



M109A7

Self-Propelled Howitzer

The new M109A7 Self-Propelled Howitzer and its associated M992A3 Carrier, Ammunition, Tracked (CAT) vehicle enhance their combat-proven successors' – the M109A6 Paladin and M992A2 Field Artillery Ammunition Support Vehicle's (FAASV) – reliability, maintainability, performance, responsiveness, and lethality.

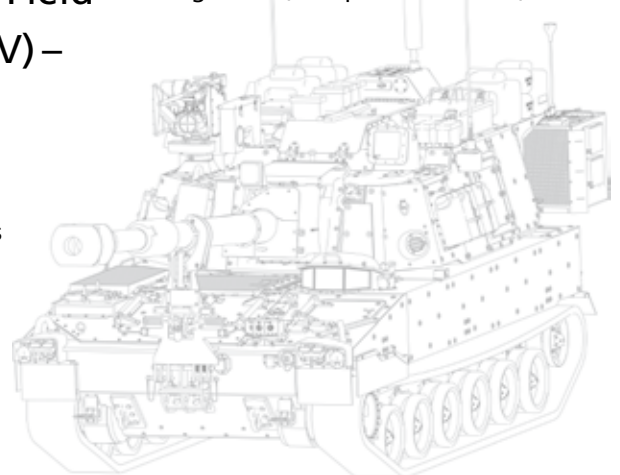
Additionally, they provide increased commonality with the Bradley Fighting Vehicle (BFV) of the Armored Brigade Combat Team (ABCT) with significant built-in growth potential in terms of available space, weight and electrical power.

Commonality – The M109A7 chassis features a power pack, drive train, track, and suspension components common with the BFV, improving supportability and reducing the ABCT's logistical footprint.

Responsiveness – The M109A7's "shoot and scoot" capability

protects the crew from counterbattery fire by means of an onboard position navigation system and fire control system capable of executing missions digitally and via secure voice command. With an upgraded, 675 HP electronically controlled version of the BFV standard V903 engine, coupled with an improved HMPT-800 transmission, the M109A7 has faster acceleration for rapid displacement, and the ability to keep pace with the maneuver forces it supports.

From the move, the M109A7 can receive a fire mission, compute firing data, select and occupy a firing position, transition from traveling configuration to firing configuration, and point its cannon, and fire



within 60 seconds – all with first round fire-for-effect accuracy. The M109A7 operates day or night, in all weather conditions, providing timely and accurate fires with a range in excess of 30km.

Survivability – The M109A7 offers increased survivability, because the crew remains inside the vehicle throughout the mission. Along with the “shoot and scoot” capability, the M109A7 features an Automatic Fire Extinguishing System (AFES), CROWS, and enhanced applique armor.

Operational Availability – Hull, turret, suspension, and automotive system upgrades increase system reliability. The M109A7 incorporates an onboard computer with comprehensive diagnostics programs that rapidly pinpoint equipment issues early for ease of maintenance while improving system availability.



Specifications

Gross vehicle weight	80,000 lbs/36,288 kg
Crew	4
Engine	675 hp
Fuel tank	143 gallons/541 liters
Speed	38 mph/61 km/h
Estimated cruising range	186 miles/300 km
Slope	60%
Side slope	40%
Trench crossing	72 inches/1.8 m
Maximum fording depth	42 inches/1.0 m
Overall length	382 inches/9.7 m
Width	154 inches/3.9 m
Height	129 inches/3.3 m
Howitzer/gun mount	M284 cannon/ M182A1 mount
Main generator	70Kw 600 vdc/28 vdc
Reserve power	>50%



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