

ATMOS

155mm truck-mounted Howitzer for increased mobility and enhanced firing capabilities



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Technical Specifications

Gun assembly		
Caliber		155mm / 52 cal
Breech type		Horizontal sliding
Recoil buffer type		Hydraulic – single cylinder
Recuperator		Hydro-pneumatic
Loading system		
Automatic		Hydraulically operated
Gun drive system		
Drive type		Hydraulic with manual backup
Traverse range		±25°
Elevation range		up to +70°
Positioning accuracy		1 mil
Electronics suite		
Laying		Automatic INS & GPS based
Communication to FDC		Data and voice
Navigation		INS & GPS with built-in maps
Muzzle Velocity Radar		Integrated on the ordnance
Platform		
Platform type		6x6 or 8x8 high mobility truck
Road speed		More than 80km/h
Off-road speed		Up to 30km/h
Operational parameters		
On-board ammunition		Minimum of 18 full projectiles
Deployment time		45 seconds with electronic suite
Disengagement time		60 seconds with electronic suite
Firing range (ERFB-BB)		More than 40km



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ATMOS Key Benefits

- Combat-proven and operational artillery systems
- Worldwide customers
- Off-the-shelf solution, adaptable per specific customer requirements (6x6 or 8X8)
- Flexible building blocks and open architecture design ready for future growth
- High rate of fire - 6 rounds per minute, Shoot and Scoot 6 rounds in less than 120 sec.
- Low lifecycle cost
- High level of protection, up to level 4 STANAG
- Everything on board and up to 36 rounds





SIGMA

SIGMA is a 155mm/52cal truck-mounted 10X10/8X8 with a fully automatic, remote-controlled, self-contained turret featuring auto-laying and auto-ammunition loading capabilities.

Operational advantages include:

- Continuous high rates of fire in different firing modes and combinations
- Excellent crew protection in all mission stages including while firing
- Capable of firing 360° – significantly shortening response times when switching between targets
- Superior tactical mobility across various terrains
- Enhanced combat endurance



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Elbit Systems' ATMOS is a 155mm/52 caliber truck-mounted Howitzer that offers the advantages of superior fire power, enhanced mobility and rapid response time. Highly adaptable, the modular ATMOS system is compatible with any 6x6 or 8x8 high-mobility tactical truck. ATMOS supplies fire support for all types of missions and seamlessly interfaces with customers' existing C⁴I systems.

Part of Elbit Systems' line of fully integrated, modular artillery solutions, ATMOS incorporates an embedded electronic suite, automatic laying system and automatic loading system. The advanced electronic suite effectively enables accurate navigation and autonomous operation, reduced crew size, increased fire power and high precision accuracy.

Flexible platform configurations

The ATMOS can be mounted on any adapted high mobility 6x6 or 8x8 truck chassis preferred by the customer. The protected cabin of the ATMOS is designed for a crew of 5-6 personnel including a driver, a commander and an additional 3-4 crew members, along with all personal equipment and small arms. The cabin is equipped with an air conditioning system that is capable of both heating and cooling. The concept behind the ATMOS can be applied for the modernization of legacy towed guns, incorporating advanced new technologies like INS, MVR, ballistic computers, C⁴I, hydraulics and electrical drives.

Superior firepower capabilities

The ATMOS achieves ranges exceeding 40km with ERFB-BB ammunition and suitable propelling charge. Designed specifically for rapid deployment and operation on difficult terrain, the ATMOS' shoot-and-scoot capabilities are supported by an integrated electronics suite incorporating an INS-based laying system, as well as an automatic loading system that reduces crew effort.

The ATMOS can fire all types of qualified 155mm ammunition, projectiles, and charges that are in use by NATO and other countries. On board containers store a minimum of 18 rounds, including projectiles, propellants and fuzes.

Battle-proven and fully operational

A fifth-generation gun, the ATMOS provides advanced fire support for a wide range of missions and is operational in artillery forces around the world.

