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SIGHT AND FIRE CONTROL SYSTEM UTAAS

Saab has designed and delivered Fire Control System (FCS) packages for Infantry Fighting Vehicles and Main Battle Tanks for many years. Today the Universal Tank and Anti-Aircraft Fire Control System (UTAAS) is in service in Sweden, Norway, Switzerland and Finland and production is in progress for the latest customers the Netherlands and Denmark, all with the Combat Vehicle 90.

Simple, versatile and accurate

UTAAS is a versatile sight and Fire Control System for tanks and combat vehicles. It provides high hit probability against all ground targets, as well as against helicopters and high-speed aircraft. Its simple operating principles, user-friendly MMI and ease of maintenance make it suitable for use in a conscript army.

The modular design of UTAAS gives the user a variety of performance options and upgrading possibilities. The beam-paths for all channels go through the same aperture, giving good system stability and no need for realignment.

The system can be customised for various weapon systems and integrated with Command and Control systems. It also has an interface to a smart ammunition programming unit.

Independent line-of-sight

This principle enables the operator to retain the target in the centre of the reticle during the entire aiming and laser range-finding sequence. No re-aiming is needed. Gun laying is automatically controlled by the Fire Control Computer.

The design of the top module allows large deflection angles in both azimuth and elevation to be achieved. These are essential for effective combating of fast aircraft.

Options

The low-hazard laser rangefinder has a variable repetition frequency which can be configured for various operational requirements. Various methods of anti-laser eye protection can be employed in the sight.

For night and all-weather operation the system can be equipped with a range of third generation thermal imagers.

In most applications an extra monitor is provided enabling the commander to fire.



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UTAAS on CV9030



UTAAS on CV9040 LKV



UTAAS on CV9030 Mk II

TECHNICAL DATA

COMMON FEATURES

- Independent line-of-sight (LoS).
- Gyro-stabilised gun and LoS permits firing on the move.
- Silent search mode.
- Combined ground and air target capability.
- High lethality against ground targets.
- Computer panel for manual data input (ambient temperature, air pressure, powder temperature, wind speed, muzzle velocity correction, etc.).

- Interface to vehicle Command, Control and Communication system.
- Serial communication interface for computerised testing and fault tracing.
- Lead angle computed considering: target range and movements, ammunition type, inputs from data panel, trunnion tilt, vehicle movements, gun jump.
- Up to 12 different ammunition types with individually programmable muzzle velocity and gun jump corrections.

CV9035 APPLICATION

- High hit probability against air targets at ranges up to 2000 m.
- Gun stabilisation better than 0.5 mils at 30 km/h on APG track.
- Maximum firing range: 5000 m.
- LoS deflection range: Elevation -10° to +45°, Azimuth ±18°.
- Laser rangefinder: 1.54 µm, PRF 4 Hz.
- Day channel: magnification 8x, FoV 8°, direct 1:1 view.
- Third generation Thermal Imager.