

TRB **BUILD TO
LAST**

**MILITARY DEFENCE SOLUTIONS
SYSTEM INTEGRATION AND
PRODUCTION**

ABOUT US



TRB is a defence and security company steeped in history and tradition.

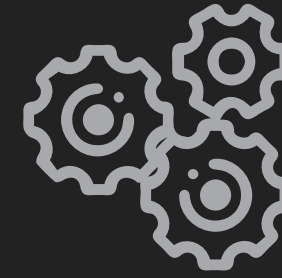
- ▶ Established in 1955
- ▶ Former main depot of Yugoslav Armed Forces specialised in arms and military vehicle re-furbishment and overhaul
- ▶ Approx. 22.000 m² of production and warehousing space
- ▶ Privatized in 2014, Government of the Republic of Srpska retains a minority stake
- ▶ More than 800 employees at 3 sites

LICENSES AND ACCREDITATION

TRB is licensed and accredited to:



DEVELOP



MANUFACTURE



EXPORT

ALL specifications of military technology and equipment defined
in the Common Military List of the European Union

ML1 THROUGH ML22

WE ARE ENABLERS!

With **OUR EXPERIENCED TEAM** consisting of former military, architects, project managers and engineers, we can **BUILD FROM SCRATCH** and are able to **PROVIDE A COMPLEX TURNKEY SOLUTION** for our costumers.

We can **ORGANIZE, TRAIN** and **EQUIP** them, thus enabling their forces to successfully meet challenges on a higher level.

As a System Integrator of defence solutions, we **PROVIDE COST EFFECTIVE RESULTS** to all your needs.



OVERHAUL AND REFURBISHMENT

We are highly experienced in overhauling various types of combat vehicles such as:

▶ **TRACKED COMBAT VEHICLES:**

- Tanks
- Armoured and tracked vehicles
- Self-propelled artillery

▶ **WHEELED COMBAT VEHICLES:**

- Armoured cars and carriers
- Specialist vehicles

TRB has extensive facilities, expertise and spares to overhaul, produce and upgrade the following categories of infantry weapons:

- ▶ Pistols, revolvers & handguns
- ▶ Automatic and semi-automatic rifles including their accessories & attachments
- ▶ Shotguns
- ▶ Mortars (60mm/ 81mm/120mm)

Artillery refurbishment:

- ▶ Anti-aircraft cannons (cal .50 to 40 mm)
- ▶ Cannons (75 mm/ 100 mm/130 mm/155 mm)
- ▶ Howitzer (105 mm/120 mm/122 mm)



KNOW-HOW-TRANSFER TRAINING PROGRAMS

From development and building of **FACTORIES, INTEGRATED SECURITY SOLUTIONS, TECHNOLOGY AND KNOWLEDGE TRANSFER**, we are already making an important contribution to the development and growth of our partners' defence capabilities in **EASTERN EUROPE, AFRICA AND THE MIDDLE-EAST**.

We offer **TRAINING, MENTORING, PARTNERING, MONITORING** and **MANAGEMENT SERVICES**.

Custom Training Course Design and Development

Training Consultancy and Mentoring

Training of Trainers

Military Training Solutions

Technical Training

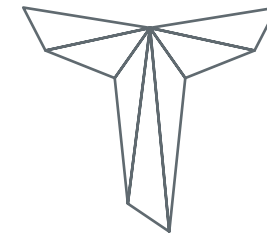
Electronics Manufacturing, Servicing & Maintenance

Mechanical Manufacturing, Servicing & Maintenance

Emergency Response Health and Safety

Defensive Driving Courses

Fire Fighting & Fire Safety Trainings



TRB PRODUCTS

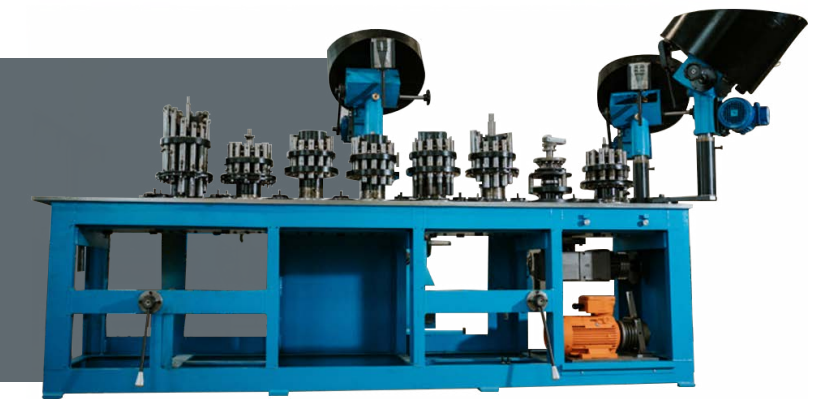


VIHOR

4X4 LIGHT ARMOURED TACTICAL VEHICLE

DRINA

AMMUNITION PRODUCTION LINE



DESPOT

4X4 ARMOURED VEHICLE

FUZES

FOR MILITARY USE



RS9 VAMPIR

9 mm SEMI-AUTOMATIC PISTOL

ELECTRONIC SYSTEMS



MH-17

DEMINEING MACHINE

MOBILE POWER & WATER SYSTEMS



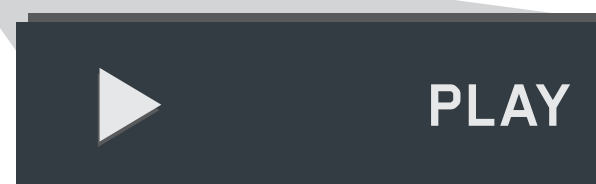
VIHOR

4X4 LIGHT ARMoured TACTICAL VEHICLE

Vihor is a highly mobile 4x4 light tactical vehicle, ballistic and blast protected Level 2a and 2b according to STANAG 4569.

- ▶ Custom-built non-commercial modular chassis
- ▶ Independent suspension,
- ▶ Hydraulic braking system
- ▶ Fording capability to withstand a water barrier of 1,4 m whilst in motion.
- ▶ Maximum speed: Over 120 km/h, with powerful acceleration at any gear
- ▶ Weight: 8t + 2 payload
- ▶ Crew space options:
2+2 or 2+3 inside / 2+2 outside

VIDEO PRESENTATION



DESPOT

4X4 ARMOURED MULTI-PURPOSE VEHICLE

Type of vehicle:

- ▶ Designed and manufactured by TRB
- ▶ Tactical 4x4 all terrain wheeled vehicle
- ▶ In the category of MRAP (Mine Resistant Ambush Protected)– STANAG Level 2
- ▶ Monolithic design
- ▶ Advanced technical and tactical characteristics
- ▶ 6.05m long, 2.70m high and 2.56 wide.
- ▶ Reachable speeds of over 120 km/h
- ▶ Weight 13,5t with additional payload of 4,5t

VIDEO PRESENTATION



PLAY



RS9 VAMPIR

9 mm SEMI-AUTOMATIC PISTOL

The RS9 model is a combination of the latest knowledge and skills in the field of arming devices.



VIDEO PRESENTATION

PLAY

TECHNICAL DATA

Manufacturer	Tehnički Remont Bratunac AD	Muzzle Energy	490 m/s (dependant on ammunition)
Caliber	9x19 mm PARA	Overall length	190.5 mm
Magazine Capacity	18 rounds	Height	138.2 mm
Fire mode	Semi-Automatic	Height with magazine	150.6 mm
Operation	Short recoil operated, locked breach	Weight loaded	1100 gr
Trigger system	DA/SA	Weight unloaded	920 gr
Trigger pull	SA 2.2kg / DA 5.5kg	Weight without magazine	829 gr
Effective fire range	50 m	Slide Width	25 mm
Maximum Range	150 m	Rail	Picatinny MIL-STD-1913
Barrel length	108 mm	Safety	De-cocking lever & Firing pin safety
Barrel material	Chrome Molybdenum Steel	Coating	Ceramic coating
Twist rate	250 mm	Frame	Aluminum alloy
Rate of fire	120-140 RPM	Grips	Rubber - plastic combination
Pitch rifling	250 mm	Trigger travel	13,9 mm
Type of rifling	hexagonal, polygonal	Return travel	16,1 mm
Rifling grooves	6 grooves, right-hand twist	Frame	Aluminum alloy
Sights	fixed 3 dots	For more info	www.trb.ba
Sight radius	161 mm		
Muzzle Velocity	360 m/s		

* all data subject to change without prior notice

MH-17

SYSTEMS FOR HUMANITARIAN DEMINING

Concept of the demining machine MH-17 was based on experience in the production of machines MH-05.

It belongs to the **MIDDLE CATEGORY** of machines according to international standards for classification of humanitarian demining (**IMAS**).

Mass of machine with a working tool: **15,5 t**

Maximum speed: **5 km/h**

Minimum speed: **0,1 km/h**

In the terms of comfort - **ELASTIC SUSPENSION** of the cabin to **PROTECT AGAINST VIBRATION** with **THERMAL** and **SOUND INSULATION**.

The machine is designed to enable the replacement of various demining tools and other tools such as demining tiller, demining flail, vegetation cutter, universal excavator bucket with 6 functions (digging, loading, dozing, grading, backfilling, grabbing), forklift, robot arm and others.

Working tools are designed so that the tool can be replaced in field conditions by the machine operator within 15 minutes.

We can **PROVIDE TRAINING** (theoretical and practical) for personnel handling the machine and machine maintenance staff.

The machine is operated directly from the armoured cabin. In addition to direct cabin control, the machine can also be remotely controlled as an option.

MH-17

SYSTEMS FOR HUMANITARIAN DEMINING

We have made improvements in terms of **COMFORT**,
MACHINE HANDLING, **PROTECTION AGAINST EXPLOSION**,
PRODUCTIVITY and **DESIGN**.

VIDEO PRESENTATION



PLAY



DRINA

SMALL CALIBRE AMMUNITION PRODUCTION LINE

DESIGN, MANUFACTURE & COMMISSIONING OF COMPLETE PRODUCTION LINES

Ammunition Production Line for SMALL ARMS

CALIBERS - 9mm up to, but not including, 12.7 mm (rifle, revolver and pistol).

Standard output of 200 pieces per minute, 20 million pieces per year in one 8 hour working shift.

Technical Ammunition procedure at HIGHEST TECHNOLOGICAL LEVEL producing a HIGH QUALITY PRODUCT.

Supply of Machines, supply of Machinery for a Production Line, Training, Advisory Services and Turnkey Solution options.

ENGINEERING SERVICES

1. Know-how documentation
2. Equipment installation
3. Supervision over installation
4. Commissioning of production
5. Trial run
6. Equipment performance test
7. Maintenance after commissioning
8. Training
9. Turnkey solution / Plant engineering

VIDEO PRESENTATION



PLAY



FUZES FOR MILITARY USE

A DEVICE WITH EXPLOSIVE COMPONENTS DESIGNED TO INITIATE A MAIN CHARGE

A fuze is a device that **DETONATES A MUNITION'S EXPLOSIVE** material under specified conditions.

Fuzes will have safety and arming mechanisms that **PROTECT USERS FROM PREMATURE or ACCIDENTAL DETONATION.**

For example, an artillery fuze's battery is activated by the high acceleration of cannon launch, and the fuze must be spinning rapidly before it will function.

COMPLETE BORE SAFETY is achieved with mechanical shutters that **DELAY DETONATION OF THE MAIN CHARGE** until after the shell is fired.

A fuze may contain only the electronic or mechanical elements necessary to signal or actuate the detonator, but some fuzes contain a small amount of primary explosive to initiate the detonation. Fuze explosive charges may include an explosive booster.

The situation of usage and the characteristics of the munition it is intended to activate affect the fuze design e.g. it's safety and actuation mechanisms.

Categorization by activation mechanism

- ▶ Time fuze
- ▶ Impact fuze
- ▶ Proximity fuze
- ▶ Barometric fuze

Categorization by munition type

- ▶ Artillery fuze
- ▶ Hand grenade fuze
- ▶ Aerial bomb fuze
- ▶ Land mine fuze
- ▶ Naval mine fuze



ELECTRONIC SYSTEMS

- ▶ 3D, Solid State, Digital Beam forming in elevation
- ▶ Mobile radars designed to support Air Defense
- ▶ Early Warning and Traffic Control Activities, Long Range and Gap filler systems
- ▶ Radar Networks
- ▶ C2, C3, C4I Systems
- ▶ Reliability (MTBF 2400 Hr) and easy maintenance (MTTR 20 min)

SERVICE AND MAINTENANCE SUPPORT

- ▶ Specialized workshop
- ▶ Mobile workshop
- ▶ IT based support



MOBILE FLEX POWER

MFP is a complete mobile solution for **ACCESS TO DRINKING WATER, WATER-IRRIGATION** and **ELECTRICAL POWER** for all its customers.

MFP contains a **FULLY AUTOMATIC ENERGY MANAGEMENT SYSTEM** which includes a water treatment system that is operated by an independent diesel generator and combined with a PV panel system and a small wind turbine generator.

WATER TREATMENT / MFP HYDRO:

- ▶ Provide water for 1800 persons per day (with average consumption of 50 l/day, per person)
- ▶ Output value for consumer supply: **up to 100 m³/d**
- ▶ Water storage: **mobile bulk water tanks or water towers**

POWER PRODUCTION:

- ▶ Output value for consumer supply: **up to 100 kW**
Container data: **20 ft. Iso**
- ▶ Containers in modules
- ▶ Energy sources: **diesel, PV, wind**
- ▶ Energy storage: **up to 575 kWh**



CORPORATE RESPONSIBILITY

TRB is a company focused on supporting the local community, therefore we sponsor cultural and sports events, when we have the opportunity.

TRB LITERATURE NIGHT



KIDS BASKETBALL TEAM



PRESENTS FOR KIDS



KARATE TEAM



DIVING TEAM



ALTERNATIVE CULTURE FESTIVAL



SCHOLARSHIPS FOR STUDENTS



RS CHALLENGE TOURNAMENT TRB SHIN YOKUSIN CLUB



BANJA LUKA PHILHARMONIC EVENT IN BIJLELJINA



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