



MACS

M231/M232A1 MODULAR ARTILLERY CHARGE SYSTEM



SPECIFICATIONS

Modular Artillery Charge System	Consists of the M231 and M232A1 propelling charges and is compatible with M198 and M777 lightweight towed howitzers
Performance	A "build a charge" concept that eliminates the need to dispose of unused cartridges
Production capabilities	General Dynamics Ordnance and Tactical Systems has existing certified production facilities
Logistics	Provides increased operational flexibility and reduced support costs

General Dynamics Ordnance and Tactical Systems is the manufacturer of the M231 and M232A1 Modular Artillery Charge System for the U.S. Army and Marines Corps. General Dynamics produces the M231 and M232A1 MACS under contract to the U.S. Army Joint Munitions and Lethality Contracting Center.

The M231/M232A1 MACS was developed as the propelling charge system for use in all currently-fielded 155mm howitzer systems. It uses a "build-a-charge," incremental-based system, which consists of two configurations of modular charges: the M231, which is used either singularly (Zone 1) or in pairs (Zone 2); and the M232A1, which is used in combinations of from three to five charges to provide Zones 3, 4 and 5.

MACS leaves no residue in the cannon breech and eliminates the need to cut and/or retie bag charges. The system further eliminates safety problems associated with destroying unused propellant. MACS rigid structure, symmetrical shape and low weight support maximum flexibility in tactical logistics.

Production work is performed at General Dynamics Ordnance and Tactical Systems' facility in Camden, Arkansas, with program support taking place at the company's Burlington, Vermont, facility.

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