

KDKhR-1N

Chemical Agent Reconnaissance Vehicle



Mission

The KDKhR-1N chemical agent reconnaissance vehicle is designed for the remote detection of nerve agent contamination in the atmosphere substratum.

The KDKhR-1N can detect and determine linear dimensions and coordinates of an agent cloud. It generates alarm signals and transmits them into the warning system. The vehicle also carries out radiation and chemical reconnaissance.

Equipment

The vehicle is fitted with:

- laser detection system;
- chemical and nuclear reconnaissance sensors suite, which includes:
 - IMD-21B dose rate meter;

- GSA-12 automatic chemical agent detector;
- PGO-11 semi-automatic chemical agent detector;
- KPO-1 probe unit.

The system is mounted on the MT-LB amphibious armoured tracked chassis, which features high mobility even on rugged terrain. Navigation and communications units, designed to timely acquire transmit reconnaissance data, comprise the TNA-4-6 navigation equipment, and data transmission equipment.

In contaminated areas the crew is protected by the collective NBC protection system and individual protection means.

Basic specifications

Near-ground atmosphere area, covered in one scanning cycle, sq. km	up to 75
Time:	
scanning cycle, sec	60
automatic surveillance mode operation, hrs	130
required for transmitting chemical agent cloud coordinates in the topographical coordinate system from the moment the cloud is detected, sec	10
non-stop operation after a 500km march without refuelling, hrs	3
Azimuth scanning angles, deg	0-360
Scanning speed, deg/s	6
Elevation operational angles, deg	-3...+70
Range and depth detection error, m	±30
Crew	3

RKhM-4-01

NBC Reconnaissance Vehicle

Basic specifications	
Weight, kg	13,500
Reconnaissance mission speed, km/h:	
radiation	up to 30
chemical	up to 10
Special-to-role equipment	
- IMD-21B (IMD-1r) dose rate metre	
- GSA-13 automatic chemical agent detector	
- PGO-11 semi-automatic chemical agent detector	
- KPO-1 sampler	
- DP-5V dose rate metre	
- VPKhR chemical agent detector kit	
- MK-3M meteorological kit	
- KZO-2 marker flag emplacement unit	
- chemical alarm signals launcher with control panel	
- TNA-4-4 tank navigation equipment	
Crew	3



The RKhM-4-01 vehicle is designed to carry out NBC reconnaissance in adverse topographical and weather conditions, when negotiating natural and man-made obstacles and water bodies by day and night in any season.

The vehicle is based on the BTR-80 APC chassis.

BMM GAZ-59039

Armoured Medical Vehicle

The BMM GAZ-59039 armoured medical vehicle is designed to search for, collect, and evacuate the wounded from the battlefield, NBC contaminated areas, to provide emergency medical assistance during transportation in various climate and weather conditions, as well as to be used as a mobile dressing ward manned by a team of doctors. The BMM vehicle, based on the BTR-80 APC, is capable of operating on rugged terrain by day and night in any season.

The vehicle's equipment includes a 5.6 x 3.5 x 2 m tent deployed separately or in combination with the BMM to form a medical



operational unit. In the latter case the tent is attached to one of the vehicle's side doors by a vestibule.

The BMM's special equipment comprises:

- racks for mounting four stretchers;
- racks and containers for housing medical equipment;
- 40-litre fresh water tank;
- sink with an elbow-operated tap;
- six-person seat with seat belts.

Basic specifications	
Weight, kg	14,550
Crew	3
Power plant output, hp	260
Max evacuation capacity, persons	9
Max speed, km/h:	
road	80
afloat	9
Fuel endurance, km	600
Armour protection	bullet-proof

BREM-1

Armoured Repair
and Recovery Vehicle



Mission

The BREM-1 armoured repair and recovery vehicle is designed for battlefield recovery of damaged tanks and other armoured vehicles to centralized location or shelter, tugging out stuck tanks and other military vehicles, and assisting crews in field repair and servicing of armoured vehicles.

Equipment

The BREM-1 carries the following special equipment:

- pull winch, rigging arrangement, and anchorage for tugging of stuck armoured vehicles;
- tow lines and gear for disabled vehicles recovery;
- lifting crane, welding equipment and on-vehicle tool kit for tank repair and servicing;
- cargo platform for transportation of spare parts and materials necessary for repair;
- bulldozer blade for excavation and rubble clearing operations.

The BREM-1 vehicle is based on the T-72 tank chassis. It is armed with a 12.7mm machine gun. The vehicle is fitted with an NBC protection system, an automatic fire-fighting system. The BREM-1 is equipped for fording water obstacles along the bottom.

Basic specifications

Weight, t	41
Crew	3
Engine	V-84MS diesel
Engine output, hp	840
Maximum speed on highway, km/h	60
Cruising range on highway with extra fuel tanks, km	700
Special equipment:	
lifting crane:	
lifting capacity, t	12
pull winch:	
thrust, t	up to 25
auxiliary winch:	
thrust, kg	up to 580
electric welding equipment	available

BREM-80U

Armoured Repair
and Recovery Vehicle



Mission

The BREM-80U armoured repair and recovery vehicle is based on the T-80U tank chassis. The vehicle is designed for recovery of damaged and disabled armoured vehicles and field repair and servicing of T-80U tanks.

Equipment

The BREM-80U carries the following special equipment:

- pull winch, rigging arrangement and

anchorage for tugging of stuck armoured vehicles;

- tow lines and gear for disabled vehicles recovery;
- lifting crane, welding equipment and on-vehicle tool kit for T-80U tank repair and servicing;
- cargo platform for transportation of spare parts and materials necessary for repair;
- bulldozer blade for excavation and rubble clearing operations.

Basic specifications	
Combat weight, t	46
Crew	4+1
Engine type and output, hp	gas turbine, 1,250
Max speed, km/h	70
Fuel endurance, km	500
Armament	12.7mm KORD machine gun
Special equipment:	
Main winch:	
- thrust, t	35
- thrust with four snatch blocks, t	140
Auxiliary winch:	
- thrust, t	30
Crane:	
- lifting capacity, t	18
- lifting capacity with one snatch block, t	30
Welding equipment	available

BREM-L

Armoured Repair and Recovery Vehicle



Mission

The BREM-L armoured repair and recovery vehicle is designed to recover lightweight damaged vehicles under enemy fire, and provide assistance to crews in repairs and maintenance in field conditions.

Capabilities

The BREM-L is capable of:

- recovering stuck vehicles;
- towing controlled and uncontrolled vehicles in various terrain and afloat;
- carrying out repair works (welding, cutting, lifting) when preparing vehicles for recovery or replacing units and assemblies;
- replacing its own power plant;
- transporting cargo on the jib crane within the repair depot;
- carrying out earthmoving operations when constructing repair bases and fortifications,

and preparing vehicles for recovery;

- transporting IFV spare parts and power units.

Basic specifications

Vehicle weight, kg	18,700
Crew	3+2 (reserve)
Engine:	
type	multifuel diesel
power, hp	450
Max speed, km/h:	
road	71.5
afloat	9
Fuel endurance, km	600
Armament	7.62mm machine gun
Main winch pull capacity, tf	14-16
Crane lifting capacity, tf	5 (11 with pulley blocks)
Welding equipment	for welding and cutting steel and aluminium alloys

BREM-K

Armoured Repair and Recovery Vehicle



Mission

The BREM-K armoured repair and recovery vehicle is a wheeled amphibious vehicle designed to provide logistic support for the units equipped with the BTR-80 type wheeled armoured personnel carriers.

Basic specifications

Vehicle weight, kg	14,500
Crew	4
Engine power, hp	260
Max speed, km/h:	
road	80
afloat	9
Fuel endurance, km	600
Armament	7.62 mm machine gun
Special equipment:	
Non-pivoting crane loading capacity, kgf	1,500
lifting device	winch
Pivoting crane loading capacity, kgf	800
lifting device	hand-operated winch
Winch	
pull capacity, kgf :	
without pulley-block	4,400 – 6,000
with pulley-block	15,000
Welding equipment	available

Features

The vehicle supports repair works using the cargo lifting crane and electric welding system. It can facilitate recovery of moderately stuck vehicles, and towing of wrecked vehicles both on the ground and afloat. Also, it ensures a round-the-clock technical monitoring capability and helps crews to carry out maintenance and repair.

The BREM-K is based on the BTR-80 chassis. The vehicle is fitted with the turret-mounted 7.62mm PKT machine gun, NBC protection system, and automatic fire-fighting equipment.

The vehicle uses a winch for self-recovery and recovery of stuck and sunken vehicles. The vehicle possesses an improved stability with lowered hydraulically operated earth spades.

A set of tools and accessories incorporates a rigid coupler for towing uncontrolled vehicles.

Spare parts are transported on a special platform attached to the roof of the vehicle.