

HUMVEE®



2-CT™ HAWKEYE MHS

[Mobile Howitzer System]

U.S. MILITARY DESIGNATION: HMMWV HAWKEYE

Our Mobile Howitzer System - a 105mm Howitzer mounted on a HUMVEE 2-CT™ (2-door cargo truck) - is the lightest weight, most highly maneuverable self-propelled howitzer in the world. The system consists of two trucks and no trailers, resulting in mobility to match vehicle capability.

With the application of a digital fire control system and on-board communication, the need for surveyed

firing points, aiming circles, and wire lines is eliminated. The 2-CT™ Hawkeye is able to shoot a two-round mission and vacate the area in 3 minutes (1 ½ minutes to first round fired).

The accompanying support vehicle utilizes a HUMVEE 2-CT™ and provides a high level of crush protection and safety restraints for up to four soldiers who assist artillery units.

DIRECT & INDIRECT FIRE MODE ■ ENHANCED SAFETY
TACTICAL MANEUVERABILITY ■ LOW LIFE-CYCLE COST

 **AM General®**

2-CT™ HAWKEYE MHS

(Mobile Howitzer System)



SPECIFICATIONS

Weapon System	Hawkeye Howitzer, Light, Modular, M20 Cannon
Caliber	105mm (4.13 in)
Length	134.75 in. (3.42 m)
Width	38.68 in. (.98 m)
Height	45.57 in. (1.16 m)
M20 Cannon w/Breech	1145 lb.
Cradle/Recoil Mechanism	605 lb.
Total Tipping Parts	1750 lb.
Top Carriage Group	720 lb.
Total w/o Fire Control	2470 lb.
M187A1 Telescope Mount	45 lb.
M137A2 Panoramic Telescope	24 lb.
MG9000 Digital Fire Control System	13 lb.
Total w/Optical Fire Control	2539 lb.
Total w/MG9000 Digital Fire Control	2550 lb.
Crew Requirements	4 personnel (Extreme Conditions: 2 personnel)
Cannon	105mm, M20
Projectile travel	110 in.
Caliber	33
No. of grooves	36

Muzzle brake	None (Optional Diffuser if Requested – 80 lb. Additional)
Breech block	Vertical Sliding Block
Recoil Mechanism	Hydro-pneumatic, soft recoil
Carriage	Aluminum Alloy
Traverse limits	180 degrees (3200 mils) – Possible 360 if Required
Elevating limits	-5 to +72 degrees (-89 to 1173 mils)
Temperature Range	
Lower Limit	-40°F (-40°C)
Upper Limit	+125°F (+52°C)

FIRE CONTROL - OPTICAL

Panoramic Telescope – M137A2 – Seiler Instruments
Telescope Mount – M187A1 – Seiler Instruments

FIRE CONTROL - DIGITAL (MG 9000) - DIGITAL POINTING AND AIMING SYSTEM

Inertial Navigation System (INS) – Model LN-270 - Northrop Grumman
Muzzle Velocity Radar System (MVRS) – Model MVR-700C – Weibel Scientific
Direct Fire Camera System – Model DFS-02 - Sekai Electronics, Inc.
GPS Antenna – Model S67-1575-76 - Sensor Systems Inc.
Gunner's Display Unit (GDU) – Model DK10 – Mandus – American Reliance, Inc. (AMREL)

EQUIVALENT FULL CHARGE (EFC)

6,500 rounds

M20 105MM AMMUNITION COMPATIBILITY

M1	High Explosive Round
M314	Illumination Round
M60/M60A2	Smoke Cartridge
M913	RAP Round
M760	High Explosive Round
M1130A1	High Explosive Performed Fragmented Round All NATO standard cartridges and fuzes

M20 CANNON SPECIFICATIONS RATE OF FIRE

Maximum: 8 rounds per minute for 3 minutes
Sustained: 3 rounds per minute

MAXIMUM FIRING RANGE

Charge 7: 7.2 miles (11.6 Km)
RAP: 12.2 miles (19.5 Km)

DESIGNATED PRIME MOVER

HUMVEE CT-2™ (M1152A1w/B2)



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