

CONFIGURATION – MORTAR CARRIER SYSTEM

	81 mm	120 mm
Power supply	24 VDC	24 VDC
Weight	300 kg	500 kg
Elevation range	800 Mils – 1,511 Mils	800 Mils – 1,511 Mils
Elevation accuracy	0.5 Mil*	0.5 Mil*
Azimuth range	–900 Mils – +900 Mils	–1.067 Mils – +1.067 Mils
Azimuth accuracy	0.5 Mil*	0.5 Mil*

*Employed by the INS

ELECTRONIC FIRE CONTROL SYSTEM

- Ballistic calculator for any type of ammunition
- Aiming time: <5 s
- Re-aiming: <2 s
- Target change: aiming time 5 s
- Inertial navigation and aiming system: capable of operating in GNSS denied environments
- MRSI capability

MORTAR BARREL

EM&E Group manufactures smoothbore mortars in 81 mm and 120 mm calibers featuring the following characteristics:

	81 mm	120 mm
Barrel length	1.6 – 1.8 m	1.6 – 1.8 m
Maximum range (with EM&E Group ammunition)	7,500 m	8,750 m

Additionally, EMOC can integrate any in-service mortar, requiring only the base plate flange and ball joint to be adapted.

AUTOMATIC DEPLOYMENT/STOWING

	81 mm	120 mm
Deployment time	<15 s	<20 s
Stow time	<15 s	<20 s
Shoot & Scoot time (3 rounds)	<45 s	<60 s

VEHICLE REQUIREMENTS

	81 mm	120 mm
Payload capacity	400 kg	>1 Ton



EMOC

EMOC is the lightest **120 mm and 81 mm** mortar carrier system on the market, combining high mobility with a high firepower capacity.

EM&E Group’s technical expertise has enabled the design of the EMOC to provide indirect fire from highly mobile light vehicles through an **open architecture**. Furthermore, this system represents a qualitative leap in tactical mobility, protection, and speed of deployment, facilitating **shoot-and-scoot** tactics and reducing exposure time to counter-battery threats.



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EMOC

MORTAR CARRIER SYSTEM

Security of the **Future**

EMOC 120 mm

The main technical characteristics of the 120 mm EMOC mortar carrier system are as follows:

Caliber: 120 mm

Weight: 500 kg

Ammunition capacity: 20 – 64 rounds

Aiming: automatic

Navigation/aiming: inertial system

Deployment/stow time: <20 s

*Allows for manual deployment, retraction, and aiming.

EMOC 81 mm

The main technical characteristics of the 81 mm EMOC mortar system are as follows:

Caliber: 81 mm

Weight: 300 kg

Ammunition capacity: 24 rounds

Aiming: automatic

Navigation/aiming: inertial system

Deployment/stow time: <15 s

*Allows for manual deployment, retraction, and aiming.

CAPABILITIES EMOC

The EMOC system incorporates advanced solutions to enhance accuracy, operational safety, and responsiveness in complex environments.

- **Accuracy:** Maximum precision on any terrain thanks to its inertial navigation system (INS) integrated into the barrel.
- **Adaptability:** Capable of being mounted on a wide range of 4x4 vehicles without compromising stability or payload.
- **Interoperability:** Compatible with various fire control systems and software, ensuring a CEP of 10 m for ballistic calculations.
- **Speed:** Allows the 120 mm mortar to be deployed and stowed in less than 20 seconds, and the 81 mm mortar in less than 15 seconds.

