

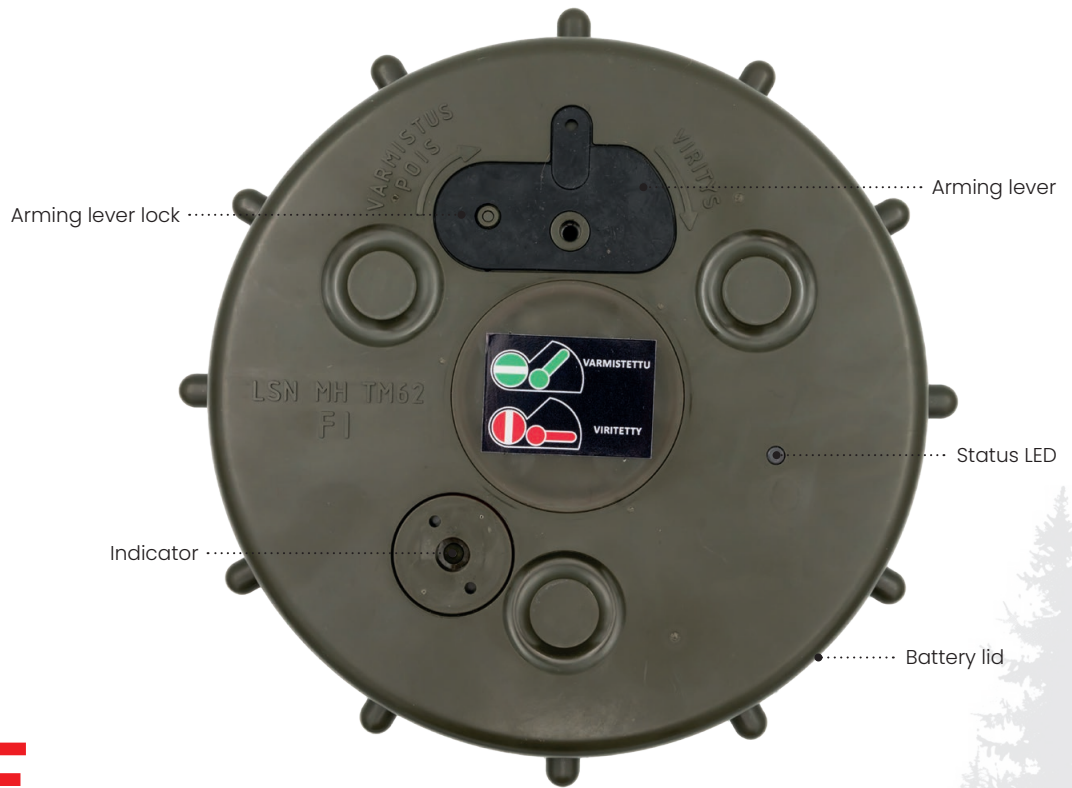


MACHINERY AND PYROTECHNICAL PRODUCTS SINCE 1946



ATMF

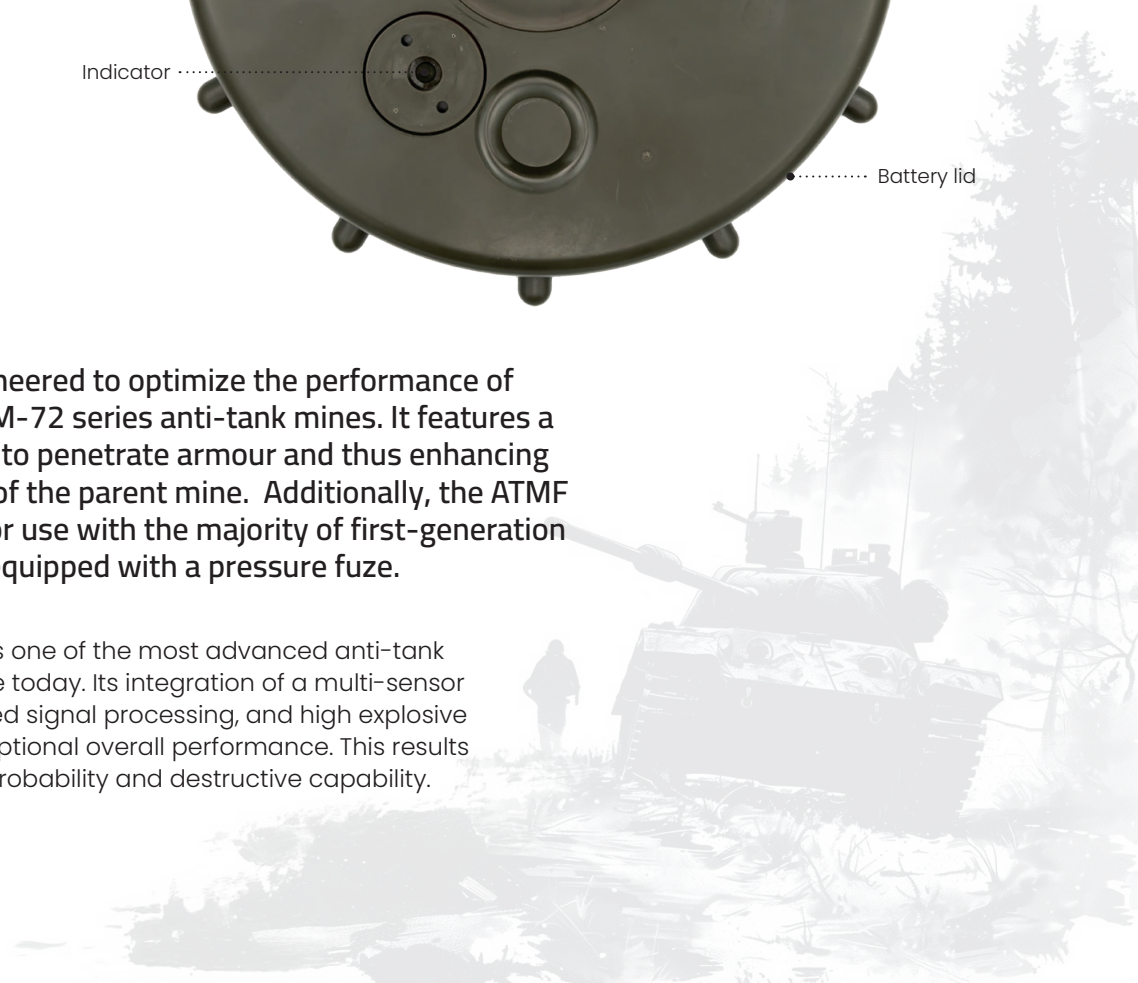
ANTI-TANK MINE FUZE



ATMF

The ATMF is engineered to optimize the performance of the TM-62 and TM-72 series anti-tank mines. It features a small EFP charge to penetrate armour and thus enhancing the performance of the parent mine. Additionally, the ATMF can be adapted for use with the majority of first-generation anti-tank mines equipped with a pressure fuze.

The ATMF represents one of the most advanced anti-tank mine fuzes available today. Its integration of a multi-sensor system, sophisticated signal processing, and high explosive power delivers exceptional overall performance. This results in unparalleled hit probability and destructive capability.



KEY FEATURES

- Full-width attack capability
- Penetrates more than 75 mm of steel
- Operates either when placed on the surface or buried underground
- Ensures safe disruption of the explosive sequence during storage and handling
- Provides safe arming delay time
- Field-programmable operational lifetime
- Programmable pre-setting of by-passings
- Built-in anti-lifting device
- Capable of being deactivated or activated using the DEPROG 62 device
- Ensures reliable self-neutralization upon the expiration of its operational lifetime
- Displays its status using a status LED and a self-neutralization indicator
- Resistant to clearance by mine rollers
- Resistant to explosive clearance techniques
- Resistant to clearance by electromagnetic signature duplicators
- System safety in accordance with STANAGs 4497, 4157 and 4187
- Complies with international conventions: Contains more than 8 grams of solid iron
- Does not trigger an explosion when detected by a pulse-action mine detector
- Both training and handling versions available

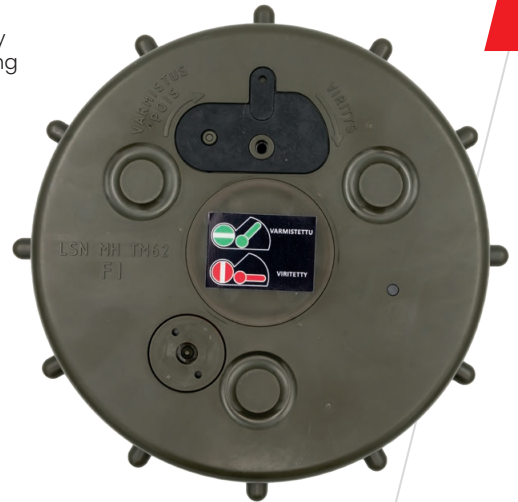
ATMF OPERATION

ATMF is screwed into the central threaded fuze well of TM-62/TM-72 series anti-tank mine when the mine is laid.

The arming process entails unlocking the arming lever lock and subsequently positioning the arming lever into the designated arming position, thus opening the explosive train. Firing capacitors remain discharged until end of arming delay and the detonator is short-circuited until immediately before firing.

The top side of the ATMF informs the operator regarding the fuze's status: whether it is deactivated, in arming delay, or in the last minute of the arming delay. Throughout the operational lifespan of the fuze, the LED is switched off.

The ATMF uses combined seismic, electromagnetic and force influence sensors to identify its target and determine the optimal moment for initiation. Upon initiation, a clearing charge clears the earth from above the fuze prior to the detonation of the EFP charge. The projectile formed by EFP charge penetrates the belly armour of the target vehicle and initiates TM-62/TM-72 mine body.



DEPROG

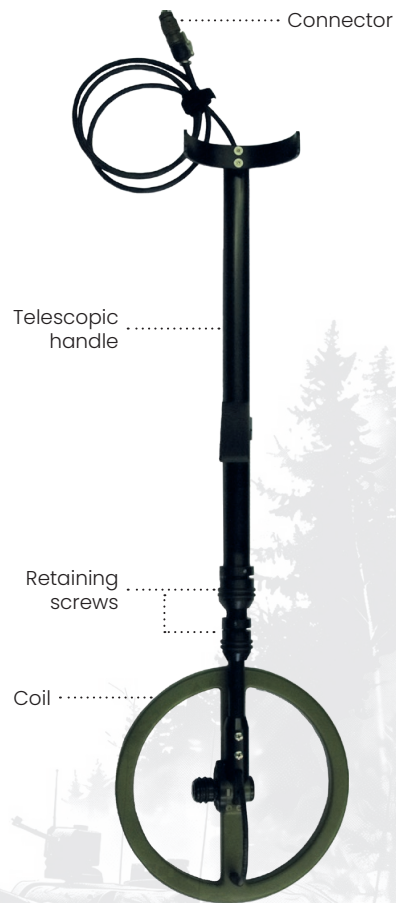
The DEPROG enables the user to program, deactivate and activate the ATMF from distances up to 0,5 m. The DEPROG is designed with utmost emphasis on safety and consists of the electronic controlling unit and the probe.

The probe facilitates communication with the ATMF: any command transmitted to the fuze requires acknowledgment from the fuze itself. This ensures confirmation to the device user that the ATMF has indeed accepted the command, a crucial aspect, particularly concerning deactivation commands.

The operational parameters for the ATMF, operating time and number of by-passings, may be entered into the DEPROG using its panel controls. A 16x2 character LED display at the front panel of DEPROG Control unit supports the user.

KEY FUNCTIONS

- Programming operational lifetime of the fuze
- Programming number of by-passings of target vehicles
- Quick change of fuze settings
- Search for camouflaged ATMF
- Requesting the status of the ATMF, including its operating time and activation status
- Activate/deactivate the ATMF



TECHNICAL INFORMATION

ATMF

Dimensions	Diameter 240 mm Height 122 mm (approx. 73 mm outside mine body)
Weight	2,7 kg
Penetration	> 75 mm steel
Arming delay	5-30 minutes, according to customer request, factory setting
Operational lifetime	Field programmable, up to 45 days in steps of 1 hour
By-pass setting	0-99 target vehicles, field programmable
Self-neutralization	120 days after first arming
Operating temperature	-46 ... +71°C
Waterproofness	Down to depth of 1 m
Battery	LS 26500
Housing	Polycarbonate
NSN ATMF	1345-58-000-9499

DEPROG

Battery	LS 14
NSN	1290-58-001-1523





Raikka Oy designs and produces explosive and pyrotechnic products with Nordic expertise, tailored to meet customers' requirements.

Our primary customers include governmental organizations, such as the armed forces and homeland security authorities, as well as other European defense industries. Founded in 1946 to support national defense and reconstruction, Raikka Oy has continuously expanded its expertise in explosives.

CERTIFIED
AQAP 2110



CERTIFIED
ISO 9001
ISO 14001



Espoo

HEADQUARTERS:

Nuottaniementie 9
FI-02230 Espoo, Finland

Tel +358 9 4777 950

Email helsinki@raikka.fi

Eurajoki

EXPLOSIVES WORKSHOP:

Sytyntie 1
FI-27150 Eurajoki, Finland

Tel +358 9 4777 950

Email info@raikka.fi

Eurajoki

MACHINE WORKSHOP:

Lapintie 2
FI-27100 Eurajoki, Finland

Tel +358 2 8684 800

Email eurajoki@raikka.fi