

COMBAT VEHICLE 90 (CV90)

FAMILY OF TRACKED ARMoured VEHICLES



MOST MODERN
ARMoured
VEHICLE FAMILY IN
20-35 TONNE CLASS

VARIANTS FOR A
WIDE RANGE OF
ROLES

LATEST SYSTEMS
TECHNOLOGY

OPERATIONALLY
PROVEN

The Company reserves the right to change these specifications
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COMBAT VEHICLE 90 FAMILY

CV90 is in service with the Swedish, Norwegian, Swiss and Finnish Armies. The CV90 is the most modern armoured vehicle family in the 20-35 tonne class.

It is incorporating the latest stealth technology and equipped with state of the art, digitised CAN bus based information technology network in an open and scalable electronic architecture, called Vehicle Control System (VCS).

A video network with displays at each crew station, combined with independent sights provides the crew with superior battlefield awareness. The extensive Built In Test (BIT) system in VCS, combined with alarms and user guidance to identify and correct faults, improves operational availability and reduces logistic support costs. Additionally, the on-line digital manuals and embedded training reduces training costs.

It can be extended with a Battlefield Management System (BMS), Identification Friend or Foe (IFF) and the Defensive Aid Suite (DAS).

The CV90 has a troop compartment for a crew of eight and is equipped with collective and individual NBC protection. It can also be equipped with Air Condition and an Auxiliary Power Unit.

The CV90 concept provides:

- Tactical and strategic mobility
- Anti-armour capability
- Air defence capability
- Low signature
- High survivability
- Low maintenance costs
- Development potential

CV9030

CV9030 was originally developed to meet the requirements of the Norwegian Army. The chassis has advanced suspension to improve ride comfort and mobility and to facilitate unsurpassed stabilisation of the Bushmaster II cannon in the 30mm two-man turret. It also carries an add-on armour kit.



CV9030 MkII

The CV9030 MkII is a development of the well-proven CV9030 to meet the Swiss and Finnish Armies' requirements. It is equipped with the digitised Vehicle Control System (VCS) and also a fully stabilised 30/40mm Bushmaster II/Mk44 cannon.



CV9035 MkIII

The latest CV90 generation, named CV9035 MkIII, has been developed to provide improved capabilities in the following areas:

- Integration of 30/50mm gun
- Commander's independent sight - "Hunter-Killer"
- Third generation TI camera
- Integration of higher level of protection, including bomblet and mine protection
- Integration of Defensive Aid Suite (DAS)
- High speed data bus
- Higher payload with growth potential





CV90120 Tank

CV90120 Tank has been developed to meet international demand for a lighter main battle tank. It has similar firepower to current main battle tanks and is both cost-effective and gives superior tactical and strategic mobility. The CV90120 Tank fulfils these requirements and additionally provides outstanding survivability through an integrated modular Defensive Aid Suite (DAS) for today's fragmented and multi-spectral battlefield.

CV90120 Tank fires all standard Nato 120mm smooth bore ammunition and is equipped with state of the art technology, including an information technology network (VCS), improving operational capability. The modular Defensive Aid Suite (DAS), including Laser, Radar and Missile Approach warners, is installed. Survivability is enhanced through the Multi-Spectral Aerosol (MSA), active countermeasure system and the top-attack radar, identifying smart indirect munitions.



CV90 AMOS

AMOS (Advanced MOrtar System) is a state of the art, cost-effective mortar system, providing high firepower under full protection. AMOS is a twin-barrel 120mm smooth-bore mortar turret system, which has been jointly developed by Alvis Hägglunds, Sweden, and Patria Weapon Systems, Finland. AMOS is designed to meet indirect firepower requirements at battalion level. AMOS can be mounted on various light armoured vehicle platforms and combat boats.

AMOS has significant direct fire capability.

AMOS has been ordered by the Finnish and Swedish Armies.

CV90 AMOS provides:

- Twin-barrel 120mm
- High rate of fire
- Direct fire capability
- Rapid deployment
- Ballistic and NBC protection
- Low chassis load
- Ample ammunition stowage on-board
- Suitable for all standard 120mm smooth bore ammunition
- Full 360° traverse



**CV9040**

CV9040 is in service with the Swedish Army. It carries an eight man section and is designed to defeat other armoured vehicles and ground troops. It is fitted with a Bofors 40mm cannon. The CV9040 is primarily deployed with the Main Battle Tank in the Swedish Mechanised Brigades.

**CV90FOV**

The Forward Observer Vehicle is the mechanised unit's resource for controlling fire support from artillery and mortars. The vehicle carries an automatic system for calculation and transfer of target co-ordinates, including a sight with a TI and laser range finder. The system is based on an inertial navigation system and provides target co-ordinates in seconds, thus reducing the important reaction times for indirect fire support.

**CV9040C**

The CV9040C has a stabilised turret and additional protection, including mine protection, for use by Swedish troops on international operations.

**CV9040AAV**

The Anti-Aircraft Vehicle version is fitted with a specially adapted sensor set and fire control software air defence at battalion level.

CV9040 AAV is primarily assigned for combating helicopters and close air support aircraft and it is well-suited for engaging other types of aerial and ground targets.

CV90FCV

The Forward Command Vehicle is configured for the requirements of brigade and battalion combat control. It carries a crew of three and has six additional workstations in the rear troop compartment. It provides an armoured combat C3 vehicle designed to accommodate a wide selection of communication and command equipment.

**CV90ARV**

The Armoured Recovery Vehicle is specially adapted to fulfil all requirements of recovery and to support field maintenance operations. It is equipped with a dozer blade and a crane. It also has two separate winches and is capable of applying a 72-tonne line pull in any direction.

CV9030COM

The CV9030 COM is a command and control vehicle based on CV9030 MkII, with four workstations in the rear troop compartment.

