

PGB-128

A standoff air-to-ground weapon system for today's combat aircraft

With innovation deeply rooted in the company's vision and commitment to contribute to meeting the challenges of the defence industry, we constantly push the boundaries of precision-guided weapon concepts. That is how our PGB-128 (Precision Gliding Bomb) standoff air-to-ground system came to be, with performances that match the mobility, lethality and survivability of today's air power. Thanks to its wing kit, its GPS/INS guidance unit and its modular payload/warhead, the PGB-128 has a higher accuracy when hitting ground targets, both fixed and mobile.

Tactical Use

Released from low-speed, medium-speed or high-speed aircraft, it is effective against various stationary targets, including shelters, houses, depots and fixed unarmoured stations. It can also engage time-critical moving targets, from boats to other unarmoured vehicles.

The Warhead Type

Due to its modular design, the PGB-128 can accommodate different warhead types, such as blast fragmentation, anti-armour or thermo-baric. The blast fragmentation warhead is especially effective—it has an advanced navigation system, and it can inflict a lesser collateral damage, with a confirmed lethal radius larger than 25 m.

The Advanced Guidance and Navigation System

The guidance and control system has an optional strapdown laser homing head (with its line of sight determined according to the missile body's axes), an inertial navigation system (which relies on the autopilot and MEMS sensors) and three independent actuators (used for carrying out commands regarding pitch, yaw and roll).

The Communication Link

The communication link can exchange data with the onboard and ground support equipment, i.e. the command station via radio-link. This can be a two-way data link and – if a TV or IR homing head is integrated – it can also transfer images from the bomb.

MAIN SPECIFICATIONS

- Ø Calibre: 128 mm
- ◆ Range: 25 km
- 📏 Takeoff mass: 30 kg
- ◆ Length: 1053 mm



A Bigger Payload

With a mass lower than 50 kg and a 128mm (5-inch calibre) round, this solution enables the particular platform to carry more weapons, and therefore engage more targets.



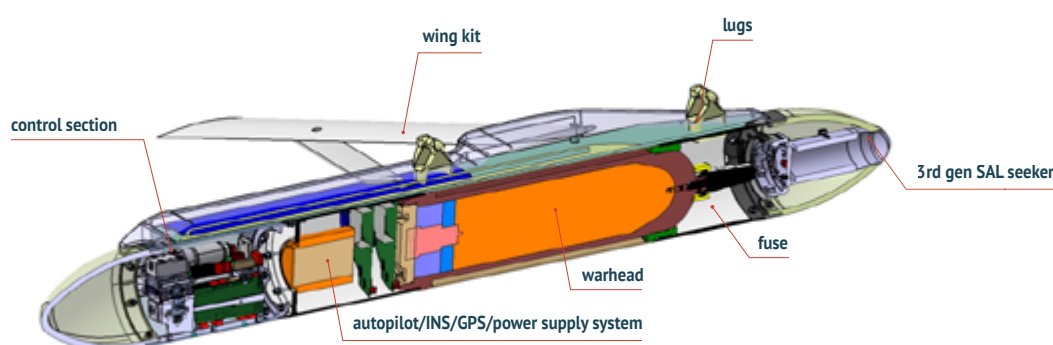


MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification

Technical Specification	Data	Unit
Calibre	128	mm
Takeoff mass	30	kg
Length	1053	mm
Wingspan	1488	mm
Warhead's mass	20	kg
Minimum operational range	5	km
Maximum operational range	50	km
Minimum release altitude	2000	m
Maximum release altitude	7620	m
Minimum release speed	≤ 60	m/s
Maximum release speed	200	m/s
Maximum vertical dive speed	206.9	m/s
Optimal angle of attack for max. lift-to-drag ratio	8	°

GUIDED BOMB COMPONENTS



BENEFITS

- » ability to carry more bombs (within a 20 kg capacity);
- » a gliding platform with aerodynamic design, integrated as per MIL-STD-8591 standard;
- » a GPS/INS system with an optional SAL/IIR seeker;
- » use of pop-up, level toss and dive toss tactics;
- » an advanced data link with exchange capabilities.

