



MILITARY VEHICLES

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MAIN BATTLE TANKS



The main battle tanks delivered by **REAL TRADE PRAHA** 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 **REAL TRADE PRAHA** 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

|

60

KM/H

|

5,000

M

|

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		43t
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 standartization 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

60

km/h

5,000

M

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 grenade launchers 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.

CUSTOMIZABLE EQUIPMENT

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.



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

V-46

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



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 | 50 KM/H | 4,000 M

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.

Good 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



REAL TRADE PRAHA 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.



BALLISTIC PROTECTION

Cabin according to STANAG 4569 Level I.



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

90 KM/H
Speed

25.5 KM
Range

EA
EXCALIBUR ARMY

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.

The DANA M2 howitzer is equipped with a powerful Onboard Control System which contains subsystems of diagnostics, navigation, automatic gun aiming, autonomous calculation of shooting elements and ammunition selection subsystem.

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.



PARAMETERS

weight		30.2t
dimensions	L	11,456mm
	W	3,000mm
	H	3,350mm
engine	type	Tatra T3 -930-52M, V12
	output	265kW
mobility	top speed - on road	90km/h
	top speed - off road	25km/h
	cruising range	600 km
	fording depth (instant)	1.4 m
	gradient	30°
	side slope	15°
	vertical obstacle	0.6m
	trench crossing	2.0m



DANA M2 SYSTEM

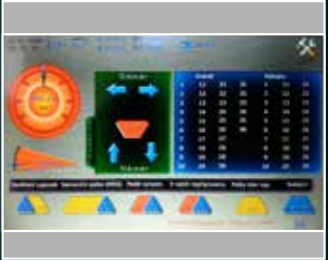
SPECIFIC PARAMETERS

armament	main	152.4mm howitzer
	firing range	20,000m (25,500 m with DN1CZ ammunition)
	elevation	-4° / 70°
	traverse	±225°
		± 45° a full range elevation
		± 220° with elevation to 10° (except DN1CZ)
	rate of fire – 1 st minute	5/min.
	rate of fire – sustained	4/min.
	carried ammunition	40
	secondary weapon	12.7 mm NSVT anti-aircraft machine gun

CONTROL PANEL



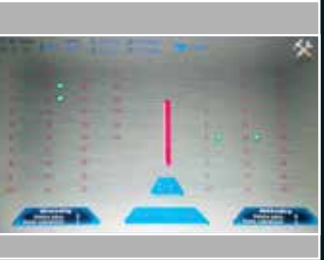
Basic screen



Semi-automatic aiming using arrows



Semi-automatic aiming using dial



Optional ammunition selection subsystem



NEW CONTROLS

Vehicle is equipped with new ergonomically distributed driver's and commander's controls (vehicle controls, C2I systems, FCS, FVS, CTIS etc.).



AUTOMATIC GUN AIMING

DANA M2 howitzer is equipped with a special A.S.A.P. system (Automatic Setting of Action Position) and with an ammunition control system which greatly enhance the speed of task execution and overall effectivity of the weapon.



APHU

Auxiliary 24 V source with a hydraulic pump allows emergency control of gun, battery charging and electrical system powering in case of accidental engine stopping.



IMPROVED UNDERCARRIAGE

Improved engine, new clutch, semi-automatic TATRA NORGREN transmission, new steering with servo, diagnostics and other improvements. Activation and retraction of support pads is 65% faster.

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

80

KM/H

20

KM

TATRA

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

MULTIPLE LAUNCH ROCKET SYSTEMS



REAL TRADE PRAHA delivers 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** are equipped with a new aiming system and optionally with Fire Control System with navigation system and ballistic computer that allows fire elements calculation. According to the calculation aiming system automatically aims and deregulates the launch tubes towards the target. 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.

MULTIPLE LAUNCH ROCKET SYSTEMS

FIRE CONTROL SYSTEM AND AIMING SYSTEM FOR ALL EA MLRS

FIRE CONTROL SYSTEM (FCS)

The Fire Control System consists of commander ballistic computer, communication subsystem and navigation system.

We offer two possibilities of the FCS with two different solution of the navigation system:

- 1. LANSYR-LIR Fire Control System with I-GEO navigation system**
 - Independent of external surroundings with no interference chances.
 - Coordinates are continually recalculated according to the movement of the rocket launcher in terrain.
 - Accurate values of the superstructure elevation and direction towards true north.
- 2. LANSYR-MQR Fire Control System with Q-GEO navigation system**
 - The dual GPS sensors are linked to the top of the rocket tubes bundle, which secures that the system obtains accurate values of the superstructure direction towards true north.
 - Coordinates of the actual position are continually recalculated in the real time.

FCS provides following main features:

- Calculation of shooting elements with automatic correction in the commander's tablet.
- Automatic topographic orientation capability.
- Sending data and commands to other vehicles with RF20 radio in P2P mode.
- Possible operation with or without radio communication.
- Creating geodetic objects: posts, targets, areas on the map.
- Slope calculation in course of vehicle according to the elevation data.
- Automatic command system.
- Firing from prepared or unprepared firing positions with topographic preparation.
- Easy preparation of various number of alternative firing posts.
- Displaying positional information on the digital maps.

MODES OF THE AIMING SYSTEM

- Fully automatic using a ballistic computer with FCS
- Semi-automatic using control panel
- Manual using a joystick and artillery sight RM-70
- Emergency using a handwheel and artillery sight RM-70

AIMING SYSTEM

- The aiming system allows reliably, quick and accurate aiming into calculated fire direction with all necessary superstructure and chassis subsystems and parts.
- The aiming system is controlled directly through the ballistic computer with automatic deregulation of the aiming or through the control panel and joystick.
- Aiming system consists of new electronic control boxes and panels.
- Non-NATO (360 = 60.00) and NATO (360 = 64.00) aiming circles are available.
- Sensor accuracy is 0.35 mils for elevation and traverse.
- Inclinometer tilt angle is $\pm 5^\circ$ with accuracy 0.2°.

MILITARY RADIO

JOYSTICK

FIRING DEVICE

CONTROL PANEL

BALLISTIC COMPUTER

COMMANDER WORKPLACE



FCS MAIN COMPONENTS



Commanders ballistic computer



I-GEO navigation system



Q-GEO navigation system



Military radio

AIMING SYSTEM COMPONENTS



Control panel of the aiming



Firing device



Loading unit control panel



Joystick



Portable device

NAVIGATION SYSTEM

We offer two different solution of the navigation system:

I-GEO navigation system based on Inertial Navigation System and GPS.

- Designed for heavy artillery solutions.
- No maintenance.
- Sensors: 3 gyro, 3 accelerometer.
- Bearing and elevation accuracy < 2 mils.
- Cold start:
 - 4 min for initial alignment,
 - 10 min for fine alignment.

Q-GEO navigation system based on dual GPS sensors with Q-GEO navigation unit.

- Based on dual GPS sensors with Q-GEO navigation unit.
- Electronic assembly with high accuracy, repeatability, and low power consumption.
- No maintenance.
- Bearing accuracy better than 2 mils.



DIGITAL INTERFACE
OF THE ELECTRIC
SYSTEM

Digital interface of the main weapon systems enables implementation of the Fire Control System with new aiming system according to calculated shooting elements with the possibility of manual control, voice and data communication with the upper levels of command and the new navigation system.



NEW TATRA CHASSIS

Overall design of whole system increased by unique Tatra chassis T815-7 with its high cruising speed and high crosscountry capability, good maneuverability and excellent chassis properties.



RM-70 VAMPIRE 4D

MULTIPLE LAUNCH ROCKET SYSTEM DELIVERING
EXTENSIVE FIREPOWER FAST AND WITH HIGH PRECISION

1+3

UP TO 40 KM

TATRA

The **RM-70 VAMPIRE 4D** is a forty-tube, multi-launch, self-propelled rocket artillery system with a loading device, which is used to provide converging fire support for troops, firing unitary high-explosive fragmentation rocket projectiles (122-JROF-RM 70) at larger area targets.

The **RM-70 VAMPIRE 4D** is a hugely upgraded variant of the original Czechoslovak **RM-70 GRAD MLRS** with a loading device.

The rocket launcher can fire both single rounds and volleys from the cab or using a portable device from a nearby trench. The basic type of the fire is indirect fire. If a combat operation requires direct fire with elevation from 0° to 10°, it can only be done within the range determined by elevation and traverse sensors.

The original **T-813 chassis** was replaced with the new **T815-7 chassis** with air axle suspension. Two-door variant is also available.



NEW CONTROL BOXES

fitted with the latest electronic components



AREA OF EFFECT

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



LOADING UNIT

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

PARAMETERS

combat weight		25.7t
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 / off road	85 km/h / 30 km/h
	cruising range	700 km
	fording depth (instant)	1.2 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 20 381 m (GRAD original at 50°) 40 000 m (G-2000 at 52,9°) - optional

Conversion time is measured in fully automatic mode of aiming supported by Fire Control System and navigation system.

fully combat readiness in combat posit.	< 60 s
from combat to travelling position	1,5 min
time of firing a salvo	18 s – 22 s
time of reloading 40 rockets	from 30 up to 36 s
time to prepare 2nd salvo	1,5 - 2,5 min



ARMoured CABIN

The cabin is armoured type, low profile, prolonged with two doors. The interior can be heated with the use of independent heating or cooled down by means of the dependent or independent air conditioning system.



NEW TATRA CHASSIS
T815-VPR 9M

Overall design of whole system increased by unique Tatra chassis T815-VPR 9M with its high cruising speed and high cross-country capability, good maneuverability and excellent chassis properties.



CREW COMFORT

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

RM-70 M1

UPGRADED VARIANT OF THE RM-70 GRAD MLRS



The **RM-70 M1** is a forty-tube, multi-launch, self-propelled rocket artillery system with a loading device, which is used to provide converging fire support for troops, firing unitary high-explosive fragmentation rocket projectiles (122-JROF-RM 70) at larger area targets.

The **RM-70 M1** is a hugely upgraded variant of the original Czechoslovak **RM-70 GRAD MLRS** with a loading device.

The rocket launcher can fire both single rounds and volleys from the cab or using a portable device from a nearby trench. The basic type of the fire is indirect fire. If a combat operation requires direct fire with elevation from 0° to 10°, it can only be done within the range determined by elevation and traverse sensors.

The original **T-813 chassis** was replaced with the new **T815-VPR 9M** chassis with air axle suspension.



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 VERSIONS



ARMoured CABIN



SOFT CABIN

NEW 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

combat 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	85 km/h
	top speed - off road	25 km/h
	cruising range	1,000 km
	fording depth	1.2 m
	gradient	27°
	side slope	18°
	vertical obstacle	0.5 m
	trench crossing	2.0 m

NIGHT VISION CAMERA



TATRA T 815 CHASSIS

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



SPECIFIC PARAMETERS

armament	main	122mm JROF rockets /40+40/ max. range 20.4/40.1km - optional
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BM-21 MT

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

1+2

UP TO 40 KM

TATRA

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 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		
combat weight		16.3t
dimensions	L	7,370 mm
	W	2,550 mm
	H	2,730 mm
chassis		T815-7T3R21 4x4.1R with low cab
engine	type	Tatra T3C-928.81, V8
	output	270 kW
mobility	top speed - on road	90 km/h
	top speed - off road	30 km/h
	cruising range	1,200 km
	fording depth	1.2 m
	gradient	45°
	side slope	20°
	vertical obstacle	0.6 m
	trench crossing	0.9 m

SPECIFIC PARAMETERS		
armament	main	122 mm JROF /40 rockets/ max. range 20.4/40.1km - optional

ZIP 1:1

The logistic kit of spare parts, tools and accessories is intended for superstructure operating, replacing defective parts, for repairing minor faults by the crew and for launcher maintenance.



FULFILLING NATO STANAG REQUIREMENTS

The life cycle of the equipment is at the same level as in the original BM-21. All electronic parts has resistance -20°C to +55°C and humidity 95%.



DIFFERENCES OLD BM-21 AND NEW BM-21 MU

Old system allowed firing only from prepared combat position. Procedure of preparing that position, reaching it, getting into fire direction and leaving combat position was quite time-consuming. Goal of a new system is fully automatic mode of aiming and firing, which reduce time needed for assuming combat position and increase fire effectivity and accuracy in the target area.



EASY SERVICE

Secures maintaining of the URAL platform and its logistic system.



BM-21 MU

UPGRADED VERSION OF THE URAL CHASSIS MLRS

1+2

UP TO 40 KM

URAL

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.

Modernization preserves tactical and technical features of BM-21 chassis. The principal mode of fire is indirect fire, direct fire can be performed only within the range determined by traverse and elevation sensors.



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.

NEW 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

combat weight		13.7t
dimensions	L	7,350 mm
	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	1.2m incl. fording wave
	gradient	40°
	side slope	18°
	vertical obstacle	0.5 m
	trench crossing	0.6 m



SPECIFIC PARAMETERS

armament	main	122mm JROF /40 rockets/ max. range 20.4/40.1km - optional
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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.



PROLONGED VERSION

PATRIOT II offers various upgrades over the original PATRIOT, one of them being the prolonged and wider cabin with higher capacity for crew or special equipment.



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.



SAFETY & ENDURANCE

Fire-extinguishing system for the cabin and engine, anti-mine seats, optional jammers coupled with a long range of 700 km.



PATRIOT II

MULTI-PURPOSE PLATFORM FEATURING SUPERIOR OFF-ROAD MOBILITY

★
NEW
PRODUCT

1+1+6
Crew configuration

110 KM/H
Speed

TATRA
Chassis

The PATRIOT II is an upgraded modular wheeled combat tactical vehicle that features excellent mobility in difficult terrain thanks to the unique TATRA chassis. It offers wide range of mission kits and armament choices - remote or manually controlled machine guns, or even a 20 mm cannon with superior firepower, grenade launchers or ATGMs.

The vehicle provides a unified platform for the „PATRIOT family“ of defence and civil safety applications, such as reconnaissance, special operations, communications, command and control, chemical, medevac, EOD, PSYOPS, riot control, and of course troops transport or direct combat. Any configuration is possible for the PATRIOT.

CREW COMFORT AND SAFETY

Ballistic and anti-mine protection, A/C, NBC filtration system.



TATRA CHASSIS - HIGH PAYLOAD & GREAT MOBILITY

Weapon station ARX 20 application by Nexter Systems

PARAMETERS

weight		13.5 - 17.5 t (per vehicles type of protection and equipment)
dimensions	L	6,250 mm
	W	2,550 mm
	H	2,800 mm
	wheelbase	3,650 mm
engine	type A	Cummins ISL / water-cooled
	type B	Tatra T3C-928-90 / air-cooled
	output A	270 kW
	output B	300 kW
mobility	top speed - on road	110 km/h
	top speed - off road	45 km/h
	cruising range	700 km
	fording depth (instant)	1.2 m
	gradient	45°
	side slope	33°
	vertical obstacle	0.5 m
	trench crossing	0.9 m

BALLISTIC PROTECTION

Level 2 - 4 STANAG 4569



ANTI-MINE PROTECTION

Level 2a/2b - 3a/3b STANAG 4569



SPECIFIC PARAMETERS

armament	main	up to 20 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



VERSATILE PLATFORM

Mission kit can be modified as per customer request.



PROTECTION

Crew comfort and safety
- ballistic and anti-mine protection, A/C, NBC filtration system.



SAFETY & ENDURANCE

Fire-extinguishing system for the cabin and engine, anti-mine seats, long range of 500 km.



SUITABLE FOR EVERY ENVIRONMENT

Optional engines - air/water cooled, mission kits and other customization as required.



PATRIOT

MULTI-PURPOSE PLATFORM FEATURING SUPERIOR OFF-ROAD MOBILITY

1+1+4

110 KM/H

TATRA

The armoured tactical vehicle featuring high maneuverability is intended for deployment with **Rapid Reaction Forces** to carry out reconnaissance and patrol duties, as well as direct combat, 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, medevac and other.

TATRA CHASSIS

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



ON-ROAD/OFF-ROAD MOBILITY

TATRA FORCE chassis combined with the relatively light superstructure and compact size render PATRIOT a perfect fit for rapid deployment. Very stable even in high speeds and off the well paved roads - on which PATRIOT wouldn't drag behind either.



SOFT-TOP (CABRIO VEHICLE VERSION)

Special operations varaint is available- an example of the PATRIOT's modularity.

PARAMETERS

weight		12.0 t
dimensions	L	6,100mm
	W	2,225mm
	H	2,700mm
engine	wheelbase	3,500 mm
	type A	Cummins ISBe / water-cooled
	type B	Tatra T3C-928 / air-cooled
	output A	210kW
mobility	output B	230 kW
	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	33°
	vertical obstacle	0.5 m
	trench crossing	0.9 m

BALLISTIC PROTECTION

3 - STANAG 4569



ANTI-MINE PROTECTION

2a/2b - STANAG 4569



SPECIFIC PARAMETERS

armament	main	14,5mm RCWS (Nexter)
	options available	7.62 mm / 12.7 mm / 14.5 mm manned gun turret
		mortar (pick-up vehicle version)
		AG/SG launchers



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 maneuverability (e.g. automatic transmission), firepower and protection enhancement.



PANDUR II

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

*

4+7

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 coaxial MG FN MAF (M240)
		76 mm SGL type Wegmann / 8 units/



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.



MEXCA

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

3+6

65

KM/H

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 asymmetric 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



BACK RAMP

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

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



THOROUGHLY MODERNIZED INTERIOR

New ballistic seats and more space for the whole crew and new controls for driver, commander and gun operator.

SPECIFIC PARAMETERS

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



MANEUVERABILITY

Excellent maneuverability 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

6-23MM

ARMOUR

65KM/H

7KM/H

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 without the launcher
	secondary	7.62 mm PKT coaxial machine gun



UTD-20

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



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.

OT-64

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 | 6-15MM ARMOUR | 95KM/H | 9KM/H

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

SPECIFIC PARAMETERS

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



MILITARY ENGINEERING VEHICLES



REAL TRADE PRAHA 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. We have developed the **DECON** vehicle to address the CBRN threats nations may face all around the world.



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, M-50 EX and M-50 B 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

MOBILE BRIDGE

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



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 wet 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 rescue operations or building industry and forestry.



VARIABLE CAB

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



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.

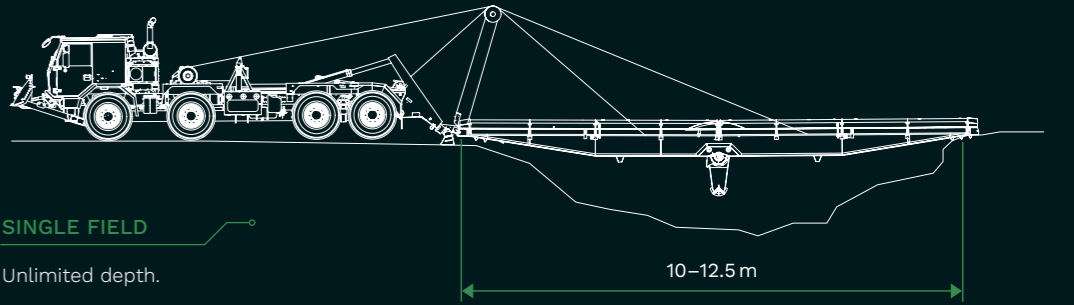
SPECIFIC PARAMETERS		
bridge field	load-carrying capacity	MLC 70
	length	13,500 mm
	width	4,300 mm
	travelling width	3,500 mm
detachable trestle	height retracted	2,000 mm
	fully extended	6,000 mm
vehicles per one set	4	



TATRA T3C-928.90

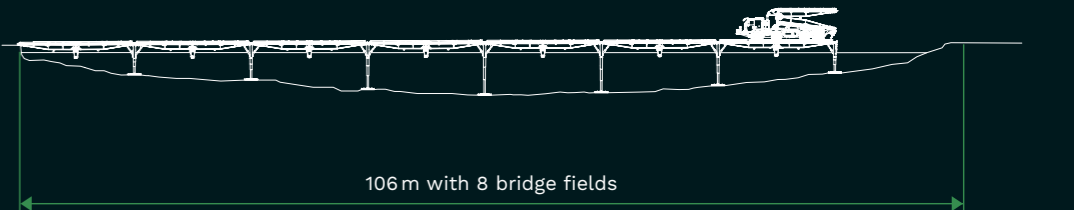
Powerful and reliable
eight-cylinder, four-stroke,
V-type, TATRA Diesel
engine.

PARAMETERS		
with standard cabin		33t
dimensions	length (with blade)	12,400 mm
	width	3,650 mm
	height	3,900 mm
engine	type - optional, i.e.	TATRA T3C-928.90
	output	300 kW at 1,800 rpm
mobility	top speed – on road	90 km/h
	top speed – off road	40 km/h
	cruising range (w/o jerry cans)	>500 km
	fording depth (with preparation)	1.5 m
	gradability	25°
	static side slope	20°
	vertical obstacle (with blade)	420 mm
	trench crossing	2 m



SINGLE FIELD

Unlimited depth.



2 AND MORE FIELDS

6 m depth maximum.

NEW PRODUCT



SWIFT DEPLOYMENT

A 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 related superstructure damage.



EARTH MOVING

Optional dozer blade for earth moving.



AM-50 EX MOBILE BRIDGE

UNIQUE SOLUTION FOR WIDE GAP CROSSING

3

85

KM/H

TATRA

13.5-106M

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 operate in 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°
detachable trestle	maximum crossfall	5°
	height retracted	2,000 mm
	fully extended	6,000 mm
vehicles per one set	4	

TATRA T 815-7 CHASSIS

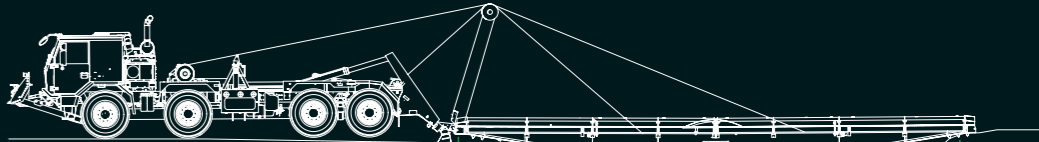
Modern, heavy-duty design. Ultimate terrain crossing and easy maintenance.

2 AND MORE FIELDS

6 m depth maximum.

PARAMETERS

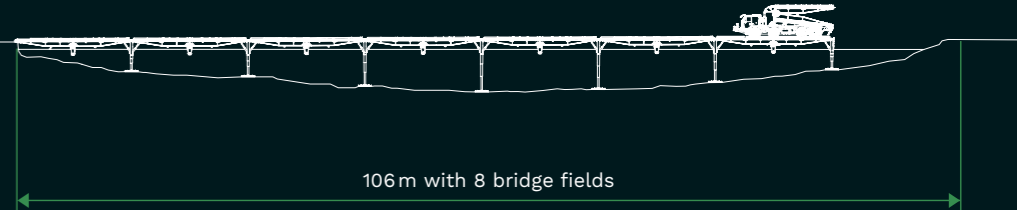
weight		26.1t
dimensions	L	11,250 mm
	W	3,415 mm
	H	3,830 mm
engine	type	Tatra T3C-928.90
	output	300 kW
mobility	top speed - on road	85 km/h
	top speed - off road	40 km/h
	cruising range	500 km
	fording depth (instant)	1.2 m
	gradient	25°
	side slope	20°
	vertical obstacle	0.5 m
	trench crossing	2.0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



SINGLE FIELD

Unlimited depth.

10-12.5 m



106 m with 8 bridge fields



WELL-PROVEN SOLUTION

Extensively used and well-proven system thanks to the direct link to the original AV-15.



ECONOMICS OF OPERATION

Minimum requirements for service, high serviceability and non-demanding maintenance.



HIGH CROSSABILITY IN HARD TERRAIN

Unmatched solution of the TATRA chassis of the 8x8 military series.



VARIABILITY

A possibility to adapt the vehicle to the engineering means used by a customer, a possibility to select equipment and additional accessories, an armour cabin or an automated gear-box.



TREVA-15

TACTICAL RECOVERY AND EVACUATION VEHICLE

2(+4)

80 KM/H

TATRA

TREVA-15 (Tactical Recovery and Evacuation Vehicle) is a new recovery vehicle based on the well-known and well-proven AV-15 recovery vehicle. The vehicle is based on the TATRA FORCE T 815-7 8x8 chassis with a prolonged 4-door cabin designed for the transportation of the evacuated vehicle crew. The superstructure derives from the well-proven recovery vehicle AV-15 and retains the simplicity of servicing and operation robustness. Additionally there is an increase of the evacuating capacities for the evacuation of vehicles, armoured personnel carriers and other semi-hung wheeled vehicles with a weight up to 30 t. To ensure it, hanging, tracking and binding appliances were developed, adapted, among others, to the evacuation of PANDUR II wheeled armoured personnel carriers.

The new vehicle is equipped with an electric power unit with a welding machine and with a possibility of connection of electric tools, which are included in its equipment. The vehicle is also equipped with workshop equipment, a safety overload switch and protection against contact with a high-voltage line.

440 kN

30 TONS

40 TONS

65 TONS

15 TONS

EVACUATION CAPACITY

The TREVA-15 vehicle has higher capacity for evacuation of semi-hung vehicles and enables transportation of 4 members of the evacuated vehicle's crew.

STANDARD EQUIPMENT



GENERATOR



WELDING AND CUTTING EQUIPMENT



MOBILE WORKSHOP



SPECIFIC PARAMETERS

crane capacity	15.0 t
max. crane outreach	7.7 m basic / 11.4 m with extension
crane capacity with the extension	4.0 t
winch - traction force	14.7 / 29.4 / 44.1 t depending on a number of pulleys *
rope length	150 m
auxiliary winch	0.6 t
rope length	320 m
evacuation capacity	up to 30 t (semi-hung evacuated vehicle)
	up to 40 t (vehicle evacuated on a towing rod)
towed vehicle weight	65 t

* 29.4 t with one pulley and 44.1 t with 2 pulleys

PARAMETERS

weight		31.5 t
dimensions	L	11,600 mm
	W	2,550 mm
	H	3,380 mm
motor	type	TATRA T3C-928.90
	power	300 kW at 1,800 rpm
mobility	top speed – on road	80 km/h
	top speed – off road	25 km/h
	cruising range (w/o jerry cans)	800 km
	fording (instant/preparation)	1.2 m / 1.5 m
	gradient	30°
	side slope	30°
	vertical obstacle	0.4 m
	trench crossing	2 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

50 KM/H

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



COMBAT RECOVERY OPERATIONS

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

PARAMETERS

weight		35.0t
dimensions	L	7,150 mm
	W	3,280 mm
	H	2,250 mm
engine	type	V 55A
	output	427kW
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

SPECIFIC PARAMETERS

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



EXCELLENT MOBILITY

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



EFFECTIVE PUMPS

High capacity intake pump and a floating pump for natural water reservoir sourcing or draining flooded spaces.



OPERATOR PLATFORM

Allows high reach and multiplies the options to use the vehicle.



PLATFORM VARIABILITY

The option to equip the vehicle with an armoured cabin, another axles or option to customize the superstructure equipment as needed.



DECON DECONTAMINATION VEHICLE

VERSATILE DECONTAMINATION AND DISINFECTION VEHICLE WITH A PRACTICAL HIGH-REACH OPERATOR PLATFORM

★
NEW
PRODUCT

1+2

115_{KM/H}

TATRA

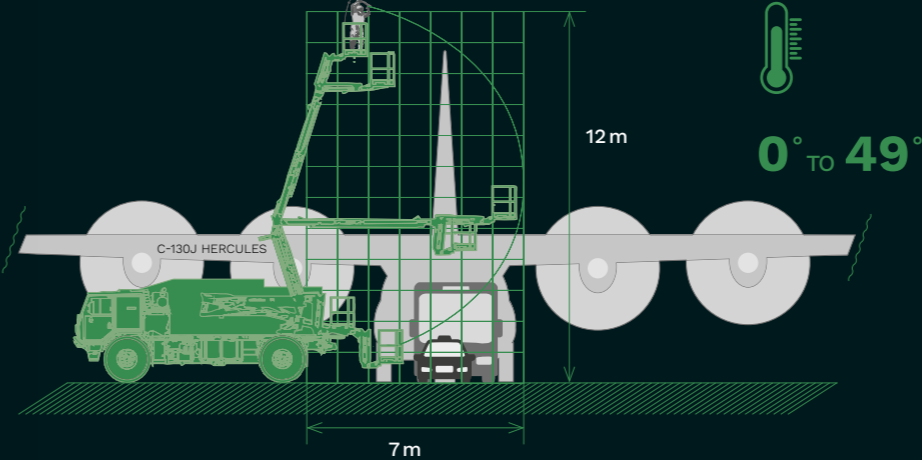
The **DECON** decontamination vehicle is designed to perform the entire decontamination of vehicles, people, armament and gear, incl. oversized equipment, decontamination of terrain, aircrafts, buildings and various objects thanks to the use of high-reach operator platform.

This vehicle is able to operate individually and also by the way of establishing decontamination workplaces for team-linked decontamination. It allows manual and automated decontamination thanks to use of a spraying bar on the platform or decontamination frame. It is a highly mobile vehicle on a modern **TATRA** military chassis with a 4x4 configuration. Optionally the vehicle can be made in a 6x6 configuration which allows higher tank capacity, even higher performance or reach of the platform. In case of customer preference, the vehicle can also be equipped with an armoured cabin.



WIDE DECONTAMINATION OPTIONS

Decontamination by hand gun, stationary automated or in movement thanks to frontal spray bar - fast decontamination of roads, airports or decontamination areas. Ability to decontaminate people, fight fires and mitigate industrial, ecological or health catastrophies.



PARAMETERS		
weight		19t
dimensions	L	7,820mm without the platform
		9,100mm with the platform
	W	2,550 mm
	H	3,150 mm
engine	type	Tatra T3C-928.81, V8
	output	270 kW
mobility	top speed - on road	115 km/h (without limiter)
		90 km/h (with limiter)
	top speed - off road	30 km/h
	cruising range	1,000 km
	fording depth	1.2 m (instant) / 1.5 m (with preparation)
	gradient	40°
	side slope	17°
	obstacle	0.5 m
	trench crossing	0.9 m

SPECIFIC PARAMETERS	
overall tank capacity	2,400l
individual tank capacity	2 x 700l + 1 x 1,000l
platform height reach	12m
platform side reach	7m
platform load capacity	200kg
pressure unit operation	cold at high pressure
	warm at low pressure
	hot at high pressure
	steam decontamination
	liquid and powderized decontamination mixes
	auxiliary electrical source



ARMOURED CABIN
OPTION

The vehicle can be extended with an additional axle and equipped with an armoured cabin or other upgrades per customer needs.



WIDE SCALE
OF ACCESSORIES

The UDS can be used with a basic bucket, but also with special buckets, boulder grapples, breakers, augers and other hydraulic attachments.



WORKING RANGE

The unique construction of the telescopic boom allows (in basic design) a horizontal reach of 14.6 m.



MICROTRAVEL

The possibility of controlling the chassis from the excavator cab increases the work productivity and UDS operability in the workplace.



UDS-214

MULTI-PURPOSE TELESCOPIC EXCAVATOR

NEWEST GENERATION OF A PROVEN MULTI-FUNCTIONAL
WORKER FOR COMBAT ENGINEERS AND CIVILIAN
EMERGENCY SERVICES



100 KM/H



115 M³/H

This universal machine is suited for terrain adjustments, digging, ground and demolition works, debris scattering, cleaning of rivers or ice floe disruption or improvised lifting of loads. It is very suitable also for civilian rescue operations.

The vehicle can be prolonged by one axle and equipped with an armoured cabin and further hardening for military use, thus becoming a ZS-214 special combat engineering machine.



PARAMETERS

weight		25t
dimensions	L	9,450 mm
	W	2,550 mm
	H	3,980 mm
engine	type	diesel engine, variable type
	output	230 - 325 kW
mobility	top speed	100 km/h
	cruising range	500 km
	fording depth (inst.)	1,200 mm
	gradient	31°

TURNING HEAD

The possibility of rotating the tool in the full range n x 360 degrees increases the machine variability during excavation works or with additional equipment, e.g. hydraulic hammer, mulcher, nippers etc.

SPECIFIC PARAMETERS

superstructure engine	power	93 - 104 kW
digging speed		115 m ³ /h
load capacity*	telescope retracted	7,000 kg
	telescope out	2,600 kg
hydraulic system		REXROTH
superstructure revolutions		8 rpm
tool revolutions		20 rpm
tool tilting range		145° + 2-side turning 360°

horizontal range

	telescope retracted	6.3 m
	telescope out	10.5 m
	with 4.5 m extension	14.6 m

depth reach (elevation 0°, -90° / elevation +30°, -60°)

	telescope retracted	2.9 m / 2.1 m
	telescope out	7 m / 5.7 m
	with 4.5 m extension	11.2 m / 9.2 m

* load capacity at tilt point of the rapid fastener (without extension attachments)



HIGH PERFORMANCE

Featuring the unique special developed clarifier, the water treatment unit presents high production capacity of up to 12 m3/h per 20" ISO container.



FULLY AUTOMATIC OPERATION

The only manual operation is refilling chemicals for water treatment.



VARIABLE DESIGN

Modular design of the system enables optimization of solutions based on requested level of performance and on the level of water pollution on the input - handling a range from light to oil water pollution.



COST-EFFECTIVENES

This compact solution bears minimum operating and manipulation costs and at the same time reducing the logistic support costs.



POSEIDON PS4W

WATER TREATMENT CONTAINER UNIT

HIGH-PERFORMANCE VARIABLE SURFACE AND SUBTERRANEAN CONTAINERISED WATER TREATMENT UNIT

UP TO 12 M³/H OPERATION

ISO CONTAINER

AUTOMATIC OPERATION

POSEIDON PS4W containerised water treatment unit is a highly effective mobile solution for armed forces and life-support system providing potable water supplies based on the very simple automatized production from raw surface or subterranean water.

At the place of use it just requires basic connection – to the raw water source, the treated water distribution system, the waste water drain and to the electric power unit - it may be integrated into the water treatment unit directly.

The water treatment unit is a two-level system, optionally enabling more levels. After filtration, the treated water is disinfected and purified – harmless.



MOBILITY

Standard containerized installation provides for fast use as needed by the user - immediate easy transportation available.

PRIMARY PURPOSE OF WATER TREATMENT CONTAINER

- providing potable water supplies to armed forces
- rescue operations in case of natural disasters
- stationary use, e.g. to provide water supplies to the population, water production for swimming pools, industry, power-plant engineering, agriculture and other

Prior to the water treatment unit use a techno-chemical analysis of the input water needs to be performed.

PARAMETERS

disposition		20" ISO container, alternative 40" ISO container
dimensions	L	6,058 mm
	W	2,438 mm
	H	2,438 mm
capacity		optional, up to 12 m ³ /h portable water per 20" container
function		basic is the 2-level water treatment unit, other levels optional
level 1		pre-filters + special developed clarifier
level 2		closed sand filter
waste water		6-8 % of capacity
waste water quality	pH	6-7.5
	HCO ₃	1-3 mmol/l
	CHSK _{Mn}	< 20 mg/l
	Colour	20-200 mg/l Pt
	Suspended matter	< 2,000 mg/l





UNIQUE CONCEPT

Unique Tatra chassis with independent semi-axles 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.



CUSTOMIZABLE

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



UNIVERSAL USAGE

Proven container carrier for fast deployment of mobile hospitals, workshops, command centers a other special operations.



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 TRUCKS

The **Kopřivnice** automotive maker, known under the **TATRA** brand, ranks among the oldest car and truck factories in the world. More than 120 years of TATRA's continuous activity has significantly influenced the automotive industry in the Czech Republic and abroad.



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 or 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.







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