



MORTAR SYSTEMS

TAKING RESPONSIBILITY IN A CHANGING WORLD

 **RHEINMETALL**
EXPAL MUNITIONS

LEADERS ON MORTAR SYSTEMS

Rheinmetall Exal Munitions (REM) is a worldwide leader in mortar systems, for platform and ammunition. Its products are supplied to the main Military Forces around the world becoming an excellent fire support in current scenarios.

This leadership has been possible due to REM internal developments which have been taking place in propelling charges and modification of mortar mass and aerodynamic characteristics, also seeking for lighter platforms. This combination increases the estimated scope in 10% for calibres of 60 and 81 mm.

REM continues with this leadership thanks to its recent improvements and developments on mortar ammunitions, increasing the robustness and performance in all its technologies as per example illuminating visible and illuminating infrared or smoke RP. All of them complete its wide offer in: HE, illuminant, smoke and practice. These products count with excellent performance due to its precision and high range.

Our vertical integration allows us to manufacture all main components, ensuring the highest quality standards and flexibility as well as very competitive lead time and service levels.



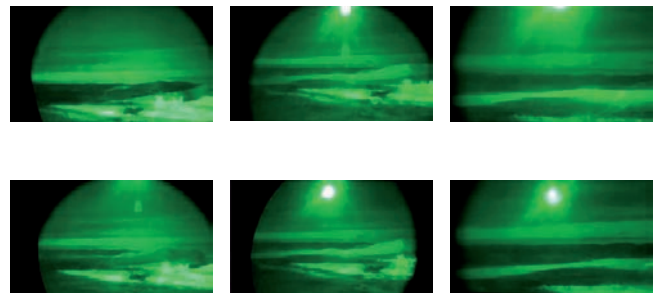
Mortar ammunition: Complete family for indirect fire support

The mortar systems of REM are a reference in the NATO environment and are currently in service in more than 25 countries around the world. Leading European designer and manufacturer of smoothbore mortar, REM offers a modern, reliable and quality product, combat proven in all versions commando, 60 mm, 81 mm and 120 mm. Being the Lightness, Simplicity, Reliability, Accuracy, Ergonomics and easy and efficient maintenance the main principles of its design.

All these models can be provided in different configurations according to customer requirements. In addition, REM manufactures the pressure mortar versions for ballistic measurements.

Besides, REM offers a wide range of additional solutions that complement and extend the operational possibilities that make life easier for users.

REM has also fire information control systems for mortars, totally integrated from the sensor to the weapon, that automates and accelerates all the tasks related to the direct or indirect fire, in a single gun or in a unit, increasing precision and control over supporting fire processes.



Infrared spectrum: Mortar bomb 60 mm Illum IR

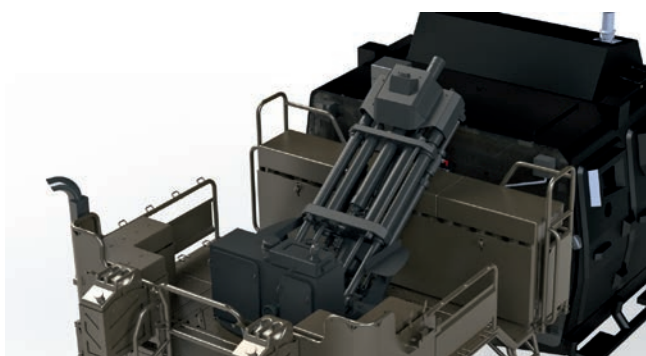
MAIN FEATURES						
Mortar calibre	Tube length	System mode	Weight	Maximum charge	Maximum range	
60 mm	0.65 m	commando	5.6 kg	cartridge + 2 increments	1,970 m	
	0.80 m	commando	7 kg	cartridge + 3 increments	3,020 m	
	0.80 m	bipod	17 kg	cartridge + 4 increments	3,760 m	
	1.00 m	bipod	25 kg	cartridge + 5 increments	4,900 m	
81 mm	1.15 m	bipod	39.5 kg	cartridge + 6 increments	6,200 m	
	1.45 m	bipod	46 kg	cartridge + 6 increments	6,900 m	
120 mm	1.60 m	bipod	150 kg	cartridge + 7 increments	8,000 m	
	1.80 m	bipod	175 kg	cartridge + 7 increments	8,250 m	

Note: 0.8 m tube length is provided as 60 mm COMMANDO COMBI with two modes of operation included.

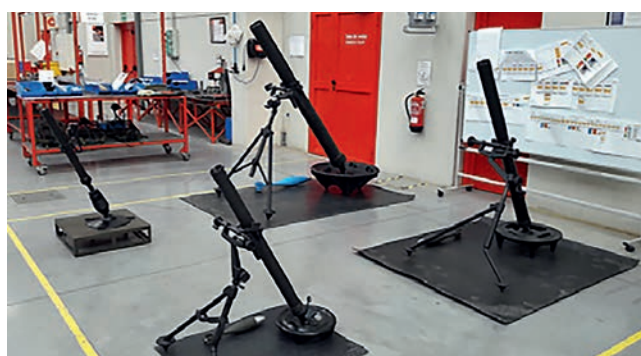
Note: 120 mm is supplied with LTT (Light Tactical Transport)

MORTAR MAINTENANCE

- Proved experience supporting mortars worldwide
- Highly skilled technician teams to support mortar systems
- Through life support management
- Tailor made maintenance & support services, on-site and off-site
- Customized training, covering operation and multi-echelon maintenance needs
- Technical documentation adapted to customer needs (Operation, troubleshooting, maintenance, illustrated parts catalogue...)



EIMOS, integrated mortar system



Leading European designer and manufacturer of smoothbore mortars



120mm mortar



120 mm mortar: Tactic transport solutions



Commando combi mortar

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