

## 155MM BALLISTIC EXTENDED RANGE (BER) AND GUIDED LONG RANGE (GLR)



OTO VULCANO is a family of unguided (BER) and guided (GLR) ammunition for the 76mm, 127mm naval guns and 155mm land artillery systems.

The OTO VULCANO 155mm ammunition gives the 155/52 caliber and 155/39 caliber Howitzers the capability to extend their operative range and precision beyond the actual limits, minimizing engagement costs and collateral damages.

OTO VULCANO 155mm projectile is a sub-caliber, fin stabilized airframe, compatible with the use of standard modular charges, with no need of additional propulsion; it is loaded with Insensitive Explosive and Patented tungsten rings; the mechanical interfaces are the same as in standard 155mm ammunition.

OTO VULCANO 155mm available rounds are:

- › Ballistic Extended Range (BER) unguided multi-role ammunition with multi function (Altimetric, Impact, Delayed Impact, Time, Self-Destruction) programmable fuze
- › Guided Long Range (GLR) with canard control actuated by IMU + GPS guidance system for navigation (gliding trajectory) and possibility of terminal guidance (pull down) with optional Semi-Active-Laser (SAL)

A Mission Planning Module allows exchanging data with the Fire Direction Centre for the management of the Firing Mission.

## DESIGN OVERVIEW

- › Sub calibre airframe
- › Fin stabilised
- › IMU+GPS guidance system, gliding phase
- › Ballistic flight, no additional propulsion
- › Minimisation of engagement cost
- › Insensitive Munition (IM)
- › Possibility of Terminal Guidance (SAL)

## AMMUNITION CONFIGURATIONS

### Ballistic Extended Range (BER)

Unguided multipurpose ammunition:

- › Up to 50Km range
- › Multifunctional Fuze
  - › Altimetric
  - › Impact/Delayed impact
  - › Time
- › Notched HE warhead

### Guided Long Range (GLR)

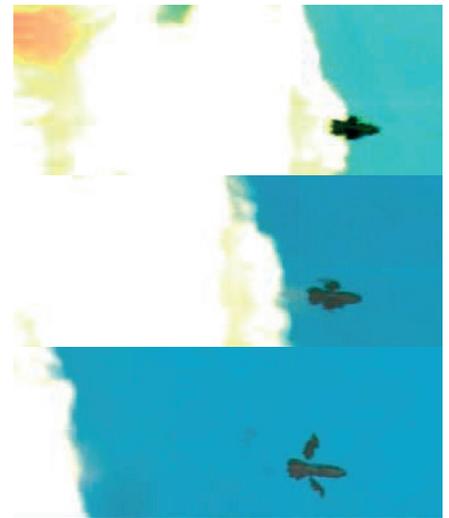
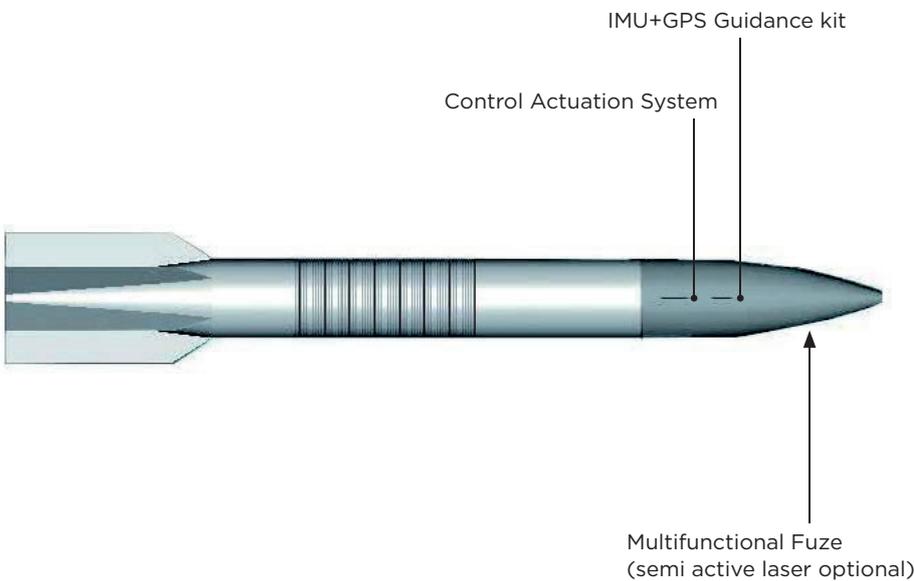
Guided ammunition for NFS:

- › Up to 80Km range
- › Autonomous IMU + GPS guidance
- › Precise bombardment firing
- › Notched HE warhead

### System integration

Vulcano ammo family is fully compatible with 155/52 ordnance (e.g. PzH2000) and automatic loading system.

- › Use of standard modules charges
- › Vulcano ammo can be fired by all 155/39 caliber guns



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