



The Morrow Project



By David Little

Armored Security Vehicle 150 (ASV-150)

ASV features:

- GVW: 27,400 lbs. (C-130 transportable weight of 25,545 lbs.)
- Dimensions: L 246 in., W 101 in., H 102 in.
- Speed and Mobility: Comparable to HMMWV, 63 MPH
- Range: 400+ miles
- Payload: 3,560 lbs.
- CTIS: 4 settings and run flat
- Suspension: Fully independent coil springs
- Armament: 40mm MK 19, .50 caliber M2 Upgunned Weapons Station equipped with smoke grenade launcher system
- Turret: Day/Night Fire Control System effective to 2200 m
- Full spill liner
- Armor Protection: Meets desired baseline protection without add-on armor kit
- Fording: 60 inches
- Deployability: Roll-on/roll-off C-130 transportable
- Human Factors Engineering: Spacious human-engineered crew stations offering exceptional crew operability and comfort.
- Parts commonality: M939A2 engine; FMTV transmission, differentials, wheelends and CTIS; powertrain commonality: 64% of all parts are Government Standard DOD.
- The ASV 150 incorporates major improvements over the current LAV 150ST. Major product improvements include increased survivability, independent suspension, improved human factors and reduced overall height.

DISCUSSION

CREW: 3 (Driver, Commander & Gunner) + 2 Passengers
 CONFIGURATION: 4 x 4
 LENGTH: 6.40 m
 WIDTH: 2.54 m
 HEIGHT (TURRET): 2.53 m
 (HULL): 1.98 m
 WEIGHT (EMPTY): 11,818 kg
 (LOADED): 13,318 kg
 CARGO CAPACITY: 2000 kg
 MAX. TOWED WEIGHT: 2000 kg
 GROUND CLEARANCE (AXLES): 0.38 m
 (HULL): 0.53 m
 TURNING RADIUS: 10.00 m
 MAX. ROAD SPEED: 92.00 km/h
 MAX. CROSS-COUNTRY SPEED: 30.00 km/h
 MAX. WATER SPEED: 5.00 km/h
 FORDING DEPTH: Amphibious
 GRADIENT: 60%
 SIDE SLOPE: 30%
 VERTICAL OBSTACLE: 0.61 m
 TRENCH: 0.5 m
 ARMOUR CLASS: 100 all around
 ARMAMENT: M2HB .50 cal HMG, Main
 40 mm Mk 19 Mod. 3 Grenade Launcher, Co-Axial
 MAXIMUM RATE OF TURRET, POWER TRAVERSE (FAST): 45°/ second
 (SLOW): 10°/ second
 MAXIMUM RATE OF TURRET, MANUAL ELEVATION: 10°/ second
 MAIN & CO-AXIAL, GUN ELEVATION/ DEPRESSION: +45°/ -8°
 TURRET TRAVERSE: 360°
 AMMUNITION: 210/1050 .50 cal (Ready/Stored)
 100/500 40 mm
 4 Anti-Personal, 4 Smoke/ 12 AP, 12 Smoke
 SMOKE LAYING EQUIPMENT: 2 x 4 Tube M257 Smoke Launcher
 EQUIPMENT: See Attached Sheets
 NOTES:

- The vehicle has a 500,000 candlepower spotlight mounted co-axially with the main gun, that will illuminate up to 1.5 kms away.
- The turret is a 1 man turret.
- Winch (Max 9072 kg Tow Limit, 45 m x 12.7 mm Tow Cable).
- Vehicle is NBCW Proof and Amphibious.
- Tires are 14.50" x 21" Tubeless Tires, with Hutchinson Run Flat Insert, which are good for 50 Kms once flat.
- Fusion Engine can be removed and replaced in 1 hour, with proper tools and crane.

AMMUNITION:

M2HB HMG .50 cal

Short Burst = 10 rds, Medium = 20 rds, Long = 30 rds.

Mk 19 Mod 3 40 mm Grenade Launcher

[illegible]

H = High Explosive Dual Purpose W = White Phosphorus

Short Burst = 3 rds, Medium = 6 rds, Long = 9 rds

M257 66 mm Smoke/ Anti-Personnel Grenade Launchers

Left	Right
SA/AS	SA/AS
SA/AS	SA/AS
SA/AS	SA/AS
SA/AS	SA/AS

A = Anti-Personal S = Smoke

Fired in volleys of 4 or 8 at a time.

When firing mark off one side of the slash.

Armbrust 300

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