

BONUS

Target detection anti-tank shell

BONUS is a 155mm artillery shell designed for in-depth engagement of enemy main battle tanks. Its two top-attack competent warheads destroy all armoured vehicles of the modern battlefield.

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In many cases, artillery now outstrips other anti-tank systems such as missile-armed helicopters, as it proves to be formidably effective without being subjected to the same operating limits.

Only a few BONUS shells are required to engage the target.

As a result:

- BONUS contributes to the safety of the pieces of ordnance; in fact, as pieces remain for a shorter time on their firing position, they escape from the counterbattery fire,
- BONUS enables to significantly save means in terms of logistic chain.

The BONUS shell's distinctive feature is its unrivalled hit probability, which has been demonstrated during numerous production acceptance firings, together with French and Swedish Army's firings.

The performance of the two BONUS warheads, especially against moving targets, results from its perfect flight stability (fixed wings) and wind insensitivity, its scanning speed (descent and spin rate), its infallible detection (coupling of 3 multiband IR sensors and a laser radar) and instant firing (from the first scanning).

As a fully interoperable shell, BONUS can be fired by all current and future artillery systems conforming to the JB MoU standard, included 52 caliber, as well as by other systems with their respective propellant charges.

BONUS is used as per standard procedures for transport, handling, loading and firing, target location and fire control.

The BONUS programme is conducted in cooperation with BAE Systems Bofors and Nexter Munitions for the Swedish and French Armies.

The operational research has resulted in retaining the most efficient and cost-effective solutions (fixed wings, IR multiband detector, etc.).

■ SHELL

- Compliant with the international ballistic standard (JB MoU), NATO M864 standard, STANAG 4224
- Qualification: 39 cal., 45 cal., 52 cal.
- Shell fitted with a base-bleed unit
- Weight without fuze: 44.6kg
- Length without fuze: 898mm
- Two warheads per shell
- Priming: standard 2-inch threaded diameter electronically or mechanically timed, programmable nose fuze
- Effective range:
 - ▶ NATO 39-calibre artillery: 27km
 - ▶ NATO 52-calibre artillery: 35km
- Packaging: in 14-round logistic packaging

■ WARHEAD

- Weight: 6.5kg
- Diameter: 138mm
- Detector: 3 multiband IR sensors, laser radar
- Altitude at the start of the search phase: 175m
- Insensible to wind effect (no parachute)
- Descent rate: 45m/s
- Spin rate: 15 revolutions/s
- Scanning step: 1.7m
- Warhead: explosively formed projectile with tantalum liner
- Perforation: > 130mm of steel armour at long range
- Search area: 32,000m² per charge (64,000m² per shell)
- Self-destruct: two devices (impact and electronic delay)
- Sterilization: in less than 15 minutes after ground impact



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