



BTR-70DI «DEFENDER»

ARMORED PERSONAL CARRIER

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The BTR-70Di «DEFENDER» Armored Personnel Carrier is combat, wheeled, AWD, floating, armored vehicle, equipped with two powerful diesel engines FPT «Iveco» Tector.



It possesses high dynamic qualities, high cross-country capacity and motion smoothness. The vehicle is capable to follow tanks and surmount trenches, ditches and water obstacles on run.

BTR-70DI «DEFENDER» is intended for transportation of mechanized unit personnel and for its fire support. The Armored personnel carrier can be equipped with various types of armament.

BASIC SPECIFICATIONS

Overall specifications:

Weight (kg)	12300
Crew	3
Troops	7
Number of firing posts	7
Length (mm)	7535
Width (mm)	2800
Height (mm)	2480
Ground clearance (mm)	490
Wheeled base (mm)	4400
Max. road speed (km/h)	100
Max. water speed (km/h)	10
Max. road range (km)	800
Armor type	rolled homogeneous armor



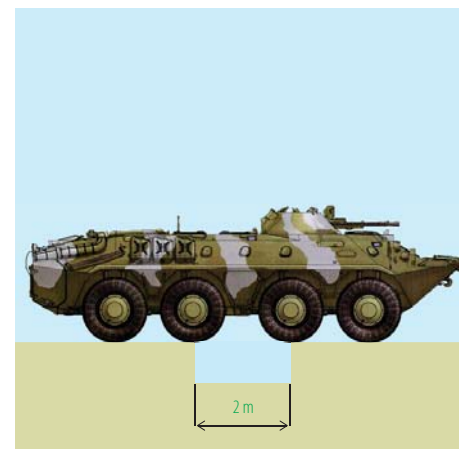
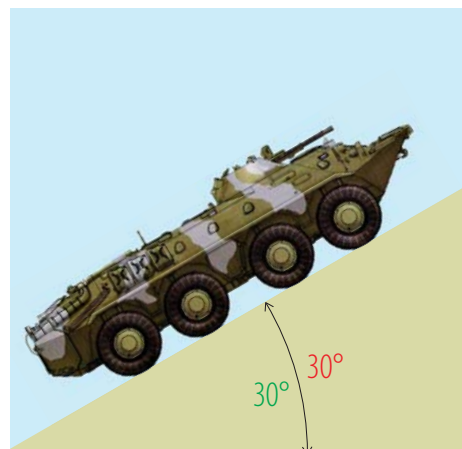
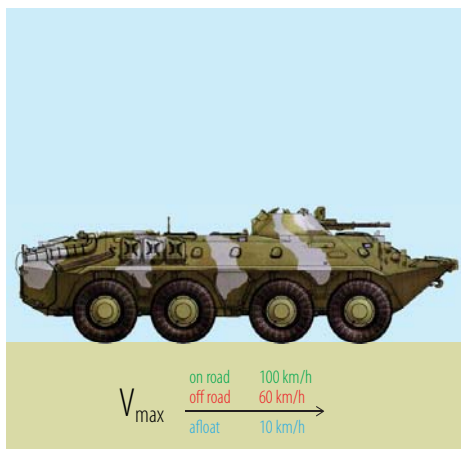
MOBILITY CHARACTERISTICS

The BTR-70DI is equipped with a mechanical six-speed gearbox, independent suspension and a full drive system.

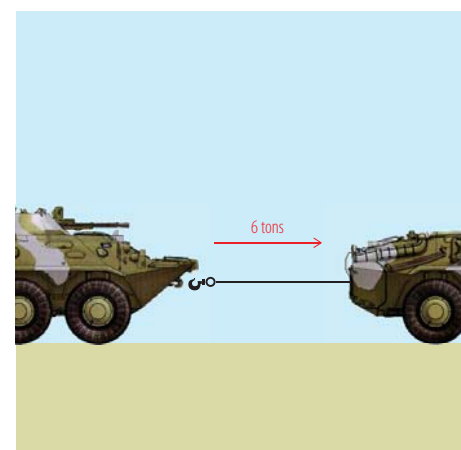
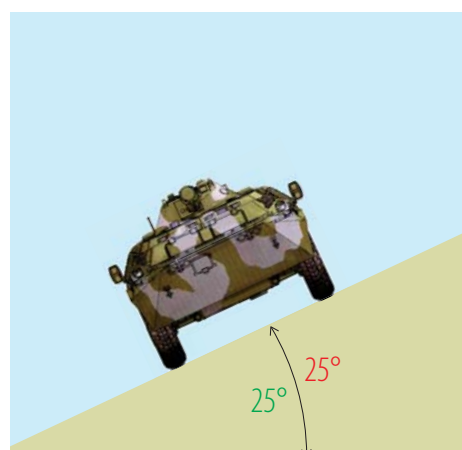
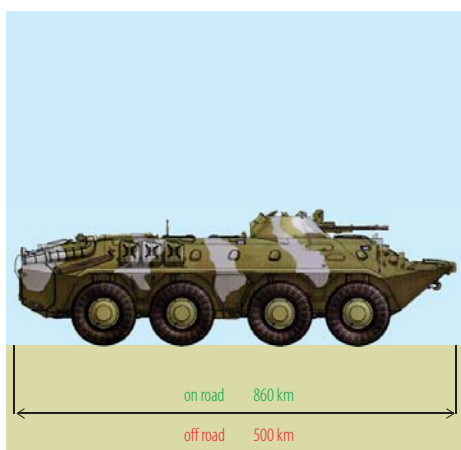


Wheel arrangement	8x8
Engine	FPT IVECO Tector (EURO-3), diesel, four —
Engine type	cylinder, in-line
Engine power, h/p	300 (2x150)
Power-to-weight ratio, hp/t	24,4
Engine life, km	200000
Type of transmission	Mechanical six speed
Operation temperature, C°	from —40 to +55

MOBILITY CHARACTERISTICS



Maximum speed, km/h:	
on road	100
off road	60
a float	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
Towing force on the winch, tons	6



ARMAMENT

OPTION 1: BUG WEAPON STATION



Machine gun:	KPVT
Caliber, mm	14,5
Ammunition allowance, pes.	500
Firing range (m)	2000
Machine gun:	PKT
Caliber, mm	7,62
Ammunition allowance, pes.	1500
Grenade launcher:	AG-17
Caliber, mm	30
Ammunition allowance, pes.	87
Anti-tank guided missile:	«Barrier»
Ammunition allowance, pes.	2+2
Weight, kg	530

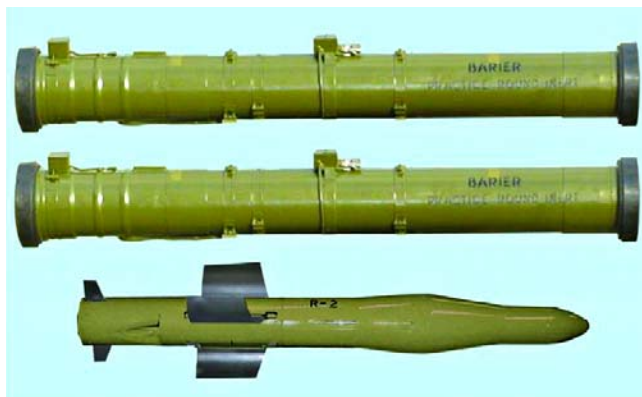
ARMAMENT

OPTION 2: INGUL WEAPON STATION



Machine gun:	ZTM-2
Caliber, mm	30
Ammunition allowance, pes.	360
Firing range (m)	4000
Machine gun:	PKT
Caliber, mm	7,62
Ammunition allowance, pes.	1500
Anti-tank guided missile:	«Barrier»
Ammunition allowance, pes.	2+2
Smoke shell launcher	TUCHA
Weight, kg	1300

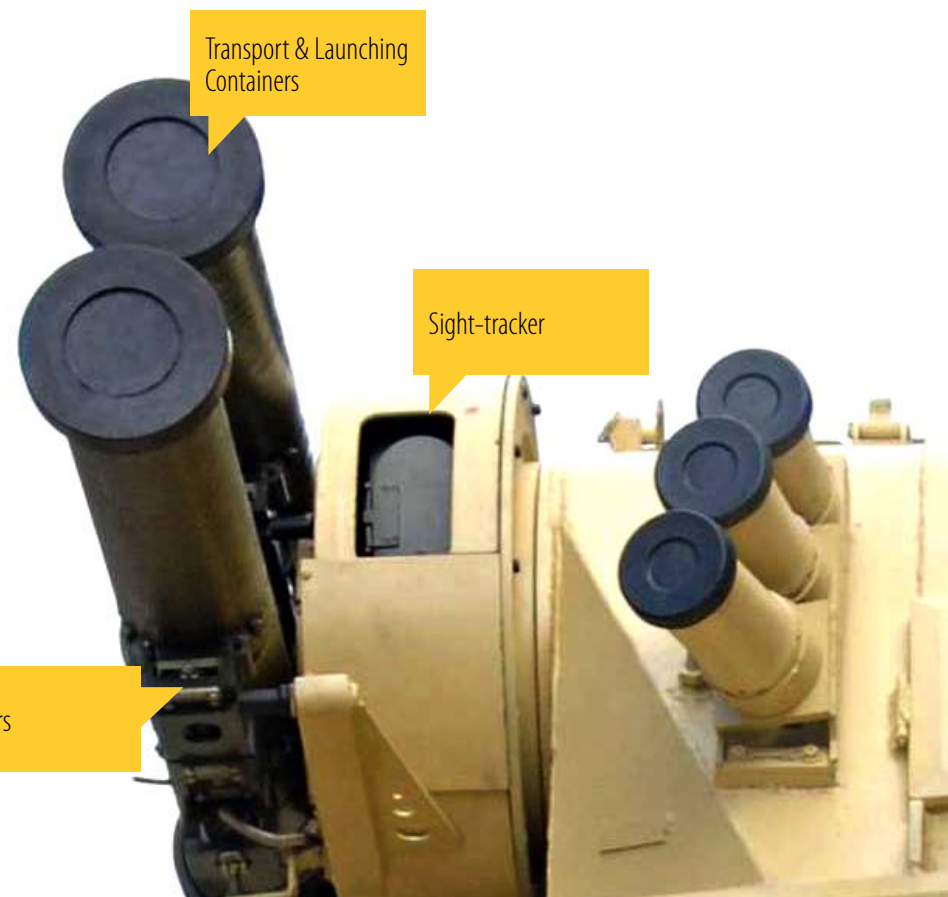
BARIER ANTITANK MISSILE SYSTEM



Guided missile and Transport & Launching Containers



Sight-tracker



Technical Data:

Maximum Firing Range, m	5000
Guidance System	Semiautomatic by laser beam
Warhead:	
Type	Tandem hollow-charge
Armour Penetration behind ERA, mm	not less than 800
Allowance of Ammunition, guided missiles	4



Transport & Launching Containers Placing Inside of APC

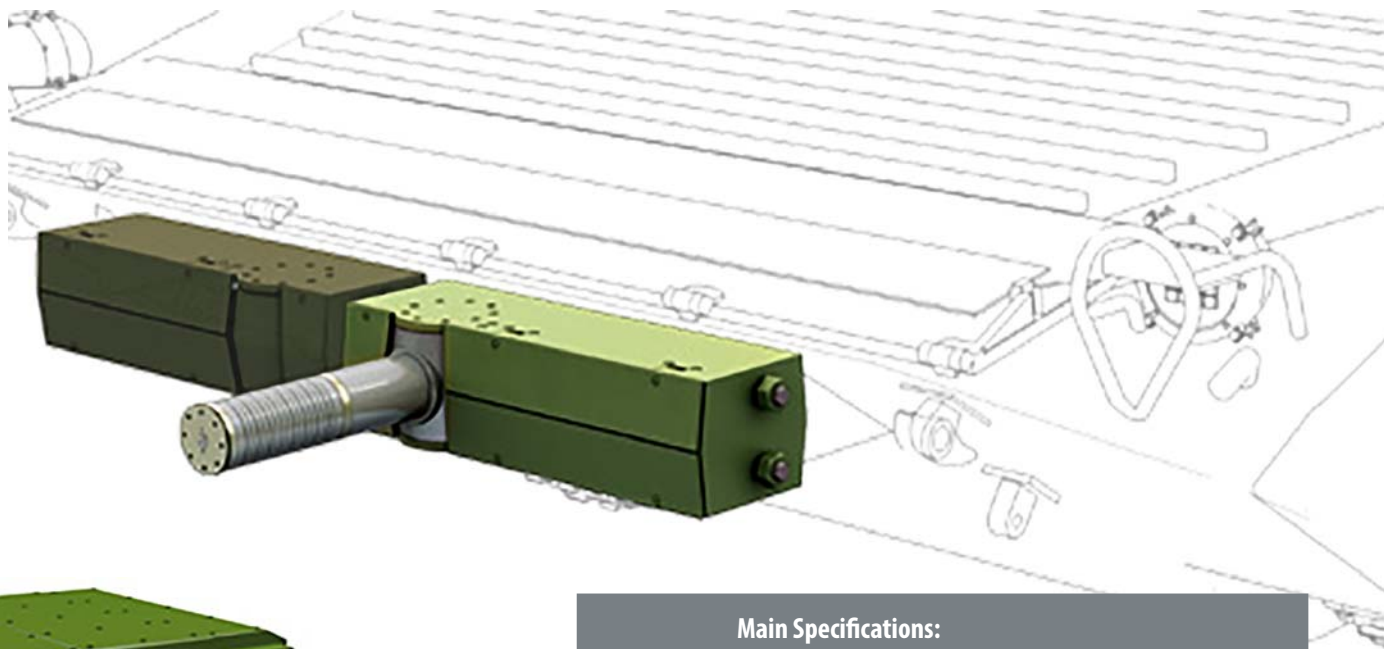
PROTECTION SYSTEM

Protection, compared to BTR-70, upgraded version has significantly improved protection, achieved by installing the active protection complex «Zaslon». Also BTR-70DI has enhanced anti-mine defense capabilities — class 3A and 3B by NATO classification.

Designed to protect the stationary and moving facilities against anti-tank strike devices with a grazing and diving trajectory.

The ZASLON active protection system — which has no equals in the world:

- provides protection to main battle tanks, it can also be integrated with other armoured combat vehicles as well as being used to protect stationary installations
- has modular design
- capable to single out the targets
- autonomous, automatic and self-tested
- day-and-night, and all-weather operating.



Main Specifications:

Target Detection	radar
Protected Area	$\pm 150-180^\circ$
Speed of defeated objects	
minimum speed	70 m/sec
maximum speed more than	1200
Weight (depends on protection level)	from 50 to 130 kg
Power Consumption, maximum	0.2 kW
Readiness Time	01 min
Possibility to install on light moving facilities	available
Interference Immunity	available
Hidden Operation	high

ADDITIONAL EQUIPMENT

The BTR-70DI has a television, combined day and night sight with a laser range finder, and Panorama panoramic view system. The APC is equipped with air conditioning and has a system of protection against weapons of mass destruction. The fire extinguishing system is automatic.

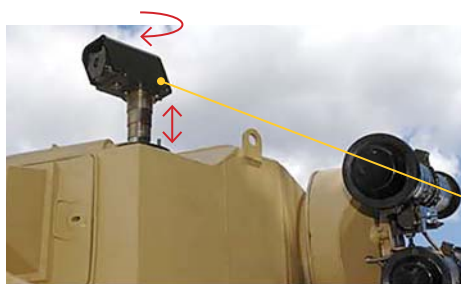


Additional equipment:

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
NBC protection	Filter ventilation system
Radio-communication equipment	At the demand of the customer

«PANORAMA» CONTROL ELEMENTS OF FCS

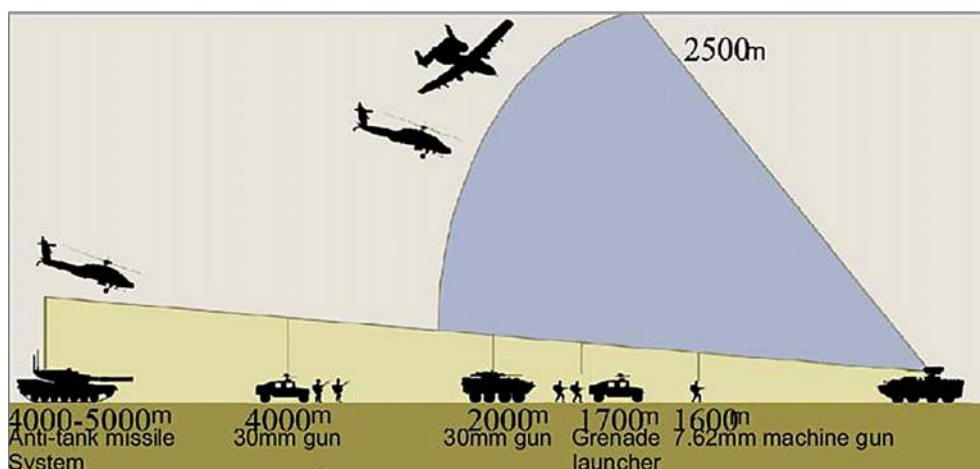
OBSERVATION SYSTEM



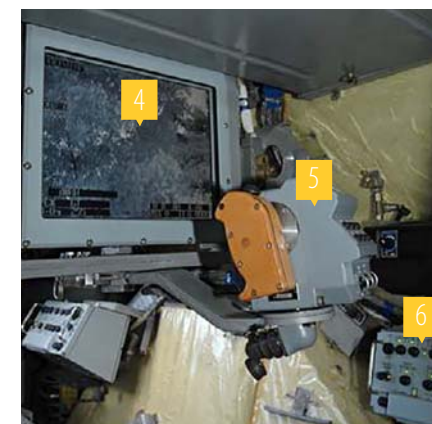
Video camera of panoramic observation system



Commander's control terminal



CONTROL ELEMENTS OF FCS



- A. Commander's (1) & gunner's (4) Video Monitors;
- B. Commander's (2) & gunner's (5) Armament Stabilizer control panels;
- C. Commander's (3) & gunner's (6) «Track» System control panels.

Technical Data:

Type	TV
Angle of Observation of the Panoramic System, degrees	360
Camera Resolution, angular minutes	not more than 2

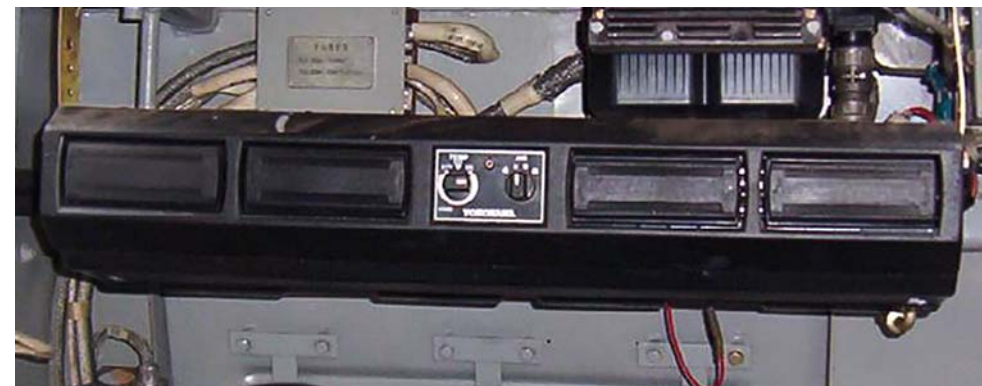
COMMUNICATION FACILITIES



Technical Data:

Radio Station Model	R-173M
Frequency Band, MHz	30–75,999
Operation Modes	Analogue phone and digital data transfer (up to 19 kbite/sec)
No. of Pre-Programmed Frequencies	10
Communication range, km not less than	20

AIR CONDITIONING PLANT



Combat Team Compartment



Gunner's Station

Technical Data:

Type	Multisplit
Drive of the Compressor	from the main engine
Cooling Efficiency, kW	10

BTR-70DI «DEFENDER»

FAMILY OF VEHICLES BASED ON BTR-70DI



BTR-70Di



BTR-70DiP



BREM-7K



BTR-70Di Svitiaz



BTR-70SM

INTEGRATED CREW TRAINING SIMULATOR

Use of the simulator during APC's crew training.



Main Specifications:

Ambient operating temperature	+5...+35 oC
Temperature during transportation	-25...+40 oC
Relative humidity at 25 °C, without condensing	no more 80%
Endurance	no more 4 h
Time of interval	no less 1 h
Readiness time	no more 30 min
Operation guaranty period	1 year
Voltage, AC	
Alternating current network	380/50, 220/50 V/Hz
Average (peek) power AC	no more 6 (12) kW
Weight	no more 2200 kg