

## Warrior

**T**HE Warrior Mechanised Combat Vehicle was a direct replacement for the FV432 Armoured Personnel Carrier in the 1980s, and there are 788 Warriors of different variants in service with the British Army.

The Warriors are split among the Army's nine armoured infantry battalions and comprise:

- 489 FV510 Infantry Section Vehicles (including 105 designated Milan ATGW platoon vehicles.)
- 84 FV511 Infantry Command Vehicles
- 105 FV512 Mechanised Combat Repair Vehicles
- 39 FV513 Mechanised Recovery Vehicles (Repair)
- 52 FV514 Mechanised Artillery Observation Vehicles. This vehicle incorporates BATES (Battlefield Artillery Target Engagement System), navigation reference system APES (Azimuth Positioning Elevation System) and MSTAR, which is Racal's Manportable Surveillance and Target Acquisition Radar. It can detect and acquire moving targets up to 13 miles away.
- 19 FV515 Battery Command Vehicles.

Each armoured infantry battalion consists of the HQ company, three armoured infantry

companies, and a fire support company.

Each battalion has 63 Warriors:

- 36 Infantry Section Vehicles

- 11 Infantry Section Vehicles with Milan ATGW

- 9 Infantry Command Vehicles

- 4 Mechanised Recovery Vehicles (Repair)

- 3 Mechanised Combat Repair Vehicles.

Each battalion also has eight Scimitar recce vehicles, seven Spartan CVR(T), two Sultan CVR(T), one Samson CVR(T), 20 FV432 command post vehicles, an armoured ambulance and mortar carrier, 23 8-ton trucks and 19 various light vehicles.

The Warrior has a crew of three (commander, gunner and driver) and can seat seven infantry, all their kit and supplies for 48 hours, in the rear.

There are no firing ports on the British Army Warriors, but infantry can fight from the vehicle with the two top hatches open.

The Desert Warrior, which was produced for Kuwait, has five firing ports.



### SPECIFICATIONS

**Designation:** Warrior Mechanised Combat Vehicle

**Length:** 6.34m

**Height:** 2.791m (turret roof)  
1.93m (hull roof)

**Width:** 3.034m

**Ground clearance:** 0.49m

**Ground pressure:** 0.65kg/cm<sup>2</sup>

**Combat weight:** 24.5 tonnes

**Power-weight ratio:** 16.73 kW/t

**Crew:** 3+7

**Range:** 660km (road)

**Speed:** 75km/h max road, 40km/h cross country

**Fording depth:** 1.3m

**Vertical obstacle:** 0.75m

**Trench:** 2.5m

**Gradient:** 60%

**Side slope:** 40%

**Engine:** Perkins CV8 TCA V-8 (550hp at 2,300rpm) diesel

**Transmission:** Allison automatic gearbox with four forward and two reverse gears

**Armament:** 30mm RARDEN cannon and 7.62mm co-axial mg.

The cannon is fed with three-round clips and has a cyclic rate of fire of 80rds/min. Maximum range is 4,000 meters, effective range between 400 and 1,500 meters. APDS-T rounds can penetrate up to 40mm of steel armour at 45°. There is stowage for 228 rounds.

The co-axial weapon is an M240 chain gun with 2,200 rounds and a cyclic rate of fire of 570 rds/min.

**Protection:**

Armour detail is classified, but the hull is aluminium and turret steel. The vehicle has full NBC protection, and there is passive night vision equipment for commander, driver and gunner.

### PRODUCTION

#### 1968-1971

Feasibility studies made by the MoD for a vehicle to replace the FV432 APC

#### 1972-1976

MoD option studies and initial work on Project Definition 1, by the Fighting Vehicle Research and Development Establishment

#### 1977-1979

GKN Sankey (now Alvis Vehicles) chosen as prime contractor for 12 prototypes and full project undertaken, known as MCV 80 (Mechanised Combat Vehicle).

#### 1980

MCV 80, in competition with the American M2 Bradley, chosen to replace FV432

#### 1985

Vehicle given the name Warrior and production contract awarded

#### 1987

First vehicles formally handed over to army

#### 1988

First prototype of Warrior MAOV completed

#### 1994

First of 254 Desert Warriors

produced for Kuwait. This version has firing ports, a Delco turret with 25mm cannon and single-tube TOW ATGW launcher on each side.

■ Alvis is currently developing further versions based on the Desert Warrior for export.

These include 81mm mortar carrier, 105mm light tank, anti-aircraft, versions with various anti-tank missile systems, a load carrier, and vehicles with other turrets, including a 90mm gun. The latest exports model is Warrior 2000 with a Delco 30mm turret fitted