

THALES

Building a future we can all trust

Thales mortar systems are state-of-the-art combat proven solutions.

Thales rifled mortar technology offers the same terminal effect as 155mm artillery with three times the precision of smoothbore mortars, delivering more effective close fire support of troops in contact.

Our systems are compatible with rifled ammunition for tactical superiority over enemy forces and also smoothbore ammunition for training environments or when using legacy stockpiles.

All our products are NATO and STANAG compliant. Thales is building on our extensive experience and investing in the next generation of Mobile Mortar System.



Defenture designs, develops, produces and maintains unique light tactical vehicles. Defenture's vehicles provide the highest level of security and mobility to military, law enforcement and specialized units carrying out demanding missions in challenging environments around the world. The Defenture Modular Design Principles are characterized by innovative designs, reliable strong lightweight construction techniques and advanced modular solutions. Combined with craftsmanship, passion, flexibility and drive Defenture provides special customised solutions and is a reliable logistic partner for maintenance & service and knowledge partner for training.



Escribano Mechanical and Engineering (EM&E) was founded in 1987.

We have since provided both complete systems and parts in over 30 countries across the globe.

Some of the EM&E products:

- EMOC Mortar Carrier
- Complex software, FCS and simulators
- Many different models of Remote Weapon Stations, both land and naval
- Electro-optical systems
- Guidance kits for rockets, missiles, and mortar ammunition



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VIPER

Light 120 mm Mortar Carrier System



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DEFENTURE

EM&E
ESCRIBANO MECHANICAL & ENGINEERING

The **VIPER** combines the battle-proven 120 mm rifled mortar barrel from **Thales** with the combat-proven **Mobile Mortar System** from **EM&E** into a mobile, powerful and best in class mobile platform, the GRF from **DEFENTURE**.

Delivers a unique indirect fire support solution for combined armed forces and autonomous battery units.

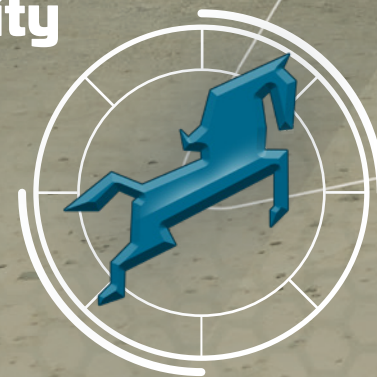
VIPER

Light 120mm Mortar Carrier System

Main Characteristics

- Unmatched fire power for tactical superiority
- Rapid, agile system deployment
- Crew protection
- Interoperability with NATO allies & standards, firing both rifled & smooth 120 mm ammunition
- Latest generation of Fire Control System
- World lightest 120 mm/81 mm automatic aiming mortar carrier system
- Firing range of up to 13km when using Thales rifled ammunition
- Modular ballistic protection
- Highest level of mobility
- Tactical situational awareness
- Combat Proven

Tactical mobility and agility for crew



Increased firepower

with rifled ammunition or future GNSS/laser-guided ammunition

Large on-board 120 mm ammunition storage capability (81 mm optional)



Defenture GRF

- Military of the shelf vehicle
- Fully air transportable by internal load and underslung
- Deep fording 860 mm
- 4-wheel steering system
- EMC proven (STANAG 4370, AECTP 500)
- Configuration freedom (modular)
- Modular ballistic protection



Mobile Mortar System: Fire Control System

Mobile Mortar System delivers control across all mission operations:

- Information about targets and points of interest,
- Introduction of targets with coordinates, by USB or directly on the map,
- Weather Conditions,
- Aiming and ballistic calculations,
- Automatic Deploy and Retract,
- Zonal Shooting

