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105/155MM COURSE CORRECTION SYSTEM

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In the conventional artillery fire, the rounds deviate from the intended target as a result of the variation seen in the muzzle velocities. ATOM 105/155mm Course Correction System decreases the dispersion of the rounds and improves the effectiveness of the artillery fire by applying correction to the munitions' ballistic trajectory.

ATOM 105/155mm Course Correction System is composed of a multi-option fuze which has air brakes and fits in the same volume as those of conventional fuzes, a wireless transmitter integrated to the fire control system installed on the launching platform and a fuze setter which programmes the fuze according to the selected mode. Muzzle velocity is measured with the muzzle velocity radar of the artillery system. The exact time for deploying the air brakes which are integrated on the fuze is calculated according to the ammunition's muzzle velocity and transmitted to the ammunition through wireless communication. Finally, by deploying air brakes, the dispersion of rounds on the target is improved and the effectiveness of the ammunition is increased.

ATOM 105/155mm Course Correction System is a cost effective solution that enhances the effectiveness of existing artillery munitions in the inventory (M107, MOD274, K307). It is suitable to be used with FIRTINA. Additionally, it is possible to use the system with 105mm munitions that have the same fuze interface as those of 155mm munitions and 105/155mm artillery weapons (in addition to FIRTINA) which have a modern fire control system and muzzle velocity radar.

General Specifications of ATOM 105/155mm Course Correction System

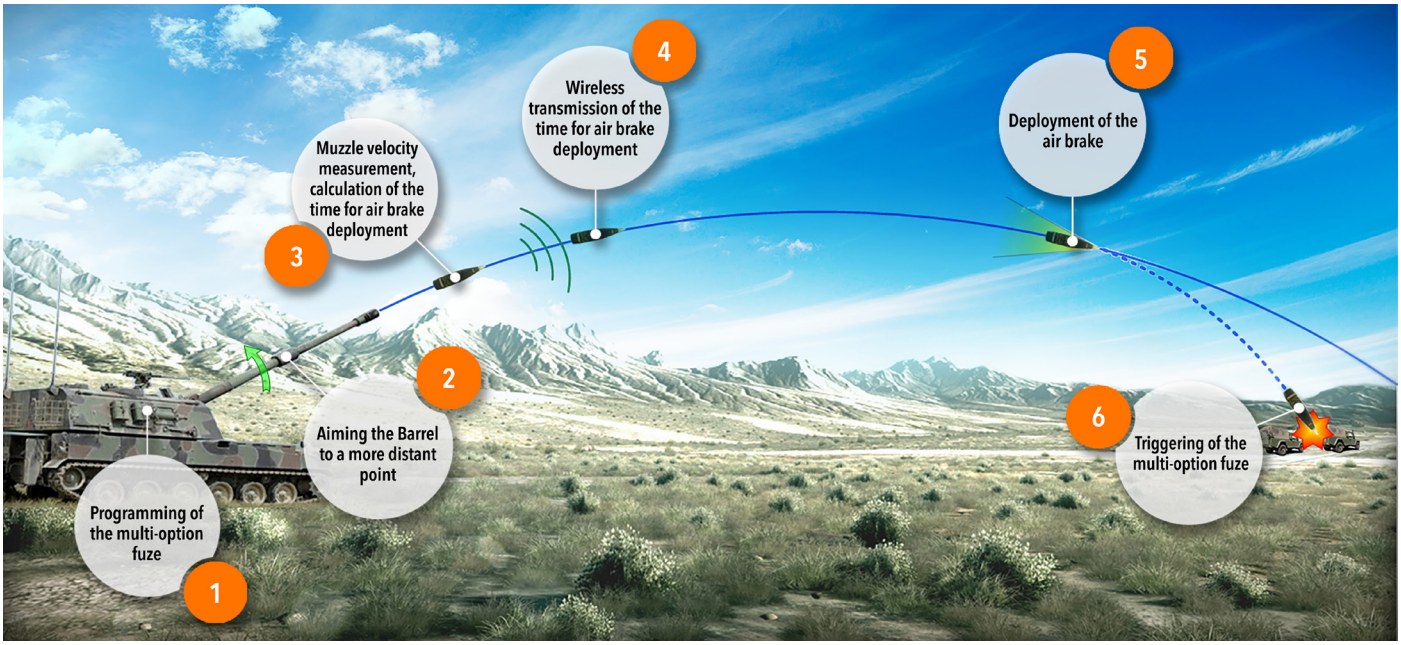
- Ballistic course correction with air brakes
- Muzzle velocity measurement based in-flight programming
- GPS-independent solution
- Wireless electromagnetic communications with the ammunition
- Multi-option fuze functions (impact, delayed impact, time programmable and proximity)

Advantages of ATOM 105/155mm Course Correction System

- High hit accuracy
- Surprise attack capability (high first hit probability)
- Minimum collateral damage
- Decreased logistics burden (fewer ammunition consumption)
- Cost effective (applicable to the munitions already in the inventory)

Technical Specifications (155mm weapon/ammunition are considered):

Caliber	155mm
CEP Value	<50m (independent of range)
Muzzle Safety	≥100m
Operating Temperature	-33°C / +63°C
Storage Temperature	-46°C / +71°C
Compatible Ammunitions	M107, MOD274, K307
Launching Platform	FIRTINA



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