# **Mortar Systems**

## INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



## MISSION

To enhance mission effectiveness of the maneuver unit commander by providing organic indirect fire support.

## DESCRIPTION

The Army uses three variants of 120mm mortar systems. All are smooth-bore, muzzle-loaded weapons in mounted or dismounted configurations. The M120 120mm Towed Mortar System mounts on the M1101 trailer and is emplaced and displaced using the M326 "quick stow" system. The mounted variants are the M121 120mm mortar, used on the M1064A3 Mortar Carrier (M113 variant), and the 120mm Recoiling Mortar System, used on the M1129 Stryker Mortar Carrier.

Lightweight variants of the M252 81mm Mortar System and M224 60mm Mortar System have been qualified and are in production. Both systems provide high-rate-of-fire capability and are man-portable. On the M224 mortar, cartridges can be drop-fired using the standard M7 baseplate or handheld and trigger-fired using a smaller assault M8 baseplate.

The M95/M96 Mortar Fire Control System–Mounted (MFCS–M), used on the M1064A3 and M1129, and the M150/M151 Mortar Fire Control System–Dismounted (MFCS–D), used with the M120, combine a fire control computer with an inertial navigation and pointing system, allowing crews to fire in under a minute, greatly improving mortar lethality.

The M32 Lightweight Handheld Mortar Ballistic Computer (LHMBC) has a tactical modem and embedded global positioning system, allowing mortar crews to send and receive digital callfor-fire messages, calculate ballistic solutions, and navigate.

## SYSTEM INTERDEPENDENCIES

M95/M96 MFCS–M and M150/M151 MFCS–D: Army Field Artillery Tactical Data System

## PROGRAM STATUS

- 1QFY09–1QFY10: MFCS fielded to two heavy Brigade Combat Teams (BCTs) and nine HBCTs reset
- 1QFY09–1QFY10: LHMBC fielded to seven Infantry BCTs, four Special Forces groups, and 16 IBCTs reset
- 1QFY09–1QFY10: Mortar weapons fielded to numerous IBCT, HBCT, SBCT and Special Forces groups
- 3QFY09: Full materiel release MCFS-D

## PROJECTED ACTIVITIES

- **4QFY09:** Full materiel release of M326 "quick stow" system
- 1QFY09–1QFY10: Continue production and fielding of 60mm, 81mm, and 120mm mortar systems
- 2QFY09–1QFY10: Production and initial fielding of M150/M151 MFCS–D
- 2QFY09-4QFY11: Complete initial fielding of MFCS-M
- 1QFY10: Initiate fielding of M326
- **2QFY12:** Complete production and fielding of M32 LHMBC

**ACQUISITION PHASE** 

echnology Development

Engineering & Manufacturing Development

**Production & Deployment** 

**Operations & Support** 

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## Mortar Fire Control System (MFCS-Mounted)



Motar Fire Control System (MFCS-Dismounted)













## **Mounted Weapon System Production**





M1064A3 Motar Carrier



## Mortar Systems

## **FOREIGN MILITARY SALES**

Afghanistan, Australia

## CONTRACTORS

60mm and 81mm Mortar Bipod Production:

MaTech (Salisbury, MD)

60mm and 81mm Baseplate Production:

AMT (Fairfield, NJ)

MFCS-D and MFCS-M production, fielding, and installation:

Elbit Systems of America (Ft. Worth, TX)

M32 LHMBC (R-PDA):

General Dynamics C4 Systems (Taunton, MA)

120mm, 81mm, and 60mm cannons, 120mm baseplates:

Watervliet Arsenal (Watervliet, NY)



