

Elbit Systems Land Guided Mortar Munitions Portfolio



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Elbit Systems has earned an outstanding global reputation for innovation, reliability and excellence in mortar systems. Elbit Systems Land offers a comprehensive mortar munitions portfolio that provides pinpoint accuracy and reliable performance.

High-precision advanced weapon solutions for the modern battlefield

Operational needs of the modern battlespace require precision strike capability to support maneuvering tactical combat units with an independent and fast-fire network for immediate response. Elbit Systems Land's guided mortar munitions (GMM) address the need for high-precision and cost-effective advanced mortar munitions. Elbit Systems Land GMM also complies with the demand for high lethality and effectiveness together with low collateral damage - with first round accurate fire capabilities.

Unique operational capabilities

The GMM are equipped with a multi-mode fuze (Point Detonation, Point Detonation Delay, Height of Burst), blast and fragmentation warheads, and some also include penetration warheads. These advanced operational capabilities significantly enhance fire power at the battalion and brigade level. The introduction of these new capabilities enables accurate firing to extended ranges with near vertical trajectory at line-of-sight (LOS) and non-line-of-sight (NLOS) targets, in urban or open terrain, and in all weather conditions.

Reduced operational risk and logistic burden

Elbit Systems Land's precision GMM enable high hit probability with enhanced survivability. The mortars deliver first round hit on target, with no ranging or meteorological data required. With enhanced precision and autonomous fire capabilities including multi-target engagement, the combat-proven guided mortar munitions require less manpower and fewer rounds of ammunition, minimizing the operational risk as well as precluding the need for a complex and vulnerable logistic tail.

Production capabilities and sophisticated facilities

Elbit Systems' production facilities feature advanced manufacturing infrastructure and highly skilled staff, enabling an annual production capacity of hundreds of thousands bombs of all calibers. Capabilities cover all aspects of manufacturing, assembly, packing, quality assurance and control, metallurgic, inspections ballistics and full in-house live firing testing.

Guided Mortar Munitions Series



› Stilet - Guided Mortar Munition (GMM) High-precision 120mm guided mortar munition

Ideal for tactical combat units, Special Forces and other units, the Stilet 120mm guided mortar is a cost-effective, easy to operate solution for high quality mortar targets. The Stilet GMM features autonomous fire control and multi-target assault with single positioning, effective against infantry and light armored vehicles at a range of 1 - 8.5km (depending on the mortar system). No ranging is required, to each first round hit on target. The mortar bomb features a multi-mode fuze with Point Detonation (PD), Point Detonation Delay (PDD) and proximity sensor (PRX) operating modes, and a 5-charges propulsion system. The Stilet is equipped with a blast and fragmentation warhead, delivering high lethality and precision with minimal collateral damage.

Weight	14kg
Range	1 - 8.5km (depending on the mortar system)
Guidance	GPS/INS
Explosive weight (Comp. B)	~2.2 kg
Accuracy	CEP 50% < 10 m
Length	907 cm
Warhead	Blast and fragmentation
Propellant charges (C19)	Up to 5 charges
MIL-STD compliance	
Mission load time	~15 sec
No meteorological data is required	





➤ “Rapier” - Long-Range Guided Mortar Munition

High-precision Long-Range GMM

The Rapier GMM offers an extended range of up to 16 km and high accuracy even in severe weather conditions. The mortar shell expands fire support options by eliminating the need for spotting targets and delivers superior targeting precision. The mortar bomb features a multi-mode fuze with Point Detonation (PD), Point Detonation Delay (PDD) and proximity sensor (PRX) operating modes. Mission loading time is 15 seconds, and no meteorological data is required.

Guidance	GPS/INS
Range	Up to 16km (depending on the mortar system)
Accuracy	CEP 50% < 10m
Warhead	Blast and fragmentation
Length	980mm
MIL-STD compliance	
Explosive weight	(Comp. B) ~2.2 kg
Propellant charges	(C19) Up to 6 charges
Mission load time	~15 sec
No meteorological data is required	



➤ Iron Sting - Laser and GPS-Guided Mortar Munition (GMM)

120mm precision-guided munition SAL/GPS/IMU

The Iron Sting Guided Mortar Munition offers a range of 1-12 km, depending on the mortar tube. Three modes of operation, GPS/IMU, SAL+GPS/IMU and SAL+IMU provide robust capabilities in all battlefield scenarios. Iron Sting features a seeker laser sensor capable of operating with standard pulse (NATO STANAG 3722) and an encoded CW laser diode (lightweight and low-cost, suitable for small drones and UAS). The warhead is capable of penetrating Double Reinforced Concrete (DRC) with a blast and fragmentation effect. The mortar bomb features a multi-mode fuze with Point Detonation (PD), Point Detonation Delay (PDD) and proximity sensor (PRX) operating modes. Mission loading time is 15 seconds, and no meteorological data is required.

Range	1-12km (depending on the mortar system)
Accuracy	CEP 50% : GPS < 10m ; SAL <1 m
Guidance	GPS/IMU+SAL
Seeker/Sensor	Stiff neck CMOS dual mode
Hit angle	50-75 deg
Warhead	10.8 kg (fragmentation/penetration)
Length	950mm
Mission load time	~15 sec.
No meteorological data is required	



Pinpoint Accuracy and Performance



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› Laser and GPS-Guided Mortar Kit (LGMK)

Convert standard ammunition to Guided Munition with an add-on kit

The Laser and GPS-Guided Mortar Kit (LGMK) converts existing 120mm standard mortar bombs into pinpoint accuracy guided ammunition, featuring moving target capability and wide field of view (FOV). The multi-purpose LGMK delivers maximum accuracy against soft or lightly armored targets and in an urban environment, providing first shot hit and minimum collateral damage. The kit is an ideal, affordable guided munitions solution for front-line infantry, providing rapid and efficient full sensor-to-shooter capability, enhanced firepower and unmatched weapon guidance from launch to hit. The solution is compatible with STANAG 3733 NATO laser designation.

Guidance	GPS/SAL/ combined GPS+SAL
Warhead	Standard (e.g., M933/M934)
Reduced logistics tail	
Minimal training required	
Minimum collateral damage	



Elbit Systems Land

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