CV90.
Strong. Agile. Evolutionary.
CV90 The most versatile vehicle for all military missions, now and in the future.

**Strong** armoured for crew survivability

**Agile** performs across all terrain

**Evolutionary** designed for scalable upgrades

**Survivability**

The CV90 has one of the most advanced survivability solutions available in the world, providing flexible and modular solutions for any mission requirements. The platform provides crew protection from heavy weaponry including IEDs and anti-tank mines. The CV90 protects occupants from Chemical, Biological, Radiological, and Nuclear (CBRN) threats with its integrated CBRN/HVAC-system.

To meet modern battlefield threats, the vehicle can be fitted with further protection including:

- Armour against shaped charge warheads for example RPG-s
- Defensive Aid Suite (DAS) that classifies targets, gives threat warnings, maneuvering instructions, while simultaneously deploying countermeasures, for hit avoidance.
- The CV90 DAS-system is up-scalable from soft-kill true jammers to highly capable hard-kill system achieving a high degree of survivability even against an advanced opponent
- ADAPTIV camouflage, offering active multi-spectral cloaking, rendering the vehicle appearance to match its environment or to mimic other objects to further increase crew survivability and freedom to move.

**Lethality**

To be the first to fire is crucial. As a first class combat vehicle, the CV90 is compatible with a range of armament to suit any customer requirements. The vehicle is normally fitted with a two-man turret equipped with the well proven 25-35 mm Bushmaster cannon product range. The platform can support different configurations such as manned and unmanned turrets and integration of missile systems. The CV90 incorporates a Munition Programmer for Air Burst Munition (ABM) and has a target-driven gunner Man Machine Interface (MMI) and excellent Anti-Aircraft capabilities.

The Fire Control System autonomously sets:

- Type of ammunition
- Lead- and super elevation angles
- Fuse setting – air burst, impact or delayed detonation
- Burst- and dispersion patterns

This significantly decreases operator workload allowing the gunner to focus and engage on commander determined targets, significantly reducing sensor to shooter time.

The vehicle’s hunter-killer function features an independent sight system for the commander, enabling him to search, engage or hand over targets to the gunner.

**Mobility**

The CV90’s effective protection suite does not render in reduced mobility. Powered by a highly reliable, fuel-efficient high torque V8 diesel engine, the CV90 accomplishes agile sprints in challenging terrain and enduring long-range patrol missions. The vehicle’s road range is constantly improving, with new variants capable of travelling up to 900 km.

The platform’s active damping increases the off-road speed and at the same time benefits to:

- Increasing the gunner’s hit probability and ability to find targets
- Increased life expectancy for sub systems and components
- Higher all-terrain speeds
- Reduced fatigue for crew and squad

**C4ISTAR**

The CV90 represents the future of Armoured Fighting Vehicles (AFV), providing best-in-class, all-weather Intelligence, Surveillance, Target Acquisition and Recognition (ISTAR) capabilities. Its range of variants will allow for conduct sustained, expeditionary, full-spectrum and network-enabled operations with a reduced logistics footprint.

CV90 is fully digitized and General Vehicle Architecture (GVA)-compliant, providing accurate and timely information to support decision-making at all levels. It integrates a range of leading-edge technologies to provide an optimized and lethal ISTAR.

The open and GVA compliant electronic architecture can seamlessly integrate both current and future open C4ISTAR and communication products.

The vehicle C4ISTAR capability can further be upgraded with Battleview 360 which brings an advanced mix between Augmented and Virtual Reality offering 360 degree see through armour with conformal augmented battle management information.
CV90 is a proven solution, under continual development

- 1,280 sold to 7 European user nations, 4 NATO members
- 4.5 million R&D hours invested
- Combat proven in Afghanistan and Liberia
- 15 different CV90 variants in service
- Rubber tracks technology proven in theatre
CV90
Combat Proven

CV90 is designed with a clear vision: to be a vehicle that provides high tactical and strategic mobility, air defence, anti-tank capability, high survivability and protection in any terrain or tactical environment. The CV90 family gives unrivalled performance in the 20-35 tonne class. CV90 has a pedigree of successful worldwide operations including UN and NATO collaborative missions.

Crew survivability is of primary importance to every force. Each aspect of the CV90, from its armour to its driving dynamics, is dedicated to protecting personnel.
Danish Army in Afghanistan

Swedish Army in Liberia and Afghanistan

Norwegian Army in Afghanistan
Selected variants

BAE Systems Hägglunds, in response to customer demand, has created a family of specialist variants designed for specific mission and customer requirements. CV90 is versatile and scalable with new capabilities like ADAPTIV, rubber tracks, active damping, BattleView360 and integrated Active Protection Systems (APS).
The CV90 family

Ready for any mission, the modular CV90, ensures freedom of design for a wide variety of variants. The CV90 family includes:

Turreted
✓ IFV (Infantry Fighting Vehicle) – 30mm, 35mm & 40mm
✓ RECCCE (Reconnaissance)
✓ C2 (Command & Control)
✓ AAV (Anti-Aircraft Vehicle)
✓ Mortar – AMOS 2x120mm & Mjölner 2x120mm
✓ Combat Repair
✓ Forward Observer

Non-turreted
✓ APC & VIP transport
✓ Combat Engineer
✓ CASEVAC
✓ ARV (Armoured Recovery Vehicle)
✓ LOG – (Logistic carrier)
✓ EW (Electronic Warfare)
✓ DTV (Driver Training Vehicle)
✓ Mortar – 81mm

Coming attractions…
✓ Direct Fire – 105mm & 120mm
✓ Engineer
✓ Bridge layer
✓ Artillery – 155mm

CV90120

Equipped with sensor-based protection

The CV90120 provides crews with greater lethality, higher mobility, advanced identification capability and state-of-the-art stealth protection.

With its lightweight design, the CV90120 is more manoeuvrable on the battlefield than traditional tanks; however it can still match them in terms of firepower.

The CV90120 is equipped with a modern 120 mm gun which enables it to handle any contemporary battlefield threats.
In country set up **CV90**

Real partnership – real advantage

To BAE Systems, industrial cooperation is a vital part of the partnerships we are building with our customers – a strong partnership that provides each party with long-term-, and strategic advantages. We have developed a creative and innovative approach toward industrial cooperation including technology transfer, marketing support and support to SME companies. Given the requirements, full development and assembly can be done in the country locally so performed correctly, these are outstanding tools for the development of all involved parties: local industries, the economy in the customer’s countries and the customer themselves, as well as BAE Systems Hägglunds. For more than 20 years we have fulfilled our industrial cooperation commitments on time ahead of schedule. Industrial cooperation projects have been successfully performed with the following countries: Canada, Denmark, Finland, Italy, Malaysia, Norway, Spain, South Korea, Switzerland, The Netherlands, United Kingdom.

**Norway**

The 144 CV90 vehicles for Norway – contract signed in June 2012 - are designed to operate in five configurations, 74 for infantry fighting, 21 for reconnaissance, 15 for command and control, 16 for engineering support, 16 in a multi-role configuration, and two for driver training. BAE Systems Hägglunds has developed a comprehensive partnership with Norwegian industry to develop, produce, and deliver these vehicles. Kongsberg Defence & Aerospace, Nammo Raufoss AS, CHSnor AS, Moelv, Tamek and Ritek AS Levanger are among the companies playing a key role in delivering on the contract.
Across the group of nations operating the CV90, BAE Systems Hägglunds has successfully fulfilled all industrial requirements. BAE Systems’ well-proven industrial model has been implemented for CV90 industrial commitments in Norway, Finland, Switzerland, the Netherlands and Denmark. The value of completed industrial co-operation programmes delivered by BAE Systems as part of CV90 procurements is as follows:

<table>
<thead>
<tr>
<th>IC delivered</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD 999 M</td>
<td>The Netherlands (2013)</td>
</tr>
<tr>
<td>USD 278 M</td>
<td>Denmark (2009)</td>
</tr>
<tr>
<td>USD 204 M</td>
<td>Finland (2009)</td>
</tr>
<tr>
<td>USD 555 M</td>
<td>Switzerland (2006)</td>
</tr>
<tr>
<td>USD 204 M</td>
<td>Norway (2001)</td>
</tr>
</tbody>
</table>

The Netherlands

In 2004, BAE Systems Hägglunds secured the sale of 184 CV90 vehicles to the Dutch Ministry of Defence. In 2005 this was followed up with the sale of 74 BvS10 vehicles. As part of these supply contracts, BAE Systems Hägglunds delivered an Industrial Cooperation package to the Netherlands between 2004 and 2011. We fulfilled 100 percent of the contract originally worth more than EUR 800 million, the largest industrial cooperation contract in the country.

BAE Systems Hägglunds evaluated over 200 local companies to find suitable partners to assist in the completion of the contract. More than 50 were chosen to fulfill a variety of roles.

- Location of Dutch suppliers of partner industries.
Production of the CV90 begins for the Swedish Armed Forces, with the following deliveries. Today the Swedish Armed Forces has 549 CV90 vehicles.

Contract signed with Switzerland for 185 CV9030 vehicles. Finland orders 57 CV9030 vehicles.

In December 2004, The Netherlands signs a contract for 184 CV9035 MkIII and eight CV9035 instruction vehicles. Finland orders more units, bringing the overall quantity to 102. As part of a UN contingent, 13 Swedish CV90s are sent to Liberia.

The CV90 is engaged in combat operations for the first time when the Norwegian Army deploys units with 2nd Battalion. The vehicles are used during Operation Harekate Yolo and when Norwegian commandos respond to a Taliban attack on Afghan National Army forces in the Ghowzmach district.
CV90s are used by ISAF forces of the Norwegian Army’s Telemark Battalion during Operation Karez in the Badghis Province.

2009
Sweden deploys CV9040s to Afghanistan.

2010
Denmark deploys 10 CV9035 DK to Afghanistan as reinforcements in Helmand Province. The units are from the Danish Royal Lifeguard Regiment, based in the Northern part of Seeland.

Norway decides to modernize their CV90 fleet, giving Norway 144 state-of-the-art combat vehicles. A smart long term programme including both new and used vehicles.

2011
“ADAPTIV” is launched, a patented technology based on sheets of hexagonal “pixels” that can change temperature very rapidly and allows a vehicle to blend into its surroundings. On-board cameras pick up the background scenery and display that infra-red image on the vehicle, allowing even a moving tank to match its surroundings. The Swedish Defence Materiel Administration (FMV) funds part of the work.

The Norwegian Defence Logistics Organisation and BAE Systems signs a contract for the production of the 41 new vehicles as well as upgrades to 103 of the Army’s existing fleet of CV9030s. The upgrades include enhanced capabilities for protection, survivability, situational awareness, intelligence, and interoperability.

The Swedish government contracts BAE Systems to refurbish 262 CV90 for the Swedish Army and to install the vehicle mounted mortar system “Mjölnir” on 40 CV90s in the Swedish Army fleet. The Dutch government contracts BAE Systems Hägglunds for testing and verification of Active Protection Systems on its CV90 Infantry Fighting Vehicles.

2012
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2016
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20XX
Development of CV90 will continue.
3
7
4.5
15
1280
70 000

MILLION KILOMETERS COVERED BY CV90 FLEET

CV90 USER NATIONS IN THE CLUB

MILLION R&D HOURS INVESTED

DIFFERENT CV90 VARIANTS IN SERVICE

VEHICLES SOLD

COMBAT DAYS