

# **Ground-Launched Small Diameter Bomb**

# Affordable Long Range Precision Fires Solution

The Ground-Launched Small Diameter Bomb (GLSDB) will provide the warfighter with a long-range, precision fires weapon capable of conducting reverse slope engagements and defeating targets ranging from hardened facilities to soft-skinned assets. With a 360-degreee target engagement ability, GLSDB provides commanders and planners with a highly flexible weapon which complements existing ballistic trajectory weapons.

GLSDB builds upon Boeing's highly successful Small Diameter Bomb Increment I (SDB I) and existing Multiple Launch Rocket System rockets. The SDB I is a 250-pound class weapon with an Advanced Anti-Jam Global Positioning System aided Inertial Navigation System, combined with a multipurpose penetrating blast-and-fragmentation warhead and a programmable electronic fuze.

More than 10,000 SDBs have been built at Boeing's award-winning, modern production facility in St. Charles, Missouri. Since the first SDB delivery in April 2005, every single weapon has been delivered on time and at cost.

# Ground Launched SDB will provide the warfighter:

- Increased range
- Highly accurate
- All angle, all aspect attack even targets behind the launch point
- Multiple rocket, multiple target, near simultaneous impact
- All weather, 24/7 availability
- Terrain avoidance, such as mountains
- Cave breaching capability
- Launches from hidden or protected positions to avoid detection
- Programmable fuze provides impact and delay fuzing for deep penetration or proximity height-of-burst
- SDB Focused Lethality Munition (FLM) variant is also an option for low collateral damage Laser SDB variant provides moving target capability

## **General Characteristics-GBU-39A/B**

#### **Key Performance Factors**

- Standoff distance greater than 40 nautical miles
- Close Air Support (CAS)
- Increased load-out for more targets per sortie
- Designed for minimal collateral damage

#### **Dimensions**

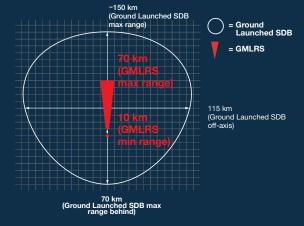
- Size: 71 in. (L) x 7.75 in. (H) x 7.5 in. (W)
- Weight: 285 lbs.
- Wingspan: 63.3 in. (open), 7.5 in. (stowed)

#### Airframe

- Warhead: Penetrating blast fragmentation
- Weight: 205 lbs. 4340 steel cylindrical case with conical-shaped nose
- Explosive Fill: 36 lbs. Insensitive Munition Certified
- Fuse: Integrated Electronic Safe/Arm Fuse System (ESAF) Impact and Delayed
- Settings with Height of Burst Sensor

### **Guidance Set:**

- Inertial Navigation System (INS)/Global Positioning System (GPS)
- Anti-jam and Selective Availability Anti-Spoofing Module (SAASM)
- Advanced Core Processor Two (ACP 2) Module







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