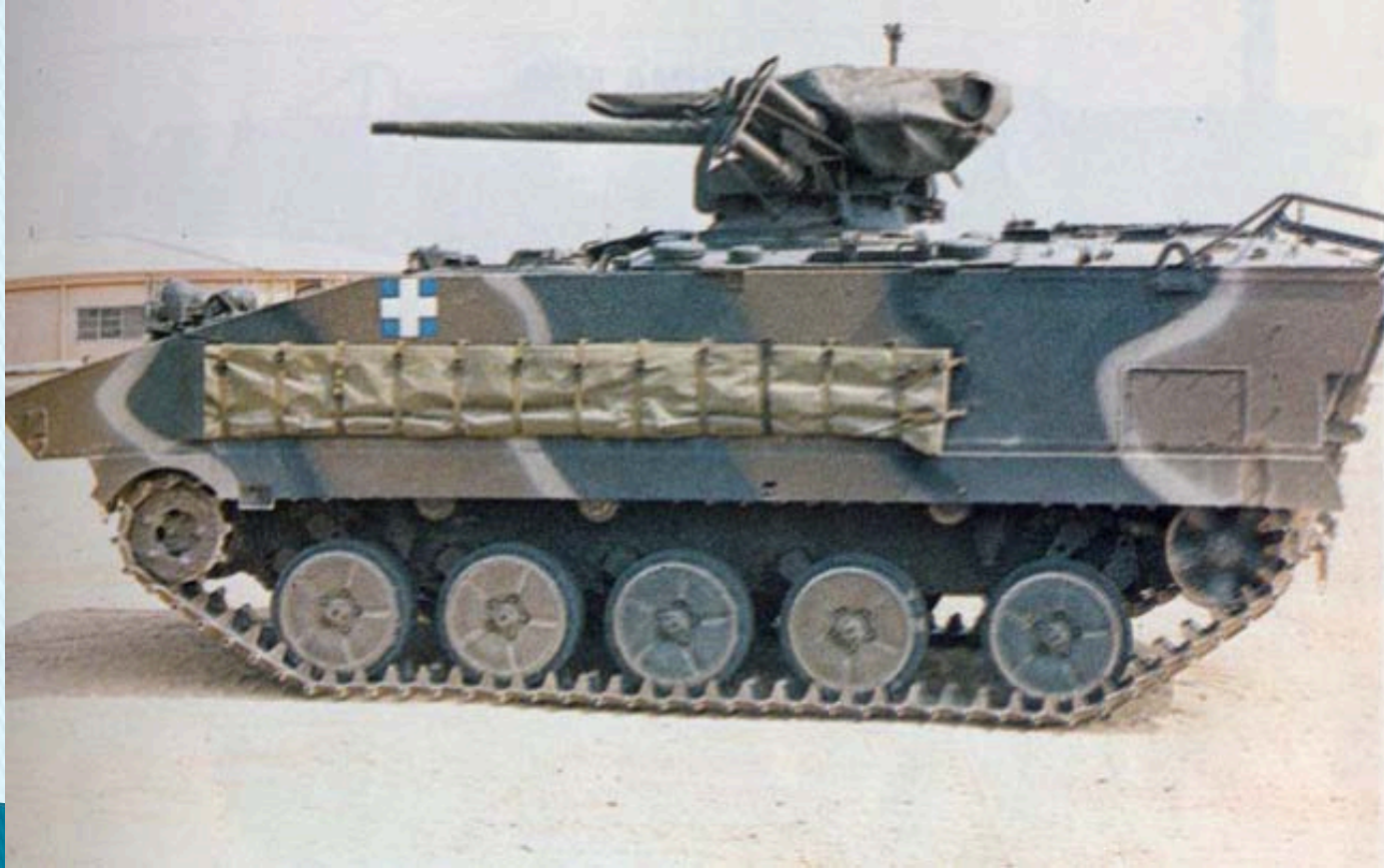


HYBRID IFV Khorunzhiy-3

on base IFV AMX-10P



Khorunzhiy-3 on base AMX-10P

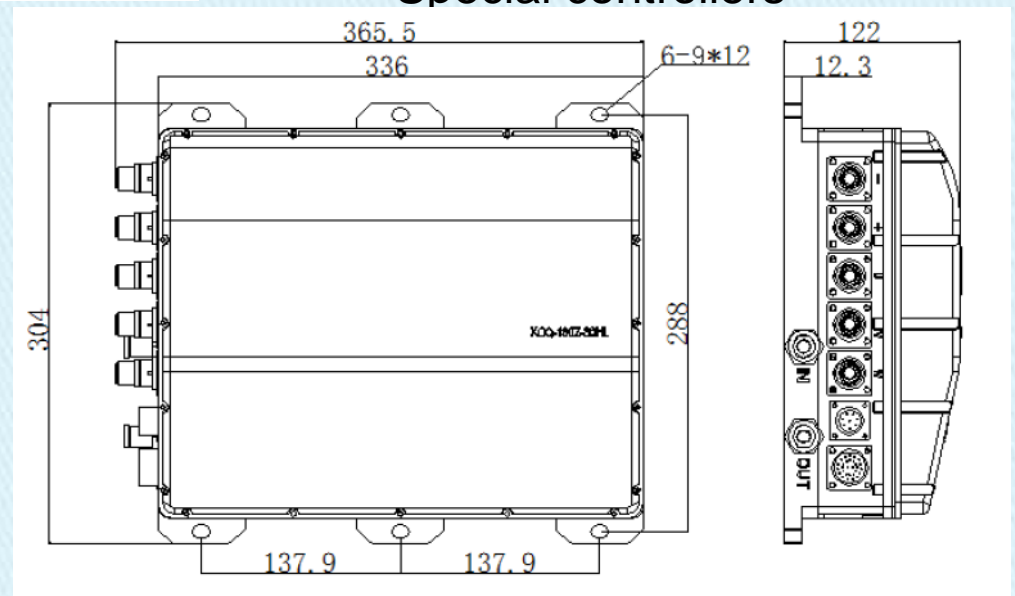
Specifications	
Weight	14.2 tons
Crew	3
soldgers	8
Length	5.78m
Width	2.78m
Height	2.57m
Base	3.66m
Rut	2.55m
Clearance	0.45m
Maximum Speed	80km/h
Fuel Capacity	420 litre
Operational Range	1000km
Obstacle	
Ascent	32 ⁰
Wall	0.7m
Trench	2.1m
Ford	1.6m
Engine	Cummins ISF2.8s4161P
Cylinders	L4
Fuel	Diesel
Horsepower	161hp (120kW)
Suspension	Individual torsion with hydraulic shock absorbers

Drive travel about	Concept on base armored vehicles Krimsk was turned into a conventional vehicle electric drive technology demonstrator in Russian vehicle was fitted with a power supply control system feeding eight electric motor units and a two-phase pneumatic gearbox.
Drive line	Electrical
Alternator (power)	240kW
Wheel drive (power)	2x60kW
Max torque	10,000Nm
Special features	220V AC 50Hz / 380V AC 50Hz
Internal / External power supply	Skid steer Function Pivot neutral steer function

Electric motor



Special controllers



Cummins ISF2.8s4161P



General of **ISF2.8s4161P** Diesel Engine for Vehicle

Engine Model	ISF2.8s4161P
Bore*Stroke	94*100mm
Type	4 cylinder in-line
Displacement	2.776L
Net Weight	214KG
Engine Type	Bosch high pressure common rail, High-pressure fuel injection
Size	606*641*632mm

Technical Specification of **ISF2.8s4161P** Diesel Engine for Vehicle

Max Output	120KW
Horsepower	161HP
Torque	360N.m
Certification	Euro/China IV
Aspiration	Turbocharged/Aftercooled
Peak Torque/ Speed (N.m/r/min)	1800-3000
No-load highest speed(r/min)	4750
Idling Speed(r/min)	750
Compression Ratio	16.5:1
Rated Speed	3600RPM

conversions KIT water in fuel for diesel engines CUMMINS FULL SET
FULL SET!

- COMPLETE WITH DIGITAL PWM and MAF / MAP proofreaders;
- High-end electronics included in the package;
- The union of stainless steel;
- Generator type "dry cell" of the latest generation ;
- Very small dimensions: 240x190x90mm;
- Impressive Square production of hydrogen gas: 2268 cm²;
- Large volume production of hydrogen 3.5 liters per minute (15A);
- Suitable for all models of trucks and buses, the engine power to 480hp.
- Weight 8.2 KG



High-pressure power system



Alternator



speedometer Dash board



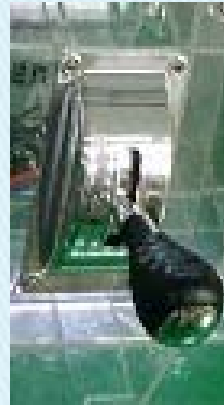
Accelerator



Brake Pedal



Electric Lever



Auto starter



Armament	
20x139mm cannon	325 projectiles
12.7x108mm or 50BMG anti-aircraft machine gun	500rds
14.5x114mm anti-aircraft machine gun or 23x115mm automatic cannon	400rds 325 projectiles
20x110mm automatic cannon	325 projectiles
7.62x54R or 7.62x51mm Coaxial machine gun	2000rds
2un Anti-tank missiles Milan	10 un

PERSONAL RADIO BS & HS



PR-11

Operational characteristics for BS radio

Net presets	16 -position channel selector
Group address	<ul style="list-style-type: none"> • up to 99 groups • up to 99 addresses
Data and Voice operation	<ul style="list-style-type: none"> • semi-duplex • voice or data • priority break-in
Operational autonomy	8 hours
Location	built GPS with automatic position report
Expected range	<ul style="list-style-type: none"> • open terrain: 2.5 km • urban: 500 m • loc: 20 km with PANEL antenna
Security	<ul style="list-style-type: none"> • remote track function that blocks audio, • reports GPS and battery status • remote KILL function that completely disables radio
Secure transmission	built-in AES-128, max 16 KEYS stored
Operational regime	<ul style="list-style-type: none"> - Team Leader Radio - Team Member Radio - REPEATER

Technical characteristics for BS radio

Frequency range	902-928 MHz
Transmitter power output	100mW/500mW/1W
Modulation	GFSK, BT=0.5
Over the air bit rate	10 / 128 Kbit/s
Receiver sensitivity @ BER=10-3	-110 / -100 dBm
Digital audio	24 Kbit/s CVSDM
Data	RS232: 9.6Kbit/s 115.2 Kbit/s Ethernet: 10 Mb/s / 100Mb/s
Encryption	AES - 128
ECCM	frequency hopping
Power supply	8 - 36 V DC
Dimensions	250 x 180 x 70 mm appr.
Weight	2 kg
Operating regime	-35°C +55°C

Operational characteristics for HS radio

Net presets	16 -position channel selector
Group address	<ul style="list-style-type: none"> • up to 99 groups • up to 99 addresses
Data and Voice operation	<ul style="list-style-type: none"> • semi-duplex • voice or data • priority break-in
Operational autonomy	8 hours
Location	built GPS with automatic position report
Expected range	<ul style="list-style-type: none"> • open terrain: 2.5 km • urban: 500 m • loc: 20 km with PANEL antenna
Security	<ul style="list-style-type: none"> • remote track function that blocks audio, • reports GPS and battery status • remote KILL function that completely disables radio
Secure transmission	built-in AES-128, max 16 KEYS stored
Operational regime	<ul style="list-style-type: none"> - Team Leader Radio - Team Member Radio - REPEATER

Technical characteristics for HS radio

Frequency range	902-928 MHz
Transmitter power output	100mW/500mW/1W
Modulation	GFSK, BT=0.5
Over the air bit rate	10 / 128 Kbit/s
Receiver sensitivity @ BER=10-3	-110 / -100 dBm
Digital audio	24 Kbit/s CVSDM
Data	RS232: 9.6Kbit/s 115.2 Kbit/s Ethernet: 10 Mb/s / 100Mb/s
Encryption	AES - 128
ECCM	frequency hopping
Power supply	Li-Ion Battery, 7.4V/2500mAh
Dimensions	180 x 85 x 35 mm
Weight	0.5 kg, with battery
Operating regime	-35°C +55°C

VEHICLE INTERCOM SYSTEM



Technical data

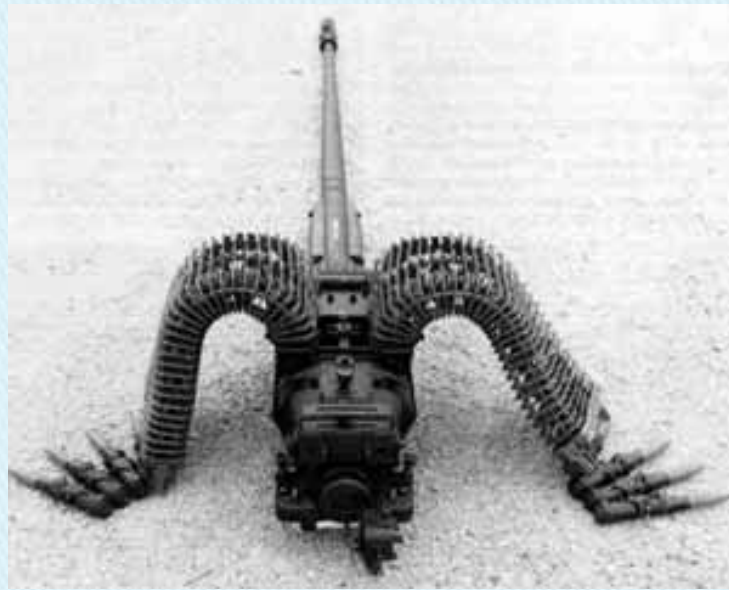
Type of transmission	duplex
Interface	RS485
Line rate	64 kb/s
Signals	DTx, DRx, Clock
Output level	± 5V
Input threshold level	± 0.5V
Speech processing	PCM, A-law, G.711, G.712

Freq. range	300 – 3000 Hz
Microphone impedance	1600 ohm
Microphone sensitivity	-41 dB, @94dB SPL
Earphone impedance	150 ohm
Audio power	max 50 mW
Distortion	10% @1mW
PTT	0-5 V, TTL
Microphone polarisation	10 VDC

Supply	18-36 V DC
Power consumption Control Unit	3 W
Dimensions Control Unit	250x200x80 mm appr.
Weight Control Unit	2.6 kg
Power consumption Craw Unit	1 W
Dimensions Craw Unit	180x150x70 mm appr.
Weight Craw Unit	1,2 kg
Relative Humidity	do 95% @ +55° C
Operating Temperature Range	-25°C - +55° C

Interface	4 wire with E/M
Impedance	600 ohm
Input level	+2 dB.....-10 dB
Output level	+2 dB.....-10 dB
E/M signalling	0-5 V, TTL

Coaxil automatic cannon



Technical data	M693F2
Production of the country, the factory	France
Principle of function	Gas-operated
On base	M693F2
Caliber	20x139mm
Barrel length	1800mm
Weapons length	2600mm
Weight	71kg
Effective range	1500m
Rate of fire	800rds/min
Muzzle velocity	1050m/c

Machine Gun



Technical data	M87N, NSVT-N
Production of the country, the factory	Serbia, Russia, Kazakhstan
Principle of function	Gas-operated
On base	NSVT
Caliber	50BMG (12.7x99mm)
Barrellength	1100mm
Weapons length	1560mm
Weight	24.8kg
Effective range	1500m
Rate of fire	700rds/min
Muzzle velocity	890m/c

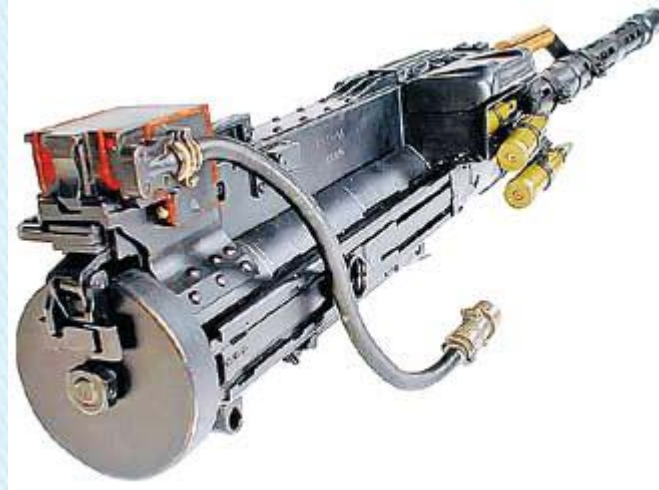
Technical data	M87, NSVT
Production of the country, the factory	Serbia, Russia, Kazakhstan
Principle of function	Gas-operated
On base	NSVT
Caliber	12.7x108mm
Barrellength	1100mm
Weapons length	1560mm
Weight	24.8kg
Effective range	1500m
Rate of fire	700rds/min
Muzzle velocity	845m/c

Machine Gun



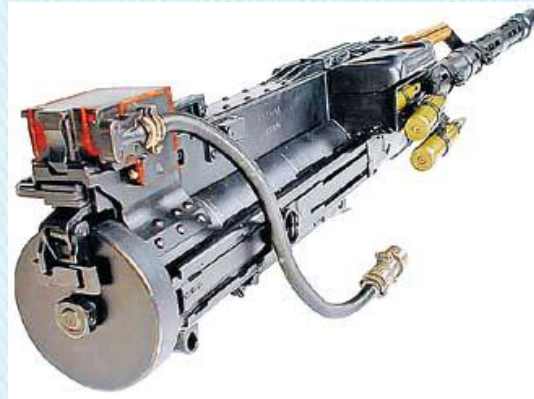
Technical data	DShKM-N, Type 54N
Production of the country, the factory	Serbia, Russia, Romania, China
Principle of function	Gas-operated
On base	DShK
Caliber	50BMG (12.7x99mm)
Barrellength	1070mm
Weapons length	1625mm
Weight	33.5kg
Effective range	1500m
Rate of fire	600rds/min
Muzzle velocity	890m/c
Technical data	DShKM, Type 54
Production of the country, the factory	Serbia, Russia, Romania, China
Principle of function	Gas-operated
On base	DShK
Caliber	12.7x108mm
Barrellength	1070mm
Weapons length	1625mm
Weight	33.5kg
Effective range	1500m
Rate of fire	600rds/min
Muzzle velocity	845m/c

Machine Gun



Technical data	KPV, Type 58
Production of the country, the factory	Russia, China
Principle of function	short stroke barrel
On base	KPV
Caliber	14.5x114mm
Barrel length	1346mm
Weapons length	2000mm
Weight	52.3kg
Effective range	2000m
Rate of fire	600rds/min
Muzzle velocity	976m/c

Anti-aircraft automatic cannon



Technical data	KPV-23
Production of the country, the factory	Serbia
Principle of function	short stroke barrel
On base	KPV
Caliber	23x115mm
Barrel length	1346mm
Weapons length	2000mm
Weight	52.3kg
Effective range	1500m
Rate of fire	600rds/min
Muzzle velocity	680m/c

Technical data	KPV-20
Production of the country, the factory	Serbia
Principle of function	short stroke barrel
On base	KPV
Caliber	20x110mm
Barrel length	1346mm
Weapons length	2000mm
Weight	52.3kg
Effective range	1500m
Rate of fire	600rds/min
Muzzle velocity	835m/c

Anti-aircraft automatic cannon



Technical data	M55
Production of the country, the factory	Serbia
Principle of function	Gas-operated
On base	HSS-804
Caliber	20x110mm
Barrel length	1740mm
Weapons length	2500mm
Weight	24.85kg
Effective range	1500m
Rate of fire	600-750rds/min
Muzzle velocity	880m/c

Coaxil Machine Gun



Technical data	UKM-2000C, M86N, PKT-N, MG-TN,
Production of the country, the factory	Polish , Serbia, Bulgaria
Principle of function	Gas-operated
On base	PKT
Calibre	7.62x51mm
Barrellenht	626mm
Weapons lenght	1098mm
Weght	10.7kg
Efective range	1500m
Rate of fire	700-850rds/min
Muzzle velocity	810m/c

Technical data	PKT, M86, MG-T, Type 86
Production of the country, the factory	Russia, Serbia, Bulgaria, China
Principle of function	Gas-operated
On base	PKT
Caliber	7.62x54R
Barrellength	722mm
Weapons length	1098mm
Weight	10.5kg
Effective range	1500m
Rate of fire	600-800rds/min
Muzzle velocity	855m/c

Coaxil Machine Gun



Technical data	SGMT-N
Production of the country, the factory	Serbia
Principle of function	Gas-operated
On base	SGMT
Caliber	7.62x51mm
Barrellength	722mm
Weapons length	1150mm
Weight	10.5kg
Effective range	1500m
Rate of fire	600-800rds/min
Muzzle velocity	810m/c

Technical data	SGMT, Type 59T
Production of the country, the factory	Russia, China
Principle of function	Gas-operated
On base	SGMT
Caliber	7.62x54R
Barrellength	722mm
Weapons length	1150mm
Weight	10.5kg
Effective range	1500m
Rate of fire	600-800rds/min
Muzzle velocity	855m/c

Turret GCTWM



Specifications:

Property	Value
Main weapon caliber (mm)	30x165mm copy 2A42
Coaxial machine gun	7.62x54R or 7.62x51mm copy PKT
Ammunition of the main gun	350
Ammunition of the machine gun	1500
Traverse arc (degree)	360
Depression (degree)	-6
Elevation (degree)	60
Weight (kg)	1300
Crew	1
Number of rocket launchers AT-3	1
Number of smoke grenade launchers	6

Turret SW-1



Property	Value
Main weapon caliber (mm)	30x165mm copy 2A72
Coaxial machine gun	7.62x54R or 7.62x51mm copy PKT
Ammunition of the main gun	350
Ammunition of the machine gun	1500
Traverse arc (degree)	360
Depression (degree)	-6
Elevation (degree)	60
Weight (kg)	1500
Crew	remote control 1
Number of rocket launchers Shershen	4
Number of smoke grenade launchers	6

Turret AU-220M BAJKAL



Specifications:

Property	Value
Main weapon caliber (mm)	57mm BM57
Caliber	<u>57×348 mm SR</u>
Coaxial machine gun	7.62x54R or 7.62x51mm copy PKT
Ammunition of the main gun	200
Ammunition of the machine gun	2000
Weight (kg)	3200
Crew	remote control 1

Grid protection for wheeled armored vehicles P Θ

Presented in this anti-tank cumulative P Θ is an adaptation of the protective devices used in tanks BTR-70, BTR-80, T-55 and T-62 during combat operations in Afghanistan. RE protect the sides and stern of the hull and turret of the anti-tank grenade PG-7 and PG-9 with a probability of 0.66.

RE installed on BTR-80 and T-62 have been tested with positive results and have shown high efficiency in the fighting in Chechnya and Georgia. Equipment MCV Khazar set P Θ possible in military terms, using individual spare parts kit. Duration equipment MCV Khazar set P Θ was 5.0 h., And the complexity, 12.5 hours.

In order to ensure technological maintenance of the chassis and avoid damaging them to march over rough terrain board made folding screens body in a horizontal plane. The design allows you to firmly fix the P Θ folding in the upper section (stowed) position. Folding of the section in the lower position not fixed rigidly, they move towards the wheels and suspension limited limiters welded at the top of the section.



Installation scheme combined lattice screens (right of the screen in the raised position)

The duration of the installation using the RE staff toolkit was 7 hours., And the complexity of 21 hours. The total duration of the hardware and fasteners for mounting P Θ MCV Khazar was 11 hr., And the total complexity of this work was 29 hours.

Installation P Θ resulted in some increase in the dimensions in width (about 300 mm on each board and machine weight 1000 kg.

coated with special paint to reduce visibility in the infrared spectrum
through a thermal imager

Russian variant Intermat Low Emissivity Paint

