

A large, olive-green self-propelled howitzer (M109A7) is shown in profile, facing left. It has a long, thick barrel with a muzzle brake. The vehicle is mounted on a tracked chassis with several road wheels. The background is a field of tall grass under a blue sky with light clouds. The image is overlaid with several semi-transparent colored rectangles: a light orange one at the top, a red one in the middle, and a darker orange one at the bottom.

Self-Propelled Howitzer

M109A7

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



The M109A7 and M992A3 provide increased commonality with the Bradley Fighting Vehicle (BFV) found in the Armored Brigade Combat Team (ABCT) with significant built-in growth potential in terms of available electrical power and weight carrying capacity.

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 facilitates avoidance of counter-battery 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, transition from traveling configuration to firing configuration, point its cannon, and fire within 60 seconds. The M109A7 operates day or night, in all weather conditions, providing timely and accurate fires with a range in excess of 30km.

Crew Survivability – The M109A7 offers increased crew survivability by

way of applique, mission tailorable armor package which complements the crew's operation under armor. Along with the "shoot and scoot" capability, the M109A7 features an Automatic Fire Extinguishing System (AFES), and can host Common Remotely Operated Weapons System (CROWS).

Operational Availability – Hull, turret, suspension, and automotive system upgrades increase system reliability translating to the weapon system spending more time on the battlefield and less time in maintenance. The M109A7 incorporates an onboard computer with comprehensive diagnostics programs that rapidly pinpoint equipment issues early for ease of maintenance while improving system availability.

M109A7 Specifications

Combat weight	84,000 lb (38,101 kg)
Crew	4
Engine	675 hp
Fuel tank	145 gallons/549 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/1.07 m
Overall length	382 inches/9.7 m
Width	155 inches/3.9 m
Height	129 inches/3.3 m
Howitzer/gun mount	M284/M284A2 cannon/M182A1 mount
Main generator	70Kw 600 VDC/28 VDC
Reserve electrical power	>50%

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