dimensions, mm	
Length	1413
Width	955
Height	581
Weight, kg	1080
Engine-transmission compartment volume, m <sup>3</sup>	2,64

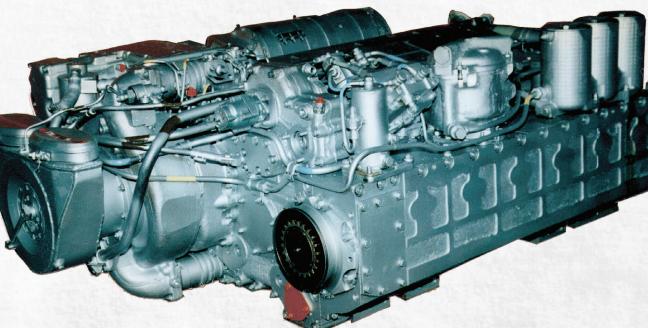
## 6TD-1 engine:



Rated output, hp	1000
Engine speed, rpm	2800
Maximum torque, kg/m	242
Specific fuel consumption, gr/hp-hr	158
Dimensions, mm	
Length	1602
Width	955
Height	581
Weight, kg	1180
Engine-transmission compartment volume, m <sup>3</sup>	3,1



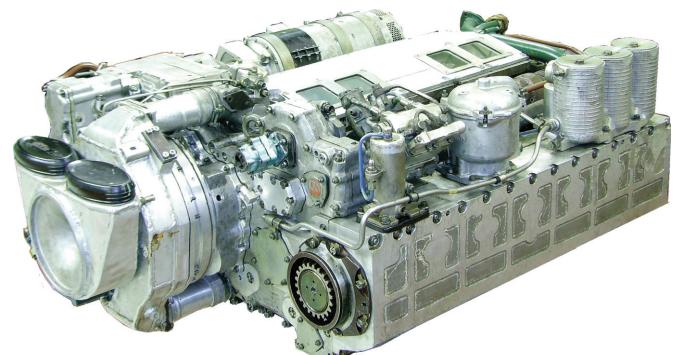
## 6TD-2E engine:



Rated output, hp	1200
Engine speed, rpm	2600
Maximum torque, kg/m	282
Specific fuel consumption, gr/hp-hr	160
Dimensions, mm	
Length	1602
Width	955
Height	581
Weight, kg	1180
Engine-transmission compartment volume, m <sup>3</sup>	3,1

# UPGRADE OF THE ARMAMENT COMPLEX AND FIRE CONTROL SYSTEM OF ARMOURED VEHICLES

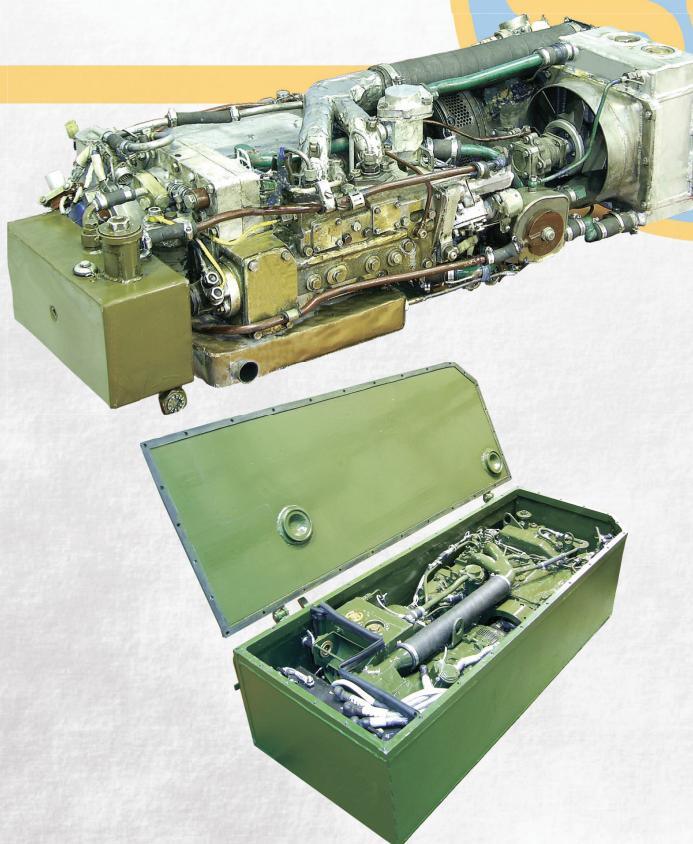
## 6TD-3 engine (experimental):



Rated output, hp	1400
Engine speed, rpm	2850
Maximum torque, kg/m	307
Specific fuel consumption, gr/hp-hr	160
Dimensions, mm	
Length	1698
Width	955
Height	581
Weight, kg	1210
Engine-transmission compartment volume, m <sup>3</sup>	3,2



## Auxiliary Power Unit EA-10



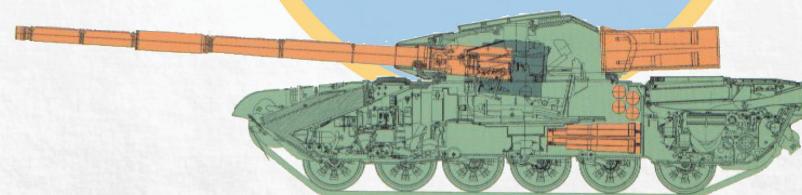
Max power, kW	10
D.C. voltage, V	28,5
Rated speed, rpm	4100
Fuel rate at max power, kg/hr	3,8
Dimensions, mm	
Length	1300
Width	495
Height	315
Dry weight, kg	250
Control system	Electric, remote
Uninterrupted operating time, hr	24

SFTE "Spetschnoexport" is in a position to provide modernization of the armament complex and fire control system of the armoured vehicles providing ability to fire the guided weapons via the bore channel, extended ranges of detection and identification of the target, TI ability. Upgrade of Fire Power of the existing armoured vehicles with additional Fire Systems namely:

- Automatic Grenade Launcher;
- Guided Missile Systems;
- Anti-Aircraft Systems.

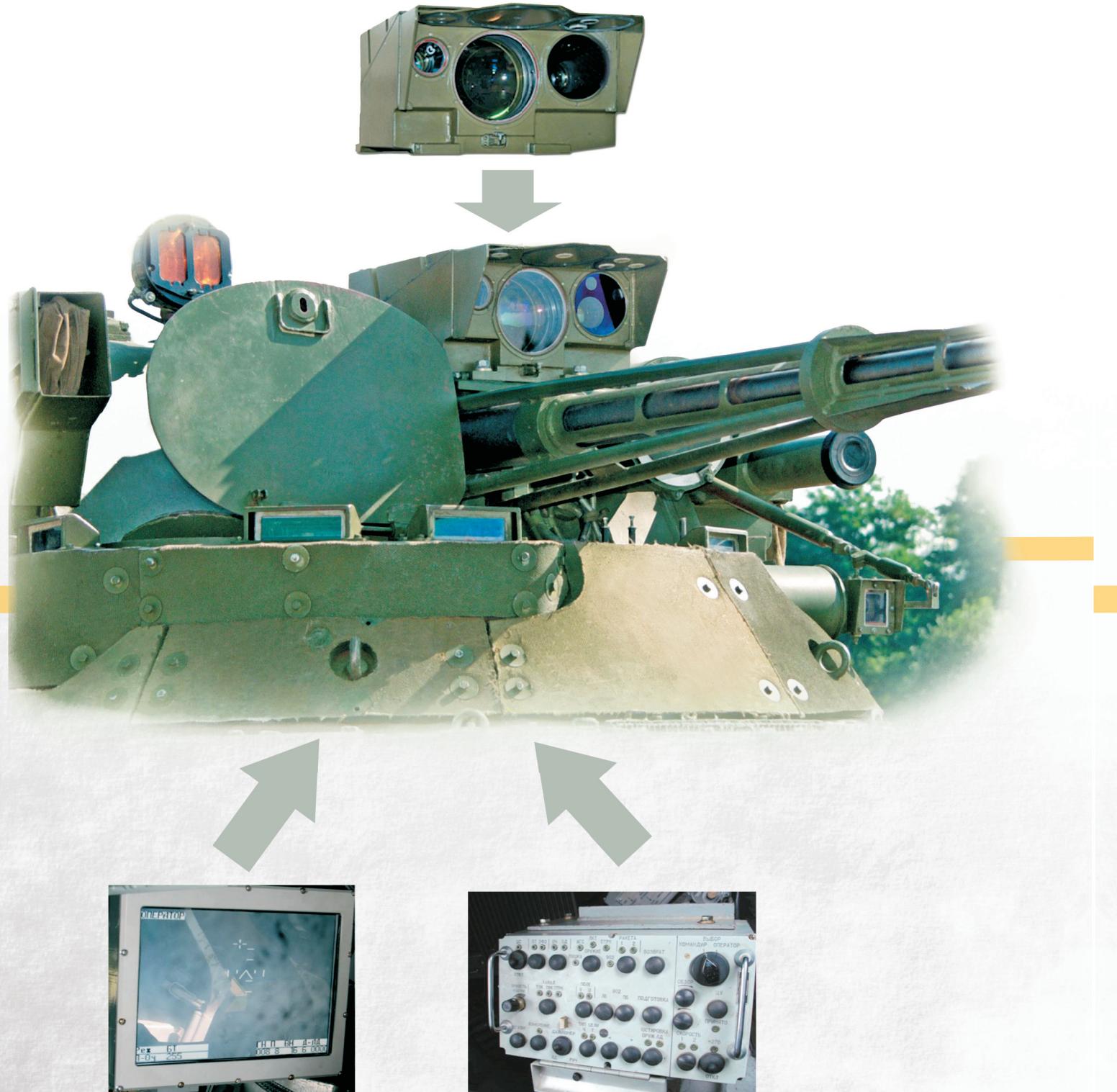
Integration of additional Fire systems into the existing Fire Control Systems and provision of separate complex Fire Control Systems to the existing Armoured Vehicles.

Provision of the automatic loading mechanism for tanks with increasing of the fire rate of the vehicle;



Installation of the automatic loading mechanism sufficiently increase the fire rate of the modernized tank comparing with the main battle tanks of type Leopard-2A5 or Abrams M1A2. The automated loading mechanism is installed into the developed tank turret niche. The capacity of the automated loading mechanism varies from the tank type.

## «TANDEM-2» COMBAT VEHICLE FIRE CONTROL SYSTEM



## «TANDEM-2» SYSTEM OPERATION FEATURES

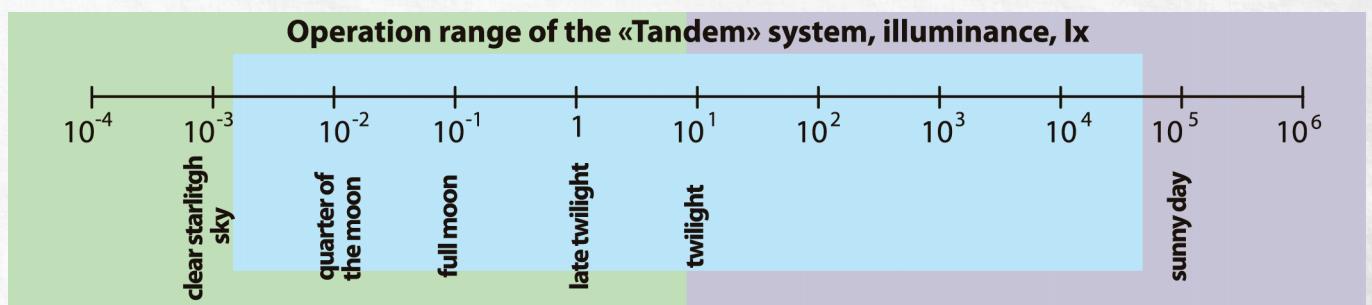
The “TANDEM-2” system is intended for control of the armament of infantry combat vehicles (BMP), armoured personnel carriers (BTR), and other lightly armoured vehicles using:

- automatic 30 mm cannon;
- automatic grenade launcher;
- 7,62 mm coaxial machine gun;
- anti-tank missile complex.

By the present time the first samples of that system successfully passed the tests at the test grounds of the Algerian armed forces. The “TANDEM-2” system provides for:

- detection and observation of ground targets on the background of the underlying surface with the help of TV cameras with two fields of vision at a meteorological visibility range of 10 km at day and night (min. illuminance,  $5 \times 10^{-3}$  lx) at ranges:

Tank, BMP, BTR	at day - 6 ... 10 km	at night - 1,2 ... 2,0 km
Group of people	at day - 2,4 ... 4,6 km	at night - 0,6 ... 0,9 km
- display the ground targets image and surrounding situation as well as the service alphanumeric information on the TV screen;
- measurement of the distance to the detected target by the laser rangefinder with accuracy within 5 m;
- rangefinder and TV channels electronic adjustment from the operators workplace;
- selected weapon aiming angles automatic determination and displaying of their numeric values on the display;
- combat vehicle mechanisms' control, including automatic commands issuance, to ensure beyond the vehicle superstructures passage when aiming the weapon systems;
- sighting of the target and missile when firing by the anti-tank missile complex;
- automatic self testing of the equipment;
- infrared imager and video-recorder connection possibility.



# «SUIT-1» OPTOELECTRONIC SYSTEM FOR THE BARREL BENDING

# «BAR'ER» VEHICLE-CARRIED ANTI-TANK MISSILE SYSTEM

## PURPOSE

The system measures the current value of the barrel bending of armoured and artillery armaments which appears as a result of the barrel heating during the fire, irregular heating under the solar radiation effect, and also mechanical deformations of the barrel. The electric signal proportional to the measured banding value is transmitted to the fire control system that allows to indemnify the firing errors by correcting the aiming angles. The system can be adapted to different artillery armaments. Thus the firing accuracy is several times increased.

## SPECIFICATIONS



SPETSTECHNOEXPORT



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e-mail: ste@ste.kiev.ua, www.ste.ua



## PURPOSE

Vehicle-carried anti-tank missile system mounted on the fighting vehicle turret (ICV, APC) is intended to destroy stationary and moving modern armoured targets with combined, carried or monolithic armour including ERA (explosive reactive armour), and also pinpoint targets like weapon emplacements, a tank in a trench, light-armoured objects and helicopters.

## SPECIFICATIONS

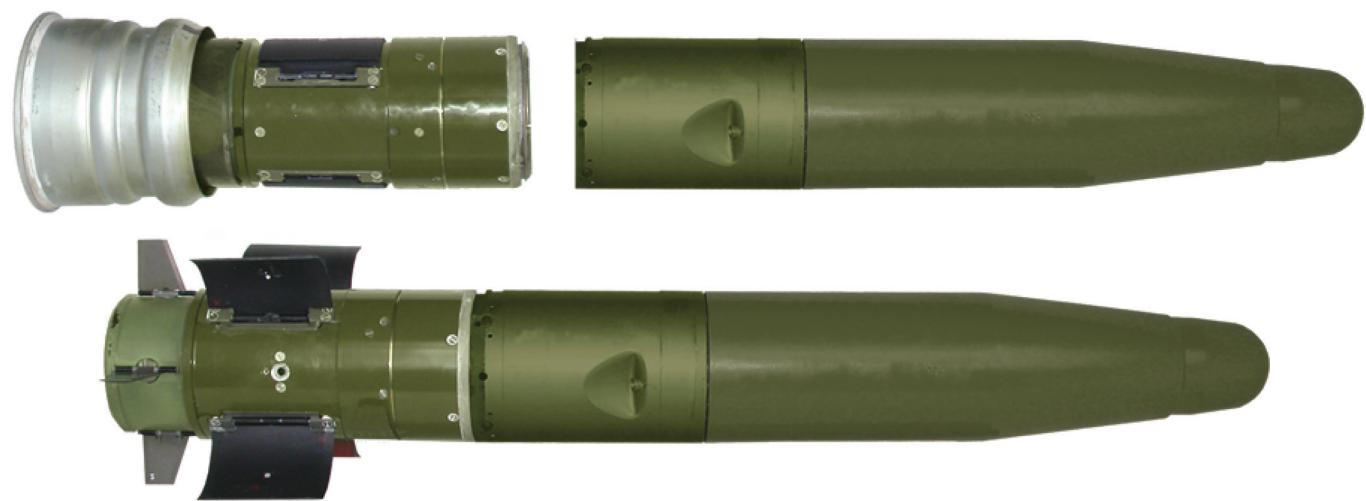
Range of angles measurement, mrad.	-5 to +5	Maximum range, m	100-5000
Measuring error, mrad., no more than	$\pm 0,1$	Flight time at maximum range, sec	23
Limited measurement frequency, Hz	1	Guidance system	semiautomatic by laser beam
Dynamic range of output voltages, V	-5 to +5	Warhead:	tandem hollow-charge
Power supply voltage, V	$24 \pm 3$	- type	
Operating temperature range, °C	-40 to +60	- armour penetration behind ERA, mm	no less than 800
Weight, kg:			
- missile in container		29,5	
- sight		14,6	
Overall dimensions, mm:			
- missile calibre		130	
- container length		1360	
- container outer diameter		140	

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SPETSTECHNOEXPORT



# «KOMBAT» ANTI-TANK GUIDED MISSILE



## PURPOSE

“KOMBAT” anti-tank guided missile is intended for firing from tanks T-80UD, T-84, T-72, modernized T-64 against stationary and moving modern armoured objects with combined, carried or monolithic armour including ERA (explosive reactive armour), and also against pinpoint targets like weapon emplacements, a tank in a trench, light-armoured objects and helicopters.

## SPECIFICATIONS

Maximum range, m	5000
Flight time at maximum range, sec	16,3
Guidance system	semiautomatic by laser beam
Warhead:	tandem hollow-charge
- type	
- armour penetration behind ERA, mm	no less than 750
Weight, kg:	30,45
Overall dimensions, mm:	
- missile calibre	125
- main part lenght	675
- tail part lenght	408
Operating temperature range, °C	-40 to +60



# «STUGNA» ANTI-TANK GUIDED MISSILE

## PURPOSE

Anti-tank guided missile is intended for firing from ICV-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, a tank in a trench, light-armoured objects and helicopters.

## SPECIFICATIONS

Maximum range, m	5000
Flight time at maximum range, sec	15,1
Guidance system	semiautomatic by laser beam
Warhead:	tandem hollow-charge
- type	
- armour penetration behind ERA, mm	no less than 550
Weight, kg:	21,6
Overall dimensions, mm:	
- missile calibre	100
- round length	1180
Operating temperature range, °C	-40 to +60



# «STUGNA» ANTI-TANK GUIDED MISSILE



## PURPOSE

“STUGNA” anti-tank guided missile is intended for firing from the tank T-55 or anti-tank artillery gun MT-12 against stationary and moving modern armoured objects with combined, carried or monolithic armour including ERA (explosive reactive armour), and also against pinpoint targets like weapon emplacements, a tank in a trench, light-armoured objects and helicopters.

## SPECIFICATIONS

Maximum range, m	5000
Flight time at maximum range, sec	16,8
Guidance system	semiautomatic by laser beam
Warhead:	- type
	- tandem hollow-charge
	- armour penetration behind ERA, mm
	no less than 550
Weight, kg:	no more than 21,1
Overall dimensions, mm:	
- missile calibre	100
- round length	1015
Operating temperature range, °C	-40 to +60

# ANTI-TANK GUIDED MISSILE

## SPECIFICATIONS

Maximum range, m	5000
Flight time at maximum range, sec	17
Guidance system	semiautomatic by laser beam
105 mm-calibre	Warhead:
	- type
	- tandem hollow-charge
	- armour penetration behind ERA, mm
	no less than 550
Weight, kg:	25,2
Overall dimensions, mm:	
- missile calibre	105
- round length	1015
Operating temperature range, °C	-40 to +60



## SPECIFICATIONS

Maximum range, m	5000
Flight time at maximum range, sec	14,3
Guidance system	semiautomatic by laser beam
115 mm-calibre	Warhead:
	- type
	- tandem hollow-charge
	- armour penetration behind ERA, mm
	no less than 550
Weight, kg:	25,2
Overall dimensions, mm:	
- missile calibre	115
- round length	1196
Operating temperature range, °C	-40 to +60



# «SKIF» PORTABLE ANTI-TANK MISSILE SYSTEM



## PURPOSE

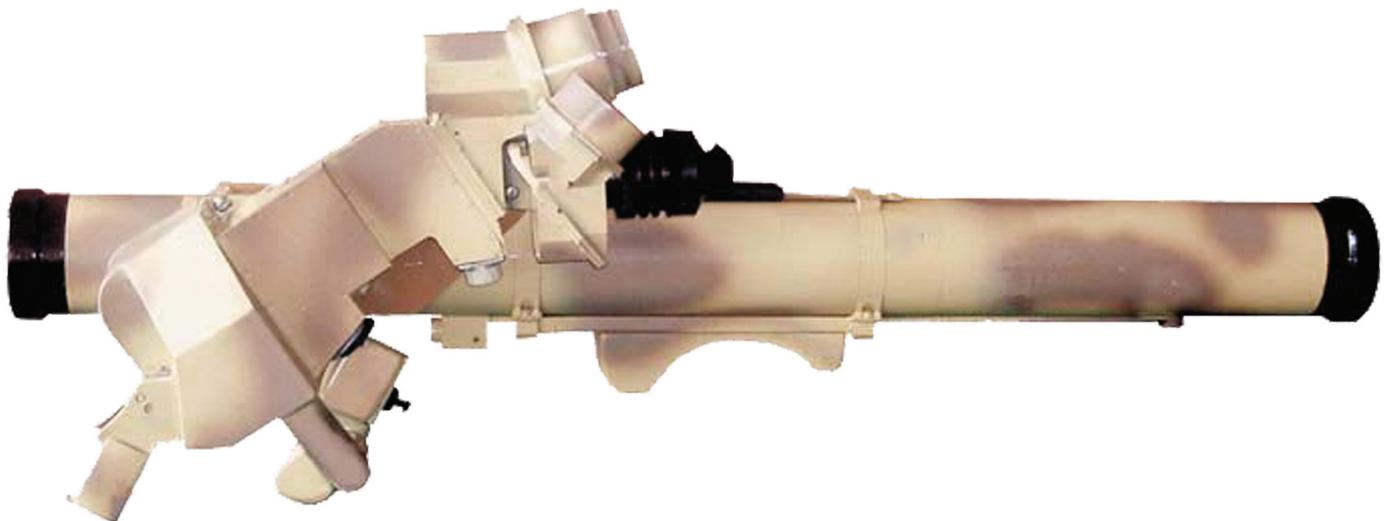
Portable anti-tank missile system is intended to destroy stationary and moving modern armoured targets with combined, carried or monolithic armour including ERA (explosive reactive armour), and also pinpoint targets like weapon emplacements, a tank in a trench, light-armoured objects and helicopters. System characteristic lies in its possibility to aim the missile into the target from closed emplacements and shelters to reduce the risk of the gunner destruction by reply fire attack of the enemy.



## SPECIFICATIONS

Range, m:	100-5000 100-3000
-at day time	
-at night time	
Flight time at maximum range, sec	23
Guidance system	by laser beam with automatic target tracking by television channel
Warhead:	tandem hollow-charge
- type	
- armour penetration behind ERA, mm	no less than 800
Weight, kg:	29,5 32 15,5 10 6
- missile in container	29,5
- launcher	32
- sight	15,5
- remote control	10
- thermal imaging module	6
Overall dimensions, mm:	130 1360 140
- missile calibre	130
- container length	1360
- container outer diameter	140
Operating temperature range, °C	-40 to +60

# «CORSAIR» LIGHT PORTABLE ANTI-TANK MISSILE SYSTEM



## PURPOSE

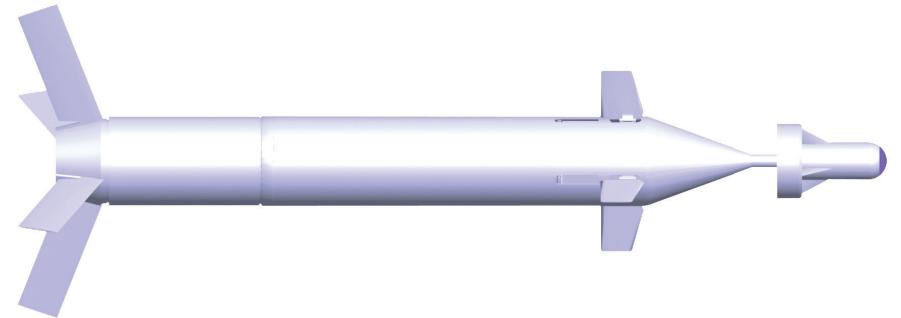
Light portable anti-tank system is intended to destroy stationary and moving modern armoured targets and other objects with combined, carried or monolithic armour including ERA (explosive reactive armour), and also pinpoint targets like weapon emplacements, a tank in a trench, light-armoured objects and helicopters.

## SPECIFICATIONS

Maximum range, m	5000
Flight time at maximum range, sec	14,3
Guidance system	semiautomatic by laser beam
Warhead:	tandem hollow-charge
- type	
- armour penetration behind ERA, mm	no less than 550
Weight, kg:	25,2
Overall dimensions, mm:	115 1196
- missile calibre	115
- round length	1196
Operating temperature range, °C	-40 to +60



# GUIDED MORTAR SYSTEM



## PURPOSE

Guided mortar armament system 120-mm high-precision guided bomb for combat usage from 2B11 mortar is designed for destruction of modern armoured and unarmoured, moving and stationary equipment, and also pinpoint engineering structures.

The system includes:

- 120-mm high-precision bomb;
- laser target designator/ranger that ensures targets detection, monitoring and identification in the area, their spherical coordinates measurement (range, position angle and elevation) and target designation using target laser illumination;
- installed device that provides initial data programming in the bomb control system;
- portable radio transmitter that ensures digital and analog connection between a look-out station and firing post.

## SPECIFICATIONS



Range, m	1000-7500
Bomb control system (on the terminal part of the trajectory)	laser semiactive homing guidance
Target hit probability	0,75-0,8
Guided bomb calibre, mm	120
Guided bomb weight, kg	27
Guided bomb length, mm	1430
Warhead type	high-explosive
Operating temperature range, °C	-40 to +60

# AUTOMATIC GRENADE LAUNCHER «UAG-40»



## PURPOSE

UAG – 40 is the first portable automatic grenade launcher. UAG - 40 reposes on the tripod before shooting. The total weight of the grenade launcher with tripod is less than 30 kilograms. Tripod's design allows firing from unprepared sites.

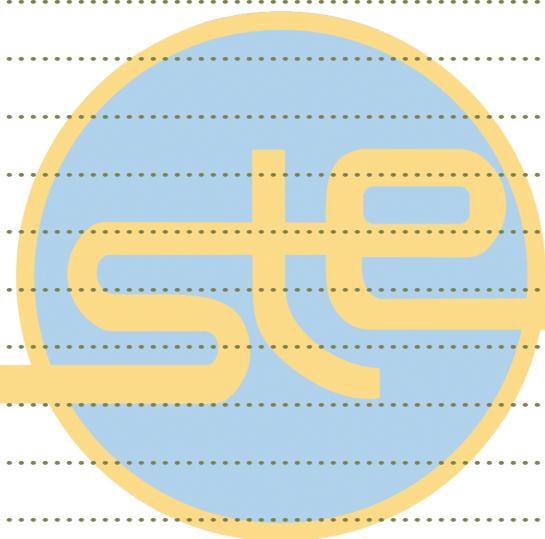
High level of portability and no need to prepare operating site allows quick change of firing position both in the open air and in an urban environment.

The UAG is a high-speed grenade launcher. It can use all types of grenades approved by NATO. The optical, infrared, photo visual or electronic sights can be fixed to the UAG - 40 housing. The complex use of the indicated engineering design decisions allowed to obtain the main advantages: high accuracy at series shooting, lowered recoil impulse, high reliability and simplicity in production and operation.

## SPECIFICATIONS

Length, mm	960
Weight (without grenade), kg	15
Bore, mm	40
Length of tube, mm	400
Rifle:	
Pitch, mm	1220
The number of rifles:	
In the begining of tube	8
In the middle of tube	16
In the end of tube	24
Grenade launching speed, m/sec	240
The maximum shooting range, m	2200
Fire mode	Single/automatic
Shooting rate, round/min	400

## NOTES



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