

BAE SYSTEMS

INSPIRED WORK



AAV7A1 RAM/RS

Assault Amphibious Vehicle

The vehicles can be equipped with armor protection, as well as configured for command and control, and repair capabilities. The personnel variant can transport 21 combat loaded troops, a crew of three and their cargo from ship to shore, negotiating ten-foot (3.1 meter) plunging surf, difficult beach conditions, and rough terrain ashore.

The unique boat-like hull design and powerful water jets make the AAV7A1 RAM/RS highly mobile in amphibious environments. A 525 hp turbocharged diesel

The AAV7A1 RAM/RS family of vehicles is the latest version of the assault amphibious vehicle operating with the U.S. Marine Corps and in numerous countries worldwide.

The family of vehicles includes the AAVP7A1 RAM/RS Personnel Carrier, the AAVC7A1 RAM/RS Command Variant, and the AAVR7A1 RAM/RS Recovery Vehicle.

BAE Systems has designed the AAV to be fully amphibious with all vehicle systems optimized for improved

corrosion resistance, maintainability and sea worthiness. Having earned the reputation as the finest Assault Amphibious Vehicle in the world, the AAV's rugged durability and superior mobility at sea and on land provides a significant edge in all expeditionary operating conditions.



engine enables excellent sea performance with a speed of 7 knots in the water and up to 45 mph (72 km/h) on land.

The cargo compartment is 13.5 feet (4.0 meters) long, 6.0 feet (1.8 meters) wide and 5.5 feet (1.6 meters) high; large enough to handle 10,000 lbs (4,536 kilos) of equipment including fuel drums, palletized supplies and supporting equipment.

The AAV firepower comes from an improved .50 cal/MK19 40mm weapon station.



Specifications

| | |
|------------------------|---|
| Crew | Three plus 21 combat troops |
| Engine | 525 hp |
| Armament | 50 cal (M2HB)/ 40mm MG (Mk19) |
| Cruising speed | |
| Land | 20–30 mph (32-48 km/h) maximum 45 mph (72 km/h) |
| Water | 8.2 mph (13 km/h) |
| Cruising range | |
| Land | 200+ miles (321 km) |
| Water | 7+ hours |
| Slope (longitudinal) | 60% |
| Side slope | 40% |
| Trench crossing | 8 feet (244 cm) |
| Vertical wall crossing | 3 feet (91 cm) |
| Surf | 10 feet (304 cm) |
| Overall length | 321 inches (815 cm) |
| Width | 144 inches (366 cm) with armor 129 inches (328 cm) without armor |
| Height | 130 inches (330 cm) |



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