

Stryker Family of Vehicles (FoV)



In FY24, the Army conducted Stryker 30mm Medium Caliber Weapon System FOT&E and LFT&E at numerous military test sites. In November 2024, DOT&E published a combined FOT&E and LFT&E report with a classified annex, evaluating the Stryker 30mm variant's operational effectiveness, suitability, and survivability.

SYSTEM DESCRIPTION

The Stryker Family of Vehicles (FoV) has eight variants. This report is focused on the Stryker Medium Caliber Weapon System, referred to as the Stryker 30mm, which integrates the XM813 30mm cannon on to the infantry carrier vehicle Double-V Hull A1 chassis in an unmanned turret. The Stryker 30mm maintains comparable mobility characteristics with the Double-V Hull A1 FoV. It has a crew of two and carries up to nine dismounted soldiers.

The Stryker 30mm is fielded in infantry companies and scout platoons in the infantry battalions, is intended to increase the lethality of the formation, and improves the survivability for the soldier and system against conventional and asymmetric threats.

MISSION

Combatant commanders use Stryker brigade combat teams to conduct decisive action across the range of military operations by providing a significantly large, dismounted maneuver force capable of rapid tactical mobility. The Stryker FoV provides mobile and protected transport to the assigned crew/squad, enables formations with rapid movement to positions of tactical advantage, and provides lethal and destructive direct fire support against enemy forces, denying them freedom of movement on the battlefield. The primary role of the Stryker 30mm is

to provide protected transport for infantry squads and scout teams and provide direct fire support for the infantry squad during the dismounted assault.

PROGRAM

The Stryker 30mm is an Acquisition Category II-equivalent engineering change proposal to the existing Double-V Hull A1 fleet. The Milestone Decision Authority is the Program Executive Officer, Ground Combat Systems. DOT&E published a classified combined FOT&E and LFT&E report in November 2024 to support the Army's materiel release decision. The Army intends to produce 269 Stryker 30mm vehicles to field to three of the seven Stryker brigade combat teams.

» MAJOR CONTRACTORS

- General Dynamics Land Systems – Sterling Heights, Michigan
- Oshkosh Defense – Oshkosh, Wisconsin
- Rafael Advanced Defense Systems Ltd. – Haifa, Israel

TEST ADEQUACY

The Army conducted the Stryker 30mm FOT&E and LFT&E from 1QFY24 to 3QFY24 at numerous military test sites. All testing was in accordance with the DOT&E-approved test plans and observed by DOT&E. The testing was adequate to support an evaluation.

PERFORMANCE

» EFFECTIVENESS, SUITABILITY, AND SURVIVABILITY

DOT&E's assessment of Stryker 30mm operational effectiveness, suitability, and survivability can be found in the combined FOT&E and LFT&E report with classified annex, dated November 2024.

RECOMMENDATION

The Army should:

1. Address the recommendations in the combined FOT&E and LFT&E report with classified annex, dated November 2024.