



EXCALIBUR ARMY

MILITARY
VEHICLES

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PROTECT YOUR FUTURE

OUR MISSION

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PROTECT YOUR FUTURE



We believe in a peaceful world where people are free to live by their traditions and feel safe so they can live to the full extent of their dreams. Yet freedom and security are values that need to be protected.

EXCALIBUR ARMY designs, develops and produces a wide range of military vehicles and equipment. We strive to offer only high quality products and provide a variety of services for our customers all around the world. Our production and repair facilities have decades long tradition that reaches back to 1950s. All these years we have never ceased to understand the importance of military industry for national and international security and we are still standing proud by the code that of freedom in defence of which so many lives were lost.

Just as the soldiers of today, we would never wish for history to repeat. We admire their motivation, we are grateful for their determination and thankful for their service. Our first mission is to equip and protect those who have decided to protect you, your future, your world, your way of life and your peaceful traditions and values.

We are here to help you protect everything that is dear to you.

EXCALIBUR ARMY



MAIN BATTLE TANKS



The main battle tanks delivered by EXCALIBUR ARMY are all based on former Soviet tank models that were introduced in the second half of 20th century. Our company has just as long tradition in producing, repairing, renovating and modernizing T-55 and T-72 models as we have provided these services for Czechoslovak armed forces and other Warsaw Pact armies including the Soviet Union ever since after the World War II. Our MBTs can fulfill the tasks required at the battlefield of today. Despite the existence of advanced modern battle tanks, assymetric conflicts are still unfortunately an every day reality in many parts of the world and EXCALIBUR ARMY tanks are an economic solution for peace keeping in these troubled areas.

BALLISTIC
REINFORCEMENT

Crew protection greatly enhanced with minimal negative effects on vehicle mobility.

REACTIVE ARMOUR

Original Czech-made DYNA explosive armour segments.

STRONGER ENGINE

New V-84 engine has 45 kW higher output than original V-46-6 model.

BETTER OPTICS

Upgraded optical and observation systems.

REMOTELY
CONTROLLED AA MG

Original manual operated mount replaced with remote control manipulator.

T-72 SCARAB

A LEGEND, REINFORCED AND ENHANCED TO WITHSTAND THE MODERN BATTLEFIELD.

3
CREW

60_{KM/H}
⌚

5,000_M
🏹

EA

The **T-72 SCARAB** is EA's modernized version of well known and still widely used T-72 medium battle tank.

SCARAB is designed for contemporary and assymetric conflicts and also missions against enemy equipped with portable anti-tank weapons such as RPGs or TOWs. Its enhanced crew protection, engine output and observation systems offer wider operational capabilities and longer life cycle.

SCARAB presents a great affordable solution both for government procurement and army maintenance agenda with excellent value for money ratio.

We can also offer other modernization aspects per the customer's preference, including i.e. new engine type, new tracks, modern aiming devices, more areas covered with a reactive armour, meteo sensors, new fire-suppression system and more.



PARAMETERS

weight		43 t
dimensions	L	9,530 mm
	W	3,590 mm
	H	2,190 mm
engine	type	V-84
	output	618 kW
mobility	top speed - on road	60 km/h
	top speed - off road	45 km/h
	cruising range	500 km
	fording depth (instant)	1.2 m
	gradient	30 °
	side slope	25 °
	vertical obstacle	0.85 m
	trench crossing	2.8 m

V-84

12-CYLINDER
V 60 DEGREES
DIRECT INJECTION
MULTIFUEL
4 STROKE
WATER COOLED



SPECIFIC PARAMETERS

armament	main	2A46 / 125 mm	39 rounds
	secondary	PKT / 7.62 mm	2,000 rounds
		NSVT / 12.7 mm	300 rounds

PROVEN ARMAMENT

Widely used, proven and reliable guns.

STANDARD T-72 PLATFORM

Well available support thanks to standardization as more than 25,000 units were produced.

MOBILITY

Swift acceleration and good maneuvering in tough terrain.

UPGRADES AVAILABILITY

Many upgrades available - including reactive armour, night vision or laser warning.

T-72/T-72 M1

SOLID AND PROVEN BATTLE TANK FOR STANDARD MISSION SUPPORT.

3
CREW

60_{KM/H}
⌚

5,000_M
🚀

EA

Renowned classic tank with extensive logistic support availability due to its decades long history of production and successful use by over 40 countries.

Apart from the standard armament consisting of a main gun, coaxial anti-infantry machine gun, secondary anti-aircraft gun and smoke dischargers the tank can be fitted with a selection of fire control, passive protection, communication and observation systems.

Its economical availability and logistical advantages make a T-72 a very good choice for security and armed conflict mission support.

T-72M1

The T-72 tanks are available in several variants.



DECISIVE FIREPOWER

The 125 mm smoothbore gun 2A46 can fire armour-piercing fin-stabilised discarding sabot (APFSDS), high-explosive anti-tank (HEAT) and high-explosive fragmentation (HEF) projectiles.

SPECIFIC PARAMETERS

armament	main	2A46 / 125 mm	39 rounds
	secondary	PKT / 7.62 mm	2,000 rounds
		NSV / 12.7 mm	300 rounds

V-46

12-CYLINDER
V 60 DEGREES
DIRECT INJECTION
MULTIFUEL
4 STROKE
WATER COOLED



PARAMETERS		T-72	T-72 M1
weight		41t	43 t
dimensions	L	9,530 mm	9,530 mm
	W	3,460 mm	3,590 mm
	H	2,190 mm	2,190 mm
engine	type	V-46	V-46-6
	output	573 kW	573 kW
mobility	top speed - on road	60 km/h	60 km/h
	top speed - off road	45 km/h	45 km/h
	cruising range	460 km	460 km
	fording depth (instant)	1.2 m	1.2 m
	gradient	30 °	30 °
	side slope	25 °	25 °
	vertical obstacle	0.85 m	0.85 m
	trench crossing	2.8 m	2.8 m

ARMAMENT

Main gun, anti aircraft
and 2 light machine guns.

T-55 PLATFORM

Excellent technical support
availability and spare parts
supply.

MOBILITY

Good performance in sloped
terrain.

AM2 VERSION UPGRADE

Many upgrades
available - including reactive
armour, night vision or laser
warning.

T-55

MAIN BATTLE TANK WITH GREAT ECONOMY OF USE

4

CREW

50

KM/H

4,000

M

EA

The T-55 tank with a long production history is still available for specific mission support.

As other earlier generation vehicles in our portfolio it presents a very economical choice for armed forces that need to extend its operability against an enemy with less advanced technological means and weaponry.

Fair crew protection, maneuverability, reliable engine and arms of a standard T-55 tank can be improved with a set of enhancements coming with model T-55 AM2 – e.g. laser sights, infrared rangefinder and KLADIVO fire control system.



PARAMETERS

weight		38 t
dimensions	L	9,000 mm
	W	3,270 mm
	H	2,350 mm
engine	type	V-55
	output	427 kW
mobility	top speed - on road	50 km/h
	top speed - off road	20 km/h
	cruising range	500 km
	fording depth (instant)	1.4 m
	gradient	32°
	side slope	30°
	vertical obstacle	0.8 m
	trench crossing	2.7 m

V-55 AM2 ENGINE -
AVAILABLE UPGRADE

12-CYLINDER
V 60 DEGREES
DIRECT INJECTION
MULTIFUEL
4 STROKE
WATER COOLED



SPECIFIC PARAMETERS

armament	main	D10-T2SA/SK / 100 mm	45 rounds
	secondary	2× PKT / 7.62 mm	2,000 rounds
	optional	1× DShKM / 12.7 mm	300 rounds



SELF-PROPELLED HOWITZERS



EXCALIBUR ARMY offers a range of self-propelled howitzer class artillery guns with 122, 152 and 155 mm calibre available.

Most of our howitzers are mounted on a wheeled original Tatra chassis and therefore are suitable for high speed travel on road as well a swift deployment in rough terrain.

This increases the safety of the crew that often needs to carry out the given task and leave the firing post as soon as possible to avoid enemy countermeasures.

Our howitzer systems are proved by active duty in a number of defence forces.

QUICK DEPLOYMENT

High mobility in harsh weather and difficult terrain.

HIGH FIRING ACCURACY

Inertial navigation and muzzle velocity radar.

FIRE CONTROL SYSTEM

Advanced aiming, diagnostics and firing automation.

MRS

Multiple round simultaneous impact.

GOOD
TRANSPORTABILITY

Apart from conventional road/rail traffic, the EVA howitzer can be transported in Hercules C130 aircraft.

EVA

FAST, LIGHT AND EFFECTIVE SELF-PROPELLED ARTILLERY SYSTEM

★
NEW
PRODUCT

1+2
CREW

80_{KM/H}
⌚

41_{KM}
MRSI 🚀

EA

EVA is a new truck-mounted 155 mm howitzer reflecting the requirements for modern artillery to minimize the time it takes for a weapon to acquire action position, fire and leave the post to prevent enemy retaliation.

The standard indirect fire is featured with digital map processing for better autonomy, but also advanced command integration.

EVA is also capable of direct fire thanks to digital and **thermal cameras and laser range finder**.

155 mm CALIBER

Any NATO 155 mm caliber ammunition can be used for firing.



ADVANCED COMMAND INTEGRATION

The EVA howitzer is equipped with a modern fire control system that greatly enhances its combat value. Its integrated communication system allows swift processing of orders from battalion command vehicle.



REARVIEW OF GUN WITH CHARGER

Easy and quick access for maintenance and service.



SPECIALLY DESIGNED ARMoured CAB

Reinforced cabin provides protection to the crew.

SPECIFIC PARAMETERS

armament	main	155 mm howitzer
	firing range	5,000-41,000 m
	elevation	-3.5° / 75°
	traverse	± 40°
	rate of fire – 1 st minute	5/min.
	rate of fire – sustained	4/min.
	carried ammunition	24

PARAMETERS

weight		20.2t
dimensions	L	11,200mm
	W	2,550 mm
	H	3,330 mm
engine	type	Tatra T3C-928-90, 8V
	output	300kW
mobility	top speed - on road	80km/h
	top speed - off road	35 km/h
	cruising range	700 km
	fording depth (instant)	1.2m
	gradient	35°
	side slope	20°
	vertical obstacle	0.45 m
	trench crossing	1.9 m

BALLISTIC PROTECTION

Cabin according
to STANAG 4569 Level I.

ADVANCED CONTROLS

Automatic guidance
and digital weapon control
systems.

ON-BOARD DIAGNOSTIC

Integrated dignostic system
with automatic record
of operating units.

CREW COMFORT

High performance heating,
A/C and NBC filtration
system.

EXTRA POWER

Auxiliary power unit
is available, including
a hydraulic pump.

DANA M2

LATEST AND MOST ADVANCED VARIANT OF THE 152 MM
DANA VZ. 77 SELF-PROPELLED GUN HOWITZER

★
NEW
PRODUCT

1+4
CREW

80_{KM/H}
⏱

25.5_{KM}
🎯

EA

The 152 mm DANA vz. 77 self-propelled gun howitzer has gone through a major modernization presenting the most recent **DANA M2** system featuring high speed in taking up and leaving the firing position, greater accuracy and excellent hard terrain crossability.

Thanks to the new more resistant cabin and the NBC filtration system the **DANA M2** provides the crew with the highest level of comfort and protection. The newly implemented automatic guiding system allows fast and fully-automatic weapon adjustment into fire position.

NEW PRODUCT

Coming in 2018



NEW CABIN

Tailor-made low cabin with ballistic protection can be fitted with the up-to-date fire control system.



FASTER DEPLOYMENT

The supports deploy faster and allow for a faster assuming and leaving of a fire position, therefore reduce the exposure to enemy counter-battery fire.

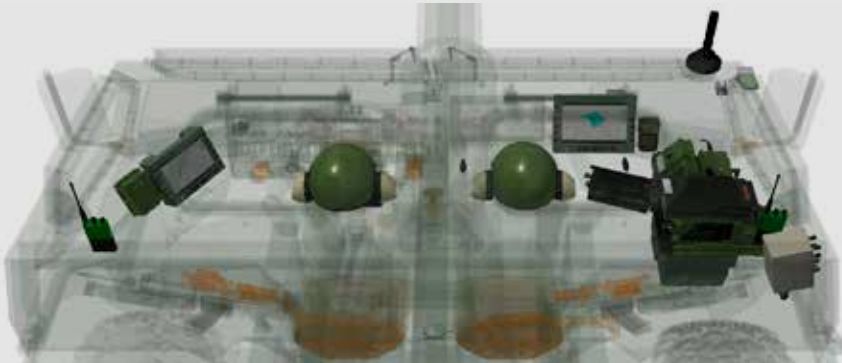
DANA M2 SYSTEM

is equipped with a special A.S.A.P. system (Automatic Setting of Action Position) and ammunition managment, further enhancing the speed of operation and overall system effectivity.



INTEGRATED COMMAND

Deployment of C2I elements in the driver's and commander's cabin.



PARAMETERS

weight		30.2t
dimensions	L	11,456 mm
	W	3,000 mm
	H	3,350 mm
engine	type	Tatra T3-930-52M, V12
	output	265 kW
mobility	top speed - on road	80 km/h
	top speed - off road	25 km/h
	cruising range	600 km
	fording depth (instant)	1.4 m
	gradient	30°
	side slope	15°
	vertical obstacle	0.6 m
	trench crossing	2.0 m

SPECIFIC PARAMETERS

armament	main	152.4 mm howitzer
	firing range	20,000 m (25,500 m with DN1CZ ammunition)
	elevation	-4° / 70°
	traverse	±225°
	rate of fire – 1 st minute	5/min.
	rate of fire – sustained	4/min.
	carried ammunition	40-60
	secondary weapon	12.7 mm NSV anti-aircraft machine gun

BALLISTIC COMPUTER

Enhanced fire control system via integrated inertial navigation and fire elements calculation.

IMPROVED CREW COMFORT AND PROTECTION

A/C, high performance heating, camera system, better view, bulletproof glass

SIMPLE HANDLING

Upgraded and simplified vehicle and superstructure operation.

TATRA-NORGREN

Original semi-automatic gear-shifting system.

DANA M1

MODERNIZED VARIANT OF THE 152 MM DANA VZ. 77 SELF-PROPELLED GUN HOWITZER

1+4
CREW

80_{KM/H}

25.5_{KM}

TATRA

The **DANA M1** is an upgraded variant of the 152 mm DANA vz. 77 self-propelled gun howitzer featuring high rate of fire, greater accuracy and excellent hard terrain crossability.

The vehicle handling is much easier and reliable as compared to the previous weapon variant.

Over its parent system it features especially servo-system ZF with auxiliary cylinder, electronic gear shifting, upgraded cabin with bullet-proof glass and better ergonomics, BLACKOUT feature, modifications to the engine, new clutch, independent heater and AC, and very importantly, optionally also FCS and APU or reverse camera, NV camera for the driver or electronic inclinometer.



THE MODERNIZED VERSION FEATURES

The new M1/M1 CZ versions feature many upgrades for crew comfort, safety and especially increased howitzer effectivity.



NEW CABIN

The new comfortable cabin can be fitted with the up-to-date fire control system.

EASY RE-ARMING

The weapon can be easily re-armed with new ammunition. The DANA has a roof-mounted crane to assist ammunition loading.



PARAMETERS		
weight		29.3t
dimensions	L	11,156 mm
	W	3,000 mm
	H	3,530 mm
engine	type	T3-930-52, V12
	output	265 kW
mobility	top speed - on road	80 km/h
	top speed - off road	25 km/h
	cruising range	600 km
	fording depth (instant)	1.4 m
	gradient	30°
	side slope	15°
	vertical obstacle	0.6 m
	trench crossing	1.4 m

SPECIFIC PARAMETERS		
armament	main	152.4 mm howitzer
	firing range	20,000 m (25,500 m with DN1CZ ammunition)
	elevation	-4° / 70°
	traverse	±225°
	rate of fire – 1 st minute	5/min
	rate of fire – sustained	5/min (2/min with manual loading)
	carried ammunition	40-60
	secondary weapon	NSV 12.7 mm Heavy Anti-Aircraft Machine Gun

SHKH VZ. 77 DANA

THE ORIGINAL DANA SELF-PROPELLED GUN HOWITZER
MODEL 77

TATRA CHASSIS

Great negotiation of rough terrain - typical advantage of the unique TATRA concept.

AUTOMATIC RELOADING

Primary reloading system is fully automatic.

GOOD FIREPOWER

Very long range, outstanding accuracy and firing rate.
Large number of additional carried ammo.

1+4
CREW

80 KM/H

20 KM

I-I
TATRA

EA

The 152 mm wheeled self-propelled gun howitzer designated „vz. 77 DANA“ is a wheeled combat vehicle armed with the 152 mm gun.

The howitzer has been designed to provide fire support, neutralize enemy firing positions and destroy enemy positions by indirect fire. It is ranked amongst the most traditional and well-proven artillery systems due to the extensive in-service history and production that commenced in the 1970’s.

The number of howitzers produced is around 800 and thanks to the compatibility with its successors it is still in service as one of the leading active and effective battle-proven military system.



The DANA has a crew of five with the driver position on the left side in front crew cab with the commander to his right each are equipped with a single hatch on the roof that opens forward There is two small windows at the front of the vehicle which can be covered by shutters. The other three members of the crew are located in the turret with the gunner and loader on the left and ammunition handler on the right. There is one single door on each side of the turret. The DANA is fully protected against firing of small arms and shell splinters.



VERSATILE AUTOLOADER

DANA's unique feature is that its autoloader is able to load a shell and a cartridge in any elevation of the barrel.

PARAMETERS		
weight		29.3t
dimensions	L	11,156 mm
	W	3,000 mm
	H	3,500 mm
engine	type	Tatra 3-930.52, V12
	output	265 kW
mobility	top speed - on road	80 km/h
	top speed - off road	25 km/h
	cruising range	600 km
	fording depth (instant)	1.4 m
	gradient	30°
	side slope	15°
	vertical obstacle	0.6 m
	trench crossing	1.4 m

SPECIFIC PARAMETERS		
armament	main	152.4 mm howitzer
	firing range	20,000 m (25,500 m with DN1CZ ammunition)
	elevation	-4° / 70°
	traverse	±225°
	rate of fire – 1 st minute	5/min
	rate of fire – sustained	5/min (2/min with manual loading)
	carried ammunition	40-60
	secondary weapon	DSHk 1938 12.7 mm Heavy Anti-Aircraft Machine Gun

2S1 GVOZDIKA

LOW WEIGHT AND LOW HEIGHT

The 2S1 Gvozdika can be transported by air.

NIGHT VISION SYSTEMS

The vehicle is equipped with optical electronic night vision systems.

AMPHIBIOUS

The vehicle has ability to swim and ford water obstacles.

MANEUVERABILITY

360° traverse of the gun.

HIGH-MOBILITY TRACKED SELF-PROPELLED HOWITZER WITH EXTENSIVE IN-SERVICE TRADITION

4
CREW

50_{KM/H}
⌚

15.2_{KM}
🏁

The 2S1 GVOZDIKA is an amphibious light-armoured artillery system mounted with the 122 mm howitzer gun located in the turret based on the MT-LB armoured personal carrier chassis.

The main armament is the 2A31 gun.

The 2S1 is equipped with mechanical re-loading system allowing for the howitzer gun to fire up to 5 rounds per minute.



AIMING

Aiming is provided via an independent PG-2 sights.



THE 2S1 GVOZDIKA

System is operated by crew of four, including commander, gunner, loader and driver.



PROTECTION FOR THE CREW

Hull and turret are welded from steel armor. It provides protection for the crew against small arms fire and artillery shell splinters. It is fitted with NBC protection system.

PARAMETERS

weight		15.7 t
dimensions	L	7,260 mm
	W	2,725 mm
	H	2,850 mm
engine	type	JAMZ-238N
	output	223 kW
mobility	top speed - on road	50 km/h
	top speed - off road	27 km/h
	cruising range	500 km
	fording depth (instant)	swimming ability
	gradient	35°
	side slope	25°
	vertical obstacle	0.8 m
	trench crossing	2.2 m

HIGH MOBILITY

2S1 Gvozdika has outstanding terrain mobility parameters, swimming ability and is easy to transport.

SPECIFIC PARAMETERS

armament	main gun	122 mm 2A31 howitzer
	firing range	15,200 m
	elevation	-3° / 70°
	traverse	360°
	rate of fire – direct	4-5/min
	rate of fire – indirect	2/min
	carried ammunition	35+5



EXCALIBUR
ARMY

MULTIPLE LAUNCH ROCKET SYSTEMS



EXCALIBUR ARMY produces a range of multiple launch rocket systems. Our **MLRS vehicles** are built on the unique **Tatra** chassis which allows them to pass through very difficult terrain with certainty and at surprising speed. The launcher platform is derived from the well-known, proven and widely used **RM-70 and BM-21 MLRS systems**. To allow fast and accurate firing, our **MLRS vehicles** can be equipped with a **fire control system** – computing, inertial navigation and communication systems that enhance both the independent task management and multiple joint artillery units coordination.

Apart from the new **MLRS production**, we also specialize in modernization of existing technology to allow our customers continuous use of their current undercarriage and superstructure platforms.

FIREPOWER

aExtensive area impacted by a volley of rockets.

SHORT TIME

Fast loading of second volley of shells in re-loading device (30-36 s) their fire preparation (1.5-2.5 min).

AIMING ENHANCEMENT
OPTION

Semi-automatic aiming with higher guiding speed or basic guiding via joystick or manual drive.

FIRE CONTROL SYSTEM

FCS optionally completed with inertial navigation or advanced communication equipment.

NEW TATRA T 815-7
CHASSIS

The carrier vehicle is the newest generation of TATRA military vehicles with the exceptional terrain handling, and reliability.

RM-70 VAMPIRE 4D 8x8

FOUR-DOOR VARIANT OF THE MODERN RM-70 VAMPIRE
MULTIPLE ROCKET LAUNCHER SYSTEM

1+3
CREW

UP TO 40 KM

I-H

TATRA

EA

The RM-70 VAMPIRE 4D 8x8 is a mobile platform for the 40-round high explosive fragmentation artillery system providing concentrated fire support to the troops covering large target areas at ranges depending on the type of used shell. The RM-70 VAMPIRE 4D 8x8 is a hugely upgraded variant of the original Czechoslovak RM-70 GRAD MLRS with a re-loading device.

The rocket launcher can fire both single rounds and volleys from the cab or via remote control device from a nearby trench. The principal mode of fire is indirect fire, direct fire can be performed only within the range determined by traverse and elevation sensors. The original T-813 chassis was replaced with the T-815 chassis with air axle suspension. Two-door variant is also available.

The vehicle can be equipped with a fire control system that transforms the system into a high-end solution for the modern battlefield.

CONTROL BOXES

fitted with the latest electronic components



AREA OF EFFECT

single round: 3,000 m²
volley (40 rockets): up to 30,000 m²



RE-LOADING DEVICE

The unique RM-70 re-loading device allows for an unprecedented rate of fire - 80 rockets in 2 minutes.

MODERNIZED FIRE CONTROLS

Firing modes with FCS:

- fully automatic
- semi-automatic
- manual
- emergency mode of fully manual aiming by the use of steering wheel



PARAMETERS		
weight		25.7 t
dimensions	L	9,550 mm
	W	2,550 mm
	H	2,930 mm
chassis		T 815-7T3RC1 8x8.1
engine	type	Tatra T3C-928.90, V8
	output	300 kW
mobility	top speed - on road	85 km/h
	top speed - off road	30 km/h
	cruising range	700 km
	fording depth (instant)	1.4 m
	gradient	27°
	side slope	18°
	vertical obstacle	0.6 m
	trench crossing	2.1 m

SPECIFIC PARAMETERS

armament	main	122 mm JROF rockets /40+40/ max. range 20.4 / 40.1km iaw type of rocket
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FIREPOWER

aExtensive area impacted by a volley of rockets.

SHORT TIME

Fast loading of second volley of shells in re-loading device (30-36 s) their fire preparation (1.5-2.5 min).

SIMPLIFIED WEAPON GUIDING

Electric motor-driven or manual drive.

CREW COMFORT

Easier and safer vehicle handling by the driver, semi-automatic Norgren gear-shifting system and better comfort of the crew when travelling.

EXTRA POWER AVAILABLE

28 V and 6.5 kW Auxiliary Power Unit

RM-70 M1 8×8

UPGRADED VARIANT OF THE RM-70 GRAD MLRS

1+3
CREW

20.4_{KM}

HI

TATRA

EA

The RM-70 M1 8x8 is a mobile platform for the 40-round high explosive fragmentation artillery system providing concentrated fire support to the troops over large target areas covering the range of 20 381 m.

The Multiple Rocket Launcher is an upgraded variant of the original Czechoslovak RM-70 GRAD MLRS with a re-loading device.The rocket launcher can fire both single rounds and volleys from the cab or via remote control device from a nearby trench.

The principal mode of fire is indirect fire, direct fire can be performed only within the range determined by traverse and elevation sensors.

The original T 813 chassis was replaced with the T 815 chassis. Latest communication equipment and the C4I command and control system is an option.



RM-70 M1 BATTERY

When equipped with the FCS, the vehicle can function alone or traditionally for increased firing volume as a part of a larger battery.

OPTIONAL CABIN VERSION

STANDARD / SOFT / ARMoured

CONTROL BOXES

fitted with the latest electronic components

AREA OF EFFECT

single round: 3,000 m²
volley (40 rockets): up to 30,000 m²



PARAMETERS

weight		25.9 t
dimensions	L	9,250 mm
	W	2,590 mm
	H	3,050 mm
chassis		T 815 - VPR9M 29 265 8x8.1R with armoured cab and filtration system
engine	type	Tatra T3-930-50M , V12
	output	264 kW
mobility	top speed - on road	85km/h
	top speed - off road	25km/h
	cruising range	1,000 km
	fording depth (instant)	1.4 m incl. fording wave
	gradient	27°
	side slope	18°
	vertical obstacle	0.5 m
	trench crossing	2.0 m



FIRE CONTROL SYSTEM

- Firing modes:
- fully automatic
 - semi-automatic
 - manual
 - emergency mode of fully manual aiming by the use of steering wheel

SPECIFIC PARAMETERS

armament	main	122 mm JROF rockets /40+40/ max. range 20.4 / 40.1 km iaw type of rocket
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TATRA T 815 CHASSIS

The TATRA T 815 is a proven and reliable vehicle with good availability of spare parts.

FIREPOWER

Extensive area impacted by a volley of rockets.

OPTIONAL WEAPON
SYSTEM GUIDING

Semi-automatic with higher guiding speed or basic guiding via joystick or manual drive.

FIRE CONTROL SYSTEM

FCS optionally completed with inertial navigation or advanced communication equipment.

NEW CONTROL BOXES

Fitted with the latest electronic components.

SEMI-AUTOMATIC
NORGREN GEAR-SHIFTING SYSTEM

Easier and safer vehicle handling when driving.

BM-21 MT 4x4

4x4 WHEELED MLRS BASED ON TATRA CHASSIS FOR HEAVY TERRAIN DEPLOYMENT

1+2
CREW

UP TO 40 KM

TATRA

EA

The BM-21 MT is a mobile platform for the 40-round high explosive fragmentation artillery system providing concentrated fire support to the troops over large target areas covering ranges depending on the type of used shell. It is an upgraded variant of the Russian BM-21 Multiple Rocket Launcher. The rocket launcher can fire both single rounds and volleys from the cab or via remote control device from a nearby trench.

The principal mode of fire is indirect fire, direct fire can be performed only within the range determined by traverse and elevation sensors.

The original URAL chassis was replaced with the T-815-7 chassis with air axle suspension.

NEW TATRA T 815-7 CHASSIS

The carrier vehicle is the newest generation of TATRA military vehicles with exceptional terrain handling.



PARAMETERS

weight		16.3t
dimensions	L	7,370mm
	W	2,550mm
	H	2,730mm (cab roof)
chassis		T815-7T3R21 4x4.1R with low cab
engine	type	Tatra T3C-928.81, V8
	output	270kW
mobility	top speed - on road	90km/h
	top speed - off road	30km/h
	cruising range	1,200km
	fording depth (instant)	1.5m
	gradient	45°
	side slope	20°
	vertical obstacle	0.6m
	trench crossing	0.9m

SPECIFIC PARAMETERS

armament	main	122 mm JROF /40 rockets/ max. range 20.4 / 40.1 km iaw type of rocket
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WELL PROVEN
BM-21 ANEW

Huge firepower of the legendary BM-21 packed in a 4x4 solution with an optional FCS that transforms the legacy system into a solution for the modern battlefield.



FIREPOWER

Extensive area impacted
by volley of shells.

OPTIONAL WEAPON
SYSTEM GUIDING

Semi-automatic with higher
guiding speed or basic guiding
via joystick or manual drive.

SIMPLIFIED WEAPON
GUIDING

FCS optionally completed
with inertial navigation
or advanced communication
equipment.

NEW CONTROL BOXES

Fitted with the latest
electronic components.

EASY SERVICE

Original URAL chassis
maintenance requirements.

BM-21 MU

UPGRADED VERSION OF THE URAL CHASSIS MLRS

1+2
CREW

|

20.4^{KM}


|



The **BM-21 MU** is a mobile platform for the 40-round high explosive fragmentation artillery system providing concentrated fire support to the troops over large target areas covering ranges depending on the type of used shell.

It is an upgraded variant of the Russian **BM-21 Multiple Rocket Launcher**.

The rocket launcher can fire both single rounds and volleys from the cab or via remote control device from a nearby trench.

The principal mode of fire is indirect fire, direct fire can be performed only within the range determined by traverse and elevation sensors.

AREA OF EFFECT

single round: 3,000 m²
volley (40 rockets): up to 30,000 m²



COMPLEX LOGISTIC SUPPORT

For our MLRS systems we also offer munition vehicles, battery command vehicles, vehicles for forward observers, battalion command vehicle, fuel trucks, mobile workshops and recovery vehicles.



PARAMETERS

weight		13.7t
dimensions	L	7,350mm
	W	2,490 mm/2,690 mm incl. rear-view mirrors
	H	3,090 mm
undercarriage		URAL-375D, 6x6
engine	type	ZIL 375, V8
	output	134,2 kW
mobility	top speed - on road	75 km/h
	top speed - off road	25 km/h
	cruising range	min. 600 km
	fording depth (instant)	1.5m incl. fording wave
	gradient	40°
	side slope	18°
	vertical obstacle	0.5 m
	trench crossing	0.6 m

OPTIONAL FIRE CONTROL SYSTEM FOR ALL EA MLRS SYSTEMS



COMMANDER'S TABLET

Ultra rugged robust military tablet. Capacitive 10" touchscreen. Vibration & shock resistant MIL-STD-810G approved. IP 65 environmental protection.



BATTERY COMMUNICATION SYSTEM

UHF military rugged radios with variable operation modes. VHF/AIR-VHF from 25 TO 146MHZ, STANAG 4204. COMSEC AES safe and secure voice and data communication. Range up to 5KM.



I-GEO

Autonomous inertial navigation. Designed for heavy artillery solutions.High reliability, ultra robust mechanical design (MIL STD 810E, 461D, 1275). Maintenance free. Pointing accuracy better than 2 mils.



GPS

– on board navigation GPS and Glonass frequencies. IP 67 environmental protection.Permanent in-time signal processing. Real time positioning with long-term measurements. Highest accuracy MIL standard.

SPECIFIC PARAMETERS

armament	main	122 mm JROF /40 rockets/ max. range 20.4 / 40.1 km iaw type of rocket
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ARMoured PERSONNEL CARRIERS AND INFANTRY FIGHTING VEHICLES



Our armoured APCs and IFVs comprise a range of tracked and wheeled vehicles for battle engagement, area control and a variety of tactical and special operations.

Our Šternberk facility is renowned for its history and experience in repairs, service, renovation, modernization and production of BMPs T-55/T-72 MBTs and other numerous armoured, artillery, engineering, military and special logistic vehicles. In the recent years we have successfully started to cooperate in cross-national projects, e.g. the PANDUR APC.

We also develop our own solutions for infantry support and mobility and we have lately introduced the MEXCA IFV or PATRIOT APC vehicles.

High level of protection, efficient controls and effective reliable weapon systems are at the core of our development engineering.

OPTIMAL CREW SAFETY
& COMFORT

Air-conditioning,
comfortable seats, hydraulic
ramp, independent wheel
suspension. Optimized STANAG
4569 and NBC protection.

DESIGNED FOR OFF-ROAD

High off-road mobility
capabilities, heavy duty
chassis, break steering, CTIS
and ADM for perfect power
delivery and great swimming
abilities.

EFFICIENT MOBILITY

Low fuel consumption
extends the cruising range
for easier long distance
deployment.

UPGRADES AVAILABILITY

A range of upgrades
for easier manoeuvrability
(e.g. automatic transmission),
firepower and protection
enhancement.

PANDUR II 8×8

MULTI-PURPOSE WHEELED ARMoured PERSONNEL
CARRIER FEATURING SUPERIOR OFF-ROAD MOBILITY.

✱

4+7

CREW

105

KM/H

10

KM/H

PANDUR vehicle was developed upon the Czech Army request but the platform has already been well-proven in the armies worldwide.

The amphibious wheeled armoured personal carrier with armour and waterproof body is capable of effective water gap, water reservoir or coastal water crossing. PANDUR vehicle has proven itself with superior off-road mobility, maneuverability and high reliability and resistance. In addition to the basic personal carrier function, the vehicle can be modified and fitted with various types of weapon stations up to 105 mm calibre, the mortar or other special equipment.

✱ Crew and troop capacity depends on the configuration. W/o turret the vehicle carries up to 2+12.



BALLISTIC PROTECTION

Level 1-4 / STANAG 4569

ANTI-MINE PROTECTION

Level 1-4 - STANAG 4569

AVAILABLE CONFIGURATIONS

- AMPHIBIOUS INFANTRY CARRIER
- INFANTRY FIGHTING VEHICLE
- MORTAR OR ATGM CARRIER
- COMMUNICATION VEHICLE
- RECONNAISSANCE VEHICLE (RADAR OPTIONAL)
- ENGINEERING VEHICLE
- ARMoured AMBULANCE
- COMMAND POST

PARAMETERS		
weight		18.7 t
dimensions	L	7,384 mm
	W	2,670 mm
	H	3,987 mm
engine	type	Cummins Diesel ISLe T450 HPCR
	output	335.6 kW
mobility	top speed - on road	105 km/h
	top speed - off road	32 km/h
	cruising range	700 km
	fording depth (instant)	1.5 m / swimming ability (AMPH configuration)
	gradient	35°
	side slope	30°
	vertical obstacle	0.6 m
	trench crossing	2.2 m

RCWS SAMSON MK II
ADVANTAGES

- under armor reloading
- low silhouette
- wide range of weapons portable
- optional ATGM and SGL effectors
- 360° traverse, -20° to +70° elevation (vehicle restrictions may apply)



SPECIFIC PARAMETERS		
armament (standard)	main	30 mm automatic cannon Mk 44 / SPIKE-LR ATGM
other options available	secondary	7.62 mm coax MG FN MAF (M240)
		76 mm SGL type Wegmann /8 units/

ON-ROAD/OFF-ROAD
MOBILITY

TATRA FORCE chassis,
clearance adjustment
on the go, automatic
transmission for exceptional
terrain performance, yet
vehicle is perfectly fit
for common road traffic.

VERSATILE PLATFORM

Mission kit can be modified
as per customer request.

PROTECTION

Crew comfort and safety -
A/C, NBC filtration system.

SAFETY & ENDURANCE

Fire-extinguishing system
for the cabin and the engine.

SUITABLE FOR EVERY
ENVIRONMENT

Air/Water cooled engine -
optional.

T 815-7 4x4 / PATRIOT

MULTI-PURPOSE PLATFORM FEATURING SUPERIOR OFF-ROAD
MOBILITY.

★
NEW
PRODUCT

6+
CREW

110_{KM/H}
⌚

II
TATRA

EA

The armoured tactical vehicle featuring high maneuverability is intended
for deployment with **Rapid Reaction Forces** to carry out reconnaissance
and patrol duties, especially during asymmetric missions, and further serving
as a carrier platform for light motorized units.

The vehicle, as a unified platform of vehicle family for defence and civil
safety applications, can be fitted with a wide range of mission kits - recon,
communication and information, command and staff, chemical, medical
and other.

BALLISTIC PROTECTION

3 - STANAG 4569



ANTI-MINE PROTECTION

2a/2b - STANAG 4569



PARAMETERS

weight		12.0 t
dimensions	L	6,100 mm
	W	2,225 mm
	H	2,700 mm
engine	type A	Cummins ISLe 9 370 / water cooled
	type B	Tatra T3C-928-90 / air cooled
	output A	210 kW
	output B	300 kW
mobility	top speed - on road	110 km/h
	top speed - off road	45 km/h
	cruising range	500 km
	fording depth (instant)	1.2 m
	gradient	45°
	side slope	32°
	vertical obstacle	0.5 m
	trench crossing	0.9 m

TATRA CHASSIS

Outstanding mobility and obstacle crossing capabilities
- high speed in rough terrain conditions. Variable ground
clearance thanks to air suspension system.

SPECIFIC PARAMETERS

armament	main	up to 14.5 mm RCWS
	options available	7.62 mm / 12.7 mm / 14.5 mm manned gun turret
		mortar (pick-up vehicle version)
		AG/SG launchers
		ATGM launchers

INCREASED PROTECTION

Level 2 or optionally even higher.

EASIER HANDLING

Automated transmission, decrease of driver's workload, easier vehicle handling.

ENLARGED INTERIOR

Bigger compartment and improved interior arrangement to transport the unit, advanced ergonomics, troops boarding and exit much more effective.

OPEN ARCHITECTURE

Enabled versatility to installation of weapon systems, passive and active protection, communication systems and other military technology.

PLATFORM CONSISTENCY

Spare parts and servicing procedures highly consistent with the original BMP-1 and BMP-2 platform, especially chassis and transmission mechanisms and vehicle turning mechanism.

BMP / MEXCA

MODERN, STRONGER, SAFER, YET WELL COMPATIBLE WITH BMP-1 AND BMP-2.

★
NEW
PRODUCT

3+6
CREW

65 KM/H

EA

The armoured tracked infantry fighting vehicle has been designed to transport infantry troops to the battlefield and to provide direct fire support, including engagement against enemy armoured vehicles.

Featuring the **increased level of ballistic protection**, high and easy maneuverability and possibility to fit wide range of special systems, the vehicle has been pre-determined for deployment at asyemtric missions.

The platform can be fitted with many different types of mission kits - recon, engineering, medical, recovery, workshop, communication and information, command and staff and other.

BALLISTIC PROTECTION

3 - STANAG 4569



ANTI-MINE PROTECTION

2a/1 - STANAG 4569



PARAMETERS

weight		18.8 t
dimensions	L	6,753 mm
	W	3,047 mm
	H	2,760 mm
engine	type	Caterpillar C9.3
	output	300 kW
mobility	top speed - on road	65 km/h
	top speed - off road	45 km/h
	cruising range	400 km
	fording depth (instant)	1.3 m
	gradient	35°
	side slope	30°
	vertical obstacle	0.7 m
	trench crossing	2.5 m

SPECIFIC PARAMETERS

armament	turrets	TURRA 30 turret
	options available	SAMSON MK II or DVK 30 gun turret
	weapons	Stabilized 30 mm 2A42 / CZ-30 autocannon
		7.62 mm PKT coaxial machine gun

BACK RAMP

Removes the disadvantage of the original solution and allows for easy entry by the troops.

MANOEUVRABILITY

Excellent manoeuvrability
and superior off-road
capability, high travel speed.

VERY EFFECTIVE VEHICLE

Highly reliable, ease
of control, simple design.

PROVEN DESIGN

Timeless concept
and the overall arrangement
whilst keeping
the low-silhouetted vehicle
profile.

AMPHIBIOUS CAPABILITY

Vehicle suitable
for immediate fording
and water obstacle crossing.

LIFE-CYCLE EFFICIENCY

Large spare parts availability.

BMP-1

A RENOWNED CLASSIC AND BATTLE PROVEN INFANTRY SUPPORT
VEHICLE.

3+8
CREW

6-23^{MM}
ARMOUR

65^{KM/H}

7^{KM/H}

EA

The BMP-1 is an amphibious tracked infantry fighting vehicle designed to transport the troops to the battlefield and to provide direct fire support, including engagement against enemy armoured vehicles.

The platform features high maneuverability and excellent off-road capability. With regard to the vehicle armament /73 mm 2A28 Grom gun firing HEAT rounds and launcher for the 9M14 Maljutka ATGM/ it is often classified as the „Tank Destroyer“.

AMPHIBIOUS CAPABILITY

The BMP-1 is amphibious, propelling itself in the water using its tracks, assisted by hydrodynamic fairings on the track upper side covers. Top swimming speed is 7 km/h.



PARAMETERS

weight		13t
dimensions	L	6,735 mm
	W	2,940 mm
	H	1,924 mm
engine	type	UTD-20
	output	220 kW
mobility	top speed - on road	65 km/h
	top speed - off road	45 km/h
	cruising range	600 km
	fording depth (instant)	swimming ability
	gradient	35 °
	side slope	25 °
	vertical obstacle	0.7 m
	trench crossing	2.0 m

SPECIFIC PARAMETERS

armament	main	73 mm semi-automatic gun 2A28
		9M 14M ATGM (Maljutka) / optionally with-out the launcher
	secondary	7.62 mm PKT coaxial machine gun



UTD-20

6-CYLINDER
V 120 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED

OT-64 / SKOT

SPACE FOR TROOPS

Enabling transport
of greater number
of troops/crew members.

EASY TO HANDLE

Easily maneuverable.

AMPHIBIOUS CAPABILITY

Vehicle is suitable
for immediate fording
and water obstacle crossing.

GOOD MOBILITY

Superior floating capabilities.
High road and off-road speed.

RUGGED AND EASY-TO-HANDLE VEHICLE, USED IN 15 COUNTRIES
OF EUROPE, AMERICA, ASIA AND AFRICA AS WELL AS FOR
UNITED NATIONS MISSIONS.

3+8
CREW

6-15^{MM}
ARMOUR

95^{KM/H}

9^{KM/H}

EA

The OT-64 SKOT /“medium wheeled armoured carrier“/ is an amphibious
armoured personnel carrier, developed jointly by Czechoslovakia and Poland.

The 8x8 buoyant four-axle platform featuring armoured and watertight hull
has been designed to transport the infantry to the battlefield.

The SKOT 2A variant also provides direct fire support /fitted with the armoured
movable gun turret from the BTR-60 PB armed with the 14.5 mm KPVT heavy
machine gun and the 7.62 mm PKT coax machine gun/.

LARGE CAPACITY

This armoured personnel
carrier has a crew
of 2-3 and accommodates
up to 18 fully-equipped
troops (non-turreted version)
- amount depending
on the version of the vehicle.



LAYOUT

The troop compartment
is located at the hull rear.
Soldiers dismount via rear
doors or roof hatches.
Commander and driver
dismount via their individual
side or roof hatches.
There are firing ports provided
for the troops.

PARAMETERS

weight		12.2 t
dimensions	L	7,440 mm
	W	2,500 mm
	H	2,060 mm / 2,780 mm with turret
engine	type	TATRA 928-14
	output	132.5 kW
mobility	top speed - on road	95 km/h
	top speed - swimming	9 km/h
	cruising range	700 km
	fording depth (instant)	swimming ability
	gradient	35 °
	side slope	43 °
	vertical obstacle	0.4 m
	trench crossing	2.0 m

SPECIFIC PARAMETERS

armament	main	14.5 mm KPVT heavy machine gun
	secondary	7.62 mm PKT coaxial machine gun



BRDM-2

LIGHTWEIGHT, HIGH-MOBILITY AND AFFORDABLE SUPPORT VEHICLE.

4
CREW

105_{KM/H}
⌚

10_{KM/H}
⌚

⌚

EA

The BRDM-2 is an amphibious armoured patrol vehicle featuring the 4x4 all-wheel drive conception. It has two pairs of belly wheels lowered by the driver to allow trench crossing.

The vehicle has been designed as light reconnaissance and command vehicle. The BRDM-2 well-proven platform was further deployed as a carrier of special mission kits intended mostly for combat reconnaissance and radiation and chemical reconnaissance and also as a carrier of fire support to combat arms, the 9P133 (9K11 Maljutka), 9P148 (9K113 Konkurs and 9K111 Fagot) ATGM and the 9P31M (9K31 Strela-1M) AAGM launching platform, artillery observation and other.

LAYOUT

The driver's and commander's stations are in the front of the vehicle, with the driver positioned on the left and commander on the right. Both of them sit in front of a bulletproof windscreen, which provides them with their primary view of the battlefield. When in combat, the windscreen can be additionally protected by twin shutters. armoured shutters.



HIGHLY MOBILE VEHICLE

It has two pairs of chain-driven belly wheels lowered by the driver, which allow trench crossing, and a centralized tire pressure regulation system, which can be used to adjust the tire pressure of all four tires or individual tires while the vehicle is in motion to suit to the ground conditions.

PARAMETERS

weight		7t
dimensions	L	5,750 mm
	W	3,415 mm
	H	2,310 mm
engine	type	Gaz-41 V8
	output	103 kW
mobility	top speed - on road	95 km/h
	top speed - off road	30 km/h
	cruising range	750 km
	fording depth (instant)	swimming ability
	gradient	60°
	side slope	30°
	vertical obstacle	0.4 m
	trench crossing	1.25 m

SPECIFIC PARAMETERS

armament	main	14.5 mm KPVT heavy machine gun
	secondary	7.62 mm PKT coaxial machine gun

GREAT TERRAIN PERFORMANCE

Amphibious at high travel speed. Wider trench crossing capability.

EASY ROAD DEPLOYMENT

High road speed and cruising range.

EASY TO PROCURE

Affordable vehicle and armament.

AMPHIBIOUS CAPABILITY

Vehicle suitable for immediate fording and water obstacle crossing.



EXCALIBUR
ARMY

MILITARY ENGINEERING VEHICLES



EXCALIBUR ARMY designs, develops and produces a range of military engineering vehicles for gap crossing, recovery and support missions. Though our primary customer target is the military, our solutions find use in civil engineering, post-conflict recovery and natural disaster relief.

For crossing both wet and dry gaps of even over 100 m we offer our own AM-70 EX and AM-50 EX bridge layers.

For the purposes of recovery of damaged vehicles, manipulation with debris and other objects or earth moving we have a wide range of tracked and wheeled vehicles available.

HIGH LOAD CAPACITY

MLC 70 load-carrying capacity according to STANAG 2021 ensures support to heavy or extremely heavy combat vehicles.

FLEXIBILITY –
INTERCONNECTABLE
BRIDGE SECTIONS

Gradual connection of bridge sections can span a gap up to 106 m wide.

BRIDGE SECTIONS
COMPATIBILITY

The new M-70 EX is compatible with former M-50 and M-70 EX generations.

MODERN HEAVY DUTY
TATRA T 815-7 CHASSIS

Ultimate terrain crossing and easy maintenance.

OPTIONAL CABIN
BALLISTIC PROTECTION

The cab can be optionally protected with an armour up to STANAG 4569 LEVEL II.

AM-70 EX / BRIDGE LAYER

THE NEW BRIDGE LAYING VEHICLE FEATURING MLC 70 HIGH LOAD CAPACITY BASED ON THE WELL-PROVEN TATRA CHASSIS.

★
NEW
PRODUCT

3
CREW

90^{KM/H}
⌚

TATRA



The **AM-70 EX** Bridge Laying Vehicle is a new mobile vehicle-launched bridge designed to provide the necessary maneuverability to military units by fast deployment over dry or water gaps, featuring above all the **MLC 70** class high load-carrying capacity. Thanks to the ability to interconnect individual bridge sections, the **AM-70 EX** offers an insuperable flexibility and a maximum width of spanned gap.

The **AM-70 EX** is a successor to the well-known successful **AM-50 EX** and conceptually also to the formerly produced and proven **AM-50** and **AM-50 B** vehicles still in use with many armed forces worldwide. The new scissor type 4-girder light construction of the **M-70 EX** bridge is also fully compatible with older bridge generations. Equipped with a full bridge deck and curbs the **AM-70 EX** bridge may also be applied in civil recovery operations or building industry and forestry.



DOZER BLADE
OPTION

Enables the vehicle to prepare the terrain for bridge deployment.

POWERFUL HYDRAULIC
SYSTEM

High-performance winch, simplified vehicle electrical equipment using the latest switches.



VARIABLE CAB

Two-door or four-door, standard or armoured – customized.

NEW PRODUCT

Coming in 2018

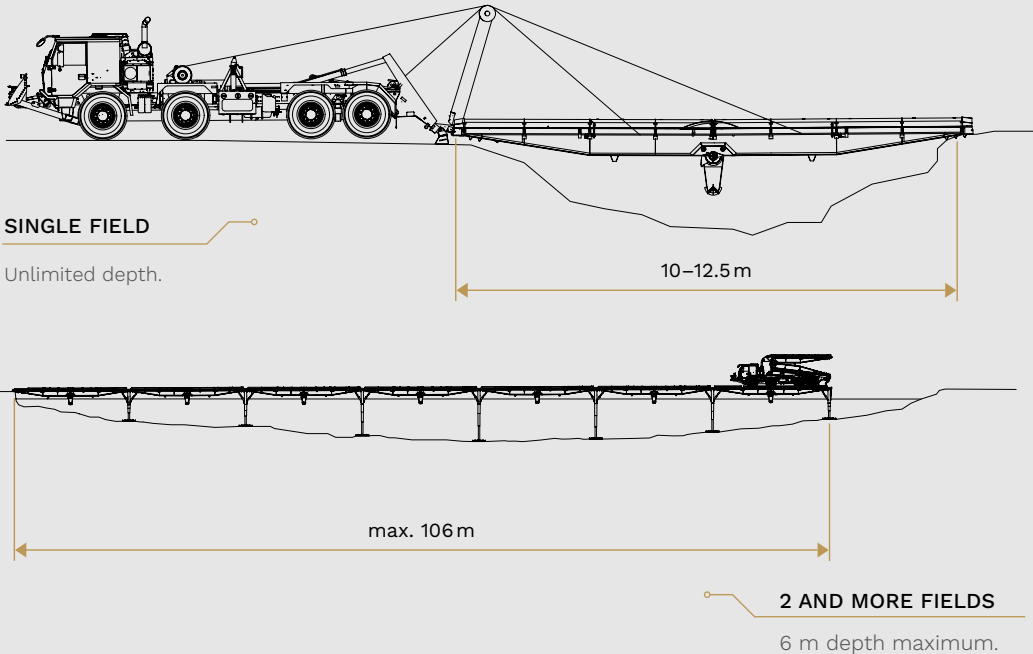
SPECIFIC PARAMETERS

Bridge field	load-carrying capacity	MLC 70
	length	13,500 mm
	width	4,300 mm
	travelling width	3,500 mm
Detachable trestle	height retracted	2,000 mm
	fully extended	6,000 mm
Vehicles per one set	4	



TATRA T3C-928.90

Powerful and reliable eight-cylinder, four-stroke, V-type, ch d TATRA Diesel engine.



PARAMETERS

weight		33t
dimensions	length	12,000 mm
	width	3,650 mm
	height	3,900 mm
engine	type	TATRA T3C-928.90
	output	300 kW at 1,800 rpm
mobilita	max. speed – road	90 km/h
	max. speed – off road	40 km/h
	cruising range (w/o jerry cans)	>500 km
	fording depth (instant/preparation)	1.2/1.5 m
	gradability	25°
	static side slope	20°
	vertical obstacle (no blade)	0.5 m
	trench crossing	2 m

SWIFT DEPLOYMENT

aA bridge section can be laid in just a few minutes.

RELIABILITY

Bridge is extremely sturdy and the supports feature unique hydraulic coils.

INTEROPERABILITY

AM-50 EX system can be fitted to previous models with no extra requirements.

HEAVY DUTY

Rigid chassis reduces torsion realted superstructure damage.

EARTH MOVING

Optional dozer blade for earth moving.

AM-50 EX / BRIDGE LAYER

UNIQUE SOLUTION FOR WIDE GAP CROSSING

3
CREW

85_{KM/H}
⌚

H

TATRA

≡

13.5-108M

EA

The **AM-50 EX** bridge layer vehicle is designed to overcome concave terrain obstacles, both dry and wet. This way it provides the necessary maneuverability to military units, featuring a MLC 50 class load-carrying capacity.

Each vehicle is fitted with a single bridge section of **13.5 m** length which is installed in a few minutes, allowing another vehicle to append a new one in order to cross a wider obstacle. Up to 8 sections in total can stretch over up to **106 m** wide gaps with its supports reaching into up to **6 meters** deep trenches.

Thanks to the durable and efficient chassis the vehicle can operatein rough and difficult terrain conditions and allow safe simultaneous crossing for both military vehicles and infantry.

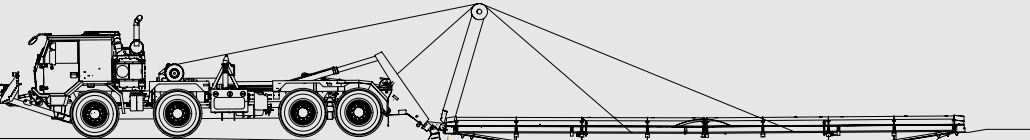


SPECIFIC PARAMETERS

Bridge field	load-carrying capacity	MLC 50
	length	13,500 mm
	width	4,000 mm
	maximum gradient	10°
	maximum crossfall	5°
Detachable trestle	height retracted	2,000 mm
	fully extended	6,000 mm
Vehicles per one set	4	

TATRA T 815-7 CHASSIS

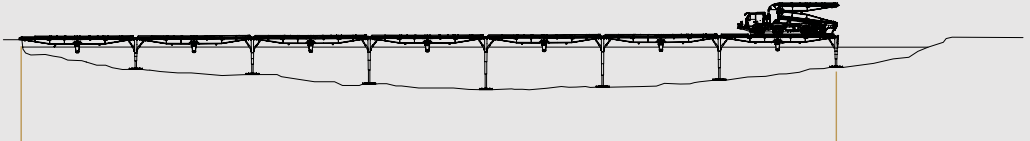
Modern, heavy-duty design. Ultimate terrain crossing and easy maintenance.



SINGLE FIELD

Unlimited depth.

10-12.5 m



max. 106 m

2 AND MORE FIELDS

6 m depth maximum.

PARAMETERS

weight		26.1t
dimensions	L	11,250 mm
	W	3,415 mm
	H	3,830 mm
engine	type	Tatra T3C-928.90
	output	300 kW
mobility	top speed - on road	85 km/h
	top speed - off road	40 km/h
	cruising range	500 km
	fording depth (instant)	1.2 m
	gradient	25°
	side slope	20°
	vertical obstacle	0.5 m
	trench crossing	2.0 m

AV-815-7 MAMMOTH

/ RECOVERY VEHICLE

HIGH MOBILITY HEAVY DUTY RECOVERY VEHICLE

★
NEW
PRODUCT

1+3
CREW

100_{KM/H}
⏻

II
TATRA

EA

The **Mammoth** vehicle is able to recover damaged armoured vehicles efficiently in a tactical environment and fulfill a wide range of further tasks that the combat engineers may face.

It is designed to lift and tow most types of current and future wheeled systems, overturn crashed vehicles, perform slope recovery and create access to unapproachable places.

Its **77 tm Hiab** crane provides unrivalled operating speed, precision and safety while the crew is safely protected inside the armoured cabin.



POWERFUL CRANE

The powerful crane can be used to recover vehicles, move objects or load/off-load cargo.

UNIVERSAL TOWING FORK

The rear fork can be utilized to tow wheeled vehicles - from trucks to APCs.



PARAMETERS

weight		35.5 t
dimensions	L	11,290 mm
	W	2,500 mm
	H	3,790 mm
engine	type	Deutz TCD 2015 V08 / Cummins ISXe600 30
	output	440 kW / 447 kW
mobility	top speed - on road	85 km/h
	top speed - off road	35 km/h
	cruising range	500 km
	fording depth (instant)	1.2 m
	gradient	27°
	side slope	20°
	vertical obstacle	0.45 m
	trench crossing	2.1 m

SPECIFIC PARAMETERS

crane lift capacity	12.0 t
crane outreach	8,400 mm
outreach lifting capacity	5.2 t
rear fork lifting capacity	14.0 t
main winch constant pull	25 t
main winch rope length	100 m
secondary winch constant pull	0.6 t
secondary winch rope length	220 m
trailer hook	automatic, incl. electric and breaking system coupling

RECOVERY POWER

Fast crane, rear forklift, 2 winches, trailer hook.

CREW PROTECTION

Level II armoured cabin for crew safety.

MULTI-TASK VEHICLE

Mammoth can be used to handle heavy cargo in the rear and for post-disaster relief service.

EARTH MOVING

Optional dozer blade.

AV-15 / RECOVERY VEHICLE

LONG SERVICE

aExtensively used
and action proved system.

UNDEMANDING
OPERABILITY

Minimal crew requirements.

EFFICIENT LOAD
CONTROL

360° crane operational range.

LIFE-CYCLE ADVANTAGES

Economical procurement,
operation and maintenance.

A GREAT TOOL FOR RESCUE, EVACUATION
AND REAR OPERATIONS

65 TONS



1+1

CREW

80 KM/H





TATRA



Designed to help in both military and civil rescue and recovery purposes, the AV-15 is a highly mobile system for a range of operations, including recovery and towing of wrecked or damaged vehicles, clearing and handling collapsed buildings and structures as well as moving various objects and cargo.

AV-15 is easy to use and it provides great support in post-conflict and post-distater relief and reconstruction and is also used by firefighting squads for various manipulation related tasks.

AVAILABLE EQUIPMENT

CRANE

MAIN WINCH
+ 2 PULLEYS

AUXILIARY
WINCH

WELDING
SET



PARAMETERS

weight		30.4 t
dimensions	L	12,300 mm
	W	2,570 mm
	H	3,360 mm
engine	type	Tatra T3-930-50
	output	265 kW
mobility	top speed - on road	80 km/h
	top speed - off road	25 km/h
	cruising range	1,000 km
	fording depth (instant)	1.3 m
	gradient	30 °
	side slope	20 °
	vertical obstacle	0.36 m
	trench crossing	1.6 m

WELL PROVEN AND RELIABLE VEHICLE

The AV-15 is a well-proven reliable design featuring optional modernized elements and great economy of use.

SPECIFIC PARAMETERS

crane lift capacity	15.0 t
crane outreach	7.7 / 11.4 m
outreach lifting capacity	4.0 t
main winch constant pull	14.7 / 29.4 / 44.1 t
main winch rope length	150 m
secondary winch constant pull	0.6 t
secondary winch rope length	320 m

FOR ROUGH TERRAIN

Tracked vehicle can recover vehicles in the most demanding terrain conditions.

STRONG WINCH

Strong winch - up to 75 tons of towing power.

ECONOMIC SERVICE

T-55 chassis is common and its operation and servicing is economic.

UNIVERSAL USE

Suitable for both tactical and civilian environment.

EXTRA PROTECTION

Crew is protected against NBC threats.

VT-55A / RECOVERY VEHICLE

SAFE OPERATION IN DEMANDING CONDITIONS

75 TONS

3 CREW

50 KM/H

EA

The VT-55 has been designed and produced for recovery and towing of immobile tanks, derailed train cars and crashed vehicles in especially difficult terrain.

It is equipped with a dozer blade, a strong winch, a crane and welding tools. It operates on a T-55 light tank chassis and therefore has excellent manoeuvring capabilities. The tank hull protects the crew against falling objects allowing the VT-55 to safely operate also in the proximity of unstable structures, walls or debris or, naturally, in combat operations.

AVAILABLE EQUIPMENT

CRANE

MAIN WINCH + 2 PULLEYS

AUXILIARY WINCH

WELDING SET



SPECIFIC PARAMETERS

crane lift capacity	1.6-2.0t
main winch constant pull	25 / 50 / 75t
main winch rope length	200m
welding equipment	140-230 A

PARAMETERS		
weight		35.0 t
dimensions	L	7,150 mm
	W	3,280 mm
	H	2,250 mm
engine	type	V 55A
	output	427 kW
mobility	top speed - on road	50 km/h
	top speed - off road	25 km/h
	cruising range	400 km
	fording depth (instant)	1.4 m
	gradient	32°/17° (while towing a medium MBT)
	side slope	30°
	vertical obstacle	0.8 m
	trench crossing	2.7 m



COMBAT RECOVERY OPERATIONS

The VT-55A is a necessary component of every tank and mechanized battalion.

GOOD MOBILITY

Light 4x4 configuration of the Tatra chassis for easy access to both urban and natural terrain areas.

EFFECTIVITY

High capacity of water and chemical substance mixing chambers, high pressure unit, floating pump for fast tactical operation.

OPERATOR PLATFORM

With extensive reach and high load capacity.

FAST DEPLOYMENT

Vehicle can be transported on road or by rail, ship and aircraft.

PLATFORM VARIABILITY

Superstructure can be tailor made for customer and equipped with a range of accessories.

TMVA DECON-17 EX

/ DECONTAMINATION VEHICLE

★

NEW

PRODUCT

1+2

CREW

115

KM/H

TATRA

EA

The **TMVA DECON-17 EX** decontamination vehicle is assigned to perform the entire decontamination of outside and inside surfaces of military vehicles, armament and material, incl. oversized equipment, decontamination of terrain, aircrafts, buildings and various objects and creating a high-pressure water curtain to stop a ground cloud of dangerous chemical substances.

This vehicle is able to operate individually and also by the way of establishing decontamination workplaces for team-linked decontamination. This vehicle is able of traverse over unpaved roads and through challenging terrain in all seasons and weather conditions. It is tailored to transport by rail, by ship or by air.



4X4 TACTICAL
DECONTAMINATION PACKAGE

The highly mobile TATRA T 815-7 4x4 chassis with a decontamination superstructure featuring a powerful SANIJET aggregate.

PARAMETERS

weight		19.0t
dimensions	L	7,560 mm
	W	2,550 mm
	H	2,980 mm
engine	type	Tatra T3C-928.81, V8
	output	270 kW
mobility	top speed - on road	115 km/h
	top speed - off road	30 km/h
	cruising range	900 km
	fording depth (instant)	1.5 m
	gradient	40°
	side slope	17°
	vertical obstacle	0.6 m
	trench crossing	0.9 m



SPECIFIC PARAMETERS

overall tank capacity	2,200l
water chamber capacity	800l
mixing chambers capacity	2×700l
operating speed minimum	35 m/min.
platform height reach	12 m
platform side reach	7 m
platfrom load capacity	180 kg
pressure unit operation modes	cold at high pressure
	warm at low pressure
	hot at high pressure
	wet and dry steam
	auxilliary electrical source



UNIQUE CONCEPT

Unique Tatra chassis with independent semi-axes and triangle frame protects superstructure from torsion damage and improves crew comfort.

VARIABILITY

Variable configuration from 4x4 to 16x16 wheel drive.

RELIABLE CONSTRUCTION

Heavy duty construction with excellent level of parts protection.

TAILORED FOR THE CUSTOMER

A range of cabins and equipment available for crew safety and comfort.

UNIVERSAL USAGE

KARBOX container platform carrier for fast mobile hospital, workshop, command and other special use for quickly deployed.

T 815-7 PLATFORM

TATRA CHASSIS UTILIZED FOR VARIOUS PURPOSES



The **TATRA FORCE** chassis – being probably the best solution for wheeled terrain mobility available today – can be utilized for virtually any purpose related to providing tactical support, efficient cargo and personnel transport, post-conflict or disaster relief, firefighting and rescue tasks as well as helping set up special applications using tailor made superstructures, including weapon systems and containers.

GREAT TRADITION OF INDUSTRIAL PRODUCTION – SINCE 1850!



TATRA

The **Kopřivnice** automotive maker, known under the **TATRA brand**, ranks among the oldest car and truck factories in the world. More than 116-year of Tatra's continuous activity has significantly influenced the automotive industry in the Czech Republic and abroad.

KARBOX

Karbox company is a leading Czech manufacturer of containers, container and box bodies for high mobility special services.



CSG

CSG comprises many companies that work together in order to bring a complex service to government and private sector. **EXCALIBUR ARMY** combines the tradition and production capabilities of its own with that of a number of partner CSG companies. Together we can offer you every advantage available – from metallurgy processing to final software implementation.

The whole **CSG** brand is built on the performance driven Czech and Slovak industry, that has always focused on quality, reliability and effectivity.



GUNS AND AMMUNITION



EXCALIBUR ARMY provides a range of weapons and ammunition for vehicle, craft, portable and handheld use.

Weapons we offer are main tank guns, machine guns, mortars, grenade launchers, rifles and hand guns. Our priority is to supply high quality and reliable arms.

Our ammunition supply features a wide range of cartridges from 5.56 to 155 mm calibre, grenades and mortar mines.

M-46 130 mm

TOWED FIELD GUN

PROVEN, EFFECTIVE ARTILLERY SYSTEM

930_{M/S}

MUZZLE VELOCITY

27,150_M

130_{MM}

CALIBER

The **M-46 M1954 130 mm** is towed artillery field gun that was developped from a **M-36** naval gun and has been produced in Russia since 1950s.

The 52 calibre barrel is mounted on a split-trail carriage that provides stability when firing. Shield provides cover against muzzle blast and machine gun and small arms fire. The gun is manually loaded with separate loading charge and projectiles.

The **M-46** is still an integral part of artillery in many countries accross Middle East, Africa and Asia.



PARAMETERS

weight		7,700kg
dimensions	L	11,730 mm
	W	2,450 mm
	H	2,550 mm
mobility	top speed - on road	50 km/h
ammunition		130 mm HE - high explosive
		130 mm ILL - illuminating
		130 mm SMK - smoke

SPECIFIC PARAMETERS

gun calibre	130 mm
firing range	27,150 m (38,000 m assisted)
elevation	-2.5°/45°
rate of fire – maximum	8/min
rate of fire – sustained	5/min

2A46M 125 mm

MODERNIZED VERSION OF 2A46/D-81T MAIN GUN

900-1,785_{M/S}

MUZZLE VELOCITY

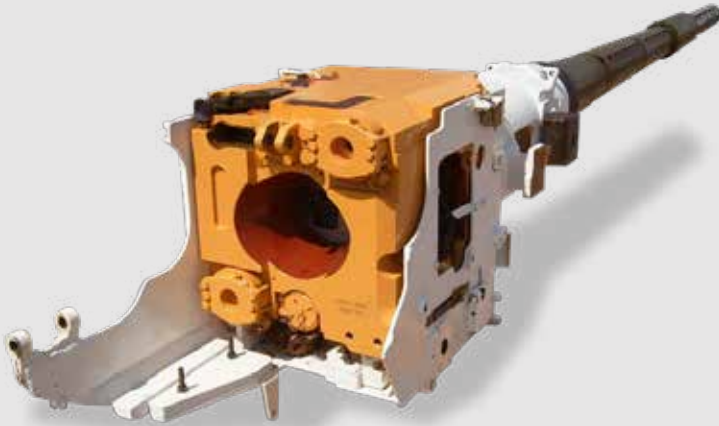
5,000_M

125_{MM}

CALIBER

The **125 mm main gun** is an integral part of all Soviet and Russian tanks starting with **T-72** model. It was designed for destruction of enemy armoured combat vehicles, equipment and structures

The modernized version of the gun features longer barrel and 10% lower overall weight.



SPECIFIC PARAMETERS

gun calibre	125 mm
firing range	5,000 m
effective range – armoured targets	1,000-3,100 m
effective range – ground targets	5,000 m
rate of fire – standard	8 rpm
rate of fire – manual loading	2 rpm
muzzle velocity	900-1,785 m/s

PARAMETERS

weight		2,400 kg
dimensions	L	6,381 mm
ammunition		HE
		HEAT
		APFSDS

VARIABLE AMMUNITION

HE, HEAT, APFSDS

LONG RANGE

Effective range up to 5 km.

EFFECTIVE AND WELL
PROVEN ARTILLERY GUN

LONG FIRING RANGE

GOOD MOBILITY
AND FAST DEPLOYMENT

DIRECT FIRE
AND NIGHT SIGHT OPTION
AVAILABILITY



2A28 73 mm /GROM

BMP-1 MAIN ARMAMENT, A 73 MM SMOOTHBORE SEMI-AUTOMATIC GUN

665_{M/S}

5,000_M

73_{MM}

MUZZLE VELOCITY

CALIBER

Compact and effective weapon, the 2A28 73 mm cannon provides a main combat means for BMP vehicles since 1970s.

Designed to fight against armoured vehicles, structures and to eliminate firing posts is open terrain and urban areas.

RELIABILITY

Decades long history of use have proven the weapon to be exceptionally reliable and effective.

LONG RANGE

Up to over 4 km of effective firing range with high explosive fragmentation round type.

PARAMETERS		
weight		115 kg
dimensions	L	2,180 mm
ammunition		PG-15V HEAT
		OG-15V HE

SPECIFIC PARAMETERS

gun calibre	73 mm
firing range	5,000 m
effective range – PG-15V	1,300 m
effective range – OG-15V	4,400 m
rate of fire – standard	5-6 rpm

ANTOS 60 mm

LIGHT AND EFFECTIVE ARTILLERY SUPPORT FOR GROUND TROOPS AND SPECIAL UNITS

UP TO 20_{RPM}

3,000_M

60_{MM}

RATE OF FIRE

CALIBER

Both available ANTOS 60 mm models are designed for immediate ground units fire power enhancement and special ops missions. Light, portable, with variable charges – ANTOS-LR model allows a single trooper to cover a distance from 120 up to almost 3100 m with a range of NATO standard 60 mm incendiary or fragmentation explosive, smoke or IR illumination bombs. An ultra-light commando version is available for unprecedented and secured mobility and close combat.



PARAMETERS		ANTOS-LR	ANTOS
weight		15.9 kg	5.3 kg
	with accessories	43 kg	19 kg
dimensions	barrel length	1,000 mm	650 mm
mobility		portable	portable, trigger firing mode available
ammunition		60 mm HEI - high explosive incendiary	60 mm HEI - high explosive incendiary
		60 mm HEF - high explosive fragmentation	60 mm HEF - high explosive fragmentation
		60 mm ILL - illuminating	60 mm ILL - illuminating
		60 mm ILL-IR - illuminating infrared	60 mm ILL-IR - illuminating infrared
		60 mm SMK - smoke effect	60 mm SMK - smoke effect
		60 mm JUMP - dummy training bomb	60 mm JUMP - dummy training bomb

SPECIFIC PARAMETERS	ANTOS-LR	ANTOS
gun calibre	60.7 mm	60.7 mm
firing range – minimum	102 m	80 m
firing range – maximum	3,098 m	1,200 m
elevation	40-85°	40-85°
traverse	360°/6° with bipod fixed	360°
rate of fire – maximum	20 rpm	16 rpm



ZU 14.5 mm

HEAVY ANTI-AIRCRAFT MACHINE GUN

8,000_M
↑

14.5_{MM}
CALIBER ⇄

ZU 14.5 mm is an anti aircraft gun available in variable configuration - double or quadruple KPV barrel versions.

Being very light and mounted on a sturdy two wheel carriage it allows virtually any vehicle to tow it to desired position. Its effective firing range limits its use in the modern battlefield, but it is still very effective against aircraft operating in low altitude, including UAVs.



2/4 BARREL
CONFIGURATION

SPECIFIC PARAMETERS	ZU-2	ZU-4
gun calibre	2×14,5mm KPV MG	4×14,5mm KPV MG
firing range – maximum	8,000m	8,000m
firing range – maximum altitude	5,000m	5,000m
firing range – effective altitude	1,400m	1,400m
elevation	-15°/88°	-15°/88°
traverse	360°	360°
rate of fire – maximum	600rpm	600rpm

LIGHT AND COMPACT
FOR VERY FAST
DEPLOYMENT

EXCELLENT
MANEUVERABILITY -
360°TRAVERSE AND WIDE
ELAVATION RANGE

GOOD SPARE PARTS
AVAILABILITY

AVAILABLE FOR BMP-2,
BMP-3 AND OTHER IFVS
AS WELL AS MI-28,
KA-50, KA-52
AND KA-29TB
HELICOPTERS

RELIABILITY

DOUBLE BELT FEEDING

MANUAL OR PYRO
RELOADING (3 CHARGES)

CZ30 30 mm

AUTOMATIC CANNON FOR LIGHTLY ARMoured TARGETS
AND EQUIPMENT

960_{M/S}
MUZZLE VELOCITY

5,000_M
↑

30_{MM}
CALIBER ⇄

30 mm automatic cannon is suitable for infantry fighting vehicles and armoured personnel carriers such as BMP, but it can be fitted on helicopters. It is designed to engage lightly armoured targets, PTRS sets, enemy infantry or aircraft operating in low altitudes.

CZ30 is equipped with recoil damping system and is favoured for its reliability and long life cycle.



30×165 MM

PARAMETERS		
weight		116.5kg
dimensions	L	3,027mm
		AP-T
		HE
		HEI
		HE-T
		HETP-T

SPECIFIC PARAMETERS	
gun calibre	30mm
firing range	10,300m
effective range – armoured targets	1,500m
effective range – aircraft targets	2,500m
effective range – ground targets	4,000m
rate of fire – standard	550rpm
rate of fire – low	200-300rpm
muzzle velocity	960m/s

MACHINE GUNS



PKM



PKMSN



DShK



PKT



KPVT



PKB



PARAMETERS	PKM/PKT/PKB	NSV	DShK	KPVT
calibre	7.62mm	12.7 mm	12.7 mm	14.5 mm
gun length	1,100 mm	1,560 mm	1,625 mm	1,980 mm
rate of fire - maximum	700-800 rpm	700-800 rpm	600 rpm	600 rpm
muzzle velocity	830 m/s	845 m/s	850 m/s	1,005 m/s
maximum range	3,800 m	6,000 m	6,500 m	7,000 m
effective range against ground targets	1,000 m	2,000 m	2,000 m	3,000 m
weight of the gun	7.5 / 10.5 / 9 kg	25 kg	34 kg	49 kg 39 kg on infantry tripod

RIFLES

We offer **AKM/AKMS rifles**, a modernized version of the renowned **AK-47** system.

Our adjustments have prepared the rifles to be used under the most unfavourable conditions, increasing the guns durability and reliability. Integration of Picatinny rails (MIL-STD-1913 compatible) enables mounting of a wide variety of optoelectronic sights and accessories.



AKM

OPTIONAL ACCESSORIES

- RED DOT SIGHT
- LASER SIGHT
- TACTICAL LIGHT
- D-BALL ILLUMINATOR
- NIGHT VISION SCOPE
- SILENCER
- FRONT GRIP
- MUZZLE BREAK



AKM

polymer grips



AKMS

KeyMod rail



AKMS

wooden grips



AKMS

polymer grips



AKM/AKMS CUSTOMIZABLE CONFIGURATION

We deliver the AKM/AKMS rifles with a selection of modifications and accessories to meet special customer requirements.

AMMUNITION

SMALL, MEDIUM AND LARGE CALIBRE AMMUNITION

EXCALIBUR ARMY delivers a range of original munition for small hand guns, rifles, machine guns, mortars as well as for large arms such as tank guns or artillery systems.

We offer a variety ammo types – standard, armour piercing, high explosive, incendiary, smoke, illuminating and dummy mines or blank cartridges for practice and weapon testing.



SMALL CALIBRE AMMUNITION	TYPE	DESIGNATION	WEAPONS
5.56 × 45 NATO	cartridge	standard	assault rifles (M4, M16, AK-101 etc.)
7.62 × 39	cartridge	standard, AP-T, AP, practice	assault rifles (AK-47, SA-58 etc.)
7.62 × 54R	cartridge	standard	machine guns (PKM, PKT, UK-59)
MEDIUM CALIBRE AMMUNITION	TYPE	DESIGNATION	WEAPONS
12.7 x 108 mm	cartridge	API	DŠK, NSV
14.5 x 114 mm	cartridge	API, HEI	KPVT
23 x 115mm	cartridge	API-T, HE-I-T	GŠ-23
23 x 152 mm	cartridge	API-T, HE-I-T	ZU-23, ZSU-23
30 mm x 165 mm	cartridge	HE-I, AP-T	2A42 (BMP-2)
30 mm x 211mm	cartridge	HEI	PLDVK53, PLDVK 53/59
30mm VOG-17	grenade	HE	AGS
PG-7	cartridge	HEAT	BMP-1
MEDIUM CALIBRE AMMUNITION - PG	TYPE	DESIGNATION	WEAPONS
73mm PG-15 V	grenade	HEAT	2A28 (BMP-1)
73mm OG-15 V	grenade	HE	2A28 (BMP-1)
RPG-75 M	grenade	HE	self
RPG-76(KOMAR)	grenade	HE	self
9M113 Maljutka	ATGM	HE	RPG-7
MORTAR MINES	TYPE	DESIGNATION	WEAPONS
82mm	mortar mine	HE	mortars
120mm	mortar mine	HE	mortars

LARGE CALIBRE AMMUNITION	TYPE	DESIGNATION	WEAPONS
100 mm	cartridge	HE, HEAT, APFSDS	T-54/55, 100 mm cannon
100 mm MT-12	cartridge	HE, HEAT, APFSDS	MT-12 cannon
122 mm	cartridge	HE, HEAT	D30, ShH 2S1 Gvozdika
122 mm	cartridge	HE	vz. 38/68, vz. 30/78
125 mm	cartridge	HE, HEAT, APFSDS, practice	T-72, T-80
152 mm	cartridge	HE, HEAT	D-20, ShKH vz. 77 DANA, 2S3 AKACIA
155 mm	cartridge	HEAT, practice	ShKH vz. 2000
LARGE CALIBRE AMMUNITION - ROCKETS	TYPE	DESIGNATION	WEAPONS
122 mm	cartridge	HE-F	RM-70, BM-21

HIGH QUALITY

We produce high quality and accurate ammunition to provide precision, reliability and weapon performance.





EXCALIBUR
ARMY

ENGINES
AND
SPARE PARTS



ENGINES



BFP

Modified for efficient cold weather start.

UTD-20 S1

DESCRIPTION
6-CYLINDER
V 120 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED

EXCALIBUR ARMY sells various engines and performs overhaul and revisions of all mentioned types of engines according to customer needs, including subgroups such as injection pumps, oil and water pumps, fuel and oil filters, turbo compressors, blowers, dynamos, alternators and starters. We also modify selected engines to improve output, fuel consumption and reduce exhaust gas production.

Thanks to our production capacities and large stocks, we also offer a great number of engine spare parts, especially for T-72 and T-55 tanks, BMPs, and also PANDUR APC/IFV, RM-70 MLRS, DANA SPG, OT-64, BRDM-2, AM-50, TATRA T 813, T 815, T 810 and others.

Output		220 kW
Used in		BMP-1, BMP-2 and their variants
Max. fuel consumption		238 g/kWh at 2,600 rpm
Max. oil consumption		8.2 g/kWh at 2,200 rpm
Max. torque (Nm)		1,030 Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		665 kg
Engine dimensions	L	834 mm
	W	1,150 mm
	H	757 mm

Output		338 kW
Used in		BMP-3
Max. fuel consumption		251 g/kWh at 2,600 rpm
Max. oil consumption		6.8 g/kWh at 2,200 rpm
Max. torque (Nm)		1,461 Nm
The oil pressure in the main pipe		0.8-1.2 MPa
Fuel		Diesel
Weight of the engine		850 kg
Engine dimensions	L	997 mm
	W	1,228 mm
	H	598 mm



V-6M

DESCRIPTION
6-CYLINDER
DIRECT INJECTION
4 STROKE
WATER COOLED

Output		206 kW
Used in		GM
Max. fuel consumption		249 g/kWh at 2,000 rpm
Max. oil consumption		8 g/kWh at 1,800 rpm
Max. torque (Nm)		1,176 Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		825 kg
Engine dimensions	L	1,402 mm
	W	873 mm
	H	997 mm



UTD-29

DESCRIPTION
10-CYLINDER
V 150 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED

Output		573.7kW
Used in		T-72
Max. fuel consumption		245g/kWh at 2,000rpm
Max. oil consumption		9.52 g/kWh at 1,800rpm
Max. torque (Nm)		3,098 Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		980 kg
Engine dimensions	L	1,480 mm
	W	896 mm
	H	902 mm



V-55A

DESCRIPTION
12-CYLINDER
V 60 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED

Output		426kW
Used in		T-55
Max. fuel consumption		247.5g/kWh at 2,000rpm
Max. oil consumption		8 g/kWh at 1,800rpm
Max. torque (Nm)		2,226 Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		910 kg
Engine dimensions	L	1,580 mm
	W	905 mm
	H	920 mm

Output		456kW
Used in		T-55 AM2
Max. fuel consumption		247.5k/kWh at 2,000rpm
Max. oil consumption		8 g/kWh at 1,800rpm
Max. torque (Nm)		2,404 Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		910 kg
Engine dimensions	L	1,580 mm
	W	905 mm
	H	920 mm



V-84

DESCRIPTION
12-CYLINDER
V 60 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED

Output		624kW
Used in		T-72 B (M)
Max. fuel consumption		259.9g/kWh at 2,000rpm
Max. oil consumption		8g/kWh at 1,800rpm
Max. torque (Nm)		3,483Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		980 kg
Engine dimensions	L	1,480 mm
	W	896 mm
	H	902 mm



V-55 AM2

DESCRIPTION
12-CYLINDER
V 60 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED



V-46.6

DESCRIPTION
12-CYLINDER
V 60 DEGREES
DIRECT INJECTION
4 STROKE
WATER COOLED

Output		191kW
Used in		ZSU-23-4 SHILKA
Max. fuel consumption		245g/kWh at 1,800rpm
Max. oil consumption		8 g/kWh at 1,800rpm
Max. torque (Nm)		1,060Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		825kg
Engine dimensions	L	1,402mm
	W	873mm
	H	997mm



V-6-P1

DESCRIPTION
6-CYLINDER
DIRECT INJECTION
4 STROKE
WATER COOLED



Output		783kW
Used in		kit available for MBT upgrades
Max. fuel consumption		228g/kWh at 2,000rpm
Max. oil consumption		6 g/kWh at 1,800rpm
Max. torque (Nm)		4,600Nm
The oil pressure in the main pipe		0.7-1MPa
Fuel		Diesel
Weight of the engine		1,060 kg
Engine dimensions	L	1,615 mm
	W	1,010 mm
	H	949 mm

TE 2T 1050

DESCRIPTION
12-CYLINDER
V 60 DEGREES
DIRECT FUEL INJECTION
4 STROKE
WATER COOLED

SPARE PARTS

We supply a complete range of electrical, mechanical and structural spare parts for our products. Due to our large stock and production capacities we can also provide fast delivery of many parts for T-55, T-72 and BMP vehicles and secure genuine production of the less available spare parts.

We take great care to provide high quality parts only. We offer also spare parts for the PANDUR APC/IFV, RM-70 MLRS, DANA SPG, OT-64, BRDM-2, AM-50, TATRA T 813, T 815, T 810 and other vehicles, weapons or engines. All assembly components, such as hydraulic pumps or engines, are subject to extensive testing before delivery.





PROTECT
YOUR FUTURE

EA® **EXCALIBUR
ARMY**

COMPANY HISTORY

EXCALIBUR ARMY has been established in 1995 as a trade company dealing with surplus military vehicles and equipment retired from the Army of the Czech Republic as well as military forces of other Central European countries. **EXCALIBUR ARMY** has since been focusing on performing repairs, overhauls and modernizations including significant upgrades of former Warsaw Pact countries' military vehicles designed to make them compatible with current **NATO** standards. Recently a new special development programs have been launched to answer the demand for APCs, engineering vehicles, reconnaissance craft and enhancement of existing weapon systems. The company is now employing more than 500 people in several business, production and warehouse facilities in the Czech Republic. The most important is the plant in Šternberk where a tradition of over sixty years of repairs of special technology is continued.

SERVICES

The main production program is the ensuring of the life cycle of ground military and special technology – their production, modernization and repairs including overhauling. The defectation, warranty and post warranty service, preservation and storage of the technology, related logistics and technology transfers are all parts of our service portfolio. We also provide full operator staff training for use, maintenance and repairs.

www.excaliburarmy.cz



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