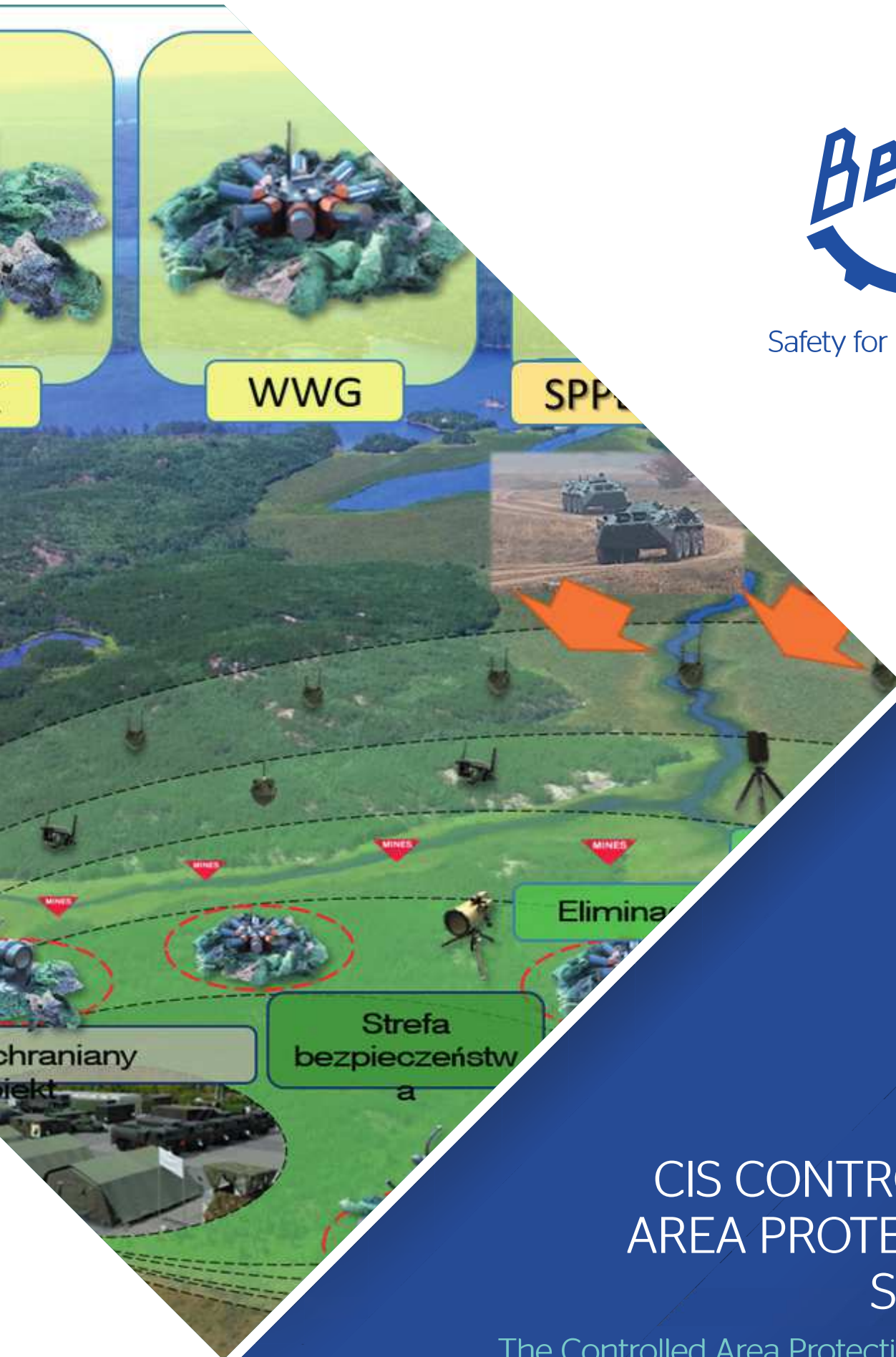




Safety for generations



CIS CONTROLLED AREA PROTECTION SYSTEM ◀

The Controlled Area Protection System is designed for detection and elimination of enemy personnel and land military technology from the battlefield in the MITL (Man-In-The-Loop) operating mode.



Safety for generations

Technical data:

Maximum range of long-distance communication:

5 - 20 km – depending on terrain conditions

Maximum range of short-distance communication:

100 - 300 m – depending on terrain conditions

Anti-handling device:

Yes

Effectors (BZE „BELMA” S.A.):

Ant-tank, anti-personnel, camouflage, deterring

Sensors (Mindmade Sp. zo.o.):

Acoustic-Seismic, infrared, miniradar

Mode of operation:

Controlled
(MITL – Man In The Loop))

Maximum standby time:

30 days to 2 years
(varying across different components)

The Controlled Area Protection System provides an effective means of protecting and safeguarding critical areas by virtue of remote detection and neutralisation of threats posed by potential enemies or other unauthorised persons while not putting own personnel at risk. Detection of enemies by sensors is communicated on the operator's panel. By confirming the danger level, the operator remotely activates effectors adequate for a given tactical situation and effective against enemy personnel or land military technology. The system is characterised by high autonomy (highest autonomy within the limits provided for by law) and easy (without the use of heavy equipment) implementation in the field.

Bydgoskie Zakłady Elektromechaniczne

„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



CK-125 TRAINING FUZE

CK-125 training fuzes are used for arming 125 mm 3BK14M high-explosive anti-tank projectiles used during training in shooting from D-81 cannons over a distance of up to 2000 m.



Manufactured under a licence.



Safety for generations

Technical data:

Weight:
175 g


Length:
82 mm

Diameter:
42 mm

Connecting socket:
M42 x 1,5 L

Time of installation in a projectile:
5 minutes

Self-destruction:
Yes



The fuze has been designed to facilitate training in shooting 3BK14M projectiles from tanks armed with D-81 cannons. The fuze can be used by screwing out the standard 3W15 fuze with a lead washer from the 3BK14M projectile and screwing in the CK-125, additionally replacing the sealing washer. The fuze is equipped with an arming and securing system, and a self-destructor. It ensures that projectiles do not explode after hitting the target during shooting but instead its self-destructor actuates self-destruction after the set time. The process of arming the fuze is initiated automatically and instantaneously after the shot. The lead sealing washer (stored in a separate package) is provided with the fuze as additional equipment.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



EZK-100 ELECTRONIC CAPACITOR EXPLODER ◀

The EZK-100 exploder is designed for remote initiation of ignition in igniting units of ERG electrical detonators or mining electrical units connected into an electrical firing circuit.



Safety for generations

Technical data:

Weight:
0,55 kg

Size:
102/155/36 mm

Power supply voltage:
3 V

Accumulated energy:
5 J

Output voltage:
Min. 1250 V (depending on the operating temperature)

Max. time to full combat readiness:
8 s

Max._{RLS max} resistance of the series firing circuit:
500 Ω for 100 detonators (0.2 A) connected in a series circuit

Continuity of the firing line is indicated after the exploder is connected to the electrical circuit. Upon pressing the „Ł” (charging) button, energy required for actuation of the detonators begins to accumulate. Maximum time needed for the exploder to become ready for detonation is 8 seconds. The detonators are launched by pressing the “W” button. Operating temperatures of the exploder are in the -30°C to 50°C range.

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„BELMA” S.A.
with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



ENGINEERING MINE SCATTERING SYSTEM ◀ (ISMN)

The ISMN is designed for creating anti-tank minefields by scattering anti-tank MN-123 mines from a thrower mounted on a carrier vehicle.



Safety for generations

Technical data:

Weight of one thrower (unloaded/loaded):
360/880 kg

Weight of one cluster (loaded):
26 kg

Size of the thrower:
142/90/130 cm

Throwing range :
30-90 m

Number of clusters in one thrower:
20 pcs

Number of mines in one cluster:
5 pcs

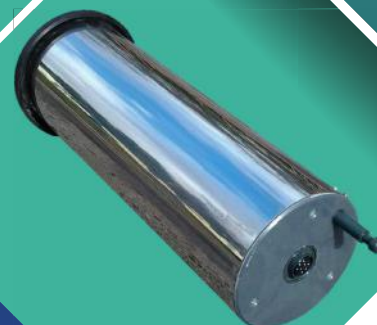
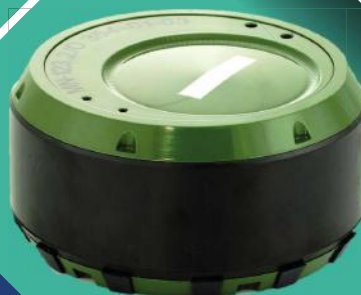
Mine type:
MN-123 with an EFP
two-directional charge

RHA penetration:
60 mm

Self-destruction:
Programmable

Self-neutralisation:
Yes

CCW convention compliance:
Is self-destructible,
self-neutralisable,
detectable



The system includes a carrier vehicle, throwers with mine clusters, and a controller installed in the driver's cab, among other components. The thrower can be mounted on both wheeled and tracked vehicles; recommended number of throwers mounted on one vehicle is 4 to 6. With 6 throwers mounted, the ISMN is capable of throwing 600 mines in less than 3 minutes, creating a vast minefield 180 m wide and 1000 m long. The mines are actuated after detection of a vehicle outline moving above them. They are activated by magnetic fuzes. It is possible to program the mines to self-destruct after a set time before scattering them. MN-123 mines can inflict extensive damage on the vehicle even if it is not penetrated. The mines are also available as training mines - MN-123/C and mock-ups - MN-123/O.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



MINE CLUSTER WITH MN-123 ANTI-TANK SCATTERABLE MINES ◀

The mine clusters with MN-123 mines are designed for creating anti-tank minefields by scattering mines as part of the Engineering Mine Scattering System.



Manufactured under a licence.



Safety for generations

Technical data:

Weight:
26 kg

Diameter:
188/218 mm

Length:
66,4 cm

Number of mines :
5 pcs

Throwing range:
30 ÷ 90 m

The mine clusters contain 5 anti-tank mines with propelling charges and electrical systems that allow programming self-destruction times and throwing of individual mines. The mine cluster facilitates mine throwing from a TME or MZK-E multi-barrel thrower mounted on a carrier vehicle. As the mines are packed into clusters, loading the thrower is fast and smooth - the time needed to load 400 mines into 4 throwers does not exceed 80 minutes.

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„BELMA” S.A.
with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



MN-123 ANTI-TANK MINE

MN-123 anti-tank mines are designed for creating minefields using the Engineering Mine Scattering System.



Manufactured under a licence.



Safety for generations

Technical data:

Weight:
3,7 kg

Size (diameter/height):
180/90 mm

Charge type:
Shaped charge (EFP),
two-directional

RHA penetration:
60 mm

Fuze type:
Magnetic, delayed
or instantaneous

Self-destruction:
Programmable

Self-neutralisation:
Yes

CCW convention compliance:
Is self-destructible,
self-neutralisable,
detectable

The MN-123 mine is armed with a two-directional shaped charge and fitted with a self-destruction and a self-neutralisation system. The mine is actuated after detection of a vehicle outline moving above it or after a set self-destruction time has passed. The mine has a two-level safety system. There are three models of the MN-123 mine available: MN-123 – the combat model, MN-123/C – a training model, and MN-123/O – a mock-up model. The training models are intended for training crews of the mine scattering vehicle or carrier and sapper squads in creating scattered minefields. The mines are packed in mine clusters in groups of five.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



MPB-ZK OFF-ROUTE ANTI-TANK MINE WITH A CONTACT FUZE

The MPB-ZK mine is designed for eliminating combat vehicles and military means of transport from the battlefield by hitting their sides.



Manufactured under a licence.



Safety for generations

Technical data:

Weight:
45 kg

Length/height/width :
45/39/70 cm

RHA penetration:
100 – at a distance of up to 50 metres

Power supply:
Battery

Anti-handling device:
Yes

Self-destruction:
Programmable

Durability:
Near explosion of another
mine, strong
electromagnetic fields

The mine is designed to supplement and increase the effectiveness of various engineered fortifications, particularly in places where using other mines is difficult or where they are useless (forest roads, hard-surfaced urban areas). When tracks or wheels of a vehicle roll onto one of the 10 pressure sensors, the contact fuze actuates mine detonation. If no target is detected, the mine automatically destructs itself after the set time has passed. There are also two models of the MPB-ZK intended for training sapper subunits – the MPB-ZK/Sz, an educational model, and the MPB-ZK/C – a training model.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



MPB-ZN OFF-ROUTE ANTI-TANK MINE WITH AN INFLUENCE FUZE

The MPB-ZN mine is designed for eliminating combat vehicles and military transport vehicles from the battlefield by hitting their sides.



Manufactured under a licence.



Safety for generations

Technical data:

Weight:
45 kg

Length/height/width :
45/39/70 cm

RHA penetration :
100 - at a distance of up to 50 metres

Power supply:
Battery

Anti-handling device:
Yes

Self-destruction:
Programmable

Programmable selectivity:
Ability to attack consecutive targets in a column of vehicles

Durability:
Near explosion of another mine, strong electromagnetic fields

The mine is designed to supplement and increase the effectiveness of various engineered fortifications, particularly in places where using other mines is difficult or aimless (forest roads, hard-surfaced urban areas). The influence fuze connected to acoustic and thermal sensors actuates mine detonation after a vehicle crosses optical axis of the thermal sensor.

If no target is detected, the mine automatically destructs itself after the set time has passed. There are also two models of the MPB-ZN intended for training sapper subunits – the MPB-ZN/Sz, an educational model, and the MPB-ZN/C – a training model.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



MPBK-ZN DIRECTIONAL OFF-ROUTE ANTI-TANK MINE

The MPBK-ZN mine is designed for eliminating tanks, infantry fighting vehicles, armoured personnel carriers, and off-road trucks from the battlefield.



Safety for generations

Technical data:

Weight:
42 kg

Length/height/width:
45/67/45 cm

RHA penetration:
100 mm – at a distance of up to 50 metres

Power supply:
Battery

Anti-handling device:
Yes

Self-destruction:
Programmable

Mode of operation:
Automatic / Controlled (MITL)

Aiming:
Azimuth - 360°; Elevation - $\pm 20^\circ$

Sensors:
Acoustic / Thermal

The MPBK-ZN off-route anti-tank mine is equipped with a thermoacoustic influence fuze able to detect presence of military vehicles within the effective range of the mine, identify the type of the vehicle, and locate its position relative to the mine. After the fuze sends a signal, the actuating system turns the EFP warhead toward the target and initiates detonation. The mine is able to effectively hit targets across a few dozen metres and can be used to protect country borders, for defensive operations, delaying actions, protecting retreat of own troops or protecting buildings (e.g. command posts) in areas of troop deployment.

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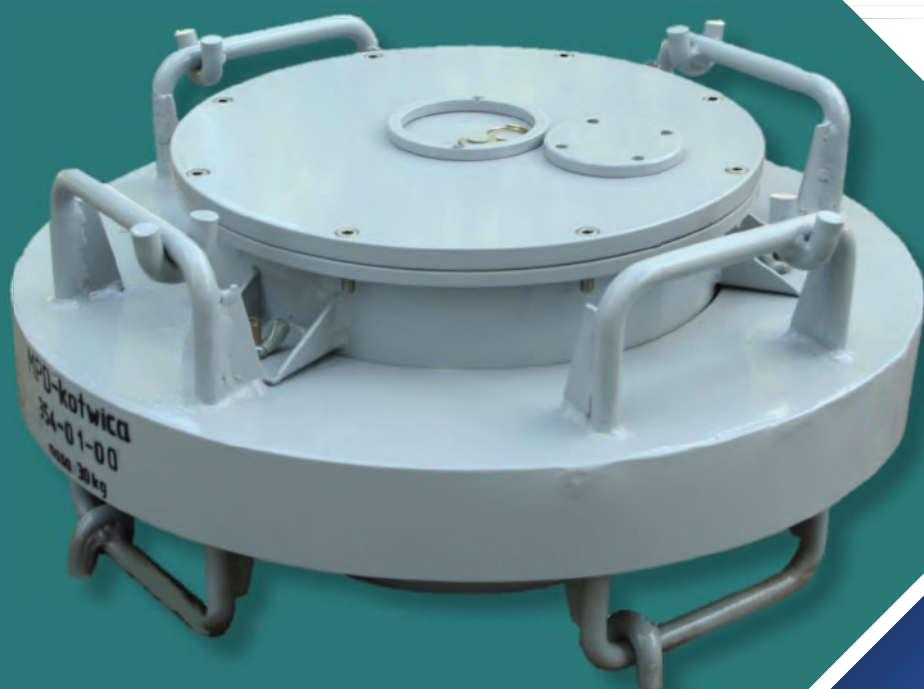
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ul. Łochowska 69, 86-005 Białe Błota, Poland
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Safety for generations



MPD BOTTOM MINE

The MPD mine is designed for mining seashore waters. It is suitable for mechanical and manual mine laying from amphibious transport vehicles.



Manufactured under a licence.



Safety for generations

Technical data:

Weight:
69 kg

Size:
60/27 cm

Fuze:
Influence / magnetic

Power supply:
Battery

Maximum laying depth:
5 m

Self-destruction:
Yes

Anti-handling device:
Yes

MPD mines can be effectively used to neutralise landing vessels and vehicles as well as amphibious fighting vehicles. The mine is fitted with an influence fuze and a self-destruction system. It detects targets above the mine within an area with a 5 m radius; the maximum submergence depth is 5 m. It eliminates vessels with demagnetised hulls from the battlefield as well. It has two independent safety systems that prevent the fuze from automatically switching to combat-ready mode.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



MR-123 ANTI-TANK SHAPED CHARGE MINE ◀ FOR MANUAL LAYING

The MR-123 manually laid anti-tank mine is designed for eliminating armoured fighting vehicles and military means of transport from the battlefield.



Safety for generations

Technical data:

Weight:
3,7 kg

Size (diameter/height) :
167/90 cm

Charge type:
Shaped charge (EFP), two-directional

RHA penetration :
60 mm

Fuze type:
Magnetic, delayed or instantaneous

Self-destruction:
Programmable

Self-neutralisation:
Yes

CCW convention compliance:
Is self-destructible,
self-neutralisable,
detectable

The MR-123 mine is armed with a two-directional shaped charge and fitted with an influence fuze as well as a self-destruction and a self-neutralisation system. The mine is actuated after detection of a vehicle outline moving above it or after a set self-destruction time has passed. The mine has a two-level safety system. There are three models of the MR-123 mine available: MR-123 – the combat model, MR-123/C – a training model, and MR-123/O – a mock-up model. The training models are intended for training sapper squads in laying mines on traditional minefields.

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„BELMA” S.A.
with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



CONTROLLED ANTI-TANK ◀ ANTI-VEHICLE MINE

SPPŁW mines are designed for eliminating infantry vehicles, armoured personnel carriers, and off-road trucks from the battlefield.





Safety for generations

Technical data:

Weight:

7 kg

Length/height/width:

30/18/15 cm

RHA penetration:

60 mm - at a distance of up to 50 metres

Power supply:

Battery

Anti-handling device:

Yes

Self-destruction:

Programmable

Programmable selectivity:

Ability to attack consecutive targets in a column of vehicles

Mode of operation:

Automatic
/ Controlled (MITL)

Sensors:

Acoustic; Thermal

The SPPŁW off-route anti-tank mine is equipped with a thermoacoustic influence fuze able to detect presence of military vehicles within the effective range of the mine. The EFP warhead is able to effectively hit targets across a few dozen metres. The mine can be used to protect country borders, for defensive operations, delaying actions, protecting retreat of own troops, protecting buildings (e.g. command posts) in areas of troop deployment, and for subversive warfare.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



TMN AND MZK-E MINE THROWERS

The thrower is one of the elements of the Engineering Mine Scattering System and is designed for firing anti-tank scatterable MN-123 mines.



Manufactured under a licence.



Safety for generations

Technical data:

Weight:
360 kg

Length/height/width:
142/90/130 cm

Calibre:
188 mm

Width of the minefield:
max. 180 m

Throwing directions:
Laterally and behind the carrier

Programming SD time of the mines:
Through the control unit

**Duration of loading
the thrower with mines:**
20 minutes

The thrower can be used by subunits of engineering troops to create anti-tank minefields by scattering mines. What makes this product unique is that it has the greatest scattering range among throwers of this type - it can create wider minefields than competing systems. It includes a mechanically coupled set of 20 barrels armed with MN-123 mine clusters. It is connected to a controller that gives control over scattering density of the minefield. A moving carrier with throwers facilitates scattering the mines onto the minefield parallel to the route while maintaining its own safety. The design of the throwers makes it possible to scatter the mines laterally, on both sides of the vehicle, and behind it.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
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Safety for generations



UZRGM FUZE FOR HAND GRENADES

The fuze is designed for arming F-1, RG-42, RGO-88, and RGZ-89 hand fragmentation grenades. The two available models are the combat model - UZRGM and the training model - UZRGM-ĆW.



Manufactured under a licence.



Safety for generations

Technical data:

Weight:

0,045 kg

Length:

104 mm

Socket:

Sp 15,45 x 13 zw/”

Socket length :

9,6 mm

Fuze time delay:

3,2 – 4,0 s.

The UZRGM fuze is designed for arming hand fragmentation grenades that are equipped with the Sp 15.45x13 zw/” special socket. Grenades armed with the UZRGM fuze are characterised by high effectiveness and reliability in all terrain and weather conditions. The UZRGM fuze can be classified as a mechanical delay fuze. It is equipped with an impact mechanism and a pyrotechnical retarder. After the grenade is actuated and the time of the delay has passed, the detonating cap is activated and initiates explosion of the main explosive.

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with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
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e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



TACTICAL WARHEADS FOR UNMANNED AERIAL VEHICLES ◀

The warheads are designed for eliminating light tanks and armoured personnel carriers as well as shooters, machine-gun nests, and strongpoints from the battlefield.



Manufactured under a licence.



Safety for generations

Technical data:

Diameter:
98 mm

Length:
205 mm

Power supply:
12 V

Resolution of the daylight camera:
40 x 480 pix

GO-1 HE high-explosive warhead:
Weight:
1,2 kg

Warhead blast radius:
12 m

**GK-1 HEAT high-explosive
anti-tank warhead:**
Weight:
1,08 kg

Warhead penetration:
120-150 mm RHA

The warheads can be integrated with a miniature Unmanned Aerial Vehicle (UAV) that is compliant with specific mechanical, ergonomic, electrical, functional and IT requirements as well as those regarding data and signal exchange between the two devices. A UAV armed with the tactical warheads facilitates observation of approaches, guidance, and performance of combat, training, and school fire tasks. They can be assembled and operated by one operator. There are various models of the warheads available: high-explosive, high-explosive anti-tank, training, and educational.

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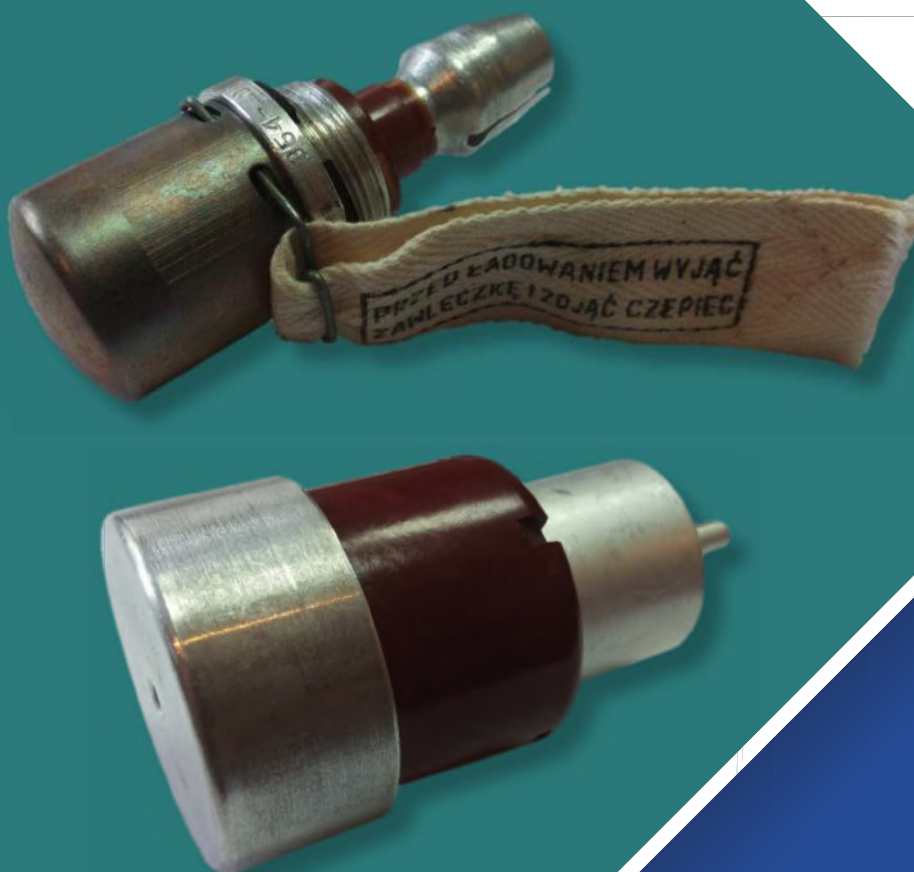
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ul. Łochowska 69, 86-005 Białe Błota, Poland
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e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



WP-7M FUZE FOR PG-7 ANTI-TANK GRENADES ◀

The WP-7M fuze is designed for arming PG-7 anti-tank grenades projected from hand grenade launchers. It is used to initiate explosion of the grenade after impact with the target.



Safety for generations

Technical data:

Size of the head module :
64/23 mm

Size of the bottom module:
75/37 mm

Socket:
Sp 19,96x1

Weight:
0,137 kg

Fuze type:
Impact

Self-destruction:
Yes

WP-7M is a two-module impact fuze armed while flying in the air. It is composed of a head module and a bottom module, which are electrically connected. It is instantly activated after impact with an obstacle. If it does not reach a target within 4-6 seconds of launching it, the self-detonator causes the grenade to explode.

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„BELMA” S.A.
with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



WP-9 FUZE FOR PG-9 ANTI-TANK GRENADES ◀

The WP-9 fuze is designed for arming PG-9 anti-tank grenades projected from SPG-9 heavy anti-tank grenade launchers. It is used to initiate explosion of the grenade after impact with the target.



Safety for generations

Technical data:

Size of the head module:
92/23 mm

Size of the bottom module:
75/37 mm

Socket:
Sp 19,96x1

Weight:
0,148 kg

Fuze type:
Impact

Self-destruction:
Yes

WP-9 is a two-module impact fuze armed while flying in the air. It is composed of a head module and a bottom module, which are electrically connected. It is instantly activated after impact with an obstacle. If it does not reach a target within 4-6 seconds of launching it, the self-detonator causes the grenade to explode.

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with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
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e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



WGW MULTIDIRECTIONAL GRENADE LAUNCHER

The grenade launcher of the Controlled Area Protection System is designed for eliminating enemy personnel from the battlefield in the man-in-the-loop operating mode (MITL).





Safety for generations

Technical data:

Weight:
16 kg

Length/height/width:
40/20/40 cm

Launching range:
40 m

Effective area:
8 x (52 x 24 m)

Anti-handling device:
Yes

Grenade types:
Fragmentation; Smoke; Stun

**Blast radius of a single
fragmentation grenade:**
12 m

Mode of operation :
Controlled
(MITL – Man In The Loop)

Sensors:
Disturbance
(Trip-over sensors)

The grenade launcher, as part of the Controlled Area Protection System, provides an effective means of protecting critical areas by virtue of remote detection and neutralisation of threats posed by potential enemies or unauthorised persons while not putting own personnel at risk. Detection of enemies by sensors is communicated on the operator's panel. The operator confirms the danger level and actuates the launcher projecting a grenade. The grenade explodes near the place where the target was detected.

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with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl





Safety for generations



ZN-97 MAGNETIC FUZE

The ZN-97 influence fuze is designed for arming a wide spectrum of traditional anti-tank mines that have a standardised Rds 125x5 threaded fuze socket (TM-62M, MPP-B)



Safety for generations

Technical data:

Weight:
1,2 kg

Diameter:
163 mm

Height:
90 mm

Socket:
Rds 125 x 5

Activation system:
Influence (passive)

Power supply:
Battery

Self-destruction:
Programmable

Ant-handling device:
Yes

The fuze is actuated when affected by a local disturbance of the Earth's magnetic field caused by a vehicle that is moving above it. The ZN-97 reacts when it detects the outline of a vehicle above it or within 0.5 m. Mines armed with ZN-97 fuzes can be laid manually or mechanically using self-propelled or towed minelayer vehicles. There is also a training model - ZN-97/Sz - of the ZN-97 fuze designed for training engineering subunits in operation of the fuze and laying mines on traditional minefields.

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„BELMA” S.A.

with registered office in Białe Błota

ul. Łochowska 69, 86-005 Białe Błota, Poland
tel.: +48 52 36 36 201, fax: +48 52 36 36 203
e-mail: bze@belma.com.pl • www.belma.com.pl

