

GOING SMART.
GOING
ACCURATE.



EDePro
Engine Development & Production

GB-250

Converting unguided bombs into smart munition

The modern battlefield requires more precision, more efficiency, and more intelligence than ever before. But, the smart munition that can provide this is not necessarily costly. At EDePro, we have the know-how in enhancing existing solutions, and the GB-250 glide bomb kit resulted from such enhancements. As an advanced guidance system, it converts the original Mk-82 bomb into precision-guided munition, considerably reducing costs and increasing the mission's success rate.

Tactical Use

Also known as a smart bomb, the GB-250 is a guided air-to-surface weapon designed to destroy static and armoured ground targets via relatively small and precise strike. Concerning targets of opportunity, it has an increased lethality with a considerably reduced collateral damage and aircrew loss.

The Mechanical Design Interface

The design solutions enable a timely and complete wing deployment after launch, in less than five seconds, with simple kinematics that ensure a high reliability. The power supply is separate from the aircraft. While the tail assembly is easily attached to the bomb, with no interventions, the mechanical locking of the fins and wings ensures an effective detachment from the power supply.

The Autonomous Gliding

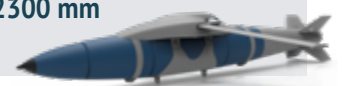
Once the bomb is released from the aircraft, its fully autonomous gliding to the target is enabled through the INS and the GPS, both of which are integrated with a stabiliser with 4 moving fins.

Enviromental & Operational Conditions

The full compliance of subsystems with the following MIL-STD-810F standard's test methods: 501.4 (High TEMP), 502.4 (Low TEMP), 503.4 (TEMP Shock), 507.4 (Humidity), 513.5 (Acceleration), 514.5 (Vibrations).

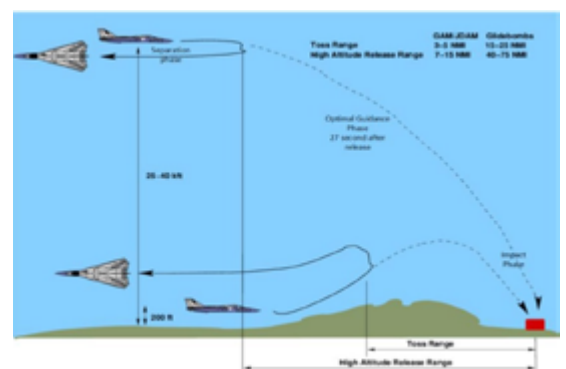
MAIN SPECIFICATIONS

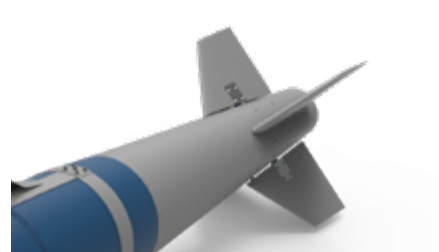
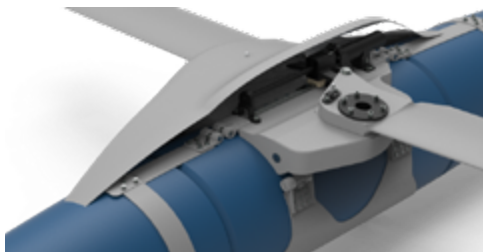
- Calibre: 250 mm
- Range: 70 km
- Takeoff mass: 280 kg
- Length: 2300 mm



The Extended Range

The GB-250 kit is vastly exceeding the range of classic Mk-82, including both toss range and high-altitude release range. The solution has multiplied glide range to maximum of 70 km, improving precision and accuracy.



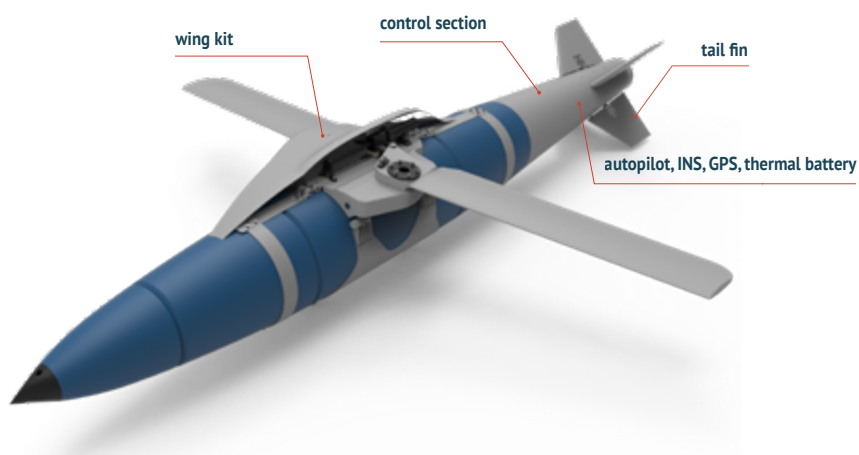


MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification

	Data	Unit
Calibre	250	mm
Max. takeoff mass	280	kg
Length	2300	mm
Wingspan	1750	mm
Wing's sweep angle	14	°
Takeoff speed	600-1000	km/h
Height of release	4-11	km
Dihedral angle	8	°
Angle of incidence	3	°
Maximum G load	2.5	g
Temperature range	-55 / +70	°C

GUIDED BOMB COMPONENTS



BENEFITS

- » low-cost wing kit, designed to fit the Mk-82's body;
- » fully autonomous gliding to the designated target;
- » futionomous flight via INS, GPS and stabiliser;
- » mechanically and electrically integrated with the aircraft as per MIL-STD-8591 and MIL-STD-1760;
- » stabiliser with electronic equipment as per MIL-STD.

